# Appendix M: WSP - OD Matrices from the NGTM

# Run 0 - 2022 Baseline/ 2039 Do Minimum Policy On-Destination Matrices

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60057 | 60011 | 4924 | 2718 | C1-M62 WC1-M62 West |
| E | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizabe |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 251 | 275 | 445 | 8 | | | 979 |
| B | 219 | 0 | 129 | 0 | 374 | | | 722 |
| C | 239 | 103 | 0 | 183 | 70 | | | 595 |
| D | 238 | 0 | 84 | 2 | 88 | | | 412 |
| E | 2 | 201 | 55 | 24 | 0 | | | 282 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 698 | 555 | 543 | 654 | 540 | | | 2990 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 188 | 223 | 339 | 7 | | | 757 |
| B | 149 | 0 | 47 | 0 | 249 | | | 445 |
| C | 200 | 81 | 0 | 145 | 58 | | | 484 |
| D | 142 | 0 | 60 | 0 | 52 | | | 254 |
| E | 1 | 124 | 33 | 13 | 0 | | | 171 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 492 | 393 | 363 | 497 | 366 | | | 2111 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 49 | 35 | 1 | | | 139 |
| B | 34 | 0 | 51 | 0 | 58 | | | 143 |
| C | 35 | 4 | 0 | 33 | 10 | | | 82 |
| D | 61 | 0 | 16 | 1 | 6 | | | 84 |
| E | 1 | 13 | 7 | 2 | 0 | | | 23 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 131 | 71 | 123 | 71 | 75 | | | 471 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 3 | 71 | 0 | | | 83 |
| B | 36 | 0 | 31 | 0 | 67 | | | 134 |
| C | 4 | 18 | 0 | 5 | 2 | | | 29 |
| D | 35 | 0 | 8 | 1 | 30 | | | 74 |
| E | 0 | 64 | 15 | 9 | 0 | | | 88 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 91 | 57 | 86 | 99 | | | 408 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 189 | 254 | 232 | 0 | | | 675 |
| B | 183 | 0 | 76 | 0 | 114 | | | 373 |
| C | 197 | 80 | 0 | 164 | 41 | | | 482 |
| D | 210 | 0 | 95 | 8 | 74 | | | 387 |
| E | 13 | 104 | 61 | 28 | 0 | | | 206 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 603 | 373 | 486 | 432 | 229 | | | 2123 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 140 | 222 | 140 | 0 | | | 502 |
| B | 120 | 0 | 57 | 0 | 62 | | | 239 |
| C | 164 | 66 | 0 | 101 | 32 | | | 363 |
| D | 113 | 0 | 54 | 0 | 16 | | | 183 |
| E | 10 | 39 | 41 | 4 | 0 | | | 94 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 407 | 245 | 374 | 245 | 110 | | | 1381 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 24 | 48 | 0 | | | 105 |
| B | 35 | 0 | 13 | 0 | 10 | | | 58 |
| C | 23 | 8 | 0 | 41 | 5 | | | 77 |
| D | 47 | 0 | 31 | 1 | 11 | | | 90 |
| E | 3 | 16 | 9 | 3 | 0 | | | 31 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 108 | 57 | 77 | 93 | 26 | | | 361 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 8 | 44 | 0 | | | 68 |
| B | 28 | 0 | 6 | 0 | 42 | | | 76 |
| C | 10 | 6 | 0 | 22 | 4 | | | 42 |
| D | 50 | 0 | 10 | 7 | 47 | | | 114 |
| E | 0 | 49 | 11 | 21 | 0 | | | 81 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 88 | 71 | 35 | 94 | 93 | | | 381 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 251 | 236 | 281 | 0 | | | 768 |
| B | 178 | 0 | 196 | 0 | 262 | | | 636 |
| C | 290 | 95 | 0 | 175 | 57 | | | 617 |
| D | 308 | 0 | 127 | 0 | 56 | | | 491 |
| E | 22 | 199 | 64 | 13 | 0 | | | 298 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 798 | 545 | 623 | 469 | 375 | | | 2810 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 210 | 216 | 260 | 0 | | | 686 |
| B | 138 | 0 | 165 | 0 | 196 | | | 499 |
| C | 274 | 76 | 0 | 133 | 52 | | | 535 |
| D | 260 | 0 | 96 | 0 | 37 | | | 393 |
| E | 21 | 156 | 57 | 7 | 0 | | | 241 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 693 | 442 | 534 | 400 | 285 | | | 2354 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 17 | 11 | 0 | | | 57 |
| B | 28 | 0 | 27 | 0 | 18 | | | 73 |
| C | 15 | 19 | 0 | 25 | 4 | | | 63 |
| D | 30 | 0 | 26 | 0 | 7 | | | 63 |
| E | 1 | 17 | 3 | 0 | 0 | | | 21 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 65 | 73 | 36 | 29 | | | 277 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 3 | 10 | 0 | | | 25 |
| B | 12 | 0 | 4 | 0 | 48 | | | 64 |
| C | 1 | 0 | 0 | 17 | 1 | | | 19 |
| D | 18 | 0 | 5 | 0 | 12 | | | 35 |
| E | 0 | 26 | 4 | 6 | 0 | | | 36 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 38 | 16 | 33 | 61 | | | 179 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60010 | 2814 | 2814 | 60010 | *045 Manchester Road* |
| B | 60003 | 2814 | 2814 | 60003 | *045 Manchester Road* |
| C | 60076 | 2814 | 2814 | 60076 | |
| D | 60008 | 2814 | 2814 | 60008 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 368 | 100 | | | | 503 |
| B | 80 | 0 | 81 | 378 | | | | 539 |
| C | 229 | 18 | 0 | 48 | | | | 295 |
| D | 47 | 230 | 35 | 0 | | | | 313 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 357 | 284 | 484 | 526 | | | | 1650 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 297 | 86 | | | | 408 |
| B | 55 | 0 | 63 | 248 | | | | 366 |
| C | 200 | 12 | 0 | 36 | | | | 248 |
| D | 39 | 135 | 22 | 0 | | | | 195 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 294 | 172 | 381 | 370 | | | | 1217 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 48 | 13 | | | | 63 |
| B | 10 | 0 | 18 | 47 | | | | 75 |
| C | 19 | 4 | 0 | 4 | | | | 27 |
| D | 7 | 16 | 4 | 0 | | | | 27 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 35 | 23 | 70 | 63 | | | | 192 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 21 | 1 | | | | 30 |
| B | 15 | 0 | 0 | 84 | | | | 99 |
| C | 10 | 2 | 0 | 8 | | | | 20 |
| D | 2 | 79 | 9 | 0 | | | | 90 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 27 | 88 | 30 | 93 | | | | 239 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 213 | 47 | | | | 290 |
| B | 51 | 0 | 13 | 167 | | | | 231 |
| C | 240 | 17 | 0 | 35 | | | | 292 |
| D | 46 | 160 | 25 | 0 | | | | 231 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 337 | 207 | 251 | 249 | | | | 1044 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 164 | 39 | | | | 220 |
| B | 32 | 0 | 9 | 70 | | | | 110 |
| C | 178 | 7 | 0 | 27 | | | | 212 |
| D | 37 | 69 | 20 | 0 | | | | 126 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 248 | 94 | 192 | 135 | | | | 669 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 23 | 7 | | | | 34 |
| B | 7 | 0 | 3 | 17 | | | | 27 |
| C | 31 | 6 | 0 | 4 | | | | 41 |
| D | 8 | 21 | 3 | 0 | | | | 32 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 46 | 31 | 29 | 28 | | | | 134 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 25 | 0 | | | | 34 |
| B | 12 | 0 | 1 | 81 | | | | 94 |
| C | 29 | 3 | 0 | 4 | | | | 37 |
| D | 1 | 70 | 2 | 0 | | | | 73 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 42 | 82 | 28 | 85 | | | | 237 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 263 | 35 | | | | 326 |
| B | 76 | 0 | 24 | 275 | | | | 375 |
| C | 471 | 92 | 0 | 67 | | | | 630 |
| D | 73 | 180 | 41 | 0 | | | | 295 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 620 | 300 | 328 | 377 | | | | 1625 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 242 | 26 | | | | 286 |
| B | 61 | 0 | 17 | 208 | | | | 286 |
| C | 418 | 81 | 0 | 49 | | | | 549 |
| D | 63 | 142 | 37 | 0 | | | | 241 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 542 | 241 | 296 | 283 | | | | 1362 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 17 | 8 | | | | 27 |
| B | 9 | 0 | 4 | 15 | | | | 28 |
| C | 30 | 10 | 0 | 6 | | | | 47 |
| D | 5 | 10 | 3 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 45 | 22 | 24 | 29 | | | | 120 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 2 | 1 | | | | 11 |
| B | 6 | 0 | 2 | 52 | | | | 60 |
| C | 20 | 0 | 0 | 12 | | | | 32 |
| D | 5 | 28 | 2 | 0 | | | | 35 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 36 | 6 | 65 | | | | 139 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.96 | 0 | 1.99 | 0 | | | | 3.95 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Hareshill Road / Hill Top Road**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | *Harehills Rd EB* |
| B | 60036 | 60031 | 60031 | 60036 | *Hill Top Road* |
| C | 60032 | 7454 | 7454 | 60032 | *Harehills Rd SB* |
| D | 20426 | 7454 | 7454 | 20426 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 140 | 283 | 0 | | | | 423 |
| B | 69 | 0 | 29 | 0 | | | | 98 |
| C | 444 | 82 | 0 | 0 | | | | 526 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 513 | 222 | 312 | 0 | | | | 1047 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 86 | 191 | 0 | | | | 277 |
| B | 14 | 0 | 4 | 0 | | | | 18 |
| C | 311 | 58 | 0 | 0 | | | | 369 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 325 | 144 | 195 | 0 | | | | 664 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 24 | 0 | | | | 31 |
| B | 3 | 0 | 3 | 0 | | | | 6 |
| C | 60 | 4 | 0 | 0 | | | | 64 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 63 | 11 | 27 | 0 | | | | 101 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 68 | 0 | | | | 115 |
| B | 52 | 0 | 22 | 0 | | | | 74 |
| C | 73 | 20 | 0 | 0 | | | | 93 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 125 | 67 | 90 | 0 | | | | 282 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 72 | 180 | 0 | | | | 252 |
| B | 89 | 0 | 51 | 0 | | | | 140 |
| C | 199 | 50 | 0 | 0 | | | | 249 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 288 | 122 | 231 | 0 | | | | 641 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 104 | 0 | | | | 132 |
| B | 40 | 0 | 22 | 0 | | | | 62 |
| C | 122 | 14 | 0 | 0 | | | | 136 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 162 | 42 | 126 | 0 | | | | 330 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 26 | 0 | | | | 33 |
| B | 10 | 0 | 6 | 0 | | | | 16 |
| C | 22 | 6 | 0 | 0 | | | | 28 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 13 | 32 | 0 | | | | 77 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 50 | 0 | | | | 87 |
| B | 39 | 0 | 23 | 0 | | | | 62 |
| C | 55 | 30 | 0 | 0 | | | | 85 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 67 | 73 | 0 | | | | 234 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 222 | 0 | | | | 274 |
| B | 113 | 0 | 75 | 0 | | | | 188 |
| C | 345 | 33 | 0 | 0 | | | | 378 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 458 | 85 | 297 | 0 | | | | 840 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 190 | 0 | | | | 213 |
| B | 92 | 0 | 53 | 0 | | | | 145 |
| C | 264 | 20 | 0 | 0 | | | | 284 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 356 | 43 | 243 | 0 | | | | 642 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 11 | 0 | | | | 13 |
| B | 2 | 0 | 7 | 0 | | | | 9 |
| C | 28 | 1 | 0 | 0 | | | | 29 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 3 | 18 | 0 | | | | 51 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 21 | 0 | | | | 48 |
| B | 19 | 0 | 15 | 0 | | | | 34 |
| C | 53 | 12 | 0 | 0 | | | | 65 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 39 | 36 | 0 | | | | 147 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Hareshill Road / Pilsworth Road**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 128 | 239 | | | | | 368 |
| | B | 258 | 0 | 184 | | | | | 442 |
| | C | 350 | 162 | 0 | | | | | 512 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 608 | 290 | 424 | | | | | 1322 |

*By Vehicle Type:*

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 104 | 136 | | | | | 240 |
| | B | 213 | 0 | 141 | | | | | 355 |
| | C | 207 | 118 | 0 | | | | | 325 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 421 | 222 | 277 | | | | | 920 |

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 10 | 7 | | | | | 17 |
| | B | 23 | 0 | 24 | | | | | 47 |
| | C | 43 | 19 | 0 | | | | | 62 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 66 | 29 | 31 | | | | | 126 |

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 15 | 96 | | | | | 111 |
| | B | 22 | 0 | 19 | | | | | 40 |
| | C | 100 | 25 | 0 | | | | | 124 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 121 | 40 | 115 | | | | | 276 |

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 0 | 0 | | | | | 0 |
| | B | 0 | 0 | 0 | | | | | 0 |
| | C | 0 | 0 | 0 | | | | | 0 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 190 | 159 | | | | | 349 |
| | B | 155 | 0 | 95 | | | | | 250 |
| | C | 169 | 118 | 0 | | | | | 287 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 324 | 308 | 254 | | | | | 885 |

*By Vehicle Type:*

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 139 | 73 | | | | | 212 |
| | B | 111 | 0 | 60 | | | | | 171 |
| | C | 83 | 78 | 0 | | | | | 161 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 194 | 218 | 133 | | | | | 545 |

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 23 | 19 | | | | | 42 |
| | B | 17 | 0 | 14 | | | | | 32 |
| | C | 14 | 18 | 0 | | | | | 32 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 32 | 41 | 33 | | | | | 105 |

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 28 | 67 | | | | | 95 |
| | B | 27 | 0 | 20 | | | | | 47 |
| | C | 72 | 22 | 0 | | | | | 94 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 99 | 50 | 87 | | | | | 235 |

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 0 | 0 | | | | | 0 |
| | B | 0 | 0 | 0 | | | | | 0 |
| | C | 0 | 0 | 0 | | | | | 0 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 0 | 0 | 0 | | | | | 0 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 262 | 157 | | | | | 420 |
| | B | 160 | 0 | 116 | | | | | 276 |
| | C | 264 | 194 | 0 | | | | | 458 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 424 | 456 | 273 | | | | | 1153 |

*By Vehicle Type:*

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 240 | 114 | | | | | 354 |
| | B | 133 | 0 | 99 | | | | | 232 |
| | C | 185 | 171 | 0 | | | | | 355 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 318 | 410 | 213 | | | | | 941 |

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 15 | 5 | | | | | 20 |
| | B | 6 | 0 | 8 | | | | | 14 |
| | C | 13 | 17 | 0 | | | | | 31 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 19 | 33 | 13 | | | | | 65 |

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 7 | 38 | | | | | 45 |
| | B | 21 | 0 | 9 | | | | | 30 |
| | C | 66 | 6 | 0 | | | | | 72 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 87 | 13 | 47 | | | | | 147 |

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 0 | 0 | | | | | 0 |
| | B | 0 | 0 | 0 | | | | | 0 |
| | C | 0 | 0 | 0 | | | | | 0 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 0 | 0 | 0 | | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Pilsworth Road / A58 Bury St**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 495 | 117 | | | | | 612 |
| B | 611 | 0 | 318 | | | | | 928 |
| C | 104 | 271 | 0 | | | | | 375 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 715 | 766 | 435 | | | | | 1915 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 369 | 101 | | | | | 470 |
| B | 438 | 0 | 242 | | | | | 680 |
| C | 84 | 219 | 0 | | | | | 303 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 522 | 588 | 344 | | | | | 1454 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 11 | | | | | 89 |
| B | 92 | 0 | 25 | | | | | 117 |
| C | 15 | 21 | 0 | | | | | 36 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 107 | 98 | 36 | | | | | 241 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 5 | | | | | 44 |
| B | 71 | 0 | 30 | | | | | 102 |
| C | 5 | 13 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 76 | 52 | 35 | | | | | 163 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 28 | 20 | | | | | 57 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 485 | 66 | | | | | 551 |
| B | 485 | 0 | 234 | | | | | 718 |
| C | 81 | 265 | 0 | | | | | 347 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 566 | 750 | 300 | | | | | 1616 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 364 | 53 | | | | | 417 |
| B | 355 | 0 | 167 | | | | | 522 |
| C | 64 | 199 | 0 | | | | | 263 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 419 | 563 | 220 | | | | | 1202 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 64 | 9 | | | | | 73 |
| B | 70 | 0 | 25 | | | | | 95 |
| C | 10 | 25 | 0 | | | | | 35 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 80 | 89 | 34 | | | | | 203 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 4 | | | | | 51 |
| B | 50 | 0 | 21 | | | | | 72 |
| C | 7 | 23 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 70 | 25 | | | | | 153 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.94 | 27.94 | 19.88 | | | | | 57.76 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 517 | 74 | | | | | 591 |
| B | 547 | 0 | 271 | | | | | 818 |
| C | 137 | 310 | 0 | | | | | 446 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 684 | 827 | 345 | | | | | 1855 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 470 | 68 | | | | | 538 |
| B | 487 | 0 | 221 | | | | | 708 |
| C | 127 | 271 | 0 | | | | | 398 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 613 | 741 | 289 | | | | | 1644 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 5 | | | | | 37 |
| B | 40 | 0 | 20 | | | | | 60 |
| C | 9 | 19 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 51 | 25 | | | | | 124 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 1 | | | | | 8 |
| B | 13 | 0 | 10 | | | | | 22 |
| C | 1 | 1 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 14 | 9 | 11 | | | | | 33 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 20 | | | | | 28 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.92 | 25.86 | 19.8 | | | | | 53.58 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Pilsworth Road / Heywood Distribution Centre**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | *Pilsworth Rd NB* |
| B | 20430 | 7459 | 7459 | 20430 | *ywood Distribution Cer* |
| C | 2813 | 7459 | 7459 | 2813 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 219 | 288 | | | | | 507 |
| B | 78 | 0 | 80 | | | | | 158 |
| C | 451 | 158 | 0 | | | | | 608 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 529 | 377 | 368 | | | | | 1274 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 130 | 225 | | | | | 355 |
| B | 16 | 0 | 15 | | | | | 31 |
| C | 331 | 90 | 0 | | | | | 421 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 346 | 220 | 240 | | | | | 807 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 10 | | | | | 23 |
| B | 10 | 0 | 7 | | | | | 17 |
| C | 54 | 12 | 0 | | | | | 66 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 64 | 25 | 17 | | | | | 106 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 53 | | | | | 129 |
| B | 53 | 0 | 58 | | | | | 110 |
| C | 66 | 56 | 0 | | | | | 121 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 118 | 131 | 111 | | | | | 360 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 134 | 243 | | | | | 378 |
| B | 128 | 0 | 105 | | | | | 234 |
| C | 244 | 80 | 0 | | | | | 324 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 373 | 214 | 349 | | | | | 935 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 168 | | | | | 210 |
| B | 55 | 0 | 45 | | | | | 100 |
| C | 161 | 33 | 0 | | | | | 194 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 216 | 75 | 212 | | | | | 504 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 29 | | | | | 47 |
| B | 17 | 0 | 13 | | | | | 30 |
| C | 23 | 8 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 27 | 42 | | | | | 109 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 47 | | | | | 121 |
| B | 56 | 0 | 48 | | | | | 104 |
| C | 61 | 38 | 0 | | | | | 99 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 117 | 112 | 95 | | | | | 323 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 325 | | | | | 386 |
| B | 148 | 0 | 94 | | | | | 242 |
| C | 368 | 55 | 0 | | | | | 424 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 516 | 116 | 420 | | | | | 1052 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 283 | | | | | 307 |
| B | 118 | 0 | 71 | | | | | 189 |
| C | 298 | 20 | 0 | | | | | 318 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 416 | 44 | 354 | | | | | 814 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 17 | | | | | 21 |
| B | 9 | 0 | 3 | | | | | 12 |
| C | 16 | 3 | 0 | | | | | 19 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 25 | 7 | 20 | | | | | 52 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 25 | | | | | 57 |
| B | 21 | 0 | 20 | | | | | 41 |
| C | 54 | 32 | 0 | | | | | 87 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 76 | 64 | 45 | | | | | 185 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Pilsworth Road / JPA1.1 & SHDA employment**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 60026 | 60026 | 7459 | *Pilsworth Rd SB* |
| B | 60027 | 60026 | 60026 | 60027 | *SHDA* |
| C | 60024 | 60026 | 60026 | 60024 | *Pilsworth Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 529 | | | | | 529 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 507 | 0 | 0 | | | | | 507 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 507 | 0 | 529 | | | | | 1036 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 346 | | | | | 346 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 355 | 0 | 0 | | | | | 355 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 355 | 0 | 346 | | | | | 701 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 64 | | | | | 64 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 23 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 23 | 0 | 64 | | | | | 87 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 118 | | | | | 118 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 129 | 0 | 0 | | | | | 129 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 129 | 0 | 118 | | | | | 247 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 373 | | | | | 373 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 378 | 0 | 0 | | | | | 378 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 378 | 0 | 373 | | | | | 750 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 216 | | | | | 216 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 210 | 0 | 0 | | | | | 210 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 210 | 0 | 216 | | | | | 426 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 40 | | | | | 40 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 47 | 0 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 0 | 40 | | | | | 87 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 117 | | | | | 117 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 121 | 0 | 0 | | | | | 121 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 0 | 117 | | | | | 238 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 516 | | | | | 516 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 386 | 0 | 0 | | | | | 386 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 386 | 0 | 516 | | | | | 902 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 416 | | | | | 416 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 307 | 0 | 0 | | | | | 307 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 307 | 0 | 416 | | | | | 723 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 25 | | | | | 25 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 21 | 0 | 0 | | | | | 21 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 21 | 0 | 25 | | | | | 46 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 76 | | | | | 76 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 57 | 0 | 0 | | | | | 57 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 0 | 76 | | | | | 133 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **3 Arrows (Pilsworth Road / Moss Hall Road - South)**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60024 | 2037 | 2037 | 60024 | *Pilsworth Rd WB* |
| B | 60070 | 2037 | 2037 | 60070 | *Moss Hall Rd NB* |
| C | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 493 | | | | | 529 |
| B | 40 | 0 | 228 | | | | | 267 |
| C | 467 | 168 | 0 | | | | | 636 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 507 | 204 | 721 | | | | | 1432 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 322 | | | | | 346 |
| B | 23 | 0 | 191 | | | | | 214 |
| C | 333 | 139 | 0 | | | | | 471 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 355 | 163 | 513 | | | | | 1031 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 62 | | | | | 64 |
| B | 2 | 0 | 27 | | | | | 29 |
| C | 21 | 16 | 0 | | | | | 37 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 23 | 18 | 89 | | | | | 130 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 109 | | | | | 118 |
| B | 15 | 0 | 10 | | | | | 25 |
| C | 114 | 13 | 0 | | | | | 127 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 129 | 23 | 119 | | | | | 270 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 341 | | | | | 373 |
| B | 34 | 0 | 134 | | | | | 169 |
| C | 343 | 146 | 0 | | | | | 489 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 378 | 177 | 476 | | | | | 1031 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 197 | | | | | 216 |
| B | 16 | 0 | 92 | | | | | 108 |
| C | 194 | 93 | 0 | | | | | 287 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 210 | 112 | 289 | | | | | 611 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 35 | | | | | 40 |
| B | 7 | 0 | 13 | | | | | 20 |
| C | 40 | 16 | 0 | | | | | 56 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 21 | 48 | | | | | 116 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 109 | | | | | 117 |
| B | 11 | 0 | 29 | | | | | 40 |
| C | 109 | 37 | 0 | | | | | 146 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 44 | 138 | | | | | 304 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 488 | | | | | 516 |
| B | 50 | 0 | 195 | | | | | 245 |
| C | 336 | 160 | 0 | | | | | 496 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 386 | 188 | 683 | | | | | 1257 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 399 | | | | | 416 |
| B | 45 | 0 | 178 | | | | | 223 |
| C | 262 | 130 | 0 | | | | | 392 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 307 | 147 | 577 | | | | | 1031 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 24 | | | | | 25 |
| B | 2 | 0 | 9 | | | | | 11 |
| C | 19 | 10 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 21 | 11 | 33 | | | | | 65 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 66 | | | | | 76 |
| B | 2 | 0 | 8 | | | | | 11 |
| C | 55 | 20 | 0 | | | | | 75 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 30 | 74 | | | | | 161 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Fowler Welch (Pilsworth Road / Moss Hall Road - North)**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7460 | 2038 | 2038 | 7460 | *Moss Hall Rd NB* |
| B | 60000 | 2038 | 2038 | 60000 | *Pilsworth Road* |
| C | 3193 | 2038 | 2038 | 3193 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 638 | 84 | | | | | 722 |
| B | 390 | 0 | 81 | | | | | 471 |
| C | 261 | 60 | 0 | | | | | 321 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 651 | 698 | 165 | | | | | 1513 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 468 | 39 | | | | | 507 |
| B | 251 | 0 | 60 | | | | | 310 |
| C | 226 | 39 | 0 | | | | | 265 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 476 | 507 | 98 | | | | | 1082 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 55 | 33 | | | | | 88 |
| B | 22 | 0 | 8 | | | | | 30 |
| C | 20 | 13 | 0 | | | | | 33 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 41 | 68 | 42 | | | | | 150 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 115 | 12 | | | | | 127 |
| B | 118 | 0 | 13 | | | | | 131 |
| C | 16 | 7 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 133 | 122 | 25 | | | | | 281 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 360 | 130 | | | | | 490 |
| B | 363 | 0 | 72 | | | | | 435 |
| C | 138 | 58 | 0 | | | | | 196 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 501 | 418 | 202 | | | | | 1121 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 187 | 106 | | | | | 293 |
| B | 184 | 0 | 56 | | | | | 240 |
| C | 103 | 49 | 0 | | | | | 152 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 287 | 235 | 162 | | | | | 684 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 13 | | | | | 48 |
| B | 38 | 0 | 10 | | | | | 48 |
| C | 18 | 7 | 0 | | | | | 25 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 42 | 23 | | | | | 121 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 139 | 11 | | | | | 150 |
| B | 141 | 0 | 6 | | | | | 148 |
| C | 17 | 2 | 0 | | | | | 19 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 158 | 141 | 17 | | | | | 316 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 457 | 225 | | | | | 682 |
| B | 324 | 0 | 140 | | | | | 464 |
| C | 180 | 49 | 0 | | | | | 229 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 504 | 505 | 365 | | | | | 1374 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 368 | 209 | | | | | 577 |
| B | 239 | 0 | 122 | | | | | 360 |
| C | 156 | 45 | 0 | | | | | 201 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 395 | 413 | 331 | | | | | 1139 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 7 | | | | | 34 |
| B | 18 | 0 | 16 | | | | | 35 |
| C | 10 | 4 | 0 | | | | | 14 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 29 | 31 | 23 | | | | | 83 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 9 | | | | | 71 |
| B | 67 | 0 | 2 | | | | | 69 |
| C | 13 | 0 | 0 | | | | | 13 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 80 | 62 | 11 | | | | | 152 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 4918 | 4918 | 7546 | *TC 11- Pilsworth Rd E* |
| B | 3001 | 4919 | 4918 | 3000 | *JTC 11 - M66 SB Off* |
| C | 60000 | 4919 | 4919 | 60000 | *TC 11 - Pilsworth Rd W* |
| D | 2999 | 4918 | 4919 | 2998 | *JTC 11 - M66 NB Off* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 318 | 174 | 290 | | | | 782 |
| B | 452 | 0 | 41 | 0 | | | | 493 |
| C | 362 | 125 | 0 | 210 | | | | 697 |
| D | 536 | 0 | 255 | 0 | | | | 791 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1350 | 443 | 470 | 500 | | | | 2763 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 243 | 146 | 214 | | | | 603 |
| B | 377 | 0 | 41 | 0 | | | | 418 |
| C | 305 | 106 | 0 | 96 | | | | 507 |
| D | 435 | 0 | 123 | 0 | | | | 558 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1117 | 349 | 310 | 310 | | | | 2086 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 49 | 7 | 64 | | | | 120 |
| B | 45 | 0 | 0 | 0 | | | | 45 |
| C | 40 | 5 | 0 | 23 | | | | 68 |
| D | 58 | 0 | 22 | 0 | | | | 80 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 143 | 54 | 29 | 87 | | | | 313 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 21 | 12 | | | | 59 |
| B | 30 | 0 | 0 | 0 | | | | 30 |
| C | 17 | 14 | 0 | 91 | | | | 122 |
| D | 43 | 0 | 110 | 0 | | | | 153 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 90 | 40 | 131 | 103 | | | | 364 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 308 | 198 | 296 | | | | 802 |
| B | 320 | 0 | 2 | 0 | | | | 322 |
| C | 180 | 49 | 0 | 188 | | | | 417 |
| D | 318 | 0 | 233 | 0 | | | | 551 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 818 | 357 | 433 | 484 | | | | 2092 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 238 | 169 | 208 | | | | 615 |
| B | 246 | 0 | 2 | 0 | | | | 248 |
| C | 158 | 24 | 0 | 52 | | | | 234 |
| D | 218 | 0 | 67 | 0 | | | | 285 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 622 | 262 | 238 | 260 | | | | 1382 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 17 | 42 | | | | 99 |
| B | 40 | 0 | 0 | 0 | | | | 40 |
| C | 13 | 8 | 0 | 21 | | | | 42 |
| D | 49 | 0 | 31 | 0 | | | | 80 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 102 | 48 | 48 | 63 | | | | 261 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 12 | 46 | | | | 88 |
| B | 34 | 0 | 0 | 0 | | | | 34 |
| C | 9 | 17 | 0 | 115 | | | | 141 |
| D | 51 | 0 | 135 | 0 | | | | 186 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 47 | 147 | 161 | | | | 449 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 348 | 249 | 431 | | | | 1028 |
| B | 303 | 0 | 32 | 0 | | | | 335 |
| C | 241 | 91 | 0 | 173 | | | | 505 |
| D | 439 | 0 | 183 | 0 | | | | 622 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 983 | 439 | 464 | 604 | | | | 2490 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 318 | 222 | 408 | | | | 948 |
| B | 270 | 0 | 32 | 0 | | | | 302 |
| C | 219 | 82 | 0 | 112 | | | | 413 |
| D | 338 | 0 | 106 | 0 | | | | 444 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 827 | 400 | 360 | 520 | | | | 2107 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 17 | 20 | | | | 55 |
| B | 25 | 0 | 0 | 0 | | | | 25 |
| C | 12 | 9 | 0 | 9 | | | | 30 |
| D | 45 | 0 | 18 | 0 | | | | 63 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 82 | 27 | 35 | 29 | | | | 173 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 10 | 3 | | | | 25 |
| B | 8 | 0 | 0 | 0 | | | | 8 |
| C | 10 | 0 | 0 | 52 | | | | 62 |
| D | 56 | 0 | 59 | 0 | | | | 115 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 12 | 69 | 55 | | | | 210 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | *C 12 - Rochdale Road* |
| B | 3004 | 5568 | 4914 | 3005 | *JTC 12 - M66 SB Off* |
| C | 22097 | 5568 | 4916 | 20097 | *TC 12 - Bury New Roa* |
| D | 2039 | 4917 | 4916 | 2039 | *TC 12 - Bury New Roa* |
| E | 3002 | 3412 | 3413 | 3003 | *12 - M66 N\|12 - M66 NB Of* |
| F | 20432 | 3412 | 3412 | 20432 | *12 - Wate\| 12 - Waterfold* |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 125 | 95 | 313 | 1157 | 44 | | 1734 |
| B | 209 | 0 | 21 | 327 | 0 | 28 | | 585 |
| C | 55 | 3 | 0 | 7 | 18 | 0 | | 83 |
| D | 588 | 240 | 23 | 0 | 224 | 48 | | 1123 |
| E | 1342 | 0 | 56 | 129 | 0 | 84 | | 1611 |
| F | 29 | 4 | 1 | 27 | 18 | 0 | | 79 |
| G | | | | | | | | |
| TOTAL | 2223 | 372 | 196 | 803 | 1417 | 204 | | 5215 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 96 | 39 | 286 | 896 | 43 | | 1360 |
| B | 195 | 0 | 19 | 250 | 0 | 26 | | 490 |
| C | 9 | 1 | 0 | 4 | 5 | 0 | | 19 |
| D | 524 | 161 | 19 | 0 | 134 | 35 | | 873 |
| E | 1034 | 0 | 43 | 69 | 0 | 81 | | 1227 |
| F | 25 | 3 | 1 | 21 | 15 | 0 | | 65 |
| G | | | | | | | | |
| TOTAL | 1787 | 261 | 121 | 630 | 1050 | 185 | | 4034 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 27 | 23 | 154 | 1 | | 229 |
| B | 11 | 0 | 2 | 46 | 0 | 0 | | 59 |
| C | 32 | 2 | 0 | 3 | 8 | 0 | | 45 |
| D | 39 | 38 | 3 | 0 | 42 | 5 | | 127 |
| E | 151 | 0 | 6 | 35 | 0 | 2 | | 194 |
| F | 1 | 0 | 0 | 1 | 1 | 0 | | 3 |
| G | | | | | | | | |
| TOTAL | 234 | 64 | 38 | 108 | 205 | 8 | | 657 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 29 | 4 | 107 | 0 | | 145 |
| B | 3 | 0 | 0 | 31 | 0 | 2 | | 36 |
| C | 14 | 0 | 0 | 0 | 5 | 0 | | 19 |
| D | 25 | 41 | 1 | 0 | 48 | 8 | | 123 |
| E | 157 | 0 | 7 | 25 | 0 | 1 | | 190 |
| F | 3 | 1 | 0 | 5 | 2 | 0 | | 11 |
| G | | | | | | | | |
| TOTAL | 202 | 47 | 37 | 65 | 162 | 11 | | 524 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 174 | 100 | 308 | 1034 | 26 | | 1642 |
| B | 194 | 0 | 20 | 218 | 0 | 8 | | 440 |
| C | 73 | 12 | 0 | 14 | 27 | 1 | | 127 |
| D | 345 | 154 | 21 | 0 | 142 | 45 | | 707 |
| E | 1028 | 0 | 39 | 119 | 0 | 31 | | 1217 |
| F | 32 | 11 | 1 | 37 | 38 | 0 | | 119 |
| G | | | | | | | | |
| TOTAL | 1672 | 351 | 181 | 696 | 1241 | 111 | | 4252 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 130 | 49 | 270 | 728 | 22 | | 1199 |
| B | 158 | 0 | 15 | 143 | 0 | 6 | | 322 |
| C | 26 | 7 | 0 | 11 | 17 | 1 | | 62 |
| D | 302 | 97 | 18 | 0 | 68 | 25 | | 510 |
| E | 713 | 0 | 29 | 47 | 0 | 23 | | 812 |
| F | 29 | 9 | 1 | 27 | 31 | 0 | | 97 |
| G | | | | | | | | |
| TOTAL | 1228 | 243 | 112 | 498 | 844 | 77 | | 3002 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 32 | 24 | 164 | 2 | | 246 |
| B | 19 | 0 | 3 | 31 | 0 | 1 | | 54 |
| C | 37 | 3 | 0 | 3 | 6 | 0 | | 49 |
| D | 29 | 34 | 3 | 0 | 26 | 7 | | 99 |
| E | 163 | 0 | 7 | 37 | 0 | 3 | | 210 |
| F | 2 | 1 | 0 | 5 | 2 | 0 | | 10 |
| G | | | | | | | | |
| TOTAL | 250 | 62 | 45 | 100 | 198 | 13 | | 668 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 19 | 14 | 142 | 2 | | 197 |
| B | 17 | 0 | 2 | 44 | 0 | 1 | | 64 |
| C | 10 | 2 | 0 | 0 | 4 | 0 | | 16 |
| D | 14 | 23 | 0 | 0 | 48 | 13 | | 98 |
| E | 152 | 0 | 3 | 35 | 0 | 5 | | 195 |
| F | 1 | 1 | 0 | 5 | 5 | 0 | | 12 |
| G | | | | | | | | |
| TOTAL | 194 | 46 | 24 | 98 | 199 | 21 | | 582 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 217 | 29 | 459 | 1022 | 33 | | 1760 |
| B | 226 | 0 | 5 | 187 | 0 | 12 | | 430 |
| C | 47 | 11 | 0 | 22 | 38 | 1 | | 119 |
| D | 489 | 178 | 10 | 0 | 202 | 58 | | 937 |
| E | 1206 | 0 | 15 | 158 | 0 | 34 | | 1413 |
| F | 34 | 12 | 0 | 50 | 77 | 0 | | 173 |
| G | | | | | | | | |
| TOTAL | 2002 | 418 | 59 | 876 | 1339 | 138 | | 4832 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 205 | 15 | 434 | 936 | 32 | | 1622 |
| B | 214 | 0 | 4 | 160 | 0 | 11 | | 389 |
| C | 22 | 10 | 0 | 20 | 35 | 1 | | 88 |
| D | 464 | 158 | 9 | 0 | 155 | 53 | | 839 |
| E | 1065 | 0 | 12 | 120 | 0 | 29 | | 1226 |
| F | 32 | 12 | 0 | 48 | 74 | 0 | | 166 |
| G | | | | | | | | |
| TOTAL | 1797 | 385 | 40 | 782 | 1200 | 126 | | 4330 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 12 | 20 | 64 | 1 | | 108 |
| B | 12 | 0 | 1 | 17 | 0 | 1 | | 31 |
| C | 21 | 1 | 0 | 2 | 3 | 0 | | 27 |
| D | 17 | 16 | 1 | 0 | 27 | 5 | | 66 |
| E | 104 | 0 | 3 | 24 | 0 | 3 | | 134 |
| F | 2 | 0 | 0 | 2 | 1 | 0 | | 5 |
| G | | | | | | | | |
| TOTAL | 156 | 28 | 17 | 65 | 95 | 10 | | 371 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 5 | 22 | 0 | | 30 |
| B | 0 | 0 | 0 | 10 | 0 | 0 | | 10 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 8 | 4 | 0 | 0 | 20 | 0 | | 32 |
| E | 37 | 0 | 0 | 14 | 0 | 2 | | 53 |
| F | 0 | 0 | 0 | 0 | 2 | 0 | | 2 |
| G | | | | | | | | |
| TOTAL | 49 | 5 | 2 | 29 | 44 | 2 | | 131 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | *Heywood Old Road NE* |
| B | 60074 | 2478 | 2478 | 60074 | *Whittle Lane* |
| C | 4730 | 2478 | 2478 | 4730 | *Heywood Old Road SE* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 275 | | | | | 319 |
| B | 8 | 0 | 140 | | | | | 147 |
| C | 547 | 231 | 0 | | | | | 778 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 555 | 276 | 415 | | | | | 1245 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 228 | | | | | 270 |
| B | 7 | 0 | 126 | | | | | 133 |
| C | 435 | 204 | 0 | | | | | 639 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 442 | 247 | 354 | | | | | 1042 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 28 | | | | | 29 |
| B | 1 | 0 | 14 | | | | | 15 |
| C | 80 | 27 | 0 | | | | | 107 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 29 | 41 | | | | | 151 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 17 | | | | | 17 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 0 | 17 | | | | | 49 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 334 | | | | | 353 |
| B | 21 | 0 | 110 | | | | | 131 |
| C | 294 | 104 | 0 | | | | | 398 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 316 | 122 | 444 | | | | | 882 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 249 | | | | | 262 |
| B | 16 | 0 | 94 | | | | | 110 |
| C | 240 | 89 | 0 | | | | | 328 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 256 | 101 | 343 | | | | | 700 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 44 | | | | | 50 |
| B | 5 | 0 | 16 | | | | | 21 |
| C | 28 | 15 | 0 | | | | | 44 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 21 | 60 | | | | | 115 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 39 | | | | | 39 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 27 | 0 | 0 | | | | | 27 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 27 | 0 | 39 | | | | | 65 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.99 | | | | | 1.99 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 742 | | | | | 773 |
| B | 53 | 0 | 163 | | | | | 216 |
| C | 361 | 148 | 0 | | | | | 509 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 414 | 179 | 905 | | | | | 1498 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 644 | | | | | 673 |
| B | 53 | 0 | 150 | | | | | 203 |
| C | 330 | 141 | 0 | | | | | 471 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 383 | 170 | 795 | | | | | 1347 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 64 | | | | | 66 |
| B | 0 | 0 | 12 | | | | | 13 |
| C | 25 | 8 | 0 | | | | | 33 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 25 | 10 | 76 | | | | | 111 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 32 | | | | | 32 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 6 | 0 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 6 | 0 | 32 | | | | | 37 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.95 | | | | | 1.95 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A6045 Heywood Old Road / Langley Lane**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | *Heywood Old Road SE* |
| B | 15238 | 4730 | 4730 | 15238 | *Langley Lane* |
| C | 2478 | 4730 | 4730 | 2478 | *Heywood Old Road NE* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 70 | 414 | | | | | 484 |
| B | 81 | 0 | 365 | | | | | 446 |
| C | 214 | 200 | 0 | | | | | 415 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 295 | 270 | 778 | | | | | 1344 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 322 | | | | | 381 |
| B | 74 | 0 | 317 | | | | | 391 |
| C | 174 | 180 | 0 | | | | | 354 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 248 | 239 | 639 | | | | | 1126 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 66 | | | | | 70 |
| B | 4 | 0 | 41 | | | | | 45 |
| C | 24 | 18 | 0 | | | | | 41 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 27 | 22 | 107 | | | | | 157 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 25 | | | | | 30 |
| B | 3 | 0 | 6 | | | | | 10 |
| C | 17 | 0 | 0 | | | | | 17 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 20 | 5 | 32 | | | | | 57 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 217 | | | | | 251 |
| B | 40 | 0 | 181 | | | | | 221 |
| C | 252 | 192 | 0 | | | | | 444 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 292 | 226 | 398 | | | | | 916 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 165 | | | | | 192 |
| B | 32 | 0 | 163 | | | | | 195 |
| C | 180 | 163 | 0 | | | | | 343 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 212 | 189 | 328 | | | | | 730 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 26 | | | | | 29 |
| B | 4 | 0 | 18 | | | | | 22 |
| C | 37 | 23 | 0 | | | | | 60 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 41 | 26 | 44 | | | | | 111 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 26 | | | | | 28 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 35 | 4 | 0 | | | | | 39 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 37 | 6 | 27 | | | | | 69 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.98 | 0 | | | | | 5.98 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 278 | | | | | 328 |
| B | 55 | 0 | 231 | | | | | 286 |
| C | 575 | 330 | 0 | | | | | 905 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 630 | 380 | 509 | | | | | 1519 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 255 | | | | | 296 |
| B | 49 | 0 | 216 | | | | | 266 |
| C | 500 | 295 | 0 | | | | | 795 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 549 | 336 | 471 | | | | | 1356 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 18 | | | | | 24 |
| B | 3 | 0 | 15 | | | | | 18 |
| C | 44 | 32 | 0 | | | | | 76 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 38 | 33 | | | | | 118 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 5 | | | | | 6 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 31 | 1 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 2 | 6 | | | | | 39 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 3.95 | 0 | | | | | 5.94 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Langley Lane / A6046 Hollin Lane**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 196 | 558 | | | | | 754 |
| | B | 170 | 0 | 56 | | | | | 227 |
| | C | 571 | 5 | 0 | | | | | 576 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 742 | 201 | 614 | | | | | 1557 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 150 | 428 | | | | | 578 |
| | B | 148 | 0 | 55 | | | | | 203 |
| | C | 361 | 5 | 0 | | | | | 365 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 509 | 154 | 483 | | | | | 1147 |

MODELLED

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 40 | 82 | | | | | 122 |
| | B | 18 | 0 | 0 | | | | | 18 |
| | C | 123 | 0 | 0 | | | | | 124 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 141 | 40 | 82 | | | | | 264 |

MODELLED

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 6 | 28 | | | | | 35 |
| | B | 0 | 0 | 1 | | | | | 1 |
| | C | 57 | 0 | 0 | | | | | 57 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 57 | 6 | 29 | | | | | 93 |

MODELLED

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 0 | 20 | | | | | 20 |
| | B | 4 | 0 | 0 | | | | | 4 |
| | C | 30 | 0 | 0 | | | | | 30 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 34 | 0 | 20 | | | | | 54 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 108 | 487 | | | | | 595 |
| | B | 118 | 0 | 14 | | | | | 132 |
| | C | 499 | 11 | 0 | | | | | 510 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 617 | 119 | 501 | | | | | 1237 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 88 | 348 | | | | | 437 |
| | B | 89 | 0 | 14 | | | | | 103 |
| | C | 363 | 11 | 0 | | | | | 373 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 452 | 99 | 362 | | | | | 913 |

MODELLED

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 18 | 76 | | | | | 93 |
| | B | 21 | 0 | 0 | | | | | 21 |
| | C | 77 | 0 | 0 | | | | | 77 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 98 | 18 | 76 | | | | | 192 |

MODELLED

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 0 | 43 | | | | | 43 |
| | B | 4 | 0 | 0 | | | | | 4 |
| | C | 35 | 0 | 0 | | | | | 35 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 39 | 0 | 43 | | | | | 82 |

MODELLED

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 2 | 20 | | | | | 22 |
| | B | 4 | 0 | 0 | | | | | 4 |
| | C | 24 | 0 | 0 | | | | | 24 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 27.89 | 2 | 19.99 | | | | | 49.88 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 160 | 638 | | | | | 798 |
| | B | 143 | 0 | 7 | | | | | 149 |
| | C | 607 | 39 | 0 | | | | | 646 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 750 | 199 | 645 | | | | | 1593 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 143 | 529 | | | | | 672 |
| | B | 114 | 0 | 7 | | | | | 120 |
| | C | 495 | 38 | 0 | | | | | 533 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 608 | 182 | 536 | | | | | 1326 |

MODELLED

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 14 | 62 | | | | | 77 |
| | B | 24 | 0 | 0 | | | | | 24 |
| | C | 73 | 1 | 0 | | | | | 73 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 97 | 15 | 62 | | | | | 174 |

MODELLED

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 0 | 19 | | | | | 19 |
| | B | 1 | 0 | 0 | | | | | 1 |
| | C | 16 | 0 | 0 | | | | | 16 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 17 | 0 | 19 | | | | | 36 |

MODELLED

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 2 | 28 | | | | | 30 |
| | B | 4 | 0 | 0 | | | | | 4 |
| | C | 24 | 0 | 0 | | | | | 24 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 27.7 | 1.99 | 27.82 | | | | | 57.51 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A6045 Manchester Road / Coronation Avenue**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 82 | 350 | | | | | 432 |
| B | 368 | 0 | 39 | | | | | 407 |
| C | 264 | 211 | 0 | | | | | 476 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 632 | 293 | 389 | | | | | 1315 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 269 | | | | | 269 |
| B | 251 | 0 | 31 | | | | | 283 |
| C | 232 | 177 | 0 | | | | | 409 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 484 | 177 | 301 | | | | | 961 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 57 | | | | | 57 |
| B | 40 | 0 | 5 | | | | | 45 |
| C | 19 | 30 | 0 | | | | | 48 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 58 | 30 | 63 | | | | | 151 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 19 | | | | | 72 |
| B | 57 | 0 | 3 | | | | | 60 |
| C | 13 | 5 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 70 | 57 | 22 | | | | | 149 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 4 | | | | | 34 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 20 | 30 | 4 | | | | | 53 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 64 | 251 | | | | | 315 |
| B | 141 | 0 | 114 | | | | | 256 |
| C | 307 | 127 | 0 | | | | | 434 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 448 | 192 | 365 | | | | | 1005 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 182 | | | | | 182 |
| B | 49 | 0 | 70 | | | | | 118 |
| C | 206 | 100 | 0 | | | | | 306 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 254 | 100 | 252 | | | | | 606 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 34 | | | | | 34 |
| B | 1 | 0 | 36 | | | | | 38 |
| C | 65 | 21 | 0 | | | | | 87 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 67 | 21 | 71 | | | | | 159 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 29 | | | | | 70 |
| B | 71 | 0 | 8 | | | | | 79 |
| C | 34 | 6 | 0 | | | | | 40 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 105 | 47 | 37 | | | | | 189 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.93 | 23.88 | 5.97 | | | | | 51.78 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 297 | | | | | 338 |
| B | 370 | 0 | 21 | | | | | 391 |
| C | 447 | 129 | 0 | | | | | 577 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 817 | 170 | 318 | | | | | 1306 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 257 | | | | | 257 |
| B | 300 | 0 | 10 | | | | | 310 |
| C | 386 | 118 | 0 | | | | | 504 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 686 | 118 | 267 | | | | | 1071 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 21 | | | | | 21 |
| B | 29 | 0 | 10 | | | | | 39 |
| C | 33 | 10 | 0 | | | | | 43 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 62 | 10 | 31 | | | | | 103 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 15 | | | | | 32 |
| B | 13 | 0 | 1 | | | | | 14 |
| C | 27 | 2 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 19 | 16 | | | | | 74 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 4 | | | | | 28 |
| B | 28 | 0 | 0 | | | | | 28 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.57 | 23.83 | 3.97 | | | | | 57.37 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Hollins Brow / Hollins Lane**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 348 | 474 | | | | | 822 |
| B | 162 | 0 | 58 | | | | | 220 |
| C | 614 | 62 | 0 | | | | | 675 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 776 | 410 | 532 | | | | | 1718 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 305 | 409 | | | | | 714 |
| B | 128 | 0 | 45 | | | | | 173 |
| C | 527 | 45 | 0 | | | | | 573 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 656 | 350 | 453 | | | | | 1459 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 47 | | | | | 84 |
| B | 30 | 0 | 7 | | | | | 36 |
| C | 56 | 9 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 86 | 46 | 54 | | | | | 186 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 18 | | | | | 20 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 30 | 2 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 4 | 18 | | | | | 53 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 151 | 451 | | | | | 602 |
| B | 129 | 0 | 43 | | | | | 172 |
| C | 466 | 52 | 0 | | | | | 518 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 595 | 203 | 494 | | | | | 1292 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 121 | 358 | | | | | 479 |
| B | 99 | 0 | 29 | | | | | 128 |
| C | 369 | 34 | 0 | | | | | 403 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 468 | 155 | 387 | | | | | 1010 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 55 | | | | | 77 |
| B | 21 | 0 | 8 | | | | | 29 |
| C | 61 | 12 | 0 | | | | | 73 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 82 | 33 | 63 | | | | | 179 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 37 | | | | | 44 |
| B | 5 | 0 | 1 | | | | | 5 |
| C | 35 | 1 | 0 | | | | | 36 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 7 | 38 | | | | | 85 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 4 | 7.98 | 6 | | | | | 17.98 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 222 | 530 | | | | | 753 |
| B | 111 | 0 | 51 | | | | | 162 |
| C | 575 | 51 | 0 | | | | | 626 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 686 | 273 | 581 | | | | | 1540 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 200 | 485 | | | | | 685 |
| B | 93 | 0 | 38 | | | | | 131 |
| C | 526 | 36 | 0 | | | | | 562 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 619 | 236 | 523 | | | | | 1378 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 39 | | | | | 56 |
| B | 9 | 0 | 7 | | | | | 16 |
| C | 38 | 9 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 46 | 26 | 46 | | | | | 118 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 6 | | | | | 7 |
| B | 7 | 0 | 0 | | | | | 7 |
| C | 12 | 0 | 0 | | | | | 12 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 2 | 6 | | | | | 26 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 9.9 | 5.97 | | | | | 17.86 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Hollins Brow / A56 Manchester Road**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 537 | 597 | | | | | 1134 |
| | B | 381 | 0 | 151 | | | | | 532 |
| | C | 688 | 139 | 0 | | | | | 826 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 1069 | 675 | 748 | | | | | 2492 |

*By Vehicle Type:*

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 476 | 486 | | | | | 962 |
| | B | 327 | 0 | 126 | | | | | 453 |
| | C | 599 | 97 | 0 | | | | | 696 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 926 | 573 | 611 | | | | | 2111 |

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 40 | 58 | | | | | 98 |
| | B | 41 | 0 | 13 | | | | | 54 |
| | C | 43 | 25 | 0 | | | | | 68 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 84 | 65 | 71 | | | | | 220 |

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 14 | 34 | | | | | 48 |
| | B | 7 | 0 | 12 | | | | | 18 |
| | C | 26 | 17 | 0 | | | | | 43 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 33 | 32 | 46 | | | | | 110 |

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 6 | 20 | | | | | 26 |
| | B | 6 | 0 | 0 | | | | | 6 |
| | C | 20 | 0 | 0 | | | | | 20 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 26 | 6 | 20 | | | | | 52 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 354 | 548 | | | | | 902 |
| | B | 311 | 0 | 182 | | | | | 494 |
| | C | 642 | 164 | 0 | | | | | 807 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 954 | 518 | 731 | | | | | 2202 |

*By Vehicle Type:*

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 287 | 432 | | | | | 719 |
| | B | 249 | 0 | 137 | | | | | 387 |
| | C | 506 | 116 | 0 | | | | | 622 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 755 | 403 | 569 | | | | | 1727 |

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 48 | 63 | | | | | 111 |
| | B | 42 | 0 | 21 | | | | | 63 |
| | C | 79 | 25 | 0 | | | | | 105 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 121 | 73 | 85 | | | | | 279 |

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 13 | 33 | | | | | 46 |
| | B | 14 | 0 | 24 | | | | | 38 |
| | C | 35 | 23 | 0 | | | | | 58 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 49 | 36 | 57 | | | | | 142 |

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 6 | 20 | | | | | 26 |
| | B | 6 | 0 | 0 | | | | | 6 |
| | C | 22 | 0 | 0 | | | | | 22 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 27.94 | 5.99 | 19.97 | | | | | 53.9 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 458 | 597 | | | | | 1055 |
| | B | 417 | 0 | 164 | | | | | 581 |
| | C | 798 | 168 | 0 | | | | | 966 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 1215 | 626 | 762 | | | | | 2602 |

*By Vehicle Type:*

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 423 | 519 | | | | | 943 |
| | B | 377 | 0 | 146 | | | | | 523 |
| | C | 706 | 138 | 0 | | | | | 844 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 1083 | 562 | 666 | | | | | 2311 |

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 25 | 49 | | | | | 74 |
| | B | 31 | 0 | 14 | | | | | 46 |
| | C | 61 | 22 | 0 | | | | | 83 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 93 | 47 | 64 | | | | | 203 |

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 3 | 9 | | | | | 12 |
| | B | 2 | 0 | 4 | | | | | 6 |
| | C | 11 | 9 | 0 | | | | | 19 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 13 | 12 | 12 | | | | | 37 |

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 6 | 20 | | | | | 26 |
| | B | 6 | 0 | 0 | | | | | 6 |
| | C | 20 | 0 | 0 | | | | | 20 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 25.62 | 5.98 | 19.95 | | | | | 51.55 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 2709 | 2713 | 12828 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 1094 | 2925 | 654 | | | | 4673 |
| | B | 489 | 34 | 732 | 3669 | | | | 4924 |
| | C | 2347 | 492 | 0 | 1615 | | | | 4454 |
| | D | 1235 | 4454 | 1901 | 0 | | | | 7590 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 4071 | 6074 | 5558 | 5938 | | | | 21641 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 751 | 1976 | 346 | | | | 3073 |
| | B | 456 | 0 | 538 | 1733 | | | | 2727 |
| | C | 1577 | 309 | 0 | 927 | | | | 2813 |
| | D | 665 | 2133 | 1072 | 0 | | | | 3870 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 2698 | 3193 | 3586 | 3006 | | | | 12483 |

MODELLED

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 175 | 585 | 130 | | | | 890 |
| | B | 33 | 2 | 48 | 629 | | | | 712 |
| | C | 370 | 91 | 0 | 466 | | | | 927 |
| | D | 332 | 826 | 425 | 0 | | | | 1583 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 735 | 1094 | 1058 | 1225 | | | | 4112 |

MODELLED

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 168 | 364 | 178 | | | | 710 |
| | B | 0 | 32 | 146 | 1307 | | | | 1485 |
| | C | 400 | 92 | 0 | 222 | | | | 714 |
| | D | 238 | 1495 | 404 | 0 | | | | 2137 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 638 | 1787 | 914 | 1707 | | | | 5046 |

MODELLED

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | | | | | | | | 0 |
| | B | | | | | | | | 0 |
| | C | | | | | | | | 0 |
| | D | | | | | | | | 0 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 848 | 1601 | 833 | | | | 3282 |
| | B | 424 | 64 | 419 | 4221 | | | | 5128 |
| | C | 1755 | 557 | 0 | 1804 | | | | 4116 |
| | D | 1270 | 4268 | 1783 | 0 | | | | 7321 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 3449 | 5737 | 3803 | 6858 | | | | 19847 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 547 | 999 | 351 | | | | 1897 |
| | B | 417 | 1 | 301 | 2000 | | | | 2719 |
| | C | 1127 | 371 | 0 | 1030 | | | | 2528 |
| | D | 518 | 1986 | 925 | 0 | | | | 3429 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 2062 | 2905 | 2225 | 3381 | | | | 10573 |

MODELLED

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 116 | 336 | 196 | | | | 648 |
| | B | 7 | 1 | 67 | 838 | | | | 913 |
| | C | 313 | 98 | 0 | 425 | | | | 836 |
| | D | 289 | 813 | 358 | 0 | | | | 1460 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 609 | 1028 | 761 | 1459 | | | | 3857 |

MODELLED

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 185 | 266 | 286 | | | | 737 |
| | B | 0 | 62 | 51 | 1383 | | | | 1496 |
| | C | 315 | 88 | 0 | 349 | | | | 752 |
| | D | 463 | 1469 | 500 | 0 | | | | 2432 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 778 | 1804 | 817 | 2018 | | | | 5417 |

MODELLED

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | | | | | | | | 0 |
| | B | | | | | | | | 0 |
| | C | | | | | | | | 0 |
| | D | | | | | | | | 0 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 929 | 2050 | 757 | | | | 3736 |
| | B | 84 | 68 | 577 | 4224 | | | | 4953 |
| | C | 2817 | 515 | 0 | 1837 | | | | 5169 |
| | D | 1467 | 4175 | 1891 | 0 | | | | 7533 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 4368 | 5687 | 4518 | 6818 | | | | 21391 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 848 | 1679 | 471 | | | | 2998 |
| | B | 80 | 2 | 542 | 2746 | | | | 3370 |
| | C | 2312 | 429 | 0 | 1350 | | | | 4091 |
| | D | 1036 | 2788 | 1339 | 0 | | | | 5163 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 3428 | 4067 | 3560 | 4567 | | | | 15622 |

MODELLED

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 70 | 287 | 149 | | | | 506 |
| | B | 4 | 2 | 22 | 580 | | | | 608 |
| | C | 333 | 75 | 0 | 355 | | | | 763 |
| | D | 233 | 592 | 310 | 0 | | | | 1135 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 570 | 739 | 619 | 1084 | | | | 3012 |

MODELLED

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 11 | 84 | 137 | | | | 232 |
| | B | 0 | 64 | 13 | 898 | | | | 975 |
| | C | 172 | 11 | 0 | 132 | | | | 315 |
| | D | 198 | 795 | 242 | 0 | | | | 1235 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 370 | 881 | 339 | 1167 | | | | 2757 |

MODELLED

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | | | | | | | | 0 |
| | B | | | | | | | | 0 |
| | C | | | | | | | | 0 |
| | D | | | | | | | | 0 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | *JTC 20 - A627 SB* |
| B | 2727 | 2724 | 2723 | 2725 | *JTC 20 - M62 WB* |
| C | 2768 | 4932 | 4929 | 2767 | *JTC 20 - A627 NB* |
| D | 2719 | 2721 | 2722 | 2720 | *JTC 20 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 146 | 909 | 524 | | | | 1579 |
| B | 164 | 0 | 899 | 4020 | | | | 5083 |
| C | 779 | 554 | 0 | 516 | | | | 1849 |
| D | 923 | 4276 | 992 | 0 | | | | 6191 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1866 | 4976 | 2800 | 5060 | | | | 14702 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 104 | 758 | 284 | | | | 1146 |
| B | 140 | 0 | 707 | 2041 | | | | 2888 |
| C | 629 | 331 | 0 | 355 | | | | 1315 |
| D | 558 | 2079 | 667 | 0 | | | | 3304 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1327 | 2514 | 2132 | 2680 | | | | 8653 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 71 | 83 | | | | 172 |
| B | 21 | 0 | 107 | 622 | | | | 750 |
| C | 95 | 61 | 0 | 90 | | | | 246 |
| D | 130 | 753 | 195 | 0 | | | | 1078 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 246 | 832 | 373 | 795 | | | | 2246 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 80 | 157 | | | | 261 |
| B | 3 | 0 | 85 | 1357 | | | | 1445 |
| C | 55 | 162 | 0 | 71 | | | | 288 |
| D | 235 | 1444 | 130 | 0 | | | | 1809 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 293 | 1630 | 295 | 1585 | | | | 3803 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 100 | 593 | 502 | | | | 1195 |
| B | 218 | 0 | 765 | 3887 | | | | 4870 |
| C | 406 | 686 | 0 | 664 | | | | 1756 |
| D | 714 | 4445 | 557 | 0 | | | | 5716 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1338 | 5231 | 1915 | 5053 | | | | 13537 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 439 | 270 | | | | 754 |
| B | 78 | 0 | 361 | 1961 | | | | 2400 |
| C | 242 | 327 | 0 | 476 | | | | 1045 |
| D | 519 | 2046 | 392 | 0 | | | | 2957 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 839 | 2418 | 1192 | 2707 | | | | 7156 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 86 | 104 | | | | 209 |
| B | 13 | 0 | 124 | 628 | | | | 765 |
| C | 94 | 91 | 0 | 146 | | | | 331 |
| D | 125 | 745 | 124 | 0 | | | | 994 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 232 | 855 | 334 | 878 | | | | 2299 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 68 | 128 | | | | 232 |
| B | 127 | 0 | 280 | 1298 | | | | 1705 |
| C | 70 | 268 | 0 | 42 | | | | 380 |
| D | 70 | 1654 | 41 | 0 | | | | 1765 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 267 | 1958 | 389 | 1468 | | | | 4082 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 132 | 814 | 836 | | | | 1782 |
| B | 106 | 0 | 751 | 3628 | | | | 4485 |
| C | 848 | 996 | 0 | 690 | | | | 2534 |
| D | 650 | 4220 | 844 | 0 | | | | 5714 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1604 | 5348 | 2409 | 5154 | | | | 14515 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 96 | 633 | 567 | | | | 1296 |
| B | 90 | 0 | 608 | 2321 | | | | 3019 |
| C | 757 | 801 | 0 | 571 | | | | 2129 |
| D | 563 | 2832 | 723 | 0 | | | | 4118 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1410 | 3729 | 1964 | 3459 | | | | 10562 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 93 | 107 | | | | 221 |
| B | 6 | 0 | 63 | 456 | | | | 525 |
| C | 80 | 95 | 0 | 87 | | | | 262 |
| D | 67 | 577 | 98 | 0 | | | | 742 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 153 | 693 | 254 | 650 | | | | 1750 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 88 | 162 | | | | 265 |
| B | 10 | 0 | 80 | 851 | | | | 941 |
| C | 11 | 100 | 0 | 32 | | | | 143 |
| D | 20 | 811 | 23 | 0 | | | | 854 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 41 | 926 | 191 | 1045 | | | | 2203 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **M60 J19**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | *JTC 21 - M60 SB* |
| B | 14141 | 5666 | 5093 | 14141 | *JTC 21 - A576 WB* |
| C | 5668 | 5665 | 5667 | 5669 | *JTC 21 - M60 NB* |
| D | 3414 | 5096 | 5095 | 3414 | *JTC 21 - A576 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 361 | 0 | 814 | | | | 1175 |
| B | 285 | 0 | 288 | 444 | | | | 1017 |
| C | 0 | 211 | 13 | 474 | | | | 698 |
| D | 583 | 182 | 558 | 0 | | | | 1323 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 868 | 754 | 859 | 1732 | | | | 4213 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 272 | 0 | 670 | | | | 942 |
| B | 173 | 0 | 186 | 392 | | | | 751 |
| C | 0 | 151 | 13 | 383 | | | | 547 |
| D | 443 | 165 | 478 | 0 | | | | 1086 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 616 | 588 | 677 | 1445 | | | | 3326 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 0 | 62 | | | | 104 |
| B | 53 | 0 | 74 | 47 | | | | 174 |
| C | 0 | 22 | 0 | 68 | | | | 90 |
| D | 56 | 16 | 67 | 0 | | | | 139 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 109 | 80 | 141 | 177 | | | | 507 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 0 | 82 | | | | 129 |
| B | 59 | 0 | 28 | 5 | | | | 92 |
| C | 0 | 38 | 0 | 23 | | | | 61 |
| D | 84 | 1 | 13 | 0 | | | | 98 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 143 | 86 | 41 | 110 | | | | 380 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 214 | 0 | 506 | | | | 720 |
| B | 244 | 0 | 194 | 329 | | | | 767 |
| C | 0 | 221 | 0 | 392 | | | | 613 |
| D | 673 | 393 | 466 | 0 | | | | 1532 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 917 | 828 | 660 | 1227 | | | | 3632 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 146 | 0 | 391 | | | | 537 |
| B | 174 | 0 | 110 | 295 | | | | 579 |
| C | 0 | 123 | 0 | 304 | | | | 427 |
| D | 485 | 350 | 360 | 0 | | | | 1195 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 659 | 619 | 470 | 990 | | | | 2738 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 0 | 74 | | | | 115 |
| B | 38 | 0 | 31 | 30 | | | | 99 |
| C | 0 | 48 | 0 | 56 | | | | 104 |
| D | 105 | 36 | 71 | 0 | | | | 212 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 143 | 125 | 102 | 160 | | | | 530 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 0 | 41 | | | | 68 |
| B | 32 | 0 | 53 | 4 | | | | 89 |
| C | 0 | 50 | 0 | 32 | | | | 82 |
| D | 83 | 7 | 35 | 0 | | | | 125 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 115 | 84 | 88 | 77 | | | | 364 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 200 | 0 | 720 | | | | 920 |
| B | 224 | 0 | 163 | 467 | | | | 854 |
| C | 63 | 487 | 11 | 493 | | | | 1054 |
| D | 973 | 718 | 673 | 0 | | | | 2364 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1260 | 1405 | 847 | 1680 | | | | 5192 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 151 | 0 | 663 | | | | 814 |
| B | 186 | 0 | 138 | 433 | | | | 757 |
| C | 60 | 402 | 11 | 441 | | | | 914 |
| D | 861 | 666 | 611 | 0 | | | | 2138 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1107 | 1219 | 760 | 1537 | | | | 4623 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 0 | 40 | | | | 73 |
| B | 23 | 0 | 22 | 32 | | | | 77 |
| C | 2 | 54 | 0 | 52 | | | | 108 |
| D | 96 | 51 | 55 | 0 | | | | 202 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 138 | 77 | 124 | | | | 460 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 0 | 17 | | | | 33 |
| B | 15 | 0 | 3 | 2 | | | | 20 |
| C | 1 | 31 | 0 | 0 | | | | 32 |
| D | 16 | 1 | 7 | 0 | | | | 24 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 48 | 10 | 19 | | | | 109 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A576 Middleton Road / A6045 Heywood Old Road**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6940 | 2391 | 2391 | 6940 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 1 | 508 | | | | 529 |
| B | 52 | 0 | 3 | 514 | | | | 570 |
| C | 3 | 4 | 0 | 13 | | | | 20 |
| D | 248 | 512 | 8 | 0 | | | | 768 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 304 | 535 | 12 | 1035 | | | | 1886 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 1 | 376 | | | | 387 |
| B | 38 | 0 | 1 | 366 | | | | 405 |
| C | 2 | 2 | 0 | 10 | | | | 14 |
| D | 208 | 373 | 6 | 0 | | | | 587 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 249 | 386 | 8 | 751 | | | | 1393 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 0 | 93 | | | | 100 |
| B | 6 | 0 | 0 | 78 | | | | 84 |
| C | 1 | 1 | 0 | 2 | | | | 4 |
| D | 21 | 57 | 1 | 0 | | | | 79 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 28 | 65 | 2 | 173 | | | | 268 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 0 | 39 | | | | 42 |
| B | 8 | 0 | 1 | 53 | | | | 62 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 19 | 65 | 1 | 0 | | | | 86 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 28 | 69 | 3 | 93 | | | | 192 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 34 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 6 | 259 | | | | 341 |
| B | 56 | 0 | 5 | 518 | | | | 578 |
| C | 4 | 5 | 0 | 7 | | | | 15 |
| D | 323 | 516 | 7 | 0 | | | | 847 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 382 | 597 | 18 | 784 | | | | 1781 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 66 | 4 | 199 | | | | 270 |
| B | 42 | 0 | 3 | 373 | | | | 419 |
| C | 2 | 3 | 0 | 6 | | | | 10 |
| D | 245 | 370 | 5 | 0 | | | | 620 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 289 | 439 | 13 | 579 | | | | 1319 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 1 | 32 | | | | 39 |
| B | 8 | 0 | 1 | 66 | | | | 75 |
| C | 1 | 1 | 0 | 1 | | | | 3 |
| D | 46 | 78 | 1 | 0 | | | | 125 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 55 | 85 | 3 | 99 | | | | 242 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 1 | 28 | | | | 33 |
| B | 5 | 0 | 1 | 60 | | | | 66 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 32 | 50 | 1 | 0 | | | | 83 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 55 | 2 | 89 | | | | 184 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.92 | 0 | 17.98 | | | | 35.9 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 68 | 2 | 345 | | | | 414 |
| B | 87 | 0 | 4 | 521 | | | | 612 |
| C | 3 | 4 | 0 | 4 | | | | 12 |
| D | 708 | 704 | 9 | 0 | | | | 1422 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 799 | 777 | 14 | 870 | | | | 2460 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 64 | 2 | 312 | | | | 378 |
| B | 81 | 0 | 3 | 442 | | | | 527 |
| C | 3 | 3 | 0 | 3 | | | | 9 |
| D | 622 | 589 | 7 | 0 | | | | 1219 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 706 | 657 | 12 | 758 | | | | 2133 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 0 | 28 | | | | 31 |
| B | 5 | 0 | 0 | 49 | | | | 54 |
| C | 0 | 0 | 0 | 1 | | | | 2 |
| D | 58 | 79 | 1 | 0 | | | | 137 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 63 | 82 | 1 | 77 | | | | 224 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 0 | 5 | | | | 5 |
| B | 1 | 0 | 0 | 15 | | | | 16 |
| C | 0 | 1 | 0 | 1 | | | | 1 |
| D | 28 | 19 | 1 | 0 | | | | 48 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 20 | 1 | 20 | | | | 71 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 17 | 0 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.48 | 0 | 15.74 | | | | 33.22 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_AM_MELoop6\Heywood_Base_2022_AM_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 775 | | | | | 816 |
| B | 0 | 0 | 991 | | | | | 991 |
| C | 1605 | 647 | 0 | | | | | 2252 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1605 | 689 | 1765 | | | | | 4059 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 577 | | | | | 609 |
| B | 0 | 0 | 783 | | | | | 783 |
| C | 1283 | 502 | 0 | | | | | 1786 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1283 | 534 | 1360 | | | | | 3178 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 79 | | | | | 84 |
| B | 0 | 0 | 150 | | | | | 150 |
| C | 135 | 97 | 0 | | | | | 232 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 135 | 102 | 230 | | | | | 467 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 89 | | | | | 93 |
| B | 0 | 0 | 57 | | | | | 57 |
| C | 154 | 48 | 0 | | | | | 202 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 154 | 52 | 146 | | | | | 353 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 0 | 30 | | | | | 61 |

### Model_2_IP_MELoop6\Heywood_Base_2022_IP_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 774 | | | | | 774 |
| B | 0 | 0 | 898 | | | | | 898 |
| C | 1131 | 574 | 0 | | | | | 1705 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1131 | 574 | 1672 | | | | | 3377 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 553 | | | | | 553 |
| B | 0 | 0 | 646 | | | | | 646 |
| C | 835 | 395 | 0 | | | | | 1230 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 835 | 395 | 1199 | | | | | 2429 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 86 | | | | | 86 |
| B | 0 | 0 | 159 | | | | | 159 |
| C | 134 | 116 | 0 | | | | | 250 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 134 | 116 | 245 | | | | | 495 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 104 | | | | | 104 |
| B | 0 | 0 | 94 | | | | | 94 |
| C | 130 | 63 | 0 | | | | | 193 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 130 | 63 | 198 | | | | | 391 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.79 | 0 | 29.85 | | | | | 61.64 |

### Model_3_PM_MELoop6\Heywood_Base_2022_PM_N23_Low_I6.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 864 | | | | | 867 |
| B | 0 | 0 | 924 | | | | | 924 |
| C | 1331 | 699 | 0 | | | | | 2030 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1331 | 702 | 1788 | | | | | 3821 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 779 | | | | | 780 |
| B | 0 | 0 | 843 | | | | | 843 |
| C | 1192 | 604 | 0 | | | | | 1796 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1192 | 606 | 1622 | | | | | 3419 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 43 | | | | | 44 |
| B | 0 | 0 | 65 | | | | | 65 |
| C | 84 | 71 | 0 | | | | | 156 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 84 | 72 | 109 | | | | | 265 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 15 | | | | | 15 |
| B | 0 | 0 | 15 | | | | | 15 |
| C | 26 | 24 | 0 | | | | | 50 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 25 | 30 | | | | | 81 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.14 | 0 | 27.29 | | | | | 56.43 |

# Run 5 - 2032 Do Minimum Origin-Destination Matrice

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60057 | 60011 | 4924 | 2718 | C1-M62 WC1-M62 West |
| E | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizabe |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 220 | 247 | 503 | 27 | | | 997 |
| B | 246 | 0 | 164 | 0 | 447 | | | 857 |
| C | 253 | 199 | 0 | 192 | 86 | | | 730 |
| D | 197 | 0 | 91 | 2 | 245 | | | 535 |
| E | 1 | 306 | 120 | 177 | 0 | | | 604 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 697 | 725 | 622 | 874 | 805 | | | 3723 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 141 | 177 | 374 | 26 | | | 718 |
| B | 166 | 0 | 62 | 0 | 253 | | | 481 |
| C | 205 | 165 | 0 | 168 | 70 | | | 608 |
| D | 100 | 0 | 59 | 0 | 166 | | | 325 |
| E | 0 | 158 | 75 | 144 | 0 | | | 377 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 471 | 464 | 373 | 686 | 515 | | | 2509 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 61 | 39 | 1 | | | 161 |
| B | 39 | 0 | 64 | 0 | 68 | | | 171 |
| C | 42 | 11 | 0 | 20 | 13 | | | 86 |
| D | 55 | 0 | 11 | 1 | 18 | | | 85 |
| E | 1 | 17 | 9 | 9 | 0 | | | 36 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 137 | 88 | 145 | 69 | 100 | | | 539 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 9 | 90 | 0 | | | 118 |
| B | 41 | 0 | 38 | 0 | 126 | | | 205 |
| C | 6 | 23 | 0 | 4 | 3 | | | 36 |
| D | 42 | 0 | 21 | 1 | 61 | | | 125 |
| E | 0 | 131 | 36 | 24 | 0 | | | 191 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 89 | 173 | 104 | 119 | 190 | | | 675 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 230 | 259 | 272 | 2 | | | 763 |
| B | 161 | 0 | 116 | 0 | 210 | | | 487 |
| C | 189 | 250 | 0 | 246 | 76 | | | 761 |
| D | 200 | 0 | 84 | 8 | 252 | | | 544 |
| E | 8 | 216 | 84 | 89 | 0 | | | 397 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 558 | 696 | 543 | 615 | 540 | | | 2952 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 151 | 215 | 159 | 1 | | | 526 |
| B | 90 | 0 | 83 | 0 | 106 | | | 279 |
| C | 142 | 175 | 0 | 157 | 58 | | | 532 |
| D | 85 | 0 | 60 | 0 | 47 | | | 192 |
| E | 3 | 76 | 46 | 25 | 0 | | | 150 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 320 | 402 | 404 | 341 | 212 | | | 1679 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 49 | 32 | 57 | 1 | | | 139 |
| B | 37 | 0 | 23 | 0 | 19 | | | 79 |
| C | 32 | 33 | 0 | 52 | 9 | | | 126 |
| D | 49 | 0 | 18 | 1 | 38 | | | 106 |
| E | 4 | 28 | 14 | 10 | 0 | | | 56 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 110 | 87 | 120 | 67 | | | 506 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 12 | 56 | 0 | | | 98 |
| B | 34 | 0 | 10 | 0 | 85 | | | 129 |
| C | 15 | 42 | 0 | 37 | 9 | | | 103 |
| D | 66 | 0 | 6 | 7 | 167 | | | 246 |
| E | 1 | 112 | 24 | 54 | 0 | | | 191 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 116 | 184 | 52 | 154 | 261 | | | 767 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 227 | 273 | 308 | 6 | | | 814 |
| B | 213 | 0 | 192 | 0 | 345 | | | 750 |
| C | 254 | 230 | 0 | 238 | 64 | | | 786 |
| D | 265 | 0 | 187 | 0 | 270 | | | 722 |
| E | 13 | 269 | 75 | 78 | 0 | | | 435 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 745 | 726 | 727 | 624 | 685 | | | 3507 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 176 | 243 | 276 | 4 | | | 699 |
| B | 159 | 0 | 155 | 0 | 232 | | | 546 |
| C | 233 | 205 | 0 | 185 | 58 | | | 681 |
| D | 210 | 0 | 144 | 0 | 175 | | | 529 |
| E | 11 | 192 | 62 | 45 | 0 | | | 310 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 613 | 573 | 604 | 506 | 469 | | | 2765 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 25 | 16 | 2 | | | 80 |
| B | 32 | 0 | 29 | 0 | 27 | | | 88 |
| C | 19 | 24 | 0 | 31 | 5 | | | 79 |
| D | 29 | 0 | 34 | 0 | 20 | | | 83 |
| E | 2 | 22 | 5 | 4 | 0 | | | 33 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 82 | 83 | 93 | 51 | 54 | | | 363 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 5 | 16 | 0 | | | 35 |
| B | 22 | 0 | 8 | 0 | 86 | | | 116 |
| C | 2 | 1 | 0 | 22 | 1 | | | 26 |
| D | 26 | 0 | 9 | 0 | 75 | | | 110 |
| E | 0 | 55 | 8 | 29 | 0 | | | 92 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 70 | 30 | 67 | 162 | | | 379 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | *045 Manchester Road* |
| B | 60003 | 60010 | 60010 | 60003 | *4 Queen Elizabeth Wa* |
| C | 2814 | 60010 | 60010 | 2814 | *045 Manchester Road* |
| D | 60008 | 60010 | 60010 | 60008 | *4 Queen Elizabeth Wa* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 178 | 257 | 92 | | | | 527 |
| B | 129 | 0 | 114 | 560 | | | | 803 |
| C | 309 | 59 | 0 | 87 | | | | 455 |
| D | 80 | 369 | 48 | 0 | | | | 497 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 518 | 606 | 419 | 739 | | | | 2282 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 165 | 178 | 72 | | | | 415 |
| B | 98 | 0 | 83 | 333 | | | | 514 |
| C | 263 | 46 | 0 | 42 | | | | 351 |
| D | 61 | 168 | 21 | 0 | | | | 250 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 423 | 378 | 282 | 447 | | | | 1530 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 56 | 18 | | | | 80 |
| B | 14 | 0 | 28 | 57 | | | | 99 |
| C | 27 | 7 | 0 | 12 | | | | 46 |
| D | 14 | 24 | 4 | 0 | | | | 42 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 55 | 37 | 88 | 87 | | | | 268 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 20 | 1 | | | | 30 |
| B | 16 | 0 | 3 | 171 | | | | 190 |
| C | 19 | 6 | 0 | 32 | | | | 58 |
| D | 5 | 177 | 23 | 0 | | | | 205 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 191 | 46 | 205 | | | | 482 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 221 | 68 | | | | 328 |
| B | 94 | 0 | 49 | 394 | | | | 537 |
| C | 340 | 72 | 0 | 73 | | | | 485 |
| D | 60 | 286 | 49 | 0 | | | | 395 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 494 | 396 | 319 | 534 | | | | 1744 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 162 | 51 | | | | 236 |
| B | 71 | 0 | 38 | 101 | | | | 210 |
| C | 255 | 32 | 0 | 37 | | | | 325 |
| D | 41 | 95 | 30 | 0 | | | | 166 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 367 | 150 | 229 | 189 | | | | 936 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 28 | 16 | | | | 50 |
| B | 10 | 0 | 9 | 47 | | | | 67 |
| C | 44 | 13 | 0 | 18 | | | | 74 |
| D | 17 | 36 | 9 | 0 | | | | 62 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 71 | 56 | 46 | 80 | | | | 253 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 29 | 1 | | | | 40 |
| B | 12 | 0 | 2 | 246 | | | | 260 |
| C | 39 | 27 | 0 | 18 | | | | 83 |
| D | 2 | 154 | 11 | 0 | | | | 167 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 190 | 42 | 265 | | | | 551 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 294 | 48 | | | | 378 |
| B | 127 | 0 | 115 | 445 | | | | 687 |
| C | 489 | 158 | 0 | 63 | | | | 710 |
| D | 111 | 238 | 81 | 0 | | | | 430 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 727 | 432 | 490 | 556 | | | | 2205 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 260 | 31 | | | | 316 |
| B | 108 | 0 | 99 | 263 | | | | 470 |
| C | 423 | 138 | 0 | 46 | | | | 608 |
| D | 93 | 145 | 67 | 0 | | | | 305 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 624 | 308 | 427 | 340 | | | | 1700 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 27 | 15 | | | | 44 |
| B | 13 | 0 | 12 | 30 | | | | 55 |
| C | 47 | 17 | 0 | 9 | | | | 73 |
| D | 10 | 11 | 10 | 0 | | | | 31 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 70 | 32 | 48 | 54 | | | | 203 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 6 | 2 | | | | 16 |
| B | 6 | 0 | 4 | 153 | | | | 162 |
| C | 17 | 2 | 0 | 8 | | | | 27 |
| D | 8 | 81 | 4 | 0 | | | | 93 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 92 | 13 | 162 | | | | 298 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.95 | 0 | 1.98 | 0 | | | | 3.93 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Hareshill Road / Hill Top Road**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | *Harehills Rd EB* |
| B | 60036 | 60031 | 60031 | 60036 | *Hill Top Road* |
| C | 60230 | 7454 | 7454 | 60230 | *Harehills Rd SB* |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 117 | 318 | 47 | | | | 482 |
| B | 68 | 0 | 30 | 2 | | | | 100 |
| C | 555 | 66 | 0 | 157 | | | | 778 |
| D | 31 | 0 | 67 | 0 | | | | 98 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 654 | 183 | 415 | 206 | | | | 1458 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 165 | 37 | | | | 260 |
| B | 9 | 0 | 3 | 0 | | | | 12 |
| C | 383 | 40 | 0 | 63 | | | | 486 |
| D | 12 | 0 | 4 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 404 | 98 | 172 | 100 | | | | 774 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 32 | 6 | | | | 46 |
| B | 4 | 0 | 4 | 1 | | | | 9 |
| C | 64 | 5 | 0 | 19 | | | | 88 |
| D | 13 | 0 | 2 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 13 | 38 | 26 | | | | 158 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 121 | 4 | | | | 176 |
| B | 55 | 0 | 23 | 1 | | | | 79 |
| C | 108 | 21 | 0 | 75 | | | | 204 |
| D | 6 | 0 | 61 | 0 | | | | 67 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 169 | 72 | 205 | 80 | | | | 526 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 247 | 26 | | | | 344 |
| B | 79 | 0 | 50 | 1 | | | | 130 |
| C | 365 | 46 | 0 | 113 | | | | 524 |
| D | 57 | 2 | 94 | 0 | | | | 153 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 501 | 119 | 391 | 140 | | | | 1151 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 128 | 20 | | | | 170 |
| B | 26 | 0 | 17 | 0 | | | | 43 |
| C | 152 | 8 | 0 | 20 | | | | 180 |
| D | 32 | 1 | 17 | 0 | | | | 50 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 210 | 31 | 162 | 40 | | | | 443 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 38 | 5 | | | | 52 |
| B | 12 | 0 | 8 | 1 | | | | 21 |
| C | 50 | 7 | 0 | 22 | | | | 79 |
| D | 14 | 1 | 15 | 0 | | | | 30 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 76 | 17 | 61 | 28 | | | | 182 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 81 | 1 | | | | 122 |
| B | 41 | 0 | 25 | 0 | | | | 66 |
| C | 163 | 31 | 0 | 71 | | | | 265 |
| D | 11 | 0 | 62 | 0 | | | | 73 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 215 | 71 | 168 | 72 | | | | 526 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 49 | 294 | 12 | | | | 355 |
| B | 79 | 0 | 63 | 0 | | | | 142 |
| C | 418 | 24 | 0 | 52 | | | | 494 |
| D | 89 | 0 | 109 | 0 | | | | 198 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 586 | 73 | 466 | 64 | | | | 1189 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 236 | 11 | | | | 266 |
| B | 56 | 0 | 40 | 0 | | | | 96 |
| C | 261 | 11 | 0 | 10 | | | | 282 |
| D | 80 | 0 | 62 | 0 | | | | 142 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 397 | 30 | 338 | 21 | | | | 786 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 23 | 1 | | | | 26 |
| B | 3 | 0 | 8 | 0 | | | | 11 |
| C | 45 | 1 | 0 | 4 | | | | 50 |
| D | 8 | 0 | 5 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 3 | 36 | 5 | | | | 100 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 35 | 0 | | | | 63 |
| B | 20 | 0 | 15 | 0 | | | | 35 |
| C | 112 | 12 | 0 | 38 | | | | 162 |
| D | 1 | 0 | 42 | 0 | | | | 43 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 133 | 40 | 92 | 38 | | | | 303 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Hareshill Road / Pilsworth Road**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 186 | 245 | | | | | 431 |
| B | 322 | 0 | 238 | | | | | 561 |
| C | 394 | 262 | 0 | | | | | 656 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 716 | 448 | 484 | | | | | 1648 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 140 | 83 | | | | | 223 |
| B | 262 | 0 | 178 | | | | | 440 |
| C | 218 | 187 | 0 | | | | | 405 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 480 | 327 | 261 | | | | | 1068 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 12 | | | | | 34 |
| B | 35 | 0 | 35 | | | | | 69 |
| C | 40 | 42 | 0 | | | | | 81 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 63 | 47 | | | | | 184 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 150 | | | | | 174 |
| B | 26 | 0 | 26 | | | | | 52 |
| C | 136 | 33 | 0 | | | | | 170 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 162 | 58 | 176 | | | | | 396 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 240 | 206 | | | | | 446 |
| B | 198 | 0 | 137 | | | | | 335 |
| C | 327 | 174 | 0 | | | | | 501 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 525 | 414 | 343 | | | | | 1281 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 165 | 80 | | | | | 245 |
| B | 140 | 0 | 89 | | | | | 229 |
| C | 106 | 103 | 0 | | | | | 210 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 246 | 268 | 169 | | | | | 683 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 27 | | | | | 61 |
| B | 27 | 0 | 24 | | | | | 51 |
| C | 41 | 35 | 0 | | | | | 76 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 68 | 52 | | | | | 188 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 99 | | | | | 141 |
| B | 31 | 0 | 23 | | | | | 55 |
| C | 179 | 36 | 0 | | | | | 215 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 210 | 78 | 122 | | | | | 410 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 330 | 204 | | | | | 533 |
| B | 214 | 0 | 149 | | | | | 363 |
| C | 325 | 262 | 0 | | | | | 587 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 539 | 592 | 353 | | | | | 1483 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 297 | 144 | | | | | 441 |
| B | 183 | 0 | 120 | | | | | 303 |
| C | 174 | 224 | 0 | | | | | 398 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 357 | 521 | 264 | | | | | 1142 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 7 | | | | | 29 |
| B | 10 | 0 | 19 | | | | | 28 |
| C | 28 | 28 | 0 | | | | | 55 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 37 | 50 | 25 | | | | | 113 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 53 | | | | | 63 |
| B | 22 | 0 | 10 | | | | | 32 |
| C | 123 | 10 | 0 | | | | | 133 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 145 | 20 | 63 | | | | | 228 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Pilsworth Road / A58 Bury St**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED

| All Vehicle | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 489 | 153 | | | | | 642 |
| | B | 624 | 0 | 334 | | | | | 958 |
| | C | 179 | 307 | 0 | | | | | 486 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 804 | 795 | 487 | | | | | 2086 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 344 | 129 | | | | | 473 |
| | B | 412 | 0 | 239 | | | | | 651 |
| | C | 132 | 242 | 0 | | | | | 374 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 544 | 586 | 368 | | | | | 1498 |

MODELLED

| LGV | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 92 | 16 | | | | | 109 |
| | B | 117 | 0 | 29 | | | | | 146 |
| | C | 36 | 25 | 0 | | | | | 60 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 153 | 117 | 45 | | | | | 314 |

MODELLED

| HGV | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 42 | 8 | | | | | 50 |
| | B | 86 | 0 | 46 | | | | | 132 |
| | C | 12 | 22 | 0 | | | | | 34 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 97 | 65 | 54 | | | | | 216 |

MODELLED

| Fixed | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 10 | 0 | | | | | 10 |
| | B | 10 | 0 | 20 | | | | | 30 |
| | C | 0 | 18 | 0 | | | | | 18 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 10 | 28 | 20 | | | | | 57 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED

| All Vehicle | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 484 | 93 | | | | | 578 |
| | B | 487 | 0 | 255 | | | | | 742 |
| | C | 131 | 276 | 0 | | | | | 406 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 617 | 760 | 349 | | | | | 1726 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 336 | 72 | | | | | 408 |
| | B | 335 | 0 | 178 | | | | | 514 |
| | C | 102 | 183 | 0 | | | | | 286 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 438 | 519 | 250 | | | | | 1207 |

MODELLED

| LGV | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 73 | 16 | | | | | 89 |
| | B | 84 | 0 | 30 | | | | | 114 |
| | C | 18 | 31 | 0 | | | | | 48 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 102 | 104 | 46 | | | | | 252 |

MODELLED

| HGV | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 65 | 6 | | | | | 71 |
| | B | 57 | 0 | 27 | | | | | 84 |
| | C | 10 | 44 | 0 | | | | | 54 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 68 | 109 | 32 | | | | | 209 |

MODELLED

| Fixed | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 10 | 0 | | | | | 10 |
| | B | 10 | 0 | 20 | | | | | 30 |
| | C | 0 | 18 | 0 | | | | | 18 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 9.91 | 27.89 | 19.82 | | | | | 57.62 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED

| All Vehicle | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 530 | 101 | | | | | 631 |
| | B | 571 | 0 | 305 | | | | | 876 |
| | C | 188 | 310 | 0 | | | | | 498 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 759 | 841 | 406 | | | | | 2006 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 477 | 89 | | | | | 566 |
| | B | 501 | 0 | 252 | | | | | 754 |
| | C | 169 | 267 | 0 | | | | | 437 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 671 | 744 | 342 | | | | | 1756 |

MODELLED

| LGV | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 37 | 10 | | | | | 47 |
| | B | 48 | 0 | 23 | | | | | 71 |
| | C | 15 | 22 | 0 | | | | | 37 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 63 | 59 | 33 | | | | | 155 |

MODELLED

| HGV | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 8 | 2 | | | | | 10 |
| | B | 14 | 0 | 10 | | | | | 25 |
| | C | 3 | 3 | 0 | | | | | 6 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 17 | 11 | 12 | | | | | 41 |

MODELLED

| Fixed | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 8 | 0 | | | | | 8 |
| | B | 8 | 0 | 20 | | | | | 28 |
| | C | 0 | 18 | 0 | | | | | 18 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 7.86 | 25.79 | 19.66 | | | | | 53.31 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Pilsworth Road / Heywood Distribution Centre**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | *Pilsworth Rd NB* |
| B | 20430 | 7459 | 7459 | 20430 | */wood Distribution Cer* |
| C | 2813 | 7459 | 7459 | 2813 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 282 | 275 | | | | | 557 |
| B | 134 | 0 | 156 | | | | | 290 |
| C | 505 | 211 | 0 | | | | | 716 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 639 | 493 | 431 | | | | | 1563 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 160 | 183 | | | | | 343 |
| B | 23 | 0 | 40 | | | | | 63 |
| C | 362 | 118 | 0 | | | | | 479 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 384 | 278 | 223 | | | | | 885 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 15 | | | | | 36 |
| B | 20 | 0 | 19 | | | | | 39 |
| C | 56 | 19 | 0 | | | | | 74 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 40 | 34 | | | | | 149 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 101 | 77 | | | | | 178 |
| B | 91 | 0 | 97 | | | | | 188 |
| C | 88 | 74 | 0 | | | | | 162 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 179 | 175 | 174 | | | | | 529 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 127 | 276 | | | | | 403 |
| B | 201 | 0 | 170 | | | | | 372 |
| C | 298 | 227 | 0 | | | | | 525 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 499 | 354 | 446 | | | | | 1299 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 174 | | | | | 234 |
| B | 84 | 0 | 71 | | | | | 155 |
| C | 184 | 63 | 0 | | | | | 246 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 268 | 123 | 245 | | | | | 636 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 36 | | | | | 55 |
| B | 29 | 0 | 24 | | | | | 54 |
| C | 37 | 31 | 0 | | | | | 68 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 67 | 50 | 61 | | | | | 177 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 66 | | | | | 114 |
| B | 88 | 0 | 75 | | | | | 163 |
| C | 77 | 134 | 0 | | | | | 210 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 165 | 181 | 141 | | | | | 487 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 399 | | | | | 450 |
| B | 194 | 0 | 135 | | | | | 329 |
| C | 399 | 140 | 0 | | | | | 539 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 593 | 191 | 533 | | | | | 1318 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 340 | | | | | 368 |
| B | 152 | 0 | 101 | | | | | 253 |
| C | 309 | 48 | 0 | | | | | 357 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 460 | 76 | 441 | | | | | 977 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 24 | | | | | 27 |
| B | 13 | 0 | 5 | | | | | 18 |
| C | 25 | 12 | 0 | | | | | 37 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 15 | 29 | | | | | 83 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 35 | | | | | 55 |
| B | 30 | 0 | 28 | | | | | 58 |
| C | 65 | 80 | 0 | | | | | 145 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 100 | 63 | | | | | 258 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Pilsworth Road / JPA1.1 & SHDA employment**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | *Pilsworth Rd SB* |
| B | 60027 | 60229 | 60229 | 60027 | *SHDA* |
| C | 60024 | 60229 | 60229 | 60024 | *Pilsworth Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 620 | | | | | 639 |
| B | 13 | 0 | 14 | | | | | 27 |
| C | 544 | 31 | 0 | | | | | 575 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 557 | 51 | 634 | | | | | 1241 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 376 | | | | | 384 |
| B | 3 | 0 | 3 | | | | | 6 |
| C | 340 | 14 | 0 | | | | | 353 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 343 | 22 | 379 | | | | | 743 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 73 | | | | | 75 |
| B | 1 | 0 | 2 | | | | | 4 |
| C | 35 | 3 | 0 | | | | | 38 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 36 | 6 | 75 | | | | | 117 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 170 | | | | | 179 |
| B | 9 | 0 | 9 | | | | | 18 |
| C | 170 | 14 | 0 | | | | | 183 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 178 | 23 | 180 | | | | | 381 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 486 | | | | | 499 |
| B | 18 | 0 | 24 | | | | | 42 |
| C | 385 | 26 | 0 | | | | | 411 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 403 | 39 | 511 | | | | | 952 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 263 | | | | | 268 |
| B | 5 | 0 | 8 | | | | | 13 |
| C | 229 | 6 | 0 | | | | | 236 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 234 | 11 | 271 | | | | | 516 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 65 | | | | | 67 |
| B | 3 | 0 | 4 | | | | | 7 |
| C | 52 | 5 | 0 | | | | | 57 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 55 | 7 | 69 | | | | | 131 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 159 | | | | | 165 |
| B | 10 | 0 | 12 | | | | | 22 |
| C | 104 | 15 | 0 | | | | | 119 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 114 | 20 | 171 | | | | | 305 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 586 | | | | | 593 |
| B | 16 | 0 | 26 | | | | | 42 |
| C | 434 | 11 | 0 | | | | | 445 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 450 | 18 | 612 | | | | | 1080 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 458 | | | | | 460 |
| B | 9 | 0 | 17 | | | | | 26 |
| C | 358 | 3 | 0 | | | | | 361 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 368 | 5 | 475 | | | | | 847 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 38 | | | | | 38 |
| B | 1 | 0 | 2 | | | | | 3 |
| C | 27 | 1 | 0 | | | | | 27 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 27 | 1 | 40 | | | | | 68 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 90 | | | | | 94 |
| B | 6 | 0 | 7 | | | | | 13 |
| C | 49 | 7 | 0 | | | | | 57 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 55 | 12 | 97 | | | | | 164 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **3 Arrows (Pilsworth Road / Moss Hall Road - South)**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 56 | 578 | | | | | 634 |
| B | 80 | 0 | 216 | | | | | 295 |
| C | 495 | 140 | 0 | | | | | 635 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 575 | 196 | 793 | | | | | 1564 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 342 | | | | | 379 |
| B | 43 | 0 | 164 | | | | | 207 |
| C | 310 | 105 | 0 | | | | | 415 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 353 | 142 | 506 | | | | | 1001 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 69 | | | | | 75 |
| B | 12 | 0 | 34 | | | | | 46 |
| C | 26 | 17 | 0 | | | | | 42 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 22 | 104 | | | | | 164 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 166 | | | | | 180 |
| B | 24 | 0 | 17 | | | | | 42 |
| C | 159 | 19 | 0 | | | | | 178 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 183 | 32 | 183 | | | | | 399 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 459 | | | | | 511 |
| B | 49 | 0 | 168 | | | | | 217 |
| C | 362 | 136 | 0 | | | | | 499 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 411 | 188 | 627 | | | | | 1227 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 242 | | | | | 271 |
| B | 23 | 0 | 113 | | | | | 137 |
| C | 213 | 73 | 0 | | | | | 285 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 236 | 101 | 355 | | | | | 693 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 58 | | | | | 69 |
| B | 9 | 0 | 19 | | | | | 28 |
| C | 48 | 17 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 28 | 77 | | | | | 162 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 159 | | | | | 171 |
| B | 17 | 0 | 36 | | | | | 53 |
| C | 102 | 47 | 0 | | | | | 149 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 119 | 59 | 195 | | | | | 373 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 570 | | | | | 612 |
| B | 52 | 0 | 201 | | | | | 253 |
| C | 393 | 156 | 0 | | | | | 549 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 445 | 197 | 772 | | | | | 1414 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 451 | | | | | 475 |
| B | 46 | 0 | 180 | | | | | 225 |
| C | 315 | 117 | 0 | | | | | 432 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 361 | 141 | 630 | | | | | 1132 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 36 | | | | | 40 |
| B | 3 | 0 | 12 | | | | | 14 |
| C | 25 | 14 | 0 | | | | | 39 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 27 | 18 | 48 | | | | | 93 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 84 | | | | | 97 |
| B | 4 | 0 | 10 | | | | | 14 |
| C | 53 | 25 | 0 | | | | | 78 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 38 | 94 | | | | | 189 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Fowler Welch (Pilsworth Road / Moss Hall Road - North)**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7460 | 2038 | 2038 | 7460 | *Moss Hall Rd NB* |
| B | 60213 | 2038 | 2038 | 60213 | *Pilsworth Road* |
| C | 60228 | 2038 | 2038 | 60228 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 717 | 76 | | | | | 794 |
| B | 424 | 0 | 71 | | | | | 495 |
| C | 226 | 64 | 0 | | | | | 289 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 649 | 781 | 147 | | | | | 1578 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 475 | 25 | | | | | 500 |
| B | 233 | 0 | 49 | | | | | 281 |
| C | 186 | 42 | 0 | | | | | 228 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 419 | 517 | 73 | | | | | 1009 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 55 | 47 | | | | | 102 |
| B | 24 | 0 | 9 | | | | | 33 |
| C | 22 | 14 | 0 | | | | | 36 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 46 | 70 | 56 | | | | | 172 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 187 | 5 | | | | | 192 |
| B | 166 | 0 | 13 | | | | | 180 |
| C | 18 | 7 | 0 | | | | | 25 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 184 | 194 | 18 | | | | | 396 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 485 | 155 | | | | | 640 |
| B | 384 | 0 | 71 | | | | | 455 |
| C | 125 | 56 | 0 | | | | | 181 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 509 | 541 | 225 | | | | | 1275 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 236 | 121 | | | | | 357 |
| B | 199 | 0 | 53 | | | | | 253 |
| C | 85 | 45 | 0 | | | | | 130 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 284 | 281 | 175 | | | | | 740 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 55 | 21 | | | | | 76 |
| B | 43 | 0 | 11 | | | | | 54 |
| C | 22 | 8 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 65 | 63 | 32 | | | | | 159 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 193 | 13 | | | | | 206 |
| B | 142 | 0 | 6 | | | | | 148 |
| C | 19 | 3 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 160 | 196 | 19 | | | | | 376 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 551 | 216 | | | | | 767 |
| B | 344 | 0 | 155 | | | | | 499 |
| C | 215 | 40 | 0 | | | | | 255 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 558 | 591 | 371 | | | | | 1520 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 435 | 193 | | | | | 627 |
| B | 253 | 0 | 135 | | | | | 388 |
| C | 184 | 36 | 0 | | | | | 220 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 437 | 471 | 328 | | | | | 1236 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 13 | | | | | 49 |
| B | 22 | 0 | 18 | | | | | 40 |
| C | 16 | 4 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 39 | 40 | 31 | | | | | 110 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 80 | 10 | | | | | 90 |
| B | 68 | 0 | 2 | | | | | 70 |
| C | 14 | 0 | 0 | | | | | 14 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 83 | 80 | 12 | | | | | 175 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | *JTC 11- Pilsworth Rd E* |
| B | 3001 | 60238 | 60239 | 3000 | *JTC 11 - M66 SB Off* |
| C | 60213 | 60000 | 60000 | 60213 | *JTC 11 - Pilsworth Rd W* |
| D | 60236 | 4918 | 60240 | 2998 | *JTC 11 - M66 NB Off* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 363 | 192 | 323 | | | | 878 |
| | B | 483 | 0 | 0 | 0 | | | | 483 |
| | C | 301 | 194 | 0 | 287 | | | | 782 |
| | D | 594 | 0 | 303 | 0 | | | | 897 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 1378 | 557 | 495 | 610 | | | | 3040 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 266 | 158 | 231 | | | | 655 |
| | B | 402 | 0 | 0 | 0 | | | | 402 |
| | C | 246 | 154 | 0 | 118 | | | | 518 |
| | D | 489 | 0 | 124 | 0 | | | | 613 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 1137 | 420 | 282 | 349 | | | | 2188 |

MODELLED

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 60 | 8 | 73 | | | | 141 |
| | B | 48 | 0 | 0 | 0 | | | | 48 |
| | C | 35 | 8 | 0 | 27 | | | | 70 |
| | D | 56 | 0 | 25 | 0 | | | | 81 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 139 | 68 | 33 | 100 | | | | 340 |

MODELLED

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 37 | 26 | 19 | | | | 82 |
| | B | 33 | 0 | 0 | 0 | | | | 33 |
| | C | 20 | 32 | 0 | 142 | | | | 194 |
| | D | 49 | 0 | 154 | 0 | | | | 203 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 102 | 69 | 180 | 161 | | | | 512 |

MODELLED

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | | | | | | | | 0 |
| | B | | | | | | | | 0 |
| | C | | | | | | | | 0 |
| | D | | | | | | | | 0 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 402 | 188 | 352 | | | | 942 |
| | B | 357 | 0 | 5 | 0 | | | | 362 |
| | C | 196 | 65 | 0 | 279 | | | | 540 |
| | D | 356 | 0 | 263 | 0 | | | | 619 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 909 | 467 | 456 | 631 | | | | 2463 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 316 | 154 | 248 | | | | 718 |
| | B | 269 | 0 | 5 | 0 | | | | 274 |
| | C | 166 | 36 | 0 | 79 | | | | 281 |
| | D | 250 | 0 | 95 | 0 | | | | 345 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 685 | 352 | 254 | 327 | | | | 1618 |

MODELLED

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 46 | 17 | 52 | | | | 115 |
| | B | 45 | 0 | 0 | 0 | | | | 45 |
| | C | 19 | 10 | 0 | 34 | | | | 63 |
| | D | 50 | 0 | 37 | 0 | | | | 87 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 114 | 56 | 54 | 86 | | | | 310 |

MODELLED

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 40 | 17 | 52 | | | | 109 |
| | B | 43 | 0 | 0 | 0 | | | | 43 |
| | C | 11 | 19 | 0 | 166 | | | | 196 |
| | D | 56 | 0 | 131 | 0 | | | | 187 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 110 | 59 | 148 | 218 | | | | 535 |

MODELLED

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | | | | | | | | 0 |
| | B | | | | | | | | 0 |
| | C | | | | | | | | 0 |
| | D | | | | | | | | 0 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 378 | 282 | 491 | | | | 1151 |
| | B | 323 | 0 | 4 | 0 | | | | 327 |
| | C | 270 | 76 | 0 | 245 | | | | 591 |
| | D | 481 | 0 | 212 | 0 | | | | 693 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 1074 | 454 | 498 | 736 | | | | 2762 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 344 | 255 | 464 | | | | 1063 |
| | B | 287 | 0 | 4 | 0 | | | | 291 |
| | C | 243 | 66 | 0 | 162 | | | | 471 |
| | D | 375 | 0 | 129 | 0 | | | | 504 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 905 | 410 | 388 | 626 | | | | 2329 |

MODELLED

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 20 | 17 | 24 | | | | 61 |
| | B | 27 | 0 | 0 | 0 | | | | 27 |
| | C | 16 | 10 | 0 | 14 | | | | 40 |
| | D | 53 | 0 | 23 | 0 | | | | 76 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 96 | 30 | 40 | 38 | | | | 204 |

MODELLED

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 14 | 10 | 3 | | | | 27 |
| | B | 9 | 0 | 0 | 0 | | | | 9 |
| | C | 11 | 0 | 0 | 69 | | | | 80 |
| | D | 53 | 0 | 60 | 0 | | | | 113 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 73 | 14 | 70 | 72 | | | | 229 |

MODELLED

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | | | | | | | | 0 |
| | B | | | | | | | | 0 |
| | C | | | | | | | | 0 |
| | D | | | | | | | | 0 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 0 | 0 | 0 | 0 | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **M66 J2**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N\|12 - M66 NB Off |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water\| 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 143 | 103 | 250 | 1275 | 51 | | 1822 |
| B | 257 | 0 | 24 | 327 | 0 | 34 | | 642 |
| C | 59 | 3 | 0 | 6 | 20 | 0 | | 88 |
| D | 608 | 247 | 23 | 0 | 272 | 65 | | 1215 |
| E | 1466 | 0 | 65 | 141 | 0 | 100 | | 1772 |
| F | 36 | 5 | 1 | 35 | 27 | 0 | | 104 |
| G | | | | | | | | |
| TOTAL | 2426 | 398 | 216 | 759 | 1594 | 250 | | 5643 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 112 | 43 | 222 | 986 | 47 | | 1410 |
| B | 238 | 0 | 22 | 248 | 0 | 29 | | 537 |
| C | 10 | 1 | 0 | 3 | 7 | 0 | | 21 |
| D | 533 | 166 | 20 | 0 | 174 | 37 | | 930 |
| E | 1122 | 0 | 50 | 74 | 0 | 92 | | 1338 |
| F | 30 | 3 | 1 | 22 | 19 | 0 | | 75 |
| G | | | | | | | | |
| TOTAL | 1933 | 282 | 136 | 569 | 1186 | 205 | | 4311 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 29 | 23 | 177 | 3 | | 257 |
| B | 15 | 0 | 2 | 53 | 0 | 1 | | 71 |
| C | 34 | 2 | 0 | 3 | 8 | 0 | | 47 |
| D | 46 | 40 | 3 | 0 | 49 | 10 | | 148 |
| E | 155 | 0 | 7 | 42 | 0 | 5 | | 209 |
| F | 2 | 1 | 0 | 4 | 4 | 0 | | 11 |
| G | | | | | | | | |
| TOTAL | 252 | 68 | 41 | 125 | 238 | 19 | | 743 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 31 | 5 | 112 | 1 | | 155 |
| B | 4 | 0 | 0 | 26 | 0 | 4 | | 34 |
| C | 15 | 0 | 0 | 0 | 5 | 0 | | 20 |
| D | 29 | 41 | 0 | 0 | 49 | 18 | | 137 |
| E | 189 | 0 | 8 | 25 | 0 | 3 | | 225 |
| F | 4 | 1 | 0 | 9 | 4 | 0 | | 18 |
| G | | | | | | | | |
| TOTAL | 241 | 48 | 39 | 65 | 170 | 26 | | 589 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 184 | 112 | 294 | 1140 | 30 | | 1760 |
| B | 213 | 0 | 20 | 212 | 0 | 11 | | 456 |
| C | 78 | 13 | 0 | 13 | 32 | 1 | | 137 |
| D | 377 | 150 | 25 | 0 | 166 | 58 | | 776 |
| E | 1198 | 0 | 45 | 163 | 0 | 41 | | 1447 |
| F | 38 | 13 | 2 | 41 | 50 | 0 | | 144 |
| G | | | | | | | | |
| TOTAL | 1904 | 360 | 204 | 723 | 1388 | 141 | | 4720 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 138 | 57 | 248 | 806 | 26 | | 1275 |
| B | 176 | 0 | 15 | 120 | 0 | 8 | | 319 |
| C | 28 | 8 | 0 | 10 | 20 | 1 | | 67 |
| D | 315 | 94 | 21 | 0 | 85 | 28 | | 543 |
| E | 844 | 0 | 35 | 86 | 0 | 31 | | 996 |
| F | 34 | 10 | 2 | 26 | 38 | 0 | | 110 |
| G | | | | | | | | |
| TOTAL | 1397 | 250 | 130 | 490 | 949 | 94 | | 3310 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 35 | 31 | 180 | 2 | | 274 |
| B | 20 | 0 | 3 | 31 | 0 | 1 | | 55 |
| C | 40 | 3 | 0 | 3 | 7 | 0 | | 53 |
| D | 45 | 32 | 4 | 0 | 30 | 12 | | 123 |
| E | 191 | 0 | 7 | 40 | 0 | 4 | | 242 |
| F | 3 | 2 | 0 | 8 | 4 | 0 | | 17 |
| G | | | | | | | | |
| TOTAL | 299 | 63 | 49 | 113 | 221 | 19 | | 764 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 20 | 15 | 154 | 2 | | 211 |
| B | 17 | 0 | 2 | 61 | 0 | 2 | | 82 |
| C | 10 | 2 | 0 | 0 | 5 | 0 | | 17 |
| D | 17 | 24 | 0 | 0 | 51 | 18 | | 110 |
| E | 163 | 0 | 3 | 37 | 0 | 6 | | 209 |
| F | 1 | 1 | 0 | 7 | 8 | 0 | | 17 |
| G | | | | | | | | |
| TOTAL | 208 | 47 | 25 | 120 | 218 | 28 | | 646 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 1 | 246 | 33 | 483 | 1250 | 40 | | 2053 |
| B | 268 | 0 | 6 | 208 | 0 | 13 | | 495 |
| C | 50 | 13 | 0 | 22 | 43 | 1 | | 129 |
| D | 512 | 177 | 12 | 0 | 225 | 67 | | 993 |
| E | 1401 | 0 | 18 | 246 | 0 | 49 | | 1714 |
| F | 41 | 17 | 0 | 57 | 103 | 0 | | 218 |
| G | | | | | | | | |
| TOTAL | 2273 | 453 | 69 | 1016 | 1621 | 170 | | 5602 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 1 | 233 | 18 | 453 | 1147 | 38 | | 1890 |
| B | 249 | 0 | 5 | 175 | 0 | 12 | | 441 |
| C | 23 | 12 | 0 | 20 | 40 | 1 | | 96 |
| D | 481 | 155 | 10 | 0 | 175 | 57 | | 878 |
| E | 1239 | 0 | 15 | 204 | 0 | 38 | | 1496 |
| F | 38 | 16 | 0 | 52 | 96 | 0 | | 202 |
| G | | | | | | | | |
| TOTAL | 2031 | 416 | 48 | 904 | 1458 | 146 | | 5003 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 13 | 24 | 77 | 2 | | 128 |
| B | 16 | 0 | 1 | 23 | 0 | 1 | | 41 |
| C | 23 | 1 | 0 | 2 | 3 | 0 | | 29 |
| D | 23 | 18 | 2 | 0 | 29 | 9 | | 81 |
| E | 122 | 0 | 3 | 27 | 0 | 5 | | 157 |
| F | 2 | 1 | 0 | 4 | 2 | 0 | | 9 |
| G | | | | | | | | |
| TOTAL | 186 | 32 | 19 | 80 | 111 | 17 | | 445 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 6 | 26 | 0 | | 35 |
| B | 3 | 0 | 0 | 10 | 0 | 0 | | 13 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 8 | 4 | 0 | 0 | 21 | 1 | | 34 |
| E | 40 | 0 | 0 | 15 | 0 | 6 | | 61 |
| F | 1 | 0 | 0 | 1 | 5 | 0 | | 7 |
| G | | | | | | | | |
| TOTAL | 56 | 5 | 2 | 32 | 52 | 7 | | 154 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Whittle Lane / A6045 Heywood Old Road**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | *Heywood Old Road NE* |
| B | 60074 | 2478 | 2478 | 60074 | *Whittle Lane* |
| C | 4730 | 2478 | 2478 | 4730 | *Heywood Old Road SE* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 68 | 329 | | | | | 397 |
| B | 23 | 0 | 104 | | | | | 128 |
| C | 548 | 211 | 0 | | | | | 758 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 571 | 279 | 433 | | | | | 1282 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 241 | | | | | 300 |
| B | 20 | 0 | 90 | | | | | 110 |
| C | 405 | 176 | 0 | | | | | 581 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 425 | 235 | 331 | | | | | 990 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 36 | | | | | 46 |
| B | 3 | 0 | 14 | | | | | 17 |
| C | 98 | 35 | 0 | | | | | 133 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 101 | 44 | 50 | | | | | 195 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 50 | | | | | 50 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 45 | 0 | 0 | | | | | 45 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 45 | 0 | 50 | | | | | 95 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 475 | | | | | 502 |
| B | 24 | 0 | 97 | | | | | 121 |
| C | 311 | 129 | 0 | | | | | 441 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 336 | 156 | 572 | | | | | 1064 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 320 | | | | | 340 |
| B | 17 | 0 | 79 | | | | | 97 |
| C | 237 | 108 | 0 | | | | | 345 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 255 | 128 | 399 | | | | | 782 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 71 | | | | | 78 |
| B | 7 | 0 | 18 | | | | | 25 |
| C | 37 | 22 | 0 | | | | | 59 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 44 | 29 | 89 | | | | | 162 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 82 | | | | | 82 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 37 | 0 | 0 | | | | | 37 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 37 | 0 | 82 | | | | | 118 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.99 | | | | | 1.99 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 771 | | | | | 812 |
| B | 45 | 0 | 156 | | | | | 201 |
| C | 397 | 153 | 0 | | | | | 550 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 442 | 194 | 928 | | | | | 1563 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 660 | | | | | 698 |
| B | 44 | 0 | 139 | | | | | 183 |
| C | 354 | 143 | 0 | | | | | 497 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 398 | 181 | 799 | | | | | 1378 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 85 | | | | | 87 |
| B | 1 | 0 | 17 | | | | | 18 |
| C | 35 | 10 | 0 | | | | | 45 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 36 | 13 | 102 | | | | | 151 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 24 | | | | | 24 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 8 | 0 | 0 | | | | | 8 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 8 | 0 | 24 | | | | | 32 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.94 | | | | | 1.94 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A6045 Heywood Old Road / Langley Lane**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | *Heywood Old Road SE* |
| B | 15238 | 4730 | 4730 | 15238 | *Langley Lane* |
| C | 2478 | 4730 | 4730 | 2478 | *Heywood Old Road NE* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 84 | 391 | | | | | 475 |
| B | 92 | 0 | 367 | | | | | 459 |
| C | 276 | 157 | 0 | | | | | 433 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 368 | 241 | 758 | | | | | 1367 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 70 | 270 | | | | | 340 |
| B | 84 | 0 | 311 | | | | | 395 |
| C | 193 | 138 | 0 | | | | | 331 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 278 | 208 | 581 | | | | | 1067 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 84 | | | | | 90 |
| B | 5 | 0 | 49 | | | | | 53 |
| C | 33 | 17 | 0 | | | | | 50 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 23 | 133 | | | | | 193 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 37 | | | | | 43 |
| B | 3 | 0 | 7 | | | | | 11 |
| C | 49 | 0 | 0 | | | | | 50 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 6 | 45 | | | | | 103 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 235 | | | | | 279 |
| B | 52 | 0 | 205 | | | | | 257 |
| C | 399 | 173 | 0 | | | | | 572 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 451 | 216 | 441 | | | | | 1107 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 164 | | | | | 202 |
| B | 41 | 0 | 181 | | | | | 222 |
| C | 261 | 139 | 0 | | | | | 399 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 301 | 176 | 345 | | | | | 822 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 35 | | | | | 38 |
| B | 5 | 0 | 24 | | | | | 29 |
| C | 63 | 26 | 0 | | | | | 89 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 28 | 59 | | | | | 156 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 36 | | | | | 37 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 75 | 7 | 0 | | | | | 82 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 79 | 7 | 37 | | | | | 123 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.98 | 0 | | | | | 5.98 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 306 | | | | | 380 |
| B | 65 | 0 | 244 | | | | | 309 |
| C | 637 | 290 | 0 | | | | | 928 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 702 | 364 | 550 | | | | | 1616 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 271 | | | | | 334 |
| B | 59 | 0 | 226 | | | | | 285 |
| C | 548 | 251 | 0 | | | | | 799 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 607 | 314 | 497 | | | | | 1418 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 28 | | | | | 35 |
| B | 4 | 0 | 17 | | | | | 21 |
| C | 66 | 36 | 0 | | | | | 102 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 69 | 44 | 45 | | | | | 158 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 8 | | | | | 9 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 23 | 1 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 2 | 8 | | | | | 34 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 3.92 | 0 | | | | | 5.9 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Langley Lane / A6046 Hollin Lane**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 147 | 670 | | | | | 817 |
| B | 137 | 0 | 69 | | | | | 206 |
| C | 664 | 10 | 0 | | | | | 673 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 801 | 157 | 739 | | | | | 1696 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 92 | 532 | | | | | 624 |
| B | 114 | 0 | 67 | | | | | 181 |
| C | 383 | 9 | 0 | | | | | 392 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 497 | 101 | 598 | | | | | 1197 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 86 | | | | | 133 |
| B | 18 | 0 | 1 | | | | | 19 |
| C | 149 | 0 | 0 | | | | | 149 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 167 | 48 | 87 | | | | | 302 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 33 | | | | | 40 |
| B | 1 | 0 | 1 | | | | | 2 |
| C | 103 | 0 | 0 | | | | | 103 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 103 | 7 | 34 | | | | | 144 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 20 | | | | | 20 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 0 | 20 | | | | | 53 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 133 | 772 | | | | | 905 |
| B | 94 | 0 | 20 | | | | | 114 |
| C | 560 | 16 | 0 | | | | | 576 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 654 | 150 | 792 | | | | | 1595 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 107 | 519 | | | | | 627 |
| B | 63 | 0 | 19 | | | | | 82 |
| C | 395 | 16 | 0 | | | | | 411 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 458 | 123 | 539 | | | | | 1120 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 129 | | | | | 153 |
| B | 22 | 0 | 1 | | | | | 23 |
| C | 89 | 0 | 0 | | | | | 89 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 111 | 24 | 129 | | | | | 265 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 104 | | | | | 104 |
| B | 5 | 0 | 0 | | | | | 5 |
| C | 52 | 0 | 0 | | | | | 52 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 1 | 104 | | | | | 161 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.82 | 2 | 19.97 | | | | | 49.79 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 175 | 819 | | | | | 994 |
| B | 105 | 0 | 13 | | | | | 118 |
| C | 702 | 51 | 0 | | | | | 753 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 807 | 226 | 832 | | | | | 1865 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 157 | 686 | | | | | 842 |
| B | 71 | 0 | 13 | | | | | 84 |
| C | 557 | 50 | 0 | | | | | 607 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 628 | 207 | 698 | | | | | 1533 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 80 | | | | | 96 |
| B | 29 | 0 | 0 | | | | | 29 |
| C | 94 | 1 | 0 | | | | | 94 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 123 | 17 | 80 | | | | | 220 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 26 | | | | | 26 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 28 | 0 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 29 | 0 | 26 | | | | | 55 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 28 | | | | | 30 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.54 | 1.97 | 27.57 | | | | | 57.08 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A6045 Manchester Road / Coronation Avenue**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 117 | 317 | | | | | 433 |
| B | 406 | 0 | 21 | | | | | 427 |
| C | 423 | 152 | 0 | | | | | 575 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 829 | 269 | 337 | | | | | 1435 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 228 | | | | | 228 |
| B | 271 | 0 | 9 | | | | | 280 |
| C | 369 | 110 | 0 | | | | | 479 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 640 | 110 | 237 | | | | | 987 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 66 | | | | | 66 |
| B | 45 | 0 | 9 | | | | | 54 |
| C | 30 | 36 | 0 | | | | | 66 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 36 | 75 | | | | | 185 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 87 | 19 | | | | | 106 |
| B | 70 | 0 | 3 | | | | | 73 |
| C | 25 | 6 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 93 | 22 | | | | | 210 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 4 | | | | | 33 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 20 | 29 | 4 | | | | | 53 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 94 | 274 | | | | | 368 |
| B | 202 | 0 | 57 | | | | | 259 |
| C | 402 | 109 | 0 | | | | | 511 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 604 | 204 | 331 | | | | | 1139 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 189 | | | | | 189 |
| B | 72 | 0 | 9 | | | | | 80 |
| C | 279 | 71 | 0 | | | | | 350 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 351 | 71 | 198 | | | | | 619 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 46 | | | | | 46 |
| B | 8 | 0 | 40 | | | | | 48 |
| C | 82 | 27 | 0 | | | | | 108 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 89 | 27 | 86 | | | | | 202 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 33 | | | | | 104 |
| B | 102 | 0 | 9 | | | | | 111 |
| C | 39 | 12 | 0 | | | | | 51 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 142 | 83 | 42 | | | | | 266 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.9 | 23.83 | 5.96 | | | | | 51.69 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 349 | | | | | 399 |
| B | 399 | 0 | 17 | | | | | 416 |
| C | 526 | 97 | 0 | | | | | 623 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 925 | 147 | 366 | | | | | 1438 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 293 | | | | | 293 |
| B | 306 | 0 | 2 | | | | | 309 |
| C | 453 | 79 | 0 | | | | | 531 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 759 | 79 | 295 | | | | | 1133 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 34 | | | | | 34 |
| B | 35 | 0 | 13 | | | | | 48 |
| C | 45 | 16 | 0 | | | | | 61 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 80 | 16 | 47 | | | | | 144 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 18 | | | | | 45 |
| B | 31 | 0 | 1 | | | | | 32 |
| C | 26 | 2 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 29 | 19 | | | | | 105 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 4 | | | | | 28 |
| B | 27 | 0 | 0 | | | | | 27 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.42 | 23.69 | 3.95 | | | | | 57.06 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Hollins Brow / Hollins Lane**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 322 | 468 | | | | | 790 |
| B | 192 | 0 | 62 | | | | | 254 |
| C | 668 | 64 | 0 | | | | | 732 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 860 | 386 | 531 | | | | | 1777 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 294 | 398 | | | | | 692 |
| B | 151 | 0 | 49 | | | | | 200 |
| C | 568 | 47 | 0 | | | | | 615 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 719 | 341 | 447 | | | | | 1507 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 53 | | | | | 75 |
| B | 36 | 0 | 7 | | | | | 43 |
| C | 67 | 10 | 0 | | | | | 77 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 103 | 31 | 60 | | | | | 195 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 17 | | | | | 19 |
| B | 1 | 0 | 0 | | | | | 2 |
| C | 33 | 2 | 0 | | | | | 34 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 4 | 17 | | | | | 55 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 167 | 491 | | | | | 658 |
| B | 156 | 0 | 45 | | | | | 201 |
| C | 538 | 56 | 0 | | | | | 594 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 694 | 223 | 537 | | | | | 1453 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 134 | 397 | | | | | 531 |
| B | 121 | 0 | 30 | | | | | 151 |
| C | 430 | 37 | 0 | | | | | 467 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 551 | 171 | 427 | | | | | 1149 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 59 | | | | | 83 |
| B | 24 | 0 | 9 | | | | | 32 |
| C | 69 | 13 | 0 | | | | | 82 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 93 | 37 | 68 | | | | | 198 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 35 | | | | | 41 |
| B | 8 | 0 | 1 | | | | | 8 |
| C | 38 | 1 | 0 | | | | | 39 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 46 | 7 | 36 | | | | | 89 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 4 | 7.97 | 6 | | | | | 17.97 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 282 | 547 | | | | | 829 |
| B | 138 | 0 | 40 | | | | | 177 |
| C | 627 | 55 | 0 | | | | | 682 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 765 | 337 | 587 | | | | | 1689 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 253 | 499 | | | | | 752 |
| B | 117 | 0 | 28 | | | | | 146 |
| C | 566 | 39 | 0 | | | | | 604 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 683 | 292 | 527 | | | | | 1502 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 42 | | | | | 66 |
| B | 11 | 0 | 5 | | | | | 16 |
| C | 38 | 10 | 0 | | | | | 48 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 34 | 47 | | | | | 131 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 6 | | | | | 7 |
| B | 7 | 0 | 0 | | | | | 7 |
| C | 23 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 1 | 6 | | | | | 38 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 9.86 | 5.96 | | | | | 17.81 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Hollins Brow / A56 Manchester Road**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 595 | 615 | | | | | 1210 |
| | B | 381 | 0 | 150 | | | | | 531 |
| | C | 907 | 138 | 0 | | | | | 1044 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 1288 | 732 | 765 | | | | | 2785 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 519 | 496 | | | | | 1015 |
| | B | 329 | 0 | 118 | | | | | 447 |
| | C | 791 | 96 | 0 | | | | | 888 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 1120 | 615 | 614 | | | | | 2349 |

MODELLED

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 53 | 63 | | | | | 116 |
| | B | 39 | 0 | 22 | | | | | 60 |
| | C | 66 | 24 | 0 | | | | | 91 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 105 | 77 | 85 | | | | | 267 |

MODELLED

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 17 | 36 | | | | | 53 |
| | B | 7 | 0 | 10 | | | | | 17 |
| | C | 29 | 17 | 0 | | | | | 46 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 37 | 34 | 46 | | | | | 117 |

MODELLED

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 6 | 20 | | | | | 26 |
| | B | 6 | 0 | 0 | | | | | 6 |
| | C | 20 | 0 | 0 | | | | | 20 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 26 | 6 | 20 | | | | | 52 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 399 | 624 | | | | | 1023 |
| | B | 342 | 0 | 194 | | | | | 537 |
| | C | 680 | 195 | 0 | | | | | 876 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 1023 | 594 | 818 | | | | | 2435 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 325 | 496 | | | | | 821 |
| | B | 282 | 0 | 145 | | | | | 427 |
| | C | 535 | 142 | 0 | | | | | 677 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 817 | 467 | 641 | | | | | 1925 |

MODELLED

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 54 | 73 | | | | | 127 |
| | B | 43 | 0 | 25 | | | | | 68 |
| | C | 87 | 28 | 0 | | | | | 115 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 130 | 82 | 98 | | | | | 310 |

MODELLED

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 14 | 35 | | | | | 49 |
| | B | 12 | 0 | 24 | | | | | 36 |
| | C | 36 | 25 | 0 | | | | | 61 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 48 | 39 | 59 | | | | | 146 |

MODELLED

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 6 | 20 | | | | | 26 |
| | B | 6 | 0 | 0 | | | | | 6 |
| | C | 22 | 0 | 0 | | | | | 22 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 27.91 | 5.98 | 19.94 | | | | | 53.83 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 537 | 626 | | | | | 1163 |
| | B | 459 | 0 | 128 | | | | | 587 |
| | C | 867 | 144 | 0 | | | | | 1011 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 1325 | 682 | 754 | | | | | 2761 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 499 | 542 | | | | | 1041 |
| | B | 413 | 0 | 114 | | | | | 527 |
| | C | 768 | 105 | 0 | | | | | 873 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 1181 | 604 | 656 | | | | | 2442 |

MODELLED

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 28 | 54 | | | | | 82 |
| | B | 37 | 0 | 10 | | | | | 47 |
| | C | 68 | 19 | 0 | | | | | 87 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 105 | 48 | 64 | | | | | 217 |

MODELLED

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 4 | 9 | | | | | 13 |
| | B | 2 | 0 | 4 | | | | | 6 |
| | C | 12 | 20 | 0 | | | | | 31 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 14 | 24 | 13 | | | | | 51 |

MODELLED

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 6 | 20 | | | | | 26 |
| | B | 6 | 0 | 0 | | | | | 6 |
| | C | 20 | 0 | 0 | | | | | 20 |
| | D | | | | | | | | |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 25.51 | 5.98 | 19.92 | | | | | 51.41 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 26859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1290 | 3166 | 770 | | | | 5226 |
| B | 575 | 34 | 1086 | 4252 | | | | 5947 |
| C | 2584 | 696 | 0 | 1998 | | | | 5278 |
| D | 1332 | 4863 | 2274 | 0 | | | | 8469 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4491 | 6883 | 6526 | 7020 | | | | 24920 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 929 | 2126 | 428 | | | | 3483 |
| B | 532 | 0 | 857 | 2142 | | | | 3531 |
| C | 1762 | 501 | 0 | 1230 | | | | 3493 |
| D | 715 | 2390 | 1343 | 0 | | | | 4448 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3009 | 3820 | 4326 | 3800 | | | | 14955 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 188 | 642 | 133 | | | | 963 |
| B | 43 | 2 | 73 | 717 | | | | 835 |
| C | 391 | 102 | 0 | 540 | | | | 1033 |
| D | 348 | 887 | 514 | 0 | | | | 1749 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 782 | 1179 | 1229 | 1390 | | | | 4580 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 173 | 398 | 209 | | | | 780 |
| B | 0 | 32 | 156 | 1393 | | | | 1581 |
| C | 431 | 93 | 0 | 228 | | | | 752 |
| D | 269 | 1586 | 417 | 0 | | | | 2272 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 700 | 1884 | 971 | 1830 | | | | 5385 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1056 | 1746 | 922 | | | | 3724 |
| B | 509 | 65 | 506 | 4869 | | | | 5949 |
| C | 2285 | 166 | 0 | 1106 | | | | 3557 |
| D | 1241 | 5176 | 2108 | 0 | | | | 8525 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4035 | 6463 | 4360 | 6897 | | | | 21755 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 725 | 1081 | 386 | | | | 2192 |
| B | 496 | 0 | 375 | 2397 | | | | 3268 |
| C | 1497 | 98 | 0 | 533 | | | | 2128 |
| D | 501 | 2461 | 1138 | 0 | | | | 4100 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2494 | 3284 | 2594 | 3316 | | | | 11688 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 135 | 376 | 208 | | | | 719 |
| B | 13 | 1 | 78 | 959 | | | | 1051 |
| C | 395 | 26 | 0 | 307 | | | | 728 |
| D | 287 | 966 | 434 | 0 | | | | 1687 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 695 | 1128 | 888 | 1474 | | | | 4185 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 196 | 289 | 328 | | | | 813 |
| B | 0 | 64 | 53 | 1513 | | | | 1630 |
| C | 393 | 42 | 0 | 266 | | | | 701 |
| D | 453 | 1749 | 536 | 0 | | | | 2738 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 846 | 2051 | 878 | 2107 | | | | 5882 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1208 | 2350 | 901 | | | | 4459 |
| B | 267 | 70 | 709 | 4997 | | | | 6043 |
| C | 3555 | 419 | 0 | 1054 | | | | 5028 |
| D | 1469 | 4833 | 2319 | 0 | | | | 8621 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5291 | 6530 | 5378 | 6952 | | | | 24151 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1109 | 1949 | 583 | | | | 3641 |
| B | 256 | 1 | 673 | 3312 | | | | 4242 |
| C | 2880 | 345 | 0 | 747 | | | | 3972 |
| D | 1063 | 3281 | 1669 | 0 | | | | 6013 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4199 | 4736 | 4291 | 4642 | | | | 17868 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 80 | 314 | 162 | | | | 556 |
| B | 11 | 2 | 24 | 688 | | | | 725 |
| C | 440 | 64 | 0 | 259 | | | | 763 |
| D | 235 | 664 | 382 | 0 | | | | 1281 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 686 | 810 | 720 | 1109 | | | | 3325 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 87 | 156 | | | | 262 |
| B | 0 | 67 | 12 | 997 | | | | 1076 |
| C | 235 | 10 | 0 | 48 | | | | 293 |
| D | 171 | 888 | 268 | 0 | | | | 1327 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 406 | 984 | 367 | 1201 | | | | 2958 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | *JTC 20 - A627 SB* |
| B | 2727 | 2724 | 2723 | 2725 | *JTC 20 - M62 WB* |
| C | 2768 | 4932 | 4929 | 2767 | *JTC 20 - A627 NB* |
| D | 2719 | 2721 | 2722 | 2720 | *JTC 20 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 244 | 971 | 752 | | | | 1967 |
| B | 214 | 0 | 1025 | 4483 | | | | 5722 |
| C | 880 | 767 | 0 | 781 | | | | 2428 |
| D | 977 | 5068 | 1032 | 0 | | | | 7077 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2071 | 6079 | 3028 | 6016 | | | | 17194 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 178 | 753 | 463 | | | | 1394 |
| B | 179 | 0 | 727 | 2338 | | | | 3244 |
| C | 714 | 397 | 0 | 539 | | | | 1650 |
| D | 606 | 2620 | 720 | 0 | | | | 3946 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1499 | 3195 | 2200 | 3340 | | | | 10234 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 93 | 107 | | | | 226 |
| B | 27 | 0 | 142 | 710 | | | | 879 |
| C | 96 | 101 | 0 | 133 | | | | 330 |
| D | 134 | 869 | 180 | 0 | | | | 1183 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 257 | 996 | 415 | 950 | | | | 2618 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 125 | 182 | | | | 347 |
| B | 8 | 0 | 156 | 1435 | | | | 1599 |
| C | 70 | 269 | 0 | 109 | | | | 448 |
| D | 237 | 1579 | 132 | 0 | | | | 1948 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 315 | 1888 | 413 | 1726 | | | | 4342 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 134 | 809 | 605 | | | | 1548 |
| B | 243 | 0 | 937 | 4442 | | | | 5622 |
| C | 365 | 685 | 0 | 771 | | | | 1821 |
| D | 762 | 5129 | 735 | 0 | | | | 6626 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1370 | 5948 | 2481 | 5818 | | | | 15617 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 586 | 334 | | | | 998 |
| B | 92 | 0 | 447 | 2327 | | | | 2866 |
| C | 191 | 321 | 0 | 543 | | | | 1055 |
| D | 551 | 2412 | 532 | 0 | | | | 3495 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 834 | 2811 | 1565 | 3204 | | | | 8414 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 106 | 125 | | | | 248 |
| B | 20 | 0 | 167 | 717 | | | | 904 |
| C | 103 | 104 | 0 | 169 | | | | 376 |
| D | 135 | 861 | 137 | 0 | | | | 1133 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 258 | 982 | 410 | 1011 | | | | 2661 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 117 | 146 | | | | 302 |
| B | 131 | 0 | 323 | 1398 | | | | 1852 |
| C | 71 | 260 | 0 | 59 | | | | 390 |
| D | 76 | 1856 | 66 | 0 | | | | 1998 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 278 | 2155 | 506 | 1603 | | | | 4542 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 215 | 909 | 1006 | | | | 2130 |
| B | 158 | 0 | 1068 | 4216 | | | | 5442 |
| C | 913 | 963 | 0 | 1002 | | | | 2878 |
| D | 653 | 4910 | 942 | 0 | | | | 6505 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1724 | 6088 | 2919 | 6224 | | | | 16955 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 164 | 686 | 698 | | | | 1548 |
| B | 106 | 0 | 853 | 2777 | | | | 3736 |
| C | 812 | 729 | 0 | 806 | | | | 2347 |
| D | 551 | 3399 | 834 | 0 | | | | 4784 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1469 | 4292 | 2373 | 4281 | | | | 12415 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 110 | 126 | | | | 260 |
| B | 12 | 0 | 83 | 516 | | | | 611 |
| C | 87 | 119 | 0 | 127 | | | | 333 |
| D | 83 | 650 | 80 | 0 | | | | 813 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 182 | 793 | 273 | 769 | | | | 2017 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 113 | 182 | | | | 322 |
| B | 40 | 0 | 132 | 923 | | | | 1095 |
| C | 14 | 115 | 0 | 69 | | | | 198 |
| D | 19 | 861 | 28 | 0 | | | | 908 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 73 | 1003 | 273 | 1174 | | | | 2523 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **M60 J19**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | *JTC 21 - M60 SB* |
| B | 14141 | 5666 | 5093 | 14141 | *JTC 21 - A576 WB* |
| C | 5668 | 5665 | 5667 | 5669 | *JTC 21 - M60 NB* |
| D | 3414 | 5096 | 5095 | 3414 | *JTC 21 - A576 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 511 | 0 | 941 | | | | 1452 |
| | B | 448 | 0 | 295 | 422 | | | | 1165 |
| | C | 0 | 258 | 23 | 529 | | | | 810 |
| | D | 655 | 216 | 593 | 0 | | | | 1464 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 1103 | 985 | 911 | 1892 | | | | 4891 |

*By Vehicle Type:*

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 385 | 0 | 783 | | | | 1168 |
| | B | 308 | 0 | 174 | 370 | | | | 852 |
| | C | 0 | 159 | 20 | 442 | | | | 621 |
| | D | 512 | 197 | 512 | 0 | | | | 1221 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 820 | 741 | 706 | 1595 | | | | 3862 |

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 74 | 0 | 72 | | | | 146 |
| | B | 72 | 0 | 81 | 49 | | | | 202 |
| | C | 0 | 38 | 3 | 65 | | | | 106 |
| | D | 58 | 17 | 63 | 0 | | | | 138 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 130 | 129 | 147 | 186 | | | | 592 |

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 52 | 0 | 86 | | | | 138 |
| | B | 68 | 0 | 40 | 3 | | | | 111 |
| | C | 0 | 61 | 0 | 22 | | | | 83 |
| | D | 85 | 2 | 18 | 0 | | | | 105 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 153 | 115 | 58 | 111 | | | | 437 |

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | | | | | | | | 0 |
| | B | | | | | | | | 0 |
| | C | | | | | | | | 0 |
| | D | | | | | | | | 0 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 326 | 0 | 655 | | | | 981 |
| | B | 202 | 0 | 246 | 328 | | | | 776 |
| | C | 0 | 316 | 4 | 498 | | | | 818 |
| | D | 375 | 438 | 581 | 0 | | | | 1394 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 577 | 1080 | 831 | 1481 | | | | 3969 |

*By Vehicle Type:*

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 221 | 0 | 516 | | | | 737 |
| | B | 136 | 0 | 142 | 290 | | | | 568 |
| | C | 0 | 178 | 4 | 396 | | | | 578 |
| | D | 279 | 389 | 456 | 0 | | | | 1124 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 415 | 788 | 602 | 1202 | | | | 3007 |

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 71 | 0 | 86 | | | | 157 |
| | B | 36 | 0 | 42 | 33 | | | | 111 |
| | C | 0 | 69 | 0 | 68 | | | | 137 |
| | D | 53 | 40 | 88 | 0 | | | | 181 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 89 | 180 | 130 | 187 | | | | 586 |

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 34 | 0 | 53 | | | | 87 |
| | B | 30 | 0 | 62 | 5 | | | | 97 |
| | C | 0 | 69 | 0 | 34 | | | | 103 |
| | D | 43 | 9 | 37 | 0 | | | | 89 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 73 | 112 | 99 | 92 | | | | 376 |

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | | | | | | | | 0 |
| | B | | | | | | | | 0 |
| | C | | | | | | | | 0 |
| | D | | | | | | | | 0 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED

| All Vehicle | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 323 | 0 | 960 | | | | 1283 |
| | B | 186 | 0 | 179 | 565 | | | | 930 |
| | C | 7 | 435 | 11 | 539 | | | | 992 |
| | D | 911 | 795 | 765 | 0 | | | | 2471 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 1104 | 1553 | 955 | 2064 | | | | 5676 |

*By Vehicle Type:*

| Car | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 263 | 0 | 897 | | | | 1160 |
| | B | 153 | 0 | 146 | 516 | | | | 815 |
| | C | 6 | 359 | 11 | 491 | | | | 867 |
| | D | 810 | 732 | 697 | 0 | | | | 2239 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 969 | 1354 | 854 | 1904 | | | | 5081 |

| LGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 39 | 0 | 46 | | | | 85 |
| | B | 22 | 0 | 27 | 46 | | | | 95 |
| | C | 1 | 55 | 0 | 48 | | | | 104 |
| | D | 89 | 61 | 62 | 0 | | | | 212 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 112 | 155 | 89 | 140 | | | | 496 |

| HGV | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | 0 | 21 | 0 | 17 | | | | 38 |
| | B | 11 | 0 | 6 | 3 | | | | 20 |
| | C | 0 | 21 | 0 | 0 | | | | 21 |
| | D | 12 | 2 | 6 | 0 | | | | 20 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 23 | 44 | 12 | 20 | | | | 99 |

| Fixed | | To Arm A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| From Arm | A | | | | | | | | 0 |
| | B | | | | | | | | 0 |
| | C | | | | | | | | 0 |
| | D | | | | | | | | 0 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 0 | 0 | 0 | 0 | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A576 Middleton Road / A6045 Heywood Old Road**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED

| All Vehicle | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 20 | 2 | 502 | | | | 524 |
| | B | 56 | 0 | 3 | 667 | | | | 726 |
| | C | 3 | 4 | 0 | 15 | | | | 22 |
| | D | 316 | 677 | 8 | 0 | | | | 1001 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 376 | 701 | 13 | 1184 | | | | 2274 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 9 | 1 | 349 | | | | 359 |
| | B | 37 | 0 | 1 | 492 | | | | 531 |
| | C | 2 | 2 | 0 | 11 | | | | 16 |
| | D | 233 | 501 | 6 | 0 | | | | 741 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 272 | 512 | 9 | 852 | | | | 1646 |

MODELLED

| LGV | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 8 | 0 | 103 | | | | 112 |
| | B | 5 | 0 | 0 | 96 | | | | 101 |
| | C | 1 | 1 | 0 | 3 | | | | 4 |
| | D | 38 | 90 | 1 | 0 | | | | 129 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 43 | 99 | 2 | 202 | | | | 346 |

MODELLED

| HGV | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 3 | 0 | 50 | | | | 54 |
| | B | 14 | 0 | 2 | 60 | | | | 76 |
| | C | 1 | 1 | 0 | 1 | | | | 2 |
| | D | 45 | 70 | 1 | 0 | | | | 116 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 60 | 73 | 3 | 111 | | | | 248 |

MODELLED

| Fixed | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 0 | 0 | 0 | | | | 0 |
| | B | 0 | 0 | 0 | 18 | | | | 18 |
| | C | 0 | 0 | 0 | 0 | | | | 0 |
| | D | 0 | 16 | 0 | 0 | | | | 16 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 0 | 16 | 0 | 18 | | | | 34 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED

| All Vehicle | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 86 | 7 | 263 | | | | 356 |
| | B | 95 | 0 | 5 | 524 | | | | 624 |
| | C | 5 | 5 | 0 | 8 | | | | 18 |
| | D | 431 | 658 | 8 | 0 | | | | 1098 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 531 | 749 | 20 | 795 | | | | 2095 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 73 | 5 | 188 | | | | 266 |
| | B | 58 | 0 | 3 | 374 | | | | 436 |
| | C | 3 | 3 | 0 | 6 | | | | 12 |
| | D | 310 | 471 | 6 | 0 | | | | 787 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 371 | 547 | 14 | 569 | | | | 1501 |

MODELLED

| LGV | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 8 | 1 | 37 | | | | 47 |
| | B | 10 | 0 | 1 | 73 | | | | 84 |
| | C | 1 | 1 | 0 | 1 | | | | 3 |
| | D | 69 | 110 | 1 | 0 | | | | 180 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 80 | 120 | 4 | 111 | | | | 315 |

MODELLED

| HGV | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 5 | 1 | 37 | | | | 43 |
| | B | 26 | 0 | 1 | 59 | | | | 86 |
| | C | 1 | 1 | 0 | 1 | | | | 2 |
| | D | 52 | 59 | 1 | 0 | | | | 112 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 79 | 65 | 2 | 97 | | | | 243 |

MODELLED

| Fixed | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 0 | 0 | 0 | | | | 0 |
| | B | 0 | 0 | 0 | 18 | | | | 18 |
| | C | 0 | 0 | 0 | 0 | | | | 0 |
| | D | 0 | 18 | 0 | 0 | | | | 18 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 0 | 17.88 | 0 | 17.96 | | | | 35.84 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED

| All Vehicle | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 81 | 2 | 353 | | | | 436 |
| | B | 132 | 0 | 4 | 589 | | | | 725 |
| | C | 4 | 5 | 0 | 5 | | | | 14 |
| | D | 698 | 862 | 10 | 0 | | | | 1570 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 834 | 948 | 16 | 947 | | | | 2745 |

*By Vehicle Type:*

MODELLED

| Car | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 75 | 2 | 311 | | | | 388 |
| | B | 122 | 0 | 4 | 501 | | | | 627 |
| | C | 3 | 4 | 0 | 3 | | | | 10 |
| | D | 608 | 738 | 8 | 0 | | | | 1354 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 734 | 817 | 14 | 815 | | | | 2380 |

MODELLED

| LGV | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 4 | 0 | 36 | | | | 40 |
| | B | 8 | 0 | 0 | 60 | | | | 68 |
| | C | 0 | 1 | 0 | 1 | | | | 2 |
| | D | 70 | 84 | 1 | 0 | | | | 155 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 79 | 89 | 1 | 96 | | | | 265 |

MODELLED

| HGV | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 1 | 0 | 7 | | | | 8 |
| | B | 1 | 0 | 0 | 13 | | | | 14 |
| | C | 0 | 1 | 0 | 1 | | | | 2 |
| | D | 20 | 23 | 1 | 0 | | | | 44 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | TOTAL | 21 | 25 | 1 | 20 | | | | 67 |

MODELLED

| Fixed | | To Arm | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | TOTAL |
| From Arm | A | 0 | 0 | 0 | 0 | | | | 0 |
| | B | 0 | 0 | 0 | 16 | | | | 16 |
| | C | 0 | 0 | 0 | 0 | | | | 0 |
| | D | 0 | 17 | 0 | 0 | | | | 17 |
| | E | | | | | | | | |
| | F | | | | | | | | |
| | G | | | | | | | | |
| | | 0 | 17.32 | 0 | 15.71 | | | | 33.03 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 86 | 844 | | | | | 930 |
| B | 0 | 0 | 1006 | | | | | 1006 |
| C | 1788 | 668 | 0 | | | | | 2456 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1788 | 754 | 1850 | | | | | 4392 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 64 | 634 | | | | | 697 |
| B | 0 | 0 | 776 | | | | | 776 |
| C | 1420 | 511 | 0 | | | | | 1932 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1420 | 575 | 1409 | | | | | 3405 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 85 | | | | | 99 |
| B | 0 | 0 | 171 | | | | | 171 |
| C | 146 | 107 | 0 | | | | | 253 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 146 | 121 | 256 | | | | | 523 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 96 | | | | | 104 |
| B | 0 | 0 | 59 | | | | | 59 |
| C | 191 | 50 | 0 | | | | | 241 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 191 | 58 | 155 | | | | | 404 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 29 | | | | | 29 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 31 | 0 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 0 | 29 | | | | | 61 |

### Model_2_Heywood_DM_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 850 | | | | | 852 |
| B | 0 | 0 | 938 | | | | | 938 |
| C | 1353 | 585 | 0 | | | | | 1938 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1353 | 587 | 1788 | | | | | 3728 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 611 | | | | | 613 |
| B | 0 | 0 | 662 | | | | | 662 |
| C | 1008 | 389 | 0 | | | | | 1397 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1008 | 391 | 1273 | | | | | 2672 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 99 | | | | | 99 |
| B | 0 | 0 | 175 | | | | | 175 |
| C | 171 | 130 | 0 | | | | | 300 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 171 | 130 | 275 | | | | | 575 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 110 | | | | | 110 |
| B | 0 | 0 | 101 | | | | | 101 |
| C | 142 | 67 | 0 | | | | | 209 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 142 | 67 | 211 | | | | | 420 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.68 | 0 | 29.7 | | | | | 61.38 |

### Model_3_Heywood_DM_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 1039 | | | | | 1043 |
| B | 0 | 0 | 1040 | | | | | 1040 |
| C | 1589 | 714 | 0 | | | | | 2303 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1589 | 718 | 2079 | | | | | 4386 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 942 | | | | | 945 |
| B | 0 | 0 | 947 | | | | | 947 |
| C | 1421 | 610 | 0 | | | | | 2032 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1421 | 612 | 1889 | | | | | 3923 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 51 | | | | | 52 |
| B | 0 | 0 | 77 | | | | | 77 |
| C | 109 | 77 | 0 | | | | | 186 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 109 | 78 | 128 | | | | | 315 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 18 | | | | | 19 |
| B | 0 | 0 | 16 | | | | | 16 |
| C | 30 | 27 | 0 | | | | | 56 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 28 | 34 | | | | | 92 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.84 | 0 | 27.27 | | | | | 56.11 |

## Run 6 - 2032 Do Something 1a - Origin-Destination Matrices

- Policy Off (Non Vision-Led)
- including 395,000sqm of the JPA1.1 Allocation Site
- excluding the M62 Access solution
- including Common Highway Mitigation Package and J18 DCO works
- Whittle Lane capacity constrained and South Heywood Link Closed

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60057 | 60011 | 4924 | 2718 | C1-M62 WC1-M62 West |
| E | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizabe |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 242 | 261 | 484 | 15 | | | 1002 |
| B | 245 | 0 | 156 | 0 | 593 | | | 994 |
| C | 251 | 197 | 0 | 216 | 97 | | | 761 |
| D | 184 | 0 | 114 | 2 | 287 | | | 587 |
| E | 1 | 437 | 110 | 134 | 0 | | | 682 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 681 | 876 | 641 | 836 | 992 | | | 4026 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 162 | 191 | 355 | 14 | | | 722 |
| B | 166 | 0 | 56 | 0 | 309 | | | 531 |
| C | 203 | 163 | 0 | 192 | 66 | | | 624 |
| D | 89 | 0 | 81 | 0 | 197 | | | 367 |
| E | 0 | 215 | 57 | 123 | 0 | | | 395 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 458 | 540 | 385 | 670 | 586 | | | 2639 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 61 | 39 | 1 | | | 161 |
| B | 37 | 0 | 63 | 0 | 84 | | | 184 |
| C | 43 | 11 | 0 | 20 | 16 | | | 90 |
| D | 54 | 0 | 11 | 1 | 25 | | | 91 |
| E | 1 | 36 | 9 | 6 | 0 | | | 52 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 135 | 107 | 144 | 66 | 126 | | | 578 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 9 | 90 | 0 | | | 119 |
| B | 42 | 0 | 37 | 0 | 200 | | | 279 |
| C | 5 | 23 | 0 | 4 | 15 | | | 47 |
| D | 41 | 0 | 22 | 1 | 65 | | | 129 |
| E | 0 | 186 | 44 | 5 | 0 | | | 235 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 88 | 229 | 112 | 100 | 280 | | | 809 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 238 | 259 | 253 | 2 | | | 752 |
| B | 165 | 0 | 116 | 0 | 285 | | | 566 |
| C | 192 | 250 | 0 | 255 | 88 | | | 785 |
| D | 198 | 0 | 96 | 8 | 265 | | | 567 |
| E | 8 | 371 | 93 | 85 | 0 | | | 557 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 563 | 859 | 564 | 601 | 640 | | | 3227 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 157 | 215 | 140 | 1 | | | 513 |
| B | 93 | 0 | 83 | 0 | 118 | | | 294 |
| C | 144 | 175 | 0 | 162 | 58 | | | 539 |
| D | 84 | 0 | 72 | 0 | 51 | | | 207 |
| E | 4 | 107 | 41 | 21 | 0 | | | 173 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 325 | 439 | 411 | 323 | 228 | | | 1726 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 32 | 57 | 1 | | | 141 |
| B | 38 | 0 | 23 | 0 | 28 | | | 89 |
| C | 32 | 33 | 0 | 56 | 9 | | | 130 |
| D | 48 | 0 | 18 | 1 | 40 | | | 107 |
| E | 4 | 58 | 13 | 10 | 0 | | | 85 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 142 | 86 | 124 | 78 | | | 552 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 12 | 56 | 0 | | | 98 |
| B | 34 | 0 | 10 | 0 | 139 | | | 183 |
| C | 16 | 42 | 0 | 37 | 21 | | | 116 |
| D | 66 | 0 | 6 | 7 | 174 | | | 253 |
| E | 0 | 206 | 39 | 54 | 0 | | | 299 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 116 | 278 | 67 | 154 | 334 | | | 949 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 228 | 273 | 288 | 8 | | | 797 |
| B | 215 | 0 | 182 | 0 | 400 | | | 797 |
| C | 254 | 231 | 0 | 244 | 71 | | | 800 |
| D | 254 | 0 | 209 | 0 | 259 | | | 722 |
| E | 13 | 518 | 78 | 39 | 0 | | | 648 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 736 | 977 | 742 | 571 | 738 | | | 3764 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 176 | 242 | 256 | 6 | | | 680 |
| B | 161 | 0 | 146 | 0 | 237 | | | 544 |
| C | 233 | 216 | 0 | 189 | 60 | | | 698 |
| D | 201 | 0 | 171 | 0 | 183 | | | 555 |
| E | 11 | 410 | 59 | 30 | 0 | | | 510 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 606 | 802 | 618 | 475 | 486 | | | 2987 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 26 | 16 | 2 | | | 82 |
| B | 32 | 0 | 29 | 0 | 37 | | | 98 |
| C | 19 | 15 | 0 | 33 | 5 | | | 72 |
| D | 28 | 0 | 31 | 0 | 20 | | | 79 |
| E | 2 | 26 | 4 | 2 | 0 | | | 34 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 79 | 90 | 51 | 64 | | | 365 |

MODELLED — HGV

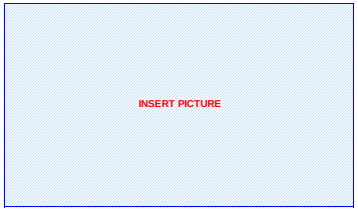
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 5 | 16 | 0 | | | 35 |
| B | 22 | 0 | 7 | 0 | 126 | | | 155 |
| C | 2 | 0 | 0 | 22 | 6 | | | 30 |
| D | 25 | 0 | 7 | 0 | 56 | | | 88 |
| E | 0 | 82 | 15 | 7 | 0 | | | 104 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 96 | 34 | 45 | 188 | | | 412 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | 045 Manchester Road |
| B | 60003 | 60010 | 60010 | 60003 | d Queen Elizabeth Wa |
| C | 2814 | 60010 | 60010 | 2814 | 045 Manchester Road |
| D | 60008 | 60010 | 60010 | 60008 | d Queen Elizabeth Wa |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 140 | 271 | 87 | | | | 498 |
| B | 132 | 0 | 108 | 752 | | | | 992 |
| C | 306 | 60 | 0 | 109 | | | | 475 |
| D | 88 | 483 | 37 | 0 | | | | 608 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 526 | 683 | 415 | 949 | | | | 2573 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 126 | 191 | 68 | | | | 386 |
| B | 101 | 0 | 80 | 406 | | | | 587 |
| C | 261 | 46 | 0 | 69 | | | | 376 |
| D | 65 | 223 | 30 | 0 | | | | 318 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 427 | 396 | 301 | 543 | | | | 1667 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 57 | 18 | | | | 81 |
| B | 15 | 0 | 25 | 86 | | | | 125 |
| C | 26 | 7 | 0 | 8 | | | | 41 |
| D | 15 | 38 | 5 | 0 | | | | 59 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 51 | 87 | 112 | | | | 306 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 21 | 1 | | | | 30 |
| B | 16 | 0 | 3 | 260 | | | | 279 |
| C | 19 | 6 | 0 | 32 | | | | 58 |
| D | 8 | 222 | 2 | 0 | | | | 231 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 43 | 236 | 26 | 294 | | | | 598 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 221 | 69 | | | | 329 |
| B | 93 | 0 | 54 | 493 | | | | 640 |
| C | 338 | 71 | 0 | 103 | | | | 512 |
| D | 67 | 448 | 52 | 0 | | | | 567 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 498 | 558 | 327 | 665 | | | | 2049 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 162 | 51 | | | | 236 |
| B | 70 | 0 | 42 | 116 | | | | 227 |
| C | 254 | 33 | 0 | 66 | | | | 352 |
| D | 42 | 118 | 34 | 0 | | | | 195 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 366 | 174 | 238 | 232 | | | | 1011 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 28 | 17 | | | | 51 |
| B | 11 | 0 | 10 | 58 | | | | 79 |
| C | 44 | 13 | 0 | 19 | | | | 76 |
| D | 22 | 66 | 7 | 0 | | | | 95 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 77 | 85 | 46 | 94 | | | | 301 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 29 | 1 | | | | 40 |
| B | 12 | 0 | 2 | 319 | | | | 334 |
| C | 39 | 25 | 0 | 18 | | | | 82 |
| D | 3 | 264 | 11 | 0 | | | | 278 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 299 | 42 | 339 | | | | 734 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 300 | 56 | | | | 392 |
| B | 129 | 0 | 129 | 478 | | | | 737 |
| C | 489 | 162 | 0 | 88 | | | | 739 |
| D | 102 | 450 | 65 | 0 | | | | 617 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 721 | 648 | 495 | 622 | | | | 2485 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 265 | 39 | | | | 329 |
| B | 110 | 0 | 114 | 261 | | | | 486 |
| C | 423 | 143 | 0 | 66 | | | | 631 |
| D | 84 | 342 | 50 | 0 | | | | 477 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 617 | 510 | 430 | 366 | | | | 1923 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 27 | 15 | | | | 45 |
| B | 13 | 0 | 12 | 39 | | | | 63 |
| C | 47 | 18 | 0 | 14 | | | | 79 |
| D | 10 | 13 | 11 | 0 | | | | 34 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 70 | 34 | 50 | 68 | | | | 222 |

HGV

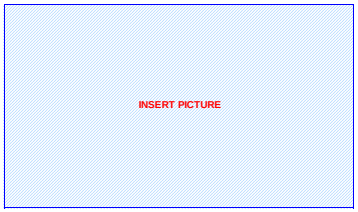
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 6 | 2 | | | | 16 |
| B | 6 | 0 | 4 | 178 | | | | 188 |
| C | 17 | 2 | 0 | 8 | | | | 27 |
| D | 8 | 94 | 4 | 0 | | | | 106 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 104 | 13 | 188 | | | | 337 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.95 | 0 | 1.98 | 0 | | | | 3.93 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Hill Top Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | *Harehills Rd EB* |
| B | 60036 | 60031 | 60031 | 60036 | *Hill Top Road* |
| C | 60230 | 7454 | 7454 | 60230 | *Harehills Rd SB* |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 119 | 476 | 47 | | | | 642 |
| B | 90 | 0 | 10 | 2 | | | | 102 |
| C | 767 | 63 | 0 | 157 | | | | 987 |
| D | 62 | 0 | 38 | 0 | | | | 100 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 919 | 182 | 524 | 206 | | | | 1831 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 234 | 37 | | | | 330 |
| B | 11 | 0 | 1 | 0 | | | | 12 |
| C | 480 | 38 | 0 | 63 | | | | 581 |
| D | 14 | 0 | 3 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 505 | 97 | 238 | 100 | | | | 940 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 52 | 6 | | | | 66 |
| B | 7 | 0 | 0 | 1 | | | | 8 |
| C | 89 | 5 | 0 | 19 | | | | 113 |
| D | 14 | 0 | 2 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 110 | 13 | 54 | 26 | | | | 203 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 190 | 4 | | | | 246 |
| B | 72 | 0 | 9 | 1 | | | | 82 |
| C | 198 | 20 | 0 | 75 | | | | 293 |
| D | 34 | 0 | 33 | 0 | | | | 67 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 304 | 72 | 232 | 80 | | | | 688 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 431 | 27 | | | | 531 |
| B | 85 | 0 | 44 | 1 | | | | 130 |
| C | 498 | 46 | 0 | 112 | | | | 656 |
| D | 62 | 2 | 88 | 0 | | | | 152 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 645 | 121 | 563 | 140 | | | | 1469 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 165 | 21 | | | | 209 |
| B | 30 | 0 | 12 | 0 | | | | 42 |
| C | 197 | 8 | 0 | 19 | | | | 224 |
| D | 34 | 1 | 14 | 0 | | | | 49 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 261 | 32 | 191 | 40 | | | | 524 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 74 | 5 | | | | 89 |
| B | 13 | 0 | 8 | 1 | | | | 22 |
| C | 64 | 7 | 0 | 22 | | | | 93 |
| D | 17 | 1 | 12 | 0 | | | | 30 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 18 | 94 | 28 | | | | 234 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 192 | 1 | | | | 233 |
| B | 42 | 0 | 24 | 0 | | | | 66 |
| C | 237 | 31 | 0 | 71 | | | | 339 |
| D | 11 | 0 | 62 | 0 | | | | 73 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 290 | 71 | 278 | 72 | | | | 711 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 49 | 544 | 12 | | | | 605 |
| B | 94 | 0 | 49 | 0 | | | | 143 |
| C | 481 | 24 | 0 | 52 | | | | 557 |
| D | 141 | 0 | 57 | 0 | | | | 198 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 716 | 73 | 650 | 64 | | | | 1503 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 444 | 11 | | | | 474 |
| B | 68 | 0 | 29 | 0 | | | | 97 |
| C | 284 | 11 | 0 | 10 | | | | 305 |
| D | 109 | 0 | 34 | 0 | | | | 143 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 461 | 30 | 507 | 21 | | | | 1019 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 27 | 1 | | | | 30 |
| B | 3 | 0 | 8 | 0 | | | | 11 |
| C | 59 | 1 | 0 | 4 | | | | 64 |
| D | 9 | 0 | 3 | 0 | | | | 12 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 71 | 3 | 38 | 5 | | | | 117 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 73 | 0 | | | | 101 |
| B | 23 | 0 | 12 | 0 | | | | 35 |
| C | 138 | 12 | 0 | 38 | | | | 188 |
| D | 23 | 0 | 20 | 0 | | | | 43 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 184 | 40 | 105 | 38 | | | | 367 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Pilsworth Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 181 | 421 | | | | | 601 |
| B | 411 | 0 | 222 | | | | | 633 |
| C | 675 | 243 | 0 | | | | | 918 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1086 | 423 | 643 | | | | | 2152 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 132 | 168 | | | | | 300 |
| B | 309 | 0 | 163 | | | | | 472 |
| C | 337 | 168 | 0 | | | | | 504 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 646 | 299 | 331 | | | | | 1276 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 32 | | | | | 51 |
| B | 43 | 0 | 35 | | | | | 78 |
| C | 66 | 44 | 0 | | | | | 110 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 109 | 62 | 66 | | | | | 238 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 221 | | | | | 251 |
| B | 59 | 0 | 25 | | | | | 84 |
| C | 273 | 31 | 0 | | | | | 304 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 332 | 61 | 245 | | | | | 638 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 285 | 405 | | | | | 691 |
| B | 245 | 0 | 123 | | | | | 368 |
| C | 463 | 182 | 0 | | | | | 645 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 708 | 467 | 529 | | | | | 1704 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 172 | 128 | | | | | 300 |
| B | 155 | 0 | 79 | | | | | 234 |
| C | 149 | 112 | 0 | | | | | 261 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 304 | 284 | 207 | | | | | 795 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 67 | | | | | 105 |
| B | 34 | 0 | 22 | | | | | 56 |
| C | 60 | 34 | 0 | | | | | 94 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 72 | 88 | | | | | 254 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 211 | | | | | 286 |
| B | 56 | 0 | 23 | | | | | 78 |
| C | 254 | 36 | 0 | | | | | 290 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 310 | 111 | 233 | | | | | 655 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 338 | 464 | | | | | 803 |
| B | 235 | 0 | 141 | | | | | 376 |
| C | 462 | 254 | 0 | | | | | 716 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 697 | 592 | 606 | | | | | 1895 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 295 | 359 | | | | | 655 |
| B | 189 | 0 | 115 | | | | | 304 |
| C | 247 | 214 | 0 | | | | | 460 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 436 | 509 | 474 | | | | | 1419 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 13 | | | | | 33 |
| B | 11 | 0 | 17 | | | | | 28 |
| C | 41 | 30 | 0 | | | | | 71 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 52 | 50 | 30 | | | | | 132 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 92 | | | | | 115 |
| B | 34 | 0 | 10 | | | | | 44 |
| C | 175 | 10 | 0 | | | | | 185 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 209 | 34 | 102 | | | | | 345 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / A58 Bury St

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 520 | 137 | | | | | 657 |
| B | 614 | 0 | 401 | | | | | 1014 |
| C | 174 | 306 | 0 | | | | | 481 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 788 | 827 | 537 | | | | | 2152 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 352 | 113 | | | | | 466 |
| B | 406 | 0 | 289 | | | | | 695 |
| C | 127 | 240 | 0 | | | | | 366 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 532 | 592 | 403 | | | | | 1527 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 97 | 16 | | | | | 113 |
| B | 113 | 0 | 38 | | | | | 151 |
| C | 36 | 23 | 0 | | | | | 59 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 149 | 120 | 54 | | | | | 322 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 7 | | | | | 68 |
| B | 85 | 0 | 54 | | | | | 139 |
| C | 11 | 26 | 0 | | | | | 38 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 97 | 87 | 61 | | | | | 245 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 28 | 20 | | | | | 57 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 499 | 89 | | | | | 588 |
| B | 483 | 0 | 292 | | | | | 775 |
| C | 130 | 326 | 0 | | | | | 456 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 613 | 824 | 381 | | | | | 1819 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 353 | 68 | | | | | 421 |
| B | 333 | 0 | 186 | | | | | 519 |
| C | 102 | 197 | 0 | | | | | 298 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 435 | 550 | 254 | | | | | 1238 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 16 | | | | | 91 |
| B | 83 | 0 | 36 | | | | | 119 |
| C | 18 | 34 | 0 | | | | | 52 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 101 | 109 | 51 | | | | | 262 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 6 | | | | | 67 |
| B | 57 | 0 | 50 | | | | | 107 |
| C | 10 | 77 | 0 | | | | | 88 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 137 | 56 | | | | | 261 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.91 | 27.89 | 19.81 | | | | | 57.61 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 525 | 105 | | | | | 630 |
| B | 550 | 0 | 321 | | | | | 871 |
| C | 189 | 309 | 0 | | | | | 498 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 739 | 834 | 426 | | | | | 1999 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 468 | 92 | | | | | 560 |
| B | 478 | 0 | 260 | | | | | 738 |
| C | 171 | 265 | 0 | | | | | 436 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 649 | 733 | 353 | | | | | 1734 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 10 | | | | | 52 |
| B | 50 | 0 | 26 | | | | | 76 |
| C | 15 | 22 | 0 | | | | | 37 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 65 | 64 | 36 | | | | | 165 |

MODELLED — HGV

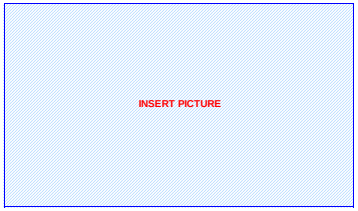
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 3 | | | | | 11 |
| B | 14 | 0 | 15 | | | | | 29 |
| C | 3 | 4 | 0 | | | | | 7 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 17 | 12 | 17 | | | | | 47 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 20 | | | | | 28 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.86 | 25.8 | 19.64 | | | | | 53.3 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / Heywood Distribution Centre




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | Pilsworth Rd NB |
| B | 20430 | 7459 | 7459 | 20430 | ywood Distribution Cer |
| C | 2813 | 7459 | 7459 | 2813 | Pilsworth Rd SB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 256 | 457 | | | | | 712 |
| B | 148 | 0 | 145 | | | | | 292 |
| C | 849 | 237 | 0 | | | | | 1086 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 997 | 493 | 601 | | | | | 2091 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 134 | 267 | | | | | 401 |
| B | 31 | 0 | 32 | | | | | 64 |
| C | 502 | 144 | 0 | | | | | 646 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 533 | 278 | 300 | | | | | 1111 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 34 | | | | | 55 |
| B | 24 | 0 | 16 | | | | | 40 |
| C | 90 | 19 | 0 | | | | | 109 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 113 | 40 | 51 | | | | | 204 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 101 | 155 | | | | | 256 |
| B | 93 | 0 | 96 | | | | | 189 |
| C | 258 | 74 | 0 | | | | | 332 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 350 | 175 | 251 | | | | | 776 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 111 | 515 | | | | | 626 |
| B | 198 | 0 | 175 | | | | | 374 |
| C | 464 | 244 | 0 | | | | | 708 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 662 | 355 | 691 | | | | | 1708 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 223 | | | | | 273 |
| B | 80 | 0 | 77 | | | | | 156 |
| C | 231 | 74 | 0 | | | | | 304 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 310 | 124 | 300 | | | | | 734 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 81 | | | | | 99 |
| B | 30 | 0 | 24 | | | | | 54 |
| C | 62 | 31 | 0 | | | | | 94 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 92 | 50 | 105 | | | | | 247 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 211 | | | | | 254 |
| B | 88 | 0 | 75 | | | | | 163 |
| C | 171 | 139 | 0 | | | | | 310 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 260 | 181 | 286 | | | | | 727 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 68 | 672 | | | | | 741 |
| B | 200 | 0 | 130 | | | | | 330 |
| C | 573 | 124 | 0 | | | | | 697 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 773 | 192 | 803 | | | | | 1767 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 558 | | | | | 583 |
| B | 157 | 0 | 97 | | | | | 254 |
| C | 385 | 51 | 0 | | | | | 436 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 542 | 76 | 655 | | | | | 1273 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 27 | | | | | 31 |
| B | 13 | 0 | 5 | | | | | 18 |
| C | 40 | 12 | 0 | | | | | 52 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 15 | 33 | | | | | 101 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 87 | | | | | 127 |
| B | 30 | 0 | 28 | | | | | 58 |
| C | 148 | 61 | 0 | | | | | 209 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 178 | 100 | 115 | | | | | 394 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Pilsworth Road / JPA1.1 & SHDA employment**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | *Pilsworth Rd SB* |
| B | 60027 | 60229 | 60229 | 60027 | *SHDA* |
| C | 60024 | 60229 | 60229 | 60024 | *Pilsworth Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 977 | | | | | 997 |
| B | 12 | 0 | 16 | | | | | 28 |
| C | 700 | 30 | 0 | | | | | 731 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 712 | 51 | 993 | | | | | 1756 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 525 | | | | | 533 |
| B | 2 | 0 | 4 | | | | | 6 |
| C | 399 | 13 | 0 | | | | | 412 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 401 | 22 | 528 | | | | | 952 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 111 | | | | | 113 |
| B | 1 | 0 | 2 | | | | | 4 |
| C | 54 | 3 | 0 | | | | | 57 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 55 | 6 | 113 | | | | | 174 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 341 | | | | | 350 |
| B | 8 | 0 | 10 | | | | | 18 |
| C | 248 | 14 | 0 | | | | | 262 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 256 | 23 | 351 | | | | | 630 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 650 | | | | | 662 |
| B | 18 | 0 | 24 | | | | | 42 |
| C | 608 | 26 | 0 | | | | | 634 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 626 | 39 | 674 | | | | | 1339 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 306 | | | | | 310 |
| B | 5 | 0 | 8 | | | | | 13 |
| C | 268 | 7 | 0 | | | | | 275 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 273 | 12 | 313 | | | | | 598 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 90 | | | | | 92 |
| B | 3 | 0 | 4 | | | | | 7 |
| C | 96 | 5 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 99 | 7 | 94 | | | | | 200 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 254 | | | | | 260 |
| B | 9 | 0 | 12 | | | | | 22 |
| C | 245 | 15 | 0 | | | | | 259 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 254 | 20 | 266 | | | | | 540 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 766 | | | | | 773 |
| B | 15 | 0 | 27 | | | | | 42 |
| C | 726 | 12 | 0 | | | | | 737 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 741 | 19 | 793 | | | | | 1552 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 540 | | | | | 542 |
| B | 8 | 0 | 18 | | | | | 26 |
| C | 575 | 4 | 0 | | | | | 578 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 583 | 6 | 557 | | | | | 1146 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 52 | | | | | 53 |
| B | 1 | 0 | 2 | | | | | 3 |
| C | 30 | 1 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 1 | 54 | | | | | 86 |

HGV

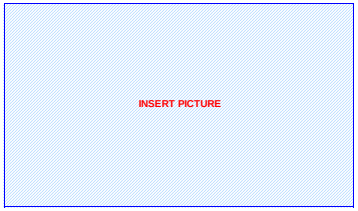
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 174 | | | | | 178 |
| B | 6 | 0 | 7 | | | | | 13 |
| C | 121 | 7 | 0 | | | | | 129 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 127 | 12 | 181 | | | | | 320 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** 3 Arrows (Pilsworth Road / Moss Hall Road - South)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 60241 | 2037 | 2037 | 60241 | *Link Road* |
| D | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 332 | 649 | 12 | | | | 993 |
| B | 133 | 0 | 312 | 1 | | | | 446 |
| C | 594 | 443 | 0 | 17 | | | | 1055 |
| D | 3 | 1 | 13 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 731 | 775 | 974 | 30 | | | | 2510 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 164 | 358 | 6 | | | | 528 |
| B | 19 | 0 | 135 | 1 | | | | 156 |
| C | 392 | 266 | 0 | 5 | | | | 663 |
| D | 1 | 1 | 1 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 412 | 431 | 494 | 12 | | | | 1349 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 87 | 1 | | | | 113 |
| B | 11 | 0 | 63 | 0 | | | | 74 |
| C | 46 | 57 | 0 | 4 | | | | 107 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 82 | 150 | 6 | | | | 294 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 142 | 205 | 4 | | | | 351 |
| B | 103 | 0 | 113 | 0 | | | | 216 |
| C | 157 | 120 | 0 | 8 | | | | 284 |
| D | 2 | 0 | 13 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 262 | 262 | 330 | 12 | | | | 866 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 196 | 474 | 4 | | | | 674 |
| B | 222 | 0 | 381 | 1 | | | | 604 |
| C | 401 | 334 | 0 | 22 | | | | 757 |
| D | 12 | 1 | 17 | 0 | | | | 29 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 634 | 530 | 872 | 27 | | | | 2063 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 251 | 2 | | | | 313 |
| B | 75 | 0 | 182 | 0 | | | | 258 |
| C | 197 | 142 | 0 | 2 | | | | 340 |
| D | 3 | 1 | 4 | 0 | | | | 8 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 275 | 203 | 437 | 5 | | | | 919 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 63 | 2 | | | | 94 |
| B | 31 | 0 | 59 | 0 | | | | 90 |
| C | 68 | 48 | 0 | 2 | | | | 117 |
| D | 2 | 0 | 1 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 100 | 78 | 123 | 4 | | | | 305 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 106 | 160 | 0 | | | | 266 |
| B | 116 | 0 | 140 | 0 | | | | 256 |
| C | 137 | 144 | 0 | 18 | | | | 299 |
| D | 7 | 0 | 11 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 259 | 250 | 312 | 18 | | | | 839 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 110 | 669 | 13 | | | | 793 |
| B | 179 | 0 | 553 | 3 | | | | 734 |
| C | 553 | 204 | 0 | 16 | | | | 773 |
| D | 6 | 1 | 11 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 737 | 314 | 1234 | 32 | | | | 2318 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 517 | 8 | | | | 558 |
| B | 116 | 0 | 435 | 3 | | | | 554 |
| C | 458 | 118 | 0 | 10 | | | | 587 |
| D | 4 | 1 | 8 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 578 | 151 | 961 | 21 | | | | 1711 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 47 | 0 | | | | 54 |
| B | 5 | 0 | 37 | 0 | | | | 42 |
| C | 24 | 15 | 0 | 1 | | | | 40 |
| D | 1 | 0 | 2 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 21 | 86 | 1 | | | | 139 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 104 | 5 | | | | 181 |
| B | 57 | 0 | 80 | 0 | | | | 138 |
| C | 71 | 71 | 0 | 5 | | | | 147 |
| D | 0 | 0 | 2 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 129 | 142 | 187 | 10 | | | | 468 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Fowler Welch (Pilsworth Road / Moss Hall Road - North)

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60241 | 60246 | 60246 | 60241 | *Moss Hall Rd NB* |
| B | 60000 | 60213 | 60213 | 60000 | *Pilsworth Road* |
| C | 60228 | 2038 | 2038 | 60228 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 853 | 119 | | | | | 972 |
| B | 893 | 0 | 67 | | | | | 960 |
| C | 162 | 123 | 0 | | | | | 285 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1055 | 976 | 186 | | | | | 2217 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 453 | 40 | | | | | 493 |
| B | 564 | 0 | 43 | | | | | 607 |
| C | 99 | 97 | 0 | | | | | 196 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 663 | 550 | 83 | | | | | 1296 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 95 | 54 | | | | | 149 |
| B | 74 | 0 | 10 | | | | | 84 |
| C | 33 | 18 | 0 | | | | | 51 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 107 | 113 | 64 | | | | | 284 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 305 | 25 | | | | | 330 |
| B | 255 | 0 | 14 | | | | | 269 |
| C | 30 | 8 | 0 | | | | | 38 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 285 | 313 | 39 | | | | | 637 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 655 | 216 | | | | | 871 |
| B | 706 | 0 | 77 | | | | | 783 |
| C | 50 | 101 | 0 | | | | | 151 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 756 | 756 | 293 | | | | | 1805 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 296 | 141 | | | | | 437 |
| B | 329 | 0 | 60 | | | | | 389 |
| C | 11 | 82 | 0 | | | | | 93 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 340 | 378 | 201 | | | | | 919 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 89 | 34 | | | | | 123 |
| B | 98 | 0 | 11 | | | | | 109 |
| C | 19 | 14 | 0 | | | | | 33 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 117 | 103 | 45 | | | | | 265 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 270 | 41 | | | | | 311 |
| B | 279 | 0 | 6 | | | | | 285 |
| C | 20 | 5 | 0 | | | | | 25 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 299 | 275 | 47 | | | | | 621 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 895 | 339 | | | | | 1234 |
| B | 739 | 0 | 191 | | | | | 930 |
| C | 35 | 129 | 0 | | | | | 164 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 774 | 1024 | 530 | | | | | 2328 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 670 | 291 | | | | | 961 |
| B | 572 | 0 | 168 | | | | | 740 |
| C | 15 | 116 | 0 | | | | | 131 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 587 | 786 | 459 | | | | | 1832 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 24 | | | | | 87 |
| B | 31 | 0 | 21 | | | | | 52 |
| C | 9 | 12 | 0 | | | | | 21 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 75 | 45 | | | | | 160 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 162 | 24 | | | | | 186 |
| B | 136 | 0 | 2 | | | | | 138 |
| C | 11 | 1 | 0 | | | | | 12 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 147 | 163 | 26 | | | | | 336 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | *TC 11 - Pilsworth Rd E* |
| B | 3001 | 60238 | 60239 | 3000 | *JTC 11 - M66 SB Off* |
| C | 60213 | 60000 | 60000 | 60213 | *TC 11 - Pilsworth Rd W* |
| D | 60236 | 4918 | 60240 | 2998 | *JTC 11 - M66 NB Off* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 363 | 381 | 206 | | | | 950 |
| B | 420 | 0 | 199 | 0 | | | | 619 |
| C | 340 | 216 | 0 | 423 | | | | 979 |
| D | 687 | 0 | 379 | 0 | | | | 1066 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1447 | 579 | 959 | 629 | | | | 3614 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 259 | 303 | 134 | | | | 696 |
| B | 337 | 0 | 175 | 0 | | | | 512 |
| C | 260 | 146 | 0 | 145 | | | | 551 |
| D | 574 | 0 | 128 | 0 | | | | 702 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1171 | 405 | 606 | 279 | | | | 2461 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 56 | 35 | 55 | | | | 146 |
| B | 50 | 0 | 14 | 0 | | | | 64 |
| C | 51 | 21 | 0 | 42 | | | | 114 |
| D | 63 | 0 | 35 | 0 | | | | 98 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 164 | 77 | 84 | 97 | | | | 422 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 43 | 17 | | | | 108 |
| B | 33 | 0 | 10 | 0 | | | | 43 |
| C | 29 | 49 | 0 | 236 | | | | 314 |
| D | 50 | 0 | 216 | 0 | | | | 266 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 112 | 97 | 269 | 253 | | | | 731 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 426 | 324 | 200 | | | | 950 |
| B | 343 | 0 | 131 | 0 | | | | 474 |
| C | 231 | 70 | 0 | 455 | | | | 756 |
| D | 355 | 0 | 331 | 0 | | | | 686 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 929 | 496 | 786 | 655 | | | | 2866 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 326 | 198 | 174 | | | | 698 |
| B | 257 | 0 | 101 | 0 | | | | 358 |
| C | 179 | 36 | 0 | 162 | | | | 377 |
| D | 250 | 0 | 92 | 0 | | | | 342 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 686 | 362 | 391 | 336 | | | | 1775 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 49 | 21 | | | | 124 |
| B | 44 | 0 | 13 | 0 | | | | 57 |
| C | 28 | 12 | 0 | 63 | | | | 103 |
| D | 49 | 0 | 47 | 0 | | | | 96 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 66 | 109 | 84 | | | | 380 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 46 | 77 | 5 | | | | 128 |
| B | 42 | 0 | 17 | 0 | | | | 59 |
| C | 24 | 22 | 0 | 230 | | | | 276 |
| D | 56 | 0 | 192 | 0 | | | | 248 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 68 | 286 | 235 | | | | 711 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 471 | 505 | 194 | | | | 1170 |
| B | 286 | 0 | 143 | 0 | | | | 429 |
| C | 336 | 140 | 0 | 547 | | | | 1023 |
| D | 489 | 0 | 281 | 0 | | | | 770 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1111 | 611 | 929 | 741 | | | | 3392 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 430 | 463 | 172 | | | | 1065 |
| B | 250 | 0 | 127 | 0 | | | | 377 |
| C | 294 | 117 | 0 | 374 | | | | 785 |
| D | 373 | 0 | 150 | 0 | | | | 523 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 917 | 547 | 740 | 546 | | | | 2750 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 25 | 19 | | | | 70 |
| B | 27 | 0 | 6 | 0 | | | | 33 |
| C | 22 | 21 | 0 | 32 | | | | 75 |
| D | 53 | 0 | 21 | 0 | | | | 74 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 102 | 47 | 52 | 51 | | | | 252 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 17 | 3 | | | | 35 |
| B | 9 | 0 | 10 | 0 | | | | 19 |
| C | 20 | 2 | 0 | 141 | | | | 163 |
| D | 63 | 0 | 110 | 0 | | | | 173 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 92 | 17 | 137 | 144 | | | | 390 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N\12 - M66 NB Of |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water\ 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 140 | 101 | 283 | 1348 | 50 | | 1922 |
| B | 255 | 0 | 24 | 221 | 0 | 35 | | 535 |
| C | 59 | 3 | 0 | 8 | 20 | 0 | | 90 |
| D | 613 | 248 | 23 | 0 | 232 | 65 | | 1181 |
| E | 1453 | 0 | 67 | 164 | 0 | 99 | | 1783 |
| F | 35 | 5 | 1 | 32 | 32 | 0 | | 105 |
| G | | | | | | | | |
| TOTAL | 2415 | 396 | 216 | 708 | 1632 | 249 | | 5616 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 110 | 42 | 216 | 1056 | 46 | | 1470 |
| B | 236 | 0 | 22 | 154 | 0 | 30 | | 442 |
| C | 10 | 1 | 0 | 3 | 7 | 0 | | 21 |
| D | 538 | 166 | 20 | 0 | 138 | 37 | | 899 |
| E | 1082 | 0 | 51 | 96 | 0 | 91 | | 1320 |
| F | 29 | 3 | 1 | 19 | 24 | 0 | | 76 |
| G | | | | | | | | |
| TOTAL | 1895 | 280 | 136 | 488 | 1225 | 204 | | 4228 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 29 | 43 | 179 | 3 | | 278 |
| B | 15 | 0 | 2 | 42 | 0 | 1 | | 60 |
| C | 34 | 2 | 0 | 4 | 8 | 0 | | 48 |
| D | 46 | 40 | 3 | 0 | 46 | 10 | | 145 |
| E | 163 | 0 | 7 | 42 | 0 | 5 | | 217 |
| F | 2 | 1 | 0 | 4 | 4 | 0 | | 11 |
| G | | | | | | | | |
| TOTAL | 260 | 67 | 41 | 135 | 237 | 19 | | 759 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 30 | 24 | 113 | 1 | | 174 |
| B | 4 | 0 | 0 | 25 | 0 | 4 | | 33 |
| C | 15 | 0 | 0 | 1 | 5 | 0 | | 21 |
| D | 29 | 42 | 0 | 0 | 48 | 18 | | 137 |
| E | 208 | 0 | 9 | 26 | 0 | 3 | | 246 |
| F | 4 | 1 | 0 | 9 | 4 | 0 | | 18 |
| G | | | | | | | | |
| TOTAL | 260 | 49 | 39 | 85 | 170 | 26 | | 629 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 168 | 109 | 265 | 1250 | 30 | | 1822 |
| B | 213 | 0 | 21 | 167 | 0 | 11 | | 412 |
| C | 78 | 13 | 0 | 13 | 34 | 1 | | 139 |
| D | 430 | 149 | 29 | 0 | 127 | 57 | | 792 |
| E | 1218 | 0 | 48 | 177 | 0 | 44 | | 1487 |
| F | 38 | 13 | 2 | 37 | 54 | 0 | | 144 |
| G | | | | | | | | |
| TOTAL | 1977 | 343 | 209 | 659 | 1465 | 143 | | 4796 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 127 | 55 | 196 | 913 | 26 | | 1317 |
| B | 175 | 0 | 16 | 102 | 0 | 8 | | 301 |
| C | 28 | 8 | 0 | 9 | 22 | 1 | | 68 |
| D | 333 | 93 | 22 | 0 | 51 | 27 | | 526 |
| E | 862 | 0 | 36 | 97 | 0 | 33 | | 1028 |
| F | 34 | 10 | 2 | 22 | 42 | 0 | | 110 |
| G | | | | | | | | |
| TOTAL | 1432 | 238 | 131 | 426 | 1028 | 95 | | 3350 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 35 | 39 | 183 | 2 | | 282 |
| B | 21 | 0 | 3 | 23 | 0 | 1 | | 48 |
| C | 40 | 3 | 0 | 3 | 7 | 0 | | 53 |
| D | 56 | 32 | 5 | 0 | 27 | 12 | | 132 |
| E | 192 | 0 | 8 | 43 | 0 | 4 | | 247 |
| F | 3 | 2 | 0 | 8 | 4 | 0 | | 17 |
| G | | | | | | | | |
| TOTAL | 312 | 60 | 51 | 116 | 221 | 19 | | 779 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 19 | 30 | 154 | 2 | | 223 |
| B | 17 | 0 | 2 | 42 | 0 | 2 | | 63 |
| C | 10 | 2 | 0 | 1 | 5 | 0 | | 18 |
| D | 41 | 24 | 2 | 0 | 49 | 18 | | 134 |
| E | 164 | 0 | 4 | 37 | 0 | 7 | | 212 |
| F | 1 | 1 | 0 | 7 | 8 | 0 | | 17 |
| G | | | | | | | | |
| TOTAL | 233 | 45 | 27 | 117 | 216 | 29 | | 667 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 1 | 236 | 33 | 388 | 1346 | 39 | | 2043 |
| B | 267 | 0 | 6 | 147 | 0 | 13 | | 433 |
| C | 50 | 13 | 0 | 18 | 47 | 1 | | 129 |
| D | 585 | 170 | 13 | 0 | 162 | 65 | | 995 |
| E | 1409 | 0 | 18 | 251 | 0 | 51 | | 1729 |
| F | 41 | 17 | 0 | 49 | 109 | 0 | | 216 |
| G | | | | | | | | |
| TOTAL | 2353 | 436 | 70 | 853 | 1664 | 169 | | 5545 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 1 | 223 | 18 | 352 | 1241 | 37 | | 1872 |
| B | 249 | 0 | 5 | 129 | 0 | 12 | | 395 |
| C | 23 | 12 | 0 | 16 | 44 | 1 | | 96 |
| D | 527 | 148 | 11 | 0 | 120 | 55 | | 861 |
| E | 1245 | 0 | 15 | 209 | 0 | 40 | | 1509 |
| F | 38 | 16 | 0 | 44 | 102 | 0 | | 200 |
| G | | | | | | | | |
| TOTAL | 2083 | 399 | 49 | 750 | 1507 | 145 | | 4933 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 13 | 24 | 79 | 2 | | 130 |
| B | 15 | 0 | 1 | 16 | 0 | 1 | | 33 |
| C | 23 | 1 | 0 | 2 | 3 | 0 | | 29 |
| D | 34 | 19 | 2 | 0 | 22 | 9 | | 86 |
| E | 123 | 0 | 3 | 27 | 0 | 5 | | 158 |
| F | 2 | 1 | 0 | 4 | 2 | 0 | | 9 |
| G | | | | | | | | |
| TOTAL | 197 | 33 | 19 | 73 | 106 | 17 | | 445 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 12 | 26 | 0 | | 41 |
| B | 3 | 0 | 0 | 2 | 0 | 0 | | 5 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 24 | 3 | 0 | 0 | 20 | 1 | | 48 |
| E | 41 | 0 | 0 | 15 | 0 | 6 | | 62 |
| F | 1 | 0 | 0 | 1 | 5 | 0 | | 7 |
| G | | | | | | | | |
| TOTAL | 73 | 4 | 2 | 30 | 51 | 7 | | 167 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | Heywood Old Road NE |
| B | 60074 | 2478 | 2478 | 60074 | Whittle Lane |
| C | 4730 | 2478 | 2478 | 4730 | Heywood Old Road SE |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 320 | | | | | 394 |
| B | 6 | 0 | 84 | | | | | 90 |
| C | 551 | 168 | 0 | | | | | 719 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 557 | 242 | 404 | | | | | 1203 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 64 | 239 | | | | | 304 |
| B | 4 | 0 | 62 | | | | | 66 |
| C | 428 | 127 | 0 | | | | | 555 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 432 | 191 | 301 | | | | | 924 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 29 | | | | | 39 |
| B | 1 | 0 | 22 | | | | | 24 |
| C | 99 | 41 | 0 | | | | | 140 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 101 | 51 | 52 | | | | | 203 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 49 | | | | | 49 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 0 | 49 | | | | | 73 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 491 | | | | | 522 |
| B | 21 | 0 | 98 | | | | | 119 |
| C | 305 | 93 | 0 | | | | | 398 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 326 | 124 | 589 | | | | | 1039 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 340 | | | | | 354 |
| B | 15 | 0 | 72 | | | | | 87 |
| C | 234 | 67 | 0 | | | | | 301 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 249 | 81 | 412 | | | | | 741 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 69 | | | | | 86 |
| B | 6 | 0 | 26 | | | | | 32 |
| C | 35 | 26 | 0 | | | | | 61 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 41 | 43 | 94 | | | | | 178 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 80 | | | | | 80 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 37 | 0 | 0 | | | | | 37 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 37 | 0 | 80 | | | | | 117 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.99 | | | | | 1.99 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 784 | | | | | 799 |
| B | 29 | 0 | 147 | | | | | 176 |
| C | 382 | 139 | 0 | | | | | 522 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 411 | 154 | 931 | | | | | 1497 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 669 | | | | | 681 |
| B | 28 | 0 | 134 | | | | | 162 |
| C | 339 | 130 | 0 | | | | | 469 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 368 | 142 | 803 | | | | | 1313 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 89 | | | | | 92 |
| B | 1 | 0 | 13 | | | | | 14 |
| C | 35 | 10 | 0 | | | | | 45 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 36 | 12 | 103 | | | | | 151 |

MODELLED — HGV

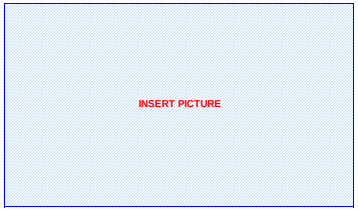
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 24 | | | | | 24 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 8 | 0 | 0 | | | | | 8 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 8 | 0 | 24 | | | | | 32 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.94 | | | | | 1.94 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Heywood Old Road / Langley Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | Heywood Old Road SB |
| B | 15238 | 4730 | 4730 | 15238 | Langley Lane |
| C | 2478 | 4730 | 4730 | 2478 | Heywood Old Road NB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 85 | 361 | | | | | 446 |
| B | 96 | 0 | 358 | | | | | 453 |
| C | 266 | 138 | 0 | | | | | 404 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 362 | 223 | 719 | | | | | 1304 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 72 | 264 | | | | | 335 |
| B | 87 | 0 | 291 | | | | | 378 |
| C | 191 | 111 | 0 | | | | | 301 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 278 | 182 | 555 | | | | | 1015 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 81 | | | | | 87 |
| B | 5 | 0 | 59 | | | | | 64 |
| C | 26 | 25 | 0 | | | | | 52 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 31 | 140 | | | | | 202 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 17 | | | | | 22 |
| B | 4 | 0 | 7 | | | | | 11 |
| C | 49 | 0 | 0 | | | | | 49 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 6 | 24 | | | | | 82 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 220 | | | | | 272 |
| B | 54 | 0 | 178 | | | | | 232 |
| C | 410 | 178 | 0 | | | | | 589 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 464 | 231 | 398 | | | | | 1093 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 152 | | | | | 197 |
| B | 42 | 0 | 148 | | | | | 190 |
| C | 274 | 138 | 0 | | | | | 412 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 316 | 182 | 301 | | | | | 799 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 31 | | | | | 36 |
| B | 6 | 0 | 30 | | | | | 35 |
| C | 62 | 32 | 0 | | | | | 94 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 37 | 61 | | | | | 165 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 36 | | | | | 37 |
| B | 4 | 0 | 0 | | | | | 5 |
| C | 74 | 7 | 0 | | | | | 80 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 78 | 7 | 37 | | | | | 122 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.98 | 0 | | | | | 5.98 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 72 | 279 | | | | | 351 |
| B | 65 | 0 | 242 | | | | | 308 |
| C | 633 | 298 | 0 | | | | | 931 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 699 | 370 | 522 | | | | | 1590 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 245 | | | | | 307 |
| B | 59 | 0 | 224 | | | | | 283 |
| C | 542 | 261 | 0 | | | | | 803 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 601 | 323 | 469 | | | | | 1393 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 27 | | | | | 34 |
| B | 4 | 0 | 18 | | | | | 21 |
| C | 69 | 34 | 0 | | | | | 103 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 41 | 45 | | | | | 158 |

MODELLED — HGV

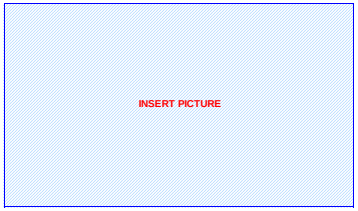
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 8 | | | | | 9 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 23 | 1 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 2 | 8 | | | | | 33 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 3.91 | 0 | | | | | 5.89 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Langley Lane / A6046 Hollin Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 139 | 703 | | | | | 842 |
| B | 123 | 0 | 68 | | | | | 192 |
| C | 682 | 8 | 0 | | | | | 690 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 806 | 147 | 771 | | | | | 1724 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 549 | | | | | 622 |
| B | 92 | 0 | 66 | | | | | 158 |
| C | 394 | 7 | 0 | | | | | 401 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 486 | 81 | 615 | | | | | 1181 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 90 | | | | | 148 |
| B | 27 | 0 | 1 | | | | | 28 |
| C | 147 | 1 | 0 | | | | | 148 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 174 | 59 | 91 | | | | | 324 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 44 | | | | | 52 |
| B | 1 | 0 | 1 | | | | | 2 |
| C | 112 | 0 | 0 | | | | | 112 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 112 | 7 | 46 | | | | | 165 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 20 | | | | | 20 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 0 | 20 | | | | | 53 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 108 | 795 | | | | | 903 |
| B | 104 | 0 | 19 | | | | | 123 |
| C | 580 | 15 | 0 | | | | | 595 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 684 | 123 | 814 | | | | | 1621 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 526 | | | | | 601 |
| B | 65 | 0 | 18 | | | | | 83 |
| C | 402 | 14 | 0 | | | | | 416 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 467 | 90 | 544 | | | | | 1101 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 133 | | | | | 163 |
| B | 31 | 0 | 1 | | | | | 31 |
| C | 88 | 0 | 0 | | | | | 88 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 118 | 30 | 134 | | | | | 282 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 116 | | | | | 117 |
| B | 5 | 0 | 0 | | | | | 5 |
| C | 67 | 0 | 0 | | | | | 67 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 1 | 116 | | | | | 189 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.8 | 2 | 19.97 | | | | | 49.77 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 177 | 833 | | | | | 1010 |
| B | 109 | 0 | 12 | | | | | 121 |
| C | 717 | 48 | 0 | | | | | 765 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 827 | 226 | 845 | | | | | 1897 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 158 | 701 | | | | | 859 |
| B | 78 | 0 | 12 | | | | | 90 |
| C | 570 | 47 | 0 | | | | | 617 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 648 | 205 | 713 | | | | | 1566 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 74 | | | | | 92 |
| B | 26 | 0 | 0 | | | | | 27 |
| C | 91 | 1 | 0 | | | | | 91 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 117 | 18 | 75 | | | | | 210 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 33 | 0 | 0 | | | | | 33 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 0 | 30 | | | | | 64 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 28 | | | | | 30 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.51 | 1.97 | 27.55 | | | | | 57.03 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Coronation Avenue

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 117 | 314 | | | | | 431 |
| B | 398 | 0 | 32 | | | | | 430 |
| C | 437 | 185 | 0 | | | | | 622 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 835 | 302 | 345 | | | | | 1483 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 225 | | | | | 225 |
| B | 266 | 0 | 20 | | | | | 286 |
| C | 381 | 142 | 0 | | | | | 523 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 647 | 142 | 245 | | | | | 1034 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 65 | | | | | 65 |
| B | 42 | 0 | 10 | | | | | 52 |
| C | 30 | 36 | 0 | | | | | 66 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 36 | 75 | | | | | 182 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 88 | 19 | | | | | 107 |
| B | 70 | 0 | 3 | | | | | 73 |
| C | 27 | 6 | 0 | | | | | 33 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 97 | 94 | 22 | | | | | 213 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 4 | | | | | 33 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 20 | 29 | 4 | | | | | 53 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 95 | 276 | | | | | 370 |
| B | 207 | 0 | 58 | | | | | 265 |
| C | 400 | 111 | 0 | | | | | 511 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 607 | 206 | 334 | | | | | 1146 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 190 | | | | | 190 |
| B | 75 | 0 | 10 | | | | | 85 |
| C | 275 | 72 | 0 | | | | | 347 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 350 | 72 | 200 | | | | | 621 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 47 | | | | | 47 |
| B | 10 | 0 | 40 | | | | | 50 |
| C | 83 | 27 | 0 | | | | | 110 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 93 | 27 | 86 | | | | | 207 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 33 | | | | | 104 |
| B | 102 | 0 | 9 | | | | | 111 |
| C | 39 | 12 | 0 | | | | | 51 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 142 | 83 | 42 | | | | | 266 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.89 | 23.84 | 5.96 | | | | | 51.69 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 359 | | | | | 410 |
| B | 400 | 0 | 16 | | | | | 416 |
| C | 528 | 103 | 0 | | | | | 631 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 928 | 153 | 375 | | | | | 1456 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 301 | | | | | 301 |
| B | 309 | 0 | 1 | | | | | 310 |
| C | 454 | 84 | 0 | | | | | 538 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 763 | 84 | 303 | | | | | 1150 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 35 | | | | | 35 |
| B | 33 | 0 | 13 | | | | | 47 |
| C | 46 | 17 | 0 | | | | | 62 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 79 | 17 | 48 | | | | | 144 |

MODELLED — HGV

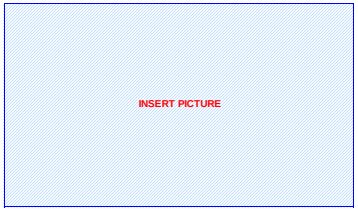
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 19 | | | | | 46 |
| B | 31 | 0 | 1 | | | | | 32 |
| C | 26 | 2 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 29 | 20 | | | | | 106 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 4 | | | | | 28 |
| B | 27 | 0 | 0 | | | | | 27 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.42 | 23.65 | 3.94 | | | | | 57.01 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / Hollins Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 364 | 484 | | | | | 848 |
| B | 216 | 0 | 48 | | | | | 265 |
| C | 700 | 64 | 0 | | | | | 765 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 917 | 429 | 532 | | | | | 1878 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 312 | 406 | | | | | 718 |
| B | 160 | 0 | 38 | | | | | 198 |
| C | 588 | 47 | 0 | | | | | 635 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 748 | 359 | 444 | | | | | 1551 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 54 | | | | | 99 |
| B | 37 | 0 | 4 | | | | | 42 |
| C | 68 | 10 | 0 | | | | | 78 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 106 | 54 | 59 | | | | | 219 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 23 | | | | | 27 |
| B | 15 | 0 | 0 | | | | | 15 |
| C | 44 | 2 | 0 | | | | | 46 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 59 | 6 | 24 | | | | | 88 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 172 | 506 | | | | | 678 |
| B | 174 | 0 | 44 | | | | | 218 |
| C | 531 | 57 | 0 | | | | | 588 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 705 | 229 | 550 | | | | | 1484 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 138 | 395 | | | | | 533 |
| B | 131 | 0 | 29 | | | | | 160 |
| C | 403 | 37 | 0 | | | | | 440 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 534 | 175 | 424 | | | | | 1134 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 64 | | | | | 90 |
| B | 27 | 0 | 9 | | | | | 36 |
| C | 76 | 13 | 0 | | | | | 89 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 103 | 38 | 73 | | | | | 215 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 46 | | | | | 53 |
| B | 12 | 0 | 1 | | | | | 13 |
| C | 52 | 1 | 0 | | | | | 52 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 64 | 8 | 46 | | | | | 118 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 4 | 7.97 | 6 | | | | | 17.97 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 301 | 558 | | | | | 859 |
| B | 151 | 0 | 38 | | | | | 190 |
| C | 627 | 55 | 0 | | | | | 682 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 778 | 355 | 597 | | | | | 1731 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 268 | 500 | | | | | 768 |
| B | 131 | 0 | 28 | | | | | 158 |
| C | 560 | 39 | 0 | | | | | 599 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 691 | 307 | 528 | | | | | 1525 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 45 | | | | | 72 |
| B | 12 | 0 | 5 | | | | | 16 |
| C | 47 | 10 | 0 | | | | | 57 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 58 | 37 | 49 | | | | | 145 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 13 | | | | | 15 |
| B | 7 | 0 | 0 | | | | | 7 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 27 | 2 | 14 | | | | | 43 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 9.86 | 5.94 | | | | | 17.78 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / A56 Manchester Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 603 | 619 | | | | | 1221 |
| B | 415 | 0 | 117 | | | | | 532 |
| C | 907 | 162 | 0 | | | | | 1069 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1322 | 765 | 736 | | | | | 2823 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 515 | 500 | | | | | 1015 |
| B | 351 | 0 | 93 | | | | | 444 |
| C | 799 | 120 | 0 | | | | | 918 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1150 | 635 | 593 | | | | | 2377 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 64 | | | | | 117 |
| B | 45 | 0 | 14 | | | | | 59 |
| C | 59 | 25 | 0 | | | | | 84 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 78 | 77 | | | | | 260 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 36 | | | | | 64 |
| B | 13 | 0 | 10 | | | | | 24 |
| C | 29 | 18 | 0 | | | | | 46 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 42 | 46 | 46 | | | | | 134 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 6 | 20 | | | | | 52 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 380 | 635 | | | | | 1014 |
| B | 348 | 0 | 201 | | | | | 550 |
| C | 695 | 208 | 0 | | | | | 903 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1043 | 588 | 836 | | | | | 2467 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 291 | 505 | | | | | 796 |
| B | 275 | 0 | 149 | | | | | 424 |
| C | 549 | 149 | 0 | | | | | 698 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 824 | 440 | 654 | | | | | 1918 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 57 | 75 | | | | | 132 |
| B | 46 | 0 | 27 | | | | | 73 |
| C | 88 | 32 | 0 | | | | | 120 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 135 | 89 | 102 | | | | | 325 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 35 | | | | | 61 |
| B | 21 | 0 | 25 | | | | | 46 |
| C | 36 | 27 | 0 | | | | | 62 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 52 | 60 | | | | | 169 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.9 | 5.98 | 19.94 | | | | | 53.82 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 516 | 692 | | | | | 1207 |
| B | 480 | 0 | 117 | | | | | 597 |
| C | 852 | 166 | 0 | | | | | 1018 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1333 | 682 | 808 | | | | | 2822 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 470 | 607 | | | | | 1077 |
| B | 426 | 0 | 102 | | | | | 528 |
| C | 754 | 129 | 0 | | | | | 883 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1180 | 599 | 709 | | | | | 2488 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 55 | | | | | 86 |
| B | 39 | 0 | 10 | | | | | 49 |
| C | 67 | 26 | 0 | | | | | 93 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 106 | 57 | 66 | | | | | 228 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 9 | | | | | 19 |
| B | 10 | 0 | 4 | | | | | 14 |
| C | 11 | 11 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 21 | 20 | 13 | | | | | 54 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 25.5 | 5.98 | 19.92 | | | | | 51.4 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 26859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1216 | 3260 | 829 | | | | 5305 |
| B | 582 | 34 | 1053 | 4232 | | | | 5901 |
| C | 2718 | 703 | 0 | 1971 | | | | 5392 |
| D | 1360 | 4880 | 2262 | 0 | | | | 8502 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4660 | 6833 | 6575 | 7032 | | | | 25100 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 870 | 2160 | 449 | | | | 3479 |
| B | 536 | 0 | 827 | 2149 | | | | 3512 |
| C | 1852 | 500 | 0 | 1208 | | | | 3560 |
| D | 713 | 2407 | 1331 | 0 | | | | 4451 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3101 | 3777 | 4318 | 3806 | | | | 15002 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 172 | 650 | 130 | | | | 952 |
| B | 43 | 2 | 70 | 709 | | | | 824 |
| C | 408 | 110 | 0 | 535 | | | | 1053 |
| D | 353 | 887 | 515 | 0 | | | | 1755 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 804 | 1171 | 1235 | 1374 | | | | 4584 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 174 | 450 | 250 | | | | 874 |
| B | 3 | 32 | 156 | 1374 | | | | 1565 |
| C | 458 | 93 | 0 | 228 | | | | 779 |
| D | 294 | 1586 | 416 | 0 | | | | 2296 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 755 | 1885 | 1022 | 1852 | | | | 5514 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 971 | 1818 | 978 | | | | 3767 |
| B | 505 | 65 | 504 | 4892 | | | | 5966 |
| C | 2364 | 175 | 0 | 1063 | | | | 3602 |
| D | 1279 | 5176 | 2076 | 0 | | | | 8531 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4148 | 6387 | 4398 | 6933 | | | | 21866 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 721 | 1112 | 398 | | | | 2231 |
| B | 492 | 0 | 373 | 2412 | | | | 3277 |
| C | 1549 | 100 | 0 | 512 | | | | 2161 |
| D | 493 | 2459 | 1109 | 0 | | | | 4061 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2534 | 3280 | 2594 | 3322 | | | | 11730 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 114 | 393 | 214 | | | | 721 |
| B | 13 | 1 | 78 | 968 | | | | 1060 |
| C | 402 | 33 | 0 | 292 | | | | 727 |
| D | 293 | 962 | 431 | 0 | | | | 1686 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 708 | 1110 | 902 | 1474 | | | | 4194 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 136 | 313 | 366 | | | | 815 |
| B | 0 | 64 | 53 | 1512 | | | | 1629 |
| C | 413 | 42 | 0 | 259 | | | | 714 |
| D | 493 | 1755 | 536 | 0 | | | | 2784 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 906 | 1997 | 902 | 2137 | | | | 5942 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1015 | 2438 | 1023 | | | | 4476 |
| B | 261 | 70 | 690 | 4970 | | | | 5991 |
| C | 3605 | 395 | 0 | 1005 | | | | 5005 |
| D | 1471 | 4885 | 2326 | 0 | | | | 8682 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5337 | 6365 | 5454 | 6998 | | | | 24154 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 916 | 2024 | 637 | | | | 3577 |
| B | 256 | 1 | 654 | 3306 | | | | 4217 |
| C | 2917 | 321 | 0 | 711 | | | | 3949 |
| D | 1018 | 3346 | 1673 | 0 | | | | 6037 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4191 | 4584 | 4351 | 4654 | | | | 17780 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 79 | 320 | 166 | | | | 565 |
| B | 5 | 2 | 24 | 692 | | | | 723 |
| C | 441 | 64 | 0 | 247 | | | | 752 |
| D | 233 | 663 | 384 | 0 | | | | 1280 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 679 | 808 | 728 | 1105 | | | | 3320 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 94 | 220 | | | | 334 |
| B | 0 | 67 | 12 | 972 | | | | 1051 |
| C | 247 | 10 | 0 | 47 | | | | 304 |
| D | 220 | 876 | 269 | 0 | | | | 1365 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 467 | 973 | 375 | 1239 | | | | 3054 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | JTC 20 - A627 SB |
| B | 2727 | 2724 | 2723 | 2725 | JTC 20 - M62 WB |
| C | 2768 | 4932 | 4929 | 2767 | JTC 20 - A627 NB |
| D | 2719 | 2721 | 2722 | 2720 | JTC 20 - M62 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 243 | 968 | 778 | | | | 1989 |
| B | 211 | 0 | 1030 | 4559 | | | | 5800 |
| C | 895 | 766 | 0 | 810 | | | | 2471 |
| D | 971 | 5110 | 1044 | 0 | | | | 7125 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2077 | 6119 | 3042 | 6147 | | | | 17385 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 177 | 750 | 470 | | | | 1397 |
| B | 178 | 0 | 733 | 2366 | | | | 3277 |
| C | 728 | 397 | 0 | 551 | | | | 1676 |
| D | 592 | 2622 | 721 | 0 | | | | 3935 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1498 | 3196 | 2204 | 3387 | | | | 10285 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 92 | 109 | | | | 227 |
| B | 26 | 0 | 142 | 714 | | | | 882 |
| C | 97 | 100 | 0 | 131 | | | | 328 |
| D | 136 | 869 | 181 | 0 | | | | 1186 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 259 | 995 | 415 | 954 | | | | 2623 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 126 | 199 | | | | 365 |
| B | 7 | 0 | 155 | 1479 | | | | 1641 |
| C | 70 | 269 | 0 | 128 | | | | 467 |
| D | 243 | 1619 | 142 | 0 | | | | 2004 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 320 | 1928 | 423 | 1806 | | | | 4477 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 130 | 803 | 651 | | | | 1584 |
| B | 241 | 0 | 943 | 4495 | | | | 5679 |
| C | 358 | 682 | 0 | 783 | | | | 1823 |
| D | 764 | 5184 | 744 | 0 | | | | 6692 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1363 | 5996 | 2490 | 5929 | | | | 15778 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 587 | 363 | | | | 1025 |
| B | 92 | 0 | 453 | 2340 | | | | 2885 |
| C | 185 | 320 | 0 | 544 | | | | 1049 |
| D | 549 | 2429 | 535 | 0 | | | | 3513 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 826 | 2824 | 1575 | 3247 | | | | 8472 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 100 | 129 | | | | 245 |
| B | 19 | 0 | 166 | 724 | | | | 909 |
| C | 103 | 103 | 0 | 172 | | | | 378 |
| D | 135 | 871 | 139 | 0 | | | | 1145 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 257 | 990 | 405 | 1025 | | | | 2677 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 116 | 159 | | | | 314 |
| B | 130 | 0 | 324 | 1431 | | | | 1885 |
| C | 70 | 259 | 0 | 67 | | | | 396 |
| D | 80 | 1884 | 70 | 0 | | | | 2034 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 280 | 2182 | 510 | 1657 | | | | 4629 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 218 | 904 | 1019 | | | | 2141 |
| B | 159 | 0 | 1070 | 4232 | | | | 5461 |
| C | 929 | 950 | 0 | 1023 | | | | 2902 |
| D | 640 | 4995 | 960 | 0 | | | | 6595 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1728 | 6163 | 2934 | 6274 | | | | 17099 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 167 | 682 | 700 | | | | 1549 |
| B | 107 | 0 | 854 | 2772 | | | | 3733 |
| C | 828 | 709 | 0 | 815 | | | | 2352 |
| D | 532 | 3464 | 844 | 0 | | | | 4840 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1467 | 4340 | 2380 | 4287 | | | | 12474 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 109 | 126 | | | | 259 |
| B | 12 | 0 | 83 | 517 | | | | 612 |
| C | 87 | 127 | 0 | 132 | | | | 346 |
| D | 83 | 644 | 85 | 0 | | | | 812 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 182 | 795 | 277 | 775 | | | | 2029 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 113 | 193 | | | | 333 |
| B | 40 | 0 | 133 | 943 | | | | 1116 |
| C | 14 | 114 | 0 | 76 | | | | 204 |
| D | 25 | 887 | 31 | 0 | | | | 943 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 79 | 1028 | 277 | 1212 | | | | 2596 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | *JTC 21 - M60 SB* |
| B | 14141 | 5666 | 5093 | 14141 | *JTC 21 - A576 WB* |
| C | 5668 | 5665 | 5667 | 5669 | *JTC 21 - M60 NB* |
| D | 3414 | 5096 | 5095 | 3414 | *JTC 21 - A576 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 525 | 0 | 936 | | | | 1461 |
| B | 480 | 0 | 272 | 432 | | | | 1184 |
| C | 0 | 279 | 23 | 508 | | | | 810 |
| D | 684 | 197 | 608 | 0 | | | | 1489 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1164 | 1001 | 903 | 1876 | | | | 4944 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 397 | 0 | 778 | | | | 1175 |
| B | 338 | 0 | 171 | 381 | | | | 890 |
| C | 0 | 186 | 20 | 425 | | | | 631 |
| D | 540 | 178 | 527 | 0 | | | | 1245 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 878 | 761 | 718 | 1584 | | | | 3941 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 0 | 72 | | | | 146 |
| B | 72 | 0 | 81 | 49 | | | | 202 |
| C | 0 | 32 | 3 | 63 | | | | 98 |
| D | 59 | 16 | 63 | 0 | | | | 138 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 131 | 122 | 147 | 184 | | | | 584 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 0 | 86 | | | | 140 |
| B | 70 | 0 | 20 | 2 | | | | 92 |
| C | 0 | 61 | 0 | 20 | | | | 81 |
| D | 85 | 3 | 18 | 0 | | | | 106 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 155 | 118 | 38 | 108 | | | | 419 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 337 | 0 | 663 | | | | 1000 |
| B | 237 | 0 | 241 | 326 | | | | 804 |
| C | 0 | 327 | 4 | 499 | | | | 830 |
| D | 380 | 455 | 593 | 0 | | | | 1428 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 617 | 1119 | 838 | 1488 | | | | 4062 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 226 | 0 | 522 | | | | 748 |
| B | 172 | 0 | 140 | 288 | | | | 600 |
| C | 0 | 182 | 4 | 397 | | | | 583 |
| D | 279 | 404 | 468 | 0 | | | | 1151 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 451 | 812 | 612 | 1207 | | | | 3082 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 0 | 87 | | | | 162 |
| B | 36 | 0 | 39 | 33 | | | | 108 |
| C | 0 | 77 | 0 | 68 | | | | 145 |
| D | 58 | 42 | 88 | 0 | | | | 188 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 194 | 127 | 188 | | | | 603 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 0 | 54 | | | | 90 |
| B | 29 | 0 | 62 | 5 | | | | 96 |
| C | 0 | 68 | 0 | 34 | | | | 102 |
| D | 43 | 9 | 37 | 0 | | | | 89 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 113 | 99 | 93 | | | | 377 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 332 | 0 | 962 | | | | 1294 |
| B | 194 | 0 | 154 | 568 | | | | 916 |
| C | 8 | 440 | 10 | 533 | | | | 991 |
| D | 906 | 800 | 762 | 0 | | | | 2468 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1108 | 1572 | 926 | 2063 | | | | 5669 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 268 | 0 | 897 | | | | 1165 |
| B | 163 | 0 | 120 | 518 | | | | 801 |
| C | 6 | 359 | 10 | 485 | | | | 860 |
| D | 803 | 737 | 694 | 0 | | | | 2234 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 972 | 1364 | 824 | 1900 | | | | 5060 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 0 | 47 | | | | 89 |
| B | 20 | 0 | 28 | 47 | | | | 95 |
| C | 1 | 60 | 0 | 48 | | | | 109 |
| D | 89 | 62 | 62 | 0 | | | | 213 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 110 | 164 | 90 | 142 | | | | 506 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 0 | 18 | | | | 40 |
| B | 11 | 0 | 6 | 3 | | | | 20 |
| C | 1 | 21 | 0 | 0 | | | | 22 |
| D | 14 | 1 | 6 | 0 | | | | 21 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 44 | 12 | 21 | | | | 103 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A576 Middleton Road / A6045 Heywood Old Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 3 | 500 | | | | 517 |
| B | 57 | 0 | 3 | 688 | | | | 748 |
| C | 4 | 4 | 0 | 15 | | | | 22 |
| D | 320 | 690 | 7 | 0 | | | | 1017 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 380 | 708 | 13 | 1203 | | | | 2306 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 2 | 368 | | | | 375 |
| B | 38 | 0 | 1 | 511 | | | | 550 |
| C | 2 | 2 | 0 | 11 | | | | 16 |
| D | 244 | 512 | 5 | 0 | | | | 762 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 284 | 519 | 9 | 891 | | | | 1703 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 0 | 103 | | | | 110 |
| B | 5 | 0 | 0 | 96 | | | | 102 |
| C | 1 | 1 | 0 | 3 | | | | 5 |
| D | 31 | 90 | 1 | 0 | | | | 122 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 37 | 98 | 2 | 202 | | | | 338 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 0 | 29 | | | | 32 |
| B | 14 | 0 | 2 | 63 | | | | 78 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 45 | 72 | 1 | 0 | | | | 118 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 60 | 76 | 3 | 93 | | | | 231 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 34 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 82 | 6 | 261 | | | | 349 |
| B | 95 | 0 | 5 | 554 | | | | 654 |
| C | 5 | 5 | 0 | 8 | | | | 18 |
| D | 454 | 673 | 8 | 0 | | | | 1135 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 554 | 760 | 20 | 823 | | | | 2156 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 70 | 4 | 188 | | | | 262 |
| B | 58 | 0 | 3 | 405 | | | | 467 |
| C | 3 | 3 | 0 | 6 | | | | 12 |
| D | 326 | 479 | 6 | 0 | | | | 811 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 387 | 552 | 14 | 599 | | | | 1552 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 1 | 35 | | | | 44 |
| B | 10 | 0 | 1 | 73 | | | | 84 |
| C | 1 | 1 | 0 | 1 | | | | 3 |
| D | 77 | 115 | 1 | 0 | | | | 194 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 89 | 124 | 4 | 109 | | | | 325 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 1 | 37 | | | | 43 |
| B | 26 | 0 | 1 | 58 | | | | 85 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 51 | 61 | 1 | 0 | | | | 113 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 78 | 66 | 2 | 96 | | | | 243 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.87 | 0 | 17.96 | | | | 35.83 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 2 | 342 | | | | 417 |
| B | 131 | 0 | 4 | 585 | | | | 720 |
| C | 4 | 5 | 0 | 5 | | | | 14 |
| D | 698 | 880 | 10 | 0 | | | | 1588 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 833 | 959 | 16 | 932 | | | | 2740 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 67 | 2 | 300 | | | | 369 |
| B | 122 | 0 | 4 | 498 | | | | 624 |
| C | 3 | 4 | 0 | 3 | | | | 11 |
| D | 603 | 752 | 8 | 0 | | | | 1364 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 728 | 823 | 14 | 801 | | | | 2367 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 0 | 36 | | | | 41 |
| B | 8 | 0 | 0 | 58 | | | | 66 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 75 | 87 | 1 | 0 | | | | 164 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 84 | 92 | 1 | 95 | | | | 272 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 0 | 6 | | | | 8 |
| B | 1 | 0 | 0 | 13 | | | | 14 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 19 | 24 | 1 | 0 | | | | 44 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 21 | 25 | 1 | 20 | | | | 67 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 17 | 0 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.31 | 0 | 15.71 | | | | 33.02 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 80 | 909 | | | | | 989 |
| B | 0 | 0 | 1042 | | | | | 1042 |
| C | 1771 | 675 | 0 | | | | | 2446 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1771 | 755 | 1951 | | | | | 4477 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 682 | | | | | 743 |
| B | 0 | 0 | 787 | | | | | 787 |
| C | 1382 | 514 | 0 | | | | | 1896 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1382 | 575 | 1469 | | | | | 3426 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 94 | | | | | 106 |
| B | 0 | 0 | 185 | | | | | 185 |
| C | 153 | 107 | 0 | | | | | 259 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 153 | 119 | 278 | | | | | 550 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 103 | | | | | 110 |
| B | 0 | 0 | 71 | | | | | 71 |
| C | 206 | 54 | 0 | | | | | 260 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 206 | 61 | 174 | | | | | 441 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 29 | | | | | 29 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 31 | 0 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 0 | 29 | | | | | 60 |

### Model_2_Heywood_DS1a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 905 | | | | | 906 |
| B | 0 | 0 | 948 | | | | | 948 |
| C | 1423 | 589 | 0 | | | | | 2012 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1423 | 590 | 1853 | | | | | 3866 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 663 | | | | | 664 |
| B | 0 | 0 | 655 | | | | | 655 |
| C | 1047 | 386 | 0 | | | | | 1433 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1047 | 387 | 1318 | | | | | 2752 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 101 | | | | | 102 |
| B | 0 | 0 | 181 | | | | | 181 |
| C | 182 | 131 | 0 | | | | | 313 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 182 | 132 | 283 | | | | | 596 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 111 | | | | | 111 |
| B | 0 | 0 | 112 | | | | | 112 |
| C | 162 | 71 | 0 | | | | | 233 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 162 | 71 | 223 | | | | | 456 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.66 | 0 | 29.71 | | | | | 61.37 |

### Model_3_Heywood_DS1a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 1027 | | | | | 1031 |
| B | 0 | 0 | 1041 | | | | | 1041 |
| C | 1663 | 718 | 0 | | | | | 2380 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1663 | 721 | 2068 | | | | | 4452 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 928 | | | | | 930 |
| B | 0 | 0 | 943 | | | | | 943 |
| C | 1475 | 608 | 0 | | | | | 2082 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1475 | 609 | 1871 | | | | | 3955 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 52 | | | | | 53 |
| B | 0 | 0 | 78 | | | | | 78 |
| C | 118 | 79 | 0 | | | | | 197 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 118 | 80 | 130 | | | | | 329 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 20 | | | | | 21 |
| B | 0 | 0 | 20 | | | | | 20 |
| C | 41 | 31 | 0 | | | | | 72 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 41 | 32 | 40 | | | | | 113 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.87 | 0 | 27.26 | | | | | 56.13 |

## Run 8 - 2032 Do Something 3a - Origin-Destination Matrices

- Policy Off (Non Vision-Led)
- including 395,000sqm of the JPA1.1 Allocation Site & 473 dwellings within JPA1.2 Allocation Site expected to be built in 2032
- excluding the M62 Access solution
- including Common Highway Mitigation Package and J18 DCO works
- Whittle Lane capacity constrained and South Heywood Link Closed

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60057 | 60011 | 4924 | 2718 | C1-M62 WC1-M62 West |
| E | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizab |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 234 | 255 | 501 | 13 | | | 1003 |
| B | 240 | 0 | 156 | 0 | 598 | | | 994 |
| C | 253 | 201 | 0 | 220 | 98 | | | 772 |
| D | 186 | 0 | 121 | 2 | 306 | | | 615 |
| E | 1 | 458 | 116 | 167 | 0 | | | 742 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 680 | 893 | 648 | 890 | 1015 | | | 4126 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 154 | 185 | 349 | 12 | | | 700 |
| B | 162 | 0 | 56 | 0 | 313 | | | 531 |
| C | 205 | 167 | 0 | 196 | 66 | | | 634 |
| D | 90 | 0 | 88 | 0 | 210 | | | 388 |
| E | 0 | 240 | 63 | 154 | 0 | | | 457 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 457 | 561 | 392 | 699 | 601 | | | 2710 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 61 | 62 | 1 | | | 184 |
| B | 36 | 0 | 63 | 0 | 84 | | | 183 |
| C | 43 | 11 | 0 | 20 | 17 | | | 91 |
| D | 54 | 0 | 11 | 1 | 25 | | | 91 |
| E | 1 | 36 | 9 | 8 | 0 | | | 54 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 134 | 107 | 144 | 91 | 127 | | | 603 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 9 | 90 | 0 | | | 119 |
| B | 42 | 0 | 37 | 0 | 201 | | | 280 |
| C | 5 | 23 | 0 | 4 | 15 | | | 47 |
| D | 42 | 0 | 22 | 1 | 71 | | | 136 |
| E | 0 | 182 | 44 | 5 | 0 | | | 231 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 89 | 225 | 112 | 100 | 287 | | | 813 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 238 | 260 | 255 | 2 | | | 755 |
| B | 164 | 0 | 116 | 0 | 291 | | | 571 |
| C | 198 | 246 | 0 | 251 | 91 | | | 786 |
| D | 204 | 0 | 97 | 8 | 275 | | | 584 |
| E | 7 | 379 | 94 | 86 | 0 | | | 566 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 573 | 863 | 567 | 600 | 659 | | | 3262 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 157 | 215 | 141 | 1 | | | 514 |
| B | 92 | 0 | 83 | 0 | 123 | | | 298 |
| C | 145 | 163 | 0 | 159 | 60 | | | 527 |
| D | 87 | 0 | 72 | 0 | 52 | | | 211 |
| E | 4 | 124 | 42 | 22 | 0 | | | 192 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 328 | 444 | 412 | 322 | 236 | | | 1742 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 32 | 57 | 1 | | | 141 |
| B | 38 | 0 | 23 | 0 | 29 | | | 90 |
| C | 32 | 33 | 0 | 55 | 10 | | | 130 |
| D | 51 | 0 | 19 | 1 | 40 | | | 111 |
| E | 3 | 58 | 13 | 10 | 0 | | | 84 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 124 | 142 | 87 | 123 | 80 | | | 556 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 13 | 57 | 0 | | | 100 |
| B | 34 | 0 | 10 | 0 | 139 | | | 183 |
| C | 21 | 50 | 0 | 37 | 21 | | | 129 |
| D | 66 | 0 | 6 | 7 | 183 | | | 262 |
| E | 0 | 197 | 39 | 54 | 0 | | | 290 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 277 | 68 | 155 | 343 | | | 964 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 229 | 271 | 317 | 5 | | | 822 |
| B | 200 | 0 | 179 | 0 | 424 | | | 803 |
| C | 261 | 226 | 0 | 244 | 73 | | | 804 |
| D | 269 | 0 | 208 | 0 | 262 | | | 739 |
| E | 12 | 524 | 78 | 39 | 0 | | | 653 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 742 | 979 | 736 | 600 | 764 | | | 3821 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 178 | 240 | 284 | 3 | | | 705 |
| B | 146 | 0 | 146 | 0 | 260 | | | 552 |
| C | 240 | 213 | 0 | 188 | 62 | | | 703 |
| D | 213 | 0 | 170 | 0 | 180 | | | 563 |
| E | 11 | 416 | 58 | 30 | 0 | | | 515 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 610 | 807 | 614 | 502 | 505 | | | 3038 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 26 | 17 | 2 | | | 82 |
| B | 32 | 0 | 26 | 0 | 38 | | | 96 |
| C | 19 | 13 | 0 | 34 | 5 | | | 71 |
| D | 30 | 0 | 33 | 0 | 21 | | | 84 |
| E | 1 | 26 | 5 | 2 | 0 | | | 34 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 82 | 76 | 90 | 53 | 66 | | | 367 |

MODELLED — HGV

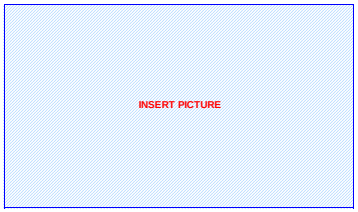
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 5 | 16 | 0 | | | 35 |
| B | 22 | 0 | 7 | 0 | 126 | | | 155 |
| C | 2 | 0 | 0 | 22 | 6 | | | 30 |
| D | 26 | 0 | 5 | 0 | 61 | | | 92 |
| E | 0 | 82 | 15 | 7 | 0 | | | 104 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 96 | 32 | 45 | 193 | | | 416 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | 045 Manchester Road |
| B | 60003 | 60010 | 60010 | 60003 | 4 Queen Elizabeth Wa |
| C | 2814 | 60010 | 60010 | 2814 | 045 Manchester Road |
| D | 60008 | 60010 | 60010 | 60008 | 4 Queen Elizabeth Wa |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 186 | 210 | 88 | | | | 484 |
| B | 134 | 0 | 112 | 769 | | | | 1016 |
| C | 318 | 78 | 0 | 98 | | | | 494 |
| D | 88 | 481 | 39 | 0 | | | | 608 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 540 | 744 | 362 | 956 | | | | 2602 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 170 | 156 | 69 | | | | 396 |
| B | 104 | 0 | 83 | 415 | | | | 601 |
| C | 277 | 66 | 0 | 65 | | | | 408 |
| D | 66 | 221 | 32 | 0 | | | | 319 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 446 | 458 | 271 | 548 | | | | 1724 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 32 | 18 | | | | 57 |
| B | 15 | 0 | 26 | 87 | | | | 128 |
| C | 26 | 9 | 0 | 8 | | | | 43 |
| D | 15 | 38 | 5 | 0 | | | | 59 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 54 | 63 | 113 | | | | 286 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 21 | 1 | | | | 30 |
| B | 16 | 0 | 3 | 268 | | | | 287 |
| C | 15 | 2 | 0 | 25 | | | | 43 |
| D | 7 | 221 | 2 | 0 | | | | 230 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 232 | 26 | 294 | | | | 590 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 223 | 70 | | | | 331 |
| B | 95 | 0 | 60 | 502 | | | | 657 |
| C | 321 | 79 | 0 | 99 | | | | 499 |
| D | 68 | 449 | 52 | 0 | | | | 569 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 484 | 567 | 335 | 671 | | | | 2056 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 165 | 51 | | | | 239 |
| B | 72 | 0 | 46 | 116 | | | | 235 |
| C | 242 | 50 | 0 | 63 | | | | 355 |
| D | 44 | 120 | 34 | 0 | | | | 197 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 358 | 193 | 244 | 230 | | | | 1025 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 28 | 17 | | | | 51 |
| B | 11 | 0 | 10 | 59 | | | | 80 |
| C | 42 | 13 | 0 | 18 | | | | 74 |
| D | 22 | 65 | 7 | 0 | | | | 94 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 84 | 46 | 94 | | | | 299 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 28 | 1 | | | | 39 |
| B | 12 | 0 | 4 | 327 | | | | 343 |
| C | 34 | 16 | 0 | 18 | | | | 68 |
| D | 3 | 264 | 11 | 0 | | | | 278 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 290 | 42 | 347 | | | | 728 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 279 | 59 | | | | 373 |
| B | 132 | 0 | 151 | 479 | | | | 762 |
| C | 464 | 171 | 0 | 86 | | | | 722 |
| D | 103 | 449 | 62 | 0 | | | | 613 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 699 | 656 | 492 | 624 | | | | 2470 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 244 | 41 | | | | 310 |
| B | 113 | 0 | 133 | 258 | | | | 504 |
| C | 401 | 152 | 0 | 64 | | | | 617 |
| D | 85 | 341 | 50 | 0 | | | | 476 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 599 | 517 | 427 | 364 | | | | 1906 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 27 | 15 | | | | 45 |
| B | 13 | 0 | 15 | 38 | | | | 66 |
| C | 44 | 18 | 0 | 14 | | | | 76 |
| D | 10 | 13 | 9 | 0 | | | | 32 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 67 | 34 | 50 | 67 | | | | 219 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 6 | 2 | | | | 16 |
| B | 6 | 0 | 4 | 183 | | | | 193 |
| C | 17 | 1 | 0 | 8 | | | | 27 |
| D | 8 | 94 | 4 | 0 | | | | 106 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 104 | 13 | 193 | | | | 341 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.96 | 0 | 1.98 | 0 | | | | 3.94 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Hill Top Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | rehills Rd EB |
| B | 60036 | 60031 | 60031 | 60036 | ill Top Road |
| C | 60230 | 7454 | 7454 | 60230 | rehills Rd SB |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 119 | 476 | 47 | | | | 642 |
| B | 90 | 0 | 10 | 2 | | | | 102 |
| C | 772 | 64 | 0 | 157 | | | | 993 |
| D | 62 | 0 | 38 | 0 | | | | 100 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 924 | 183 | 524 | 206 | | | | 1837 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 235 | 37 | | | | 331 |
| B | 11 | 0 | 1 | 0 | | | | 12 |
| C | 484 | 39 | 0 | 63 | | | | 586 |
| D | 14 | 0 | 3 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 509 | 98 | 239 | 100 | | | | 946 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 52 | 6 | | | | 66 |
| B | 7 | 0 | 0 | 1 | | | | 8 |
| C | 90 | 5 | 0 | 19 | | | | 114 |
| D | 14 | 0 | 2 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 111 | 13 | 54 | 26 | | | | 204 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 189 | 4 | | | | 245 |
| B | 72 | 0 | 9 | 1 | | | | 82 |
| C | 198 | 20 | 0 | 75 | | | | 293 |
| D | 34 | 0 | 33 | 0 | | | | 67 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 304 | 72 | 231 | 80 | | | | 687 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 431 | 27 | | | | 531 |
| B | 85 | 0 | 44 | 1 | | | | 130 |
| C | 502 | 46 | 0 | 113 | | | | 661 |
| D | 62 | 2 | 89 | 0 | | | | 153 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 649 | 121 | 564 | 141 | | | | 1475 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 166 | 21 | | | | 210 |
| B | 30 | 0 | 12 | 0 | | | | 42 |
| C | 193 | 8 | 0 | 20 | | | | 221 |
| D | 34 | 1 | 15 | 0 | | | | 50 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 257 | 32 | 193 | 41 | | | | 523 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 73 | 5 | | | | 88 |
| B | 13 | 0 | 8 | 1 | | | | 22 |
| C | 64 | 7 | 0 | 22 | | | | 93 |
| D | 17 | 1 | 12 | 0 | | | | 30 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 18 | 93 | 28 | | | | 233 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 192 | 1 | | | | 233 |
| B | 42 | 0 | 24 | 0 | | | | 66 |
| C | 245 | 31 | 0 | 71 | | | | 347 |
| D | 11 | 0 | 62 | 0 | | | | 73 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 298 | 71 | 278 | 72 | | | | 719 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 49 | 544 | 12 | | | | 605 |
| B | 94 | 0 | 50 | 0 | | | | 144 |
| C | 482 | 24 | 0 | 52 | | | | 558 |
| D | 146 | 0 | 52 | 0 | | | | 198 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 722 | 73 | 646 | 64 | | | | 1505 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 443 | 11 | | | | 473 |
| B | 68 | 0 | 30 | 0 | | | | 98 |
| C | 281 | 11 | 0 | 10 | | | | 302 |
| D | 111 | 0 | 31 | 0 | | | | 142 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 460 | 30 | 504 | 21 | | | | 1015 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 28 | 1 | | | | 31 |
| B | 3 | 0 | 8 | 0 | | | | 11 |
| C | 58 | 1 | 0 | 4 | | | | 63 |
| D | 12 | 0 | 1 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 73 | 3 | 37 | 5 | | | | 118 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 73 | 0 | | | | 101 |
| B | 23 | 0 | 12 | 0 | | | | 35 |
| C | 143 | 12 | 0 | 38 | | | | 193 |
| D | 23 | 0 | 20 | 0 | | | | 43 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 189 | 40 | 105 | 38 | | | | 372 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Pilsworth Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 181 | 419 | | | | | 601 |
| B | 412 | 0 | 224 | | | | | 635 |
| C | 675 | 248 | 0 | | | | | 924 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1087 | 430 | 643 | | | | | 2160 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 132 | 167 | | | | | 299 |
| B | 309 | 0 | 164 | | | | | 474 |
| C | 336 | 172 | 0 | | | | | 508 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 646 | 304 | 331 | | | | | 1281 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 32 | | | | | 51 |
| B | 43 | 0 | 35 | | | | | 78 |
| C | 66 | 45 | 0 | | | | | 111 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 109 | 64 | 67 | | | | | 240 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 220 | | | | | 251 |
| B | 59 | 0 | 25 | | | | | 84 |
| C | 273 | 32 | 0 | | | | | 304 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 332 | 62 | 245 | | | | | 639 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 288 | 406 | | | | | 694 |
| B | 245 | 0 | 124 | | | | | 369 |
| C | 471 | 179 | 0 | | | | | 650 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 716 | 467 | 530 | | | | | 1713 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 175 | 129 | | | | | 304 |
| B | 156 | 0 | 79 | | | | | 235 |
| C | 149 | 109 | 0 | | | | | 258 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 305 | 284 | 208 | | | | | 797 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 66 | | | | | 104 |
| B | 34 | 0 | 22 | | | | | 56 |
| C | 60 | 34 | 0 | | | | | 94 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 72 | 88 | | | | | 254 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 211 | | | | | 286 |
| B | 56 | 0 | 23 | | | | | 78 |
| C | 262 | 36 | 0 | | | | | 298 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 318 | 111 | 233 | | | | | 662 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 343 | 461 | | | | | 804 |
| B | 236 | 0 | 144 | | | | | 379 |
| C | 471 | 251 | 0 | | | | | 722 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 707 | 594 | 605 | | | | | 1905 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 299 | 356 | | | | | 655 |
| B | 190 | 0 | 117 | | | | | 307 |
| C | 248 | 211 | 0 | | | | | 460 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 439 | 511 | 473 | | | | | 1422 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 13 | | | | | 33 |
| B | 11 | 0 | 17 | | | | | 28 |
| C | 43 | 30 | 0 | | | | | 73 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 49 | 30 | | | | | 134 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 92 | | | | | 115 |
| B | 34 | 0 | 10 | | | | | 44 |
| C | 180 | 10 | 0 | | | | | 190 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 214 | 34 | 102 | | | | | 349 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / A58 Bury St

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 521 | 137 | | | | | 658 |
| B | 616 | 0 | 401 | | | | | 1016 |
| C | 176 | 307 | 0 | | | | | 483 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 792 | 828 | 538 | | | | | 2157 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 353 | 114 | | | | | 467 |
| B | 408 | 0 | 288 | | | | | 696 |
| C | 128 | 239 | 0 | | | | | 367 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 535 | 593 | 402 | | | | | 1530 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 97 | 16 | | | | | 113 |
| B | 113 | 0 | 38 | | | | | 151 |
| C | 37 | 22 | 0 | | | | | 59 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 150 | 120 | 54 | | | | | 323 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 7 | | | | | 68 |
| B | 85 | 0 | 55 | | | | | 140 |
| C | 11 | 27 | 0 | | | | | 38 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 97 | 88 | 62 | | | | | 246 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 29 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 28 | 20 | | | | | 57 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 503 | 90 | | | | | 592 |
| B | 483 | 0 | 292 | | | | | 775 |
| C | 130 | 324 | 0 | | | | | 454 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 613 | 827 | 382 | | | | | 1822 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 361 | 68 | | | | | 429 |
| B | 333 | 0 | 186 | | | | | 519 |
| C | 102 | 195 | 0 | | | | | 297 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 434 | 556 | 254 | | | | | 1245 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 16 | | | | | 91 |
| B | 83 | 0 | 36 | | | | | 119 |
| C | 18 | 34 | 0 | | | | | 52 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 101 | 109 | 51 | | | | | 261 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 57 | 6 | | | | | 63 |
| B | 57 | 0 | 50 | | | | | 107 |
| C | 10 | 77 | 0 | | | | | 87 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 67 | 134 | 56 | | | | | 258 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.91 | 27.89 | 19.82 | | | | | 57.62 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 528 | 106 | | | | | 634 |
| B | 553 | 0 | 321 | | | | | 874 |
| C | 189 | 309 | 0 | | | | | 498 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 742 | 837 | 427 | | | | | 2006 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 470 | 93 | | | | | 563 |
| B | 483 | 0 | 261 | | | | | 744 |
| C | 171 | 265 | 0 | | | | | 436 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 654 | 735 | 354 | | | | | 1743 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 10 | | | | | 52 |
| B | 48 | 0 | 25 | | | | | 73 |
| C | 15 | 22 | 0 | | | | | 37 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 63 | 64 | 36 | | | | | 163 |

MODELLED — HGV

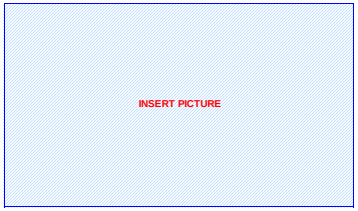
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 3 | | | | | 11 |
| B | 14 | 0 | 15 | | | | | 29 |
| C | 3 | 4 | 0 | | | | | 7 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 17 | 12 | 18 | | | | | 47 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 20 | | | | | 28 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.86 | 25.8 | 19.65 | | | | | 53.31 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / Heywood Distribution Centre




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | Pilsworth Rd NB |
| B | 20430 | 7459 | 7459 | 20430 | ywood Distribution Cer |
| C | 2813 | 7459 | 7459 | 2813 | Pilsworth Rd SB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 256 | 456 | | | | | 712 |
| B | 148 | 0 | 145 | | | | | 293 |
| C | 849 | 238 | 0 | | | | | 1087 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 997 | 494 | 601 | | | | | 2092 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 134 | 267 | | | | | 401 |
| B | 32 | 0 | 32 | | | | | 64 |
| C | 501 | 145 | 0 | | | | | 646 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 533 | 279 | 299 | | | | | 1111 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 35 | | | | | 55 |
| B | 24 | 0 | 16 | | | | | 40 |
| C | 90 | 19 | 0 | | | | | 109 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 114 | 40 | 51 | | | | | 204 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 101 | 155 | | | | | 256 |
| B | 93 | 0 | 96 | | | | | 189 |
| C | 258 | 74 | 0 | | | | | 332 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 351 | 175 | 251 | | | | | 777 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 103 | 519 | | | | | 622 |
| B | 199 | 0 | 175 | | | | | 374 |
| C | 464 | 252 | 0 | | | | | 716 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 664 | 355 | 694 | | | | | 1713 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 228 | | | | | 278 |
| B | 81 | 0 | 76 | | | | | 157 |
| C | 231 | 74 | 0 | | | | | 305 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 312 | 124 | 304 | | | | | 740 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 80 | | | | | 98 |
| B | 30 | 0 | 24 | | | | | 54 |
| C | 62 | 31 | 0 | | | | | 94 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 92 | 50 | 104 | | | | | 246 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 211 | | | | | 246 |
| B | 88 | 0 | 75 | | | | | 163 |
| C | 171 | 146 | 0 | | | | | 318 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 260 | 181 | 286 | | | | | 727 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 64 | 673 | | | | | 737 |
| B | 200 | 0 | 131 | | | | | 331 |
| C | 578 | 129 | 0 | | | | | 707 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 778 | 192 | 804 | | | | | 1775 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 558 | | | | | 584 |
| B | 157 | 0 | 97 | | | | | 254 |
| C | 387 | 51 | 0 | | | | | 439 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 545 | 77 | 655 | | | | | 1277 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 28 | | | | | 31 |
| B | 13 | 0 | 5 | | | | | 18 |
| C | 42 | 12 | 0 | | | | | 54 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 55 | 15 | 33 | | | | | 104 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 87 | | | | | 122 |
| B | 30 | 0 | 28 | | | | | 58 |
| C | 148 | 66 | 0 | | | | | 214 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 178 | 100 | 115 | | | | | 394 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / JPA1.1 & SHDA employment

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | Pilsworth Rd SB |
| B | 60027 | 60229 | 60229 | 60027 | SHDA |
| C | 60024 | 60229 | 60229 | 60024 | Pilsworth Rd NB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 977 | | | | | 997 |
| B | 12 | 0 | 16 | | | | | 28 |
| C | 700 | 31 | 0 | | | | | 731 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 712 | 51 | 993 | | | | | 1757 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 524 | | | | | 533 |
| B | 2 | 0 | 4 | | | | | 7 |
| C | 399 | 14 | 0 | | | | | 412 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 401 | 23 | 528 | | | | | 952 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 111 | | | | | 114 |
| B | 1 | 0 | 2 | | | | | 4 |
| C | 54 | 3 | 0 | | | | | 57 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 55 | 6 | 114 | | | | | 175 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 342 | | | | | 351 |
| B | 8 | 0 | 10 | | | | | 18 |
| C | 248 | 14 | 0 | | | | | 262 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 256 | 23 | 351 | | | | | 630 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 651 | | | | | 664 |
| B | 18 | 0 | 25 | | | | | 42 |
| C | 605 | 26 | 0 | | | | | 631 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 622 | 39 | 676 | | | | | 1337 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 307 | | | | | 312 |
| B | 5 | 0 | 8 | | | | | 13 |
| C | 273 | 7 | 0 | | | | | 279 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 278 | 12 | 315 | | | | | 604 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 90 | | | | | 92 |
| B | 3 | 0 | 4 | | | | | 8 |
| C | 95 | 5 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 98 | 7 | 94 | | | | | 200 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 254 | | | | | 260 |
| B | 9 | 0 | 13 | | | | | 22 |
| C | 237 | 15 | 0 | | | | | 251 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 246 | 20 | 266 | | | | | 533 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 771 | | | | | 778 |
| B | 15 | 0 | 28 | | | | | 43 |
| C | 722 | 12 | 0 | | | | | 734 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 737 | 19 | 799 | | | | | 1555 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 543 | | | | | 545 |
| B | 8 | 0 | 19 | | | | | 27 |
| C | 575 | 4 | 0 | | | | | 579 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 584 | 6 | 561 | | | | | 1151 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 55 | | | | | 55 |
| B | 1 | 0 | 2 | | | | | 3 |
| C | 30 | 1 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 1 | 57 | | | | | 89 |

MODELLED — HGV

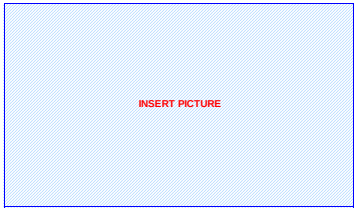
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 174 | | | | | 178 |
| B | 6 | 0 | 7 | | | | | 13 |
| C | 116 | 7 | 0 | | | | | 124 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 12 | 181 | | | | | 315 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** 3 Arrows (Pilsworth Road / Moss Hall Road - South)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 60241 | 2037 | 2037 | 60241 | *Link Road* |
| D | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 332 | 649 | 12 | | | | 993 |
| B | 135 | 0 | 315 | 2 | | | | 452 |
| C | 593 | 438 | 0 | 17 | | | | 1048 |
| D | 3 | 1 | 13 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 731 | 771 | 978 | 31 | | | | 2510 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 165 | 357 | 6 | | | | 528 |
| B | 21 | 0 | 140 | 2 | | | | 163 |
| C | 391 | 261 | 0 | 5 | | | | 656 |
| D | 1 | 1 | 1 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 412 | 426 | 498 | 13 | | | | 1349 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 87 | 1 | | | | 114 |
| B | 11 | 0 | 62 | 0 | | | | 74 |
| C | 46 | 57 | 0 | 4 | | | | 107 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 82 | 149 | 6 | | | | 294 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 142 | 205 | 4 | | | | 351 |
| B | 103 | 0 | 113 | 0 | | | | 216 |
| C | 157 | 120 | 0 | 8 | | | | 284 |
| D | 2 | 0 | 13 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 262 | 262 | 331 | 12 | | | | 867 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 197 | 475 | 4 | | | | 676 |
| B | 220 | 0 | 385 | 1 | | | | 607 |
| C | 399 | 340 | 0 | 22 | | | | 761 |
| D | 12 | 1 | 17 | 0 | | | | 30 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 631 | 538 | 877 | 27 | | | | 2073 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 251 | 2 | | | | 315 |
| B | 74 | 0 | 186 | 0 | | | | 261 |
| C | 202 | 150 | 0 | 2 | | | | 354 |
| D | 3 | 1 | 5 | 0 | | | | 8 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 279 | 211 | 442 | 5 | | | | 937 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 63 | 2 | | | | 94 |
| B | 30 | 0 | 59 | 0 | | | | 90 |
| C | 68 | 47 | 0 | 2 | | | | 116 |
| D | 2 | 0 | 1 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 100 | 77 | 123 | 4 | | | | 304 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 106 | 160 | 0 | | | | 266 |
| B | 116 | 0 | 140 | 0 | | | | 256 |
| C | 129 | 144 | 0 | 18 | | | | 291 |
| D | 7 | 0 | 11 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 251 | 250 | 312 | 18 | | | | 832 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 111 | 675 | 13 | | | | 799 |
| B | 179 | 0 | 572 | 3 | | | | 754 |
| C | 550 | 209 | 0 | 16 | | | | 775 |
| D | 6 | 1 | 11 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 734 | 321 | 1258 | 33 | | | | 2346 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 520 | 8 | | | | 561 |
| B | 116 | 0 | 454 | 3 | | | | 573 |
| C | 459 | 123 | 0 | 10 | | | | 592 |
| D | 4 | 1 | 8 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 579 | 157 | 982 | 21 | | | | 1740 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 50 | 0 | | | | 57 |
| B | 5 | 0 | 38 | 0 | | | | 43 |
| C | 25 | 15 | 0 | 1 | | | | 41 |
| D | 1 | 0 | 2 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 22 | 89 | 1 | | | | 143 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 104 | 5 | | | | 181 |
| B | 57 | 0 | 80 | 0 | | | | 138 |
| C | 66 | 71 | 0 | 5 | | | | 142 |
| D | 0 | 0 | 2 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 124 | 142 | 187 | 10 | | | | 463 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Fowler Welch (Pilsworth Road / Moss Hall Road - North)

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60241 | 60246 | 60246 | 60241 | *Moss Hall Rd NB* |
| B | 60000 | 60213 | 60213 | 60000 | *Pilsworth Road* |
| C | 60228 | 2038 | 2038 | 60228 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 856 | 122 | | | | | 978 |
| B | 888 | 0 | 67 | | | | | 955 |
| C | 160 | 124 | 0 | | | | | 284 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1048 | 980 | 189 | | | | | 2217 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 455 | 43 | | | | | 498 |
| B | 559 | 0 | 43 | | | | | 602 |
| C | 97 | 98 | 0 | | | | | 195 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 656 | 553 | 86 | | | | | 1295 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 95 | 54 | | | | | 149 |
| B | 74 | 0 | 10 | | | | | 84 |
| C | 33 | 18 | 0 | | | | | 51 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 107 | 113 | 64 | | | | | 284 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 306 | 25 | | | | | 331 |
| B | 255 | 0 | 14 | | | | | 269 |
| C | 30 | 8 | 0 | | | | | 38 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 285 | 314 | 39 | | | | | 638 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 660 | 217 | | | | | 877 |
| B | 711 | 0 | 78 | | | | | 789 |
| C | 49 | 101 | 0 | | | | | 150 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 760 | 761 | 295 | | | | | 1816 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 301 | 141 | | | | | 442 |
| B | 342 | 0 | 61 | | | | | 403 |
| C | 11 | 82 | 0 | | | | | 93 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 353 | 383 | 202 | | | | | 938 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 89 | 34 | | | | | 123 |
| B | 97 | 0 | 11 | | | | | 108 |
| C | 19 | 14 | 0 | | | | | 33 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 116 | 103 | 45 | | | | | 264 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 270 | 42 | | | | | 312 |
| B | 272 | 0 | 6 | | | | | 278 |
| C | 19 | 5 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 291 | 275 | 48 | | | | | 614 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 915 | 343 | | | | | 1258 |
| B | 739 | 0 | 191 | | | | | 930 |
| C | 35 | 128 | 0 | | | | | 163 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 774 | 1043 | 534 | | | | | 2351 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 687 | 295 | | | | | 982 |
| B | 576 | 0 | 168 | | | | | 744 |
| C | 15 | 115 | 0 | | | | | 130 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 591 | 802 | 463 | | | | | 1856 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 66 | 24 | | | | | 90 |
| B | 32 | 0 | 21 | | | | | 53 |
| C | 9 | 12 | 0 | | | | | 21 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 41 | 78 | 45 | | | | | 164 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 162 | 24 | | | | | 186 |
| B | 131 | 0 | 2 | | | | | 133 |
| C | 11 | 1 | 0 | | | | | 12 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 142 | 163 | 26 | | | | | 331 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | TC 11 - Pilsworth Rd E |
| B | 3001 | 60238 | 60239 | 3000 | JTC 11 - M66 SB Off |
| C | 60213 | 60000 | 60000 | 60213 | TC 11 - Pilsworth Rd W |
| D | 60236 | 4918 | 60240 | 2998 | JTC 11 - M66 NB Off |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 362 | 381 | 208 | | | | 951 |
| B | 419 | 0 | 194 | 0 | | | | 613 |
| C | 342 | 215 | 0 | 423 | | | | 980 |
| D | 688 | 0 | 380 | 0 | | | | 1068 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1449 | 577 | 955 | 631 | | | | 3612 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 259 | 303 | 136 | | | | 698 |
| B | 337 | 0 | 170 | 0 | | | | 507 |
| C | 262 | 145 | 0 | 145 | | | | 552 |
| D | 575 | 0 | 129 | 0 | | | | 704 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1174 | 404 | 602 | 281 | | | | 2461 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 56 | 35 | 55 | | | | 146 |
| B | 49 | 0 | 14 | 0 | | | | 63 |
| C | 51 | 21 | 0 | 42 | | | | 114 |
| D | 63 | 0 | 35 | 0 | | | | 98 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 163 | 77 | 84 | 97 | | | | 421 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 43 | 17 | | | | 107 |
| B | 33 | 0 | 10 | 0 | | | | 43 |
| C | 29 | 49 | 0 | 236 | | | | 314 |
| D | 50 | 0 | 216 | 0 | | | | 266 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 112 | 96 | 269 | 253 | | | | 730 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 422 | 328 | 200 | | | | 950 |
| B | 340 | 0 | 129 | 0 | | | | 469 |
| C | 231 | 71 | 0 | 459 | | | | 761 |
| D | 357 | 0 | 332 | 0 | | | | 689 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 928 | 493 | 789 | 659 | | | | 2869 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 323 | 203 | 174 | | | | 700 |
| B | 255 | 0 | 101 | 0 | | | | 356 |
| C | 179 | 37 | 0 | 166 | | | | 382 |
| D | 252 | 0 | 99 | 0 | | | | 351 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 686 | 360 | 403 | 340 | | | | 1789 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 49 | 21 | | | | 124 |
| B | 43 | 0 | 11 | 0 | | | | 54 |
| C | 28 | 12 | 0 | 63 | | | | 103 |
| D | 49 | 0 | 48 | 0 | | | | 97 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 120 | 66 | 108 | 84 | | | | 378 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 76 | 5 | | | | 126 |
| B | 42 | 0 | 17 | 0 | | | | 59 |
| C | 24 | 22 | 0 | 230 | | | | 276 |
| D | 56 | 0 | 185 | 0 | | | | 241 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 67 | 278 | 235 | | | | 702 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 472 | 505 | 195 | | | | 1172 |
| B | 286 | 0 | 145 | 0 | | | | 431 |
| C | 336 | 140 | 0 | 568 | | | | 1044 |
| D | 491 | 0 | 282 | 0 | | | | 773 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1113 | 612 | 932 | 763 | | | | 3420 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 431 | 463 | 173 | | | | 1067 |
| B | 250 | 0 | 129 | 0 | | | | 379 |
| C | 294 | 117 | 0 | 392 | | | | 803 |
| D | 375 | 0 | 153 | 0 | | | | 528 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 919 | 548 | 745 | 565 | | | | 2777 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 25 | 19 | | | | 70 |
| B | 27 | 0 | 6 | 0 | | | | 33 |
| C | 22 | 21 | 0 | 35 | | | | 78 |
| D | 53 | 0 | 23 | 0 | | | | 76 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 102 | 47 | 54 | 54 | | | | 257 |

MODELLED — HGV

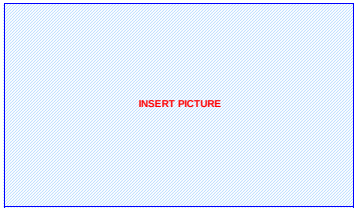
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 17 | 3 | | | | 35 |
| B | 9 | 0 | 10 | 0 | | | | 19 |
| C | 20 | 2 | 0 | 141 | | | | 163 |
| D | 63 | 0 | 106 | 0 | | | | 169 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 92 | 17 | 133 | 144 | | | | 386 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N\12 - M66 NB Of |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water\ 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 141 | 102 | 281 | 1350 | 49 | | 1923 |
| B | 254 | 0 | 25 | 222 | 0 | 35 | | 536 |
| C | 59 | 3 | 0 | 8 | 20 | 0 | | 90 |
| D | 610 | 248 | 23 | 0 | 240 | 65 | | 1186 |
| E | 1457 | 0 | 67 | 166 | 0 | 100 | | 1790 |
| F | 36 | 5 | 1 | 32 | 32 | 0 | | 106 |
| G | | | | | | | | |
| TOTAL | 2416 | 397 | 218 | 709 | 1642 | 249 | | 5631 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 111 | 42 | 214 | 1058 | 45 | | 1470 |
| B | 235 | 0 | 23 | 155 | 0 | 30 | | 443 |
| C | 10 | 1 | 0 | 3 | 7 | 0 | | 21 |
| D | 535 | 166 | 20 | 0 | 146 | 37 | | 904 |
| E | 1087 | 0 | 51 | 98 | 0 | 92 | | 1328 |
| F | 30 | 3 | 1 | 19 | 24 | 0 | | 77 |
| G | | | | | | | | |
| TOTAL | 1897 | 281 | 137 | 489 | 1235 | 204 | | 4243 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 29 | 43 | 179 | 3 | | 278 |
| B | 15 | 0 | 2 | 42 | 0 | 1 | | 60 |
| C | 34 | 2 | 0 | 4 | 8 | 0 | | 48 |
| D | 46 | 40 | 3 | 0 | 46 | 10 | | 145 |
| E | 162 | 0 | 7 | 42 | 0 | 5 | | 216 |
| F | 2 | 1 | 0 | 4 | 4 | 0 | | 11 |
| G | | | | | | | | |
| TOTAL | 259 | 67 | 41 | 135 | 237 | 19 | | 758 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 31 | 24 | 113 | 1 | | 175 |
| B | 4 | 0 | 0 | 25 | 0 | 4 | | 33 |
| C | 15 | 0 | 0 | 1 | 5 | 0 | | 21 |
| D | 29 | 42 | 0 | 0 | 48 | 18 | | 137 |
| E | 208 | 0 | 9 | 26 | 0 | 3 | | 246 |
| F | 4 | 1 | 0 | 9 | 4 | 0 | | 18 |
| G | | | | | | | | |
| TOTAL | 260 | 49 | 40 | 85 | 170 | 26 | | 630 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 168 | 109 | 263 | 1250 | 30 | | 1820 |
| B | 213 | 0 | 21 | 164 | 0 | 11 | | 409 |
| C | 78 | 13 | 0 | 13 | 34 | 1 | | 139 |
| D | 430 | 150 | 29 | 0 | 127 | 57 | | 793 |
| E | 1220 | 0 | 48 | 184 | 0 | 44 | | 1496 |
| F | 38 | 13 | 2 | 37 | 54 | 0 | | 144 |
| G | | | | | | | | |
| TOTAL | 1979 | 344 | 209 | 661 | 1465 | 143 | | 4801 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 127 | 55 | 196 | 914 | 26 | | 1318 |
| B | 175 | 0 | 16 | 102 | 0 | 8 | | 301 |
| C | 28 | 8 | 0 | 9 | 22 | 1 | | 68 |
| D | 333 | 94 | 22 | 0 | 51 | 27 | | 527 |
| E | 864 | 0 | 36 | 104 | 0 | 33 | | 1037 |
| F | 34 | 10 | 2 | 22 | 42 | 0 | | 110 |
| G | | | | | | | | |
| TOTAL | 1434 | 239 | 131 | 433 | 1029 | 95 | | 3361 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 35 | 38 | 183 | 2 | | 282 |
| B | 21 | 0 | 3 | 23 | 0 | 1 | | 48 |
| C | 40 | 3 | 0 | 3 | 7 | 0 | | 53 |
| D | 56 | 32 | 5 | 0 | 27 | 12 | | 132 |
| E | 192 | 0 | 8 | 43 | 0 | 4 | | 247 |
| F | 3 | 2 | 0 | 8 | 4 | 0 | | 17 |
| G | | | | | | | | |
| TOTAL | 312 | 61 | 51 | 115 | 221 | 19 | | 779 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 19 | 29 | 153 | 2 | | 220 |
| B | 17 | 0 | 2 | 39 | 0 | 2 | | 60 |
| C | 10 | 2 | 0 | 1 | 5 | 0 | | 18 |
| D | 41 | 24 | 2 | 0 | 49 | 18 | | 134 |
| E | 164 | 0 | 4 | 37 | 0 | 7 | | 212 |
| F | 1 | 1 | 0 | 7 | 8 | 0 | | 17 |
| G | | | | | | | | |
| TOTAL | 233 | 44 | 27 | 113 | 215 | 29 | | 661 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 1 | 235 | 33 | 388 | 1347 | 40 | | 2044 |
| B | 269 | 0 | 6 | 147 | 0 | 13 | | 435 |
| C | 50 | 13 | 0 | 18 | 48 | 1 | | 130 |
| D | 586 | 170 | 13 | 0 | 172 | 67 | | 1008 |
| E | 1407 | 0 | 18 | 257 | 0 | 50 | | 1732 |
| F | 41 | 17 | 0 | 49 | 109 | 0 | | 216 |
| G | | | | | | | | |
| TOTAL | 2354 | 435 | 70 | 859 | 1676 | 171 | | 5565 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 1 | 222 | 18 | 352 | 1241 | 38 | | 1872 |
| B | 251 | 0 | 5 | 129 | 0 | 12 | | 397 |
| C | 23 | 12 | 0 | 16 | 45 | 1 | | 97 |
| D | 530 | 149 | 11 | 0 | 130 | 57 | | 877 |
| E | 1244 | 0 | 15 | 214 | 0 | 39 | | 1512 |
| F | 38 | 16 | 0 | 44 | 102 | 0 | | 200 |
| G | | | | | | | | |
| TOTAL | 2087 | 399 | 49 | 755 | 1518 | 147 | | 4955 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 13 | 24 | 80 | 2 | | 131 |
| B | 15 | 0 | 1 | 16 | 0 | 1 | | 33 |
| C | 23 | 1 | 0 | 2 | 3 | 0 | | 29 |
| D | 32 | 18 | 2 | 0 | 22 | 9 | | 83 |
| E | 122 | 0 | 3 | 28 | 0 | 5 | | 158 |
| F | 2 | 1 | 0 | 4 | 2 | 0 | | 9 |
| G | | | | | | | | |
| TOTAL | 194 | 32 | 19 | 74 | 107 | 17 | | 443 |

MODELLED — HGV

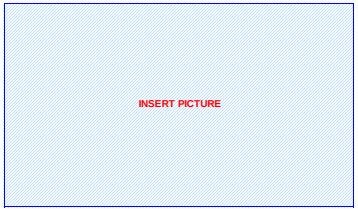
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 12 | 26 | 0 | | 41 |
| B | 3 | 0 | 0 | 2 | 0 | 0 | | 5 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 24 | 3 | 0 | 0 | 20 | 1 | | 48 |
| E | 41 | 0 | 0 | 15 | 0 | 6 | | 62 |
| F | 1 | 0 | 0 | 1 | 5 | 0 | | 7 |
| G | | | | | | | | |
| TOTAL | 73 | 4 | 2 | 30 | 51 | 7 | | 167 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | Heywood Old Road NE |
| B | 60074 | 2478 | 2478 | 60074 | Whittle Lane |
| C | 4730 | 2478 | 2478 | 4730 | Heywood Old Road SE |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 83 | 354 | | | | | 438 |
| B | 8 | 0 | 77 | | | | | 84 |
| C | 482 | 167 | 0 | | | | | 649 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 490 | 250 | 431 | | | | | 1171 |

*By Vehicle Type:*

MODELLED

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 283 | | | | | 356 |
| B | 6 | 0 | 54 | | | | | 61 |
| C | 382 | 128 | 0 | | | | | 509 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 388 | 200 | 337 | | | | | 926 |

MODELLED

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 35 | | | | | 46 |
| B | 1 | 0 | 22 | | | | | 24 |
| C | 76 | 39 | 0 | | | | | 116 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 78 | 50 | 58 | | | | | 185 |

MODELLED

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 34 | | | | | 34 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 0 | 34 | | | | | 58 |

MODELLED

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 466 | | | | | 490 |
| B | 20 | 0 | 96 | | | | | 117 |
| C | 318 | 94 | 0 | | | | | 412 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 339 | 117 | 563 | | | | | 1018 |

*By Vehicle Type:*

MODELLED

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 331 | | | | | 338 |
| B | 14 | 0 | 72 | | | | | 86 |
| C | 246 | 68 | 0 | | | | | 313 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 259 | 74 | 403 | | | | | 737 |

MODELLED

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 68 | | | | | 85 |
| B | 6 | 0 | 24 | | | | | 31 |
| C | 37 | 26 | 0 | | | | | 63 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 43 | 43 | 92 | | | | | 178 |

MODELLED

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 65 | | | | | 65 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 36 | 0 | 0 | | | | | 36 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 36 | 0 | 65 | | | | | 101 |

MODELLED

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.99 | | | | | 1.99 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 764 | | | | | 786 |
| B | 23 | 0 | 150 | | | | | 173 |
| C | 386 | 140 | 0 | | | | | 526 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 409 | 161 | 914 | | | | | 1484 |

*By Vehicle Type:*

MODELLED

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 652 | | | | | 672 |
| B | 22 | 0 | 137 | | | | | 159 |
| C | 340 | 130 | 0 | | | | | 470 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 363 | 149 | 789 | | | | | 1301 |

MODELLED

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 86 | | | | | 88 |
| B | 1 | 0 | 13 | | | | | 14 |
| C | 38 | 10 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 39 | 12 | 99 | | | | | 149 |

MODELLED

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 24 | | | | | 24 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 8 | 0 | 0 | | | | | 8 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 8 | 0 | 24 | | | | | 32 |

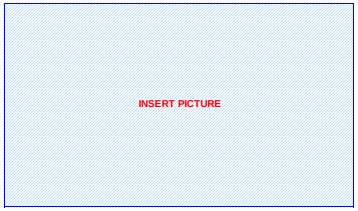
MODELLED

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.94 | | | | | 1.94 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Heywood Old Road / Langley Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | Heywood Old Road SB |
| B | 15238 | 4730 | 4730 | 15238 | Langley Lane |
| C | 2478 | 4730 | 4730 | 2478 | Heywood Old Road NB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 85 | 308 | | | | | 393 |
| B | 96 | 0 | 341 | | | | | 438 |
| C | 285 | 146 | 0 | | | | | 431 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 382 | 231 | 649 | | | | | 1262 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 72 | 235 | | | | | 307 |
| B | 88 | 0 | 274 | | | | | 362 |
| C | 223 | 114 | 0 | | | | | 337 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 311 | 186 | 509 | | | | | 1006 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 56 | | | | | 62 |
| B | 5 | 0 | 60 | | | | | 64 |
| C | 28 | 30 | 0 | | | | | 58 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 36 | 116 | | | | | 184 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 17 | | | | | 22 |
| B | 4 | 0 | 8 | | | | | 11 |
| C | 34 | 0 | 0 | | | | | 34 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 37 | 6 | 24 | | | | | 67 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 226 | | | | | 279 |
| B | 65 | 0 | 186 | | | | | 251 |
| C | 385 | 177 | 0 | | | | | 563 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 450 | 231 | 412 | | | | | 1093 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 159 | | | | | 204 |
| B | 53 | 0 | 154 | | | | | 207 |
| C | 266 | 138 | 0 | | | | | 403 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 319 | 183 | 313 | | | | | 814 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 32 | | | | | 36 |
| B | 6 | 0 | 31 | | | | | 37 |
| C | 60 | 32 | 0 | | | | | 92 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 66 | 37 | 63 | | | | | 165 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 35 | | | | | 37 |
| B | 4 | 0 | 1 | | | | | 5 |
| C | 60 | 5 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 64 | 8 | 36 | | | | | 108 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.98 | 0 | | | | | 5.98 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 276 | | | | | 351 |
| B | 67 | 0 | 249 | | | | | 316 |
| C | 616 | 298 | 0 | | | | | 914 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 683 | 372 | 526 | | | | | 1580 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 243 | | | | | 306 |
| B | 60 | 0 | 228 | | | | | 288 |
| C | 528 | 261 | 0 | | | | | 789 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 588 | 324 | 470 | | | | | 1383 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 26 | | | | | 34 |
| B | 4 | 0 | 21 | | | | | 25 |
| C | 66 | 33 | 0 | | | | | 99 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 69 | 42 | 47 | | | | | 158 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 8 | | | | | 9 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 23 | 1 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 2 | 8 | | | | | 33 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 3.92 | 0 | | | | | 5.9 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Langley Lane / A6046 Hollin Lane

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 146 | 708 | | | | | 853 |
| B | 127 | 0 | 71 | | | | | 198 |
| C | 689 | 8 | 0 | | | | | 697 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 815 | 154 | 779 | | | | | 1748 |

*By Vehicle Type:*

MODELLED

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 79 | 554 | | | | | 633 |
| B | 91 | 0 | 69 | | | | | 160 |
| C | 400 | 7 | 0 | | | | | 408 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 491 | 87 | 623 | | | | | 1201 |

MODELLED

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 90 | | | | | 149 |
| B | 31 | 0 | 1 | | | | | 32 |
| C | 147 | 1 | 0 | | | | | 148 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 178 | 59 | 91 | | | | | 329 |

MODELLED

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 44 | | | | | 52 |
| B | 1 | 0 | 1 | | | | | 2 |
| C | 112 | 0 | 0 | | | | | 112 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 112 | 8 | 45 | | | | | 165 |

MODELLED

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 20 | | | | | 20 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 0 | 20 | | | | | 53 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 117 | 810 | | | | | 927 |
| B | 108 | 0 | 8 | | | | | 116 |
| C | 583 | 15 | 0 | | | | | 598 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 692 | 132 | 818 | | | | | 1641 |

*By Vehicle Type:*

MODELLED

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 82 | 528 | | | | | 610 |
| B | 69 | 0 | 7 | | | | | 76 |
| C | 403 | 15 | 0 | | | | | 418 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 472 | 97 | 535 | | | | | 1104 |

MODELLED

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 133 | | | | | 164 |
| B | 31 | 0 | 0 | | | | | 31 |
| C | 89 | 1 | 0 | | | | | 89 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 120 | 32 | 133 | | | | | 285 |

MODELLED

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 130 | | | | | 130 |
| B | 5 | 0 | 0 | | | | | 5 |
| C | 67 | 0 | 0 | | | | | 68 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 1 | 130 | | | | | 203 |

MODELLED

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.79 | 2 | 19.97 | | | | | 49.76 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 185 | 836 | | | | | 1021 |
| B | 111 | 0 | 11 | | | | | 122 |
| C | 707 | 49 | 0 | | | | | 755 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 817 | 234 | 847 | | | | | 1898 |

*By Vehicle Type:*

MODELLED

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 162 | 706 | | | | | 868 |
| B | 79 | 0 | 10 | | | | | 89 |
| C | 563 | 48 | 0 | | | | | 610 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 642 | 210 | 716 | | | | | 1567 |

MODELLED

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 73 | | | | | 94 |
| B | 27 | 0 | 0 | | | | | 27 |
| C | 89 | 1 | 0 | | | | | 89 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 116 | 22 | 73 | | | | | 210 |

MODELLED

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 0 | 30 | | | | | 63 |

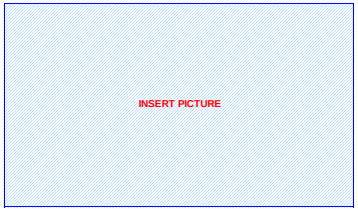
MODELLED

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 28 | | | | | 30 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.51 | 1.97 | 27.53 | | | | | 57.01 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Coronation Avenue




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 118 | 314 | | | | | 432 |
| B | 398 | 0 | 34 | | | | | 431 |
| C | 451 | 202 | 0 | | | | | 652 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 848 | 319 | 348 | | | | | 1515 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 232 | | | | | 232 |
| B | 264 | 0 | 21 | | | | | 285 |
| C | 399 | 141 | 0 | | | | | 540 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 663 | 141 | 253 | | | | | 1057 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 59 | | | | | 59 |
| B | 44 | 0 | 10 | | | | | 53 |
| C | 30 | 55 | 0 | | | | | 84 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 73 | 55 | 69 | | | | | 196 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 88 | 19 | | | | | 107 |
| B | 70 | 0 | 3 | | | | | 73 |
| C | 22 | 6 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 92 | 94 | 22 | | | | | 208 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 4 | | | | | 33 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 20 | 29 | 4 | | | | | 53 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 95 | 279 | | | | | 374 |
| B | 215 | 0 | 57 | | | | | 271 |
| C | 388 | 108 | 0 | | | | | 496 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 603 | 203 | 335 | | | | | 1141 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 193 | | | | | 193 |
| B | 80 | 0 | 8 | | | | | 87 |
| C | 265 | 73 | 0 | | | | | 338 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 344 | 73 | 201 | | | | | 618 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 47 | | | | | 47 |
| B | 12 | 0 | 40 | | | | | 52 |
| C | 83 | 27 | 0 | | | | | 109 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 27 | 87 | | | | | 209 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 33 | | | | | 104 |
| B | 103 | 0 | 9 | | | | | 112 |
| C | 39 | 8 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 142 | 79 | 41 | | | | | 262 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.89 | 23.83 | 5.96 | | | | | 51.68 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 337 | | | | | 387 |
| B | 396 | 0 | 18 | | | | | 415 |
| C | 511 | 99 | 0 | | | | | 610 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 907 | 149 | 356 | | | | | 1412 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 280 | | | | | 280 |
| B | 304 | 0 | 4 | | | | | 308 |
| C | 438 | 82 | 0 | | | | | 520 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 742 | 82 | 284 | | | | | 1108 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 35 | | | | | 35 |
| B | 34 | 0 | 13 | | | | | 48 |
| C | 44 | 15 | 0 | | | | | 59 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 78 | 15 | 48 | | | | | 142 |

MODELLED — HGV

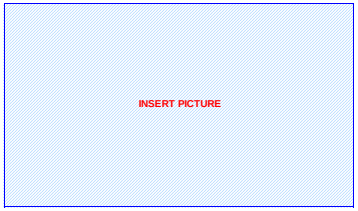
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 19 | | | | | 45 |
| B | 31 | 0 | 1 | | | | | 32 |
| C | 26 | 2 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 28 | 20 | | | | | 105 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 4 | | | | | 28 |
| B | 27 | 0 | 0 | | | | | 27 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.42 | 23.65 | 3.94 | | | | | 57.01 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / Hollins Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 365 | 485 | | | | | 850 |
| B | 216 | 0 | 48 | | | | | 265 |
| C | 701 | 64 | 0 | | | | | 765 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 917 | 430 | 533 | | | | | 1880 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 313 | 407 | | | | | 720 |
| B | 160 | 0 | 38 | | | | | 198 |
| C | 588 | 47 | 0 | | | | | 636 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 749 | 360 | 445 | | | | | 1554 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 55 | | | | | 99 |
| B | 37 | 0 | 4 | | | | | 42 |
| C | 69 | 10 | 0 | | | | | 78 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 106 | 54 | 59 | | | | | 219 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 23 | | | | | 27 |
| B | 15 | 0 | 0 | | | | | 15 |
| C | 44 | 2 | 0 | | | | | 46 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 58 | 6 | 24 | | | | | 88 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 172 | 506 | | | | | 678 |
| B | 175 | 0 | 44 | | | | | 220 |
| C | 531 | 57 | 0 | | | | | 588 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 706 | 229 | 550 | | | | | 1485 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 137 | 396 | | | | | 533 |
| B | 132 | 0 | 29 | | | | | 161 |
| C | 404 | 37 | 0 | | | | | 441 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 536 | 175 | 425 | | | | | 1136 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 64 | | | | | 90 |
| B | 27 | 0 | 9 | | | | | 36 |
| C | 76 | 13 | 0 | | | | | 89 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 103 | 38 | 73 | | | | | 214 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 46 | | | | | 53 |
| B | 12 | 0 | 1 | | | | | 13 |
| C | 51 | 1 | 0 | | | | | 52 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 63 | 8 | 46 | | | | | 117 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 4 | 7.97 | 5.99 | | | | | 17.96 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 301 | 559 | | | | | 860 |
| B | 151 | 0 | 38 | | | | | 190 |
| C | 626 | 55 | 0 | | | | | 681 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 777 | 356 | 597 | | | | | 1730 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 268 | 500 | | | | | 769 |
| B | 131 | 0 | 28 | | | | | 158 |
| C | 559 | 39 | 0 | | | | | 598 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 690 | 307 | 528 | | | | | 1525 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 45 | | | | | 72 |
| B | 12 | 0 | 5 | | | | | 16 |
| C | 47 | 10 | 0 | | | | | 57 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 58 | 37 | 50 | | | | | 145 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 13 | | | | | 15 |
| B | 7 | 0 | 0 | | | | | 7 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 27 | 2 | 14 | | | | | 43 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 9.86 | 5.94 | | | | | 17.78 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / A56 Manchester Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 603 | 620 | | | | | 1223 |
| B | 416 | 0 | 118 | | | | | 533 |
| C | 910 | 163 | 0 | | | | | 1072 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1326 | 765 | 737 | | | | | 2829 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 516 | 500 | | | | | 1016 |
| B | 351 | 0 | 94 | | | | | 445 |
| C | 802 | 120 | 0 | | | | | 922 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1153 | 636 | 594 | | | | | 2383 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 64 | | | | | 117 |
| B | 45 | 0 | 14 | | | | | 59 |
| C | 59 | 25 | 0 | | | | | 84 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 78 | 78 | | | | | 260 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 36 | | | | | 64 |
| B | 13 | 0 | 10 | | | | | 24 |
| C | 29 | 18 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 42 | 46 | 46 | | | | | 134 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 6 | 20 | | | | | 52 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 379 | 637 | | | | | 1016 |
| B | 349 | 0 | 201 | | | | | 550 |
| C | 696 | 208 | 0 | | | | | 904 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1045 | 588 | 837 | | | | | 2470 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 291 | 506 | | | | | 798 |
| B | 276 | 0 | 149 | | | | | 425 |
| C | 550 | 150 | 0 | | | | | 699 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 825 | 441 | 655 | | | | | 1922 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 57 | 75 | | | | | 132 |
| B | 46 | 0 | 27 | | | | | 73 |
| C | 88 | 32 | 0 | | | | | 120 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 135 | 89 | 102 | | | | | 325 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 35 | | | | | 61 |
| B | 21 | 0 | 25 | | | | | 46 |
| C | 36 | 27 | 0 | | | | | 62 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 52 | 60 | | | | | 169 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.9 | 5.98 | 19.94 | | | | | 53.82 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 515 | 694 | | | | | 1209 |
| B | 480 | 0 | 117 | | | | | 597 |
| C | 852 | 166 | 0 | | | | | 1018 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1332 | 681 | 811 | | | | | 2824 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 469 | 610 | | | | | 1078 |
| B | 426 | 0 | 102 | | | | | 528 |
| C | 754 | 129 | 0 | | | | | 883 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1180 | 598 | 712 | | | | | 2489 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 55 | | | | | 86 |
| B | 39 | 0 | 11 | | | | | 50 |
| C | 67 | 26 | 0 | | | | | 93 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 106 | 57 | 66 | | | | | 228 |

MODELLED — HGV

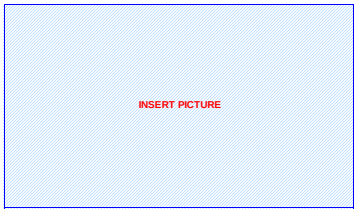
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 9 | | | | | 19 |
| B | 10 | 0 | 4 | | | | | 14 |
| C | 11 | 11 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 21 | 20 | 13 | | | | | 54 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 25.5 | 5.98 | 19.92 | | | | | 51.4 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 26859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1228 | 3271 | 830 | | | | 5329 |
| B | 581 | 34 | 1110 | 4244 | | | | 5969 |
| C | 2734 | 723 | 0 | 1985 | | | | 5442 |
| D | 1359 | 4884 | 2266 | 0 | | | | 8509 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4674 | 6869 | 6647 | 7059 | | | | 25249 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 882 | 2171 | 449 | | | | 3502 |
| B | 536 | 0 | 856 | 2162 | | | | 3554 |
| C | 1866 | 510 | 0 | 1220 | | | | 3596 |
| D | 712 | 2410 | 1335 | 0 | | | | 4457 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3114 | 3802 | 4362 | 3831 | | | | 15109 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 172 | 650 | 131 | | | | 953 |
| B | 42 | 2 | 97 | 709 | | | | 850 |
| C | 409 | 111 | 0 | 536 | | | | 1056 |
| D | 353 | 887 | 515 | 0 | | | | 1755 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 804 | 1172 | 1262 | 1376 | | | | 4614 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 174 | 450 | 250 | | | | 874 |
| B | 3 | 32 | 157 | 1373 | | | | 1565 |
| C | 459 | 102 | 0 | 229 | | | | 790 |
| D | 294 | 1587 | 416 | 0 | | | | 2297 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 756 | 1895 | 1023 | 1852 | | | | 5526 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 972 | 1825 | 980 | | | | 3777 |
| B | 505 | 65 | 509 | 4893 | | | | 5972 |
| C | 2392 | 179 | 0 | 1062 | | | | 3633 |
| D | 1269 | 5189 | 2076 | 0 | | | | 8534 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4166 | 6405 | 4410 | 6935 | | | | 21916 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 721 | 1119 | 399 | | | | 2239 |
| B | 492 | 0 | 378 | 2412 | | | | 3282 |
| C | 1575 | 101 | 0 | 512 | | | | 2188 |
| D | 491 | 2461 | 1110 | 0 | | | | 4062 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2558 | 3283 | 2607 | 3323 | | | | 11771 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 116 | 393 | 215 | | | | 724 |
| B | 13 | 1 | 78 | 969 | | | | 1061 |
| C | 403 | 35 | 0 | 292 | | | | 730 |
| D | 293 | 963 | 431 | 0 | | | | 1687 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 709 | 1115 | 902 | 1476 | | | | 4202 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 135 | 313 | 366 | | | | 814 |
| B | 0 | 64 | 53 | 1512 | | | | 1629 |
| C | 414 | 43 | 0 | 258 | | | | 715 |
| D | 485 | 1765 | 535 | 0 | | | | 2785 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 899 | 2007 | 901 | 2136 | | | | 5943 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1012 | 2480 | 1022 | | | | 4514 |
| B | 261 | 70 | 730 | 4974 | | | | 6035 |
| C | 3630 | 398 | 0 | 1005 | | | | 5033 |
| D | 1465 | 4905 | 2333 | 0 | | | | 8703 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5356 | 6385 | 5543 | 7001 | | | | 24285 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 911 | 2064 | 636 | | | | 3611 |
| B | 256 | 1 | 692 | 3308 | | | | 4257 |
| C | 2940 | 323 | 0 | 712 | | | | 3975 |
| D | 1016 | 3359 | 1680 | 0 | | | | 6055 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4212 | 4594 | 4436 | 4656 | | | | 17898 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 81 | 322 | 166 | | | | 569 |
| B | 5 | 2 | 26 | 694 | | | | 727 |
| C | 443 | 65 | 0 | 246 | | | | 754 |
| D | 233 | 666 | 385 | 0 | | | | 1284 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 681 | 814 | 733 | 1106 | | | | 3334 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 94 | 220 | | | | 334 |
| B | 0 | 67 | 12 | 972 | | | | 1051 |
| C | 247 | 10 | 0 | 47 | | | | 304 |
| D | 216 | 880 | 268 | 0 | | | | 1364 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 463 | 977 | 374 | 1239 | | | | 3053 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | JTC 20 - A627 SB |
| B | 2727 | 2724 | 2723 | 2725 | JTC 20 - M62 WB |
| C | 2768 | 4932 | 4929 | 2767 | JTC 20 - A627 NB |
| D | 2719 | 2721 | 2722 | 2720 | JTC 20 - M62 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 239 | 967 | 785 | | | | 1991 |
| B | 208 | 0 | 1027 | 4568 | | | | 5803 |
| C | 905 | 762 | 0 | 810 | | | | 2477 |
| D | 970 | 5134 | 1046 | 0 | | | | 7150 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2083 | 6135 | 3040 | 6163 | | | | 17421 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 173 | 750 | 477 | | | | 1400 |
| B | 177 | 0 | 730 | 2373 | | | | 3280 |
| C | 733 | 393 | 0 | 550 | | | | 1676 |
| D | 591 | 2645 | 723 | 0 | | | | 3959 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1501 | 3211 | 2203 | 3400 | | | | 10315 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 92 | 109 | | | | 227 |
| B | 25 | 0 | 142 | 716 | | | | 883 |
| C | 98 | 100 | 0 | 131 | | | | 329 |
| D | 136 | 871 | 181 | 0 | | | | 1188 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 259 | 997 | 415 | 956 | | | | 2627 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 125 | 199 | | | | 364 |
| B | 6 | 0 | 155 | 1479 | | | | 1640 |
| C | 74 | 269 | 0 | 129 | | | | 472 |
| D | 243 | 1618 | 142 | 0 | | | | 2003 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 323 | 1927 | 422 | 1807 | | | | 4479 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 129 | 803 | 654 | | | | 1586 |
| B | 243 | 0 | 941 | 4499 | | | | 5683 |
| C | 356 | 683 | 0 | 784 | | | | 1823 |
| D | 763 | 5190 | 744 | 0 | | | | 6697 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1362 | 6002 | 2488 | 5937 | | | | 15789 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 587 | 366 | | | | 1027 |
| B | 93 | 0 | 451 | 2345 | | | | 2889 |
| C | 184 | 319 | 0 | 543 | | | | 1046 |
| D | 547 | 2437 | 535 | 0 | | | | 3519 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 824 | 2830 | 1573 | 3254 | | | | 8481 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 100 | 129 | | | | 245 |
| B | 20 | 0 | 166 | 724 | | | | 910 |
| C | 102 | 104 | 0 | 174 | | | | 380 |
| D | 136 | 870 | 139 | 0 | | | | 1145 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 258 | 990 | 405 | 1027 | | | | 2680 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 116 | 159 | | | | 314 |
| B | 130 | 0 | 324 | 1430 | | | | 1884 |
| C | 70 | 260 | 0 | 67 | | | | 397 |
| D | 80 | 1883 | 70 | 0 | | | | 2033 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 280 | 2182 | 510 | 1656 | | | | 4628 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 216 | 909 | 1023 | | | | 2148 |
| B | 156 | 0 | 1066 | 4253 | | | | 5475 |
| C | 944 | 949 | 0 | 1016 | | | | 2909 |
| D | 631 | 5006 | 966 | 0 | | | | 6603 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1731 | 6171 | 2941 | 6292 | | | | 17135 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 165 | 683 | 707 | | | | 1555 |
| B | 104 | 0 | 850 | 2790 | | | | 3744 |
| C | 842 | 707 | 0 | 808 | | | | 2357 |
| D | 524 | 3477 | 848 | 0 | | | | 4849 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1470 | 4349 | 2381 | 4305 | | | | 12505 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 113 | 123 | | | | 260 |
| B | 12 | 0 | 83 | 520 | | | | 615 |
| C | 88 | 129 | 0 | 132 | | | | 349 |
| D | 82 | 643 | 85 | 0 | | | | 810 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 182 | 796 | 281 | 775 | | | | 2034 |

MODELLED — HGV

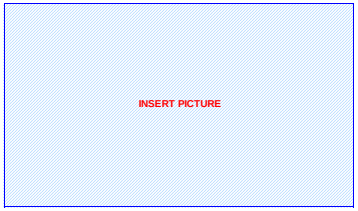
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 113 | 193 | | | | 333 |
| B | 40 | 0 | 133 | 943 | | | | 1116 |
| C | 14 | 113 | 0 | 76 | | | | 203 |
| D | 25 | 886 | 33 | 0 | | | | 944 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 79 | 1026 | 279 | 1212 | | | | 2596 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J19




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | *JTC 21 - M60 SB* |
| B | 14141 | 5666 | 5093 | 14141 | *JTC 21 - A576 WB* |
| C | 5668 | 5665 | 5667 | 5669 | *JTC 21 - M60 NB* |
| D | 3414 | 5096 | 5095 | 3414 | *JTC 21 - A576 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 545 | 0 | 972 | | | | 1517 |
| B | 514 | 0 | 288 | 394 | | | | 1196 |
| C | 0 | 269 | 23 | 508 | | | | 800 |
| D | 697 | 182 | 605 | 0 | | | | 1484 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1211 | 996 | 916 | 1874 | | | | 4997 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 409 | 0 | 812 | | | | 1221 |
| B | 367 | 0 | 205 | 343 | | | | 915 |
| C | 0 | 188 | 20 | 426 | | | | 634 |
| D | 552 | 165 | 524 | 0 | | | | 1241 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 919 | 762 | 749 | 1581 | | | | 4011 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 82 | 0 | 73 | | | | 155 |
| B | 73 | 0 | 63 | 49 | | | | 185 |
| C | 0 | 31 | 3 | 63 | | | | 97 |
| D | 59 | 15 | 63 | 0 | | | | 137 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 132 | 128 | 129 | 185 | | | | 574 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 0 | 87 | | | | 141 |
| B | 74 | 0 | 20 | 2 | | | | 96 |
| C | 0 | 50 | 0 | 19 | | | | 69 |
| D | 86 | 2 | 18 | 0 | | | | 106 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 160 | 106 | 38 | 108 | | | | 412 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 350 | 0 | 663 | | | | 1013 |
| B | 244 | 0 | 250 | 331 | | | | 825 |
| C | 0 | 315 | 4 | 499 | | | | 818 |
| D | 393 | 441 | 594 | 0 | | | | 1428 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 637 | 1106 | 848 | 1493 | | | | 4084 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 240 | 0 | 522 | | | | 762 |
| B | 178 | 0 | 149 | 293 | | | | 620 |
| C | 0 | 178 | 4 | 397 | | | | 579 |
| D | 292 | 391 | 469 | 0 | | | | 1152 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 470 | 809 | 622 | 1212 | | | | 3113 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 0 | 87 | | | | 163 |
| B | 37 | 0 | 40 | 33 | | | | 110 |
| C | 0 | 74 | 0 | 68 | | | | 142 |
| D | 58 | 41 | 88 | 0 | | | | 187 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 191 | 128 | 188 | | | | 602 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 0 | 54 | | | | 88 |
| B | 29 | 0 | 61 | 5 | | | | 95 |
| C | 0 | 63 | 0 | 34 | | | | 97 |
| D | 43 | 9 | 37 | 0 | | | | 89 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 106 | 98 | 93 | | | | 369 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 379 | 0 | 996 | | | | 1375 |
| B | 194 | 0 | 156 | 533 | | | | 883 |
| C | 9 | 437 | 10 | 536 | | | | 992 |
| D | 912 | 809 | 764 | 0 | | | | 2485 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1115 | 1625 | 930 | 2065 | | | | 5735 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 313 | 0 | 931 | | | | 1244 |
| B | 164 | 0 | 124 | 485 | | | | 773 |
| C | 7 | 360 | 10 | 487 | | | | 864 |
| D | 809 | 747 | 696 | 0 | | | | 2252 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 980 | 1420 | 830 | 1903 | | | | 5133 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 0 | 47 | | | | 91 |
| B | 19 | 0 | 26 | 45 | | | | 90 |
| C | 1 | 56 | 0 | 49 | | | | 106 |
| D | 89 | 61 | 62 | 0 | | | | 212 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 109 | 161 | 88 | 141 | | | | 499 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 0 | 18 | | | | 40 |
| B | 11 | 0 | 6 | 3 | | | | 20 |
| C | 1 | 21 | 0 | 0 | | | | 22 |
| D | 14 | 1 | 6 | 0 | | | | 21 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 44 | 12 | 21 | | | | 103 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A576 Middleton Road / A6045 Heywood Old Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 2 | 508 | | | | 541 |
| B | 65 | 0 | 3 | 690 | | | | 758 |
| C | 3 | 4 | 0 | 16 | | | | 23 |
| D | 306 | 698 | 9 | 0 | | | | 1013 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 374 | 733 | 14 | 1213 | | | | 2335 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 1 | 393 | | | | 419 |
| B | 47 | 0 | 1 | 509 | | | | 558 |
| C | 2 | 2 | 0 | 12 | | | | 16 |
| D | 241 | 514 | 7 | 0 | | | | 762 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 290 | 541 | 9 | 914 | | | | 1754 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | 86 | | | | 90 |
| B | 8 | 0 | 0 | 96 | | | | 104 |
| C | 1 | 1 | 0 | 3 | | | | 5 |
| D | 31 | 96 | 1 | 0 | | | | 128 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 39 | 100 | 2 | 185 | | | | 327 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 0 | 29 | | | | 32 |
| B | 11 | 0 | 2 | 66 | | | | 78 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 34 | 72 | 1 | 0 | | | | 107 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 45 | 76 | 3 | 96 | | | | 220 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 34 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 94 | 6 | 283 | | | | 383 |
| B | 98 | 0 | 5 | 554 | | | | 657 |
| C | 5 | 5 | 0 | 8 | | | | 18 |
| D | 444 | 672 | 9 | 0 | | | | 1125 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 548 | 771 | 20 | 845 | | | | 2184 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 79 | 4 | 210 | | | | 293 |
| B | 69 | 0 | 3 | 404 | | | | 476 |
| C | 3 | 3 | 0 | 6 | | | | 13 |
| D | 324 | 479 | 7 | 0 | | | | 809 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 396 | 561 | 14 | 620 | | | | 1591 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 1 | 37 | | | | 48 |
| B | 13 | 0 | 1 | 73 | | | | 87 |
| C | 1 | 1 | 0 | 1 | | | | 4 |
| D | 75 | 115 | 1 | 0 | | | | 192 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 89 | 126 | 4 | 111 | | | | 330 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 1 | 36 | | | | 42 |
| B | 17 | 0 | 1 | 58 | | | | 76 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 45 | 61 | 1 | 0 | | | | 106 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 63 | 66 | 2 | 95 | | | | 227 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.87 | 0 | 17.96 | | | | 35.83 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 81 | 2 | 314 | | | | 397 |
| B | 156 | 0 | 4 | 581 | | | | 741 |
| C | 5 | 5 | 0 | 5 | | | | 15 |
| D | 754 | 878 | 10 | 0 | | | | 1642 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 914 | 964 | 17 | 900 | | | | 2795 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 2 | 274 | | | | 349 |
| B | 143 | 0 | 4 | 497 | | | | 643 |
| C | 4 | 4 | 0 | 3 | | | | 11 |
| D | 662 | 750 | 8 | 0 | | | | 1420 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 808 | 828 | 14 | 774 | | | | 2424 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 0 | 33 | | | | 40 |
| B | 12 | 0 | 0 | 56 | | | | 68 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 74 | 87 | 1 | 0 | | | | 161 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 86 | 93 | 1 | 90 | | | | 271 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | 7 | | | | 8 |
| B | 1 | 0 | 0 | 13 | | | | 14 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 19 | 24 | 1 | 0 | | | | 44 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 20 | 26 | 1 | 21 | | | | 68 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 17 | 0 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.31 | 0 | 15.71 | | | | 33.02 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2032_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 79 | 910 | | | | | 989 |
| B | 0 | 0 | 1043 | | | | | 1043 |
| C | 1771 | 676 | 0 | | | | | 2447 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1771 | 756 | 1953 | | | | | 4479 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 685 | | | | | 746 |
| B | 0 | 0 | 786 | | | | | 786 |
| C | 1382 | 515 | 0 | | | | | 1897 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1382 | 576 | 1471 | | | | | 3428 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 93 | | | | | 105 |
| B | 0 | 0 | 185 | | | | | 185 |
| C | 152 | 106 | 0 | | | | | 259 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 152 | 119 | 278 | | | | | 549 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 103 | | | | | 110 |
| B | 0 | 0 | 71 | | | | | 71 |
| C | 205 | 55 | 0 | | | | | 260 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 205 | 61 | 175 | | | | | 441 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 29 | | | | | 29 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 31 | 0 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 0 | 29 | | | | | 60 |

### Model_2_Heywood_DS3a_2032_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 908 | | | | | 910 |
| B | 0 | 0 | 945 | | | | | 945 |
| C | 1424 | 589 | 0 | | | | | 2012 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1424 | 591 | 1853 | | | | | 3867 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 665 | | | | | 666 |
| B | 0 | 0 | 655 | | | | | 655 |
| C | 1048 | 386 | 0 | | | | | 1435 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1048 | 388 | 1319 | | | | | 2755 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 102 | | | | | 103 |
| B | 0 | 0 | 180 | | | | | 180 |
| C | 182 | 131 | 0 | | | | | 313 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 182 | 132 | 283 | | | | | 596 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 111 | | | | | 111 |
| B | 0 | 0 | 110 | | | | | 110 |
| C | 162 | 71 | 0 | | | | | 233 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 162 | 71 | 221 | | | | | 454 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.66 | 0 | 29.71 | | | | | 61.37 |

### Model_3_Heywood_DS3a_2032_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 1030 | | | | | 1034 |
| B | 0 | 0 | 1039 | | | | | 1039 |
| C | 1663 | 718 | 0 | | | | | 2381 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1663 | 723 | 2069 | | | | | 4455 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 931 | | | | | 933 |
| B | 0 | 0 | 940 | | | | | 940 |
| C | 1477 | 609 | 0 | | | | | 2086 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1477 | 611 | 1871 | | | | | 3959 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 52 | | | | | 53 |
| B | 0 | 0 | 79 | | | | | 79 |
| C | 116 | 79 | 0 | | | | | 195 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 116 | 80 | 131 | | | | | 327 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 20 | | | | | 21 |
| B | 0 | 0 | 20 | | | | | 20 |
| C | 41 | 31 | 0 | | | | | 72 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 41 | 32 | 40 | | | | | 113 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.86 | 0 | 27.25 | | | | | 56.11 |

# Run 10 - 2039 Do Minimum - Origin-Destination Matrices

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60057 | 60011 | 4924 | 2718 | C1-M62 WC1-M62 West |
| E | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizabe |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 225 | 243 | 516 | 33 | | | 1017 |
| B | 228 | 0 | 175 | 0 | 521 | | | 924 |
| C | 228 | 303 | 0 | 278 | 111 | | | 920 |
| D | 239 | 0 | 90 | 2 | 217 | | | 548 |
| E | 2 | 362 | 127 | 221 | 0 | | | 712 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 697 | 890 | 635 | 1017 | 882 | | | 4121 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 146 | 173 | 365 | 31 | | | 715 |
| B | 144 | 0 | 66 | 0 | 313 | | | 523 |
| C | 178 | 211 | 0 | 221 | 94 | | | 704 |
| D | 140 | 0 | 63 | 0 | 121 | | | 324 |
| E | 1 | 190 | 77 | 166 | 0 | | | 434 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 463 | 547 | 379 | 752 | 559 | | | 2700 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 62 | 54 | 2 | | | 176 |
| B | 40 | 0 | 70 | 0 | 76 | | | 186 |
| C | 45 | 28 | 0 | 50 | 14 | | | 137 |
| D | 58 | 0 | 10 | 1 | 29 | | | 98 |
| E | 1 | 31 | 15 | 30 | 0 | | | 77 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 144 | 117 | 157 | 135 | 121 | | | 674 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 8 | 97 | 0 | | | 126 |
| B | 44 | 0 | 39 | 0 | 132 | | | 215 |
| C | 5 | 64 | 0 | 7 | 3 | | | 79 |
| D | 41 | 0 | 17 | 1 | 67 | | | 126 |
| E | 0 | 141 | 35 | 25 | 0 | | | 201 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 90 | 226 | 99 | 130 | 202 | | | 747 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 246 | 266 | 287 | 2 | | | 801 |
| B | 160 | 0 | 126 | 0 | 220 | | | 506 |
| C | 183 | 281 | 0 | 279 | 81 | | | 824 |
| D | 214 | 0 | 91 | 8 | 288 | | | 601 |
| E | 12 | 247 | 90 | 91 | 0 | | | 440 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 569 | 774 | 573 | 665 | 591 | | | 3172 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 160 | 218 | 163 | 1 | | | 542 |
| B | 84 | 0 | 90 | 0 | 107 | | | 281 |
| C | 135 | 179 | 0 | 164 | 63 | | | 541 |
| D | 90 | 0 | 63 | 0 | 47 | | | 200 |
| E | 6 | 102 | 49 | 26 | 0 | | | 183 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 315 | 441 | 420 | 353 | 218 | | | 1747 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 35 | 64 | 1 | | | 154 |
| B | 40 | 0 | 26 | 0 | 23 | | | 89 |
| C | 33 | 37 | 0 | 71 | 9 | | | 150 |
| D | 53 | 0 | 22 | 1 | 42 | | | 118 |
| E | 5 | 28 | 15 | 11 | 0 | | | 59 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 131 | 119 | 98 | 147 | 75 | | | 570 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 13 | 60 | 0 | | | 105 |
| B | 36 | 0 | 10 | 0 | 90 | | | 136 |
| C | 15 | 65 | 0 | 44 | 9 | | | 133 |
| D | 71 | 0 | 6 | 7 | 199 | | | 283 |
| E | 1 | 117 | 26 | 54 | 0 | | | 198 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 123 | 214 | 55 | 165 | 298 | | | 855 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 235 | 299 | 312 | 4 | | | 850 |
| B | 219 | 0 | 160 | 0 | 361 | | | 740 |
| C | 250 | 262 | 0 | 250 | 66 | | | 828 |
| D | 269 | 0 | 204 | 0 | 320 | | | 793 |
| E | 13 | 286 | 81 | 79 | 0 | | | 459 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 751 | 783 | 744 | 641 | 751 | | | 3670 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 182 | 264 | 276 | 2 | | | 724 |
| B | 160 | 0 | 124 | 0 | 239 | | | 523 |
| C | 228 | 219 | 0 | 183 | 60 | | | 690 |
| D | 209 | 0 | 160 | 0 | 210 | | | 579 |
| E | 11 | 197 | 67 | 46 | 0 | | | 321 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 608 | 598 | 615 | 505 | 511 | | | 2837 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 30 | 19 | 2 | | | 89 |
| B | 35 | 0 | 28 | 0 | 31 | | | 94 |
| C | 20 | 34 | 0 | 40 | 5 | | | 99 |
| D | 32 | 0 | 33 | 0 | 24 | | | 89 |
| E | 2 | 24 | 6 | 4 | 0 | | | 36 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 89 | 96 | 97 | 63 | 62 | | | 407 |

MODELLED — HGV

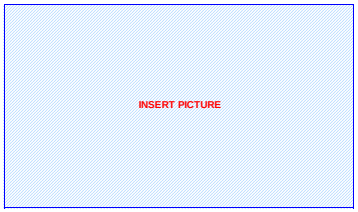
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 5 | 17 | 0 | | | 37 |
| B | 24 | 0 | 8 | 0 | 91 | | | 123 |
| C | 2 | 9 | 0 | 27 | 1 | | | 39 |
| D | 28 | 0 | 11 | 0 | 86 | | | 125 |
| E | 0 | 65 | 8 | 29 | 0 | | | 102 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 89 | 32 | 73 | 178 | | | 426 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | *045 Manchester Road* |
| B | 60003 | 60010 | 60010 | 60003 | *M Queen Elizabeth Wa* |
| C | 2814 | 60010 | 60010 | 2814 | *045 Manchester Road* |
| D | 60008 | 60010 | 60010 | 60008 | *M Queen Elizabeth Wa* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 219 | 230 | 79 | | | | 529 |
| B | 138 | 0 | 124 | 621 | | | | 883 |
| C | 357 | 78 | 0 | 96 | | | | 531 |
| D | 94 | 416 | 52 | 0 | | | | 561 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 589 | 713 | 405 | 796 | | | | 2503 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 174 | 175 | 61 | | | | 411 |
| B | 105 | 0 | 87 | 367 | | | | 559 |
| C | 305 | 59 | 0 | 58 | | | | 421 |
| D | 72 | 201 | 22 | 0 | | | | 295 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 482 | 434 | 284 | 486 | | | | 1686 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 32 | 17 | | | | 85 |
| B | 16 | 0 | 31 | 74 | | | | 121 |
| C | 31 | 12 | 0 | 9 | | | | 52 |
| D | 16 | 29 | 4 | 0 | | | | 48 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 63 | 77 | 66 | 100 | | | | 306 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 21 | 1 | | | | 31 |
| B | 16 | 0 | 6 | 180 | | | | 202 |
| C | 22 | 7 | 0 | 29 | | | | 58 |
| D | 6 | 186 | 26 | 0 | | | | 218 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 44 | 202 | 53 | 211 | | | | 509 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 228 | 71 | | | | 341 |
| B | 99 | 0 | 51 | 440 | | | | 591 |
| C | 357 | 95 | 0 | 73 | | | | 525 |
| D | 69 | 305 | 49 | 0 | | | | 424 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 526 | 441 | 328 | 584 | | | | 1880 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 166 | 53 | | | | 244 |
| B | 76 | 0 | 38 | 104 | | | | 217 |
| C | 261 | 51 | 0 | 39 | | | | 351 |
| D | 49 | 108 | 29 | 0 | | | | 185 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 385 | 183 | 234 | 195 | | | | 997 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 30 | 17 | | | | 54 |
| B | 11 | 0 | 11 | 53 | | | | 75 |
| C | 51 | 15 | 0 | 16 | | | | 82 |
| D | 18 | 37 | 9 | 0 | | | | 64 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 59 | 50 | 86 | | | | 275 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 30 | 1 | | | | 41 |
| B | 12 | 0 | 2 | 284 | | | | 299 |
| C | 43 | 28 | 0 | 18 | | | | 90 |
| D | 3 | 161 | 11 | 0 | | | | 174 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 58 | 199 | 43 | 304 | | | | 604 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 297 | 53 | | | | 387 |
| B | 134 | 0 | 124 | 492 | | | | 750 |
| C | 484 | 174 | 0 | 61 | | | | 720 |
| D | 117 | 247 | 81 | 0 | | | | 445 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 735 | 458 | 502 | 607 | | | | 2302 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 258 | 36 | | | | 318 |
| B | 113 | 0 | 108 | 291 | | | | 512 |
| C | 413 | 146 | 0 | 45 | | | | 604 |
| D | 99 | 151 | 67 | 0 | | | | 316 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 625 | 322 | 433 | 371 | | | | 1750 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 31 | 16 | | | | 50 |
| B | 14 | 0 | 13 | 34 | | | | 61 |
| C | 51 | 19 | 0 | 9 | | | | 80 |
| D | 11 | 13 | 10 | 0 | | | | 33 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 76 | 35 | 54 | 59 | | | | 224 |

MODELLED — HGV

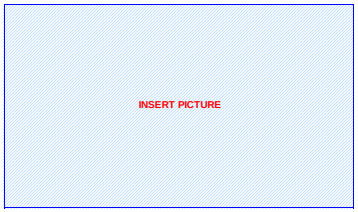
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 6 | 2 | | | | 17 |
| B | 6 | 0 | 4 | 167 | | | | 177 |
| C | 18 | 9 | 0 | 7 | | | | 34 |
| D | 8 | 84 | 4 | 0 | | | | 96 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 102 | 14 | 176 | | | | 323 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.94 | 0 | 1.97 | 0 | | | | 3.91 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Hill Top Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | *Harehills Rd EB* |
| B | 60036 | 60031 | 60031 | 60036 | *Hill Top Road* |
| C | 60230 | 7454 | 7454 | 60230 | *Harehills Rd SB* |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 122 | 365 | 47 | | | | 534 |
| B | 70 | 0 | 30 | 2 | | | | 102 |
| C | 619 | 68 | 0 | 157 | | | | 844 |
| D | 29 | 0 | 69 | 0 | | | | 98 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 718 | 190 | 464 | 206 | | | | 1578 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 196 | 37 | | | | 293 |
| B | 9 | 0 | 3 | 0 | | | | 12 |
| C | 427 | 42 | 0 | 63 | | | | 532 |
| D | 12 | 0 | 4 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 448 | 102 | 203 | 100 | | | | 853 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 37 | 6 | | | | 52 |
| B | 4 | 0 | 4 | 1 | | | | 9 |
| C | 77 | 5 | 0 | 19 | | | | 101 |
| D | 13 | 0 | 2 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 14 | 43 | 26 | | | | 177 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 132 | 4 | | | | 189 |
| B | 57 | 0 | 23 | 1 | | | | 81 |
| C | 115 | 21 | 0 | 75 | | | | 211 |
| D | 4 | 0 | 63 | 0 | | | | 67 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 176 | 74 | 218 | 80 | | | | 548 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 273 | 26 | | | | 373 |
| B | 81 | 0 | 51 | 1 | | | | 133 |
| C | 415 | 48 | 0 | 112 | | | | 575 |
| D | 58 | 2 | 93 | 0 | | | | 153 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 554 | 124 | 417 | 139 | | | | 1234 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 147 | 21 | | | | 191 |
| B | 26 | 0 | 17 | 0 | | | | 43 |
| C | 159 | 8 | 0 | 19 | | | | 186 |
| D | 33 | 1 | 16 | 0 | | | | 50 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 218 | 32 | 180 | 40 | | | | 470 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 39 | 4 | | | | 53 |
| B | 13 | 0 | 9 | 1 | | | | 23 |
| C | 55 | 8 | 0 | 22 | | | | 85 |
| D | 14 | 1 | 15 | 0 | | | | 30 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 82 | 19 | 63 | 27 | | | | 191 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 87 | 1 | | | | 129 |
| B | 42 | 0 | 25 | 0 | | | | 67 |
| C | 201 | 32 | 0 | 71 | | | | 304 |
| D | 11 | 0 | 62 | 0 | | | | 73 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 254 | 73 | 174 | 72 | | | | 573 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 49 | 310 | 12 | | | | 371 |
| B | 80 | 0 | 68 | 0 | | | | 148 |
| C | 457 | 25 | 0 | 52 | | | | 534 |
| D | 89 | 0 | 109 | 0 | | | | 198 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 626 | 74 | 487 | 64 | | | | 1251 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 248 | 11 | | | | 278 |
| B | 57 | 0 | 43 | 0 | | | | 100 |
| C | 281 | 12 | 0 | 10 | | | | 303 |
| D | 80 | 0 | 62 | 0 | | | | 142 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 418 | 31 | 353 | 21 | | | | 823 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 25 | 1 | | | | 28 |
| B | 3 | 0 | 9 | 0 | | | | 12 |
| C | 50 | 1 | 0 | 4 | | | | 55 |
| D | 8 | 0 | 5 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 61 | 3 | 39 | 5 | | | | 108 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 37 | 0 | | | | 65 |
| B | 20 | 0 | 16 | 0 | | | | 36 |
| C | 126 | 12 | 0 | 38 | | | | 176 |
| D | 1 | 0 | 42 | 0 | | | | 43 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 147 | 40 | 95 | 38 | | | | 320 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Pilsworth Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 244 | 260 | | | | | 504 |
| B | 335 | 0 | 274 | | | | | 609 |
| C | 465 | 252 | 0 | | | | | 718 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 800 | 496 | 534 | | | | | 1831 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 172 | 86 | | | | | 258 |
| B | 268 | 0 | 207 | | | | | 475 |
| C | 270 | 179 | 0 | | | | | 448 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 538 | 350 | 293 | | | | | 1181 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 13 | | | | | 57 |
| B | 40 | 0 | 40 | | | | | 79 |
| C | 52 | 42 | 0 | | | | | 94 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 91 | 86 | 52 | | | | | 230 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 162 | | | | | 190 |
| B | 27 | 0 | 27 | | | | | 54 |
| C | 144 | 32 | 0 | | | | | 176 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 172 | 60 | 189 | | | | | 420 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 263 | 225 | | | | | 488 |
| B | 205 | 0 | 149 | | | | | 355 |
| C | 363 | 190 | 0 | | | | | 553 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 569 | 453 | 374 | | | | | 1396 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 177 | 93 | | | | | 270 |
| B | 143 | 0 | 98 | | | | | 242 |
| C | 102 | 116 | 0 | | | | | 218 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 245 | 293 | 191 | | | | | 729 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 27 | | | | | 68 |
| B | 29 | 0 | 27 | | | | | 56 |
| C | 45 | 37 | 0 | | | | | 82 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 78 | 54 | | | | | 206 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 106 | | | | | 150 |
| B | 33 | 0 | 24 | | | | | 57 |
| C | 217 | 37 | 0 | | | | | 254 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 249 | 82 | 130 | | | | | 461 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 352 | 210 | | | | | 562 |
| B | 227 | 0 | 161 | | | | | 388 |
| C | 336 | 290 | 0 | | | | | 626 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 563 | 642 | 371 | | | | | 1577 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 316 | 147 | | | | | 463 |
| B | 194 | 0 | 131 | | | | | 325 |
| C | 168 | 250 | 0 | | | | | 418 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 363 | 566 | 278 | | | | | 1207 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 7 | | | | | 32 |
| B | 11 | 0 | 20 | | | | | 31 |
| C | 30 | 30 | 0 | | | | | 60 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 41 | 55 | 27 | | | | | 123 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 55 | | | | | 67 |
| B | 22 | 0 | 10 | | | | | 33 |
| C | 138 | 10 | 0 | | | | | 148 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 160 | 21 | 66 | | | | | 247 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / A58 Bury St

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 515 | 167 | | | | | 683 |
| B | 639 | 0 | 347 | | | | | 987 |
| C | 208 | 309 | 0 | | | | | 517 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 848 | 824 | 514 | | | | | 2186 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 362 | 138 | | | | | 501 |
| B | 419 | 0 | 254 | | | | | 673 |
| C | 141 | 247 | 0 | | | | | 387 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 559 | 609 | 393 | | | | | 1561 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 100 | 21 | | | | | 120 |
| B | 127 | 0 | 34 | | | | | 161 |
| C | 55 | 25 | 0 | | | | | 80 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 183 | 124 | 54 | | | | | 362 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 9 | | | | | 52 |
| B | 83 | 0 | 39 | | | | | 123 |
| C | 12 | 19 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 63 | 48 | | | | | 206 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 29 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 28 | 20 | | | | | 57 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 514 | 102 | | | | | 616 |
| B | 506 | 0 | 260 | | | | | 766 |
| C | 144 | 289 | 0 | | | | | 433 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 650 | 803 | 363 | | | | | 1816 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 360 | 79 | | | | | 439 |
| B | 347 | 0 | 180 | | | | | 527 |
| C | 111 | 191 | 0 | | | | | 302 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 458 | 551 | 259 | | | | | 1268 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 17 | | | | | 95 |
| B | 90 | 0 | 32 | | | | | 123 |
| C | 22 | 34 | 0 | | | | | 56 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 112 | 112 | 50 | | | | | 273 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 66 | 6 | | | | | 73 |
| B | 59 | 0 | 28 | | | | | 87 |
| C | 11 | 46 | 0 | | | | | 57 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 70 | 112 | 34 | | | | | 217 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.9 | 27.87 | 19.8 | | | | | 57.57 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 530 | 109 | | | | | 639 |
| B | 581 | 0 | 313 | | | | | 895 |
| C | 203 | 311 | 0 | | | | | 513 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 784 | 840 | 422 | | | | | 2047 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 473 | 96 | | | | | 569 |
| B | 499 | 0 | 257 | | | | | 756 |
| C | 182 | 266 | 0 | | | | | 448 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 681 | 740 | 352 | | | | | 1773 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 12 | | | | | 52 |
| B | 60 | 0 | 25 | | | | | 85 |
| C | 18 | 23 | 0 | | | | | 41 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 77 | 64 | 37 | | | | | 178 |

MODELLED — HGV — To Arm / From Arm

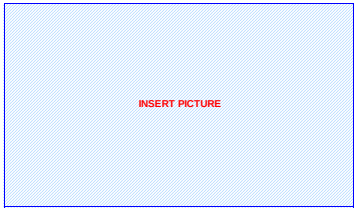
| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 2 | | | | | 10 |
| B | 15 | 0 | 12 | | | | | 26 |
| C | 4 | 3 | 0 | | | | | 7 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 18 | 12 | 14 | | | | | 43 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 20 | | | | | 27 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.83 | 25.71 | 19.59 | | | | | 53.13 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Pilsworth Road / Heywood Distribution Centre**




***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | *Pilsworth Rd NB* |
| B | 20430 | 7459 | 7459 | 20430 | *ywood Distribution Cer* |
| C | 2813 | 7459 | 7459 | 2813 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 264 | 311 | | | | | 576 |
| B | 132 | 0 | 193 | | | | | 325 |
| C | 533 | 268 | 0 | | | | | 800 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 665 | 532 | 504 | | | | | 1701 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 148 | 212 | | | | | 360 |
| B | 25 | 0 | 46 | | | | | 71 |
| C | 387 | 151 | 0 | | | | | 538 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 412 | 299 | 258 | | | | | 969 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 19 | | | | | 33 |
| B | 8 | 0 | 37 | | | | | 45 |
| C | 60 | 31 | 0 | | | | | 91 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 45 | 57 | | | | | 170 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 102 | 80 | | | | | 183 |
| B | 99 | 0 | 110 | | | | | 209 |
| C | 86 | 86 | 0 | | | | | 171 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 185 | 188 | 190 | | | | | 563 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 120 | 299 | | | | | 419 |
| B | 223 | 0 | 189 | | | | | 411 |
| C | 295 | 273 | 0 | | | | | 569 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 518 | 393 | 488 | | | | | 1399 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 68 | 191 | | | | | 260 |
| B | 93 | 0 | 79 | | | | | 172 |
| C | 177 | 68 | 0 | | | | | 245 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 270 | 137 | 270 | | | | | 676 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 40 | | | | | 63 |
| B | 33 | 0 | 28 | | | | | 61 |
| C | 40 | 34 | 0 | | | | | 74 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 73 | 57 | 68 | | | | | 198 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 68 | | | | | 96 |
| B | 96 | 0 | 82 | | | | | 179 |
| C | 78 | 171 | 0 | | | | | 249 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 175 | 200 | 150 | | | | | 525 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 415 | | | | | 467 |
| B | 210 | 0 | 147 | | | | | 357 |
| C | 403 | 161 | 0 | | | | | 563 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 613 | 212 | 562 | | | | | 1387 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 353 | | | | | 384 |
| B | 163 | 0 | 110 | | | | | 274 |
| C | 309 | 53 | 0 | | | | | 363 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 473 | 84 | 463 | | | | | 1020 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 26 | | | | | 30 |
| B | 15 | 0 | 6 | | | | | 21 |
| C | 27 | 14 | 0 | | | | | 41 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 42 | 18 | 32 | | | | | 92 |

HGV

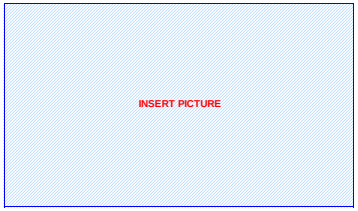
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 36 | | | | | 53 |
| B | 32 | 0 | 31 | | | | | 63 |
| C | 66 | 94 | 0 | | | | | 160 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 98 | 110 | 67 | | | | | 275 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / JPA1.1 & SHDA employment




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | *Pilsworth Rd SB* |
| B | 60027 | 60229 | 60229 | 60027 | *SHDA* |
| C | 60024 | 60229 | 60229 | 60024 | *Pilsworth Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 646 | | | | | 665 |
| B | 13 | 0 | 14 | | | | | 27 |
| C | 563 | 31 | 0 | | | | | 594 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 576 | 51 | 660 | | | | | 1286 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 404 | | | | | 412 |
| B | 3 | 0 | 3 | | | | | 6 |
| C | 357 | 14 | 0 | | | | | 371 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 360 | 22 | 407 | | | | | 789 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 66 | | | | | 68 |
| B | 1 | 0 | 2 | | | | | 4 |
| C | 32 | 3 | 0 | | | | | 35 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 6 | 68 | | | | | 107 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 176 | | | | | 185 |
| B | 9 | 0 | 9 | | | | | 18 |
| C | 174 | 14 | 0 | | | | | 188 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 183 | 23 | 185 | | | | | 391 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 505 | | | | | 518 |
| B | 18 | 0 | 24 | | | | | 42 |
| C | 401 | 26 | 0 | | | | | 427 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 419 | 39 | 530 | | | | | 987 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 265 | | | | | 270 |
| B | 5 | 0 | 8 | | | | | 13 |
| C | 255 | 7 | 0 | | | | | 261 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 259 | 11 | 273 | | | | | 544 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 71 | | | | | 73 |
| B | 3 | 0 | 4 | | | | | 7 |
| C | 60 | 5 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 63 | 7 | 75 | | | | | 145 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 169 | | | | | 175 |
| B | 10 | 0 | 12 | | | | | 22 |
| C | 87 | 15 | 0 | | | | | 101 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 20 | 181 | | | | | 298 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 606 | | | | | 613 |
| B | 16 | 0 | 25 | | | | | 42 |
| C | 450 | 11 | 0 | | | | | 461 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 467 | 18 | 631 | | | | | 1116 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 471 | | | | | 473 |
| B | 9 | 0 | 17 | | | | | 26 |
| C | 374 | 3 | 0 | | | | | 377 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 384 | 5 | 487 | | | | | 876 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 41 | | | | | 42 |
| B | 1 | 0 | 2 | | | | | 3 |
| C | 30 | 1 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 1 | 43 | | | | | 75 |

MODELLED — HGV

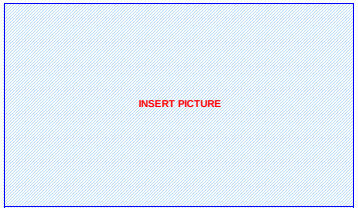
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 94 | | | | | 98 |
| B | 6 | 0 | 7 | | | | | 13 |
| C | 47 | 7 | 0 | | | | | 54 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 12 | 101 | | | | | 165 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** 3 Arrows (Pilsworth Road / Moss Hall Road - South)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 598 | | | | | 660 |
| B | 86 | 0 | 206 | | | | | 292 |
| C | 508 | 98 | 0 | | | | | 607 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 594 | 161 | 804 | | | | | 1559 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 365 | | | | | 407 |
| B | 55 | 0 | 151 | | | | | 206 |
| C | 316 | 63 | 0 | | | | | 379 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 371 | 105 | 516 | | | | | 992 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 62 | | | | | 68 |
| B | 6 | 0 | 37 | | | | | 43 |
| C | 29 | 16 | 0 | | | | | 45 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 35 | 23 | 99 | | | | | 157 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 171 | | | | | 185 |
| B | 24 | 0 | 18 | | | | | 42 |
| C | 164 | 19 | 0 | | | | | 183 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 188 | 33 | 189 | | | | | 410 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 55 | 475 | | | | | 530 |
| B | 51 | 0 | 167 | | | | | 218 |
| C | 376 | 131 | 0 | | | | | 507 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 427 | 186 | 641 | | | | | 1255 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 242 | | | | | 273 |
| B | 25 | 0 | 109 | | | | | 134 |
| C | 237 | 68 | 0 | | | | | 305 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 261 | 99 | 352 | | | | | 711 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 63 | | | | | 75 |
| B | 10 | 0 | 21 | | | | | 30 |
| C | 55 | 16 | 0 | | | | | 71 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 65 | 28 | 84 | | | | | 177 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 169 | | | | | 181 |
| B | 17 | 0 | 37 | | | | | 54 |
| C | 84 | 48 | 0 | | | | | 132 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 101 | 60 | 206 | | | | | 367 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 586 | | | | | 631 |
| B | 54 | 0 | 196 | | | | | 250 |
| C | 407 | 145 | 0 | | | | | 552 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 461 | 190 | 782 | | | | | 1434 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 460 | | | | | 487 |
| B | 47 | 0 | 174 | | | | | 221 |
| C | 330 | 104 | 0 | | | | | 434 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 377 | 132 | 633 | | | | | 1142 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 39 | | | | | 43 |
| B | 3 | 0 | 12 | | | | | 15 |
| C | 28 | 15 | 0 | | | | | 43 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 19 | 52 | | | | | 101 |

HGV

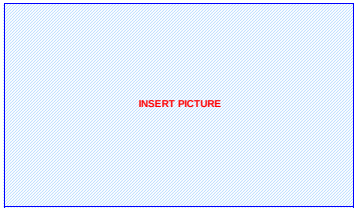
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 87 | | | | | 101 |
| B | 4 | 0 | 10 | | | | | 14 |
| C | 50 | 25 | 0 | | | | | 76 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 39 | 97 | | | | | 190 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Fowler Welch (Pilsworth Road / Moss Hall Road - North)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7460 | 2038 | 2038 | 7460 | Moss Hall Rd NB |
| B | 60213 | 2038 | 2038 | 60213 | Pilsworth Road |
| C | 60228 | 2038 | 2038 | 60228 | Moss Hall Rd SB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 732 | 72 | | | | | 804 |
| B | 426 | 0 | 90 | | | | | 516 |
| C | 195 | 73 | 0 | | | | | 267 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 621 | 805 | 162 | | | | | 1588 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 480 | 29 | | | | | 509 |
| B | 227 | 0 | 62 | | | | | 289 |
| C | 155 | 50 | 0 | | | | | 205 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 382 | 529 | 91 | | | | | 1003 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 37 | | | | | 97 |
| B | 28 | 0 | 15 | | | | | 43 |
| C | 22 | 16 | 0 | | | | | 38 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 76 | 52 | | | | | 177 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 192 | 5 | | | | | 198 |
| B | 171 | 0 | 14 | | | | | 185 |
| C | 17 | 7 | 0 | | | | | 25 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 189 | 200 | 19 | | | | | 407 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 491 | 163 | | | | | 654 |
| B | 392 | 0 | 73 | | | | | 465 |
| C | 125 | 55 | 0 | | | | | 180 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 517 | 546 | 236 | | | | | 1299 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 227 | 127 | | | | | 353 |
| B | 215 | 0 | 55 | | | | | 269 |
| C | 88 | 44 | 0 | | | | | 132 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 303 | 270 | 182 | | | | | 755 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 23 | | | | | 83 |
| B | 53 | 0 | 12 | | | | | 64 |
| C | 18 | 8 | 0 | | | | | 26 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 70 | 69 | 35 | | | | | 174 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 204 | 13 | | | | | 217 |
| B | 125 | 0 | 7 | | | | | 131 |
| C | 19 | 3 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 144 | 207 | 20 | | | | | 371 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 558 | 220 | | | | | 778 |
| B | 358 | 0 | 150 | | | | | 508 |
| C | 205 | 41 | 0 | | | | | 245 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 563 | 599 | 370 | | | | | 1532 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 435 | 196 | | | | | 631 |
| B | 268 | 0 | 129 | | | | | 397 |
| C | 172 | 36 | 0 | | | | | 209 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 440 | 471 | 325 | | | | | 1236 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 15 | | | | | 53 |
| B | 25 | 0 | 19 | | | | | 44 |
| C | 17 | 4 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 42 | 43 | 34 | | | | | 119 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 85 | 9 | | | | | 94 |
| B | 66 | 0 | 2 | | | | | 68 |
| C | 15 | 0 | 0 | | | | | 15 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 80 | 85 | 11 | | | | | 176 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | *TC 11 - Pilsworth Rd E* |
| B | 3001 | 60238 | 60239 | 3000 | *JTC 11 - M66 SB Off* |
| C | 60213 | 60000 | 60000 | 60213 | *TC 11 - Pilsworth Rd W* |
| D | 60236 | 4918 | 60240 | 2998 | *JTC 11 - M66 NB Off* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 358 | 208 | 346 | | | | 912 |
| B | 466 | 0 | 0 | 0 | | | | 466 |
| C | 318 | 192 | 0 | 294 | | | | 804 |
| D | 628 | 0 | 306 | 0 | | | | 934 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1412 | 550 | 514 | 640 | | | | 3116 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 252 | 168 | 247 | | | | 667 |
| B | 381 | 0 | 0 | 0 | | | | 381 |
| C | 260 | 155 | 0 | 114 | | | | 529 |
| D | 510 | 0 | 120 | 0 | | | | 630 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1151 | 407 | 288 | 361 | | | | 2207 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 14 | 80 | | | | 152 |
| B | 52 | 0 | 0 | 0 | | | | 52 |
| C | 37 | 9 | 0 | 30 | | | | 76 |
| D | 68 | 0 | 28 | 0 | | | | 96 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 157 | 67 | 42 | 110 | | | | 376 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 26 | 19 | | | | 93 |
| B | 33 | 0 | 0 | 0 | | | | 33 |
| C | 21 | 28 | 0 | 150 | | | | 199 |
| D | 50 | 0 | 158 | 0 | | | | 208 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 76 | 184 | 169 | | | | 533 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 441 | 200 | 421 | | | | 1062 |
| B | 368 | 0 | 8 | 0 | | | | 376 |
| C | 187 | 59 | 0 | 300 | | | | 546 |
| D | 382 | 0 | 257 | 0 | | | | 639 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 937 | 500 | 465 | 721 | | | | 2623 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 341 | 163 | 300 | | | | 804 |
| B | 277 | 0 | 8 | 0 | | | | 285 |
| C | 156 | 28 | 0 | 86 | | | | 270 |
| D | 269 | 0 | 99 | 0 | | | | 368 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 702 | 369 | 270 | 386 | | | | 1727 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 55 | 19 | 67 | | | | 141 |
| B | 48 | 0 | 0 | 0 | | | | 48 |
| C | 20 | 11 | 0 | 38 | | | | 69 |
| D | 55 | 0 | 45 | 0 | | | | 100 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 123 | 66 | 64 | 105 | | | | 358 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 18 | 54 | | | | 117 |
| B | 43 | 0 | 0 | 0 | | | | 43 |
| C | 11 | 20 | 0 | 176 | | | | 207 |
| D | 58 | 0 | 113 | 0 | | | | 171 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 112 | 65 | 131 | 230 | | | | 538 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 390 | 289 | 503 | | | | 1182 |
| B | 335 | 0 | 2 | 0 | | | | 337 |
| C | 262 | 78 | 0 | 258 | | | | 598 |
| D | 499 | 0 | 217 | 0 | | | | 716 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1096 | 468 | 508 | 761 | | | | 2833 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 354 | 260 | 474 | | | | 1088 |
| B | 295 | 0 | 2 | 0 | | | | 297 |
| C | 234 | 66 | 0 | 170 | | | | 470 |
| D | 387 | 0 | 134 | 0 | | | | 521 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 916 | 420 | 396 | 644 | | | | 2376 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 18 | 26 | | | | 65 |
| B | 31 | 0 | 0 | 0 | | | | 31 |
| C | 17 | 11 | 0 | 16 | | | | 44 |
| D | 58 | 0 | 26 | 0 | | | | 84 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 106 | 32 | 44 | 42 | | | | 224 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 11 | 3 | | | | 29 |
| B | 9 | 0 | 0 | 0 | | | | 9 |
| C | 11 | 1 | 0 | 72 | | | | 84 |
| D | 54 | 0 | 57 | 0 | | | | 111 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 16 | 68 | 75 | | | | 233 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N\12 - M66 NB Of |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water\ 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 153 | 109 | 250 | 1291 | 51 | | 1854 |
| B | 283 | 0 | 26 | 302 | 0 | 38 | | 649 |
| C | 63 | 3 | 0 | 7 | 21 | 0 | | 94 |
| D | 630 | 235 | 25 | 0 | 304 | 73 | | 1267 |
| E | 1530 | 0 | 67 | 142 | 0 | 106 | | 1845 |
| F | 40 | 5 | 1 | 38 | 30 | 0 | | 114 |
| G | | | | | | | | |
| TOTAL | 2546 | 396 | 228 | 739 | 1646 | 268 | | 5823 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 115 | 44 | 219 | 980 | 47 | | 1405 |
| B | 262 | 0 | 24 | 219 | 0 | 32 | | 537 |
| C | 11 | 1 | 0 | 4 | 7 | 0 | | 23 |
| D | 548 | 157 | 22 | 0 | 199 | 40 | | 966 |
| E | 1170 | 0 | 52 | 76 | 0 | 97 | | 1395 |
| F | 32 | 3 | 1 | 23 | 20 | 0 | | 79 |
| G | | | | | | | | |
| TOTAL | 2023 | 276 | 143 | 541 | 1206 | 216 | | 4405 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 33 | 25 | 196 | 3 | | 289 |
| B | 16 | 0 | 2 | 57 | 0 | 1 | | 76 |
| C | 37 | 2 | 0 | 3 | 9 | 0 | | 51 |
| D | 52 | 42 | 3 | 0 | 55 | 12 | | 164 |
| E | 166 | 0 | 7 | 40 | 0 | 6 | | 219 |
| F | 3 | 1 | 0 | 5 | 5 | 0 | | 14 |
| G | | | | | | | | |
| TOTAL | 274 | 77 | 45 | 130 | 265 | 22 | | 813 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 32 | 6 | 115 | 1 | | 160 |
| B | 5 | 0 | 0 | 26 | 0 | 5 | | 36 |
| C | 15 | 0 | 0 | 0 | 5 | 0 | | 20 |
| D | 30 | 36 | 0 | 0 | 50 | 21 | | 137 |
| E | 194 | 0 | 8 | 26 | 0 | 3 | | 231 |
| F | 5 | 1 | 0 | 10 | 5 | 0 | | 21 |
| G | | | | | | | | |
| TOTAL | 249 | 43 | 40 | 68 | 175 | 30 | | 605 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 183 | 118 | 287 | 1204 | 33 | | 1825 |
| B | 224 | 0 | 22 | 225 | 0 | 12 | | 483 |
| C | 83 | 13 | 0 | 14 | 33 | 1 | | 144 |
| D | 402 | 157 | 26 | 0 | 180 | 62 | | 827 |
| E | 1248 | 0 | 48 | 205 | 0 | 45 | | 1546 |
| F | 41 | 14 | 2 | 42 | 54 | 0 | | 153 |
| G | | | | | | | | |
| TOTAL | 1998 | 367 | 216 | 773 | 1471 | 153 | | 4978 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 134 | 59 | 242 | 853 | 28 | | 1316 |
| B | 183 | 0 | 17 | 128 | 0 | 9 | | 337 |
| C | 29 | 8 | 0 | 11 | 21 | 1 | | 70 |
| D | 334 | 98 | 22 | 0 | 91 | 30 | | 575 |
| E | 886 | 0 | 37 | 123 | 0 | 33 | | 1079 |
| F | 36 | 11 | 2 | 26 | 41 | 0 | | 116 |
| G | | | | | | | | |
| TOTAL | 1468 | 251 | 137 | 530 | 1006 | 101 | | 3493 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 38 | 30 | 195 | 3 | | 294 |
| B | 23 | 0 | 3 | 34 | 0 | 1 | | 61 |
| C | 44 | 3 | 0 | 3 | 7 | 0 | | 57 |
| D | 51 | 34 | 4 | 0 | 37 | 13 | | 139 |
| E | 209 | 0 | 8 | 44 | 0 | 5 | | 266 |
| F | 4 | 2 | 0 | 9 | 5 | 0 | | 20 |
| G | | | | | | | | |
| TOTAL | 331 | 67 | 53 | 120 | 244 | 22 | | 837 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 21 | 15 | 156 | 2 | | 215 |
| B | 18 | 0 | 2 | 63 | 0 | 2 | | 85 |
| C | 10 | 2 | 0 | 0 | 5 | 0 | | 17 |
| D | 17 | 25 | 0 | 0 | 52 | 19 | | 113 |
| E | 153 | 0 | 3 | 38 | 0 | 7 | | 201 |
| F | 1 | 1 | 0 | 7 | 8 | 0 | | 17 |
| G | | | | | | | | |
| TOTAL | 199 | 49 | 26 | 123 | 221 | 30 | | 648 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 1 | 273 | 36 | 495 | 1322 | 42 | | 2169 |
| B | 290 | 0 | 6 | 212 | 0 | 14 | | 522 |
| C | 53 | 13 | 0 | 22 | 45 | 1 | | 134 |
| D | 531 | 180 | 12 | 0 | 270 | 69 | | 1062 |
| E | 1431 | 0 | 19 | 282 | 0 | 53 | | 1785 |
| F | 45 | 20 | 0 | 59 | 111 | 0 | | 235 |
| G | | | | | | | | |
| TOTAL | 2351 | 486 | 73 | 1070 | 1748 | 179 | | 5907 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 1 | 258 | 19 | 463 | 1202 | 40 | | 1983 |
| B | 267 | 0 | 5 | 177 | 0 | 13 | | 462 |
| C | 24 | 12 | 0 | 20 | 42 | 1 | | 99 |
| D | 488 | 157 | 10 | 0 | 216 | 58 | | 929 |
| E | 1256 | 0 | 15 | 237 | 0 | 41 | | 1549 |
| F | 41 | 19 | 0 | 54 | 103 | 0 | | 217 |
| G | | | | | | | | |
| TOTAL | 2077 | 446 | 49 | 951 | 1563 | 153 | | 5239 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 15 | 26 | 94 | 2 | | 151 |
| B | 20 | 0 | 1 | 25 | 0 | 1 | | 47 |
| C | 25 | 1 | 0 | 2 | 3 | 0 | | 31 |
| D | 34 | 20 | 2 | 0 | 32 | 10 | | 98 |
| E | 134 | 0 | 4 | 30 | 0 | 6 | | 174 |
| F | 3 | 1 | 0 | 4 | 2 | 0 | | 10 |
| G | | | | | | | | |
| TOTAL | 216 | 36 | 22 | 87 | 131 | 19 | | 511 |

MODELLED — HGV

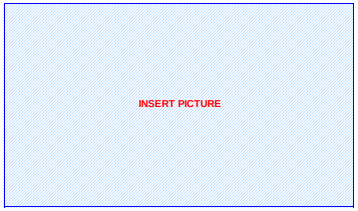
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 6 | 26 | 0 | | 35 |
| B | 3 | 0 | 0 | 10 | 0 | 0 | | 13 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 9 | 3 | 0 | 0 | 22 | 1 | | 35 |
| E | 41 | 0 | 0 | 15 | 0 | 6 | | 62 |
| F | 1 | 0 | 0 | 1 | 6 | 0 | | 8 |
| G | | | | | | | | |
| TOTAL | 58 | 4 | 2 | 32 | 54 | 7 | | 157 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | Heywood Old Road NE |
| B | 60074 | 2478 | 2478 | 60074 | Whittle Lane |
| C | 4730 | 2478 | 2478 | 4730 | Heywood Old Road SE |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 401 | | | | | 472 |
| B | 28 | 0 | 65 | | | | | 93 |
| C | 541 | 207 | 0 | | | | | 749 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 570 | 278 | 466 | | | | | 1314 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 66 | 307 | | | | | 374 |
| B | 25 | 0 | 51 | | | | | 76 |
| C | 415 | 170 | 0 | | | | | 585 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 439 | 236 | 358 | | | | | 1034 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 43 | | | | | 47 |
| B | 4 | 0 | 14 | | | | | 18 |
| C | 78 | 37 | 0 | | | | | 115 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 82 | 42 | 57 | | | | | 180 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 49 | | | | | 49 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 49 | 0 | 0 | | | | | 49 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 0 | 49 | | | | | 98 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 500 | | | | | 527 |
| B | 26 | 0 | 92 | | | | | 118 |
| C | 322 | 129 | 0 | | | | | 451 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 348 | 156 | 592 | | | | | 1096 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 332 | | | | | 352 |
| B | 18 | 0 | 75 | | | | | 94 |
| C | 244 | 105 | 0 | | | | | 349 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 262 | 125 | 407 | | | | | 795 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 77 | | | | | 84 |
| B | 8 | 0 | 17 | | | | | 24 |
| C | 40 | 25 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 48 | 32 | 94 | | | | | 173 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 88 | | | | | 88 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 38 | 0 | 0 | | | | | 38 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 0 | 88 | | | | | 126 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.98 | | | | | 1.98 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 781 | | | | | 823 |
| B | 48 | 0 | 146 | | | | | 194 |
| C | 414 | 147 | 0 | | | | | 561 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 462 | 189 | 927 | | | | | 1578 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 655 | | | | | 694 |
| B | 47 | 0 | 128 | | | | | 175 |
| C | 364 | 137 | 0 | | | | | 501 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 411 | 176 | 783 | | | | | 1370 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 93 | | | | | 96 |
| B | 1 | 0 | 18 | | | | | 19 |
| C | 41 | 11 | 0 | | | | | 51 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 42 | 13 | 111 | | | | | 166 |

MODELLED — HGV

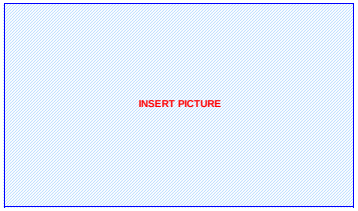
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 31 | | | | | 31 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 9 | 0 | 0 | | | | | 9 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 9 | 0 | 31 | | | | | 40 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.92 | | | | | 1.92 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Heywood Old Road / Langley Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | Heywood Old Road SB |
| B | 15238 | 4730 | 4730 | 15238 | Langley Lane |
| C | 2478 | 4730 | 4730 | 2478 | Heywood Old Road NB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 86 | 375 | | | | | 461 |
| B | 98 | 0 | 373 | | | | | 471 |
| C | 346 | 120 | 0 | | | | | 466 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 444 | 206 | 749 | | | | | 1399 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 72 | 270 | | | | | 342 |
| B | 90 | 0 | 315 | | | | | 404 |
| C | 258 | 100 | 0 | | | | | 358 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 348 | 172 | 585 | | | | | 1105 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 61 | | | | | 68 |
| B | 5 | 0 | 54 | | | | | 59 |
| C | 39 | 18 | 0 | | | | | 57 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 44 | 24 | 115 | | | | | 183 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 44 | | | | | 49 |
| B | 4 | 0 | 5 | | | | | 9 |
| C | 49 | 0 | 0 | | | | | 49 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 52 | 6 | 49 | | | | | 107 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 46 | 242 | | | | | 288 |
| B | 68 | 0 | 209 | | | | | 277 |
| C | 423 | 168 | 0 | | | | | 592 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 491 | 215 | 451 | | | | | 1157 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 167 | | | | | 206 |
| B | 56 | 0 | 182 | | | | | 238 |
| C | 272 | 136 | 0 | | | | | 407 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 327 | 175 | 349 | | | | | 851 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 38 | | | | | 42 |
| B | 6 | 0 | 27 | | | | | 33 |
| C | 70 | 24 | 0 | | | | | 94 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 76 | 28 | 65 | | | | | 169 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 37 | | | | | 38 |
| B | 4 | 0 | 0 | | | | | 5 |
| C | 81 | 7 | 0 | | | | | 88 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 85 | 8 | 38 | | | | | 131 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.98 | 0 | | | | | 5.98 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 77 | 307 | | | | | 384 |
| B | 72 | 0 | 254 | | | | | 326 |
| C | 631 | 296 | 0 | | | | | 927 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 703 | 373 | 561 | | | | | 1637 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 66 | 266 | | | | | 332 |
| B | 65 | 0 | 235 | | | | | 300 |
| C | 529 | 253 | 0 | | | | | 783 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 595 | 319 | 501 | | | | | 1415 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 32 | | | | | 41 |
| B | 4 | 0 | 19 | | | | | 23 |
| C | 71 | 40 | 0 | | | | | 111 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 48 | 51 | | | | | 175 |

MODELLED — HGV

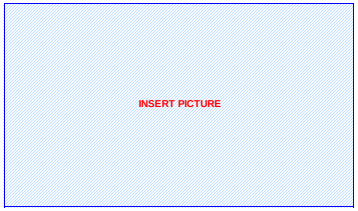
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 8 | | | | | 9 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 30 | 1 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 2 | 9 | | | | | 42 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 3.9 | 0 | | | | | 5.88 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Langley Lane / A6046 Hollin Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 143 | 851 | | | | | 994 |
| B | 100 | 0 | 76 | | | | | 176 |
| C | 675 | 10 | 0 | | | | | 685 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 775 | 153 | 927 | | | | | 1855 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 86 | 620 | | | | | 705 |
| B | 76 | 0 | 74 | | | | | 149 |
| C | 387 | 9 | 0 | | | | | 396 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 463 | 95 | 693 | | | | | 1251 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 136 | | | | | 189 |
| B | 20 | 0 | 1 | | | | | 21 |
| C | 160 | 1 | 0 | | | | | 161 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 180 | 53 | 137 | | | | | 370 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 76 | | | | | 81 |
| B | 1 | 0 | 1 | | | | | 2 |
| C | 98 | 0 | 0 | | | | | 98 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 99 | 5 | 77 | | | | | 181 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 20 | | | | | 20 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 0 | 20 | | | | | 53 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 135 | 850 | | | | | 985 |
| B | 89 | 0 | 8 | | | | | 97 |
| C | 590 | 17 | 0 | | | | | 607 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 679 | 152 | 859 | | | | | 1689 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 105 | 542 | | | | | 647 |
| B | 58 | 0 | 8 | | | | | 66 |
| C | 411 | 17 | 0 | | | | | 428 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 469 | 121 | 550 | | | | | 1140 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 154 | | | | | 181 |
| B | 22 | 0 | 0 | | | | | 22 |
| C | 100 | 1 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 28 | 154 | | | | | 303 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 135 | | | | | 135 |
| B | 5 | 0 | 0 | | | | | 5 |
| C | 55 | 0 | 0 | | | | | 55 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 60 | 1 | 135 | | | | | 196 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.76 | 1.99 | 19.92 | | | | | 49.67 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 187 | 861 | | | | | 1048 |
| B | 100 | 0 | 14 | | | | | 114 |
| C | 713 | 54 | 0 | | | | | 767 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 814 | 241 | 874 | | | | | 1929 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 166 | 695 | | | | | 861 |
| B | 63 | 0 | 13 | | | | | 77 |
| C | 563 | 53 | 0 | | | | | 616 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 627 | 219 | 708 | | | | | 1554 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 101 | | | | | 119 |
| B | 32 | 0 | 0 | | | | | 32 |
| C | 97 | 1 | 0 | | | | | 98 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 129 | 19 | 101 | | | | | 249 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 38 | | | | | 38 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 0 | 38 | | | | | 69 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 27 | | | | | 29 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 23 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.37 | 1.96 | 27.38 | | | | | 56.71 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Coronation Avenue

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 125 | 320 | | | | | 445 |
| B | 412 | 0 | 19 | | | | | 431 |
| C | 480 | 136 | 0 | | | | | 616 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 892 | 261 | 340 | | | | | 1492 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 227 | | | | | 227 |
| B | 273 | 0 | 8 | | | | | 281 |
| C | 421 | 90 | 0 | | | | | 511 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 694 | 90 | 235 | | | | | 1019 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 70 | | | | | 70 |
| B | 47 | 0 | 8 | | | | | 55 |
| C | 34 | 38 | 0 | | | | | 72 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 80 | 38 | 78 | | | | | 196 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 96 | 20 | | | | | 115 |
| B | 73 | 0 | 3 | | | | | 76 |
| C | 26 | 7 | 0 | | | | | 33 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 99 | 103 | 22 | | | | | 224 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 4 | | | | | 33 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 20 | 29 | 4 | | | | | 53 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 100 | 285 | | | | | 386 |
| B | 213 | 0 | 61 | | | | | 274 |
| C | 421 | 114 | 0 | | | | | 535 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 634 | 214 | 346 | | | | | 1195 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 195 | | | | | 195 |
| B | 73 | 0 | 8 | | | | | 81 |
| C | 284 | 72 | 0 | | | | | 356 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 357 | 72 | 204 | | | | | 632 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 50 | | | | | 50 |
| B | 11 | 0 | 44 | | | | | 55 |
| C | 91 | 30 | 0 | | | | | 121 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 102 | 30 | 93 | | | | | 225 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 77 | 34 | | | | | 111 |
| B | 110 | 0 | 9 | | | | | 118 |
| C | 44 | 12 | 0 | | | | | 56 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 153 | 89 | 43 | | | | | 285 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.84 | 23.82 | 5.95 | | | | | 51.61 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 353 | | | | | 406 |
| B | 397 | 0 | 21 | | | | | 418 |
| C | 531 | 100 | 0 | | | | | 630 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 927 | 152 | 374 | | | | | 1454 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 291 | | | | | 291 |
| B | 296 | 0 | 6 | | | | | 302 |
| C | 451 | 81 | 0 | | | | | 532 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 747 | 81 | 296 | | | | | 1124 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 39 | | | | | 39 |
| B | 39 | 0 | 14 | | | | | 53 |
| C | 50 | 18 | 0 | | | | | 68 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 89 | 18 | 53 | | | | | 160 |

MODELLED — HGV

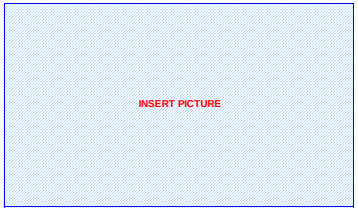
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 19 | | | | | 48 |
| B | 34 | 0 | 1 | | | | | 35 |
| C | 27 | 1 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 62 | 30 | 20 | | | | | 112 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 4 | | | | | 27 |
| B | 27 | 0 | 0 | | | | | 27 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.24 | 23.55 | 3.92 | | | | | 56.71 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / Hollins Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 334 | 474 | | | | | 807 |
| B | 202 | 0 | 66 | | | | | 268 |
| C | 698 | 65 | 0 | | | | | 764 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 901 | 399 | 540 | | | | | 1840 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 296 | 400 | | | | | 696 |
| B | 149 | 0 | 52 | | | | | 201 |
| C | 591 | 47 | 0 | | | | | 638 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 740 | 343 | 452 | | | | | 1535 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 56 | | | | | 88 |
| B | 37 | 0 | 8 | | | | | 45 |
| C | 74 | 11 | 0 | | | | | 85 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 112 | 42 | 64 | | | | | 218 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 18 | | | | | 20 |
| B | 12 | 0 | 0 | | | | | 12 |
| C | 33 | 2 | 0 | | | | | 35 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 45 | 4 | 18 | | | | | 67 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 175 | 505 | | | | | 681 |
| B | 182 | 0 | 47 | | | | | 229 |
| C | 627 | 44 | 0 | | | | | 670 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 809 | 219 | 552 | | | | | 1580 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 140 | 403 | | | | | 544 |
| B | 138 | 0 | 31 | | | | | 168 |
| C | 495 | 29 | 0 | | | | | 523 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 632 | 169 | 434 | | | | | 1235 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 66 | | | | | 93 |
| B | 29 | 0 | 9 | | | | | 38 |
| C | 91 | 8 | 0 | | | | | 99 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 120 | 35 | 75 | | | | | 230 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 36 | | | | | 42 |
| B | 12 | 0 | 1 | | | | | 12 |
| C | 41 | 0 | 0 | | | | | 41 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 6 | 37 | | | | | 96 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 4 | 7.96 | 5.99 | | | | | 17.95 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 304 | 551 | | | | | 855 |
| B | 143 | 0 | 41 | | | | | 184 |
| C | 645 | 58 | 0 | | | | | 703 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 789 | 361 | 592 | | | | | 1742 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 271 | 497 | | | | | 768 |
| B | 120 | 0 | 29 | | | | | 149 |
| C | 582 | 40 | 0 | | | | | 622 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 702 | 312 | 526 | | | | | 1540 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 48 | | | | | 75 |
| B | 14 | 0 | 5 | | | | | 19 |
| C | 40 | 11 | 0 | | | | | 51 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 38 | 53 | | | | | 145 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 6 | | | | | 8 |
| B | 7 | 0 | 0 | | | | | 7 |
| C | 24 | 0 | 0 | | | | | 25 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 2 | 7 | | | | | 40 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 9.83 | 5.95 | | | | | 17.76 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / A56 Manchester Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 595 | 633 | | | | | 1228 |
| B | 427 | 0 | 112 | | | | | 540 |
| C | 935 | 169 | 0 | | | | | 1104 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1363 | 764 | 745 | | | | | 2872 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 513 | 506 | | | | | 1019 |
| B | 363 | 0 | 88 | | | | | 452 |
| C | 813 | 125 | 0 | | | | | 938 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1177 | 638 | 595 | | | | | 2409 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 70 | | | | | 128 |
| B | 50 | 0 | 14 | | | | | 64 |
| C | 73 | 27 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 123 | 85 | 85 | | | | | 292 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 36 | | | | | 54 |
| B | 8 | 0 | 10 | | | | | 18 |
| C | 29 | 17 | 0 | | | | | 46 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 37 | 35 | 46 | | | | | 118 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 25 | 6 | 20 | | | | | 51 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 463 | 646 | | | | | 1109 |
| B | 347 | 0 | 205 | | | | | 552 |
| C | 728 | 207 | 0 | | | | | 935 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1075 | 670 | 852 | | | | | 2597 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 372 | 509 | | | | | 881 |
| B | 283 | 0 | 151 | | | | | 434 |
| C | 568 | 152 | 0 | | | | | 720 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 851 | 523 | 661 | | | | | 2035 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 80 | | | | | 151 |
| B | 46 | 0 | 29 | | | | | 75 |
| C | 100 | 29 | 0 | | | | | 129 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 147 | 99 | 110 | | | | | 356 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 37 | | | | | 52 |
| B | 12 | 0 | 25 | | | | | 37 |
| C | 37 | 26 | 0 | | | | | 64 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 41 | 62 | | | | | 152 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.89 | 5.98 | 19.93 | | | | | 53.8 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 567 | 673 | | | | | 1241 |
| B | 464 | 0 | 128 | | | | | 592 |
| C | 874 | 136 | 0 | | | | | 1010 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1338 | 703 | 802 | | | | | 2843 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 526 | 578 | | | | | 1104 |
| B | 414 | 0 | 112 | | | | | 526 |
| C | 767 | 96 | 0 | | | | | 863 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1181 | 622 | 691 | | | | | 2493 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 59 | | | | | 90 |
| B | 42 | 0 | 12 | | | | | 53 |
| C | 75 | 19 | 0 | | | | | 94 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 117 | 51 | 71 | | | | | 238 |

MODELLED — HGV

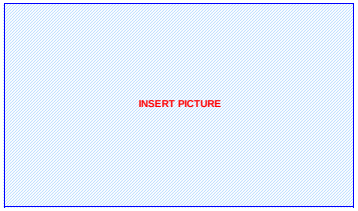
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 16 | | | | | 20 |
| B | 3 | 0 | 4 | | | | | 7 |
| C | 13 | 20 | 0 | | | | | 33 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 15 | 25 | 20 | | | | | 60 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 25.41 | 5.97 | 19.89 | | | | | 51.27 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 26859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1359 | 3296 | 848 | | | | 5503 |
| B | 581 | 35 | 1137 | 4790 | | | | 6543 |
| C | 3157 | 308 | 0 | 1238 | | | | 4703 |
| D | 1239 | 5276 | 2311 | 0 | | | | 8826 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4977 | 6978 | 6744 | 6876 | | | | 25575 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 986 | 2193 | 491 | | | | 3670 |
| B | 526 | 0 | 861 | 2438 | | | | 3825 |
| C | 2145 | 215 | 0 | 664 | | | | 3024 |
| D | 635 | 2598 | 1347 | 0 | | | | 4580 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3306 | 3799 | 4401 | 3593 | | | | 15099 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 195 | 698 | 141 | | | | 1034 |
| B | 46 | 2 | 113 | 856 | | | | 1017 |
| C | 501 | 72 | 0 | 405 | | | | 978 |
| D | 344 | 1012 | 551 | 0 | | | | 1907 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 891 | 1281 | 1362 | 1402 | | | | 4936 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 178 | 405 | 216 | | | | 799 |
| B | 9 | 33 | 163 | 1496 | | | | 1701 |
| C | 511 | 21 | 0 | 169 | | | | 701 |
| D | 260 | 1666 | 413 | 0 | | | | 2339 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 780 | 1898 | 981 | 1881 | | | | 5540 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1125 | 1879 | 962 | | | | 3966 |
| B | 535 | 67 | 561 | 5177 | | | | 6340 |
| C | 2592 | 232 | 0 | 965 | | | | 3789 |
| D | 1126 | 5350 | 2078 | 0 | | | | 8554 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4253 | 6774 | 4518 | 7104 | | | | 22649 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 791 | 1163 | 399 | | | | 2353 |
| B | 516 | 0 | 409 | 2527 | | | | 3452 |
| C | 1692 | 137 | 0 | 452 | | | | 2281 |
| D | 437 | 2469 | 1091 | 0 | | | | 3997 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2645 | 3397 | 2663 | 3378 | | | | 12083 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 162 | 419 | 224 | | | | 805 |
| B | 19 | 1 | 86 | 1089 | | | | 1195 |
| C | 483 | 44 | 0 | 270 | | | | 797 |
| D | 282 | 1040 | 456 | 0 | | | | 1778 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 784 | 1247 | 961 | 1583 | | | | 4575 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 172 | 297 | 339 | | | | 808 |
| B | 0 | 66 | 66 | 1561 | | | | 1693 |
| C | 417 | 51 | 0 | 243 | | | | 711 |
| D | 407 | 1841 | 531 | 0 | | | | 2779 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 824 | 2130 | 894 | 2143 | | | | 5991 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1302 | 2580 | 989 | | | | 4871 |
| B | 327 | 73 | 803 | 5322 | | | | 6525 |
| C | 3804 | 356 | 0 | 950 | | | | 5110 |
| D | 1467 | 5187 | 2364 | 0 | | | | 9018 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5598 | 6918 | 5747 | 7261 | | | | 25524 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1192 | 2148 | 656 | | | | 3996 |
| B | 314 | 1 | 761 | 3522 | | | | 4598 |
| C | 3070 | 278 | 0 | 649 | | | | 3997 |
| D | 1046 | 3518 | 1674 | 0 | | | | 6238 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4430 | 4989 | 4583 | 4827 | | | | 18829 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 89 | 344 | 171 | | | | 604 |
| B | 13 | 3 | 29 | 768 | | | | 813 |
| C | 489 | 74 | 0 | 257 | | | | 820 |
| D | 253 | 741 | 414 | 0 | | | | 1408 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 755 | 907 | 787 | 1196 | | | | 3645 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 88 | 162 | | | | 271 |
| B | 0 | 69 | 13 | 1032 | | | | 1114 |
| C | 245 | 4 | 0 | 44 | | | | 293 |
| D | 168 | 928 | 276 | 0 | | | | 1372 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 413 | 1022 | 377 | 1238 | | | | 3050 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | JTC 20 - A627 SB |
| B | 2727 | 2724 | 2723 | 2725 | JTC 20 - M62 WB |
| C | 2768 | 4932 | 4929 | 2767 | JTC 20 - A627 NB |
| D | 2719 | 2721 | 2722 | 2720 | JTC 20 - M62 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 286 | 1026 | 764 | | | | 2076 |
| B | 212 | 0 | 1107 | 4761 | | | | 6080 |
| C | 999 | 787 | 0 | 1018 | | | | 2804 |
| D | 917 | 5333 | 1073 | 0 | | | | 7323 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2128 | 6406 | 3206 | 6543 | | | | 18283 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 215 | 776 | 460 | | | | 1451 |
| B | 179 | 0 | 782 | 2450 | | | | 3411 |
| C | 811 | 446 | 0 | 698 | | | | 1955 |
| D | 539 | 2730 | 738 | 0 | | | | 4007 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1529 | 3391 | 2296 | 3608 | | | | 10824 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 100 | 127 | | | | 256 |
| B | 26 | 0 | 161 | 780 | | | | 967 |
| C | 113 | 99 | 0 | 178 | | | | 390 |
| D | 147 | 956 | 197 | 0 | | | | 1300 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 286 | 1084 | 458 | 1085 | | | | 2913 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 150 | 177 | | | | 369 |
| B | 7 | 0 | 164 | 1531 | | | | 1702 |
| C | 75 | 242 | 0 | 142 | | | | 459 |
| D | 231 | 1647 | 138 | 0 | | | | 2016 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 313 | 1931 | 452 | 1850 | | | | 4546 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 144 | 866 | 639 | | | | 1649 |
| B | 253 | 0 | 965 | 4726 | | | | 5944 |
| C | 336 | 697 | 0 | 815 | | | | 1848 |
| D | 757 | 5413 | 792 | 0 | | | | 6962 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1346 | 6254 | 2623 | 6180 | | | | 16403 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 85 | 616 | 363 | | | | 1064 |
| B | 93 | 0 | 449 | 2458 | | | | 3000 |
| C | 164 | 334 | 0 | 558 | | | | 1056 |
| D | 541 | 2550 | 550 | 0 | | | | 3641 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 798 | 2969 | 1615 | 3379 | | | | 8761 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 120 | 126 | | | | 264 |
| B | 22 | 0 | 178 | 816 | | | | 1016 |
| C | 102 | 115 | 0 | 195 | | | | 412 |
| D | 142 | 951 | 156 | 0 | | | | 1249 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 266 | 1084 | 454 | 1137 | | | | 2941 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 130 | 150 | | | | 321 |
| B | 138 | 0 | 338 | 1452 | | | | 1928 |
| C | 70 | 248 | 0 | 62 | | | | 380 |
| D | 74 | 1912 | 86 | 0 | | | | 2072 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 282 | 2201 | 554 | 1664 | | | | 4701 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 245 | 965 | 1025 | | | | 2235 |
| B | 178 | 0 | 1114 | 4444 | | | | 5736 |
| C | 943 | 923 | 0 | 1213 | | | | 3079 |
| D | 617 | 5241 | 1021 | 0 | | | | 6879 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1738 | 6409 | 3100 | 6682 | | | | 17929 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 190 | 718 | 703 | | | | 1611 |
| B | 124 | 0 | 863 | 2927 | | | | 3914 |
| C | 824 | 703 | 0 | 987 | | | | 2514 |
| D | 504 | 3619 | 893 | 0 | | | | 5016 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1452 | 4512 | 2474 | 4617 | | | | 13055 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 123 | 133 | | | | 282 |
| B | 13 | 0 | 97 | 569 | | | | 679 |
| C | 96 | 121 | 0 | 148 | | | | 365 |
| D | 94 | 724 | 100 | 0 | | | | 918 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 203 | 871 | 320 | 850 | | | | 2244 |

MODELLED — HGV

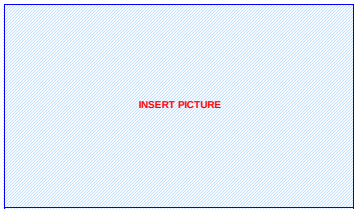
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 124 | 189 | | | | 342 |
| B | 41 | 0 | 154 | 948 | | | | 1143 |
| C | 23 | 99 | 0 | 78 | | | | 200 |
| D | 19 | 898 | 28 | 0 | | | | 945 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 83 | 1026 | 306 | 1215 | | | | 2630 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J19




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | *JTC 21 - M60 SB* |
| B | 14141 | 5666 | 5093 | 14141 | *JTC 21 - A576 WB* |
| C | 5668 | 5665 | 5667 | 5669 | *JTC 21 - M60 NB* |
| D | 3414 | 5096 | 5095 | 3414 | *JTC 21 - A576 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 548 | 0 | 980 | | | | 1528 |
| B | 374 | 0 | 285 | 462 | | | | 1121 |
| C | 0 | 245 | 26 | 599 | | | | 870 |
| D | 408 | 299 | 725 | 0 | | | | 1432 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 782 | 1092 | 1036 | 2041 | | | | 4951 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 408 | 0 | 812 | | | | 1220 |
| B | 265 | 0 | 182 | 403 | | | | 850 |
| C | 0 | 155 | 23 | 498 | | | | 676 |
| D | 336 | 273 | 623 | 0 | | | | 1232 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 601 | 836 | 828 | 1713 | | | | 3978 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 85 | 0 | 80 | | | | 165 |
| B | 42 | 0 | 60 | 55 | | | | 157 |
| C | 0 | 31 | 3 | 79 | | | | 113 |
| D | 42 | 21 | 84 | 0 | | | | 147 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 84 | 137 | 147 | 214 | | | | 582 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 55 | 0 | 88 | | | | 143 |
| B | 67 | 0 | 43 | 4 | | | | 114 |
| C | 0 | 59 | 0 | 22 | | | | 81 |
| D | 30 | 5 | 18 | 0 | | | | 53 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 97 | 119 | 61 | 114 | | | | 391 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 350 | 0 | 688 | | | | 1038 |
| B | 213 | 0 | 261 | 341 | | | | 815 |
| C | 0 | 331 | 46 | 546 | | | | 923 |
| D | 520 | 475 | 669 | 0 | | | | 1664 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 733 | 1156 | 976 | 1575 | | | | 4440 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 228 | 0 | 539 | | | | 767 |
| B | 158 | 0 | 148 | 301 | | | | 607 |
| C | 0 | 181 | 46 | 437 | | | | 664 |
| D | 373 | 416 | 521 | 0 | | | | 1310 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 531 | 825 | 715 | 1277 | | | | 3348 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 0 | 95 | | | | 170 |
| B | 27 | 0 | 47 | 35 | | | | 109 |
| C | 0 | 76 | 0 | 74 | | | | 150 |
| D | 89 | 48 | 105 | 0 | | | | 242 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 116 | 199 | 152 | 204 | | | | 671 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 0 | 54 | | | | 101 |
| B | 28 | 0 | 66 | 5 | | | | 99 |
| C | 0 | 74 | 0 | 35 | | | | 109 |
| D | 58 | 11 | 43 | 0 | | | | 112 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 86 | 132 | 109 | 94 | | | | 421 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 358 | 0 | 1129 | | | | 1487 |
| B | 178 | 0 | 191 | 595 | | | | 964 |
| C | 8 | 371 | 11 | 543 | | | | 933 |
| D | 851 | 842 | 817 | 0 | | | | 2510 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1037 | 1571 | 1019 | 2267 | | | | 5894 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 289 | 0 | 1059 | | | | 1348 |
| B | 152 | 0 | 153 | 539 | | | | 844 |
| C | 6 | 301 | 11 | 489 | | | | 807 |
| D | 748 | 771 | 743 | 0 | | | | 2262 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 906 | 1361 | 907 | 2087 | | | | 5261 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 0 | 52 | | | | 99 |
| B | 19 | 0 | 31 | 52 | | | | 102 |
| C | 1 | 50 | 0 | 54 | | | | 105 |
| D | 98 | 62 | 67 | 0 | | | | 227 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 118 | 159 | 98 | 158 | | | | 533 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 0 | 18 | | | | 40 |
| B | 7 | 0 | 7 | 4 | | | | 18 |
| C | 1 | 20 | 0 | 0 | | | | 21 |
| D | 5 | 9 | 7 | 0 | | | | 21 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 13 | 51 | 14 | 22 | | | | 100 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A576 Middleton Road / A6045 Heywood Old Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 2 | 502 | | | | 528 |
| B | 75 | 0 | 4 | 621 | | | | 699 |
| C | 4 | 4 | 0 | 15 | | | | 23 |
| D | 377 | 722 | 9 | 0 | | | | 1108 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 457 | 751 | 14 | 1137 | | | | 2359 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 1 | 366 | | | | 380 |
| B | 51 | 0 | 1 | 472 | | | | 524 |
| C | 3 | 2 | 0 | 11 | | | | 16 |
| D | 299 | 530 | 7 | 0 | | | | 836 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 353 | 546 | 9 | 849 | | | | 1757 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | 82 | | | | 91 |
| B | 9 | 0 | 1 | 72 | | | | 81 |
| C | 1 | 1 | 0 | 3 | | | | 5 |
| D | 34 | 103 | 1 | 0 | | | | 137 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 44 | 112 | 2 | 156 | | | | 314 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 0 | 54 | | | | 57 |
| B | 15 | 0 | 2 | 60 | | | | 76 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 44 | 74 | 1 | 0 | | | | 119 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 60 | 78 | 3 | 114 | | | | 255 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 34 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 7 | 273 | | | | 370 |
| B | 102 | 0 | 6 | 551 | | | | 659 |
| C | 5 | 6 | 0 | 8 | | | | 19 |
| D | 452 | 712 | 9 | 0 | | | | 1172 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 559 | 808 | 21 | 832 | | | | 2220 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 5 | 194 | | | | 275 |
| B | 64 | 0 | 4 | 406 | | | | 473 |
| C | 3 | 4 | 0 | 6 | | | | 13 |
| D | 319 | 499 | 7 | 0 | | | | 825 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 386 | 579 | 15 | 606 | | | | 1586 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 1 | 40 | | | | 51 |
| B | 11 | 0 | 1 | 67 | | | | 80 |
| C | 1 | 1 | 0 | 1 | | | | 4 |
| D | 75 | 122 | 1 | 0 | | | | 198 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 87 | 133 | 4 | 109 | | | | 333 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 1 | 38 | | | | 44 |
| B | 27 | 0 | 1 | 60 | | | | 88 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 58 | 73 | 1 | 0 | | | | 131 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 86 | 78 | 2 | 99 | | | | 265 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.83 | 0 | 17.95 | | | | 35.78 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 87 | 2 | 363 | | | | 453 |
| B | 140 | 0 | 4 | 611 | | | | 755 |
| C | 4 | 6 | 0 | 5 | | | | 15 |
| D | 699 | 882 | 10 | 0 | | | | 1590 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 842 | 974 | 17 | 980 | | | | 2813 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 81 | 2 | 316 | | | | 398 |
| B | 129 | 0 | 4 | 525 | | | | 658 |
| C | 3 | 4 | 0 | 4 | | | | 11 |
| D | 598 | 756 | 8 | 0 | | | | 1362 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 730 | 841 | 14 | 845 | | | | 2429 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 0 | 40 | | | | 46 |
| B | 10 | 0 | 0 | 61 | | | | 71 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 74 | 84 | 1 | 0 | | | | 159 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 84 | 91 | 2 | 102 | | | | 278 |

HGV

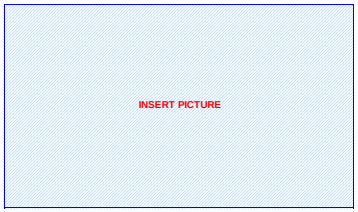
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 0 | 7 | | | | 9 |
| B | 1 | 0 | 0 | 10 | | | | 11 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 27 | 24 | 1 | 0 | | | | 52 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 28 | 26 | 1 | 18 | | | | 73 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 17 | 0 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.18 | 0 | 15.62 | | | | 32.8 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DM_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 107 | 873 | | | | | 980 |
| B | 0 | 0 | 1009 | | | | | 1009 |
| C | 1887 | 689 | 0 | | | | | 2576 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1887 | 796 | 1882 | | | | | 4565 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 653 | | | | | 727 |
| B | 0 | 0 | 751 | | | | | 751 |
| C | 1496 | 528 | 0 | | | | | 2024 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1496 | 602 | 1404 | | | | | 3502 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 93 | | | | | 114 |
| B | 0 | 0 | 196 | | | | | 196 |
| C | 162 | 111 | 0 | | | | | 273 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 162 | 133 | 289 | | | | | 583 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 97 | | | | | 110 |
| B | 0 | 0 | 62 | | | | | 62 |
| C | 199 | 49 | 0 | | | | | 249 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 199 | 62 | 159 | | | | | 420 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 29 | | | | | 29 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 0 | 29 | | | | | 60 |

### Model_2_Heywood_DM_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 905 | | | | | 931 |
| B | 0 | 0 | 951 | | | | | 951 |
| C | 1443 | 591 | 0 | | | | | 2034 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1443 | 618 | 1855 | | | | | 3916 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 656 | | | | | 678 |
| B | 0 | 0 | 661 | | | | | 661 |
| C | 1073 | 399 | 0 | | | | | 1471 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1073 | 421 | 1316 | | | | | 2810 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 109 | | | | | 111 |
| B | 0 | 0 | 185 | | | | | 185 |
| C | 192 | 139 | 0 | | | | | 331 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 192 | 141 | 294 | | | | | 627 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 110 | | | | | 112 |
| B | 0 | 0 | 105 | | | | | 105 |
| C | 146 | 53 | 0 | | | | | 200 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 146 | 56 | 216 | | | | | 418 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.59 | 0 | 29.65 | | | | | 61.24 |

### Model_3_Heywood_DM_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 1101 | | | | | 1106 |
| B | 0 | 0 | 1095 | | | | | 1095 |
| C | 1657 | 723 | 0 | | | | | 2380 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1657 | 728 | 2196 | | | | | 4581 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 998 | | | | | 1001 |
| B | 0 | 0 | 986 | | | | | 986 |
| C | 1466 | 612 | 0 | | | | | 2078 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1466 | 614 | 1984 | | | | | 4064 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 57 | | | | | 58 |
| B | 0 | 0 | 93 | | | | | 93 |
| C | 132 | 84 | 0 | | | | | 216 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 132 | 85 | 150 | | | | | 367 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 18 | | | | | 19 |
| B | 0 | 0 | 16 | | | | | 16 |
| C | 30 | 27 | 0 | | | | | 58 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 28 | 35 | | | | | 94 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.59 | 0 | 27.21 | | | | | 55.8 |

## Run 11 - 2039 Do Something 1a - Origin-Destination Matrices

- Policy Off (Non Vision-Led)
- including all of the JPA1.1 Allocation Site
- excluding the M62 Access solution
- including Common Highway Mitigation Package and J18 DCO works
- Whittle Lane capacity constrained and South Heywood Link Closed

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60057 | 60011 | 4924 | 2718 | C1-M62 WJC1-M62 West |
| E | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizabe |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 270 | 276 | 467 | 8 | | | 1021 |
| B | 237 | 0 | 87 | 0 | 742 | | | 1066 |
| C | 268 | 283 | 0 | 304 | 109 | | | 964 |
| D | 188 | 0 | 120 | 2 | 440 | | | 750 |
| E | 1 | 509 | 122 | 153 | 0 | | | 785 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 694 | 1062 | 605 | 926 | 1299 | | | 4586 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 181 | 200 | 329 | 7 | | | 717 |
| B | 148 | 0 | 49 | 0 | 355 | | | 552 |
| C | 213 | 215 | 0 | 248 | 61 | | | 737 |
| D | 88 | 0 | 83 | 0 | 259 | | | 430 |
| E | 0 | 171 | 66 | 123 | 0 | | | 360 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 449 | 567 | 398 | 700 | 682 | | | 2796 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 66 | 66 | 44 | 1 | | | 177 |
| B | 40 | 0 | 35 | 0 | 64 | | | 139 |
| C | 49 | 28 | 0 | 49 | 14 | | | 140 |
| D | 58 | 0 | 14 | 1 | 39 | | | 112 |
| E | 1 | 54 | 10 | 8 | 0 | | | 73 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 148 | 148 | 125 | 102 | 118 | | | 641 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 10 | 94 | 0 | | | 127 |
| B | 49 | 0 | 3 | 0 | 323 | | | 375 |
| C | 6 | 40 | 0 | 7 | 34 | | | 87 |
| D | 42 | 0 | 23 | 1 | 142 | | | 208 |
| E | 0 | 284 | 46 | 22 | 0 | | | 352 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 97 | 347 | 82 | 124 | 499 | | | 1149 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 258 | 264 | 270 | 1 | | | 793 |
| B | 167 | 0 | 127 | 0 | 458 | | | 752 |
| C | 199 | 264 | 0 | 297 | 112 | | | 872 |
| D | 225 | 0 | 107 | 8 | 319 | | | 659 |
| E | 9 | 537 | 112 | 92 | 0 | | | 750 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 600 | 1059 | 610 | 667 | 890 | | | 3826 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 169 | 215 | 148 | 1 | | | 533 |
| B | 91 | 0 | 91 | 0 | 178 | | | 360 |
| C | 148 | 162 | 0 | 176 | 59 | | | 545 |
| D | 98 | 0 | 72 | 0 | 68 | | | 238 |
| E | 4 | 198 | 57 | 25 | 0 | | | 284 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 341 | 529 | 435 | 349 | 306 | | | 1960 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 57 | 35 | 62 | 0 | | | 154 |
| B | 40 | 0 | 26 | 0 | 50 | | | 116 |
| C | 35 | 37 | 0 | 74 | 11 | | | 157 |
| D | 56 | 0 | 29 | 1 | 44 | | | 130 |
| E | 4 | 58 | 15 | 11 | 0 | | | 88 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 135 | 152 | 105 | 148 | 105 | | | 645 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 14 | 60 | 0 | | | 106 |
| B | 36 | 0 | 10 | 0 | 230 | | | 276 |
| C | 16 | 65 | 0 | 47 | 42 | | | 170 |
| D | 71 | 0 | 6 | 7 | 207 | | | 291 |
| E | 1 | 281 | 40 | 56 | 0 | | | 378 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 124 | 378 | 70 | 170 | 479 | | | 1221 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 241 | 298 | 309 | 4 | | | 852 |
| B | 219 | 0 | 155 | 0 | 450 | | | 824 |
| C | 249 | 257 | 0 | 298 | 87 | | | 891 |
| D | 274 | 0 | 216 | 0 | 357 | | | 847 |
| E | 14 | 602 | 128 | 57 | 0 | | | 801 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 756 | 1100 | 797 | 664 | 898 | | | 4215 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 186 | 263 | 272 | 2 | | | 723 |
| B | 159 | 0 | 120 | 0 | 235 | | | 514 |
| C | 227 | 210 | 0 | 230 | 67 | | | 734 |
| D | 209 | 0 | 175 | 0 | 244 | | | 628 |
| E | 13 | 449 | 97 | 44 | 0 | | | 603 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 608 | 845 | 655 | 546 | 548 | | | 3202 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 30 | 20 | 2 | | | 91 |
| B | 36 | 0 | 27 | 0 | 28 | | | 91 |
| C | 20 | 34 | 0 | 41 | 7 | | | 102 |
| D | 37 | 0 | 35 | 0 | 26 | | | 98 |
| E | 1 | 30 | 7 | 2 | 0 | | | 40 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 103 | 99 | 63 | 63 | | | 422 |

MODELLED — HGV

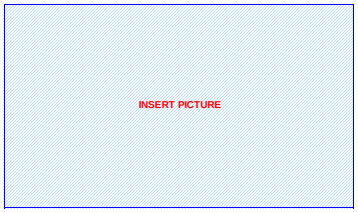
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 5 | 17 | 0 | | | 38 |
| B | 24 | 0 | 8 | 0 | 187 | | | 219 |
| C | 2 | 13 | 0 | 27 | 13 | | | 55 |
| D | 28 | 0 | 6 | 0 | 87 | | | 121 |
| E | 0 | 123 | 24 | 11 | 0 | | | 158 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 152 | 43 | 55 | 287 | | | 591 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | 045 Manchester Road |
| B | 60003 | 60010 | 60010 | 60003 | 4 Queen Elizabeth Wa |
| C | 2814 | 60010 | 60010 | 2814 | 045 Manchester Road |
| D | 60008 | 60010 | 60010 | 60008 | 4 Queen Elizabeth Wa |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 129 | 296 | 85 | | | | 511 |
| B | 148 | 0 | 216 | 938 | | | | 1303 |
| C | 326 | 103 | 0 | 152 | | | | 581 |
| D | 78 | 554 | 40 | 0 | | | | 672 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 552 | 786 | 552 | 1176 | | | | 3066 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 112 | 210 | 67 | | | | 389 |
| B | 128 | 0 | 171 | 385 | | | | 685 |
| C | 279 | 72 | 0 | 106 | | | | 457 |
| D | 54 | 177 | 34 | 0 | | | | 264 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 462 | 361 | 415 | 558 | | | | 1795 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 63 | 18 | | | | 90 |
| B | 9 | 0 | 42 | 68 | | | | 119 |
| C | 32 | 24 | 0 | 14 | | | | 70 |
| D | 15 | 40 | 5 | 0 | | | | 60 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 73 | 110 | 100 | | | | 339 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 21 | 0 | | | | 30 |
| B | 10 | 0 | 3 | 485 | | | | 499 |
| C | 15 | 7 | 0 | 32 | | | | 54 |
| D | 9 | 337 | 2 | 0 | | | | 347 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 352 | 26 | 518 | | | | 930 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 224 | 73 | | | | 337 |
| B | 95 | 0 | 139 | 656 | | | | 890 |
| C | 367 | 188 | 0 | 108 | | | | 663 |
| D | 52 | 524 | 62 | 0 | | | | 638 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 514 | 752 | 425 | 836 | | | | 2527 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 159 | 53 | | | | 235 |
| B | 70 | 0 | 102 | 133 | | | | 306 |
| C | 268 | 126 | 0 | 67 | | | | 461 |
| D | 31 | 137 | 44 | 0 | | | | 212 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 369 | 286 | 305 | 253 | | | | 1214 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 34 | 18 | | | | 59 |
| B | 13 | 0 | 33 | 61 | | | | 106 |
| C | 56 | 35 | 0 | 21 | | | | 112 |
| D | 17 | 46 | 7 | 0 | | | | 70 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 86 | 88 | 74 | 100 | | | | 348 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 29 | 1 | | | | 41 |
| B | 12 | 0 | 4 | 462 | | | | 478 |
| C | 41 | 27 | 0 | 20 | | | | 88 |
| D | 3 | 341 | 11 | 0 | | | | 355 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 378 | 44 | 483 | | | | 962 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 286 | 56 | | | | 378 |
| B | 135 | 0 | 182 | 582 | | | | 898 |
| C | 503 | 305 | 0 | 102 | | | | 909 |
| D | 107 | 460 | 83 | 0 | | | | 650 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 745 | 801 | 550 | 739 | | | | 2836 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 247 | 38 | | | | 309 |
| B | 114 | 0 | 161 | 274 | | | | 549 |
| C | 438 | 281 | 0 | 78 | | | | 797 |
| D | 89 | 296 | 71 | 0 | | | | 457 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 641 | 602 | 478 | 390 | | | | 2112 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 31 | 16 | | | | 50 |
| B | 14 | 0 | 17 | 31 | | | | 63 |
| C | 46 | 22 | 0 | 15 | | | | 84 |
| D | 10 | 16 | 8 | 0 | | | | 34 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 70 | 41 | 56 | 63 | | | | 231 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 6 | 2 | | | | 17 |
| B | 6 | 0 | 4 | 277 | | | | 287 |
| C | 17 | 1 | 0 | 8 | | | | 26 |
| D | 8 | 148 | 3 | 0 | | | | 159 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 157 | 14 | 286 | | | | 489 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.91 | 0 | 1.96 | 0 | | | | 3.87 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Hill Top Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | *Harehills Rd EB* |
| B | 60036 | 60031 | 60031 | 60036 | *Hill Top Road* |
| C | 60230 | 7454 | 7454 | 60230 | *Harehills Rd SB* |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 123 | 503 | 49 | | | | 675 |
| B | 97 | 0 | 12 | 2 | | | | 111 |
| C | 995 | 68 | 0 | 157 | | | | 1220 |
| D | 48 | 0 | 53 | 0 | | | | 101 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1140 | 191 | 568 | 208 | | | | 2107 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 162 | 39 | | | | 261 |
| B | 11 | 0 | 2 | 0 | | | | 13 |
| C | 497 | 42 | 0 | 63 | | | | 602 |
| D | 15 | 0 | 3 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 523 | 102 | 167 | 102 | | | | 894 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 51 | 6 | | | | 66 |
| B | 8 | 0 | 1 | 1 | | | | 10 |
| C | 77 | 5 | 0 | 19 | | | | 101 |
| D | 15 | 0 | 2 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 100 | 14 | 54 | 26 | | | | 194 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 290 | 4 | | | | 348 |
| B | 78 | 0 | 9 | 1 | | | | 88 |
| C | 421 | 21 | 0 | 75 | | | | 517 |
| D | 18 | 0 | 48 | 0 | | | | 66 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 517 | 75 | 347 | 80 | | | | 1019 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 496 | 27 | | | | 598 |
| B | 92 | 0 | 46 | 1 | | | | 139 |
| C | 659 | 50 | 0 | 112 | | | | 821 |
| D | 63 | 2 | 89 | 0 | | | | 154 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 814 | 127 | 631 | 140 | | | | 1712 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 178 | 21 | | | | 223 |
| B | 32 | 0 | 13 | 0 | | | | 45 |
| C | 213 | 8 | 0 | 19 | | | | 240 |
| D | 34 | 1 | 15 | 0 | | | | 50 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 279 | 33 | 206 | 40 | | | | 558 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 49 | 5 | | | | 66 |
| B | 16 | 0 | 8 | 1 | | | | 25 |
| C | 68 | 8 | 0 | 22 | | | | 98 |
| D | 18 | 1 | 12 | 0 | | | | 31 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 102 | 21 | 69 | 28 | | | | 220 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 269 | 1 | | | | 309 |
| B | 44 | 0 | 25 | 0 | | | | 69 |
| C | 378 | 34 | 0 | 71 | | | | 483 |
| D | 11 | 0 | 62 | 0 | | | | 73 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 433 | 73 | 356 | 72 | | | | 934 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 576 | 13 | | | | 640 |
| B | 96 | 0 | 52 | 0 | | | | 148 |
| C | 586 | 25 | 0 | 52 | | | | 663 |
| D | 133 | 0 | 66 | 0 | | | | 199 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 815 | 76 | 694 | 65 | | | | 1650 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 419 | 12 | | | | 451 |
| B | 69 | 0 | 31 | 0 | | | | 100 |
| C | 296 | 12 | 0 | 10 | | | | 318 |
| D | 98 | 0 | 44 | 0 | | | | 142 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 463 | 32 | 494 | 22 | | | | 1011 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 30 | 1 | | | | 33 |
| B | 3 | 0 | 9 | 0 | | | | 12 |
| C | 53 | 1 | 0 | 4 | | | | 58 |
| D | 12 | 0 | 1 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 3 | 40 | 5 | | | | 116 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 127 | 0 | | | | 156 |
| B | 24 | 0 | 12 | 0 | | | | 36 |
| C | 237 | 12 | 0 | 38 | | | | 287 |
| D | 23 | 0 | 21 | 0 | | | | 44 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 284 | 41 | 160 | 38 | | | | 523 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Pilsworth Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 173 | 487 | | | | | 659 |
| B | 509 | 0 | 189 | | | | | 698 |
| C | 898 | 242 | 0 | | | | | 1140 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1408 | 414 | 676 | | | | | 2497 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 122 | 129 | | | | | 251 |
| B | 337 | 0 | 132 | | | | | 469 |
| C | 357 | 166 | 0 | | | | | 524 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 694 | 289 | 261 | | | | | 1244 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 36 | | | | | 59 |
| B | 58 | 0 | 31 | | | | | 90 |
| C | 56 | 43 | 0 | | | | | 99 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 114 | 66 | 67 | | | | | 247 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 322 | | | | | 349 |
| B | 114 | 0 | 25 | | | | | 139 |
| C | 486 | 32 | 0 | | | | | 517 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 600 | 59 | 347 | | | | | 1006 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 307 | 464 | | | | | 771 |
| B | 308 | 0 | 134 | | | | | 442 |
| C | 617 | 197 | 0 | | | | | 814 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 925 | 504 | 597 | | | | | 2027 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 146 | 136 | | | | | 282 |
| B | 168 | 0 | 86 | | | | | 255 |
| C | 157 | 122 | 0 | | | | | 279 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 326 | 268 | 223 | | | | | 816 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 40 | | | | | 78 |
| B | 43 | 0 | 25 | | | | | 68 |
| C | 63 | 38 | 0 | | | | | 102 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 106 | 76 | 65 | | | | | 247 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 124 | 287 | | | | | 410 |
| B | 97 | 0 | 23 | | | | | 120 |
| C | 396 | 37 | 0 | | | | | 433 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 493 | 161 | 309 | | | | | 963 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 372 | 490 | | | | | 861 |
| B | 262 | 0 | 149 | | | | | 411 |
| C | 532 | 283 | 0 | | | | | 815 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 794 | 655 | 639 | | | | | 2088 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 301 | 329 | | | | | 630 |
| B | 199 | 0 | 120 | | | | | 319 |
| C | 224 | 240 | 0 | | | | | 464 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 423 | 540 | 450 | | | | | 1413 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 14 | | | | | 36 |
| B | 12 | 0 | 18 | | | | | 30 |
| C | 35 | 33 | 0 | | | | | 67 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 54 | 33 | | | | | 133 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 146 | | | | | 196 |
| B | 51 | 0 | 10 | | | | | 62 |
| C | 273 | 10 | 0 | | | | | 284 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 324 | 60 | 156 | | | | | 541 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / A58 Bury St

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 541 | 141 | | | | | 682 |
| B | 570 | 0 | 514 | | | | | 1085 |
| C | 278 | 307 | 0 | | | | | 586 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 848 | 848 | 655 | | | | | 2352 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 324 | 117 | | | | | 441 |
| B | 367 | 0 | 343 | | | | | 709 |
| C | 231 | 260 | 0 | | | | | 492 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 598 | 584 | 460 | | | | | 1642 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 101 | 16 | | | | | 117 |
| B | 111 | 0 | 52 | | | | | 164 |
| C | 35 | 25 | 0 | | | | | 60 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 146 | 126 | 69 | | | | | 341 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 106 | 7 | | | | | 114 |
| B | 83 | 0 | 100 | | | | | 182 |
| C | 12 | 4 | 0 | | | | | 16 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 111 | 107 | | | | | 312 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 19 | | | | | 29 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 28 | 19 | | | | | 57 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 527 | 151 | | | | | 678 |
| B | 481 | 0 | 331 | | | | | 813 |
| C | 146 | 348 | 0 | | | | | 494 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 627 | 875 | 482 | | | | | 1984 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 366 | 120 | | | | | 486 |
| B | 327 | 0 | 199 | | | | | 526 |
| C | 113 | 175 | 0 | | | | | 287 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 439 | 541 | 319 | | | | | 1300 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 95 | 19 | | | | | 113 |
| B | 86 | 0 | 42 | | | | | 128 |
| C | 21 | 28 | 0 | | | | | 49 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 107 | 122 | 61 | | | | | 290 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 56 | 12 | | | | | 68 |
| B | 59 | 0 | 70 | | | | | 129 |
| C | 13 | 127 | 0 | | | | | 140 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 183 | 82 | | | | | 337 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.87 | 27.76 | 19.75 | | | | | 57.38 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 534 | 121 | | | | | 655 |
| B | 553 | 0 | 345 | | | | | 899 |
| C | 207 | 313 | 0 | | | | | 520 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 760 | 847 | 466 | | | | | 2073 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 474 | 106 | | | | | 579 |
| B | 473 | 0 | 273 | | | | | 747 |
| C | 184 | 266 | 0 | | | | | 450 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 657 | 739 | 379 | | | | | 1775 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 11 | | | | | 55 |
| B | 58 | 0 | 31 | | | | | 88 |
| C | 19 | 24 | 0 | | | | | 43 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 76 | 68 | 42 | | | | | 186 |

MODELLED — HGV

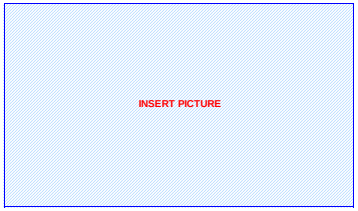
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 4 | | | | | 13 |
| B | 14 | 0 | 22 | | | | | 36 |
| C | 4 | 5 | 0 | | | | | 10 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 14 | 26 | | | | | 59 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 19 | | | | | 27 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.77 | 25.52 | 19.44 | | | | | 52.73 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / Heywood Distribution Centre




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | Pilsworth Rd NB |
| B | 20430 | 7459 | 7459 | 20430 | ywood Distribution Cer |
| C | 2813 | 7459 | 7459 | 2813 | Pilsworth Rd SB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 188 | 495 | | | | | 683 |
| B | 169 | 0 | 164 | | | | | 333 |
| C | 1063 | 345 | 0 | | | | | 1408 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1231 | 533 | 659 | | | | | 2423 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 133 | 210 | | | | | 343 |
| B | 33 | 0 | 41 | | | | | 74 |
| C | 528 | 166 | 0 | | | | | 694 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 560 | 299 | 251 | | | | | 1111 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 40 | | | | | 52 |
| B | 29 | 0 | 19 | | | | | 48 |
| C | 81 | 33 | 0 | | | | | 114 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 110 | 45 | 59 | | | | | 214 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 246 | | | | | 288 |
| B | 106 | 0 | 104 | | | | | 210 |
| C | 454 | 145 | 0 | | | | | 600 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 561 | 188 | 349 | | | | | 1098 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 109 | 570 | | | | | 679 |
| B | 215 | 0 | 201 | | | | | 416 |
| C | 639 | 287 | 0 | | | | | 925 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 854 | 395 | 771 | | | | | 2020 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 190 | | | | | 248 |
| B | 82 | 0 | 92 | | | | | 174 |
| C | 245 | 80 | 0 | | | | | 326 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 327 | 138 | 282 | | | | | 748 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 50 | | | | | 72 |
| B | 35 | 0 | 28 | | | | | 63 |
| C | 72 | 35 | 0 | | | | | 106 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 106 | 57 | 78 | | | | | 242 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 330 | | | | | 358 |
| B | 99 | 0 | 80 | | | | | 179 |
| C | 322 | 171 | 0 | | | | | 493 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 421 | 200 | 410 | | | | | 1031 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 709 | | | | | 759 |
| B | 206 | 0 | 153 | | | | | 359 |
| C | 631 | 164 | 0 | | | | | 794 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 837 | 214 | 861 | | | | | 1912 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 514 | | | | | 544 |
| B | 159 | 0 | 116 | | | | | 275 |
| C | 367 | 56 | 0 | | | | | 423 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 526 | 86 | 630 | | | | | 1242 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 30 | | | | | 34 |
| B | 15 | 0 | 6 | | | | | 21 |
| C | 33 | 14 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 48 | 18 | 36 | | | | | 101 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 165 | | | | | 182 |
| B | 32 | 0 | 30 | | | | | 63 |
| C | 231 | 94 | 0 | | | | | 324 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 263 | 110 | 196 | | | | | 569 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / JPA1.1 & SHDA employment

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | *Pilsworth Rd SB* |
| B | 60027 | 60229 | 60229 | 60027 | *SHDA* |
| C | 60024 | 60229 | 60229 | 60024 | *Pilsworth Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 1211 | | | | | 1231 |
| B | 12 | 0 | 18 | | | | | 30 |
| C | 671 | 31 | 0 | | | | | 702 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 683 | 51 | 1228 | | | | | 1963 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 551 | | | | | 560 |
| B | 3 | 0 | 5 | | | | | 8 |
| C | 340 | 13 | 0 | | | | | 353 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 343 | 22 | 556 | | | | | 921 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 108 | | | | | 110 |
| B | 1 | 0 | 2 | | | | | 4 |
| C | 51 | 3 | 0 | | | | | 54 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 52 | 6 | 110 | | | | | 168 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 552 | | | | | 561 |
| B | 8 | 0 | 10 | | | | | 18 |
| C | 280 | 14 | 0 | | | | | 295 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 288 | 23 | 562 | | | | | 873 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 842 | | | | | 854 |
| B | 16 | 0 | 26 | | | | | 43 |
| C | 662 | 27 | 0 | | | | | 689 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 679 | 39 | 868 | | | | | 1586 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 322 | | | | | 327 |
| B | 5 | 0 | 9 | | | | | 13 |
| C | 244 | 7 | 0 | | | | | 251 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 248 | 12 | 331 | | | | | 591 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 104 | | | | | 106 |
| B | 3 | 0 | 5 | | | | | 8 |
| C | 69 | 5 | 0 | | | | | 74 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 7 | 109 | | | | | 188 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 415 | | | | | 421 |
| B | 9 | 0 | 13 | | | | | 22 |
| C | 350 | 15 | 0 | | | | | 364 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 358 | 20 | 428 | | | | | 807 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 830 | | | | | 837 |
| B | 16 | 0 | 27 | | | | | 43 |
| C | 743 | 14 | 0 | | | | | 757 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 759 | 20 | 856 | | | | | 1636 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 524 | | | | | 526 |
| B | 9 | 0 | 18 | | | | | 27 |
| C | 534 | 5 | 0 | | | | | 540 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 544 | 7 | 541 | | | | | 1092 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 48 | | | | | 48 |
| B | 1 | 0 | 2 | | | | | 3 |
| C | 33 | 1 | 0 | | | | | 34 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 1 | 50 | | | | | 84 |

MODELLED — HGV

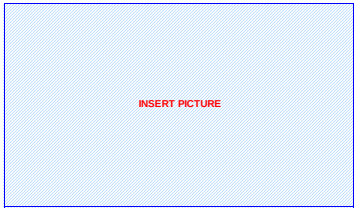
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 258 | | | | | 263 |
| B | 6 | 0 | 7 | | | | | 13 |
| C | 176 | 8 | 0 | | | | | 183 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 182 | 12 | 266 | | | | | 459 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** 3 Arrows (Pilsworth Road / Moss Hall Road - South)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 60241 | 2037 | 2037 | 60241 | *Link Road* |
| D | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 696 | 521 | 12 | | | | 1228 |
| B | 225 | 0 | 518 | 0 | | | | 743 |
| C | 474 | 1034 | 0 | 19 | | | | 1528 |
| D | 3 | 1 | 14 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 702 | 1731 | 1053 | 32 | | | | 3518 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 294 | 256 | 6 | | | | 556 |
| B | 18 | 0 | 138 | 0 | | | | 156 |
| C | 334 | 635 | 0 | 6 | | | | 976 |
| D | 1 | 1 | 1 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 353 | 931 | 395 | 13 | | | | 1692 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 46 | 62 | 1 | | | | 110 |
| B | 13 | 0 | 87 | 0 | | | | 100 |
| C | 41 | 121 | 0 | 5 | | | | 166 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 167 | 149 | 6 | | | | 377 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 355 | 202 | 4 | | | | 562 |
| B | 194 | 0 | 293 | 0 | | | | 487 |
| C | 99 | 278 | 0 | 8 | | | | 385 |
| D | 2 | 0 | 13 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 295 | 633 | 509 | 13 | | | | 1449 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 369 | 494 | 5 | | | | 868 |
| B | 330 | 0 | 880 | 1 | | | | 1211 |
| C | 347 | 637 | 0 | 23 | | | | 1007 |
| D | 12 | 1 | 18 | 0 | | | | 31 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 689 | 1006 | 1393 | 29 | | | | 3117 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 72 | 256 | 3 | | | | 331 |
| B | 59 | 0 | 421 | 1 | | | | 480 |
| C | 189 | 245 | 0 | 2 | | | | 436 |
| D | 3 | 1 | 5 | 0 | | | | 8 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 251 | 318 | 682 | 5 | | | | 1256 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 67 | 2 | | | | 109 |
| B | 29 | 0 | 132 | 1 | | | | 162 |
| C | 42 | 103 | 0 | 2 | | | | 147 |
| D | 2 | 0 | 1 | 0 | | | | 4 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 143 | 200 | 5 | | | | 422 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 256 | 172 | 0 | | | | 428 |
| B | 242 | 0 | 327 | 0 | | | | 569 |
| C | 116 | 289 | 0 | 19 | | | | 423 |
| D | 6 | 0 | 12 | 0 | | | | 19 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 364 | 545 | 511 | 19 | | | | 1439 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 190 | 652 | 14 | | | | 856 |
| B | 309 | 0 | 1070 | 2 | | | | 1381 |
| C | 442 | 288 | 0 | 19 | | | | 748 |
| D | 6 | 0 | 12 | 0 | | | | 19 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 757 | 478 | 1735 | 35 | | | | 3004 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 502 | 9 | | | | 541 |
| B | 164 | 0 | 804 | 2 | | | | 970 |
| C | 371 | 127 | 0 | 12 | | | | 510 |
| D | 4 | 0 | 9 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 540 | 157 | 1315 | 23 | | | | 2035 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 42 | 0 | | | | 50 |
| B | 8 | 0 | 73 | 0 | | | | 81 |
| C | 24 | 25 | 0 | 1 | | | | 50 |
| D | 1 | 0 | 2 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 32 | 117 | 1 | | | | 184 |

HGV

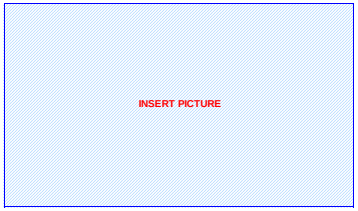
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 153 | 108 | 5 | | | | 266 |
| B | 137 | 0 | 193 | 0 | | | | 329 |
| C | 47 | 136 | 0 | 5 | | | | 188 |
| D | 0 | 0 | 2 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 183 | 289 | 302 | 11 | | | | 785 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Fowler Welch (Pilsworth Road / Moss Hall Road - North)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60241 | 60246 | 60246 | 60241 | *Moss Hall Rd NB* |
| B | 60000 | 60213 | 60213 | 60000 | *Pilsworth Road* |
| C | 60228 | 2038 | 2038 | 60228 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 819 | 234 | | | | | 1053 |
| B | 1168 | 0 | 60 | | | | | 1228 |
| C | 360 | 111 | 0 | | | | | 471 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1528 | 930 | 294 | | | | | 2752 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 355 | 40 | | | | | 395 |
| B | 760 | 0 | 52 | | | | | 812 |
| C | 217 | 87 | 0 | | | | | 304 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 977 | 442 | 92 | | | | | 1511 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 88 | 61 | | | | | 149 |
| B | 88 | 0 | 7 | | | | | 95 |
| C | 78 | 17 | 0 | | | | | 95 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 166 | 105 | 68 | | | | | 339 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 376 | 133 | | | | | 509 |
| B | 320 | 0 | 1 | | | | | 321 |
| C | 65 | 7 | 0 | | | | | 72 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 385 | 383 | 134 | | | | | 902 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 951 | 442 | | | | | 1393 |
| B | 921 | 0 | 47 | | | | | 968 |
| C | 86 | 105 | 0 | | | | | 191 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1007 | 1056 | 489 | | | | | 2552 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 406 | 276 | | | | | 682 |
| B | 424 | 0 | 44 | | | | | 468 |
| C | 13 | 85 | 0 | | | | | 98 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 437 | 491 | 320 | | | | | 1248 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 126 | 74 | | | | | 200 |
| B | 115 | 0 | 3 | | | | | 118 |
| C | 32 | 15 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 147 | 141 | 77 | | | | | 365 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 419 | 92 | | | | | 511 |
| B | 382 | 0 | 0 | | | | | 382 |
| C | 41 | 5 | 0 | | | | | 46 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 423 | 424 | 92 | | | | | 939 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1210 | 525 | | | | | 1735 |
| B | 720 | 0 | 172 | | | | | 892 |
| C | 30 | 137 | 0 | | | | | 167 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 750 | 1347 | 697 | | | | | 2794 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 879 | 436 | | | | | 1315 |
| B | 503 | 0 | 149 | | | | | 652 |
| C | 9 | 122 | 0 | | | | | 131 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 512 | 1001 | 585 | | | | | 2098 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 40 | | | | | 118 |
| B | 46 | 0 | 21 | | | | | 67 |
| C | 4 | 14 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 92 | 61 | | | | | 203 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 253 | 49 | | | | | 302 |
| B | 171 | 0 | 2 | | | | | 173 |
| C | 17 | 1 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 188 | 254 | 51 | | | | | 493 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | *TC 11 - Pilsworth Rd E* |
| B | 3001 | 60238 | 60239 | 3000 | *JTC 11 - M66 SB Off* |
| C | 60213 | 60000 | 60000 | 60213 | *TC 11 - Pilsworth Rd W* |
| D | 60236 | 4918 | 60240 | 2998 | *JTC 11 - M66 NB Off* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 390 | 459 | 234 | | | | 1083 |
| B | 508 | 0 | 343 | 0 | | | | 851 |
| C | 207 | 218 | 0 | 504 | | | | 929 |
| D | 780 | 0 | 427 | 0 | | | | 1207 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1495 | 608 | 1229 | 738 | | | | 4070 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 278 | 335 | 155 | | | | 768 |
| B | 415 | 0 | 314 | 0 | | | | 729 |
| C | 144 | 172 | 0 | 125 | | | | 441 |
| D | 630 | 0 | 164 | 0 | | | | 794 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1189 | 450 | 813 | 280 | | | | 2732 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 50 | 60 | | | | 171 |
| B | 58 | 0 | 14 | 0 | | | | 72 |
| C | 23 | 26 | 0 | 56 | | | | 105 |
| D | 94 | 0 | 31 | 0 | | | | 125 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 175 | 87 | 95 | 116 | | | | 473 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 74 | 19 | | | | 144 |
| B | 35 | 0 | 15 | 0 | | | | 50 |
| C | 40 | 20 | 0 | 323 | | | | 383 |
| D | 56 | 0 | 232 | 0 | | | | 288 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 131 | 71 | 321 | 342 | | | | 865 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 480 | 366 | 217 | | | | 1063 |
| B | 335 | 0 | 235 | 0 | | | | 570 |
| C | 285 | 119 | 0 | 651 | | | | 1055 |
| D | 416 | 0 | 366 | 0 | | | | 782 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1036 | 599 | 967 | 868 | | | | 3470 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 369 | 230 | 170 | | | | 769 |
| B | 248 | 0 | 186 | 0 | | | | 434 |
| C | 205 | 74 | 0 | 210 | | | | 489 |
| D | 299 | 0 | 51 | 0 | | | | 350 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 752 | 443 | 467 | 380 | | | | 2042 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 64 | 39 | 42 | | | | 145 |
| B | 45 | 0 | 29 | 0 | | | | 74 |
| C | 39 | 19 | 0 | 84 | | | | 142 |
| D | 59 | 0 | 50 | 0 | | | | 109 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 143 | 83 | 118 | 126 | | | | 470 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 97 | 5 | | | | 149 |
| B | 42 | 0 | 20 | 0 | | | | 62 |
| C | 41 | 26 | 0 | 357 | | | | 424 |
| D | 58 | 0 | 265 | 0 | | | | 323 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 141 | 73 | 382 | 362 | | | | 958 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 517 | 418 | 200 | | | | 1135 |
| B | 300 | 0 | 171 | 0 | | | | 471 |
| C | 380 | 197 | 0 | 772 | | | | 1349 |
| D | 550 | 0 | 304 | 0 | | | | 854 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1230 | 714 | 893 | 972 | | | | 3809 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 471 | 364 | 181 | | | | 1016 |
| B | 263 | 0 | 143 | 0 | | | | 406 |
| C | 319 | 177 | 0 | 507 | | | | 1003 |
| D | 420 | 0 | 145 | 0 | | | | 565 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1002 | 648 | 652 | 688 | | | | 2990 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 26 | 17 | | | | 73 |
| B | 28 | 0 | 14 | 0 | | | | 42 |
| C | 30 | 17 | 0 | 45 | | | | 92 |
| D | 66 | 0 | 27 | 0 | | | | 93 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 124 | 47 | 67 | 62 | | | | 300 |

MODELLED — HGV

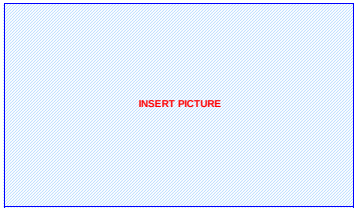
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 28 | 2 | | | | 46 |
| B | 9 | 0 | 14 | 0 | | | | 23 |
| C | 31 | 3 | 0 | 220 | | | | 254 |
| D | 64 | 0 | 132 | 0 | | | | 196 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 19 | 174 | 222 | | | | 519 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N12 - M66 NB Of |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 140 | 110 | 420 | 1434 | 53 | | 2157 |
| B | 298 | 0 | 26 | 222 | 0 | 37 | | 583 |
| C | 63 | 3 | 0 | 10 | 23 | 0 | | 99 |
| D | 658 | 192 | 28 | 0 | 382 | 74 | | 1334 |
| E | 1483 | 0 | 67 | 232 | 0 | 105 | | 1887 |
| F | 35 | 6 | 1 | 35 | 40 | 0 | | 117 |
| G | | | | | | | | |
| TOTAL | 2537 | 341 | 232 | 919 | 1879 | 269 | | 6177 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 108 | 45 | 278 | 1119 | 49 | | 1599 |
| B | 276 | 0 | 24 | 153 | 0 | 31 | | 484 |
| C | 11 | 1 | 0 | 3 | 9 | 0 | | 24 |
| D | 509 | 123 | 22 | 0 | 273 | 41 | | 968 |
| E | 1139 | 0 | 52 | 126 | 0 | 97 | | 1414 |
| F | 28 | 4 | 1 | 19 | 30 | 0 | | 82 |
| G | | | | | | | | |
| TOTAL | 1963 | 236 | 144 | 579 | 1431 | 218 | | 4571 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 33 | 85 | 200 | 3 | | 347 |
| B | 17 | 0 | 2 | 43 | 0 | 1 | | 63 |
| C | 37 | 2 | 0 | 5 | 9 | 0 | | 53 |
| D | 62 | 33 | 4 | 0 | 58 | 12 | | 169 |
| E | 166 | 0 | 7 | 71 | 0 | 5 | | 249 |
| F | 2 | 1 | 0 | 5 | 5 | 0 | | 13 |
| G | | | | | | | | |
| TOTAL | 284 | 62 | 46 | 209 | 272 | 21 | | 894 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 32 | 57 | 115 | 1 | | 211 |
| B | 5 | 0 | 0 | 26 | 0 | 5 | | 36 |
| C | 15 | 0 | 0 | 2 | 5 | 0 | | 22 |
| D | 87 | 36 | 2 | 0 | 51 | 21 | | 197 |
| E | 178 | 0 | 8 | 35 | 0 | 3 | | 224 |
| F | 5 | 1 | 0 | 11 | 5 | 0 | | 22 |
| G | | | | | | | | |
| TOTAL | 290 | 43 | 42 | 131 | 176 | 30 | | 712 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 163 | 114 | 269 | 1381 | 32 | | 1959 |
| B | 208 | 0 | 22 | 175 | 0 | 12 | | 417 |
| C | 83 | 13 | 0 | 14 | 37 | 1 | | 148 |
| D | 575 | 157 | 36 | 0 | 137 | 63 | | 968 |
| E | 1247 | 0 | 51 | 273 | 16 | 48 | | 1635 |
| F | 47 | 14 | 2 | 37 | 56 | 0 | | 156 |
| G | | | | | | | | |
| TOTAL | 2160 | 347 | 225 | 768 | 1627 | 156 | | 5283 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 118 | 57 | 167 | 1014 | 27 | | 1383 |
| B | 170 | 0 | 17 | 114 | 0 | 9 | | 310 |
| C | 29 | 8 | 0 | 9 | 24 | 1 | | 71 |
| D | 416 | 97 | 24 | 0 | 57 | 30 | | 624 |
| E | 884 | 0 | 39 | 169 | 16 | 36 | | 1144 |
| F | 42 | 11 | 2 | 21 | 43 | 0 | | 119 |
| G | | | | | | | | |
| TOTAL | 1541 | 234 | 139 | 480 | 1154 | 103 | | 3651 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 38 | 50 | 210 | 3 | | 325 |
| B | 21 | 0 | 3 | 27 | 0 | 1 | | 52 |
| C | 44 | 3 | 0 | 4 | 8 | 0 | | 59 |
| D | 81 | 35 | 7 | 0 | 30 | 14 | | 167 |
| E | 211 | 0 | 8 | 60 | 0 | 5 | | 284 |
| F | 4 | 2 | 0 | 9 | 5 | 0 | | 20 |
| G | | | | | | | | |
| TOTAL | 361 | 64 | 56 | 150 | 253 | 23 | | 907 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 19 | 52 | 157 | 2 | | 251 |
| B | 17 | 0 | 2 | 34 | 0 | 2 | | 55 |
| C | 10 | 2 | 0 | 1 | 5 | 0 | | 18 |
| D | 78 | 25 | 5 | 0 | 50 | 19 | | 177 |
| E | 152 | 0 | 4 | 44 | 0 | 7 | | 207 |
| F | 1 | 1 | 0 | 7 | 8 | 0 | | 17 |
| G | | | | | | | | |
| TOTAL | 258 | 49 | 30 | 138 | 220 | 30 | | 725 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 251 | 35 | 391 | 1418 | 42 | | 2137 |
| B | 291 | 0 | 6 | 153 | 0 | 14 | | 464 |
| C | 53 | 13 | 0 | 18 | 50 | 1 | | 135 |
| D | 722 | 176 | 14 | 0 | 203 | 65 | | 1180 |
| E | 1428 | 0 | 20 | 307 | 0 | 62 | | 1817 |
| F | 44 | 21 | 0 | 51 | 120 | 0 | | 236 |
| G | | | | | | | | |
| TOTAL | 2538 | 461 | 75 | 920 | 1791 | 184 | | 5969 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 236 | 18 | 353 | 1291 | 40 | | 1938 |
| B | 271 | 0 | 5 | 132 | 0 | 13 | | 421 |
| C | 24 | 12 | 0 | 16 | 46 | 1 | | 99 |
| D | 621 | 154 | 12 | 0 | 158 | 54 | | 999 |
| E | 1252 | 0 | 16 | 260 | 0 | 49 | | 1577 |
| F | 40 | 20 | 0 | 46 | 111 | 0 | | 217 |
| G | | | | | | | | |
| TOTAL | 2208 | 422 | 51 | 807 | 1606 | 157 | | 5251 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 15 | 21 | 101 | 2 | | 153 |
| B | 17 | 0 | 1 | 18 | 0 | 1 | | 37 |
| C | 25 | 1 | 0 | 2 | 4 | 0 | | 32 |
| D | 53 | 19 | 2 | 0 | 24 | 10 | | 108 |
| E | 135 | 0 | 4 | 32 | 0 | 6 | | 177 |
| F | 3 | 1 | 0 | 4 | 3 | 0 | | 11 |
| G | | | | | | | | |
| TOTAL | 233 | 35 | 22 | 77 | 132 | 19 | | 518 |

MODELLED — HGV — To Arm / From Arm

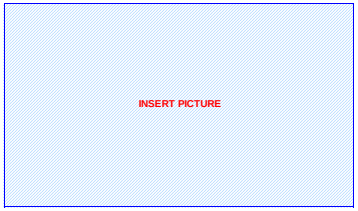
| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 17 | 26 | 0 | | 46 |
| B | 3 | 0 | 0 | 3 | 0 | 0 | | 6 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 48 | 3 | 0 | 0 | 21 | 1 | | 73 |
| E | 41 | 0 | 0 | 15 | 0 | 7 | | 63 |
| F | 1 | 0 | 0 | 1 | 6 | 0 | | 8 |
| G | | | | | | | | |
| TOTAL | 97 | 4 | 2 | 36 | 53 | 8 | | 200 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | Heywood Old Road NE |
| B | 60074 | 2478 | 2478 | 60074 | Whittle Lane |
| C | 4730 | 2478 | 2478 | 4730 | Heywood Old Road SE |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 211 | 364 | | | | | 575 |
| B | 6 | 0 | 79 | | | | | 86 |
| C | 551 | 328 | 0 | | | | | 878 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 557 | 539 | 443 | | | | | 1539 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 184 | 279 | | | | | 463 |
| B | 1 | 0 | 38 | | | | | 40 |
| C | 420 | 270 | 0 | | | | | 690 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 421 | 454 | 317 | | | | | 1193 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 38 | | | | | 65 |
| B | 5 | 0 | 41 | | | | | 46 |
| C | 106 | 57 | 0 | | | | | 164 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 111 | 84 | 79 | | | | | 275 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 45 | | | | | 45 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 0 | 45 | | | | | 70 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 493 | | | | | 583 |
| B | 69 | 0 | 240 | | | | | 309 |
| C | 312 | 175 | 0 | | | | | 487 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 382 | 265 | 733 | | | | | 1380 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 333 | | | | | 385 |
| B | 46 | 0 | 170 | | | | | 216 |
| C | 237 | 111 | 0 | | | | | 348 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 283 | 163 | 503 | | | | | 948 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 74 | | | | | 113 |
| B | 24 | 0 | 70 | | | | | 94 |
| C | 38 | 64 | 0 | | | | | 102 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 62 | 102 | 145 | | | | | 308 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 83 | | | | | 83 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 37 | 0 | 0 | | | | | 37 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 37 | 0 | 83 | | | | | 121 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.98 | | | | | 1.98 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 739 | | | | | 763 |
| B | 94 | 0 | 302 | | | | | 396 |
| C | 388 | 43 | 0 | | | | | 432 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 483 | 67 | 1041 | | | | | 1590 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 629 | | | | | 648 |
| B | 88 | 0 | 283 | | | | | 371 |
| C | 343 | 34 | 0 | | | | | 377 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 430 | 53 | 912 | | | | | 1396 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 85 | | | | | 89 |
| B | 6 | 0 | 19 | | | | | 26 |
| C | 37 | 9 | 0 | | | | | 46 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 43 | 13 | 104 | | | | | 161 |

MODELLED — HGV

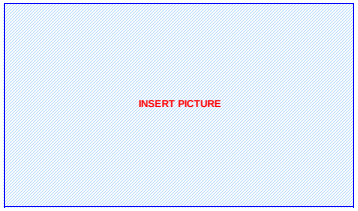
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 23 | | | | | 23 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 9 | 0 | 0 | | | | | 9 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 9 | 0 | 23 | | | | | 32 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.91 | | | | | 1.91 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Heywood Old Road / Langley Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | Heywood Old Road SB |
| B | 15238 | 4730 | 4730 | 15238 | Langley Lane |
| C | 2478 | 4730 | 4730 | 2478 | Heywood Old Road NB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 96 | 464 | | | | | 560 |
| B | 111 | 0 | 414 | | | | | 525 |
| C | 332 | 111 | 0 | | | | | 443 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 443 | 207 | 878 | | | | | 1529 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 82 | 348 | | | | | 429 |
| B | 102 | 0 | 343 | | | | | 445 |
| C | 236 | 81 | 0 | | | | | 317 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 338 | 163 | 690 | | | | | 1191 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 100 | | | | | 107 |
| B | 5 | 0 | 64 | | | | | 69 |
| C | 52 | 28 | 0 | | | | | 79 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 34 | 164 | | | | | 254 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 17 | | | | | 22 |
| B | 4 | 0 | 8 | | | | | 12 |
| C | 45 | 0 | 0 | | | | | 45 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 6 | 24 | | | | | 79 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 55 | 306 | | | | | 361 |
| B | 72 | 0 | 181 | | | | | 253 |
| C | 533 | 200 | 0 | | | | | 733 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 606 | 255 | 487 | | | | | 1347 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 210 | | | | | 257 |
| B | 58 | 0 | 138 | | | | | 196 |
| C | 359 | 144 | 0 | | | | | 503 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 417 | 191 | 348 | | | | | 956 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 59 | | | | | 63 |
| B | 6 | 0 | 43 | | | | | 49 |
| C | 97 | 48 | 0 | | | | | 145 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 103 | 52 | 102 | | | | | 257 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 37 | | | | | 39 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 78 | 6 | 0 | | | | | 83 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 83 | 8 | 37 | | | | | 128 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 3.97 | 0 | | | | | 5.96 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 102 | 280 | | | | | 381 |
| B | 86 | 0 | 152 | | | | | 238 |
| C | 759 | 282 | 0 | | | | | 1041 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 845 | 383 | 432 | | | | | 1660 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 91 | 241 | | | | | 331 |
| B | 79 | 0 | 136 | | | | | 215 |
| C | 666 | 246 | 0 | | | | | 912 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 745 | 337 | 377 | | | | | 1458 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 30 | | | | | 39 |
| B | 4 | 0 | 16 | | | | | 20 |
| C | 71 | 33 | 0 | | | | | 104 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 41 | 46 | | | | | 162 |

MODELLED — HGV

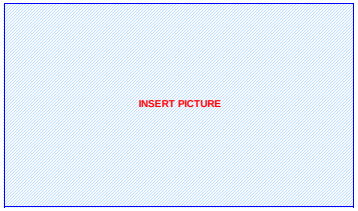
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 8 | | | | | 9 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 23 | 1 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 23 | 2 | 9 | | | | | 34 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 3.84 | 0 | | | | | 5.82 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Langley Lane / A6046 Hollin Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 231 | 873 | | | | | 1103 |
| B | 109 | 0 | 97 | | | | | 206 |
| C | 639 | 16 | 0 | | | | | 655 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 748 | 247 | 969 | | | | | 1964 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 160 | 631 | | | | | 792 |
| B | 75 | 0 | 94 | | | | | 168 |
| C | 399 | 15 | 0 | | | | | 414 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 474 | 175 | 725 | | | | | 1374 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 138 | | | | | 201 |
| B | 30 | 0 | 2 | | | | | 31 |
| C | 128 | 1 | 0 | | | | | 129 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 158 | 63 | 140 | | | | | 361 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 84 | | | | | 91 |
| B | 1 | 0 | 1 | | | | | 2 |
| C | 82 | 0 | 0 | | | | | 83 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 83 | 8 | 85 | | | | | 176 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 20 | | | | | 20 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 0 | 20 | | | | | 53 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 107 | 894 | | | | | 1001 |
| B | 112 | 0 | 7 | | | | | 119 |
| C | 624 | 16 | 0 | | | | | 641 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 736 | 123 | 901 | | | | | 1761 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 545 | | | | | 606 |
| B | 58 | 0 | 7 | | | | | 65 |
| C | 425 | 16 | 0 | | | | | 440 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 483 | 77 | 551 | | | | | 1111 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 159 | | | | | 202 |
| B | 45 | 0 | 0 | | | | | 45 |
| C | 106 | 0 | 0 | | | | | 106 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 150 | 44 | 159 | | | | | 354 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 171 | | | | | 171 |
| B | 5 | 0 | 0 | | | | | 5 |
| C | 70 | 0 | 0 | | | | | 70 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 1 | 171 | | | | | 247 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.68 | 1.99 | 19.87 | | | | | 49.54 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 102 | 933 | | | | | 1035 |
| B | 99 | 0 | 1 | | | | | 101 |
| C | 764 | 51 | 0 | | | | | 815 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 863 | 154 | 934 | | | | | 1951 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 85 | 747 | | | | | 832 |
| B | 70 | 0 | 1 | | | | | 71 |
| C | 599 | 51 | 0 | | | | | 650 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 670 | 135 | 748 | | | | | 1553 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 104 | | | | | 119 |
| B | 24 | 0 | 0 | | | | | 25 |
| C | 100 | 1 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 124 | 16 | 104 | | | | | 244 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 55 | | | | | 55 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 41 | 0 | 0 | | | | | 41 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 42 | 0 | 55 | | | | | 97 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 27 | | | | | 29 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 23 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.16 | 1.95 | 27.34 | | | | | 56.45 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Coronation Avenue

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 126 | 351 | | | | | 477 |
| B | 378 | 0 | 68 | | | | | 445 |
| C | 504 | 189 | 0 | | | | | 694 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 882 | 315 | 419 | | | | | 1616 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 253 | | | | | 253 |
| B | 244 | 0 | 40 | | | | | 284 |
| C | 442 | 145 | 0 | | | | | 587 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 686 | 145 | 294 | | | | | 1125 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 74 | | | | | 74 |
| B | 43 | 0 | 19 | | | | | 62 |
| C | 37 | 38 | 0 | | | | | 75 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 80 | 38 | 92 | | | | | 210 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 96 | 20 | | | | | 117 |
| B | 71 | 0 | 9 | | | | | 80 |
| C | 25 | 7 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 103 | 29 | | | | | 229 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 4 | | | | | 33 |
| B | 19 | 0 | 0 | | | | | 19 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 29 | 4 | | | | | 53 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 101 | 284 | | | | | 385 |
| B | 225 | 0 | 73 | | | | | 298 |
| C | 424 | 121 | 0 | | | | | 545 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 649 | 222 | 357 | | | | | 1228 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 190 | | | | | 190 |
| B | 82 | 0 | 20 | | | | | 103 |
| C | 285 | 76 | 0 | | | | | 362 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 368 | 76 | 210 | | | | | 654 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 54 | | | | | 54 |
| B | 13 | 0 | 44 | | | | | 57 |
| C | 95 | 31 | 0 | | | | | 126 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 108 | 31 | 98 | | | | | 237 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 77 | 35 | | | | | 112 |
| B | 110 | 0 | 9 | | | | | 119 |
| C | 41 | 13 | 0 | | | | | 55 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 151 | 91 | 43 | | | | | 285 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.76 | 23.76 | 5.94 | | | | | 51.46 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 345 | | | | | 397 |
| B | 396 | 0 | 22 | | | | | 417 |
| C | 556 | 98 | 0 | | | | | 654 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 951 | 151 | 367 | | | | | 1469 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 283 | | | | | 283 |
| B | 297 | 0 | 6 | | | | | 303 |
| C | 477 | 84 | 0 | | | | | 561 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 774 | 84 | 289 | | | | | 1147 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 39 | | | | | 39 |
| B | 37 | 0 | 15 | | | | | 51 |
| C | 50 | 13 | 0 | | | | | 63 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 86 | 13 | 53 | | | | | 153 |

MODELLED — HGV

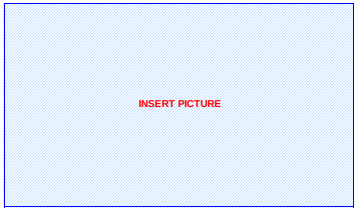
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 19 | | | | | 48 |
| B | 35 | 0 | 1 | | | | | 36 |
| C | 27 | 1 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 62 | 30 | 21 | | | | | 113 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 4 | | | | | 27 |
| B | 27 | 0 | 0 | | | | | 27 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.97 | 23.44 | 3.91 | | | | | 56.32 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / Hollins Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 386 | 486 | | | | | 872 |
| B | 279 | 0 | 61 | | | | | 339 |
| C | 767 | 69 | 0 | | | | | 836 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1046 | 455 | 546 | | | | | 2048 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 333 | 390 | | | | | 723 |
| B | 203 | 0 | 50 | | | | | 253 |
| C | 623 | 50 | 0 | | | | | 673 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 825 | 383 | 440 | | | | | 1648 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 61 | | | | | 106 |
| B | 45 | 0 | 5 | | | | | 49 |
| C | 84 | 11 | 0 | | | | | 95 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 129 | 56 | 66 | | | | | 250 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 35 | | | | | 39 |
| B | 27 | 0 | 0 | | | | | 28 |
| C | 60 | 2 | 0 | | | | | 62 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 88 | 6 | 35 | | | | | 129 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 249 | 524 | | | | | 773 |
| B | 198 | 0 | 42 | | | | | 240 |
| C | 614 | 48 | 0 | | | | | 662 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 812 | 297 | 566 | | | | | 1676 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 208 | 385 | | | | | 594 |
| B | 148 | 0 | 28 | | | | | 176 |
| C | 453 | 33 | 0 | | | | | 486 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 602 | 241 | 413 | | | | | 1256 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 80 | | | | | 111 |
| B | 32 | 0 | 8 | | | | | 40 |
| C | 91 | 9 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 123 | 40 | 88 | | | | | 251 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 59 | | | | | 66 |
| B | 13 | 0 | 0 | | | | | 14 |
| C | 70 | 0 | 0 | | | | | 70 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 83 | 8 | 59 | | | | | 150 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 3.99 | 7.96 | 5.99 | | | | | 17.94 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 396 | 576 | | | | | 972 |
| B | 183 | 0 | 40 | | | | | 222 |
| C | 552 | 66 | 0 | | | | | 618 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 734 | 462 | 615 | | | | | 1812 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 349 | 501 | | | | | 851 |
| B | 155 | 0 | 29 | | | | | 184 |
| C | 477 | 48 | 0 | | | | | 525 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 633 | 397 | 530 | | | | | 1560 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 53 | | | | | 92 |
| B | 18 | 0 | 5 | | | | | 23 |
| C | 44 | 12 | 0 | | | | | 56 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 62 | 51 | 58 | | | | | 171 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 22 | | | | | 25 |
| B | 7 | 0 | 0 | | | | | 8 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 4 | 22 | | | | | 63 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 9.78 | 5.93 | | | | | 17.69 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / A56 Manchester Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 632 | 636 | | | | | 1268 |
| B | 429 | 0 | 118 | | | | | 546 |
| C | 974 | 204 | 0 | | | | | 1178 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1402 | 836 | 754 | | | | | 2992 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 521 | 510 | | | | | 1031 |
| B | 345 | 0 | 95 | | | | | 440 |
| C | 851 | 152 | 0 | | | | | 1003 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1197 | 673 | 604 | | | | | 2474 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 70 | | | | | 132 |
| B | 53 | 0 | 12 | | | | | 66 |
| C | 75 | 33 | 0 | | | | | 108 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 128 | 95 | 82 | | | | | 306 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 36 | | | | | 79 |
| B | 24 | 0 | 11 | | | | | 35 |
| C | 27 | 19 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 51 | 62 | 47 | | | | | 161 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 6 | 20 | | | | | 51 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 419 | 696 | | | | | 1115 |
| B | 404 | 0 | 162 | | | | | 566 |
| C | 763 | 243 | 0 | | | | | 1006 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1167 | 662 | 858 | | | | | 2688 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 315 | 551 | | | | | 866 |
| B | 310 | 0 | 103 | | | | | 413 |
| C | 599 | 171 | 0 | | | | | 770 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 909 | 486 | 654 | | | | | 2049 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 86 | | | | | 147 |
| B | 55 | 0 | 33 | | | | | 88 |
| C | 105 | 39 | 0 | | | | | 144 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 160 | 100 | 119 | | | | | 379 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 39 | | | | | 76 |
| B | 34 | 0 | 25 | | | | | 59 |
| C | 37 | 34 | 0 | | | | | 70 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 71 | 70 | 64 | | | | | 205 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.88 | 5.98 | 19.93 | | | | | 53.79 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 457 | 887 | | | | | 1344 |
| B | 497 | 0 | 119 | | | | | 615 |
| C | 902 | 161 | 0 | | | | | 1062 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1398 | 618 | 1006 | | | | | 3022 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 398 | 789 | | | | | 1187 |
| B | 426 | 0 | 104 | | | | | 530 |
| C | 794 | 127 | 0 | | | | | 921 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1220 | 525 | 893 | | | | | 2638 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 68 | | | | | 103 |
| B | 46 | 0 | 12 | | | | | 58 |
| C | 75 | 22 | 0 | | | | | 97 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 56 | 80 | | | | | 257 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 10 | | | | | 28 |
| B | 19 | 0 | 3 | | | | | 22 |
| C | 13 | 12 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 30 | 12 | | | | | 75 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 25.33 | 5.96 | 19.87 | | | | | 51.16 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 26859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1342 | 3463 | 883 | | | | 5688 |
| B | 604 | 35 | 1023 | 4883 | | | | 6545 |
| C | 3435 | 396 | 0 | 1166 | | | | 4997 |
| D | 1222 | 5305 | 2302 | 0 | | | | 8829 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5261 | 7078 | 6788 | 6932 | | | | 26059 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 975 | 2226 | 472 | | | | 3673 |
| B | 540 | 0 | 782 | 2515 | | | | 3837 |
| C | 2306 | 277 | 0 | 623 | | | | 3206 |
| D | 611 | 2591 | 1345 | 0 | | | | 4547 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3457 | 3843 | 4353 | 3610 | | | | 15263 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 189 | 716 | 142 | | | | 1047 |
| B | 63 | 2 | 81 | 877 | | | | 1023 |
| C | 540 | 85 | 0 | 377 | | | | 1002 |
| D | 338 | 1007 | 547 | 0 | | | | 1892 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 941 | 1283 | 1344 | 1396 | | | | 4964 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 178 | 521 | 269 | | | | 968 |
| B | 1 | 33 | 160 | 1491 | | | | 1685 |
| C | 589 | 34 | 0 | 166 | | | | 789 |
| D | 273 | 1707 | 410 | 0 | | | | 2390 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 863 | 1952 | 1091 | 1926 | | | | 5832 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1053 | 2024 | 1096 | | | | 4173 |
| B | 539 | 67 | 556 | 5184 | | | | 6346 |
| C | 2719 | 319 | 0 | 883 | | | | 3921 |
| D | 1212 | 5293 | 2062 | 0 | | | | 8567 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4470 | 6732 | 4642 | 7163 | | | | 23007 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 788 | 1205 | 429 | | | | 2422 |
| B | 517 | 0 | 403 | 2532 | | | | 3452 |
| C | 1749 | 185 | 0 | 396 | | | | 2330 |
| D | 413 | 2450 | 1075 | 0 | | | | 3938 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2679 | 3423 | 2683 | 3357 | | | | 12142 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 161 | 438 | 234 | | | | 833 |
| B | 22 | 1 | 87 | 1090 | | | | 1200 |
| C | 509 | 65 | 0 | 256 | | | | 830 |
| D | 279 | 1022 | 460 | 0 | | | | 1761 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 810 | 1249 | 985 | 1580 | | | | 4624 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 104 | 381 | 433 | | | | 918 |
| B | 0 | 66 | 66 | 1562 | | | | 1694 |
| C | 461 | 69 | 0 | 231 | | | | 761 |
| D | 520 | 1821 | 527 | 0 | | | | 2868 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 981 | 2060 | 974 | 2226 | | | | 6241 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1164 | 2713 | 1159 | | | | 5036 |
| B | 356 | 73 | 820 | 5281 | | | | 6530 |
| C | 3926 | 400 | 0 | 910 | | | | 5236 |
| D | 1473 | 5302 | 2383 | 0 | | | | 9158 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5755 | 6939 | 5916 | 7350 | | | | 25960 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1053 | 2248 | 705 | | | | 4006 |
| B | 338 | 1 | 773 | 3517 | | | | 4629 |
| C | 3154 | 310 | 0 | 618 | | | | 4082 |
| D | 991 | 3627 | 1693 | 0 | | | | 6311 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4483 | 4991 | 4714 | 4840 | | | | 19028 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 354 | 177 | | | | 621 |
| B | 18 | 3 | 33 | 765 | | | | 819 |
| C | 500 | 79 | 0 | 249 | | | | 828 |
| D | 253 | 746 | 415 | 0 | | | | 1414 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 771 | 918 | 802 | 1191 | | | | 3682 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 111 | 277 | | | | 409 |
| B | 0 | 69 | 14 | 999 | | | | 1082 |
| C | 272 | 11 | 0 | 43 | | | | 326 |
| D | 229 | 929 | 275 | 0 | | | | 1433 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 501 | 1030 | 400 | 1319 | | | | 3250 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | JTC 20 - A627 SB |
| B | 2727 | 2724 | 2723 | 2725 | JTC 20 - M62 WB |
| C | 2768 | 4932 | 4929 | 2767 | JTC 20 - A627 NB |
| D | 2719 | 2721 | 2722 | 2720 | JTC 20 - M62 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 273 | 1007 | 893 | | | | 2173 |
| B | 223 | 0 | 1177 | 4826 | | | | 6226 |
| C | 1053 | 832 | 0 | 1062 | | | | 2947 |
| D | 895 | 5456 | 1051 | 0 | | | | 7402 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2171 | 6561 | 3235 | 6781 | | | | 18748 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 202 | 771 | 538 | | | | 1511 |
| B | 189 | 0 | 796 | 2478 | | | | 3463 |
| C | 864 | 455 | 0 | 685 | | | | 2004 |
| D | 513 | 2747 | 706 | 0 | | | | 3966 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1566 | 3404 | 2273 | 3701 | | | | 10944 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 102 | 136 | | | | 267 |
| B | 27 | 0 | 183 | 752 | | | | 962 |
| C | 119 | 102 | 0 | 189 | | | | 410 |
| D | 142 | 977 | 199 | 0 | | | | 1318 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 288 | 1108 | 484 | 1077 | | | | 2957 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 134 | 219 | | | | 395 |
| B | 7 | 0 | 198 | 1596 | | | | 1801 |
| C | 70 | 275 | 0 | 188 | | | | 533 |
| D | 240 | 1732 | 146 | 0 | | | | 2118 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 317 | 2049 | 478 | 2003 | | | | 4847 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 137 | 828 | 732 | | | | 1697 |
| B | 253 | 0 | 961 | 4856 | | | | 6070 |
| C | 330 | 686 | 0 | 841 | | | | 1857 |
| D | 773 | 5590 | 788 | 0 | | | | 7151 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1356 | 6413 | 2577 | 6429 | | | | 16775 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 591 | 407 | | | | 1076 |
| B | 93 | 0 | 448 | 2491 | | | | 3032 |
| C | 155 | 327 | 0 | 562 | | | | 1044 |
| D | 545 | 2621 | 551 | 0 | | | | 3717 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 793 | 3026 | 1590 | 3460 | | | | 8869 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 119 | 139 | | | | 276 |
| B | 22 | 0 | 174 | 833 | | | | 1029 |
| C | 103 | 115 | 0 | 196 | | | | 414 |
| D | 145 | 974 | 151 | 0 | | | | 1270 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 270 | 1107 | 444 | 1168 | | | | 2989 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 118 | 186 | | | | 345 |
| B | 138 | 0 | 339 | 1532 | | | | 2009 |
| C | 72 | 244 | 0 | 83 | | | | 399 |
| D | 83 | 1995 | 86 | 0 | | | | 2164 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 293 | 2280 | 543 | 1801 | | | | 4917 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 251 | 949 | 1067 | | | | 2267 |
| B | 171 | 0 | 1124 | 4466 | | | | 5761 |
| C | 993 | 892 | 0 | 1223 | | | | 3108 |
| D | 609 | 5498 | 1061 | 0 | | | | 7168 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1773 | 6641 | 3134 | 6756 | | | | 18304 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 195 | 711 | 718 | | | | 1624 |
| B | 118 | 0 | 870 | 2900 | | | | 3888 |
| C | 860 | 690 | 0 | 982 | | | | 2532 |
| D | 486 | 3813 | 918 | 0 | | | | 5217 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1464 | 4698 | 2499 | 4600 | | | | 13261 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 119 | 133 | | | | 278 |
| B | 12 | 0 | 100 | 570 | | | | 682 |
| C | 104 | 113 | 0 | 149 | | | | 366 |
| D | 95 | 728 | 106 | 0 | | | | 929 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 211 | 867 | 325 | 852 | | | | 2255 |

HGV

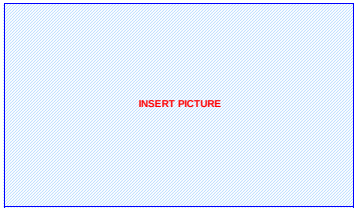
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 119 | 216 | | | | 365 |
| B | 41 | 0 | 154 | 996 | | | | 1191 |
| C | 29 | 89 | 0 | 92 | | | | 210 |
| D | 28 | 957 | 37 | 0 | | | | 1022 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 98 | 1076 | 310 | 1304 | | | | 2788 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J19




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | JTC 21 - M60 SB |
| B | 14141 | 5666 | 5093 | 14141 | JTC 21 - A576 WB |
| C | 5668 | 5665 | 5667 | 5669 | JTC 21 - M60 NB |
| D | 3414 | 5096 | 5095 | 3414 | JTC 21 - A576 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 643 | 0 | 949 | | | | 1592 |
| B | 457 | 0 | 291 | 440 | | | | 1188 |
| C | 0 | 284 | 25 | 562 | | | | 871 |
| D | 531 | 294 | 794 | 0 | | | | 1619 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 988 | 1221 | 1110 | 1951 | | | | 5270 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 469 | 0 | 784 | | | | 1253 |
| B | 314 | 0 | 183 | 380 | | | | 877 |
| C | 0 | 190 | 22 | 464 | | | | 676 |
| D | 431 | 267 | 685 | 0 | | | | 1383 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 745 | 926 | 890 | 1628 | | | | 4189 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 100 | 0 | 77 | | | | 177 |
| B | 65 | 0 | 88 | 57 | | | | 210 |
| C | 0 | 39 | 3 | 78 | | | | 120 |
| D | 56 | 22 | 90 | 0 | | | | 168 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 161 | 181 | 212 | | | | 675 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 0 | 88 | | | | 162 |
| B | 78 | 0 | 20 | 3 | | | | 101 |
| C | 0 | 55 | 0 | 20 | | | | 75 |
| D | 44 | 5 | 19 | 0 | | | | 68 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 134 | 39 | 111 | | | | 406 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 432 | 0 | 692 | | | | 1124 |
| B | 280 | 0 | 298 | 346 | | | | 924 |
| C | 0 | 354 | 40 | 547 | | | | 941 |
| D | 598 | 479 | 669 | 0 | | | | 1746 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 878 | 1265 | 1007 | 1585 | | | | 4735 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 275 | 0 | 540 | | | | 815 |
| B | 214 | 0 | 175 | 304 | | | | 693 |
| C | 0 | 194 | 40 | 436 | | | | 670 |
| D | 400 | 416 | 520 | 0 | | | | 1336 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 614 | 885 | 735 | 1280 | | | | 3514 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 88 | 0 | 96 | | | | 184 |
| B | 40 | 0 | 56 | 37 | | | | 133 |
| C | 0 | 89 | 0 | 75 | | | | 164 |
| D | 115 | 53 | 107 | 0 | | | | 275 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 155 | 230 | 163 | 208 | | | | 756 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 69 | 0 | 56 | | | | 125 |
| B | 26 | 0 | 67 | 5 | | | | 98 |
| C | 0 | 71 | 0 | 36 | | | | 107 |
| D | 83 | 10 | 42 | 0 | | | | 135 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 109 | 150 | 109 | 97 | | | | 465 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 391 | 0 | 1177 | | | | 1568 |
| B | 255 | 0 | 207 | 589 | | | | 1051 |
| C | 5 | 362 | 4 | 510 | | | | 881 |
| D | 920 | 826 | 803 | 0 | | | | 2549 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1180 | 1579 | 1014 | 2276 | | | | 6049 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 315 | 0 | 1101 | | | | 1416 |
| B | 224 | 0 | 171 | 532 | | | | 927 |
| C | 4 | 291 | 4 | 457 | | | | 756 |
| D | 802 | 762 | 730 | 0 | | | | 2294 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1030 | 1368 | 905 | 2090 | | | | 5393 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 0 | 56 | | | | 108 |
| B | 24 | 0 | 30 | 53 | | | | 107 |
| C | 1 | 50 | 0 | 53 | | | | 104 |
| D | 100 | 63 | 66 | 0 | | | | 229 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 125 | 165 | 96 | 162 | | | | 548 |

MODELLED — HGV

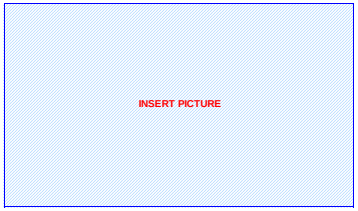
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 0 | 20 | | | | 44 |
| B | 7 | 0 | 6 | 4 | | | | 17 |
| C | 0 | 21 | 0 | 0 | | | | 21 |
| D | 18 | 1 | 7 | 0 | | | | 26 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 25 | 46 | 13 | 24 | | | | 108 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A576 Middleton Road / A6045 Heywood Old Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 2 | 509 | | | | 527 |
| B | 81 | 0 | 4 | 681 | | | | 766 |
| C | 5 | 4 | 0 | 15 | | | | 24 |
| D | 485 | 744 | 8 | 0 | | | | 1237 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 571 | 764 | 15 | 1205 | | | | 2555 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 2 | 367 | | | | 375 |
| B | 55 | 0 | 1 | 499 | | | | 555 |
| C | 3 | 3 | 0 | 12 | | | | 17 |
| D | 394 | 527 | 6 | 0 | | | | 927 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 452 | 535 | 9 | 877 | | | | 1873 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 0 | 112 | | | | 119 |
| B | 12 | 0 | 1 | 94 | | | | 107 |
| C | 1 | 1 | 0 | 3 | | | | 5 |
| D | 49 | 110 | 1 | 0 | | | | 160 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 63 | 118 | 2 | 210 | | | | 392 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 0 | 30 | | | | 33 |
| B | 15 | 0 | 2 | 70 | | | | 87 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 41 | 92 | 1 | 0 | | | | 135 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 96 | 3 | 101 | | | | 257 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 33 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 79 | 6 | 319 | | | | 404 |
| B | 99 | 0 | 6 | 615 | | | | 719 |
| C | 5 | 5 | 0 | 9 | | | | 19 |
| D | 513 | 760 | 10 | 0 | | | | 1282 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 617 | 844 | 21 | 942 | | | | 2425 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 4 | 229 | | | | 295 |
| B | 62 | 0 | 4 | 459 | | | | 524 |
| C | 3 | 3 | 0 | 7 | | | | 13 |
| D | 356 | 521 | 8 | 0 | | | | 884 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 421 | 587 | 15 | 694 | | | | 1717 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 1 | 52 | | | | 65 |
| B | 11 | 0 | 1 | 79 | | | | 91 |
| C | 1 | 1 | 0 | 1 | | | | 4 |
| D | 104 | 125 | 1 | 0 | | | | 230 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 116 | 138 | 4 | 133 | | | | 390 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 1 | 38 | | | | 43 |
| B | 26 | 0 | 1 | 59 | | | | 86 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 53 | 96 | 1 | 0 | | | | 150 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 80 | 102 | 2 | 98 | | | | 282 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.81 | 0 | 17.94 | | | | 35.75 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 3 | 401 | | | | 494 |
| B | 135 | 0 | 4 | 662 | | | | 801 |
| C | 4 | 6 | 0 | 6 | | | | 15 |
| D | 667 | 918 | 11 | 0 | | | | 1596 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 805 | 1014 | 18 | 1069 | | | | 2906 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 3 | 352 | | | | 433 |
| B | 124 | 0 | 4 | 572 | | | | 700 |
| C | 3 | 5 | 0 | 4 | | | | 12 |
| D | 575 | 784 | 9 | 0 | | | | 1368 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 702 | 867 | 15 | 929 | | | | 2513 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 0 | 42 | | | | 52 |
| B | 10 | 0 | 0 | 65 | | | | 75 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 73 | 91 | 1 | 0 | | | | 165 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 83 | 102 | 2 | 107 | | | | 294 |

MODELLED — HGV

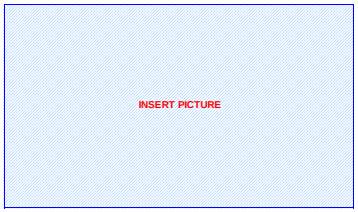
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 0 | 7 | | | | 9 |
| B | 1 | 0 | 0 | 9 | | | | 11 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 19 | 26 | 1 | 0 | | | | 46 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 20 | 28 | 1 | 17 | | | | 66 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 17 | 0 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.09 | 0 | 15.6 | | | | 32.69 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 80 | 1074 | | | | | 1154 |
| B | 0 | 0 | 1111 | | | | | 1111 |
| C | 1858 | 712 | 0 | | | | | 2569 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1858 | 792 | 2185 | | | | | 4834 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 813 | | | | | 875 |
| B | 0 | 0 | 785 | | | | | 785 |
| C | 1422 | 543 | 0 | | | | | 1964 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1422 | 605 | 1598 | | | | | 3624 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 114 | | | | | 127 |
| B | 0 | 0 | 233 | | | | | 233 |
| C | 173 | 113 | 0 | | | | | 285 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 173 | 125 | 347 | | | | | 646 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 118 | | | | | 123 |
| B | 0 | 0 | 93 | | | | | 93 |
| C | 233 | 56 | 0 | | | | | 289 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 233 | 62 | 210 | | | | | 505 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 29 | | | | | 29 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 0 | 29 | | | | | 59 |

### Model_2_Heywood_DS1a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 1016 | | | | | 1040 |
| B | 0 | 0 | 973 | | | | | 973 |
| C | 1587 | 608 | 0 | | | | | 2195 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1587 | 633 | 1988 | | | | | 4208 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 738 | | | | | 756 |
| B | 0 | 0 | 644 | | | | | 644 |
| C | 1139 | 402 | 0 | | | | | 1542 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1139 | 420 | 1381 | | | | | 2941 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 124 | | | | | 128 |
| B | 0 | 0 | 201 | | | | | 201 |
| C | 221 | 141 | 0 | | | | | 362 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 221 | 145 | 326 | | | | | 691 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 124 | | | | | 127 |
| B | 0 | 0 | 128 | | | | | 128 |
| C | 195 | 65 | 0 | | | | | 260 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 195 | 67 | 252 | | | | | 514 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.57 | 0 | 29.64 | | | | | 61.21 |

### Model_3_Heywood_DS1a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 1088 | | | | | 1093 |
| B | 0 | 0 | 1074 | | | | | 1074 |
| C | 1836 | 730 | 0 | | | | | 2567 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1836 | 734 | 2162 | | | | | 4733 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 982 | | | | | 984 |
| B | 0 | 0 | 954 | | | | | 954 |
| C | 1602 | 606 | 0 | | | | | 2208 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1602 | 608 | 1937 | | | | | 4147 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 58 | | | | | 59 |
| B | 0 | 0 | 94 | | | | | 94 |
| C | 147 | 86 | 0 | | | | | 233 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 147 | 87 | 152 | | | | | 386 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 21 | | | | | 21 |
| B | 0 | 0 | 26 | | | | | 26 |
| C | 59 | 38 | 0 | | | | | 97 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 59 | 39 | 46 | | | | | 144 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.51 | 0 | 27.17 | | | | | 55.68 |

## Run 12 - 2039 Do Something 1b - Origin-Destination Matrices

- Policy Off (Non Vision-Led)
- including all of the JPA1.1 Allocation Site
- including the M62 Access solution
- including Common Highway Mitigation Package and J18 DCO works
- Whittle Lane capacity constrained and South Heywood Link Closed

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60124 | 4924 | 4924 | 60124 | M62 J19 and Birch |
| E | 60057 | 60011 | 4924 | 2718 | C1-M62 WC1-M62 West |
| F | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizabe |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 261 | 302 | 428 | 0 | 11 | | 1002 |
| B | 242 | 0 | 170 | 0 | 0 | 485 | | 897 |
| C | 257 | 200 | 0 | 273 | 0 | 161 | | 891 |
| D | 102 | 0 | 32 | 0 | 0 | 120 | | 254 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 42 | 339 | 133 | 84 | 0 | 0 | | 598 |
| G | | | | | | | | |
| TOTAL | 643 | 800 | 637 | 785 | 0 | 777 | | 3642 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 171 | 215 | 290 | 0 | 10 | | 686 |
| B | 148 | 0 | 61 | 0 | 0 | 267 | | 476 |
| C | 203 | 164 | 0 | 183 | 0 | 114 | | 664 |
| D | 47 | 0 | 3 | 0 | 0 | 50 | | 100 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 15 | 180 | 76 | 77 | 0 | 0 | | 348 |
| G | | | | | | | | |
| TOTAL | 413 | 515 | 355 | 550 | 0 | 441 | | 2274 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 67 | 70 | 47 | 0 | 1 | | 185 |
| B | 41 | 0 | 71 | 0 | 0 | 87 | | 199 |
| C | 48 | 13 | 0 | 51 | 0 | 43 | | 155 |
| D | 22 | 0 | 2 | 0 | 0 | 14 | | 38 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 26 | 37 | 13 | 4 | 0 | 0 | | 80 |
| G | | | | | | | | |
| TOTAL | 137 | 117 | 156 | 102 | 0 | 145 | | 657 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 17 | 91 | 0 | 0 | | 131 |
| B | 53 | 0 | 38 | 0 | 0 | 131 | | 222 |
| C | 6 | 23 | 0 | 39 | 0 | 4 | | 72 |
| D | 33 | 0 | 27 | 0 | 0 | 56 | | 116 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 1 | 122 | 44 | 3 | 0 | 0 | | 170 |
| G | | | | | | | | |
| TOTAL | 93 | 168 | 126 | 133 | 0 | 191 | | 711 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 237 | 283 | 283 | 0 | 2 | | 805 |
| B | 133 | 0 | 127 | 0 | 0 | 247 | | 507 |
| C | 176 | 218 | 0 | 325 | 0 | 107 | | 826 |
| D | 183 | 0 | 77 | 0 | 0 | 124 | | 384 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 33 | 238 | 129 | 29 | 0 | 0 | | 429 |
| G | | | | | | | | |
| TOTAL | 525 | 693 | 616 | 637 | 0 | 480 | | 2951 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 148 | 235 | 144 | 0 | 1 | | 528 |
| B | 82 | 0 | 91 | 0 | 0 | 110 | | 283 |
| C | 139 | 119 | 0 | 173 | 0 | 75 | | 506 |
| D | 60 | 0 | 24 | 0 | 0 | 20 | | 104 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 15 | 95 | 78 | 20 | 0 | 0 | | 208 |
| G | | | | | | | | |
| TOTAL | 296 | 362 | 428 | 337 | 0 | 206 | | 1629 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 35 | 64 | 0 | 1 | | 154 |
| B | 15 | 0 | 26 | 0 | 0 | 48 | | 89 |
| C | 21 | 36 | 0 | 73 | 0 | 23 | | 153 |
| D | 48 | 0 | 20 | 0 | 0 | 21 | | 89 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 11 | 27 | 18 | 4 | 0 | 0 | | 60 |
| G | | | | | | | | |
| TOTAL | 95 | 117 | 99 | 141 | 0 | 93 | | 545 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 13 | 75 | 0 | 0 | | 123 |
| B | 36 | 0 | 10 | 0 | 0 | 89 | | 135 |
| C | 16 | 63 | 0 | 79 | 0 | 9 | | 167 |
| D | 75 | 0 | 33 | 0 | 0 | 83 | | 191 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 7 | 116 | 33 | 5 | 0 | 0 | | 161 |
| G | | | | | | | | |
| TOTAL | 134 | 214 | 89 | 159 | 0 | 181 | | 777 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 226 | 304 | 300 | 0 | 3 | | 833 |
| B | 188 | 0 | 274 | 0 | 0 | 342 | | 804 |
| C | 228 | 129 | 0 | 328 | 0 | 106 | | 791 |
| D | 205 | 0 | 78 | 0 | 0 | 150 | | 433 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 47 | 257 | 179 | 36 | 0 | 0 | | 519 |
| G | | | | | | | | |
| TOTAL | 668 | 612 | 835 | 664 | 0 | 601 | | 3380 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 174 | 269 | 254 | 0 | 1 | | 698 |
| B | 129 | 0 | 206 | 0 | 0 | 237 | | 572 |
| C | 206 | 118 | 0 | 246 | 0 | 100 | | 670 |
| D | 147 | 0 | 48 | 0 | 0 | 108 | | 303 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 43 | 182 | 151 | 30 | 0 | 0 | | 406 |
| G | | | | | | | | |
| TOTAL | 525 | 474 | 674 | 530 | 0 | 446 | | 2649 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 30 | 21 | 0 | 2 | | 90 |
| B | 35 | 0 | 37 | 0 | 0 | 27 | | 99 |
| C | 20 | 11 | 0 | 42 | 0 | 5 | | 78 |
| D | 27 | 0 | 15 | 0 | 0 | 10 | | 52 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 4 | 21 | 13 | 2 | 0 | 0 | | 40 |
| G | | | | | | | | |
| TOTAL | 86 | 69 | 95 | 65 | 0 | 44 | | 359 |

MODELLED — HGV — To Arm

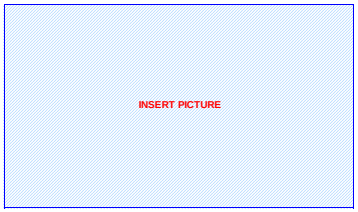
| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 5 | 25 | 0 | 0 | | 45 |
| B | 24 | 0 | 31 | 0 | 0 | 78 | | 133 |
| C | 2 | 0 | 0 | 40 | 0 | 1 | | 43 |
| D | 31 | 0 | 15 | 0 | 0 | 32 | | 78 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 0 | 54 | 15 | 4 | 0 | 0 | | 73 |
| G | | | | | | | | |
| TOTAL | 57 | 69 | 66 | 69 | 0 | 111 | | 372 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | 045 Manchester Road |
| B | 60003 | 60010 | 60010 | 60003 | 4 Queen Elizabeth Wa |
| C | 2814 | 60010 | 60010 | 2814 | 045 Manchester Road |
| D | 60008 | 60010 | 60010 | 60008 | 4 Queen Elizabeth Wa |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 125 | 286 | 83 | | | | 495 |
| B | 136 | 0 | 88 | 553 | | | | 777 |
| C | 341 | 111 | 0 | 142 | | | | 594 |
| D | 105 | 359 | 49 | 0 | | | | 513 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 582 | 595 | 423 | 779 | | | | 2379 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 107 | 209 | 64 | | | | 380 |
| B | 105 | 0 | 56 | 280 | | | | 441 |
| C | 297 | 70 | 0 | 100 | | | | 467 |
| D | 76 | 171 | 40 | 0 | | | | 287 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 478 | 348 | 305 | 444 | | | | 1575 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 56 | 18 | | | | 83 |
| B | 16 | 0 | 29 | 100 | | | | 144 |
| C | 29 | 34 | 0 | 13 | | | | 75 |
| D | 18 | 36 | 7 | 0 | | | | 61 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 62 | 79 | 91 | 131 | | | | 364 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 19 | 1 | | | | 29 |
| B | 14 | 0 | 4 | 173 | | | | 191 |
| C | 16 | 7 | 0 | 29 | | | | 52 |
| D | 11 | 153 | 2 | 0 | | | | 166 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 41 | 169 | 25 | 204 | | | | 438 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 226 | 73 | | | | 339 |
| B | 128 | 0 | 36 | 316 | | | | 480 |
| C | 402 | 100 | 0 | 93 | | | | 595 |
| D | 86 | 289 | 75 | 0 | | | | 451 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 617 | 429 | 337 | 482 | | | | 1865 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 163 | 54 | | | | 240 |
| B | 75 | 0 | 26 | 105 | | | | 206 |
| C | 309 | 50 | 0 | 54 | | | | 414 |
| D | 54 | 135 | 55 | 0 | | | | 243 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 438 | 208 | 243 | 214 | | | | 1103 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 31 | 18 | | | | 56 |
| B | 47 | 0 | 8 | 37 | | | | 93 |
| C | 53 | 18 | 0 | 19 | | | | 90 |
| D | 26 | 36 | 9 | 0 | | | | 71 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 127 | 60 | 49 | 75 | | | | 309 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 30 | 1 | | | | 41 |
| B | 6 | 0 | 2 | 173 | | | | 181 |
| C | 38 | 32 | 0 | 19 | | | | 90 |
| D | 6 | 119 | 11 | 0 | | | | 136 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 161 | 43 | 193 | | | | 448 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 320 | 57 | | | | 413 |
| B | 136 | 0 | 81 | 383 | | | | 600 |
| C | 522 | 181 | 0 | 80 | | | | 783 |
| D | 128 | 302 | 99 | 0 | | | | 529 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 786 | 520 | 499 | 520 | | | | 2325 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 279 | 39 | | | | 343 |
| B | 115 | 0 | 70 | 260 | | | | 445 |
| C | 450 | 161 | 0 | 62 | | | | 674 |
| D | 109 | 222 | 85 | 0 | | | | 416 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 674 | 408 | 434 | 361 | | | | 1877 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 32 | 16 | | | | 51 |
| B | 14 | 0 | 8 | 23 | | | | 44 |
| C | 53 | 18 | 0 | 10 | | | | 81 |
| D | 11 | 18 | 10 | 0 | | | | 39 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 77 | 40 | 50 | 49 | | | | 216 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 6 | 2 | | | | 17 |
| B | 6 | 0 | 4 | 101 | | | | 111 |
| C | 18 | 2 | 0 | 7 | | | | 27 |
| D | 8 | 62 | 3 | 0 | | | | 74 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 72 | 13 | 110 | | | | 228 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.94 | 0 | 1.96 | 0 | | | | 3.9 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Hill Top Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | rehills Rd EB |
| B | 60036 | 60031 | 60031 | 60036 | ill Top Road |
| C | 60230 | 7454 | 7454 | 60230 | rehills Rd SB |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 123 | 394 | 51 | | | | 568 |
| B | 95 | 0 | 14 | 2 | | | | 111 |
| C | 635 | 67 | 0 | 156 | | | | 858 |
| D | 64 | 0 | 38 | 0 | | | | 102 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 794 | 190 | 446 | 209 | | | | 1639 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 217 | 40 | | | | 317 |
| B | 11 | 0 | 2 | 0 | | | | 13 |
| C | 417 | 41 | 0 | 62 | | | | 520 |
| D | 15 | 0 | 3 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 443 | 101 | 222 | 102 | | | | 868 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 55 | 7 | | | | 71 |
| B | 8 | 0 | 1 | 1 | | | | 10 |
| C | 110 | 5 | 0 | 19 | | | | 134 |
| D | 15 | 0 | 2 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 133 | 14 | 58 | 27 | | | | 232 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 122 | 4 | | | | 180 |
| B | 76 | 0 | 11 | 1 | | | | 88 |
| C | 108 | 21 | 0 | 75 | | | | 204 |
| D | 34 | 0 | 33 | 0 | | | | 67 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 218 | 75 | 166 | 80 | | | | 539 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 368 | 28 | | | | 474 |
| B | 113 | 0 | 26 | 1 | | | | 140 |
| C | 311 | 48 | 0 | 112 | | | | 471 |
| D | 99 | 2 | 53 | 0 | | | | 154 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 523 | 128 | 447 | 141 | | | | 1239 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 214 | 21 | | | | 259 |
| B | 33 | 0 | 13 | 0 | | | | 46 |
| C | 176 | 8 | 0 | 19 | | | | 203 |
| D | 36 | 1 | 13 | 0 | | | | 50 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 245 | 33 | 240 | 40 | | | | 558 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 56 | 5 | | | | 73 |
| B | 18 | 0 | 7 | 1 | | | | 26 |
| C | 44 | 8 | 0 | 22 | | | | 74 |
| D | 22 | 1 | 8 | 0 | | | | 31 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 84 | 21 | 71 | 28 | | | | 204 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 98 | 2 | | | | 142 |
| B | 62 | 0 | 6 | 0 | | | | 68 |
| C | 91 | 32 | 0 | 71 | | | | 194 |
| D | 41 | 0 | 32 | 0 | | | | 73 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 194 | 74 | 136 | 73 | | | | 477 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 466 | 12 | | | | 529 |
| B | 98 | 0 | 50 | 0 | | | | 148 |
| C | 365 | 24 | 0 | 52 | | | | 441 |
| D | 147 | 0 | 52 | 0 | | | | 199 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 610 | 75 | 568 | 64 | | | | 1317 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 390 | 11 | | | | 421 |
| B | 69 | 0 | 31 | 0 | | | | 100 |
| C | 266 | 11 | 0 | 10 | | | | 287 |
| D | 112 | 0 | 31 | 0 | | | | 143 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 447 | 31 | 452 | 21 | | | | 951 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 35 | 1 | | | | 38 |
| B | 4 | 0 | 8 | 0 | | | | 12 |
| C | 39 | 1 | 0 | 4 | | | | 44 |
| D | 12 | 0 | 1 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 55 | 3 | 44 | 5 | | | | 107 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 41 | 0 | | | | 70 |
| B | 25 | 0 | 11 | 0 | | | | 36 |
| C | 60 | 12 | 0 | 38 | | | | 110 |
| D | 23 | 0 | 20 | 0 | | | | 43 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 108 | 41 | 72 | 38 | | | | 259 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Pilsworth Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 250 | 325 | | | | | 575 |
| B | 496 | 0 | 242 | | | | | 738 |
| C | 534 | 258 | 0 | | | | | 792 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1029 | 509 | 567 | | | | | 2105 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 164 | 139 | | | | | 303 |
| B | 365 | 0 | 178 | | | | | 543 |
| C | 276 | 166 | 0 | | | | | 442 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 641 | 330 | 316 | | | | | 1288 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 32 | | | | | 60 |
| B | 49 | 0 | 38 | | | | | 87 |
| C | 64 | 68 | 0 | | | | | 132 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 113 | 95 | 71 | | | | | 279 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 154 | | | | | 213 |
| B | 82 | 0 | 26 | | | | | 108 |
| C | 193 | 24 | 0 | | | | | 218 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 275 | 83 | 180 | | | | | 538 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 333 | 327 | | | | | 660 |
| B | 258 | 0 | 146 | | | | | 404 |
| C | 337 | 186 | 0 | | | | | 522 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 595 | 518 | 473 | | | | | 1586 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 213 | 163 | | | | | 376 |
| B | 168 | 0 | 96 | | | | | 264 |
| C | 135 | 110 | 0 | | | | | 245 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 303 | 323 | 259 | | | | | 885 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 45 | | | | | 92 |
| B | 38 | 0 | 27 | | | | | 65 |
| C | 44 | 39 | 0 | | | | | 83 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 82 | 86 | 73 | | | | | 240 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 118 | | | | | 191 |
| B | 52 | 0 | 23 | | | | | 75 |
| C | 158 | 37 | 0 | | | | | 195 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 210 | 109 | 142 | | | | | 461 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 397 | 375 | | | | | 771 |
| B | 252 | 0 | 157 | | | | | 409 |
| C | 339 | 271 | 0 | | | | | 610 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 591 | 668 | 531 | | | | | 1790 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 342 | 295 | | | | | 637 |
| B | 204 | 0 | 127 | | | | | 331 |
| C | 214 | 234 | 0 | | | | | 448 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 418 | 576 | 422 | | | | | 1416 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 19 | | | | | 49 |
| B | 12 | 0 | 19 | | | | | 31 |
| C | 27 | 28 | 0 | | | | | 55 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 39 | 58 | 38 | | | | | 135 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 60 | | | | | 85 |
| B | 36 | 0 | 10 | | | | | 47 |
| C | 98 | 9 | 0 | | | | | 108 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 135 | 34 | 71 | | | | | 239 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / A58 Bury St

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 504 | 151 | | | | | 655 |
| B | 589 | 0 | 469 | | | | | 1058 |
| C | 220 | 311 | 0 | | | | | 530 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 808 | 814 | 620 | | | | | 2243 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 354 | 124 | | | | | 478 |
| B | 384 | 0 | 324 | | | | | 708 |
| C | 145 | 239 | 0 | | | | | 383 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 529 | 593 | 448 | | | | | 1570 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 96 | 19 | | | | | 114 |
| B | 111 | 0 | 44 | | | | | 155 |
| C | 63 | 21 | 0 | | | | | 84 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 174 | 117 | 62 | | | | | 353 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 9 | | | | | 53 |
| B | 83 | 0 | 81 | | | | | 165 |
| C | 12 | 33 | 0 | | | | | 45 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 77 | 90 | | | | | 263 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 29 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 28 | 20 | | | | | 57 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 509 | 111 | | | | | 619 |
| B | 493 | 0 | 293 | | | | | 787 |
| C | 145 | 333 | 0 | | | | | 478 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 638 | 842 | 404 | | | | | 1884 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 370 | 83 | | | | | 453 |
| B | 338 | 0 | 192 | | | | | 530 |
| C | 112 | 207 | 0 | | | | | 319 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 450 | 577 | 275 | | | | | 1302 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 79 | 20 | | | | | 99 |
| B | 88 | 0 | 36 | | | | | 124 |
| C | 22 | 36 | 0 | | | | | 58 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 110 | 115 | 56 | | | | | 281 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 7 | | | | | 58 |
| B | 57 | 0 | 45 | | | | | 102 |
| C | 11 | 72 | 0 | | | | | 83 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 122 | 53 | | | | | 243 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.91 | 27.87 | 19.81 | | | | | 57.59 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 540 | 109 | | | | | 649 |
| B | 563 | 0 | 336 | | | | | 898 |
| C | 206 | 310 | 0 | | | | | 515 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 768 | 850 | 444 | | | | | 2062 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 480 | 95 | | | | | 575 |
| B | 482 | 0 | 273 | | | | | 754 |
| C | 185 | 261 | 0 | | | | | 446 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 666 | 741 | 368 | | | | | 1775 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 12 | | | | | 55 |
| B | 58 | 0 | 26 | | | | | 84 |
| C | 18 | 25 | 0 | | | | | 43 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 76 | 69 | 37 | | | | | 182 |

MODELLED — HGV — To Arm / From Arm

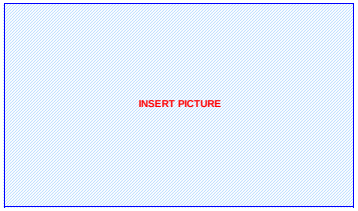
| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 2 | | | | | 11 |
| B | 15 | 0 | 17 | | | | | 32 |
| C | 3 | 6 | 0 | | | | | 9 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 18 | 14 | 20 | | | | | 52 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 20 | | | | | 27 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.82 | 25.75 | 19.55 | | | | | 53.12 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / Heywood Distribution Centre




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | Pilsworth Rd NB |
| B | 20430 | 7459 | 7459 | 20430 | ywood Distribution Cer |
| C | 2813 | 7459 | 7459 | 2813 | Pilsworth Rd SB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 304 | 408 | | | | | 713 |
| B | 166 | 0 | 167 | | | | | 333 |
| C | 801 | 229 | 0 | | | | | 1029 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 966 | 533 | 575 | | | | | 2074 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 175 | 262 | | | | | 436 |
| B | 32 | 0 | 41 | | | | | 74 |
| C | 516 | 125 | 0 | | | | | 641 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 549 | 299 | 303 | | | | | 1151 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 41 | | | | | 63 |
| B | 29 | 0 | 19 | | | | | 48 |
| C | 90 | 23 | 0 | | | | | 113 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 120 | 45 | 60 | | | | | 225 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 107 | 106 | | | | | 213 |
| B | 104 | 0 | 106 | | | | | 210 |
| C | 194 | 81 | 0 | | | | | 275 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 298 | 188 | 213 | | | | | 699 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 244 | 458 | | | | | 701 |
| B | 214 | 0 | 202 | | | | | 416 |
| C | 443 | 152 | 0 | | | | | 595 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 657 | 395 | 660 | | | | | 1713 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 69 | 285 | | | | | 354 |
| B | 82 | 0 | 91 | | | | | 174 |
| C | 233 | 70 | 0 | | | | | 303 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 316 | 138 | 376 | | | | | 830 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 64 | | | | | 102 |
| B | 35 | 0 | 29 | | | | | 63 |
| C | 63 | 19 | 0 | | | | | 82 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 98 | 57 | 92 | | | | | 248 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 136 | 109 | | | | | 245 |
| B | 97 | 0 | 82 | | | | | 179 |
| C | 147 | 63 | 0 | | | | | 210 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 244 | 200 | 191 | | | | | 635 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 124 | 621 | | | | | 745 |
| B | 209 | 0 | 150 | | | | | 359 |
| C | 501 | 90 | 0 | | | | | 591 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 710 | 214 | 771 | | | | | 1695 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 523 | | | | | 568 |
| B | 161 | 0 | 114 | | | | | 275 |
| C | 376 | 42 | 0 | | | | | 418 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 537 | 86 | 637 | | | | | 1260 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 43 | | | | | 53 |
| B | 15 | 0 | 6 | | | | | 21 |
| C | 31 | 8 | 0 | | | | | 39 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 46 | 18 | 49 | | | | | 113 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 70 | 55 | | | | | 124 |
| B | 32 | 0 | 31 | | | | | 63 |
| C | 94 | 41 | 0 | | | | | 135 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 126 | 110 | 85 | | | | | 322 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / JPA1.1 & SHDA employment

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | *Pilsworth Rd SB* |
| B | 60027 | 60229 | 60229 | 60027 | *SHDA* |
| C | 60024 | 60229 | 60229 | 60024 | *Pilsworth Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 946 | | | | | 966 |
| B | 12 | 0 | 18 | | | | | 30 |
| C | 701 | 31 | 0 | | | | | 731 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 713 | 51 | 964 | | | | | 1727 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 540 | | | | | 549 |
| B | 3 | 0 | 5 | | | | | 8 |
| C | 434 | 14 | 0 | | | | | 447 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 436 | 22 | 545 | | | | | 1004 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 117 | | | | | 120 |
| B | 1 | 0 | 2 | | | | | 4 |
| C | 62 | 3 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 63 | 6 | 120 | | | | | 189 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 288 | | | | | 298 |
| B | 8 | 0 | 10 | | | | | 18 |
| C | 205 | 14 | 0 | | | | | 219 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 213 | 23 | 298 | | | | | 535 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 645 | | | | | 657 |
| B | 18 | 0 | 25 | | | | | 43 |
| C | 683 | 27 | 0 | | | | | 710 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 701 | 39 | 669 | | | | | 1410 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 311 | | | | | 315 |
| B | 5 | 0 | 8 | | | | | 13 |
| C | 348 | 7 | 0 | | | | | 355 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 354 | 12 | 319 | | | | | 684 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 96 | | | | | 98 |
| B | 3 | 0 | 4 | | | | | 8 |
| C | 99 | 5 | 0 | | | | | 104 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 102 | 7 | 100 | | | | | 210 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 238 | | | | | 244 |
| B | 9 | 0 | 13 | | | | | 22 |
| C | 236 | 15 | 0 | | | | | 251 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 245 | 20 | 251 | | | | | 516 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 703 | | | | | 710 |
| B | 16 | 0 | 26 | | | | | 43 |
| C | 729 | 13 | 0 | | | | | 742 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 745 | 20 | 729 | | | | | 1494 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 535 | | | | | 537 |
| B | 10 | 0 | 17 | | | | | 27 |
| C | 558 | 5 | 0 | | | | | 563 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 568 | 7 | 553 | | | | | 1128 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 46 | | | | | 46 |
| B | 1 | 0 | 2 | | | | | 3 |
| C | 52 | 1 | 0 | | | | | 53 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 1 | 48 | | | | | 102 |

MODELLED — HGV

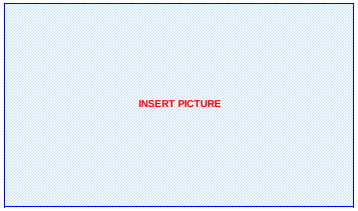
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 122 | | | | | 126 |
| B | 6 | 0 | 7 | | | | | 13 |
| C | 118 | 7 | 0 | | | | | 126 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 124 | 12 | 129 | | | | | 265 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** 3 Arrows (Pilsworth Road / Moss Hall Road - South)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 60241 | 2037 | 2037 | 60241 | *Link Road* |
| D | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 228 | 722 | 13 | | | | 964 |
| B | 71 | 0 | 369 | 1 | | | | 441 |
| C | 656 | 876 | 0 | 17 | | | | 1550 |
| D | 3 | 1 | 13 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 731 | 1105 | 1105 | 32 | | | | 2973 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 129 | 409 | 7 | | | | 545 |
| B | 15 | 0 | 175 | 1 | | | | 191 |
| C | 432 | 519 | 0 | 5 | | | | 955 |
| D | 1 | 1 | 1 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 447 | 650 | 585 | 13 | | | | 1694 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 98 | 2 | | | | 120 |
| B | 7 | 0 | 78 | 0 | | | | 85 |
| C | 58 | 104 | 0 | 4 | | | | 167 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 65 | 125 | 176 | 6 | | | | 372 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 216 | 4 | | | | 298 |
| B | 49 | 0 | 116 | 0 | | | | 165 |
| C | 167 | 253 | 0 | 8 | | | | 428 |
| D | 2 | 0 | 13 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 219 | 331 | 344 | 13 | | | | 907 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 106 | 559 | 5 | | | | 669 |
| B | 127 | 0 | 566 | 1 | | | | 694 |
| C | 573 | 524 | 0 | 23 | | | | 1120 |
| D | 10 | 4 | 18 | 0 | | | | 31 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 710 | 633 | 1142 | 29 | | | | 2514 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 271 | 3 | | | | 319 |
| B | 57 | 0 | 336 | 1 | | | | 393 |
| C | 295 | 248 | 0 | 2 | | | | 545 |
| D | 3 | 1 | 5 | 0 | | | | 8 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 355 | 294 | 611 | 5 | | | | 1265 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 72 | 2 | | | | 100 |
| B | 26 | 0 | 104 | 1 | | | | 130 |
| C | 76 | 115 | 0 | 2 | | | | 193 |
| D | 2 | 0 | 1 | 0 | | | | 4 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 141 | 177 | 5 | | | | 427 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 215 | 0 | | | | 251 |
| B | 45 | 0 | 127 | 0 | | | | 172 |
| C | 202 | 160 | 0 | 19 | | | | 381 |
| D | 4 | 3 | 12 | 0 | | | | 19 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 251 | 198 | 354 | 19 | | | | 822 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 671 | 14 | | | | 729 |
| B | 141 | 0 | 769 | 8 | | | | 917 |
| C | 594 | 426 | 0 | 13 | | | | 1033 |
| D | 8 | 1 | 10 | 0 | | | | 19 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 742 | 472 | 1449 | 35 | | | | 2698 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 522 | 9 | | | | 553 |
| B | 81 | 0 | 641 | 6 | | | | 729 |
| C | 476 | 347 | 0 | 8 | | | | 832 |
| D | 6 | 1 | 6 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 563 | 370 | 1170 | 23 | | | | 2126 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 42 | 0 | | | | 48 |
| B | 12 | 0 | 62 | 0 | | | | 74 |
| C | 39 | 23 | 0 | 1 | | | | 63 |
| D | 2 | 0 | 2 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 28 | 106 | 1 | | | | 188 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 106 | 5 | | | | 129 |
| B | 47 | 0 | 65 | 2 | | | | 114 |
| C | 78 | 57 | 0 | 4 | | | | 139 |
| D | 0 | 0 | 2 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 126 | 74 | 173 | 11 | | | | 384 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Fowler Welch (Pilsworth Road / Moss Hall Road - North)

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60241 | 60246 | 60246 | 60241 | *Moss Hall Rd NB* |
| B | 60000 | 60213 | 60213 | 60000 | *Pilsworth Road* |
| C | 60228 | 2038 | 2038 | 60228 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 928 | 177 | | | | | 1105 |
| B | 1155 | 0 | 129 | | | | | 1284 |
| C | 396 | 129 | 0 | | | | | 525 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1551 | 1057 | 306 | | | | | 2914 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 531 | 53 | | | | | 584 |
| B | 703 | 0 | 94 | | | | | 797 |
| C | 253 | 102 | 0 | | | | | 355 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 956 | 633 | 147 | | | | | 1736 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 124 | 52 | | | | | 176 |
| B | 96 | 0 | 20 | | | | | 116 |
| C | 71 | 20 | 0 | | | | | 91 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 167 | 144 | 72 | | | | | 383 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 273 | 72 | | | | | 345 |
| B | 356 | 0 | 15 | | | | | 371 |
| C | 72 | 7 | 0 | | | | | 79 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 428 | 280 | 87 | | | | | 795 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 764 | 378 | | | | | 1142 |
| B | 993 | 0 | 51 | | | | | 1044 |
| C | 127 | 105 | 0 | | | | | 232 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1120 | 869 | 429 | | | | | 2418 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 383 | 228 | | | | | 611 |
| B | 530 | 0 | 32 | | | | | 562 |
| C | 16 | 84 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 546 | 467 | 260 | | | | | 1273 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 111 | 66 | | | | | 177 |
| B | 150 | 0 | 12 | | | | | 162 |
| C | 43 | 16 | 0 | | | | | 59 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 193 | 127 | 78 | | | | | 398 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 270 | 84 | | | | | 354 |
| B | 313 | 0 | 7 | | | | | 320 |
| C | 68 | 5 | 0 | | | | | 73 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 381 | 275 | 91 | | | | | 747 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 950 | 499 | | | | | 1449 |
| B | 941 | 0 | 156 | | | | | 1097 |
| C | 91 | 135 | 0 | | | | | 226 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1032 | 1085 | 655 | | | | | 2772 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 754 | 416 | | | | | 1170 |
| B | 792 | 0 | 135 | | | | | 927 |
| C | 40 | 121 | 0 | | | | | 161 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 832 | 875 | 551 | | | | | 2258 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 69 | 37 | | | | | 106 |
| B | 45 | 0 | 19 | | | | | 64 |
| C | 17 | 13 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 62 | 82 | 56 | | | | | 200 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 127 | 46 | | | | | 173 |
| B | 104 | 0 | 2 | | | | | 106 |
| C | 34 | 1 | 0 | | | | | 35 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 138 | 128 | 48 | | | | | 314 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | TC 11 - Pilsworth Rd E |
| B | 3001 | 60238 | 60239 | 3000 | JTC 11 - M66 SB Off |
| C | 60213 | 60000 | 60000 | 60213 | TC 11 - Pilsworth Rd W |
| D | 60236 | 4918 | 60240 | 2998 | JTC 11 - M66 NB Off |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 371 | 559 | 211 | | | | 1141 |
| B | 405 | 0 | 316 | 0 | | | | 721 |
| C | 379 | 221 | 0 | 456 | | | | 1056 |
| D | 743 | 0 | 405 | 0 | | | | 1148 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1527 | 592 | 1280 | 667 | | | | 4066 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 265 | 430 | 138 | | | | 833 |
| B | 320 | 0 | 162 | 0 | | | | 482 |
| C | 284 | 163 | 0 | 186 | | | | 633 |
| D | 618 | 0 | 203 | 0 | | | | 821 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1222 | 428 | 795 | 324 | | | | 2769 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 56 | 65 | 55 | | | | 176 |
| B | 47 | 0 | 13 | 0 | | | | 60 |
| C | 60 | 39 | 0 | 44 | | | | 143 |
| D | 71 | 0 | 37 | 0 | | | | 108 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 178 | 95 | 115 | 99 | | | | 487 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 64 | 18 | | | | 132 |
| B | 38 | 0 | 141 | 0 | | | | 179 |
| C | 35 | 19 | 0 | 226 | | | | 280 |
| D | 54 | 0 | 165 | 0 | | | | 219 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 127 | 69 | 370 | 244 | | | | 810 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 465 | 439 | 201 | | | | 1105 |
| B | 339 | 0 | 263 | 0 | | | | 602 |
| C | 290 | 150 | 0 | 428 | | | | 868 |
| D | 409 | 0 | 342 | 0 | | | | 751 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1038 | 615 | 1044 | 629 | | | | 3326 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 355 | 270 | 177 | | | | 802 |
| B | 251 | 0 | 206 | 0 | | | | 457 |
| C | 212 | 101 | 0 | 154 | | | | 467 |
| D | 294 | 0 | 86 | 0 | | | | 380 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 757 | 456 | 562 | 331 | | | | 2106 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 69 | 23 | | | | 155 |
| B | 46 | 0 | 30 | 0 | | | | 76 |
| C | 40 | 23 | 0 | 64 | | | | 127 |
| D | 57 | 0 | 64 | 0 | | | | 121 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 143 | 86 | 163 | 87 | | | | 479 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 100 | 1 | | | | 148 |
| B | 42 | 0 | 27 | 0 | | | | 69 |
| C | 38 | 26 | 0 | 210 | | | | 274 |
| D | 58 | 0 | 192 | 0 | | | | 250 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 138 | 73 | 319 | 211 | | | | 741 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 536 | 543 | 192 | | | | 1271 |
| B | 299 | 0 | 288 | 0 | | | | 587 |
| C | 395 | 194 | 0 | 496 | | | | 1085 |
| D | 528 | 0 | 268 | 0 | | | | 796 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1222 | 730 | 1099 | 688 | | | | 3739 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 488 | 495 | 170 | | | | 1153 |
| B | 261 | 0 | 259 | 0 | | | | 520 |
| C | 337 | 172 | 0 | 366 | | | | 875 |
| D | 397 | 0 | 173 | 0 | | | | 570 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 995 | 660 | 927 | 536 | | | | 3118 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 24 | 20 | | | | 77 |
| B | 29 | 0 | 13 | 0 | | | | 42 |
| C | 28 | 19 | 0 | 35 | | | | 82 |
| D | 65 | 0 | 28 | 0 | | | | 93 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 52 | 65 | 55 | | | | 294 |

MODELLED — HGV

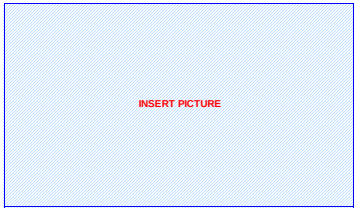
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 24 | 2 | | | | 41 |
| B | 9 | 0 | 16 | 0 | | | | 25 |
| C | 30 | 3 | 0 | 95 | | | | 128 |
| D | 66 | 0 | 67 | 0 | | | | 133 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 105 | 18 | 107 | 97 | | | | 327 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N12 - M66 NB Of |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 149 | 111 | 437 | 1340 | 54 | | 2091 |
| B | 289 | 0 | 25 | 205 | 0 | 36 | | 555 |
| C | 63 | 3 | 0 | 11 | 21 | 0 | | 98 |
| D | 666 | 224 | 28 | 0 | 309 | 73 | | 1300 |
| E | 1522 | 0 | 65 | 162 | 0 | 106 | | 1855 |
| F | 40 | 5 | 1 | 40 | 31 | 0 | | 117 |
| G | | | | | | | | |
| TOTAL | 2580 | 381 | 230 | 855 | 1701 | 269 | | 6016 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 113 | 46 | 308 | 1023 | 50 | | 1540 |
| B | 268 | 0 | 23 | 144 | 0 | 31 | | 466 |
| C | 11 | 1 | 0 | 4 | 7 | 0 | | 23 |
| D | 520 | 155 | 22 | 0 | 213 | 40 | | 950 |
| E | 1167 | 0 | 51 | 94 | 0 | 97 | | 1409 |
| F | 32 | 3 | 1 | 23 | 23 | 0 | | 82 |
| G | | | | | | | | |
| TOTAL | 1998 | 272 | 143 | 573 | 1266 | 218 | | 4470 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 33 | 73 | 199 | 3 | | 338 |
| B | 17 | 0 | 2 | 35 | 0 | 1 | | 55 |
| C | 37 | 2 | 0 | 5 | 9 | 0 | | 53 |
| D | 57 | 33 | 4 | 0 | 51 | 12 | | 157 |
| E | 177 | 0 | 7 | 42 | 0 | 6 | | 232 |
| F | 3 | 1 | 0 | 5 | 5 | 0 | | 14 |
| G | | | | | | | | |
| TOTAL | 291 | 66 | 46 | 160 | 264 | 22 | | 849 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 32 | 56 | 118 | 1 | | 213 |
| B | 4 | 0 | 0 | 26 | 0 | 4 | | 34 |
| C | 15 | 0 | 0 | 2 | 5 | 0 | | 22 |
| D | 89 | 36 | 2 | 0 | 45 | 21 | | 193 |
| E | 178 | 0 | 7 | 26 | 0 | 3 | | 214 |
| F | 5 | 1 | 0 | 12 | 3 | 0 | | 21 |
| G | | | | | | | | |
| TOTAL | 291 | 43 | 41 | 122 | 171 | 29 | | 697 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 164 | 116 | 303 | 1334 | 32 | | 1949 |
| B | 206 | 0 | 22 | 184 | 0 | 12 | | 424 |
| C | 83 | 13 | 0 | 15 | 36 | 1 | | 148 |
| D | 581 | 159 | 35 | 0 | 117 | 63 | | 955 |
| E | 1256 | 0 | 50 | 232 | 0 | 48 | | 1586 |
| F | 47 | 14 | 2 | 47 | 47 | 0 | | 157 |
| G | | | | | | | | |
| TOTAL | 2173 | 350 | 225 | 781 | 1534 | 156 | | 5219 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 119 | 58 | 192 | 987 | 27 | | 1383 |
| B | 167 | 0 | 17 | 125 | 0 | 9 | | 318 |
| C | 29 | 8 | 0 | 9 | 24 | 1 | | 71 |
| D | 419 | 98 | 23 | 0 | 56 | 30 | | 626 |
| E | 894 | 0 | 38 | 145 | 0 | 36 | | 1113 |
| F | 42 | 11 | 2 | 24 | 40 | 0 | | 119 |
| G | | | | | | | | |
| TOTAL | 1551 | 236 | 138 | 495 | 1107 | 103 | | 3630 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 38 | 58 | 195 | 3 | | 318 |
| B | 22 | 0 | 3 | 27 | 0 | 1 | | 53 |
| C | 44 | 3 | 0 | 5 | 7 | 0 | | 59 |
| D | 84 | 36 | 7 | 0 | 30 | 14 | | 171 |
| E | 209 | 0 | 8 | 49 | 0 | 5 | | 271 |
| F | 4 | 2 | 0 | 10 | 4 | 0 | | 20 |
| G | | | | | | | | |
| TOTAL | 363 | 65 | 56 | 149 | 236 | 23 | | 892 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 20 | 53 | 152 | 2 | | 248 |
| B | 17 | 0 | 2 | 32 | 0 | 2 | | 53 |
| C | 10 | 2 | 0 | 1 | 5 | 0 | | 18 |
| D | 78 | 25 | 5 | 0 | 31 | 19 | | 158 |
| E | 153 | 0 | 4 | 38 | 0 | 7 | | 202 |
| F | 1 | 1 | 0 | 13 | 3 | 0 | | 18 |
| G | | | | | | | | |
| TOTAL | 259 | 49 | 31 | 137 | 191 | 30 | | 697 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 249 | 35 | 430 | 1407 | 42 | | 2163 |
| B | 285 | 0 | 6 | 157 | 0 | 14 | | 462 |
| C | 53 | 13 | 0 | 18 | 49 | 1 | | 134 |
| D | 727 | 176 | 14 | 0 | 181 | 66 | | 1164 |
| E | 1411 | 0 | 19 | 323 | 0 | 61 | | 1814 |
| F | 45 | 20 | 0 | 56 | 115 | 0 | | 236 |
| G | | | | | | | | |
| TOTAL | 2521 | 458 | 74 | 984 | 1752 | 184 | | 5973 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 234 | 18 | 376 | 1292 | 40 | | 1960 |
| B | 265 | 0 | 5 | 138 | 0 | 13 | | 421 |
| C | 24 | 12 | 0 | 16 | 46 | 1 | | 99 |
| D | 629 | 154 | 12 | 0 | 144 | 55 | | 994 |
| E | 1235 | 0 | 15 | 273 | 0 | 48 | | 1571 |
| F | 41 | 19 | 0 | 46 | 112 | 0 | | 218 |
| G | | | | | | | | |
| TOTAL | 2194 | 419 | 50 | 849 | 1594 | 157 | | 5263 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 15 | 33 | 91 | 2 | | 155 |
| B | 17 | 0 | 1 | 17 | 0 | 1 | | 36 |
| C | 25 | 1 | 0 | 2 | 3 | 0 | | 31 |
| D | 53 | 19 | 2 | 0 | 24 | 10 | | 108 |
| E | 135 | 0 | 4 | 35 | 0 | 6 | | 180 |
| F | 3 | 1 | 0 | 4 | 2 | 0 | | 10 |
| G | | | | | | | | |
| TOTAL | 233 | 35 | 22 | 91 | 120 | 19 | | 520 |

MODELLED — HGV

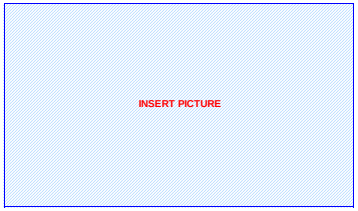
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 21 | 24 | 0 | | 48 |
| B | 3 | 0 | 0 | 2 | 0 | 0 | | 5 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 45 | 3 | 0 | 0 | 13 | 1 | | 62 |
| E | 41 | 0 | 0 | 15 | 0 | 7 | | 63 |
| F | 1 | 0 | 0 | 6 | 1 | 0 | | 8 |
| G | | | | | | | | |
| TOTAL | 94 | 4 | 2 | 44 | 38 | 8 | | 190 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | Heywood Old Road NE |
| B | 60074 | 2478 | 2478 | 60074 | Whittle Lane |
| C | 4730 | 2478 | 2478 | 4730 | Heywood Old Road SE |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 140 | 479 | | | | | 619 |
| B | 4 | 0 | 24 | | | | | 28 |
| C | 573 | 178 | 0 | | | | | 751 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 578 | 317 | 503 | | | | | 1398 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 118 | 365 | | | | | 483 |
| B | 1 | 0 | 12 | | | | | 13 |
| C | 445 | 146 | 0 | | | | | 591 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 446 | 264 | 377 | | | | | 1087 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 67 | | | | | 89 |
| B | 3 | 0 | 13 | | | | | 15 |
| C | 105 | 32 | 0 | | | | | 136 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 107 | 54 | 80 | | | | | 241 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 45 | | | | | 45 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 0 | 45 | | | | | 69 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 561 | | | | | 609 |
| B | 9 | 0 | 93 | | | | | 102 |
| C | 327 | 67 | 0 | | | | | 394 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 336 | 115 | 654 | | | | | 1105 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 386 | | | | | 413 |
| B | 6 | 0 | 60 | | | | | 66 |
| C | 248 | 35 | 0 | | | | | 282 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 254 | 62 | 446 | | | | | 762 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 85 | | | | | 106 |
| B | 2 | 0 | 34 | | | | | 36 |
| C | 42 | 32 | 0 | | | | | 73 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 44 | 53 | 118 | | | | | 215 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 88 | | | | | 88 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 38 | 0 | 0 | | | | | 38 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 0 | 88 | | | | | 126 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.98 | | | | | 1.98 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 824 | | | | | 840 |
| B | 17 | 0 | 151 | | | | | 168 |
| C | 416 | 47 | 0 | | | | | 463 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 433 | 63 | 975 | | | | | 1471 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 706 | | | | | 718 |
| B | 15 | 0 | 132 | | | | | 148 |
| C | 368 | 42 | 0 | | | | | 410 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 383 | 54 | 838 | | | | | 1275 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 92 | | | | | 96 |
| B | 1 | 0 | 19 | | | | | 20 |
| C | 39 | 6 | 0 | | | | | 45 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 41 | 9 | 111 | | | | | 161 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 24 | | | | | 24 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 9 | 0 | 0 | | | | | 9 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 9 | 0 | 24 | | | | | 33 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.92 | | | | | 1.92 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A6045 Heywood Old Road / Langley Lane**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | *Heywood Old Road SB* |
| B | 15238 | 4730 | 4730 | 15238 | *Langley Lane* |
| C | 2478 | 4730 | 4730 | 2478 | *Heywood Old Road NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 93 | 383 | | | | | 476 |
| B | 119 | 0 | 368 | | | | | 487 |
| C | 383 | 121 | 0 | | | | | 503 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 501 | 214 | 751 | | | | | 1466 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 281 | | | | | 360 |
| B | 110 | 0 | 309 | | | | | 420 |
| C | 277 | 100 | 0 | | | | | 377 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 387 | 178 | 591 | | | | | 1156 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 85 | | | | | 92 |
| B | 5 | 0 | 51 | | | | | 56 |
| C | 61 | 19 | 0 | | | | | 80 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 66 | 25 | 136 | | | | | 228 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 16 | | | | | 22 |
| B | 3 | 0 | 8 | | | | | 11 |
| C | 45 | 0 | 0 | | | | | 45 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 48 | 6 | 24 | | | | | 78 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 230 | | | | | 277 |
| B | 70 | 0 | 164 | | | | | 234 |
| C | 472 | 182 | 0 | | | | | 654 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 543 | 229 | 394 | | | | | 1165 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 157 | | | | | 198 |
| B | 58 | 0 | 125 | | | | | 183 |
| C | 317 | 130 | 0 | | | | | 446 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 374 | 171 | 282 | | | | | 827 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 36 | | | | | 38 |
| B | 6 | 0 | 38 | | | | | 44 |
| C | 75 | 43 | 0 | | | | | 118 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 46 | 73 | | | | | 201 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 37 | | | | | 38 |
| B | 5 | 0 | 0 | | | | | 5 |
| C | 81 | 7 | 0 | | | | | 88 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 85 | 8 | 38 | | | | | 131 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.97 | 0 | | | | | 5.97 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 288 | | | | | 339 |
| B | 80 | 0 | 175 | | | | | 255 |
| C | 649 | 326 | 0 | | | | | 975 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 728 | 378 | 463 | | | | | 1569 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 251 | | | | | 296 |
| B | 73 | 0 | 159 | | | | | 232 |
| C | 557 | 281 | 0 | | | | | 838 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 630 | 326 | 410 | | | | | 1366 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 29 | | | | | 32 |
| B | 4 | 0 | 16 | | | | | 20 |
| C | 69 | 42 | 0 | | | | | 111 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 73 | 46 | 45 | | | | | 163 |

MODELLED — HGV

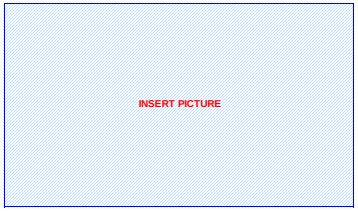
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 8 | | | | | 9 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 23 | 1 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 2 | 9 | | | | | 34 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 3.9 | 0 | | | | | 5.88 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Langley Lane / A6046 Hollin Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 149 | 839 | | | | | 988 |
| B | 108 | 0 | 57 | | | | | 165 |
| C | 678 | 7 | 0 | | | | | 685 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 786 | 156 | 896 | | | | | 1838 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 92 | 598 | | | | | 689 |
| B | 83 | 0 | 54 | | | | | 137 |
| C | 365 | 6 | 0 | | | | | 372 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 449 | 98 | 651 | | | | | 1198 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 152 | | | | | 202 |
| B | 21 | 0 | 2 | | | | | 22 |
| C | 158 | 1 | 0 | | | | | 159 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 179 | 51 | 154 | | | | | 383 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 69 | | | | | 77 |
| B | 1 | 0 | 2 | | | | | 2 |
| C | 125 | 0 | 0 | | | | | 125 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 125 | 8 | 71 | | | | | 204 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 20 | | | | | 20 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 0 | 20 | | | | | 53 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 847 | | | | | 936 |
| B | 99 | 0 | 8 | | | | | 107 |
| C | 632 | 17 | 0 | | | | | 648 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 731 | 106 | 855 | | | | | 1692 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 504 | | | | | 553 |
| B | 50 | 0 | 7 | | | | | 57 |
| C | 418 | 16 | 0 | | | | | 434 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 468 | 64 | 511 | | | | | 1044 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 156 | | | | | 195 |
| B | 40 | 0 | 0 | | | | | 40 |
| C | 100 | 0 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 139 | 39 | 157 | | | | | 335 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 166 | | | | | 167 |
| B | 5 | 0 | 1 | | | | | 6 |
| C | 90 | 0 | 0 | | | | | 91 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 1 | 167 | | | | | 264 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.75 | 1.99 | 19.92 | | | | | 49.66 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 115 | 828 | | | | | 943 |
| B | 98 | 0 | 9 | | | | | 107 |
| C | 806 | 51 | 0 | | | | | 857 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 903 | 166 | 837 | | | | | 1906 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 97 | 677 | | | | | 774 |
| B | 63 | 0 | 9 | | | | | 72 |
| C | 622 | 50 | 0 | | | | | 672 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 686 | 147 | 686 | | | | | 1518 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 80 | | | | | 96 |
| B | 29 | 0 | 0 | | | | | 30 |
| C | 96 | 1 | 0 | | | | | 97 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 125 | 17 | 80 | | | | | 222 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 43 | | | | | 43 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 64 | 0 | 0 | | | | | 64 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 65 | 0 | 43 | | | | | 109 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 27 | | | | | 29 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 23 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.25 | 1.96 | 27.38 | | | | | 56.59 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Coronation Avenue

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 127 | 331 | | | | | 459 |
| B | 369 | 0 | 35 | | | | | 404 |
| C | 503 | 183 | 0 | | | | | 687 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 873 | 311 | 366 | | | | | 1550 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 237 | | | | | 237 |
| B | 235 | 0 | 22 | | | | | 258 |
| C | 443 | 135 | 0 | | | | | 578 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 679 | 135 | 260 | | | | | 1073 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 70 | | | | | 70 |
| B | 42 | 0 | 10 | | | | | 51 |
| C | 34 | 41 | 0 | | | | | 75 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 41 | 79 | | | | | 196 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 98 | 21 | | | | | 119 |
| B | 73 | 0 | 3 | | | | | 76 |
| C | 26 | 8 | 0 | | | | | 34 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 99 | 106 | 23 | | | | | 229 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 4 | | | | | 33 |
| B | 19 | 0 | 0 | | | | | 19 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 29 | 4 | | | | | 53 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 118 | 281 | | | | | 399 |
| B | 253 | 0 | 24 | | | | | 277 |
| C | 487 | 99 | 0 | | | | | 586 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 740 | 217 | 305 | | | | | 1262 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 189 | | | | | 189 |
| B | 121 | 0 | 5 | | | | | 126 |
| C | 343 | 65 | 0 | | | | | 408 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 464 | 65 | 194 | | | | | 723 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 51 | | | | | 51 |
| B | 2 | 0 | 5 | | | | | 7 |
| C | 99 | 27 | 0 | | | | | 126 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 101 | 27 | 57 | | | | | 185 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 94 | 34 | | | | | 128 |
| B | 110 | 0 | 14 | | | | | 124 |
| C | 43 | 7 | 0 | | | | | 50 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 153 | 101 | 48 | | | | | 302 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.87 | 23.81 | 5.95 | | | | | 51.63 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 380 | | | | | 440 |
| B | 335 | 0 | 22 | | | | | 357 |
| C | 574 | 106 | 0 | | | | | 680 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 909 | 166 | 402 | | | | | 1477 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 316 | | | | | 316 |
| B | 267 | 0 | 6 | | | | | 273 |
| C | 494 | 86 | 0 | | | | | 580 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 761 | 86 | 323 | | | | | 1169 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 40 | | | | | 40 |
| B | 4 | 0 | 14 | | | | | 19 |
| C | 51 | 18 | 0 | | | | | 69 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 55 | 18 | 55 | | | | | 128 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 20 | | | | | 56 |
| B | 37 | 0 | 1 | | | | | 38 |
| C | 27 | 1 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 64 | 38 | 21 | | | | | 123 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 4 | | | | | 27 |
| B | 27 | 0 | 0 | | | | | 27 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.92 | 23.45 | 3.91 | | | | | 56.28 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / Hollins Lane

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 389 | 494 | | | | | 883 |
| B | 274 | 0 | 48 | | | | | 322 |
| C | 808 | 57 | 0 | | | | | 865 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1082 | 446 | 542 | | | | | 2070 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 331 | 410 | | | | | 741 |
| B | 204 | 0 | 38 | | | | | 241 |
| C | 670 | 39 | 0 | | | | | 709 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 874 | 370 | 447 | | | | | 1691 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 49 | 56 | | | | | 105 |
| B | 45 | 0 | 4 | | | | | 49 |
| C | 85 | 10 | 0 | | | | | 95 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 130 | 59 | 61 | | | | | 250 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 28 | | | | | 33 |
| B | 21 | 0 | 0 | | | | | 21 |
| C | 53 | 2 | 0 | | | | | 55 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 7 | 28 | | | | | 110 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 240 | 524 | | | | | 764 |
| B | 203 | 0 | 42 | | | | | 245 |
| C | 641 | 48 | 0 | | | | | 689 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 844 | 288 | 566 | | | | | 1698 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 201 | 388 | | | | | 589 |
| B | 153 | 0 | 28 | | | | | 181 |
| C | 475 | 33 | 0 | | | | | 508 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 628 | 234 | 416 | | | | | 1278 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 79 | | | | | 109 |
| B | 33 | 0 | 8 | | | | | 41 |
| C | 97 | 9 | 0 | | | | | 106 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 130 | 39 | 87 | | | | | 255 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 56 | | | | | 64 |
| B | 13 | 0 | 0 | | | | | 14 |
| C | 69 | 0 | 0 | | | | | 70 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 82 | 8 | 57 | | | | | 147 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 3.99 | 7.96 | 5.99 | | | | | 17.94 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 389 | 570 | | | | | 960 |
| B | 183 | 0 | 40 | | | | | 222 |
| C | 683 | 54 | 0 | | | | | 737 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 866 | 443 | 610 | | | | | 1919 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 342 | 500 | | | | | 842 |
| B | 154 | 0 | 29 | | | | | 182 |
| C | 614 | 40 | 0 | | | | | 654 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 767 | 382 | 529 | | | | | 1679 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 50 | | | | | 89 |
| B | 20 | 0 | 5 | | | | | 25 |
| C | 46 | 7 | 0 | | | | | 53 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 66 | 47 | 55 | | | | | 167 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 20 | | | | | 24 |
| B | 7 | 0 | 0 | | | | | 7 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 4 | 21 | | | | | 55 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 9.82 | 5.93 | | | | | 17.73 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / A56 Manchester Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 678 | 627 | | | | | 1305 |
| B | 471 | 0 | 71 | | | | | 542 |
| C | 937 | 187 | 0 | | | | | 1124 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1408 | 865 | 698 | | | | | 2971 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 569 | 499 | | | | | 1068 |
| B | 393 | 0 | 54 | | | | | 447 |
| C | 814 | 140 | 0 | | | | | 954 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1207 | 709 | 553 | | | | | 2469 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 64 | 72 | | | | | 136 |
| B | 52 | 0 | 8 | | | | | 61 |
| C | 73 | 31 | 0 | | | | | 105 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 126 | 95 | 80 | | | | | 301 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 36 | | | | | 75 |
| B | 19 | 0 | 9 | | | | | 28 |
| C | 30 | 16 | 0 | | | | | 46 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 55 | 45 | | | | | 149 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 6 | 20 | | | | | 52 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 458 | 683 | | | | | 1140 |
| B | 412 | 0 | 154 | | | | | 566 |
| C | 745 | 232 | 0 | | | | | 977 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1157 | 689 | 837 | | | | | 2683 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 343 | 540 | | | | | 882 |
| B | 317 | 0 | 100 | | | | | 416 |
| C | 584 | 165 | 0 | | | | | 749 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 901 | 508 | 639 | | | | | 2048 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 70 | 85 | | | | | 155 |
| B | 56 | 0 | 31 | | | | | 87 |
| C | 102 | 36 | 0 | | | | | 138 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 159 | 106 | 115 | | | | | 380 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 38 | | | | | 77 |
| B | 33 | 0 | 24 | | | | | 57 |
| C | 36 | 31 | 0 | | | | | 67 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 69 | 70 | 62 | | | | | 201 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.88 | 5.98 | 19.93 | | | | | 53.79 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 597 | 713 | | | | | 1310 |
| B | 504 | 0 | 106 | | | | | 610 |
| C | 886 | 140 | 0 | | | | | 1026 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1390 | 737 | 819 | | | | | 2946 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 540 | 621 | | | | | 1160 |
| B | 434 | 0 | 95 | | | | | 529 |
| C | 780 | 114 | 0 | | | | | 894 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1214 | 654 | 715 | | | | | 2583 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 63 | | | | | 100 |
| B | 46 | 0 | 9 | | | | | 55 |
| C | 74 | 17 | 0 | | | | | 91 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 120 | 53 | 72 | | | | | 245 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 10 | | | | | 24 |
| B | 18 | 0 | 2 | | | | | 21 |
| C | 13 | 9 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 24 | 12 | | | | | 67 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 25.38 | 5.96 | 19.87 | | | | | 51.21 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 26859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1112 | 3500 | 920 | | | | 5532 |
| B | 614 | 0 | 1031 | 4734 | | | | 6379 |
| C | 3312 | 394 | 0 | 1273 | | | | 4979 |
| D | 1260 | 5232 | 2323 | 0 | | | | 8815 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5186 | 6738 | 6854 | 6927 | | | | 25705 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 892 | 2339 | 533 | | | | 3764 |
| B | 563 | 0 | 749 | 2370 | | | | 3682 |
| C | 2279 | 266 | 0 | 686 | | | | 3231 |
| D | 663 | 2526 | 1346 | 0 | | | | 4535 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3505 | 3684 | 4434 | 3589 | | | | 15212 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 173 | 717 | 143 | | | | 1033 |
| B | 42 | 0 | 86 | 847 | | | | 975 |
| C | 506 | 64 | 0 | 413 | | | | 983 |
| D | 350 | 980 | 555 | 0 | | | | 1885 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 898 | 1217 | 1358 | 1403 | | | | 4876 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 444 | 244 | | | | 735 |
| B | 9 | 0 | 196 | 1517 | | | | 1722 |
| C | 527 | 64 | 0 | 174 | | | | 765 |
| D | 247 | 1726 | 422 | 0 | | | | 2395 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 783 | 1837 | 1062 | 1935 | | | | 5617 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 877 | 1948 | 989 | | | | 3814 |
| B | 500 | 0 | 628 | 5318 | | | | 6446 |
| C | 2692 | 328 | 0 | 877 | | | | 3897 |
| D | 1176 | 5280 | 2112 | 0 | | | | 8568 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4368 | 6485 | 4688 | 7184 | | | | 22725 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 692 | 1202 | 405 | | | | 2299 |
| B | 487 | 0 | 426 | 2578 | | | | 3491 |
| C | 1751 | 187 | 0 | 390 | | | | 2328 |
| D | 423 | 2401 | 1099 | 0 | | | | 3923 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2661 | 3280 | 2727 | 3373 | | | | 12041 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 123 | 433 | 223 | | | | 779 |
| B | 13 | 0 | 100 | 1106 | | | | 1219 |
| C | 507 | 57 | 0 | 253 | | | | 817 |
| D | 284 | 1000 | 485 | 0 | | | | 1769 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 804 | 1180 | 1018 | 1582 | | | | 4584 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 313 | 361 | | | | 736 |
| B | 0 | 0 | 102 | 1634 | | | | 1736 |
| C | 434 | 84 | 0 | 234 | | | | 752 |
| D | 469 | 1879 | 528 | 0 | | | | 2876 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 903 | 2025 | 943 | 2229 | | | | 6100 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 928 | 2715 | 992 | | | | 4635 |
| B | 354 | 0 | 914 | 5467 | | | | 6735 |
| C | 3890 | 387 | 0 | 923 | | | | 5200 |
| D | 1448 | 5121 | 2423 | 0 | | | | 8992 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5692 | 6436 | 6052 | 7382 | | | | 25562 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 842 | 2268 | 641 | | | | 3751 |
| B | 341 | 0 | 857 | 3585 | | | | 4783 |
| C | 3133 | 286 | 0 | 631 | | | | 4050 |
| D | 1012 | 3425 | 1712 | 0 | | | | 6149 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4486 | 4553 | 4837 | 4857 | | | | 18733 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 83 | 353 | 171 | | | | 607 |
| B | 13 | 0 | 34 | 775 | | | | 822 |
| C | 506 | 72 | 0 | 250 | | | | 828 |
| D | 249 | 720 | 435 | 0 | | | | 1404 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 768 | 875 | 822 | 1196 | | | | 3661 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 94 | 180 | | | | 277 |
| B | 0 | 0 | 23 | 1107 | | | | 1130 |
| C | 251 | 29 | 0 | 42 | | | | 322 |
| D | 187 | 976 | 276 | 0 | | | | 1439 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 438 | 1008 | 393 | 1329 | | | | 3168 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | JTC 20 - A627 SB |
| B | 2727 | 2724 | 2723 | 2725 | JTC 20 - M62 WB |
| C | 2768 | 4932 | 4929 | 2767 | JTC 20 - A627 NB |
| D | 2719 | 2721 | 2722 | 2720 | JTC 20 - M62 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 262 | 974 | 1002 | | | | 2238 |
| B | 208 | 0 | 1103 | 5022 | | | | 6333 |
| C | 989 | 836 | 0 | 1221 | | | | 3046 |
| D | 960 | 5448 | 1057 | 0 | | | | 7465 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2157 | 6546 | 3134 | 7245 | | | | 19082 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 192 | 751 | 605 | | | | 1548 |
| B | 177 | 0 | 786 | 2582 | | | | 3545 |
| C | 803 | 461 | 0 | 820 | | | | 2084 |
| D | 544 | 2756 | 691 | 0 | | | | 3991 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1524 | 3409 | 2228 | 4007 | | | | 11168 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 99 | 147 | | | | 274 |
| B | 25 | 0 | 154 | 796 | | | | 975 |
| C | 111 | 112 | 0 | 194 | | | | 417 |
| D | 145 | 975 | 196 | 0 | | | | 1316 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 281 | 1115 | 449 | 1137 | | | | 2982 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 124 | 250 | | | | 416 |
| B | 6 | 0 | 163 | 1644 | | | | 1813 |
| C | 75 | 263 | 0 | 207 | | | | 545 |
| D | 271 | 1717 | 170 | 0 | | | | 2158 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 352 | 2022 | 457 | 2101 | | | | 4932 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 132 | 802 | 771 | | | | 1705 |
| B | 252 | 0 | 964 | 4865 | | | | 6081 |
| C | 311 | 687 | 0 | 858 | | | | 1856 |
| D | 816 | 5617 | 755 | 0 | | | | 7188 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1379 | 6436 | 2521 | 6494 | | | | 16830 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 568 | 405 | | | | 1049 |
| B | 92 | 0 | 449 | 2498 | | | | 3039 |
| C | 135 | 327 | 0 | 575 | | | | 1037 |
| D | 539 | 2624 | 529 | 0 | | | | 3692 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 766 | 3027 | 1546 | 3478 | | | | 8817 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 116 | 147 | | | | 281 |
| B | 22 | 0 | 176 | 834 | | | | 1032 |
| C | 105 | 114 | 0 | 201 | | | | 420 |
| D | 147 | 982 | 133 | 0 | | | | 1262 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 274 | 1114 | 425 | 1182 | | | | 2995 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 118 | 219 | | | | 375 |
| B | 138 | 0 | 339 | 1533 | | | | 2010 |
| C | 71 | 246 | 0 | 82 | | | | 399 |
| D | 130 | 2011 | 93 | 0 | | | | 2234 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 339 | 2295 | 550 | 1834 | | | | 5018 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 248 | 925 | 1092 | | | | 2265 |
| B | 183 | 0 | 1081 | 4523 | | | | 5787 |
| C | 964 | 940 | 0 | 1217 | | | | 3121 |
| D | 654 | 5490 | 1023 | 0 | | | | 7167 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1801 | 6678 | 3029 | 6832 | | | | 18340 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 192 | 685 | 733 | | | | 1610 |
| B | 129 | 0 | 850 | 2931 | | | | 3910 |
| C | 831 | 704 | 0 | 977 | | | | 2512 |
| D | 512 | 3835 | 881 | 0 | | | | 5228 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1472 | 4731 | 2416 | 4641 | | | | 13260 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 117 | 136 | | | | 279 |
| B | 13 | 0 | 97 | 574 | | | | 684 |
| C | 104 | 135 | 0 | 148 | | | | 387 |
| D | 92 | 705 | 99 | 0 | | | | 896 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 209 | 866 | 313 | 858 | | | | 2246 |

MODELLED — HGV

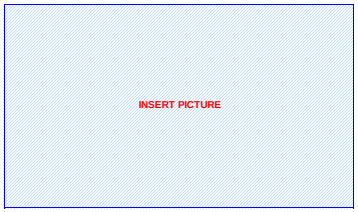
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 123 | 223 | | | | 376 |
| B | 41 | 0 | 134 | 1018 | | | | 1193 |
| C | 29 | 101 | 0 | 92 | | | | 222 |
| D | 50 | 950 | 43 | 0 | | | | 1043 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 120 | 1081 | 300 | 1333 | | | | 2834 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J19




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | *JTC 21 - M60 SB* |
| B | 14141 | 5666 | 5093 | 14141 | *JTC 21 - A576 WB* |
| C | 5668 | 5665 | 5667 | 5669 | *JTC 21 - M60 NB* |
| D | 3414 | 5096 | 5095 | 3414 | *JTC 21 - A576 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 666 | 0 | 972 | | | | 1638 |
| B | 439 | 0 | 282 | 483 | | | | 1204 |
| C | 0 | 316 | 22 | 516 | | | | 854 |
| D | 543 | 318 | 788 | 0 | | | | 1649 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 982 | 1300 | 1092 | 1971 | | | | 5345 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 501 | 0 | 807 | | | | 1308 |
| B | 323 | 0 | 181 | 423 | | | | 927 |
| C | 0 | 199 | 20 | 427 | | | | 646 |
| D | 438 | 285 | 680 | 0 | | | | 1403 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 761 | 985 | 881 | 1657 | | | | 4284 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 103 | 0 | 78 | | | | 181 |
| B | 45 | 0 | 83 | 56 | | | | 184 |
| C | 0 | 67 | 2 | 69 | | | | 138 |
| D | 57 | 25 | 89 | 0 | | | | 171 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 102 | 195 | 174 | 203 | | | | 674 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 0 | 87 | | | | 149 |
| B | 71 | 0 | 18 | 4 | | | | 93 |
| C | 0 | 50 | 0 | 20 | | | | 70 |
| D | 48 | 8 | 19 | 0 | | | | 75 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 119 | 120 | 37 | 111 | | | | 387 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 415 | 0 | 696 | | | | 1111 |
| B | 272 | 0 | 251 | 343 | | | | 866 |
| C | 0 | 375 | 39 | 546 | | | | 960 |
| D | 561 | 503 | 663 | 0 | | | | 1727 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 833 | 1293 | 953 | 1585 | | | | 4664 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 279 | 0 | 547 | | | | 826 |
| B | 206 | 0 | 145 | 300 | | | | 651 |
| C | 0 | 216 | 39 | 435 | | | | 690 |
| D | 379 | 437 | 514 | 0 | | | | 1330 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 585 | 932 | 698 | 1282 | | | | 3497 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 83 | 0 | 94 | | | | 177 |
| B | 38 | 0 | 41 | 37 | | | | 116 |
| C | 0 | 86 | 0 | 75 | | | | 161 |
| D | 104 | 56 | 107 | 0 | | | | 267 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 142 | 225 | 148 | 206 | | | | 721 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 0 | 55 | | | | 108 |
| B | 28 | 0 | 65 | 6 | | | | 99 |
| C | 0 | 73 | 0 | 36 | | | | 109 |
| D | 78 | 10 | 42 | 0 | | | | 130 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 106 | 136 | 107 | 97 | | | | 446 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 455 | 0 | 1167 | | | | 1622 |
| B | 219 | 0 | 151 | 609 | | | | 979 |
| C | 5 | 376 | 3 | 506 | | | | 890 |
| D | 866 | 852 | 787 | 0 | | | | 2505 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1090 | 1683 | 941 | 2282 | | | | 5996 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 367 | 0 | 1091 | | | | 1458 |
| B | 188 | 0 | 116 | 552 | | | | 856 |
| C | 4 | 306 | 3 | 453 | | | | 766 |
| D | 752 | 789 | 714 | 0 | | | | 2255 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 944 | 1462 | 833 | 2096 | | | | 5335 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 0 | 56 | | | | 119 |
| B | 25 | 0 | 28 | 53 | | | | 106 |
| C | 1 | 50 | 0 | 53 | | | | 104 |
| D | 97 | 61 | 66 | 0 | | | | 224 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 123 | 174 | 94 | 162 | | | | 553 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 0 | 20 | | | | 45 |
| B | 6 | 0 | 7 | 4 | | | | 17 |
| C | 0 | 20 | 0 | 0 | | | | 20 |
| D | 17 | 2 | 7 | 0 | | | | 26 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 23 | 47 | 14 | 24 | | | | 108 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A576 Middleton Road / A6045 Heywood Old Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 3 | 513 | | | | 533 |
| B | 78 | 0 | 4 | 694 | | | | 776 |
| C | 5 | 4 | 0 | 15 | | | | 24 |
| D | 517 | 791 | 8 | 0 | | | | 1316 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 600 | 812 | 15 | 1222 | | | | 2649 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 2 | 379 | | | | 388 |
| B | 54 | 0 | 1 | 537 | | | | 592 |
| C | 3 | 2 | 0 | 11 | | | | 17 |
| D | 403 | 576 | 6 | 0 | | | | 985 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 460 | 585 | 9 | 927 | | | | 1982 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 0 | 107 | | | | 114 |
| B | 9 | 0 | 1 | 75 | | | | 85 |
| C | 1 | 1 | 0 | 3 | | | | 5 |
| D | 74 | 120 | 1 | 0 | | | | 195 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 85 | 128 | 2 | 185 | | | | 399 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 0 | 28 | | | | 31 |
| B | 15 | 0 | 2 | 64 | | | | 81 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 40 | 80 | 1 | 0 | | | | 121 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 55 | 83 | 3 | 93 | | | | 234 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 34 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 80 | 7 | 268 | | | | 355 |
| B | 101 | 0 | 6 | 607 | | | | 714 |
| C | 5 | 5 | 0 | 9 | | | | 19 |
| D | 533 | 771 | 9 | 0 | | | | 1313 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 640 | 856 | 21 | 884 | | | | 2402 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 67 | 5 | 194 | | | | 265 |
| B | 64 | 0 | 4 | 451 | | | | 518 |
| C | 3 | 3 | 0 | 7 | | | | 13 |
| D | 381 | 545 | 7 | 0 | | | | 933 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 447 | 616 | 15 | 651 | | | | 1729 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 1 | 36 | | | | 46 |
| B | 11 | 0 | 1 | 78 | | | | 91 |
| C | 1 | 1 | 0 | 1 | | | | 4 |
| D | 95 | 129 | 1 | 0 | | | | 226 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 108 | 139 | 4 | 116 | | | | 367 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 1 | 38 | | | | 44 |
| B | 26 | 0 | 1 | 60 | | | | 87 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 57 | 78 | 1 | 0 | | | | 136 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 84 | 84 | 2 | 99 | | | | 270 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.82 | 0 | 17.94 | | | | 35.76 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 79 | 2 | 353 | | | | 435 |
| B | 139 | 0 | 5 | 635 | | | | 778 |
| C | 4 | 6 | 0 | 6 | | | | 15 |
| D | 730 | 960 | 11 | 0 | | | | 1700 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 873 | 1045 | 18 | 993 | | | | 2929 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 72 | 2 | 308 | | | | 382 |
| B | 128 | 0 | 4 | 545 | | | | 677 |
| C | 3 | 4 | 0 | 4 | | | | 12 |
| D | 637 | 816 | 9 | 0 | | | | 1462 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 768 | 893 | 15 | 856 | | | | 2533 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 0 | 38 | | | | 44 |
| B | 9 | 0 | 0 | 67 | | | | 76 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 74 | 99 | 1 | 0 | | | | 174 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 84 | 106 | 2 | 106 | | | | 297 |

HGV

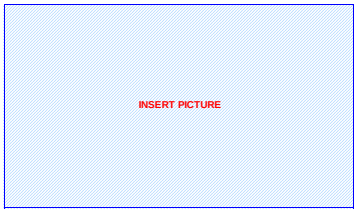
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 0 | 7 | | | | 8 |
| B | 1 | 0 | 0 | 8 | | | | 9 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 19 | 27 | 1 | 0 | | | | 47 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 21 | 29 | 1 | 16 | | | | 67 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 17 | 0 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.16 | 0 | 15.61 | | | | 32.77 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 93 | 1028 | | | | | 1120 |
| B | 0 | 0 | 1092 | | | | | 1092 |
| C | 1905 | 705 | 0 | | | | | 2610 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1905 | 798 | 2120 | | | | | 4823 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 775 | | | | | 846 |
| B | 0 | 0 | 766 | | | | | 766 |
| C | 1463 | 535 | 0 | | | | | 1998 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1463 | 606 | 1540 | | | | | 3609 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 106 | | | | | 119 |
| B | 0 | 0 | 231 | | | | | 231 |
| C | 177 | 113 | 0 | | | | | 291 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 177 | 127 | 338 | | | | | 641 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 118 | | | | | 126 |
| B | 0 | 0 | 95 | | | | | 95 |
| C | 235 | 57 | 0 | | | | | 292 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 235 | 65 | 213 | | | | | 513 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 29 | | | | | 29 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 0 | 29 | | | | | 60 |

### Model_2_Heywood_DS1b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 1004 | | | | | 1034 |
| B | 0 | 0 | 976 | | | | | 976 |
| C | 1603 | 605 | 0 | | | | | 2208 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1603 | 635 | 1980 | | | | | 4217 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 734 | | | | | 754 |
| B | 0 | 0 | 650 | | | | | 650 |
| C | 1154 | 399 | 0 | | | | | 1553 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1154 | 420 | 1384 | | | | | 2957 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 118 | | | | | 123 |
| B | 0 | 0 | 200 | | | | | 200 |
| C | 222 | 142 | 0 | | | | | 363 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 222 | 147 | 319 | | | | | 687 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 122 | | | | | 126 |
| B | 0 | 0 | 126 | | | | | 126 |
| C | 196 | 64 | 0 | | | | | 260 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 196 | 68 | 248 | | | | | 512 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.58 | 0 | 29.65 | | | | | 61.23 |

### Model_3_Heywood_DS1b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 1112 | | | | | 1117 |
| B | 0 | 0 | 1076 | | | | | 1076 |
| C | 1819 | 731 | 0 | | | | | 2550 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1819 | 735 | 2189 | | | | | 4743 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 1002 | | | | | 1004 |
| B | 0 | 0 | 957 | | | | | 957 |
| C | 1587 | 607 | 0 | | | | | 2194 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1587 | 609 | 1960 | | | | | 4156 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 60 | | | | | 62 |
| B | 0 | 0 | 93 | | | | | 93 |
| C | 147 | 86 | 0 | | | | | 233 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 147 | 87 | 154 | | | | | 388 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 23 | | | | | 24 |
| B | 0 | 0 | 25 | | | | | 25 |
| C | 56 | 38 | 0 | | | | | 94 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 39 | 48 | | | | | 143 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.56 | 0 | 27.18 | | | | | 55.74 |

## Run 13 - 2039 Do Something 3a - Origin-Destination Matrices

- Policy Off (Non Vision-Led)
- including all of the JPA1.1 Allocation Site & all of the JPA1.2 Allocation Site
- excluding the M62 Access solution
- including Common Highway Mitigation Package and J18 DCO works
- Whittle Lane capacity constrained and South Heywood Link Closed

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60057 | 60011 | 4924 | 2718 | C1-M62 WC1-M62 West |
| E | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizab |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 261 | 271 | 491 | 10 | | | 1033 |
| B | 225 | 0 | 122 | 0 | 727 | | | 1074 |
| C | 263 | 291 | 0 | 295 | 118 | | | 967 |
| D | 208 | 0 | 116 | 2 | 470 | | | 796 |
| E | 2 | 521 | 131 | 202 | 0 | | | 856 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 698 | 1073 | 640 | 990 | 1325 | | | 4726 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 174 | 195 | 322 | 9 | | | 700 |
| B | 141 | 0 | 84 | 0 | 329 | | | 554 |
| C | 210 | 215 | 0 | 238 | 67 | | | 730 |
| D | 103 | 0 | 93 | 0 | 269 | | | 465 |
| E | 1 | 185 | 71 | 151 | 0 | | | 408 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 455 | 574 | 443 | 711 | 674 | | | 2857 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 64 | 65 | 67 | 1 | | | 197 |
| B | 37 | 0 | 34 | 0 | 71 | | | 142 |
| C | 47 | 31 | 0 | 50 | 17 | | | 145 |
| D | 61 | 0 | 14 | 1 | 42 | | | 118 |
| E | 1 | 57 | 12 | 27 | 0 | | | 97 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 146 | 152 | 125 | 145 | 131 | | | 699 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 11 | 102 | 0 | | | 136 |
| B | 47 | 0 | 4 | 0 | 327 | | | 378 |
| C | 6 | 45 | 0 | 7 | 34 | | | 92 |
| D | 44 | 0 | 9 | 1 | 159 | | | 213 |
| E | 0 | 279 | 48 | 24 | 0 | | | 351 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 97 | 347 | 72 | 134 | 520 | | | 1170 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 257 | 267 | 295 | 1 | | | 820 |
| B | 181 | 0 | 126 | 0 | 471 | | | 778 |
| C | 206 | 265 | 0 | 298 | 119 | | | 888 |
| D | 228 | 0 | 114 | 8 | 334 | | | 684 |
| E | 8 | 537 | 115 | 95 | 0 | | | 755 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 623 | 1059 | 622 | 696 | 925 | | | 3925 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 168 | 217 | 151 | 1 | | | 537 |
| B | 101 | 0 | 91 | 0 | 190 | | | 382 |
| C | 155 | 139 | 0 | 175 | 64 | | | 533 |
| D | 95 | 0 | 71 | 0 | 82 | | | 248 |
| E | 5 | 222 | 60 | 27 | 0 | | | 314 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 356 | 529 | 439 | 353 | 337 | | | 2014 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 57 | 36 | 62 | 0 | | | 155 |
| B | 42 | 0 | 25 | 0 | 53 | | | 120 |
| C | 35 | 41 | 0 | 74 | 13 | | | 163 |
| D | 59 | 0 | 37 | 1 | 45 | | | 142 |
| E | 3 | 55 | 15 | 12 | 0 | | | 85 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 139 | 153 | 113 | 149 | 111 | | | 665 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 14 | 82 | 0 | | | 128 |
| B | 38 | 0 | 10 | 0 | 228 | | | 276 |
| C | 16 | 85 | 0 | 49 | 42 | | | 192 |
| D | 74 | 0 | 6 | 7 | 207 | | | 294 |
| E | 0 | 260 | 40 | 56 | 0 | | | 356 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 128 | 377 | 70 | 194 | 477 | | | 1246 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 240 | 299 | 334 | 4 | | | 877 |
| B | 224 | 0 | 154 | 0 | 482 | | | 860 |
| C | 254 | 245 | 0 | 352 | 70 | | | 921 |
| D | 277 | 0 | 217 | 0 | 402 | | | 896 |
| E | 9 | 626 | 129 | 53 | 0 | | | 817 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 764 | 1111 | 799 | 739 | 958 | | | 4371 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 186 | 264 | 287 | 2 | | | 739 |
| B | 163 | 0 | 119 | 0 | 263 | | | 545 |
| C | 232 | 197 | 0 | 278 | 52 | | | 759 |
| D | 210 | 0 | 176 | 0 | 286 | | | 672 |
| E | 8 | 470 | 98 | 40 | 0 | | | 616 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 613 | 853 | 657 | 605 | 603 | | | 3331 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 30 | 30 | 2 | | | 101 |
| B | 36 | 0 | 27 | 0 | 32 | | | 95 |
| C | 20 | 34 | 0 | 46 | 5 | | | 105 |
| D | 38 | 0 | 35 | 0 | 29 | | | 102 |
| E | 1 | 33 | 7 | 2 | 0 | | | 43 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 106 | 99 | 78 | 68 | | | 446 |

MODELLED — HGV — To Arm / From Arm

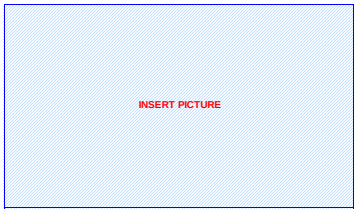
| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 5 | 17 | 0 | | | 37 |
| B | 25 | 0 | 8 | 0 | 187 | | | 220 |
| C | 2 | 14 | 0 | 28 | 13 | | | 57 |
| D | 29 | 0 | 6 | 0 | 87 | | | 122 |
| E | 0 | 123 | 24 | 11 | 0 | | | 158 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 152 | 43 | 56 | 287 | | | 594 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | 045 Manchester Road |
| B | 60003 | 60010 | 60010 | 60003 | d Queen Elizabeth Wa |
| C | 2814 | 60010 | 60010 | 2814 | 045 Manchester Road |
| D | 60008 | 60010 | 60010 | 60008 | d Queen Elizabeth Wa |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 195 | 221 | 85 | | | | 500 |
| B | 149 | 0 | 207 | 972 | | | | 1328 |
| C | 353 | 122 | 0 | 141 | | | | 616 |
| D | 81 | 540 | 43 | 0 | | | | 663 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 583 | 856 | 471 | 1198 | | | | 3108 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 150 | 189 | 66 | | | | 405 |
| B | 126 | 0 | 158 | 393 | | | | 677 |
| C | 313 | 98 | 0 | 120 | | | | 531 |
| D | 55 | 160 | 37 | 0 | | | | 252 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 494 | 408 | 384 | 579 | | | | 1864 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 21 | 18 | | | | 72 |
| B | 12 | 0 | 45 | 74 | | | | 131 |
| C | 28 | 21 | 0 | 10 | | | | 60 |
| D | 15 | 44 | 5 | 0 | | | | 64 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 97 | 71 | 103 | | | | 327 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 9 | 0 | | | | 21 |
| B | 11 | 0 | 4 | 505 | | | | 520 |
| C | 13 | 2 | 0 | 11 | | | | 26 |
| D | 10 | 337 | 1 | 0 | | | | 348 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 351 | 14 | 516 | | | | 915 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 196 | 72 | | | | 309 |
| B | 104 | 0 | 165 | 655 | | | | 924 |
| C | 394 | 189 | 0 | 96 | | | | 680 |
| D | 58 | 524 | 66 | 0 | | | | 648 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 555 | 755 | 427 | 823 | | | | 2560 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 153 | 52 | | | | 230 |
| B | 78 | 0 | 127 | 133 | | | | 337 |
| C | 297 | 151 | 0 | 58 | | | | 506 |
| D | 36 | 138 | 48 | 0 | | | | 221 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 411 | 313 | 328 | 243 | | | | 1295 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 33 | 18 | | | | 58 |
| B | 14 | 0 | 34 | 63 | | | | 111 |
| C | 55 | 32 | 0 | 19 | | | | 106 |
| D | 18 | 46 | 7 | 0 | | | | 71 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 86 | 85 | 75 | 99 | | | | 346 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 8 | 1 | | | | 19 |
| B | 13 | 0 | 4 | 460 | | | | 477 |
| C | 40 | 6 | 0 | 20 | | | | 65 |
| D | 3 | 341 | 11 | 0 | | | | 355 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 356 | 22 | 482 | | | | 916 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 272 | 56 | | | | 364 |
| B | 137 | 0 | 231 | 592 | | | | 960 |
| C | 487 | 337 | 0 | 92 | | | | 916 |
| D | 109 | 445 | 94 | 0 | | | | 648 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 732 | 819 | 597 | 740 | | | | 2888 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 241 | 38 | | | | 304 |
| B | 118 | 0 | 204 | 284 | | | | 605 |
| C | 424 | 310 | 0 | 74 | | | | 809 |
| D | 90 | 282 | 82 | 0 | | | | 455 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 633 | 617 | 527 | 395 | | | | 2172 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 23 | 16 | | | | 42 |
| B | 12 | 0 | 24 | 32 | | | | 68 |
| C | 44 | 25 | 0 | 10 | | | | 80 |
| D | 10 | 15 | 8 | 0 | | | | 33 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 67 | 43 | 55 | 58 | | | | 223 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 6 | 2 | | | | 16 |
| B | 6 | 0 | 4 | 277 | | | | 287 |
| C | 17 | 1 | 0 | 8 | | | | 26 |
| D | 8 | 148 | 3 | 0 | | | | 159 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 158 | 13 | 287 | | | | 488 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.91 | 0 | 1.96 | 0 | | | | 3.87 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Hill Top Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | rehills Rd EB |
| B | 60036 | 60031 | 60031 | 60036 | ill Top Road |
| C | 60230 | 7454 | 7454 | 60230 | rehills Rd SB |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 123 | 491 | 49 | | | | 663 |
| B | 94 | 0 | 15 | 2 | | | | 111 |
| C | 1012 | 69 | 0 | 159 | | | | 1240 |
| D | 49 | 0 | 53 | 0 | | | | 102 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1155 | 192 | 559 | 210 | | | | 2116 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 147 | 39 | | | | 246 |
| B | 11 | 0 | 2 | 0 | | | | 13 |
| C | 513 | 43 | 0 | 65 | | | | 621 |
| D | 15 | 0 | 3 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 539 | 103 | 152 | 104 | | | | 898 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 55 | 6 | | | | 70 |
| B | 8 | 0 | 1 | 1 | | | | 10 |
| C | 79 | 5 | 0 | 19 | | | | 103 |
| D | 15 | 0 | 2 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 102 | 14 | 58 | 26 | | | | 200 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 289 | 4 | | | | 347 |
| B | 75 | 0 | 12 | 1 | | | | 88 |
| C | 420 | 21 | 0 | 75 | | | | 516 |
| D | 19 | 0 | 48 | 0 | | | | 67 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 514 | 75 | 349 | 80 | | | | 1018 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 503 | 27 | | | | 608 |
| B | 92 | 0 | 46 | 1 | | | | 139 |
| C | 646 | 48 | 0 | 113 | | | | 807 |
| D | 63 | 2 | 89 | 0 | | | | 154 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 801 | 128 | 638 | 141 | | | | 1708 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 185 | 21 | | | | 230 |
| B | 32 | 0 | 13 | 0 | | | | 45 |
| C | 200 | 8 | 0 | 20 | | | | 228 |
| D | 34 | 1 | 15 | 0 | | | | 50 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 266 | 33 | 213 | 41 | | | | 553 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 50 | 5 | | | | 67 |
| B | 16 | 0 | 8 | 1 | | | | 25 |
| C | 68 | 8 | 0 | 22 | | | | 98 |
| D | 18 | 1 | 12 | 0 | | | | 31 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 102 | 21 | 70 | 28 | | | | 221 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 268 | 1 | | | | 311 |
| B | 44 | 0 | 25 | 0 | | | | 69 |
| C | 378 | 32 | 0 | 71 | | | | 481 |
| D | 11 | 0 | 62 | 0 | | | | 73 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 433 | 74 | 355 | 72 | | | | 934 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 573 | 12 | | | | 636 |
| B | 98 | 0 | 51 | 0 | | | | 149 |
| C | 583 | 25 | 0 | 52 | | | | 660 |
| D | 140 | 0 | 61 | 0 | | | | 201 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 821 | 76 | 685 | 64 | | | | 1646 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 417 | 11 | | | | 448 |
| B | 70 | 0 | 31 | 0 | | | | 101 |
| C | 298 | 12 | 0 | 10 | | | | 320 |
| D | 105 | 0 | 40 | 0 | | | | 145 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 473 | 32 | 488 | 21 | | | | 1014 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 29 | 1 | | | | 32 |
| B | 4 | 0 | 8 | 0 | | | | 12 |
| C | 48 | 1 | 0 | 4 | | | | 53 |
| D | 12 | 0 | 1 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 64 | 3 | 38 | 5 | | | | 110 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 127 | 0 | | | | 156 |
| B | 24 | 0 | 12 | 0 | | | | 36 |
| C | 237 | 12 | 0 | 38 | | | | 287 |
| D | 23 | 0 | 20 | 0 | | | | 43 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 284 | 41 | 159 | 38 | | | | 522 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Pilsworth Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 183 | 474 | | | | | 658 |
| B | 511 | 0 | 190 | | | | | 701 |
| C | 902 | 254 | 0 | | | | | 1156 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1413 | 437 | 664 | | | | | 2515 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 124 | 113 | | | | | 236 |
| B | 339 | 0 | 133 | | | | | 472 |
| C | 358 | 181 | 0 | | | | | 539 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 697 | 305 | 246 | | | | | 1248 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 40 | | | | | 63 |
| B | 58 | 0 | 31 | | | | | 89 |
| C | 57 | 45 | 0 | | | | | 102 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 115 | 68 | 71 | | | | | 254 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 322 | | | | | 358 |
| B | 114 | 0 | 25 | | | | | 139 |
| C | 487 | 28 | 0 | | | | | 515 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 601 | 64 | 347 | | | | | 1013 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 303 | 470 | | | | | 773 |
| B | 311 | 0 | 138 | | | | | 449 |
| C | 616 | 186 | 0 | | | | | 802 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 927 | 489 | 607 | | | | | 2024 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 145 | 142 | | | | | 287 |
| B | 171 | 0 | 88 | | | | | 259 |
| C | 156 | 111 | 0 | | | | | 267 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 327 | 256 | 230 | | | | | 813 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 41 | | | | | 78 |
| B | 43 | 0 | 25 | | | | | 68 |
| C | 63 | 38 | 0 | | | | | 102 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 106 | 75 | 66 | | | | | 248 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 121 | 286 | | | | | 407 |
| B | 97 | 0 | 25 | | | | | 122 |
| C | 397 | 37 | 0 | | | | | 434 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 494 | 158 | 311 | | | | | 963 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 382 | 482 | | | | | 864 |
| B | 265 | 0 | 155 | | | | | 421 |
| C | 539 | 281 | 0 | | | | | 821 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 805 | 663 | 637 | | | | | 2105 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 306 | 322 | | | | | 629 |
| B | 202 | 0 | 127 | | | | | 329 |
| C | 231 | 243 | 0 | | | | | 473 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 433 | 549 | 449 | | | | | 1431 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 14 | | | | | 40 |
| B | 12 | 0 | 18 | | | | | 31 |
| C | 35 | 28 | 0 | | | | | 63 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 48 | 54 | 32 | | | | | 134 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 146 | | | | | 196 |
| B | 51 | 0 | 10 | | | | | 61 |
| C | 273 | 10 | 0 | | | | | 284 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 325 | 60 | 156 | | | | | 541 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / A58 Bury St

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 537 | 145 | | | | | 682 |
| B | 592 | 0 | 504 | | | | | 1097 |
| C | 281 | 308 | 0 | | | | | 589 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 873 | 845 | 649 | | | | | 2368 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 328 | 121 | | | | | 449 |
| B | 388 | 0 | 315 | | | | | 704 |
| C | 232 | 256 | 0 | | | | | 489 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 621 | 584 | 437 | | | | | 1642 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 103 | 17 | | | | | 119 |
| B | 112 | 0 | 53 | | | | | 164 |
| C | 37 | 24 | 0 | | | | | 61 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 148 | 127 | 69 | | | | | 345 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 97 | 7 | | | | | 104 |
| B | 83 | 0 | 117 | | | | | 200 |
| C | 12 | 10 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 106 | 124 | | | | | 325 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 19 | | | | | 29 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 28 | 19 | | | | | 57 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 519 | 162 | | | | | 681 |
| B | 485 | 0 | 331 | | | | | 816 |
| C | 145 | 346 | 0 | | | | | 491 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 630 | 865 | 494 | | | | | 1988 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 356 | 132 | | | | | 488 |
| B | 329 | 0 | 203 | | | | | 532 |
| C | 112 | 174 | 0 | | | | | 287 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 442 | 530 | 335 | | | | | 1307 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 94 | 19 | | | | | 113 |
| B | 86 | 0 | 42 | | | | | 129 |
| C | 21 | 29 | 0 | | | | | 50 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 107 | 123 | 61 | | | | | 291 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 12 | | | | | 71 |
| B | 59 | 0 | 66 | | | | | 125 |
| C | 13 | 125 | 0 | | | | | 137 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 184 | 78 | | | | | 333 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.89 | 27.75 | 19.77 | | | | | 57.41 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 538 | 127 | | | | | 665 |
| B | 565 | 0 | 345 | | | | | 910 |
| C | 209 | 313 | 0 | | | | | 522 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 774 | 851 | 471 | | | | | 2097 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 478 | 111 | | | | | 590 |
| B | 487 | 0 | 274 | | | | | 761 |
| C | 186 | 266 | 0 | | | | | 452 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 673 | 744 | 386 | | | | | 1803 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 11 | | | | | 55 |
| B | 55 | 0 | 29 | | | | | 84 |
| C | 19 | 24 | 0 | | | | | 43 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 68 | 40 | | | | | 182 |

MODELLED — HGV

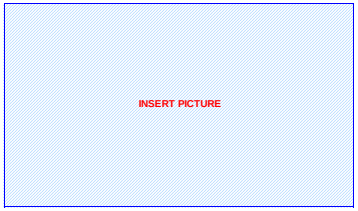
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 4 | | | | | 12 |
| B | 15 | 0 | 22 | | | | | 37 |
| C | 5 | 6 | 0 | | | | | 10 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 14 | 26 | | | | | 59 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 19 | | | | | 27 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.77 | 25.49 | 19.42 | | | | | 52.68 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / Heywood Distribution Centre




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | Pilsworth Rd NB |
| B | 20430 | 7459 | 7459 | 20430 | ywood Distribution Cer |
| C | 2813 | 7459 | 7459 | 2813 | Pilsworth Rd SB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 188 | 494 | | | | | 681 |
| B | 169 | 0 | 164 | | | | | 333 |
| C | 1065 | 348 | 0 | | | | | 1413 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1234 | 536 | 658 | | | | | 2427 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 133 | 195 | | | | | 328 |
| B | 33 | 0 | 42 | | | | | 74 |
| C | 528 | 169 | 0 | | | | | 697 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 561 | 302 | 236 | | | | | 1100 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 44 | | | | | 56 |
| B | 29 | 0 | 19 | | | | | 48 |
| C | 81 | 33 | 0 | | | | | 115 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 111 | 45 | 63 | | | | | 219 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 255 | | | | | 297 |
| B | 107 | 0 | 104 | | | | | 210 |
| C | 455 | 146 | 0 | | | | | 601 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 562 | 188 | 358 | | | | | 1109 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 109 | 571 | | | | | 679 |
| B | 216 | 0 | 202 | | | | | 419 |
| C | 640 | 287 | 0 | | | | | 927 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 857 | 396 | 773 | | | | | 2025 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 194 | | | | | 252 |
| B | 83 | 0 | 93 | | | | | 176 |
| C | 247 | 81 | 0 | | | | | 327 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 329 | 139 | 287 | | | | | 755 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 50 | | | | | 73 |
| B | 35 | 0 | 28 | | | | | 63 |
| C | 72 | 35 | 0 | | | | | 106 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 106 | 57 | 78 | | | | | 242 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 327 | | | | | 355 |
| B | 99 | 0 | 80 | | | | | 179 |
| C | 322 | 172 | 0 | | | | | 494 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 421 | 200 | 407 | | | | | 1028 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 710 | | | | | 759 |
| B | 207 | 0 | 154 | | | | | 361 |
| C | 640 | 165 | 0 | | | | | 805 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 847 | 215 | 864 | | | | | 1926 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 511 | | | | | 540 |
| B | 160 | 0 | 118 | | | | | 278 |
| C | 376 | 57 | 0 | | | | | 433 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 536 | 86 | 629 | | | | | 1251 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 34 | | | | | 38 |
| B | 15 | 0 | 6 | | | | | 21 |
| C | 34 | 14 | 0 | | | | | 48 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 18 | 40 | | | | | 106 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 165 | | | | | 182 |
| B | 32 | 0 | 30 | | | | | 63 |
| C | 231 | 94 | 0 | | | | | 325 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 263 | 110 | 196 | | | | | 569 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / JPA1.1 & SHDA employment

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | Pilsworth Rd SB |
| B | 60027 | 60229 | 60229 | 60027 | SHDA |
| C | 60024 | 60229 | 60229 | 60024 | Pilsworth Rd NB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 1210 | | | | | 1234 |
| B | 12 | 0 | 19 | | | | | 30 |
| C | 669 | 30 | 0 | | | | | 699 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 681 | 53 | 1229 | | | | | 1963 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 549 | | | | | 561 |
| B | 3 | 0 | 6 | | | | | 9 |
| C | 325 | 12 | 0 | | | | | 338 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 328 | 24 | 554 | | | | | 907 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 108 | | | | | 111 |
| B | 1 | 0 | 2 | | | | | 4 |
| C | 55 | 3 | 0 | | | | | 58 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 6 | 111 | | | | | 173 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 553 | | | | | 562 |
| B | 8 | 0 | 10 | | | | | 18 |
| C | 289 | 14 | 0 | | | | | 303 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 297 | 23 | 563 | | | | | 883 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 844 | | | | | 857 |
| B | 16 | 0 | 27 | | | | | 43 |
| C | 663 | 27 | 0 | | | | | 690 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 679 | 40 | 871 | | | | | 1590 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 324 | | | | | 329 |
| B | 5 | 0 | 9 | | | | | 14 |
| C | 247 | 7 | 0 | | | | | 255 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 252 | 12 | 333 | | | | | 597 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 104 | | | | | 106 |
| B | 3 | 0 | 5 | | | | | 8 |
| C | 70 | 5 | 0 | | | | | 74 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 73 | 7 | 109 | | | | | 189 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 415 | | | | | 421 |
| B | 9 | 0 | 13 | | | | | 22 |
| C | 346 | 15 | 0 | | | | | 361 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 355 | 20 | 428 | | | | | 804 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 839 | | | | | 847 |
| B | 16 | 0 | 29 | | | | | 45 |
| C | 743 | 14 | 0 | | | | | 757 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 759 | 21 | 868 | | | | | 1649 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 533 | | | | | 536 |
| B | 9 | 0 | 20 | | | | | 29 |
| C | 531 | 5 | 0 | | | | | 536 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 540 | 8 | 552 | | | | | 1101 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 48 | | | | | 49 |
| B | 1 | 0 | 2 | | | | | 3 |
| C | 37 | 1 | 0 | | | | | 38 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 1 | 50 | | | | | 89 |

MODELLED — HGV

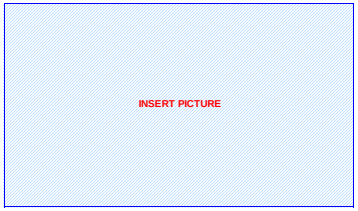
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 258 | | | | | 263 |
| B | 6 | 0 | 7 | | | | | 13 |
| C | 176 | 8 | 0 | | | | | 183 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 182 | 12 | 266 | | | | | 459 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** 3 Arrows (Pilsworth Road / Moss Hall Road - South)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 60241 | 2037 | 2037 | 60241 | *Link Road* |
| D | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 682 | 534 | 13 | | | | 1229 |
| B | 242 | 0 | 532 | 0 | | | | 775 |
| C | 454 | 1061 | 0 | 19 | | | | 1535 |
| D | 3 | 1 | 14 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 699 | 1745 | 1080 | 33 | | | | 3557 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 281 | 267 | 7 | | | | 554 |
| B | 22 | 0 | 153 | 0 | | | | 175 |
| C | 315 | 658 | 0 | 6 | | | | 978 |
| D | 1 | 1 | 1 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 338 | 939 | 421 | 14 | | | | 1711 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 46 | 63 | 1 | | | | 111 |
| B | 17 | 0 | 95 | 0 | | | | 113 |
| C | 41 | 126 | 0 | 5 | | | | 171 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 58 | 172 | 158 | 6 | | | | 395 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 356 | 204 | 4 | | | | 563 |
| B | 203 | 0 | 284 | 0 | | | | 487 |
| C | 99 | 278 | 0 | 8 | | | | 385 |
| D | 2 | 0 | 13 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 303 | 633 | 501 | 13 | | | | 1450 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 370 | 496 | 5 | | | | 871 |
| B | 327 | 0 | 884 | 1 | | | | 1213 |
| C | 351 | 645 | 0 | 23 | | | | 1018 |
| D | 12 | 1 | 19 | 0 | | | | 31 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 690 | 1016 | 1399 | 29 | | | | 3133 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 257 | 3 | | | | 333 |
| B | 59 | 0 | 422 | 1 | | | | 482 |
| C | 193 | 247 | 0 | 2 | | | | 442 |
| D | 3 | 1 | 5 | 0 | | | | 9 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 255 | 322 | 684 | 5 | | | | 1266 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 67 | 2 | | | | 109 |
| B | 30 | 0 | 132 | 1 | | | | 162 |
| C | 43 | 109 | 0 | 2 | | | | 153 |
| D | 2 | 0 | 1 | 0 | | | | 4 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 149 | 201 | 5 | | | | 428 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 257 | 172 | 0 | | | | 428 |
| B | 239 | 0 | 330 | 0 | | | | 569 |
| C | 115 | 289 | 0 | 19 | | | | 423 |
| D | 6 | 0 | 12 | 0 | | | | 19 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 361 | 546 | 514 | 19 | | | | 1439 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 190 | 664 | 14 | | | | 868 |
| B | 306 | 0 | 1084 | 2 | | | | 1392 |
| C | 445 | 292 | 0 | 19 | | | | 756 |
| D | 6 | 0 | 13 | 0 | | | | 20 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 757 | 482 | 1761 | 35 | | | | 3036 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 513 | 9 | | | | 552 |
| B | 162 | 0 | 819 | 2 | | | | 982 |
| C | 370 | 131 | 0 | 13 | | | | 514 |
| D | 4 | 0 | 10 | 0 | | | | 14 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 536 | 161 | 1342 | 23 | | | | 2062 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 43 | 0 | | | | 50 |
| B | 8 | 0 | 73 | 0 | | | | 81 |
| C | 29 | 25 | 0 | 1 | | | | 55 |
| D | 1 | 0 | 2 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 32 | 118 | 1 | | | | 189 |

MODELLED — HGV

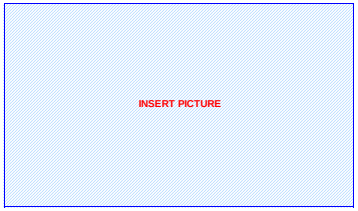
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 153 | 107 | 5 | | | | 266 |
| B | 137 | 0 | 193 | 0 | | | | 329 |
| C | 46 | 136 | 0 | 5 | | | | 188 |
| D | 0 | 0 | 2 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 183 | 289 | 302 | 11 | | | | 785 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Fowler Welch (Pilsworth Road / Moss Hall Road - North)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60241 | 60246 | 60246 | 60241 | *Moss Hall Rd NB* |
| B | 60000 | 60213 | 60213 | 60000 | *Pilsworth Road* |
| C | 60228 | 2038 | 2038 | 60228 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 837 | 242 | | | | | 1079 |
| B | 1170 | 0 | 64 | | | | | 1234 |
| C | 363 | 127 | 0 | | | | | 490 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1533 | 964 | 306 | | | | | 2803 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 369 | 51 | | | | | 420 |
| B | 758 | 0 | 56 | | | | | 814 |
| C | 220 | 103 | 0 | | | | | 323 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 978 | 472 | 107 | | | | | 1557 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 92 | 66 | | | | | 158 |
| B | 93 | 0 | 7 | | | | | 100 |
| C | 78 | 17 | 0 | | | | | 95 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 171 | 109 | 73 | | | | | 353 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 376 | 125 | | | | | 501 |
| B | 319 | 0 | 1 | | | | | 320 |
| C | 65 | 7 | 0 | | | | | 72 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 384 | 383 | 126 | | | | | 893 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 954 | 444 | | | | | 1398 |
| B | 932 | 0 | 45 | | | | | 977 |
| C | 88 | 106 | 0 | | | | | 194 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1020 | 1060 | 489 | | | | | 2569 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 409 | 275 | | | | | 684 |
| B | 430 | 0 | 42 | | | | | 472 |
| C | 14 | 85 | 0 | | | | | 99 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 444 | 494 | 317 | | | | | 1255 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 126 | 74 | | | | | 200 |
| B | 121 | 0 | 3 | | | | | 124 |
| C | 33 | 16 | 0 | | | | | 49 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 154 | 142 | 77 | | | | | 373 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 419 | 95 | | | | | 514 |
| B | 381 | 0 | 0 | | | | | 381 |
| C | 41 | 5 | 0 | | | | | 46 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 422 | 424 | 95 | | | | | 941 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1246 | 516 | | | | | 1762 |
| B | 727 | 0 | 178 | | | | | 905 |
| C | 28 | 139 | 0 | | | | | 167 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 755 | 1385 | 694 | | | | | 2834 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 914 | 428 | | | | | 1342 |
| B | 504 | 0 | 154 | | | | | 658 |
| C | 9 | 124 | 0 | | | | | 133 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 513 | 1038 | 582 | | | | | 2133 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 79 | 39 | | | | | 118 |
| B | 52 | 0 | 22 | | | | | 74 |
| C | 3 | 14 | 0 | | | | | 17 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 55 | 93 | 61 | | | | | 209 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 253 | 49 | | | | | 302 |
| B | 171 | 0 | 2 | | | | | 173 |
| C | 16 | 1 | 0 | | | | | 17 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 187 | 254 | 51 | | | | | 492 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | *TC 11 - Pilsworth Rd E* |
| B | 3001 | 60238 | 60239 | 3000 | *JTC 11 - M66 SB Off* |
| C | 60213 | 60000 | 60000 | 60213 | *TC 11 - Pilsworth Rd W* |
| D | 60236 | 4918 | 60240 | 2998 | *JTC 11 - M66 NB Off* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 390 | 462 | 236 | | | | 1088 |
| B | 503 | 0 | 340 | 0 | | | | 843 |
| C | 217 | 218 | 0 | 530 | | | | 965 |
| D | 782 | 0 | 434 | 0 | | | | 1216 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1502 | 608 | 1236 | 766 | | | | 4112 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 276 | 335 | 158 | | | | 769 |
| B | 411 | 0 | 312 | 0 | | | | 723 |
| C | 152 | 177 | 0 | 143 | | | | 472 |
| D | 637 | 0 | 169 | 0 | | | | 806 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1200 | 453 | 816 | 301 | | | | 2770 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 51 | 60 | | | | 172 |
| B | 58 | 0 | 13 | 0 | | | | 71 |
| C | 23 | 25 | 0 | 61 | | | | 109 |
| D | 93 | 0 | 36 | 0 | | | | 129 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 174 | 86 | 100 | 121 | | | | 481 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 76 | 18 | | | | 147 |
| B | 34 | 0 | 15 | 0 | | | | 49 |
| C | 42 | 16 | 0 | 326 | | | | 384 |
| D | 52 | 0 | 229 | 0 | | | | 281 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 128 | 69 | 320 | 344 | | | | 861 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 482 | 369 | 217 | | | | 1068 |
| B | 336 | 0 | 234 | 0 | | | | 570 |
| C | 285 | 120 | 0 | 655 | | | | 1060 |
| D | 422 | 0 | 372 | 0 | | | | 794 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1043 | 602 | 975 | 872 | | | | 3492 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 372 | 232 | 170 | | | | 774 |
| B | 249 | 0 | 186 | 0 | | | | 435 |
| C | 205 | 75 | 0 | 213 | | | | 493 |
| D | 305 | 0 | 52 | 0 | | | | 357 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 759 | 447 | 470 | 383 | | | | 2059 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 40 | 42 | | | | 145 |
| B | 45 | 0 | 28 | 0 | | | | 73 |
| C | 39 | 19 | 0 | 84 | | | | 142 |
| D | 59 | 0 | 56 | 0 | | | | 115 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 143 | 82 | 124 | 126 | | | | 475 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 97 | 5 | | | | 149 |
| B | 42 | 0 | 20 | 0 | | | | 62 |
| C | 41 | 26 | 0 | 358 | | | | 425 |
| D | 58 | 0 | 264 | 0 | | | | 322 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 141 | 73 | 381 | 363 | | | | 958 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 505 | 424 | 201 | | | | 1130 |
| B | 298 | 0 | 173 | 0 | | | | 471 |
| C | 377 | 198 | 0 | 809 | | | | 1384 |
| D | 555 | 0 | 308 | 0 | | | | 863 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1230 | 703 | 905 | 1010 | | | | 3848 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 460 | 370 | 182 | | | | 1012 |
| B | 261 | 0 | 143 | 0 | | | | 404 |
| C | 317 | 178 | 0 | 543 | | | | 1038 |
| D | 425 | 0 | 145 | 0 | | | | 570 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1003 | 638 | 658 | 725 | | | | 3024 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 26 | 17 | | | | 72 |
| B | 28 | 0 | 16 | 0 | | | | 44 |
| C | 29 | 17 | 0 | 46 | | | | 92 |
| D | 66 | 0 | 32 | 0 | | | | 98 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 123 | 46 | 74 | 63 | | | | 306 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 28 | 2 | | | | 46 |
| B | 9 | 0 | 14 | 0 | | | | 23 |
| C | 31 | 3 | 0 | 220 | | | | 254 |
| D | 64 | 0 | 131 | 0 | | | | 195 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 19 | 173 | 222 | | | | 518 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N12 - M66 NB Of |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 137 | 110 | 410 | 1452 | 53 | | 2162 |
| B | 297 | 0 | 26 | 219 | 0 | 37 | | 579 |
| C | 63 | 3 | 0 | 10 | 23 | 0 | | 99 |
| D | 685 | 170 | 29 | 0 | 385 | 76 | | 1345 |
| E | 1460 | 0 | 66 | 265 | 0 | 104 | | 1895 |
| F | 35 | 5 | 1 | 35 | 41 | 0 | | 117 |
| G | | | | | | | | |
| TOTAL | 2540 | 315 | 232 | 939 | 1901 | 270 | | 6197 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 106 | 45 | 269 | 1137 | 49 | | 1606 |
| B | 276 | 0 | 24 | 152 | 0 | 31 | | 483 |
| C | 11 | 1 | 0 | 3 | 9 | 0 | | 24 |
| D | 532 | 101 | 23 | 0 | 278 | 43 | | 977 |
| E | 1121 | 0 | 51 | 151 | 0 | 96 | | 1419 |
| F | 28 | 3 | 1 | 19 | 31 | 0 | | 82 |
| G | | | | | | | | |
| TOTAL | 1968 | 211 | 144 | 594 | 1455 | 219 | | 4591 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 33 | 84 | 200 | 3 | | 345 |
| B | 17 | 0 | 2 | 42 | 0 | 1 | | 62 |
| C | 37 | 2 | 0 | 5 | 9 | 0 | | 53 |
| D | 64 | 33 | 4 | 0 | 57 | 12 | | 170 |
| E | 164 | 0 | 7 | 74 | 0 | 5 | | 250 |
| F | 2 | 1 | 0 | 5 | 5 | 0 | | 13 |
| G | | | | | | | | |
| TOTAL | 284 | 61 | 46 | 210 | 271 | 21 | | 893 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 32 | 57 | 115 | 1 | | 211 |
| B | 4 | 0 | 0 | 25 | 0 | 5 | | 34 |
| C | 15 | 0 | 0 | 2 | 5 | 0 | | 22 |
| D | 89 | 36 | 2 | 0 | 50 | 21 | | 198 |
| E | 175 | 0 | 8 | 40 | 0 | 3 | | 226 |
| F | 5 | 1 | 0 | 11 | 5 | 0 | | 22 |
| G | | | | | | | | |
| TOTAL | 288 | 43 | 42 | 135 | 175 | 30 | | 713 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 160 | 114 | 272 | 1385 | 32 | | 1963 |
| B | 208 | 0 | 22 | 179 | 0 | 12 | | 421 |
| C | 83 | 13 | 0 | 14 | 37 | 1 | | 148 |
| D | 579 | 158 | 36 | 0 | 139 | 63 | | 975 |
| E | 1247 | 0 | 51 | 273 | 17 | 48 | | 1636 |
| F | 47 | 14 | 2 | 39 | 55 | 0 | | 157 |
| G | | | | | | | | |
| TOTAL | 2164 | 345 | 225 | 777 | 1633 | 156 | | 5300 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 116 | 57 | 169 | 1019 | 27 | | 1388 |
| B | 169 | 0 | 17 | 118 | 0 | 9 | | 313 |
| C | 29 | 8 | 0 | 9 | 24 | 1 | | 71 |
| D | 419 | 98 | 24 | 0 | 59 | 30 | | 630 |
| E | 885 | 0 | 39 | 169 | 17 | 36 | | 1146 |
| F | 42 | 11 | 2 | 23 | 42 | 0 | | 120 |
| G | | | | | | | | |
| TOTAL | 1544 | 233 | 139 | 488 | 1161 | 103 | | 3668 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 38 | 51 | 209 | 3 | | 324 |
| B | 22 | 0 | 3 | 27 | 0 | 1 | | 53 |
| C | 44 | 3 | 0 | 4 | 8 | 0 | | 59 |
| D | 82 | 35 | 7 | 0 | 30 | 14 | | 168 |
| E | 210 | 0 | 8 | 60 | 0 | 5 | | 283 |
| F | 4 | 2 | 0 | 9 | 5 | 0 | | 20 |
| G | | | | | | | | |
| TOTAL | 362 | 63 | 56 | 151 | 252 | 23 | | 907 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 19 | 52 | 157 | 2 | | 251 |
| B | 17 | 0 | 2 | 34 | 0 | 2 | | 55 |
| C | 10 | 2 | 0 | 1 | 5 | 0 | | 18 |
| D | 78 | 25 | 5 | 0 | 50 | 19 | | 177 |
| E | 152 | 0 | 4 | 44 | 0 | 7 | | 207 |
| F | 1 | 1 | 0 | 7 | 8 | 0 | | 17 |
| G | | | | | | | | |
| TOTAL | 258 | 49 | 30 | 138 | 220 | 30 | | 725 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 1 | 248 | 36 | 388 | 1428 | 42 | | 2143 |
| B | 297 | 0 | 6 | 153 | 0 | 14 | | 470 |
| C | 53 | 13 | 0 | 18 | 51 | 1 | | 136 |
| D | 718 | 172 | 14 | 0 | 233 | 65 | | 1202 |
| E | 1422 | 0 | 20 | 324 | 0 | 63 | | 1829 |
| F | 45 | 21 | 0 | 50 | 121 | 0 | | 237 |
| G | | | | | | | | |
| TOTAL | 2536 | 454 | 76 | 933 | 1833 | 185 | | 6017 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 1 | 234 | 19 | 351 | 1300 | 40 | | 1945 |
| B | 276 | 0 | 5 | 132 | 0 | 13 | | 426 |
| C | 24 | 12 | 0 | 16 | 47 | 1 | | 100 |
| D | 620 | 150 | 12 | 0 | 187 | 54 | | 1023 |
| E | 1246 | 0 | 16 | 279 | 0 | 51 | | 1592 |
| F | 41 | 20 | 0 | 46 | 112 | 0 | | 219 |
| G | | | | | | | | |
| TOTAL | 2208 | 416 | 52 | 824 | 1646 | 159 | | 5305 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 15 | 20 | 102 | 2 | | 152 |
| B | 18 | 0 | 1 | 18 | 0 | 1 | | 38 |
| C | 25 | 1 | 0 | 2 | 4 | 0 | | 32 |
| D | 50 | 19 | 2 | 0 | 25 | 10 | | 106 |
| E | 135 | 0 | 4 | 30 | 0 | 5 | | 174 |
| F | 3 | 1 | 0 | 3 | 3 | 0 | | 10 |
| G | | | | | | | | |
| TOTAL | 231 | 34 | 22 | 73 | 134 | 18 | | 512 |

MODELLED — HGV

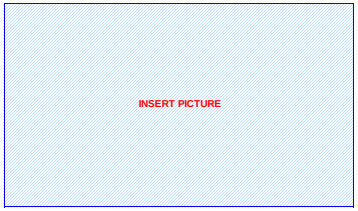
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 17 | 26 | 0 | | 46 |
| B | 3 | 0 | 0 | 3 | 0 | 0 | | 6 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 48 | 3 | 0 | 0 | 21 | 1 | | 73 |
| E | 41 | 0 | 0 | 15 | 0 | 7 | | 63 |
| F | 1 | 0 | 0 | 1 | 6 | 0 | | 8 |
| G | | | | | | | | |
| TOTAL | 97 | 4 | 2 | 36 | 53 | 8 | | 200 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | *Heywood Old Road NE* |
| B | 60074 | 2478 | 2478 | 60074 | *Whittle Lane* |
| C | 4730 | 2478 | 2478 | 4730 | *Heywood Old Road SE* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 202 | 434 | | | | | 637 |
| B | 7 | 0 | 51 | | | | | 58 |
| C | 400 | 340 | 0 | | | | | 741 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 407 | 543 | 485 | | | | | 1435 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 181 | 372 | | | | | 553 |
| B | 4 | 0 | 20 | | | | | 24 |
| C | 317 | 281 | 0 | | | | | 598 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 320 | 462 | 392 | | | | | 1175 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 43 | | | | | 65 |
| B | 3 | 0 | 31 | | | | | 34 |
| C | 71 | 59 | 0 | | | | | 130 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 81 | 74 | | | | | 228 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 17 | | | | | 17 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 13 | 0 | 0 | | | | | 13 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 13 | 0 | 17 | | | | | 30 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 501 | | | | | 576 |
| B | 72 | 0 | 242 | | | | | 314 |
| C | 320 | 186 | 0 | | | | | 506 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 391 | 260 | 744 | | | | | 1395 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 367 | | | | | 408 |
| B | 48 | 0 | 171 | | | | | 220 |
| C | 260 | 122 | 0 | | | | | 382 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 309 | 163 | 538 | | | | | 1010 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 71 | | | | | 105 |
| B | 23 | 0 | 71 | | | | | 94 |
| C | 43 | 64 | 0 | | | | | 107 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 67 | 98 | 142 | | | | | 306 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 61 | | | | | 61 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 16 | 0 | 0 | | | | | 16 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 16 | 0 | 61 | | | | | 77 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.98 | | | | | 1.98 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 695 | | | | | 718 |
| B | 81 | 0 | 317 | | | | | 398 |
| C | 467 | 43 | 0 | | | | | 510 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 548 | 66 | 1013 | | | | | 1627 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 592 | | | | | 611 |
| B | 74 | 0 | 297 | | | | | 372 |
| C | 415 | 34 | 0 | | | | | 449 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 489 | 53 | 889 | | | | | 1431 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 78 | | | | | 83 |
| B | 7 | 0 | 20 | | | | | 26 |
| C | 45 | 9 | 0 | | | | | 54 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 51 | 13 | 98 | | | | | 163 |

MODELLED — HGV

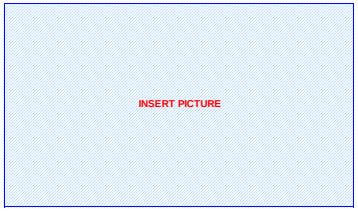
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 23 | | | | | 23 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 8 | 0 | 0 | | | | | 8 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 8 | 0 | 23 | | | | | 31 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.92 | | | | | 1.92 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Heywood Old Road / Langley Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | Heywood Old Road SB |
| B | 15238 | 4730 | 4730 | 15238 | Langley Lane |
| C | 2478 | 4730 | 4730 | 2478 | Heywood Old Road NB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 110 | 358 | | | | | 468 |
| B | 124 | 0 | 383 | | | | | 507 |
| C | 345 | 140 | 0 | | | | | 485 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 469 | 251 | 741 | | | | | 1460 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 96 | 293 | | | | | 389 |
| B | 115 | 0 | 305 | | | | | 420 |
| C | 287 | 105 | 0 | | | | | 392 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 402 | 201 | 598 | | | | | 1201 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 61 | | | | | 67 |
| B | 5 | 0 | 69 | | | | | 75 |
| C | 41 | 33 | 0 | | | | | 74 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 40 | 130 | | | | | 216 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 5 | | | | | 10 |
| B | 4 | 0 | 8 | | | | | 12 |
| C | 17 | 0 | 0 | | | | | 17 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 20 | 6 | 13 | | | | | 39 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 57 | 305 | | | | | 362 |
| B | 72 | 0 | 201 | | | | | 273 |
| C | 550 | 194 | 0 | | | | | 744 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 622 | 251 | 506 | | | | | 1379 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 49 | 230 | | | | | 279 |
| B | 59 | 0 | 152 | | | | | 211 |
| C | 404 | 135 | 0 | | | | | 538 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 462 | 184 | 382 | | | | | 1028 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 60 | | | | | 64 |
| B | 6 | 0 | 47 | | | | | 54 |
| C | 90 | 52 | 0 | | | | | 142 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 97 | 56 | 107 | | | | | 260 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 15 | | | | | 17 |
| B | 6 | 0 | 1 | | | | | 6 |
| C | 56 | 6 | 0 | | | | | 61 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 61 | 8 | 16 | | | | | 85 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 3.97 | 0 | | | | | 5.96 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 113 | 314 | | | | | 427 |
| B | 106 | 0 | 196 | | | | | 302 |
| C | 745 | 267 | 0 | | | | | 1012 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 851 | 380 | 510 | | | | | 1742 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 100 | 280 | | | | | 380 |
| B | 97 | 0 | 169 | | | | | 267 |
| C | 658 | 231 | 0 | | | | | 889 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 756 | 331 | 449 | | | | | 1535 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 27 | | | | | 37 |
| B | 6 | 0 | 27 | | | | | 33 |
| C | 65 | 33 | 0 | | | | | 98 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 71 | 44 | 54 | | | | | 168 |

MODELLED — HGV

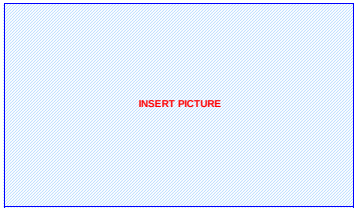
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 8 | | | | | 9 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 22 | 1 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 23 | 2 | 8 | | | | | 33 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.97 | 3.83 | 0 | | | | | 5.8 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Langley Lane / A6046 Hollin Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 251 | 885 | | | | | 1136 |
| B | 125 | 0 | 87 | | | | | 212 |
| C | 619 | 66 | 0 | | | | | 685 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 744 | 317 | 972 | | | | | 2033 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 174 | 634 | | | | | 808 |
| B | 87 | 0 | 84 | | | | | 171 |
| C | 392 | 66 | 0 | | | | | 457 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 479 | 239 | 718 | | | | | 1436 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 68 | 143 | | | | | 211 |
| B | 34 | 0 | 2 | | | | | 36 |
| C | 127 | 1 | 0 | | | | | 128 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 161 | 69 | 144 | | | | | 375 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 90 | | | | | 98 |
| B | 0 | 0 | 1 | | | | | 2 |
| C | 71 | 0 | 0 | | | | | 71 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 8 | 91 | | | | | 171 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 19 | | | | | 19 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 0 | 19 | | | | | 52 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 127 | 910 | | | | | 1036 |
| B | 109 | 0 | 6 | | | | | 115 |
| C | 636 | 16 | 0 | | | | | 653 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 745 | 143 | 916 | | | | | 1804 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 532 | | | | | 607 |
| B | 51 | 0 | 6 | | | | | 57 |
| C | 428 | 16 | 0 | | | | | 443 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 478 | 91 | 538 | | | | | 1107 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 166 | | | | | 214 |
| B | 49 | 0 | 0 | | | | | 49 |
| C | 115 | 0 | 0 | | | | | 115 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 163 | 49 | 166 | | | | | 378 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 192 | | | | | 194 |
| B | 5 | 0 | 0 | | | | | 5 |
| C | 70 | 0 | 0 | | | | | 70 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 1 | 193 | | | | | 269 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.67 | 1.98 | 19.84 | | | | | 49.49 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 162 | 962 | | | | | 1124 |
| B | 95 | 0 | 2 | | | | | 97 |
| C | 765 | 52 | 0 | | | | | 817 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 860 | 215 | 964 | | | | | 2039 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 132 | 771 | | | | | 903 |
| B | 64 | 0 | 2 | | | | | 65 |
| C | 601 | 51 | 0 | | | | | 653 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 665 | 184 | 773 | | | | | 1621 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 107 | | | | | 135 |
| B | 27 | 0 | 0 | | | | | 27 |
| C | 99 | 1 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 126 | 29 | 107 | | | | | 262 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 56 | | | | | 56 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 41 | 0 | 0 | | | | | 41 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 42 | 0 | 56 | | | | | 99 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 27 | | | | | 29 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 23 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.13 | 1.95 | 27.31 | | | | | 56.39 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Coronation Avenue

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 129 | 362 | | | | | 490 |
| B | 395 | 0 | 53 | | | | | 448 |
| C | 518 | 218 | 0 | | | | | 736 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 913 | 347 | 414 | | | | | 1674 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 271 | | | | | 271 |
| B | 260 | 0 | 29 | | | | | 288 |
| C | 461 | 153 | 0 | | | | | 614 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 721 | 153 | 300 | | | | | 1174 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 69 | | | | | 69 |
| B | 44 | 0 | 16 | | | | | 60 |
| C | 33 | 52 | 0 | | | | | 85 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 77 | 52 | 85 | | | | | 214 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 99 | 17 | | | | | 117 |
| B | 72 | 0 | 8 | | | | | 80 |
| C | 24 | 13 | 0 | | | | | 36 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 112 | 26 | | | | | 234 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 4 | | | | | 33 |
| B | 19 | 0 | 0 | | | | | 19 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 29 | 4 | | | | | 52 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 122 | 259 | | | | | 381 |
| B | 303 | 0 | 62 | | | | | 366 |
| C | 461 | 119 | 0 | | | | | 580 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 764 | 241 | 321 | | | | | 1327 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 185 | | | | | 185 |
| B | 162 | 0 | 12 | | | | | 174 |
| C | 320 | 77 | 0 | | | | | 397 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 483 | 77 | 197 | | | | | 756 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 55 | | | | | 55 |
| B | 9 | 0 | 42 | | | | | 51 |
| C | 97 | 30 | 0 | | | | | 127 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 106 | 30 | 97 | | | | | 233 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 99 | 13 | | | | | 112 |
| B | 113 | 0 | 8 | | | | | 121 |
| C | 41 | 13 | 0 | | | | | 54 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 154 | 111 | 21 | | | | | 286 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.75 | 23.77 | 5.94 | | | | | 51.46 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 328 | | | | | 380 |
| B | 397 | 0 | 22 | | | | | 420 |
| C | 542 | 99 | 0 | | | | | 641 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 940 | 151 | 351 | | | | | 1441 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 274 | | | | | 274 |
| B | 297 | 0 | 7 | | | | | 303 |
| C | 468 | 84 | 0 | | | | | 552 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 764 | 84 | 281 | | | | | 1129 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 31 | | | | | 31 |
| B | 38 | 0 | 15 | | | | | 53 |
| C | 46 | 13 | 0 | | | | | 59 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 85 | 13 | 46 | | | | | 144 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 19 | | | | | 48 |
| B | 36 | 0 | 1 | | | | | 37 |
| C | 26 | 2 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 62 | 30 | 20 | | | | | 112 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 4 | | | | | 27 |
| B | 27 | 0 | 0 | | | | | 27 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.92 | 23.39 | 3.9 | | | | | 56.21 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / Hollins Lane

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 395 | 486 | | | | | 881 |
| B | 282 | 0 | 61 | | | | | 343 |
| C | 770 | 69 | 0 | | | | | 838 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1052 | 463 | 547 | | | | | 2062 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 341 | 389 | | | | | 731 |
| B | 205 | 0 | 50 | | | | | 255 |
| C | 620 | 50 | 0 | | | | | 670 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 824 | 392 | 440 | | | | | 1655 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 61 | | | | | 106 |
| B | 45 | 0 | 5 | | | | | 49 |
| C | 85 | 11 | 0 | | | | | 95 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 129 | 56 | 66 | | | | | 251 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 35 | | | | | 40 |
| B | 29 | 0 | 0 | | | | | 29 |
| C | 65 | 2 | 0 | | | | | 67 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 6 | 36 | | | | | 136 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 252 | 524 | | | | | 776 |
| B | 198 | 0 | 42 | | | | | 241 |
| C | 617 | 49 | 0 | | | | | 666 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 815 | 301 | 567 | | | | | 1683 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 211 | 386 | | | | | 597 |
| B | 149 | 0 | 28 | | | | | 177 |
| C | 456 | 33 | 0 | | | | | 489 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 605 | 245 | 413 | | | | | 1263 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 80 | | | | | 111 |
| B | 32 | 0 | 8 | | | | | 40 |
| C | 91 | 9 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 123 | 40 | 88 | | | | | 252 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 59 | | | | | 66 |
| B | 13 | 0 | 0 | | | | | 14 |
| C | 70 | 0 | 0 | | | | | 70 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 83 | 8 | 59 | | | | | 150 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 3.99 | 7.96 | 5.99 | | | | | 17.94 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 397 | 578 | | | | | 974 |
| B | 182 | 0 | 40 | | | | | 222 |
| C | 545 | 66 | 0 | | | | | 611 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 727 | 463 | 617 | | | | | 1807 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 349 | 503 | | | | | 852 |
| B | 155 | 0 | 29 | | | | | 184 |
| C | 472 | 48 | 0 | | | | | 520 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 627 | 397 | 532 | | | | | 1556 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 53 | | | | | 92 |
| B | 18 | 0 | 5 | | | | | 23 |
| C | 43 | 12 | 0 | | | | | 55 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 61 | 51 | 58 | | | | | 170 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 22 | | | | | 26 |
| B | 7 | 0 | 0 | | | | | 8 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 37 | 4 | 22 | | | | | 64 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.97 | 9.76 | 5.92 | | | | | 17.65 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / A56 Manchester Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 623 | 646 | | | | | 1269 |
| B | 433 | 0 | 114 | | | | | 547 |
| C | 981 | 215 | 0 | | | | | 1196 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1414 | 838 | 760 | | | | | 3012 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 512 | 519 | | | | | 1032 |
| B | 349 | 0 | 91 | | | | | 440 |
| C | 859 | 157 | 0 | | | | | 1016 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1208 | 670 | 610 | | | | | 2488 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 70 | | | | | 133 |
| B | 54 | 0 | 12 | | | | | 66 |
| C | 75 | 33 | 0 | | | | | 108 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 128 | 95 | 83 | | | | | 307 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 36 | | | | | 79 |
| B | 25 | 0 | 11 | | | | | 36 |
| C | 27 | 24 | 0 | | | | | 51 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 52 | 67 | 47 | | | | | 166 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 6 | 20 | | | | | 51 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 422 | 697 | | | | | 1118 |
| B | 408 | 0 | 159 | | | | | 567 |
| C | 766 | 244 | 0 | | | | | 1010 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1174 | 666 | 856 | | | | | 2695 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 317 | 551 | | | | | 869 |
| B | 313 | 0 | 100 | | | | | 413 |
| C | 602 | 172 | 0 | | | | | 774 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 915 | 489 | 652 | | | | | 2056 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 86 | | | | | 148 |
| B | 55 | 0 | 33 | | | | | 88 |
| C | 105 | 39 | 0 | | | | | 144 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 160 | 100 | 120 | | | | | 380 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 39 | | | | | 76 |
| B | 34 | 0 | 25 | | | | | 59 |
| C | 37 | 34 | 0 | | | | | 70 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 71 | 70 | 64 | | | | | 205 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.88 | 5.98 | 19.93 | | | | | 53.79 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 450 | 894 | | | | | 1344 |
| B | 497 | 0 | 120 | | | | | 617 |
| C | 907 | 161 | 0 | | | | | 1068 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1403 | 611 | 1015 | | | | | 3029 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 393 | 796 | | | | | 1189 |
| B | 426 | 0 | 106 | | | | | 532 |
| C | 799 | 127 | 0 | | | | | 926 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1225 | 520 | 902 | | | | | 2647 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 69 | | | | | 101 |
| B | 46 | 0 | 12 | | | | | 58 |
| C | 75 | 22 | 0 | | | | | 97 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 55 | 81 | | | | | 256 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 10 | | | | | 28 |
| B | 19 | 0 | 3 | | | | | 22 |
| C | 13 | 12 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 30 | 12 | | | | | 75 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 25.3 | 5.96 | 19.86 | | | | | 51.12 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 26859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1364 | 3495 | 887 | | | | 5746 |
| B | 605 | 35 | 1124 | 4881 | | | | 6645 |
| C | 3493 | 446 | 0 | 1188 | | | | 5127 |
| D | 1225 | 5335 | 2279 | 0 | | | | 8839 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5323 | 7180 | 6898 | 6956 | | | | 26357 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 997 | 2251 | 476 | | | | 3724 |
| B | 537 | 0 | 827 | 2509 | | | | 3873 |
| C | 2370 | 304 | 0 | 646 | | | | 3320 |
| D | 608 | 2621 | 1329 | 0 | | | | 4558 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3515 | 3922 | 4407 | 3631 | | | | 15475 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 189 | 722 | 142 | | | | 1053 |
| B | 62 | 2 | 126 | 881 | | | | 1071 |
| C | 543 | 89 | 0 | 376 | | | | 1008 |
| D | 343 | 1010 | 541 | 0 | | | | 1894 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 948 | 1290 | 1389 | 1399 | | | | 5026 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 178 | 522 | 269 | | | | 969 |
| B | 6 | 33 | 171 | 1491 | | | | 1701 |
| C | 580 | 53 | 0 | 166 | | | | 799 |
| D | 274 | 1704 | 409 | 0 | | | | 2387 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 860 | 1968 | 1102 | 1926 | | | | 5856 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1050 | 2042 | 1099 | | | | 4191 |
| B | 531 | 67 | 605 | 5191 | | | | 6394 |
| C | 2737 | 333 | 0 | 875 | | | | 3945 |
| D | 1216 | 5323 | 2033 | 0 | | | | 8572 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4484 | 6773 | 4680 | 7165 | | | | 23102 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 785 | 1222 | 431 | | | | 2438 |
| B | 509 | 0 | 431 | 2536 | | | | 3476 |
| C | 1767 | 193 | 0 | 393 | | | | 2353 |
| D | 411 | 2472 | 1058 | 0 | | | | 3941 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2687 | 3450 | 2711 | 3360 | | | | 12208 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 162 | 438 | 235 | | | | 835 |
| B | 22 | 1 | 88 | 1090 | | | | 1201 |
| C | 509 | 68 | 0 | 254 | | | | 831 |
| D | 284 | 1030 | 449 | 0 | | | | 1763 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 815 | 1261 | 975 | 1579 | | | | 4630 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 103 | 382 | 433 | | | | 918 |
| B | 0 | 66 | 86 | 1565 | | | | 1717 |
| C | 461 | 72 | 0 | 228 | | | | 761 |
| D | 521 | 1821 | 526 | 0 | | | | 2868 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 982 | 2062 | 994 | 2226 | | | | 6264 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1147 | 2823 | 1159 | | | | 5129 |
| B | 403 | 74 | 916 | 5290 | | | | 6683 |
| C | 3917 | 399 | 0 | 917 | | | | 5233 |
| D | 1469 | 5390 | 2392 | 0 | | | | 9251 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5789 | 7010 | 6131 | 7366 | | | | 26296 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1036 | 2357 | 705 | | | | 4098 |
| B | 381 | 1 | 856 | 3524 | | | | 4762 |
| C | 3145 | 309 | 0 | 624 | | | | 4078 |
| D | 989 | 3715 | 1697 | 0 | | | | 6401 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4515 | 5061 | 4910 | 4853 | | | | 19339 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 355 | 177 | | | | 622 |
| B | 22 | 3 | 46 | 767 | | | | 838 |
| C | 500 | 79 | 0 | 250 | | | | 829 |
| D | 251 | 745 | 421 | 0 | | | | 1417 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 773 | 917 | 822 | 1194 | | | | 3706 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 111 | 277 | | | | 409 |
| B | 0 | 70 | 14 | 999 | | | | 1083 |
| C | 272 | 11 | 0 | 43 | | | | 326 |
| D | 229 | 930 | 274 | 0 | | | | 1433 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 501 | 1032 | 399 | 1319 | | | | 3251 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | JTC 20 - A627 SB |
| B | 2727 | 2724 | 2723 | 2725 | JTC 20 - M62 WB |
| C | 2768 | 4932 | 4929 | 2767 | JTC 20 - A627 NB |
| D | 2719 | 2721 | 2722 | 2720 | JTC 20 - M62 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 274 | 982 | 915 | | | | 2171 |
| B | 224 | 0 | 1193 | 4823 | | | | 6240 |
| C | 1067 | 828 | 0 | 1088 | | | | 2983 |
| D | 891 | 5516 | 1062 | 0 | | | | 7469 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2182 | 6618 | 3237 | 6826 | | | | 18863 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 204 | 758 | 557 | | | | 1519 |
| B | 190 | 0 | 813 | 2468 | | | | 3471 |
| C | 880 | 454 | 0 | 705 | | | | 2039 |
| D | 520 | 2796 | 702 | 0 | | | | 4018 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1590 | 3454 | 2273 | 3730 | | | | 11047 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 102 | 138 | | | | 268 |
| B | 27 | 0 | 183 | 756 | | | | 966 |
| C | 118 | 102 | 0 | 191 | | | | 411 |
| D | 131 | 990 | 200 | 0 | | | | 1321 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 276 | 1120 | 485 | 1085 | | | | 2966 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 122 | 220 | | | | 384 |
| B | 7 | 0 | 197 | 1599 | | | | 1803 |
| C | 69 | 272 | 0 | 192 | | | | 533 |
| D | 240 | 1730 | 160 | 0 | | | | 2130 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 316 | 2044 | 479 | 2011 | | | | 4850 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 136 | 822 | 751 | | | | 1709 |
| B | 254 | 0 | 962 | 4875 | | | | 6091 |
| C | 321 | 684 | 0 | 855 | | | | 1860 |
| D | 762 | 5602 | 800 | 0 | | | | 7164 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1337 | 6422 | 2584 | 6481 | | | | 16824 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 77 | 586 | 426 | | | | 1089 |
| B | 93 | 0 | 448 | 2504 | | | | 3045 |
| C | 147 | 327 | 0 | 576 | | | | 1050 |
| D | 538 | 2630 | 562 | 0 | | | | 3730 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 778 | 3034 | 1596 | 3506 | | | | 8914 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 118 | 141 | | | | 277 |
| B | 23 | 0 | 175 | 837 | | | | 1035 |
| C | 102 | 113 | 0 | 197 | | | | 412 |
| D | 143 | 976 | 152 | 0 | | | | 1271 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 268 | 1107 | 445 | 1175 | | | | 2995 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 118 | 184 | | | | 343 |
| B | 138 | 0 | 339 | 1534 | | | | 2011 |
| C | 72 | 244 | 0 | 82 | | | | 398 |
| D | 81 | 1996 | 86 | 0 | | | | 2163 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 291 | 2281 | 543 | 1800 | | | | 4915 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 248 | 925 | 1104 | | | | 2277 |
| B | 175 | 0 | 1123 | 4506 | | | | 5804 |
| C | 993 | 884 | 0 | 1262 | | | | 3139 |
| D | 604 | 5522 | 1074 | 0 | | | | 7200 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1772 | 6654 | 3122 | 6872 | | | | 18420 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 193 | 710 | 753 | | | | 1656 |
| B | 122 | 0 | 871 | 2932 | | | | 3925 |
| C | 859 | 684 | 0 | 1019 | | | | 2562 |
| D | 482 | 3834 | 935 | 0 | | | | 5251 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1463 | 4711 | 2516 | 4704 | | | | 13394 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 118 | 135 | | | | 278 |
| B | 12 | 0 | 100 | 576 | | | | 688 |
| C | 105 | 112 | 0 | 150 | | | | 367 |
| D | 94 | 730 | 102 | 0 | | | | 926 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 211 | 867 | 320 | 861 | | | | 2259 |

MODELLED — HGV

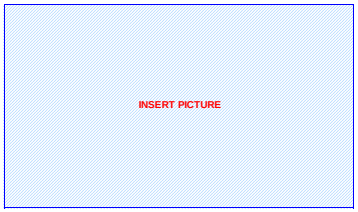
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 97 | 216 | | | | 343 |
| B | 41 | 0 | 152 | 998 | | | | 1191 |
| C | 29 | 88 | 0 | 93 | | | | 210 |
| D | 28 | 958 | 37 | 0 | | | | 1023 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 98 | 1076 | 286 | 1307 | | | | 2767 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J19




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | *JTC 21 - M60 SB* |
| B | 14141 | 5666 | 5093 | 14141 | *JTC 21 - A576 WB* |
| C | 5668 | 5665 | 5667 | 5669 | *JTC 21 - M60 NB* |
| D | 3414 | 5096 | 5095 | 3414 | *JTC 21 - A576 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 672 | 0 | 980 | | | | 1652 |
| B | 528 | 0 | 287 | 450 | | | | 1265 |
| C | 0 | 264 | 26 | 546 | | | | 836 |
| D | 561 | 236 | 797 | 0 | | | | 1594 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1089 | 1172 | 1110 | 1976 | | | | 5347 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 487 | 0 | 812 | | | | 1299 |
| B | 386 | 0 | 224 | 397 | | | | 1007 |
| C | 0 | 200 | 23 | 453 | | | | 676 |
| D | 464 | 211 | 690 | 0 | | | | 1365 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 850 | 898 | 937 | 1662 | | | | 4347 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 107 | 0 | 80 | | | | 187 |
| B | 68 | 0 | 52 | 51 | | | | 171 |
| C | 0 | 32 | 3 | 73 | | | | 108 |
| D | 56 | 20 | 89 | 0 | | | | 165 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 124 | 159 | 144 | 204 | | | | 631 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 0 | 88 | | | | 166 |
| B | 74 | 0 | 11 | 2 | | | | 87 |
| C | 0 | 32 | 0 | 20 | | | | 52 |
| D | 41 | 5 | 18 | 0 | | | | 64 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 115 | 115 | 29 | 110 | | | | 369 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 461 | 0 | 689 | | | | 1150 |
| B | 299 | 0 | 314 | 365 | | | | 978 |
| C | 0 | 370 | 36 | 540 | | | | 946 |
| D | 594 | 489 | 667 | 0 | | | | 1750 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 893 | 1320 | 1017 | 1594 | | | | 4824 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 312 | 0 | 537 | | | | 849 |
| B | 233 | 0 | 211 | 324 | | | | 768 |
| C | 0 | 219 | 36 | 430 | | | | 685 |
| D | 396 | 425 | 520 | 0 | | | | 1341 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 629 | 956 | 767 | 1291 | | | | 3643 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 79 | 0 | 96 | | | | 175 |
| B | 41 | 0 | 58 | 36 | | | | 135 |
| C | 0 | 82 | 0 | 74 | | | | 156 |
| D | 114 | 55 | 105 | 0 | | | | 274 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 155 | 216 | 163 | 206 | | | | 740 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 70 | 0 | 56 | | | | 126 |
| B | 25 | 0 | 45 | 5 | | | | 75 |
| C | 0 | 69 | 0 | 36 | | | | 105 |
| D | 84 | 9 | 42 | 0 | | | | 135 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 109 | 148 | 87 | 97 | | | | 441 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 520 | 0 | 1231 | | | | 1751 |
| B | 212 | 0 | 200 | 485 | | | | 897 |
| C | 5 | 393 | 5 | 534 | | | | 937 |
| D | 891 | 844 | 788 | 0 | | | | 2523 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1108 | 1757 | 993 | 2250 | | | | 6108 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 434 | 0 | 1156 | | | | 1590 |
| B | 185 | 0 | 173 | 435 | | | | 793 |
| C | 4 | 327 | 5 | 479 | | | | 815 |
| D | 775 | 783 | 715 | 0 | | | | 2273 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 964 | 1544 | 893 | 2070 | | | | 5471 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 0 | 55 | | | | 117 |
| B | 20 | 0 | 21 | 47 | | | | 88 |
| C | 1 | 46 | 0 | 55 | | | | 102 |
| D | 98 | 60 | 66 | 0 | | | | 224 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 119 | 168 | 87 | 157 | | | | 531 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 0 | 20 | | | | 44 |
| B | 7 | 0 | 6 | 3 | | | | 16 |
| C | 0 | 20 | 0 | 0 | | | | 20 |
| D | 18 | 1 | 7 | 0 | | | | 26 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 25 | 45 | 13 | 23 | | | | 106 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A576 Middleton Road / A6045 Heywood Old Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 3 | 560 | | | | 599 |
| B | 83 | 0 | 4 | 706 | | | | 792 |
| C | 4 | 4 | 0 | 17 | | | | 25 |
| D | 427 | 748 | 11 | 0 | | | | 1185 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 514 | 788 | 17 | 1283 | | | | 2602 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 3 | 466 | | | | 500 |
| B | 58 | 0 | 1 | 528 | | | | 588 |
| C | 3 | 3 | 0 | 12 | | | | 18 |
| D | 369 | 520 | 8 | 0 | | | | 896 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 431 | 553 | 12 | 1007 | | | | 2002 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 0 | 74 | | | | 80 |
| B | 13 | 0 | 1 | 94 | | | | 108 |
| C | 1 | 1 | 0 | 3 | | | | 5 |
| D | 40 | 117 | 1 | 0 | | | | 159 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 124 | 2 | 171 | | | | 351 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 20 | | | | 20 |
| B | 11 | 0 | 2 | 66 | | | | 79 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 18 | 95 | 2 | 0 | | | | 114 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 95 | 3 | 87 | | | | 215 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 33 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 100 | 6 | 378 | | | | 484 |
| B | 112 | 0 | 6 | 610 | | | | 727 |
| C | 5 | 5 | 0 | 9 | | | | 20 |
| D | 573 | 757 | 10 | 0 | | | | 1339 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 690 | 862 | 22 | 997 | | | | 2571 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 4 | 305 | | | | 386 |
| B | 92 | 0 | 4 | 456 | | | | 552 |
| C | 3 | 3 | 0 | 7 | | | | 14 |
| D | 423 | 527 | 8 | 0 | | | | 957 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 518 | 606 | 15 | 768 | | | | 1908 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 1 | 56 | | | | 75 |
| B | 14 | 0 | 1 | 78 | | | | 93 |
| C | 1 | 1 | 0 | 1 | | | | 4 |
| D | 98 | 115 | 1 | 0 | | | | 215 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 113 | 135 | 4 | 135 | | | | 388 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 1 | 17 | | | | 23 |
| B | 6 | 0 | 1 | 58 | | | | 65 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 51 | 97 | 1 | 0 | | | | 149 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 58 | 103 | 2 | 75 | | | | 239 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.81 | 0 | 17.94 | | | | 35.75 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 120 | 4 | 405 | | | | 529 |
| B | 157 | 0 | 4 | 503 | | | | 664 |
| C | 6 | 6 | 0 | 6 | | | | 18 |
| D | 876 | 885 | 11 | 0 | | | | 1773 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1039 | 1011 | 19 | 914 | | | | 2984 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 102 | 3 | 362 | | | | 468 |
| B | 139 | 0 | 4 | 428 | | | | 571 |
| C | 5 | 5 | 0 | 4 | | | | 14 |
| D | 781 | 754 | 9 | 0 | | | | 1544 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 926 | 860 | 16 | 794 | | | | 2596 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 0 | 36 | | | | 51 |
| B | 16 | 0 | 0 | 52 | | | | 69 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 78 | 89 | 1 | 0 | | | | 168 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 105 | 2 | 88 | | | | 290 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | 8 | | | | 10 |
| B | 1 | 0 | 0 | 8 | | | | 9 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 18 | 26 | 1 | 0 | | | | 44 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 29 | 1 | 16 | | | | 65 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 17 | 0 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.09 | 0 | 15.59 | | | | 32.68 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 80 | 1078 | | | | | 1158 |
| B | 0 | 0 | 1113 | | | | | 1113 |
| C | 1856 | 715 | 0 | | | | | 2571 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1856 | 795 | 2190 | | | | | 4841 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 817 | | | | | 879 |
| B | 0 | 0 | 789 | | | | | 789 |
| C | 1423 | 544 | 0 | | | | | 1967 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1423 | 607 | 1606 | | | | | 3635 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 114 | | | | | 126 |
| B | 0 | 0 | 231 | | | | | 231 |
| C | 172 | 113 | 0 | | | | | 285 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 172 | 125 | 345 | | | | | 642 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 118 | | | | | 123 |
| B | 0 | 0 | 93 | | | | | 93 |
| C | 231 | 57 | 0 | | | | | 289 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 231 | 63 | 210 | | | | | 504 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 29 | | | | | 29 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 0 | 29 | | | | | 59 |

### Model_2_Heywood_DS3a_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 1018 | | | | | 1041 |
| B | 0 | 0 | 975 | | | | | 975 |
| C | 1589 | 608 | 0 | | | | | 2197 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1589 | 630 | 1993 | | | | | 4212 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 742 | | | | | 757 |
| B | 0 | 0 | 646 | | | | | 646 |
| C | 1141 | 403 | 0 | | | | | 1543 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1141 | 418 | 1388 | | | | | 2947 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 123 | | | | | 127 |
| B | 0 | 0 | 200 | | | | | 200 |
| C | 221 | 141 | 0 | | | | | 362 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 221 | 144 | 324 | | | | | 689 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 124 | | | | | 127 |
| B | 0 | 0 | 128 | | | | | 128 |
| C | 195 | 64 | 0 | | | | | 260 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 195 | 68 | 252 | | | | | 515 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.57 | 0 | 29.64 | | | | | 61.21 |

### Model_3_Heywood_DS3a_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 1094 | | | | | 1098 |
| B | 0 | 0 | 1075 | | | | | 1075 |
| C | 1829 | 733 | 0 | | | | | 2562 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1829 | 737 | 2169 | | | | | 4735 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 988 | | | | | 990 |
| B | 0 | 0 | 956 | | | | | 956 |
| C | 1597 | 609 | 0 | | | | | 2206 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1597 | 611 | 1944 | | | | | 4152 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 58 | | | | | 60 |
| B | 0 | 0 | 93 | | | | | 93 |
| C | 145 | 86 | 0 | | | | | 231 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 145 | 87 | 152 | | | | | 384 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 21 | | | | | 21 |
| B | 0 | 0 | 26 | | | | | 26 |
| C | 59 | 38 | 0 | | | | | 97 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 59 | 39 | 46 | | | | | 144 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 28 | 0 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.39 | 0 | 27.15 | | | | | 55.54 |

## Run 14 - 2039 Do Something 3b - Origin-Destination Matrices

- 3b Policy Off (Non Vision-Led)
- including all of the JPA1.1 Allocation Site & all of the JPA1.2 Allocation Site
- including the M62 Access solution
- including Common Highway Mitigation Package and J18 DCO works
- Whittle Lane capacity constrained and South Heywood Link Closed

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60124 | 4924 | 4924 | 60124 | M62 J19 and Birch |
| E | 60057 | 60011 | 4924 | 2718 | C1-M62 WC1-M62 West |
| F | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizabe |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 262 | 336 | 396 | 0 | 20 | | 1014 |
| B | 239 | 0 | 168 | 42 | 0 | 497 | | 946 |
| C | 282 | 182 | 0 | 279 | 0 | 170 | | 913 |
| D | 111 | 0 | 33 | 0 | 0 | 122 | | 266 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 6 | 397 | 148 | 117 | 0 | 0 | | 668 |
| G | | | | | | | | |
| TOTAL | 638 | 841 | 685 | 834 | 0 | 809 | | 3807 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 172 | 238 | 238 | 0 | 19 | | 667 |
| B | 145 | 0 | 61 | 0 | 0 | 285 | | 491 |
| C | 215 | 148 | 0 | 191 | 0 | 121 | | 675 |
| D | 51 | 0 | 4 | 0 | 0 | 52 | | 107 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 4 | 243 | 86 | 95 | 0 | 0 | | 428 |
| G | | | | | | | | |
| TOTAL | 415 | 563 | 389 | 524 | 0 | 477 | | 2368 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 67 | 78 | 62 | 0 | 1 | | 208 |
| B | 41 | 0 | 70 | 1 | 0 | 77 | | 189 |
| C | 59 | 12 | 0 | 49 | 0 | 44 | | 164 |
| D | 27 | 0 | 3 | 0 | 0 | 14 | | 44 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 2 | 36 | 18 | 17 | 0 | 0 | | 73 |
| G | | | | | | | | |
| TOTAL | 129 | 115 | 169 | 129 | 0 | 136 | | 678 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 20 | 96 | 0 | 0 | | 139 |
| B | 53 | 0 | 37 | 41 | 0 | 135 | | 266 |
| C | 8 | 22 | 0 | 39 | 0 | 5 | | 74 |
| D | 33 | 0 | 26 | 0 | 0 | 56 | | 115 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 0 | 118 | 44 | 5 | 0 | 0 | | 167 |
| G | | | | | | | | |
| TOTAL | 94 | 163 | 127 | 181 | 0 | 196 | | 761 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 236 | 285 | 286 | 0 | 2 | | 809 |
| B | 129 | 0 | 127 | 0 | 0 | 262 | | 518 |
| C | 182 | 218 | 0 | 324 | 0 | 106 | | 830 |
| D | 185 | 0 | 74 | 0 | 0 | 126 | | 385 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 34 | 246 | 136 | 29 | 0 | 0 | | 445 |
| G | | | | | | | | |
| TOTAL | 530 | 700 | 622 | 639 | 0 | 496 | | 2987 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 148 | 236 | 145 | 0 | 1 | | 530 |
| B | 82 | 0 | 91 | 0 | 0 | 121 | | 294 |
| C | 143 | 119 | 0 | 170 | 0 | 71 | | 503 |
| D | 63 | 0 | 24 | 0 | 0 | 20 | | 107 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 16 | 108 | 80 | 20 | 0 | 0 | | 224 |
| G | | | | | | | | |
| TOTAL | 304 | 375 | 431 | 335 | 0 | 213 | | 1658 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 35 | 66 | 0 | 1 | | 156 |
| B | 12 | 0 | 26 | 0 | 0 | 52 | | 90 |
| C | 23 | 36 | 0 | 73 | 0 | 25 | | 157 |
| D | 48 | 0 | 19 | 0 | 0 | 21 | | 88 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 11 | 29 | 20 | 4 | 0 | 0 | | 64 |
| G | | | | | | | | |
| TOTAL | 94 | 119 | 100 | 143 | 0 | 99 | | 555 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 14 | 75 | 0 | 0 | | 123 |
| B | 35 | 0 | 10 | 0 | 0 | 89 | | 134 |
| C | 16 | 63 | 0 | 81 | 0 | 10 | | 170 |
| D | 74 | 0 | 31 | 0 | 0 | 85 | | 190 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 7 | 109 | 36 | 5 | 0 | 0 | | 157 |
| G | | | | | | | | |
| TOTAL | 132 | 206 | 91 | 161 | 0 | 184 | | 774 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 220 | 304 | 332 | 0 | 2 | | 858 |
| B | 188 | 0 | 229 | 0 | 0 | 377 | | 794 |
| C | 212 | 128 | 0 | 378 | 0 | 101 | | 819 |
| D | 223 | 0 | 79 | 0 | 0 | 160 | | 462 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 36 | 275 | 179 | 37 | 0 | 0 | | 527 |
| G | | | | | | | | |
| TOTAL | 659 | 623 | 791 | 747 | 0 | 640 | | 3460 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 168 | 269 | 275 | 0 | 1 | | 713 |
| B | 129 | 0 | 191 | 0 | 0 | 265 | | 585 |
| C | 190 | 117 | 0 | 288 | 0 | 95 | | 690 |
| D | 161 | 0 | 48 | 0 | 0 | 117 | | 326 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 32 | 198 | 151 | 31 | 0 | 0 | | 412 |
| G | | | | | | | | |
| TOTAL | 512 | 483 | 659 | 594 | 0 | 478 | | 2726 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 30 | 32 | 0 | 1 | | 100 |
| B | 35 | 0 | 30 | 0 | 0 | 34 | | 99 |
| C | 20 | 11 | 0 | 49 | 0 | 5 | | 85 |
| D | 27 | 0 | 16 | 0 | 0 | 10 | | 53 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 4 | 24 | 13 | 2 | 0 | 0 | | 43 |
| G | | | | | | | | |
| TOTAL | 86 | 72 | 89 | 83 | 0 | 50 | | 380 |

MODELLED — HGV

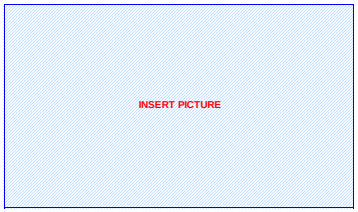
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 5 | 25 | 0 | 0 | | 45 |
| B | 24 | 0 | 8 | 0 | 0 | 78 | | 110 |
| C | 2 | 0 | 0 | 41 | 0 | 1 | | 44 |
| D | 35 | 0 | 15 | 0 | 0 | 33 | | 83 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 0 | 53 | 15 | 4 | 0 | 0 | | 72 |
| G | | | | | | | | |
| TOTAL | 61 | 68 | 43 | 70 | 0 | 112 | | 354 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | 045 Manchester Road |
| B | 60003 | 60010 | 60010 | 60003 | 4 Queen Elizabeth Wa |
| C | 2814 | 60010 | 60010 | 2814 | 045 Manchester Road |
| D | 60008 | 60010 | 60010 | 60008 | 4 Queen Elizabeth Wa |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 192 | 208 | 84 | | | | 484 |
| B | 135 | 0 | 102 | 571 | | | | 808 |
| C | 355 | 133 | 0 | 149 | | | | 637 |
| D | 102 | 341 | 52 | 0 | | | | 495 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 592 | 666 | 362 | 804 | | | | 2425 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 154 | 181 | 64 | | | | 399 |
| B | 105 | 0 | 70 | 300 | | | | 475 |
| C | 308 | 119 | 0 | 109 | | | | 536 |
| D | 74 | 154 | 43 | 0 | | | | 271 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 486 | 426 | 294 | 473 | | | | 1680 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 16 | 20 | | | | 62 |
| B | 16 | 0 | 28 | 93 | | | | 137 |
| C | 35 | 11 | 0 | 14 | | | | 60 |
| D | 17 | 35 | 7 | 0 | | | | 59 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 73 | 51 | 127 | | | | 318 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 9 | 0 | | | | 21 |
| B | 14 | 0 | 4 | 178 | | | | 197 |
| C | 13 | 3 | 0 | 25 | | | | 42 |
| D | 11 | 152 | 2 | 0 | | | | 165 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 167 | 15 | 204 | | | | 424 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 229 | 74 | | | | 342 |
| B | 128 | 0 | 49 | 319 | | | | 496 |
| C | 384 | 117 | 0 | 89 | | | | 590 |
| D | 89 | 289 | 72 | 0 | | | | 449 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 600 | 446 | 350 | 482 | | | | 1878 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 168 | 54 | | | | 246 |
| B | 69 | 0 | 37 | 108 | | | | 214 |
| C | 295 | 65 | 0 | 55 | | | | 416 |
| D | 55 | 136 | 60 | 0 | | | | 252 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 419 | 225 | 265 | 217 | | | | 1127 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 29 | 18 | | | | 54 |
| B | 51 | 0 | 9 | 39 | | | | 99 |
| C | 50 | 20 | 0 | 15 | | | | 85 |
| D | 27 | 38 | 9 | 0 | | | | 74 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 128 | 64 | 47 | 72 | | | | 311 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 29 | 1 | | | | 40 |
| B | 9 | 0 | 2 | 172 | | | | 184 |
| C | 36 | 32 | 0 | 19 | | | | 88 |
| D | 6 | 114 | 3 | 0 | | | | 123 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 52 | 156 | 35 | 193 | | | | 436 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 304 | 57 | | | | 398 |
| B | 136 | 0 | 118 | 387 | | | | 641 |
| C | 517 | 188 | 0 | 78 | | | | 783 |
| D | 128 | 301 | 101 | 0 | | | | 530 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 781 | 526 | 523 | 522 | | | | 2352 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 273 | 39 | | | | 337 |
| B | 115 | 0 | 98 | 265 | | | | 479 |
| C | 448 | 165 | 0 | 61 | | | | 674 |
| D | 109 | 221 | 89 | 0 | | | | 419 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 672 | 412 | 461 | 365 | | | | 1909 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 23 | 16 | | | | 43 |
| B | 14 | 0 | 15 | 21 | | | | 51 |
| C | 49 | 21 | 0 | 10 | | | | 80 |
| D | 11 | 18 | 10 | 0 | | | | 39 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 43 | 49 | 47 | | | | 213 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 6 | 2 | | | | 16 |
| B | 6 | 0 | 4 | 101 | | | | 111 |
| C | 18 | 2 | 0 | 7 | | | | 27 |
| D | 8 | 62 | 2 | 0 | | | | 71 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 72 | 11 | 110 | | | | 226 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.94 | 0 | 1.96 | 0 | | | | 3.9 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Hill Top Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | rehills Rd EB |
| B | 60036 | 60031 | 60031 | 60036 | ill Top Road |
| C | 60230 | 7454 | 7454 | 60230 | rehills Rd SB |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 125 | 389 | 54 | | | | 568 |
| B | 95 | 0 | 15 | 2 | | | | 112 |
| C | 673 | 67 | 0 | 154 | | | | 894 |
| D | 64 | 0 | 38 | 0 | | | | 102 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 832 | 192 | 442 | 210 | | | | 1676 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 214 | 43 | | | | 319 |
| B | 11 | 0 | 3 | 0 | | | | 14 |
| C | 458 | 41 | 0 | 60 | | | | 559 |
| D | 15 | 0 | 3 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 484 | 103 | 220 | 103 | | | | 910 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 54 | 7 | | | | 70 |
| B | 8 | 0 | 1 | 1 | | | | 10 |
| C | 107 | 5 | 0 | 19 | | | | 131 |
| D | 15 | 0 | 2 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 130 | 14 | 57 | 27 | | | | 228 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 121 | 4 | | | | 179 |
| B | 76 | 0 | 11 | 1 | | | | 88 |
| C | 108 | 21 | 0 | 75 | | | | 204 |
| D | 34 | 0 | 33 | 0 | | | | 67 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 218 | 75 | 165 | 80 | | | | 538 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 371 | 28 | | | | 477 |
| B | 113 | 0 | 25 | 1 | | | | 139 |
| C | 311 | 48 | 0 | 112 | | | | 471 |
| D | 105 | 2 | 48 | 0 | | | | 155 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 529 | 128 | 444 | 141 | | | | 1242 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 219 | 21 | | | | 264 |
| B | 33 | 0 | 13 | 0 | | | | 46 |
| C | 179 | 8 | 0 | 19 | | | | 206 |
| D | 35 | 1 | 15 | 0 | | | | 51 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 247 | 33 | 247 | 40 | | | | 567 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 59 | 5 | | | | 76 |
| B | 17 | 0 | 7 | 1 | | | | 25 |
| C | 41 | 8 | 0 | 22 | | | | 71 |
| D | 22 | 1 | 8 | 0 | | | | 31 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 80 | 21 | 74 | 28 | | | | 203 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 93 | 2 | | | | 137 |
| B | 63 | 0 | 5 | 0 | | | | 68 |
| C | 91 | 32 | 0 | 71 | | | | 194 |
| D | 48 | 0 | 25 | 0 | | | | 73 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 202 | 74 | 123 | 73 | | | | 472 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 466 | 14 | | | | 531 |
| B | 99 | 0 | 49 | 0 | | | | 148 |
| C | 367 | 25 | 0 | 51 | | | | 443 |
| D | 148 | 0 | 54 | 0 | | | | 202 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 614 | 76 | 569 | 65 | | | | 1324 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 390 | 13 | | | | 423 |
| B | 69 | 0 | 31 | 0 | | | | 100 |
| C | 269 | 12 | 0 | 9 | | | | 290 |
| D | 112 | 0 | 33 | 0 | | | | 145 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 450 | 32 | 454 | 22 | | | | 958 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 35 | 1 | | | | 38 |
| B | 4 | 0 | 8 | 0 | | | | 12 |
| C | 38 | 1 | 0 | 4 | | | | 43 |
| D | 12 | 0 | 1 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 3 | 44 | 5 | | | | 106 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 41 | 0 | | | | 70 |
| B | 26 | 0 | 10 | 0 | | | | 36 |
| C | 60 | 12 | 0 | 38 | | | | 110 |
| D | 24 | 0 | 20 | 0 | | | | 44 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 110 | 41 | 71 | 38 | | | | 260 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Pilsworth Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 252 | 340 | | | | | 592 |
| B | 499 | 0 | 226 | | | | | 726 |
| C | 569 | 263 | 0 | | | | | 832 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1068 | 515 | 566 | | | | | 2149 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 166 | 151 | | | | | 318 |
| B | 367 | 0 | 165 | | | | | 533 |
| C | 311 | 173 | 0 | | | | | 484 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 679 | 339 | 317 | | | | | 1335 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 34 | | | | | 62 |
| B | 48 | 0 | 35 | | | | | 84 |
| C | 62 | 67 | 0 | | | | | 130 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 110 | 94 | 70 | | | | | 275 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 154 | | | | | 213 |
| B | 84 | 0 | 25 | | | | | 110 |
| C | 195 | 23 | 0 | | | | | 218 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 280 | 81 | 179 | | | | | 540 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 335 | 328 | | | | | 663 |
| B | 258 | 0 | 149 | | | | | 407 |
| C | 345 | 183 | 0 | | | | | 528 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 603 | 519 | 476 | | | | | 1598 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 213 | 166 | | | | | 379 |
| B | 168 | 0 | 98 | | | | | 266 |
| C | 135 | 111 | 0 | | | | | 246 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 303 | 324 | 264 | | | | | 891 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 48 | | | | | 98 |
| B | 38 | 0 | 27 | | | | | 65 |
| C | 45 | 35 | 0 | | | | | 80 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 83 | 85 | 75 | | | | | 243 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 113 | | | | | 186 |
| B | 52 | 0 | 23 | | | | | 76 |
| C | 165 | 37 | 0 | | | | | 202 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 218 | 110 | 137 | | | | | 464 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 414 | 364 | | | | | 778 |
| B | 252 | 0 | 167 | | | | | 419 |
| C | 353 | 261 | 0 | | | | | 614 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 605 | 676 | 530 | | | | | 1811 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 359 | 285 | | | | | 644 |
| B | 204 | 0 | 137 | | | | | 341 |
| C | 226 | 225 | 0 | | | | | 451 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 429 | 585 | 422 | | | | | 1436 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 19 | | | | | 49 |
| B | 12 | 0 | 19 | | | | | 31 |
| C | 27 | 26 | 0 | | | | | 53 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 39 | 57 | 38 | | | | | 134 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 60 | | | | | 85 |
| B | 36 | 0 | 10 | | | | | 47 |
| C | 100 | 10 | 0 | | | | | 110 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 136 | 34 | 70 | | | | | 241 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / A58 Bury St

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 482 | 139 | | | | | 621 |
| B | 590 | 0 | 473 | | | | | 1063 |
| C | 232 | 312 | 0 | | | | | 543 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 822 | 793 | 612 | | | | | 2227 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 330 | 114 | | | | | 444 |
| B | 385 | 0 | 326 | | | | | 711 |
| C | 157 | 244 | 0 | | | | | 401 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 542 | 574 | 441 | | | | | 1557 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 92 | 16 | | | | | 108 |
| B | 112 | 0 | 45 | | | | | 157 |
| C | 63 | 20 | 0 | | | | | 83 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 175 | 112 | 61 | | | | | 347 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 8 | | | | | 59 |
| B | 83 | 0 | 82 | | | | | 166 |
| C | 12 | 30 | 0 | | | | | 42 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 80 | 91 | | | | | 266 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 19 | | | | | 29 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 27 | 19 | | | | | 57 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 524 | 118 | | | | | 641 |
| B | 494 | 0 | 294 | | | | | 788 |
| C | 145 | 331 | 0 | | | | | 477 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 640 | 855 | 411 | | | | | 1906 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 387 | 90 | | | | | 477 |
| B | 339 | 0 | 192 | | | | | 531 |
| C | 113 | 206 | 0 | | | | | 318 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 452 | 592 | 282 | | | | | 1326 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 79 | 20 | | | | | 99 |
| B | 88 | 0 | 36 | | | | | 125 |
| C | 22 | 35 | 0 | | | | | 57 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 110 | 114 | 56 | | | | | 280 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 7 | | | | | 56 |
| B | 57 | 0 | 46 | | | | | 103 |
| C | 11 | 72 | 0 | | | | | 84 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 121 | 53 | | | | | 242 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.91 | 27.87 | 19.81 | | | | | 57.59 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 540 | 111 | | | | | 651 |
| B | 568 | 0 | 337 | | | | | 905 |
| C | 202 | 310 | 0 | | | | | 512 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 770 | 849 | 448 | | | | | 2068 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 480 | 97 | | | | | 578 |
| B | 488 | 0 | 273 | | | | | 761 |
| C | 181 | 261 | 0 | | | | | 442 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 669 | 741 | 370 | | | | | 1780 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 12 | | | | | 55 |
| B | 57 | 0 | 27 | | | | | 85 |
| C | 18 | 25 | 0 | | | | | 43 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 68 | 39 | | | | | 183 |

MODELLED — HGV

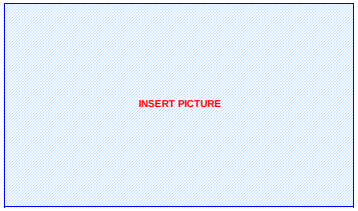
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 2 | | | | | 11 |
| B | 15 | 0 | 18 | | | | | 32 |
| C | 3 | 6 | 0 | | | | | 9 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 18 | 14 | 20 | | | | | 52 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 20 | | | | | 27 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.81 | 25.75 | 19.53 | | | | | 53.09 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / Heywood Distribution Centre




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | Pilsworth Rd NB |
| B | 20430 | 7459 | 7459 | 20430 | ywood Distribution Cer |
| C | 2813 | 7459 | 7459 | 2813 | Pilsworth Rd SB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 303 | 425 | | | | | 728 |
| B | 166 | 0 | 167 | | | | | 333 |
| C | 836 | 233 | 0 | | | | | 1068 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1002 | 536 | 592 | | | | | 2130 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 175 | 276 | | | | | 451 |
| B | 33 | 0 | 42 | | | | | 74 |
| C | 551 | 128 | 0 | | | | | 679 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 583 | 302 | 318 | | | | | 1203 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 43 | | | | | 64 |
| B | 29 | 0 | 19 | | | | | 48 |
| C | 87 | 24 | 0 | | | | | 110 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 116 | 45 | 62 | | | | | 223 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 107 | 106 | | | | | 213 |
| B | 104 | 0 | 106 | | | | | 210 |
| C | 198 | 81 | 0 | | | | | 279 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 302 | 188 | 213 | | | | | 703 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 244 | 458 | | | | | 702 |
| B | 214 | 0 | 205 | | | | | 419 |
| C | 451 | 152 | 0 | | | | | 603 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 665 | 396 | 663 | | | | | 1724 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 69 | 285 | | | | | 354 |
| B | 82 | 0 | 94 | | | | | 176 |
| C | 233 | 70 | 0 | | | | | 303 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 315 | 139 | 379 | | | | | 832 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 69 | | | | | 108 |
| B | 35 | 0 | 29 | | | | | 63 |
| C | 64 | 19 | 0 | | | | | 83 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 99 | 57 | 98 | | | | | 254 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 136 | 104 | | | | | 240 |
| B | 97 | 0 | 82 | | | | | 179 |
| C | 154 | 64 | 0 | | | | | 218 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 251 | 200 | 186 | | | | | 638 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 124 | 628 | | | | | 752 |
| B | 211 | 0 | 150 | | | | | 361 |
| C | 514 | 91 | 0 | | | | | 605 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 725 | 215 | 778 | | | | | 1718 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 531 | | | | | 575 |
| B | 164 | 0 | 114 | | | | | 278 |
| C | 387 | 42 | 0 | | | | | 429 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 551 | 86 | 644 | | | | | 1282 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 43 | | | | | 54 |
| B | 15 | 0 | 6 | | | | | 21 |
| C | 31 | 8 | 0 | | | | | 39 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 46 | 18 | 49 | | | | | 113 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 70 | 54 | | | | | 124 |
| B | 32 | 0 | 31 | | | | | 63 |
| C | 96 | 41 | 0 | | | | | 136 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 128 | 110 | 85 | | | | | 323 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / JPA1.1 & SHDA employment

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | *Pilsworth Rd SB* |
| B | 60027 | 60229 | 60229 | 60027 | *SHDA* |
| C | 60024 | 60229 | 60229 | 60024 | *Pilsworth Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 981 | | | | | 1002 |
| B | 12 | 0 | 18 | | | | | 30 |
| C | 716 | 33 | 0 | | | | | 749 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 728 | 53 | 1000 | | | | | 1781 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 575 | | | | | 583 |
| B | 3 | 0 | 6 | | | | | 9 |
| C | 448 | 16 | 0 | | | | | 464 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 451 | 24 | 581 | | | | | 1056 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 113 | | | | | 116 |
| B | 1 | 0 | 2 | | | | | 4 |
| C | 63 | 3 | 0 | | | | | 66 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 64 | 6 | 116 | | | | | 186 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 293 | | | | | 302 |
| B | 8 | 0 | 10 | | | | | 18 |
| C | 205 | 14 | 0 | | | | | 219 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 213 | 23 | 303 | | | | | 539 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 652 | | | | | 665 |
| B | 18 | 0 | 25 | | | | | 43 |
| C | 684 | 27 | 0 | | | | | 711 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 702 | 40 | 677 | | | | | 1419 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 310 | | | | | 315 |
| B | 5 | 0 | 8 | | | | | 14 |
| C | 348 | 7 | 0 | | | | | 356 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 354 | 12 | 318 | | | | | 684 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 97 | | | | | 99 |
| B | 3 | 0 | 4 | | | | | 8 |
| C | 105 | 5 | 0 | | | | | 110 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 108 | 7 | 101 | | | | | 216 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 245 | | | | | 251 |
| B | 9 | 0 | 12 | | | | | 22 |
| C | 231 | 15 | 0 | | | | | 246 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 240 | 20 | 258 | | | | | 519 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 718 | | | | | 725 |
| B | 16 | 0 | 29 | | | | | 45 |
| C | 736 | 14 | 0 | | | | | 750 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 752 | 21 | 747 | | | | | 1520 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 549 | | | | | 551 |
| B | 9 | 0 | 20 | | | | | 29 |
| C | 566 | 6 | 0 | | | | | 572 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 575 | 8 | 569 | | | | | 1152 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 46 | | | | | 46 |
| B | 1 | 0 | 2 | | | | | 3 |
| C | 53 | 1 | 0 | | | | | 54 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 1 | 48 | | | | | 102 |

MODELLED — HGV

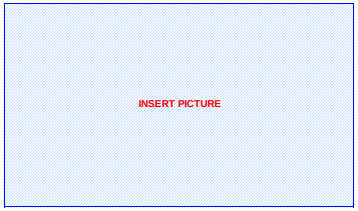
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 123 | | | | | 128 |
| B | 6 | 0 | 7 | | | | | 13 |
| C | 118 | 7 | 0 | | | | | 125 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 124 | 12 | 130 | | | | | 266 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** 3 Arrows (Pilsworth Road / Moss Hall Road - South)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 60241 | 2037 | 2037 | 60241 | *Link Road* |
| D | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 255 | 732 | 13 | | | | 1000 |
| B | 75 | 0 | 390 | 2 | | | | 468 |
| C | 670 | 887 | 0 | 18 | | | | 1575 |
| D | 3 | 1 | 14 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 749 | 1143 | 1136 | 33 | | | | 3061 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 151 | 423 | 7 | | | | 581 |
| B | 18 | 0 | 189 | 2 | | | | 209 |
| C | 445 | 519 | 0 | 5 | | | | 969 |
| D | 1 | 1 | 1 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 464 | 672 | 613 | 14 | | | | 1762 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 90 | 2 | | | | 116 |
| B | 9 | 0 | 81 | 0 | | | | 90 |
| C | 57 | 113 | 0 | 4 | | | | 174 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 66 | 137 | 171 | 6 | | | | 380 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 79 | 219 | 4 | | | | 303 |
| B | 48 | 0 | 120 | 0 | | | | 169 |
| C | 168 | 255 | 0 | 8 | | | | 432 |
| D | 2 | 0 | 13 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 219 | 335 | 352 | 13 | | | | 919 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 104 | 568 | 5 | | | | 677 |
| B | 130 | 0 | 567 | 1 | | | | 698 |
| C | 572 | 530 | 0 | 23 | | | | 1124 |
| D | 9 | 4 | 18 | 0 | | | | 31 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 711 | 638 | 1153 | 29 | | | | 2531 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 272 | 3 | | | | 318 |
| B | 57 | 0 | 337 | 1 | | | | 394 |
| C | 295 | 249 | 0 | 2 | | | | 546 |
| D | 3 | 1 | 5 | 0 | | | | 9 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 356 | 293 | 613 | 5 | | | | 1267 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 73 | 2 | | | | 101 |
| B | 26 | 0 | 104 | 1 | | | | 130 |
| C | 82 | 114 | 0 | 2 | | | | 198 |
| D | 2 | 0 | 1 | 0 | | | | 4 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 110 | 140 | 178 | 5 | | | | 432 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 223 | 0 | | | | 258 |
| B | 47 | 0 | 127 | 0 | | | | 174 |
| C | 194 | 167 | 0 | 19 | | | | 381 |
| D | 4 | 3 | 12 | 0 | | | | 19 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 246 | 205 | 362 | 19 | | | | 831 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 686 | 14 | | | | 747 |
| B | 152 | 0 | 769 | 8 | | | | 928 |
| C | 591 | 430 | 0 | 13 | | | | 1034 |
| D | 8 | 2 | 10 | 0 | | | | 20 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 750 | 478 | 1465 | 35 | | | | 2729 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 536 | 9 | | | | 569 |
| B | 80 | 0 | 640 | 5 | | | | 724 |
| C | 486 | 350 | 0 | 10 | | | | 846 |
| D | 6 | 1 | 7 | 0 | | | | 14 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 572 | 376 | 1183 | 23 | | | | 2153 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 42 | 0 | | | | 48 |
| B | 12 | 0 | 64 | 0 | | | | 76 |
| C | 40 | 23 | 0 | 1 | | | | 64 |
| D | 2 | 0 | 2 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 28 | 107 | 1 | | | | 191 |

MODELLED — HGV

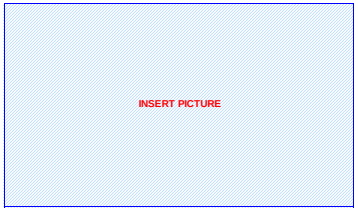
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 108 | 5 | | | | 130 |
| B | 60 | 0 | 65 | 3 | | | | 127 |
| C | 65 | 57 | 0 | 3 | | | | 125 |
| D | 0 | 0 | 2 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 125 | 74 | 175 | 11 | | | | 385 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Fowler Welch (Pilsworth Road / Moss Hall Road - North)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60241 | 60246 | 60246 | 60241 | *Moss Hall Rd NB* |
| B | 60000 | 60213 | 60213 | 60000 | *Pilsworth Road* |
| C | 60228 | 2038 | 2038 | 60228 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 946 | 189 | | | | | 1135 |
| B | 1173 | 0 | 134 | | | | | 1307 |
| C | 402 | 129 | 0 | | | | | 531 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1575 | 1075 | 323 | | | | | 2973 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 552 | 60 | | | | | 612 |
| B | 703 | 0 | 99 | | | | | 802 |
| C | 266 | 102 | 0 | | | | | 368 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 969 | 654 | 159 | | | | | 1782 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 117 | 54 | | | | | 171 |
| B | 104 | 0 | 20 | | | | | 124 |
| C | 70 | 20 | 0 | | | | | 90 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 174 | 137 | 74 | | | | | 385 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 277 | 75 | | | | | 352 |
| B | 366 | 0 | 15 | | | | | 381 |
| C | 66 | 7 | 0 | | | | | 73 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 432 | 284 | 90 | | | | | 806 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 773 | 382 | | | | | 1155 |
| B | 998 | 0 | 63 | | | | | 1061 |
| C | 127 | 106 | 0 | | | | | 233 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1125 | 879 | 445 | | | | | 2449 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 383 | 232 | | | | | 615 |
| B | 531 | 0 | 43 | | | | | 574 |
| C | 16 | 85 | 0 | | | | | 101 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 547 | 468 | 275 | | | | | 1290 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 112 | 66 | | | | | 178 |
| B | 154 | 0 | 13 | | | | | 167 |
| C | 43 | 16 | 0 | | | | | 59 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 197 | 128 | 79 | | | | | 404 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 278 | 84 | | | | | 362 |
| B | 313 | 0 | 7 | | | | | 320 |
| C | 68 | 5 | 0 | | | | | 73 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 381 | 283 | 91 | | | | | 755 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 967 | 498 | | | | | 1465 |
| B | 944 | 0 | 157 | | | | | 1101 |
| C | 89 | 136 | 0 | | | | | 225 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1033 | 1103 | 655 | | | | | 2791 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 767 | 416 | | | | | 1183 |
| B | 807 | 0 | 136 | | | | | 943 |
| C | 38 | 122 | 0 | | | | | 160 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 845 | 889 | 552 | | | | | 2286 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 36 | | | | | 107 |
| B | 46 | 0 | 19 | | | | | 65 |
| C | 17 | 13 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 63 | 84 | 55 | | | | | 202 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 129 | 46 | | | | | 175 |
| B | 91 | 0 | 2 | | | | | 93 |
| C | 34 | 1 | 0 | | | | | 35 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 125 | 130 | 48 | | | | | 303 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | *TC 11 - Pilsworth Rd E* |
| B | 3001 | 60238 | 60239 | 3000 | *JTC 11 - M66 SB Off* |
| C | 60213 | 60000 | 60000 | 60213 | *TC 11 - Pilsworth Rd W* |
| D | 60236 | 4918 | 60240 | 2998 | *JTC 11 - M66 NB Off* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 367 | 577 | 218 | | | | 1162 |
| B | 415 | 0 | 313 | 0 | | | | 728 |
| C | 373 | 224 | 0 | 480 | | | | 1077 |
| D | 751 | 0 | 416 | 0 | | | | 1167 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1539 | 591 | 1306 | 698 | | | | 4134 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 261 | 437 | 145 | | | | 843 |
| B | 330 | 0 | 156 | 0 | | | | 486 |
| C | 286 | 166 | 0 | 204 | | | | 656 |
| D | 626 | 0 | 209 | 0 | | | | 835 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1242 | 427 | 802 | 349 | | | | 2820 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 56 | 69 | 54 | | | | 179 |
| B | 47 | 0 | 13 | 0 | | | | 60 |
| C | 52 | 39 | 0 | 47 | | | | 138 |
| D | 70 | 0 | 42 | 0 | | | | 112 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 169 | 95 | 124 | 101 | | | | 489 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 71 | 19 | | | | 140 |
| B | 38 | 0 | 144 | 0 | | | | 182 |
| C | 35 | 19 | 0 | 229 | | | | 283 |
| D | 55 | 0 | 165 | 0 | | | | 220 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 128 | 69 | 380 | 248 | | | | 825 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 453 | 452 | 203 | | | | 1108 |
| B | 338 | 0 | 263 | 0 | | | | 601 |
| C | 292 | 147 | 0 | 438 | | | | 877 |
| D | 411 | 0 | 345 | 0 | | | | 756 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1041 | 600 | 1060 | 641 | | | | 3342 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 344 | 283 | 179 | | | | 806 |
| B | 251 | 0 | 206 | 0 | | | | 457 |
| C | 214 | 98 | 0 | 155 | | | | 467 |
| D | 296 | 0 | 85 | 0 | | | | 381 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 761 | 442 | 574 | 334 | | | | 2111 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 69 | 23 | | | | 154 |
| B | 45 | 0 | 30 | 0 | | | | 75 |
| C | 40 | 23 | 0 | 65 | | | | 128 |
| D | 57 | 0 | 68 | 0 | | | | 125 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 142 | 85 | 167 | 88 | | | | 482 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 100 | 1 | | | | 148 |
| B | 42 | 0 | 27 | 0 | | | | 69 |
| C | 38 | 26 | 0 | 218 | | | | 282 |
| D | 58 | 0 | 192 | 0 | | | | 250 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 138 | 73 | 319 | 219 | | | | 749 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 525 | 544 | 192 | | | | 1261 |
| B | 297 | 0 | 287 | 0 | | | | 584 |
| C | 404 | 194 | 0 | 504 | | | | 1102 |
| D | 521 | 0 | 272 | 0 | | | | 793 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1222 | 719 | 1103 | 696 | | | | 3740 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 478 | 496 | 170 | | | | 1144 |
| B | 259 | 0 | 258 | 0 | | | | 517 |
| C | 347 | 172 | 0 | 370 | | | | 889 |
| D | 391 | 0 | 190 | 0 | | | | 581 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 997 | 650 | 944 | 540 | | | | 3131 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 24 | 20 | | | | 76 |
| B | 29 | 0 | 13 | 0 | | | | 42 |
| C | 28 | 19 | 0 | 37 | | | | 84 |
| D | 64 | 0 | 28 | 0 | | | | 92 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 51 | 65 | 57 | | | | 294 |

MODELLED — HGV

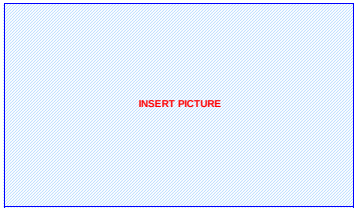
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 24 | 2 | | | | 41 |
| B | 9 | 0 | 16 | 0 | | | | 25 |
| C | 29 | 3 | 0 | 97 | | | | 129 |
| D | 66 | 0 | 54 | 0 | | | | 120 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 18 | 94 | 99 | | | | 315 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N\12 - M66 NB Of |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water\ 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 147 | 112 | 439 | 1336 | 56 | | 2090 |
| B | 291 | 0 | 26 | 155 | 0 | 36 | | 508 |
| C | 63 | 3 | 0 | 12 | 21 | 0 | | 99 |
| D | 664 | 221 | 28 | 0 | 330 | 75 | | 1318 |
| E | 1526 | 0 | 65 | 172 | 0 | 105 | | 1868 |
| F | 40 | 6 | 1 | 40 | 31 | 0 | | 118 |
| G | | | | | | | | |
| TOTAL | 2584 | 377 | 232 | 818 | 1718 | 272 | | 6001 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 114 | 47 | 318 | 1019 | 52 | | 1550 |
| B | 270 | 0 | 24 | 104 | 0 | 31 | | 429 |
| C | 11 | 1 | 0 | 5 | 7 | 0 | | 24 |
| D | 519 | 152 | 22 | 0 | 232 | 41 | | 966 |
| E | 1172 | 0 | 51 | 99 | 0 | 96 | | 1418 |
| F | 32 | 4 | 1 | 23 | 23 | 0 | | 83 |
| G | | | | | | | | |
| TOTAL | 2004 | 271 | 145 | 549 | 1281 | 220 | | 4470 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 33 | 71 | 199 | 3 | | 333 |
| B | 17 | 0 | 2 | 25 | 0 | 1 | | 45 |
| C | 37 | 2 | 0 | 5 | 9 | 0 | | 53 |
| D | 57 | 33 | 4 | 0 | 52 | 12 | | 158 |
| E | 176 | 0 | 7 | 46 | 0 | 6 | | 235 |
| F | 3 | 1 | 0 | 5 | 5 | 0 | | 14 |
| G | | | | | | | | |
| TOTAL | 290 | 63 | 46 | 152 | 265 | 22 | | 838 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 32 | 50 | 118 | 1 | | 207 |
| B | 4 | 0 | 0 | 26 | 0 | 4 | | 34 |
| C | 15 | 0 | 0 | 2 | 5 | 0 | | 22 |
| D | 88 | 36 | 2 | 0 | 46 | 22 | | 194 |
| E | 178 | 0 | 7 | 27 | 0 | 3 | | 215 |
| F | 5 | 1 | 0 | 12 | 3 | 0 | | 21 |
| G | | | | | | | | |
| TOTAL | 290 | 43 | 41 | 117 | 172 | 30 | | 693 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 162 | 116 | 300 | 1344 | 32 | | 1954 |
| B | 208 | 0 | 22 | 181 | 0 | 12 | | 423 |
| C | 83 | 13 | 0 | 15 | 36 | 1 | | 148 |
| D | 583 | 160 | 36 | 0 | 118 | 63 | | 960 |
| E | 1253 | 0 | 50 | 249 | 0 | 47 | | 1599 |
| F | 47 | 14 | 2 | 47 | 47 | 0 | | 157 |
| G | | | | | | | | |
| TOTAL | 2174 | 349 | 226 | 792 | 1545 | 155 | | 5241 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 118 | 58 | 188 | 997 | 27 | | 1388 |
| B | 169 | 0 | 17 | 124 | 0 | 9 | | 319 |
| C | 29 | 8 | 0 | 9 | 24 | 1 | | 71 |
| D | 422 | 98 | 24 | 0 | 57 | 30 | | 631 |
| E | 892 | 0 | 38 | 163 | 0 | 35 | | 1128 |
| F | 42 | 11 | 2 | 24 | 40 | 0 | | 119 |
| G | | | | | | | | |
| TOTAL | 1554 | 235 | 139 | 508 | 1118 | 102 | | 3656 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 38 | 58 | 195 | 3 | | 317 |
| B | 22 | 0 | 3 | 27 | 0 | 1 | | 53 |
| C | 44 | 3 | 0 | 5 | 7 | 0 | | 59 |
| D | 84 | 37 | 7 | 0 | 30 | 14 | | 172 |
| E | 208 | 0 | 8 | 48 | 0 | 5 | | 269 |
| F | 4 | 2 | 0 | 10 | 4 | 0 | | 20 |
| G | | | | | | | | |
| TOTAL | 362 | 65 | 56 | 148 | 236 | 23 | | 890 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 20 | 54 | 152 | 2 | | 249 |
| B | 17 | 0 | 2 | 30 | 0 | 2 | | 51 |
| C | 10 | 2 | 0 | 1 | 5 | 0 | | 18 |
| D | 77 | 25 | 5 | 0 | 31 | 19 | | 157 |
| E | 153 | 0 | 4 | 38 | 0 | 7 | | 202 |
| F | 1 | 1 | 0 | 13 | 3 | 0 | | 18 |
| G | | | | | | | | |
| TOTAL | 258 | 49 | 31 | 136 | 191 | 30 | | 695 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 248 | 35 | 423 | 1425 | 42 | | 2173 |
| B | 293 | 0 | 6 | 156 | 0 | 14 | | 469 |
| C | 53 | 13 | 0 | 18 | 50 | 1 | | 135 |
| D | 727 | 174 | 14 | 0 | 204 | 66 | | 1185 |
| E | 1398 | 0 | 19 | 343 | 0 | 62 | | 1822 |
| F | 45 | 20 | 0 | 54 | 116 | 0 | | 235 |
| G | | | | | | | | |
| TOTAL | 2516 | 455 | 74 | 994 | 1795 | 185 | | 6019 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 233 | 18 | 370 | 1310 | 40 | | 1971 |
| B | 273 | 0 | 5 | 137 | 0 | 13 | | 428 |
| C | 24 | 12 | 0 | 16 | 47 | 1 | | 100 |
| D | 629 | 152 | 12 | 0 | 167 | 55 | | 1015 |
| E | 1223 | 0 | 15 | 293 | 0 | 49 | | 1580 |
| F | 41 | 19 | 0 | 44 | 113 | 0 | | 217 |
| G | | | | | | | | |
| TOTAL | 2190 | 416 | 50 | 860 | 1637 | 158 | | 5311 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 15 | 32 | 91 | 2 | | 154 |
| B | 17 | 0 | 1 | 17 | 0 | 1 | | 36 |
| C | 25 | 1 | 0 | 2 | 3 | 0 | | 31 |
| D | 53 | 19 | 2 | 0 | 24 | 10 | | 108 |
| E | 134 | 0 | 4 | 34 | 0 | 6 | | 178 |
| F | 3 | 1 | 0 | 4 | 2 | 0 | | 10 |
| G | | | | | | | | |
| TOTAL | 232 | 35 | 22 | 89 | 120 | 19 | | 517 |

MODELLED — HGV

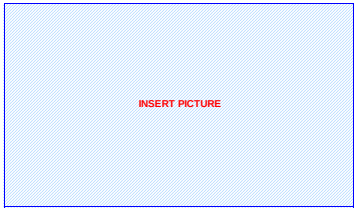
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 21 | 24 | 0 | | 48 |
| B | 3 | 0 | 0 | 2 | 0 | 0 | | 5 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 45 | 3 | 0 | 0 | 13 | 1 | | 62 |
| E | 41 | 0 | 0 | 16 | 0 | 7 | | 64 |
| F | 1 | 0 | 0 | 6 | 1 | 0 | | 8 |
| G | | | | | | | | |
| TOTAL | 94 | 4 | 2 | 45 | 38 | 8 | | 191 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | Heywood Old Road NE |
| B | 60074 | 2478 | 2478 | 60074 | Whittle Lane |
| C | 4730 | 2478 | 2478 | 4730 | Heywood Old Road SE |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 191 | 528 | | | | | 719 |
| B | 8 | 0 | 12 | | | | | 21 |
| C | 465 | 151 | 0 | | | | | 616 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 473 | 342 | 541 | | | | | 1355 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 159 | 431 | | | | | 591 |
| B | 5 | 0 | 7 | | | | | 12 |
| C | 379 | 121 | 0 | | | | | 501 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 384 | 281 | 439 | | | | | 1103 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 62 | | | | | 94 |
| B | 3 | 0 | 5 | | | | | 9 |
| C | 71 | 30 | 0 | | | | | 101 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 61 | 68 | | | | | 203 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 33 | | | | | 33 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 15 | 0 | 0 | | | | | 15 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 15 | 0 | 33 | | | | | 47 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 561 | | | | | 612 |
| B | 13 | 0 | 90 | | | | | 102 |
| C | 355 | 67 | 0 | | | | | 422 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 368 | 118 | 650 | | | | | 1136 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 390 | | | | | 420 |
| B | 10 | 0 | 60 | | | | | 69 |
| C | 280 | 35 | 0 | | | | | 315 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 290 | 65 | 449 | | | | | 804 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 83 | | | | | 104 |
| B | 3 | 0 | 30 | | | | | 33 |
| C | 45 | 32 | 0 | | | | | 76 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 48 | 53 | 113 | | | | | 214 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 87 | | | | | 87 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 0 | 87 | | | | | 117 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.98 | | | | | 1.98 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 775 | | | | | 792 |
| B | 36 | 0 | 167 | | | | | 202 |
| C | 514 | 43 | 0 | | | | | 557 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 550 | 60 | 942 | | | | | 1552 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 656 | | | | | 671 |
| B | 34 | 0 | 148 | | | | | 182 |
| C | 456 | 36 | 0 | | | | | 493 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 490 | 52 | 803 | | | | | 1345 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 93 | | | | | 95 |
| B | 2 | 0 | 19 | | | | | 21 |
| C | 52 | 6 | 0 | | | | | 58 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 8 | 112 | | | | | 174 |

MODELLED — HGV

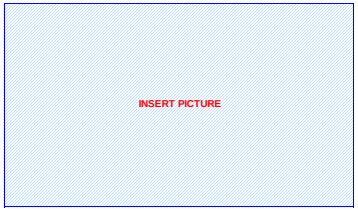
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 24 | | | | | 24 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 6 | 0 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 6 | 0 | 24 | | | | | 31 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.92 | | | | | 1.92 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Heywood Old Road / Langley Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | Heywood Old Road SB |
| B | 15238 | 4730 | 4730 | 15238 | Langley Lane |
| C | 2478 | 4730 | 4730 | 2478 | Heywood Old Road NB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 96 | 321 | | | | | 417 |
| B | 142 | 0 | 295 | | | | | 437 |
| C | 405 | 135 | 0 | | | | | 541 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 547 | 231 | 616 | | | | | 1394 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 82 | 269 | | | | | 351 |
| B | 131 | 0 | 231 | | | | | 363 |
| C | 327 | 111 | 0 | | | | | 439 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 459 | 193 | 501 | | | | | 1152 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 45 | | | | | 52 |
| B | 6 | 0 | 55 | | | | | 61 |
| C | 46 | 22 | 0 | | | | | 68 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 52 | 28 | 101 | | | | | 181 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 6 | | | | | 12 |
| B | 5 | 0 | 8 | | | | | 13 |
| C | 32 | 0 | 0 | | | | | 33 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 37 | 6 | 15 | | | | | 58 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 46 | 243 | | | | | 289 |
| B | 77 | 0 | 179 | | | | | 256 |
| C | 460 | 190 | 0 | | | | | 650 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 537 | 236 | 422 | | | | | 1195 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 180 | | | | | 220 |
| B | 64 | 0 | 135 | | | | | 199 |
| C | 311 | 138 | 0 | | | | | 449 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 375 | 179 | 315 | | | | | 869 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 34 | | | | | 37 |
| B | 6 | 0 | 42 | | | | | 49 |
| C | 70 | 43 | 0 | | | | | 113 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 76 | 46 | 76 | | | | | 198 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 29 | | | | | 30 |
| B | 5 | 0 | 1 | | | | | 6 |
| C | 79 | 7 | 0 | | | | | 87 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 84 | 8 | 30 | | | | | 122 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.98 | 0 | | | | | 5.98 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 319 | | | | | 371 |
| B | 119 | 0 | 238 | | | | | 357 |
| C | 617 | 325 | 0 | | | | | 942 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 736 | 377 | 557 | | | | | 1670 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 46 | 285 | | | | | 331 |
| B | 112 | 0 | 208 | | | | | 319 |
| C | 526 | 277 | 0 | | | | | 803 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 638 | 323 | 493 | | | | | 1454 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 28 | | | | | 31 |
| B | 4 | 0 | 30 | | | | | 34 |
| C | 68 | 45 | 0 | | | | | 112 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 48 | 58 | | | | | 178 |

MODELLED — HGV

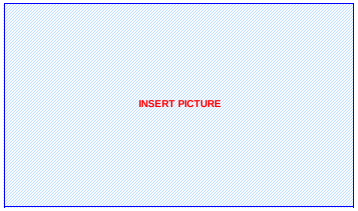
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 6 | | | | | 7 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 23 | 1 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 2 | 6 | | | | | 32 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.97 | 3.89 | 0 | | | | | 5.86 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Langley Lane / A6046 Hollin Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 105 | 912 | | | | | 1017 |
| B | 109 | 0 | 3 | | | | | 112 |
| C | 724 | 8 | 0 | | | | | 732 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 833 | 113 | 915 | | | | | 1860 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 657 | | | | | 700 |
| B | 81 | 0 | 2 | | | | | 84 |
| C | 397 | 7 | 0 | | | | | 404 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 479 | 50 | 660 | | | | | 1188 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 164 | | | | | 218 |
| B | 23 | 0 | 0 | | | | | 23 |
| C | 171 | 1 | 0 | | | | | 171 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 194 | 54 | 164 | | | | | 412 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 71 | | | | | 80 |
| B | 0 | 0 | 0 | | | | | 1 |
| C | 127 | 0 | 0 | | | | | 127 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 127 | 8 | 72 | | | | | 207 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 19 | | | | | 19 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 0 | 19 | | | | | 53 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 112 | 852 | | | | | 964 |
| B | 106 | 0 | 8 | | | | | 115 |
| C | 637 | 16 | 0 | | | | | 653 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 743 | 128 | 860 | | | | | 1732 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 66 | 503 | | | | | 569 |
| B | 58 | 0 | 7 | | | | | 65 |
| C | 420 | 16 | 0 | | | | | 436 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 478 | 82 | 510 | | | | | 1070 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 160 | | | | | 203 |
| B | 39 | 0 | 0 | | | | | 39 |
| C | 102 | 0 | 0 | | | | | 102 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 141 | 44 | 161 | | | | | 345 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 168 | | | | | 169 |
| B | 5 | 0 | 1 | | | | | 6 |
| C | 91 | 0 | 0 | | | | | 91 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 1 | 169 | | | | | 267 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.75 | 1.99 | 19.92 | | | | | 49.66 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 209 | 858 | | | | | 1067 |
| B | 102 | 0 | 5 | | | | | 108 |
| C | 763 | 52 | 0 | | | | | 815 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 865 | 261 | 863 | | | | | 1989 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 178 | 700 | | | | | 877 |
| B | 65 | 0 | 5 | | | | | 70 |
| C | 608 | 51 | 0 | | | | | 659 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 673 | 228 | 705 | | | | | 1606 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 87 | | | | | 117 |
| B | 32 | 0 | 0 | | | | | 32 |
| C | 90 | 1 | 0 | | | | | 90 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 30 | 88 | | | | | 240 |

MODELLED — HGV

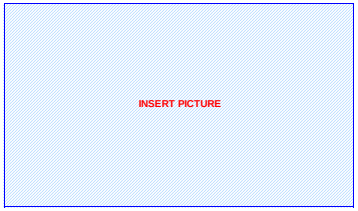
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 44 | | | | | 44 |
| B | 1 | 0 | 0 | | | | | 2 |
| C | 41 | 0 | 0 | | | | | 42 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 43 | 0 | 44 | | | | | 87 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 27 | | | | | 29 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 23 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.2 | 1.95 | 27.33 | | | | | 56.48 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Coronation Avenue




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 132 | 357 | | | | | 488 |
| B | 383 | 0 | 27 | | | | | 410 |
| C | 496 | 233 | 0 | | | | | 729 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 878 | 365 | 384 | | | | | 1627 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 269 | | | | | 269 |
| B | 244 | 0 | 15 | | | | | 259 |
| C | 442 | 152 | 0 | | | | | 594 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 686 | 152 | 284 | | | | | 1122 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 67 | | | | | 67 |
| B | 45 | 0 | 9 | | | | | 54 |
| C | 30 | 69 | 0 | | | | | 99 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 69 | 76 | | | | | 220 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 102 | 17 | | | | | 120 |
| B | 75 | 0 | 3 | | | | | 77 |
| C | 24 | 12 | 0 | | | | | 36 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 98 | 114 | 20 | | | | | 233 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 4 | | | | | 33 |
| B | 19 | 0 | 0 | | | | | 19 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 29 | 4 | | | | | 52 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 117 | 285 | | | | | 403 |
| B | 260 | 0 | 18 | | | | | 278 |
| C | 463 | 102 | 0 | | | | | 565 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 723 | 219 | 304 | | | | | 1246 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 196 | | | | | 196 |
| B | 127 | 0 | 5 | | | | | 133 |
| C | 323 | 67 | 0 | | | | | 390 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 450 | 67 | 201 | | | | | 719 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 49 | | | | | 49 |
| B | 3 | 0 | 2 | | | | | 5 |
| C | 97 | 27 | 0 | | | | | 124 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 99 | 27 | 52 | | | | | 178 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 94 | 34 | | | | | 128 |
| B | 110 | 0 | 11 | | | | | 121 |
| C | 42 | 8 | 0 | | | | | 49 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 151 | 101 | 45 | | | | | 298 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.87 | 23.81 | 5.95 | | | | | 51.63 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 362 | | | | | 422 |
| B | 330 | 0 | 23 | | | | | 353 |
| C | 554 | 120 | 0 | | | | | 674 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 884 | 180 | 385 | | | | | 1449 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 307 | | | | | 307 |
| B | 257 | 0 | 7 | | | | | 265 |
| C | 477 | 100 | 0 | | | | | 577 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 734 | 100 | 315 | | | | | 1149 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 31 | | | | | 31 |
| B | 5 | 0 | 15 | | | | | 20 |
| C | 48 | 18 | 0 | | | | | 66 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 18 | 46 | | | | | 117 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 19 | | | | | 56 |
| B | 41 | 0 | 1 | | | | | 42 |
| C | 27 | 1 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 38 | 20 | | | | | 127 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 4 | | | | | 27 |
| B | 27 | 0 | 0 | | | | | 27 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.87 | 23.4 | 3.9 | | | | | 56.17 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / Hollins Lane

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 386 | 497 | | | | | 882 |
| B | 275 | 0 | 48 | | | | | 323 |
| C | 816 | 51 | 0 | | | | | 867 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1092 | 437 | 545 | | | | | 2073 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 336 | 412 | | | | | 748 |
| B | 205 | 0 | 38 | | | | | 243 |
| C | 668 | 38 | 0 | | | | | 707 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 873 | 374 | 449 | | | | | 1697 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 57 | | | | | 97 |
| B | 45 | 0 | 4 | | | | | 49 |
| C | 88 | 5 | 0 | | | | | 93 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 133 | 45 | 61 | | | | | 239 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 28 | | | | | 34 |
| B | 21 | 0 | 0 | | | | | 21 |
| C | 60 | 2 | 0 | | | | | 62 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 7 | 29 | | | | | 117 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 244 | 524 | | | | | 767 |
| B | 203 | 0 | 42 | | | | | 245 |
| C | 642 | 49 | 0 | | | | | 691 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 845 | 292 | 566 | | | | | 1703 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 205 | 388 | | | | | 593 |
| B | 153 | 0 | 28 | | | | | 181 |
| C | 475 | 33 | 0 | | | | | 509 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 629 | 238 | 416 | | | | | 1283 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 79 | | | | | 109 |
| B | 32 | 0 | 8 | | | | | 40 |
| C | 97 | 9 | 0 | | | | | 106 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 130 | 39 | 87 | | | | | 255 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 57 | | | | | 64 |
| B | 13 | 0 | 0 | | | | | 14 |
| C | 69 | 0 | 0 | | | | | 70 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 82 | 8 | 57 | | | | | 147 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 3.99 | 7.96 | 5.99 | | | | | 17.94 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 390 | 571 | | | | | 961 |
| B | 185 | 0 | 40 | | | | | 224 |
| C | 669 | 54 | 0 | | | | | 723 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 854 | 444 | 611 | | | | | 1909 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 343 | 501 | | | | | 844 |
| B | 156 | 0 | 29 | | | | | 185 |
| C | 600 | 40 | 0 | | | | | 640 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 756 | 383 | 530 | | | | | 1669 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 50 | | | | | 89 |
| B | 20 | 0 | 5 | | | | | 24 |
| C | 46 | 7 | 0 | | | | | 53 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 65 | 47 | 55 | | | | | 167 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 20 | | | | | 24 |
| B | 7 | 0 | 0 | | | | | 7 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 4 | 20 | | | | | 55 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 9.82 | 5.93 | | | | | 17.73 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / A56 Manchester Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 677 | 631 | | | | | 1309 |
| B | 475 | 0 | 70 | | | | | 545 |
| C | 943 | 190 | 0 | | | | | 1133 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1418 | 867 | 701 | | | | | 2986 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 560 | 504 | | | | | 1064 |
| B | 397 | 0 | 53 | | | | | 449 |
| C | 822 | 146 | 0 | | | | | 968 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1219 | 707 | 557 | | | | | 2482 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 66 | 72 | | | | | 137 |
| B | 52 | 0 | 8 | | | | | 61 |
| C | 73 | 27 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 126 | 93 | 80 | | | | | 299 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 36 | | | | | 81 |
| B | 20 | 0 | 9 | | | | | 29 |
| C | 28 | 17 | 0 | | | | | 45 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 48 | 62 | 45 | | | | | 155 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 6 | 20 | | | | | 51 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 458 | 684 | | | | | 1141 |
| B | 415 | 0 | 151 | | | | | 566 |
| C | 745 | 233 | 0 | | | | | 979 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1160 | 691 | 834 | | | | | 2686 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 342 | 541 | | | | | 883 |
| B | 320 | 0 | 96 | | | | | 416 |
| C | 584 | 166 | 0 | | | | | 751 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 904 | 509 | 637 | | | | | 2050 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 70 | 85 | | | | | 155 |
| B | 56 | 0 | 30 | | | | | 87 |
| C | 103 | 36 | 0 | | | | | 139 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 159 | 106 | 115 | | | | | 381 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 38 | | | | | 77 |
| B | 33 | 0 | 24 | | | | | 57 |
| C | 36 | 31 | 0 | | | | | 67 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 69 | 70 | 63 | | | | | 202 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.88 | 5.98 | 19.93 | | | | | 53.79 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 583 | 730 | | | | | 1312 |
| B | 504 | 0 | 106 | | | | | 611 |
| C | 887 | 141 | 0 | | | | | 1028 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1392 | 723 | 836 | | | | | 2951 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 527 | 637 | | | | | 1163 |
| B | 435 | 0 | 95 | | | | | 530 |
| C | 781 | 114 | 0 | | | | | 895 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1215 | 640 | 732 | | | | | 2588 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 63 | | | | | 99 |
| B | 46 | 0 | 9 | | | | | 55 |
| C | 74 | 18 | 0 | | | | | 92 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 120 | 53 | 72 | | | | | 245 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 10 | | | | | 24 |
| B | 18 | 0 | 2 | | | | | 20 |
| C | 13 | 9 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 24 | 12 | | | | | 66 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 25.37 | 5.96 | 19.86 | | | | | 51.19 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 26859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1105 | 3542 | 934 | | | | 5581 |
| B | 618 | 0 | 1080 | 4784 | | | | 6482 |
| C | 3380 | 456 | 0 | 1250 | | | | 5086 |
| D | 1248 | 5244 | 2327 | 0 | | | | 8819 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5246 | 6805 | 6949 | 6968 | | | | 25968 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 890 | 2373 | 545 | | | | 3808 |
| B | 567 | 0 | 758 | 2396 | | | | 3721 |
| C | 2334 | 319 | 0 | 682 | | | | 3335 |
| D | 651 | 2532 | 1352 | 0 | | | | 4535 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3552 | 3741 | 4483 | 3623 | | | | 15399 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 172 | 722 | 143 | | | | 1037 |
| B | 42 | 0 | 118 | 874 | | | | 1034 |
| C | 516 | 71 | 0 | 397 | | | | 984 |
| D | 348 | 983 | 556 | 0 | | | | 1887 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 906 | 1226 | 1396 | 1414 | | | | 4942 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 447 | 246 | | | | 736 |
| B | 9 | 0 | 204 | 1514 | | | | 1727 |
| C | 530 | 66 | 0 | 171 | | | | 767 |
| D | 249 | 1729 | 419 | 0 | | | | 2397 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 788 | 1838 | 1070 | 1931 | | | | 5627 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 881 | 1973 | 989 | | | | 3843 |
| B | 498 | 0 | 645 | 5324 | | | | 6467 |
| C | 2737 | 333 | 0 | 875 | | | | 3945 |
| D | 1172 | 5283 | 2116 | 0 | | | | 8571 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4407 | 6497 | 4734 | 7188 | | | | 22826 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 695 | 1218 | 405 | | | | 2318 |
| B | 485 | 0 | 439 | 2581 | | | | 3505 |
| C | 1791 | 189 | 0 | 391 | | | | 2371 |
| D | 419 | 2403 | 1103 | 0 | | | | 3925 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2695 | 3287 | 2760 | 3377 | | | | 12119 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 123 | 434 | 223 | | | | 780 |
| B | 13 | 0 | 104 | 1106 | | | | 1223 |
| C | 511 | 59 | 0 | 253 | | | | 823 |
| D | 285 | 1000 | 485 | 0 | | | | 1770 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 809 | 1182 | 1023 | 1582 | | | | 4596 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 321 | 361 | | | | 745 |
| B | 0 | 0 | 102 | 1637 | | | | 1739 |
| C | 435 | 85 | 0 | 231 | | | | 751 |
| D | 468 | 1880 | 528 | 0 | | | | 2876 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 903 | 2028 | 951 | 2229 | | | | 6111 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 944 | 2769 | 980 | | | | 4693 |
| B | 372 | 0 | 1027 | 5516 | | | | 6915 |
| C | 3909 | 405 | 0 | 906 | | | | 5220 |
| D | 1427 | 5189 | 2442 | 0 | | | | 9058 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5708 | 6538 | 6238 | 7402 | | | | 25886 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 858 | 2319 | 628 | | | | 3805 |
| B | 354 | 0 | 956 | 3633 | | | | 4943 |
| C | 3158 | 302 | 0 | 613 | | | | 4073 |
| D | 1006 | 3478 | 1728 | 0 | | | | 6212 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4518 | 4638 | 5003 | 4874 | | | | 19033 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 83 | 354 | 172 | | | | 609 |
| B | 18 | 0 | 48 | 776 | | | | 842 |
| C | 500 | 74 | 0 | 250 | | | | 824 |
| D | 248 | 720 | 439 | 0 | | | | 1407 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 766 | 877 | 841 | 1198 | | | | 3682 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 96 | 180 | | | | 279 |
| B | 0 | 0 | 23 | 1107 | | | | 1130 |
| C | 251 | 29 | 0 | 43 | | | | 323 |
| D | 173 | 991 | 275 | 0 | | | | 1439 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 424 | 1023 | 394 | 1330 | | | | 3171 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | JTC 20 - A627 SB |
| B | 2727 | 2724 | 2723 | 2725 | JTC 20 - M62 WB |
| C | 2768 | 4932 | 4929 | 2767 | JTC 20 - A627 NB |
| D | 2719 | 2721 | 2722 | 2720 | JTC 20 - M62 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 257 | 972 | 1011 | | | | 2240 |
| B | 208 | 0 | 1100 | 5041 | | | | 6349 |
| C | 1008 | 840 | 0 | 1244 | | | | 3092 |
| D | 961 | 5516 | 1058 | 0 | | | | 7535 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2177 | 6613 | 3130 | 7296 | | | | 19216 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 188 | 750 | 617 | | | | 1555 |
| B | 177 | 0 | 783 | 2595 | | | | 3555 |
| C | 825 | 461 | 0 | 844 | | | | 2130 |
| D | 565 | 2807 | 692 | 0 | | | | 4064 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1567 | 3456 | 2225 | 4056 | | | | 11304 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 99 | 147 | | | | 273 |
| B | 25 | 0 | 154 | 800 | | | | 979 |
| C | 113 | 114 | 0 | 192 | | | | 419 |
| D | 136 | 986 | 195 | 0 | | | | 1317 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 274 | 1127 | 448 | 1139 | | | | 2988 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 123 | 247 | | | | 412 |
| B | 6 | 0 | 163 | 1646 | | | | 1815 |
| C | 70 | 265 | 0 | 208 | | | | 543 |
| D | 260 | 1723 | 171 | 0 | | | | 2154 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 336 | 2030 | 457 | 2101 | | | | 4924 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 132 | 797 | 781 | | | | 1710 |
| B | 252 | 0 | 964 | 4877 | | | | 6093 |
| C | 312 | 686 | 0 | 860 | | | | 1858 |
| D | 817 | 5635 | 756 | 0 | | | | 7208 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1381 | 6453 | 2517 | 6518 | | | | 16889 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 562 | 415 | | | | 1053 |
| B | 92 | 0 | 449 | 2507 | | | | 3048 |
| C | 136 | 326 | 0 | 577 | | | | 1039 |
| D | 540 | 2639 | 528 | 0 | | | | 3707 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 768 | 3041 | 1539 | 3499 | | | | 8847 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 117 | 148 | | | | 283 |
| B | 22 | 0 | 176 | 836 | | | | 1034 |
| C | 105 | 113 | 0 | 201 | | | | 419 |
| D | 147 | 985 | 134 | 0 | | | | 1266 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 274 | 1116 | 427 | 1185 | | | | 3002 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 118 | 218 | | | | 374 |
| B | 138 | 0 | 339 | 1534 | | | | 2011 |
| C | 71 | 247 | 0 | 82 | | | | 400 |
| D | 130 | 2011 | 94 | 0 | | | | 2235 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 339 | 2296 | 551 | 1834 | | | | 5020 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 244 | 908 | 1125 | | | | 2277 |
| B | 185 | 0 | 1098 | 4533 | | | | 5816 |
| C | 963 | 927 | 0 | 1263 | | | | 3153 |
| D | 648 | 5527 | 1037 | 0 | | | | 7212 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1796 | 6698 | 3043 | 6921 | | | | 18458 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 188 | 696 | 766 | | | | 1650 |
| B | 132 | 0 | 838 | 2964 | | | | 3934 |
| C | 833 | 692 | 0 | 1019 | | | | 2544 |
| D | 510 | 3869 | 896 | 0 | | | | 5275 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1475 | 4749 | 2430 | 4749 | | | | 13403 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 115 | 136 | | | | 277 |
| B | 12 | 0 | 103 | 574 | | | | 689 |
| C | 101 | 134 | 0 | 151 | | | | 386 |
| D | 93 | 708 | 98 | 0 | | | | 899 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 206 | 868 | 316 | 861 | | | | 2251 |

MODELLED — HGV

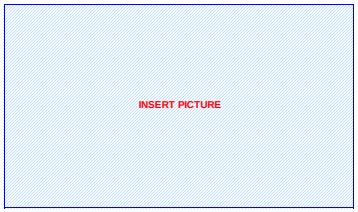
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 97 | 223 | | | | 350 |
| B | 41 | 0 | 157 | 995 | | | | 1193 |
| C | 29 | 101 | 0 | 93 | | | | 223 |
| D | 45 | 950 | 43 | 0 | | | | 1038 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 115 | 1081 | 297 | 1311 | | | | 2804 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J19




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | *JTC 21 - M60 SB* |
| B | 14141 | 5666 | 5093 | 14141 | *JTC 21 - A576 WB* |
| C | 5668 | 5665 | 5667 | 5669 | *JTC 21 - M60 NB* |
| D | 3414 | 5096 | 5095 | 3414 | *JTC 21 - A576 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 709 | 0 | 1016 | | | | 1725 |
| B | 491 | 0 | 303 | 468 | | | | 1262 |
| C | 0 | 280 | 24 | 524 | | | | 828 |
| D | 585 | 247 | 795 | 0 | | | | 1627 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1076 | 1236 | 1122 | 2008 | | | | 5442 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 536 | 0 | 847 | | | | 1383 |
| B | 380 | 0 | 235 | 415 | | | | 1030 |
| C | 0 | 192 | 22 | 434 | | | | 648 |
| D | 480 | 221 | 687 | 0 | | | | 1388 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 860 | 949 | 944 | 1696 | | | | 4449 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 110 | 0 | 80 | | | | 190 |
| B | 36 | 0 | 56 | 51 | | | | 143 |
| C | 0 | 44 | 2 | 70 | | | | 116 |
| D | 60 | 20 | 89 | 0 | | | | 169 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 174 | 147 | 201 | | | | 618 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 0 | 89 | | | | 152 |
| B | 75 | 0 | 12 | 2 | | | | 89 |
| C | 0 | 44 | 0 | 20 | | | | 64 |
| D | 45 | 6 | 19 | 0 | | | | 70 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 120 | 113 | 31 | 111 | | | | 375 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 465 | 0 | 696 | | | | 1161 |
| B | 290 | 0 | 285 | 354 | | | | 929 |
| C | 0 | 369 | 37 | 542 | | | | 948 |
| D | 570 | 503 | 661 | 0 | | | | 1734 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 860 | 1337 | 983 | 1592 | | | | 4772 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 324 | 0 | 543 | | | | 867 |
| B | 224 | 0 | 183 | 315 | | | | 722 |
| C | 0 | 215 | 37 | 432 | | | | 684 |
| D | 385 | 441 | 514 | 0 | | | | 1340 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 609 | 980 | 734 | 1290 | | | | 3613 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 88 | 0 | 97 | | | | 185 |
| B | 40 | 0 | 44 | 34 | | | | 118 |
| C | 0 | 82 | 0 | 74 | | | | 156 |
| D | 107 | 52 | 105 | 0 | | | | 264 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 147 | 222 | 149 | 205 | | | | 723 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 0 | 56 | | | | 109 |
| B | 26 | 0 | 58 | 5 | | | | 89 |
| C | 0 | 72 | 0 | 36 | | | | 108 |
| D | 78 | 10 | 42 | 0 | | | | 130 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 135 | 100 | 97 | | | | 436 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 553 | 0 | 1243 | | | | 1796 |
| B | 173 | 0 | 151 | 446 | | | | 770 |
| C | 5 | 409 | 3 | 555 | | | | 972 |
| D | 883 | 868 | 789 | 0 | | | | 2540 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1061 | 1830 | 943 | 2244 | | | | 6078 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 459 | 0 | 1165 | | | | 1624 |
| B | 149 | 0 | 131 | 406 | | | | 686 |
| C | 4 | 338 | 3 | 495 | | | | 840 |
| D | 768 | 806 | 716 | 0 | | | | 2290 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 921 | 1603 | 850 | 2066 | | | | 5440 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 69 | 0 | 59 | | | | 128 |
| B | 18 | 0 | 17 | 37 | | | | 72 |
| C | 1 | 51 | 0 | 60 | | | | 112 |
| D | 98 | 61 | 66 | 0 | | | | 225 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 117 | 181 | 83 | 156 | | | | 537 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 0 | 19 | | | | 44 |
| B | 6 | 0 | 3 | 3 | | | | 12 |
| C | 0 | 20 | 0 | 0 | | | | 20 |
| D | 17 | 1 | 7 | 0 | | | | 25 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 23 | 46 | 10 | 22 | | | | 101 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A576 Middleton Road / A6045 Heywood Old Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 3 | 557 | | | | 594 |
| B | 80 | 0 | 4 | 707 | | | | 791 |
| C | 4 | 4 | 0 | 17 | | | | 25 |
| D | 438 | 803 | 11 | 0 | | | | 1251 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 523 | 841 | 17 | 1281 | | | | 2662 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 3 | 476 | | | | 508 |
| B | 56 | 0 | 1 | 542 | | | | 600 |
| C | 3 | 3 | 0 | 12 | | | | 18 |
| D | 355 | 586 | 8 | 0 | | | | 948 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 414 | 618 | 12 | 1031 | | | | 2075 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 0 | 61 | | | | 66 |
| B | 13 | 0 | 1 | 80 | | | | 93 |
| C | 1 | 1 | 0 | 3 | | | | 5 |
| D | 51 | 122 | 1 | 0 | | | | 174 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 64 | 128 | 2 | 144 | | | | 338 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 20 | | | | 20 |
| B | 11 | 0 | 2 | 67 | | | | 80 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 32 | 80 | 2 | 0 | | | | 113 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 44 | 80 | 3 | 88 | | | | 216 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 33 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 113 | 6 | 336 | | | | 455 |
| B | 140 | 0 | 6 | 601 | | | | 747 |
| C | 6 | 5 | 0 | 9 | | | | 20 |
| D | 576 | 768 | 10 | 0 | | | | 1353 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 721 | 886 | 22 | 946 | | | | 2575 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 91 | 4 | 268 | | | | 363 |
| B | 95 | 0 | 4 | 447 | | | | 546 |
| C | 4 | 3 | 0 | 7 | | | | 14 |
| D | 428 | 543 | 8 | 0 | | | | 979 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 526 | 637 | 15 | 722 | | | | 1901 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 1 | 38 | | | | 56 |
| B | 19 | 0 | 1 | 78 | | | | 98 |
| C | 1 | 1 | 0 | 1 | | | | 4 |
| D | 91 | 129 | 1 | 0 | | | | 222 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 112 | 146 | 4 | 117 | | | | 379 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 1 | 30 | | | | 37 |
| B | 27 | 0 | 1 | 58 | | | | 85 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 56 | 78 | 1 | 0 | | | | 134 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 83 | 84 | 2 | 89 | | | | 259 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.81 | 0 | 17.94 | | | | 35.75 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 107 | 4 | 376 | | | | 486 |
| B | 152 | 0 | 4 | 402 | | | | 558 |
| C | 6 | 6 | 0 | 6 | | | | 18 |
| D | 910 | 926 | 12 | 0 | | | | 1848 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1069 | 1038 | 19 | 783 | | | | 2909 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 95 | 3 | 339 | | | | 437 |
| B | 137 | 0 | 3 | 342 | | | | 482 |
| C | 6 | 4 | 0 | 4 | | | | 14 |
| D | 812 | 782 | 9 | 0 | | | | 1603 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 954 | 881 | 16 | 685 | | | | 2537 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | 31 | | | | 41 |
| B | 14 | 0 | 0 | 39 | | | | 54 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 80 | 100 | 1 | 0 | | | | 181 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 110 | 2 | 71 | | | | 278 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | 6 | | | | 8 |
| B | 1 | 0 | 0 | 5 | | | | 6 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 18 | 27 | 1 | 0 | | | | 46 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 20 | 30 | 1 | 12 | | | | 62 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 17 | 0 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.12 | 0 | 15.64 | | | | 32.76 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 93 | 1026 | | | | | 1118 |
| B | 0 | 0 | 1092 | | | | | 1092 |
| C | 1907 | 708 | 0 | | | | | 2615 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1907 | 800 | 2118 | | | | | 4825 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 779 | | | | | 849 |
| B | 0 | 0 | 769 | | | | | 769 |
| C | 1467 | 536 | 0 | | | | | 2003 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1467 | 607 | 1548 | | | | | 3622 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 105 | | | | | 119 |
| B | 0 | 0 | 228 | | | | | 228 |
| C | 178 | 113 | 0 | | | | | 290 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 178 | 126 | 334 | | | | | 637 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 112 | | | | | 121 |
| B | 0 | 0 | 95 | | | | | 95 |
| C | 232 | 59 | 0 | | | | | 291 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 232 | 68 | 207 | | | | | 507 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 29 | | | | | 29 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 0 | 29 | | | | | 59 |

### Model_2_Heywood_DS3b_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 1008 | | | | | 1037 |
| B | 0 | 0 | 976 | | | | | 976 |
| C | 1603 | 606 | 0 | | | | | 2209 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1603 | 635 | 1984 | | | | | 4222 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 739 | | | | | 760 |
| B | 0 | 0 | 650 | | | | | 650 |
| C | 1155 | 400 | 0 | | | | | 1555 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1155 | 420 | 1389 | | | | | 2964 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 117 | | | | | 122 |
| B | 0 | 0 | 200 | | | | | 200 |
| C | 222 | 141 | 0 | | | | | 363 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 222 | 146 | 317 | | | | | 685 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 122 | | | | | 126 |
| B | 0 | 0 | 126 | | | | | 126 |
| C | 194 | 65 | 0 | | | | | 259 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 194 | 69 | 248 | | | | | 511 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.58 | 0 | 29.65 | | | | | 61.23 |

### Model_3_Heywood_DS3b_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 1116 | | | | | 1121 |
| B | 0 | 0 | 1083 | | | | | 1083 |
| C | 1813 | 732 | 0 | | | | | 2545 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1813 | 737 | 2199 | | | | | 4749 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 1006 | | | | | 1008 |
| B | 0 | 0 | 964 | | | | | 964 |
| C | 1581 | 609 | 0 | | | | | 2190 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1581 | 611 | 1970 | | | | | 4163 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 60 | | | | | 62 |
| B | 0 | 0 | 93 | | | | | 93 |
| C | 147 | 85 | 0 | | | | | 232 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 147 | 86 | 154 | | | | | 387 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 22 | | | | | 24 |
| B | 0 | 0 | 25 | | | | | 25 |
| C | 56 | 38 | 0 | | | | | 94 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 39 | 48 | | | | | 143 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 28 | 0 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.49 | 0 | 27.18 | | | | | 55.67 |

## Run 17 - 2039 Do Something 3 - S1 – Whittle Lane - Origin-Destination Matrices

- Policy Off (Non Vision-Led)
- including all of the JPA1.1 Allocation Site & all of the JPA1.2 Allocation Site
- excluding the M62 Access solution
- including Common Highway Mitigation Package and J18 DCO works
- Whittle Lane Closed – Public Transport Only Link and South Heywood Link Closed

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60057 | 60011 | 4924 | 2718 | C1-M62 WiC1-M62 West |
| E | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizabe |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 252 | 271 | 520 | 7 | | | 1050 |
| B | 226 | 0 | 143 | 0 | 691 | | | 1060 |
| C | 285 | 249 | 0 | 301 | 172 | | | 1007 |
| D | 189 | 0 | 132 | 2 | 500 | | | 823 |
| E | 6 | 547 | 130 | 229 | 0 | | | 912 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 706 | 1048 | 676 | 1052 | 1370 | | | 4852 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 166 | 195 | 352 | 6 | | | 719 |
| B | 134 | 0 | 80 | 0 | 350 | | | 564 |
| C | 224 | 180 | 0 | 245 | 107 | | | 756 |
| D | 89 | 0 | 96 | 0 | 282 | | | 467 |
| E | 5 | 227 | 60 | 160 | 0 | | | 452 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 452 | 573 | 431 | 757 | 745 | | | 2958 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 65 | 69 | 1 | | | 198 |
| B | 40 | 0 | 58 | 0 | 44 | | | 142 |
| C | 55 | 31 | 0 | 49 | 35 | | | 170 |
| D | 61 | 0 | 15 | 1 | 48 | | | 125 |
| E | 1 | 49 | 18 | 28 | 0 | | | 96 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 157 | 143 | 156 | 147 | 128 | | | 731 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 11 | 99 | 0 | | | 133 |
| B | 52 | 0 | 5 | 0 | 297 | | | 354 |
| C | 6 | 38 | 0 | 7 | 30 | | | 81 |
| D | 39 | 0 | 21 | 1 | 170 | | | 231 |
| E | 0 | 271 | 52 | 41 | 0 | | | 364 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 97 | 332 | 89 | 148 | 497 | | | 1163 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 260 | 264 | 283 | 2 | | | 809 |
| B | 189 | 0 | 126 | 0 | 472 | | | 787 |
| C | 210 | 240 | 0 | 299 | 168 | | | 917 |
| D | 233 | 0 | 115 | 8 | 335 | | | 691 |
| E | 12 | 489 | 147 | 96 | 0 | | | 744 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 644 | 989 | 652 | 686 | 977 | | | 3948 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 170 | 215 | 149 | 1 | | | 535 |
| B | 108 | 0 | 91 | 0 | 189 | | | 388 |
| C | 159 | 138 | 0 | 177 | 84 | | | 558 |
| D | 100 | 0 | 72 | 0 | 80 | | | 252 |
| E | 7 | 163 | 72 | 27 | 0 | | | 269 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 374 | 471 | 450 | 353 | 354 | | | 2002 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 57 | 35 | 61 | 1 | | | 154 |
| B | 43 | 0 | 25 | 0 | 55 | | | 123 |
| C | 35 | 37 | 0 | 74 | 40 | | | 186 |
| D | 60 | 0 | 37 | 1 | 48 | | | 146 |
| E | 4 | 66 | 35 | 12 | 0 | | | 117 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 142 | 160 | 132 | 148 | 144 | | | 726 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 14 | 73 | 0 | | | 120 |
| B | 38 | 0 | 10 | 0 | 228 | | | 276 |
| C | 16 | 65 | 0 | 48 | 44 | | | 173 |
| D | 73 | 0 | 6 | 7 | 207 | | | 293 |
| E | 1 | 260 | 40 | 57 | 0 | | | 358 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 128 | 358 | 70 | 185 | 479 | | | 1220 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 236 | 296 | 319 | 4 | | | 855 |
| B | 241 | 0 | 155 | 0 | 477 | | | 873 |
| C | 239 | 244 | 0 | 354 | 95 | | | 932 |
| D | 293 | 0 | 213 | 0 | 416 | | | 922 |
| E | 13 | 624 | 140 | 46 | 0 | | | 823 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 786 | 1104 | 804 | 719 | 992 | | | 4405 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 182 | 262 | 272 | 2 | | | 718 |
| B | 180 | 0 | 120 | 0 | 256 | | | 556 |
| C | 217 | 197 | 0 | 279 | 72 | | | 765 |
| D | 224 | 0 | 172 | 0 | 300 | | | 696 |
| E | 12 | 469 | 111 | 33 | 0 | | | 625 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 633 | 848 | 665 | 584 | 630 | | | 3360 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 29 | 30 | 2 | | | 100 |
| B | 36 | 0 | 27 | 0 | 34 | | | 97 |
| C | 20 | 34 | 0 | 47 | 10 | | | 111 |
| D | 40 | 0 | 35 | 0 | 29 | | | 104 |
| E | 1 | 33 | 13 | 2 | 0 | | | 49 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 97 | 106 | 104 | 79 | 75 | | | 461 |

MODELLED — HGV

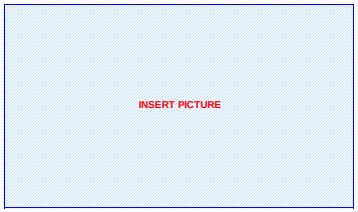
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 5 | 17 | 0 | | | 37 |
| B | 25 | 0 | 8 | 0 | 187 | | | 220 |
| C | 2 | 13 | 0 | 28 | 13 | | | 56 |
| D | 29 | 0 | 6 | 0 | 87 | | | 122 |
| E | 0 | 122 | 16 | 11 | 0 | | | 149 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 150 | 35 | 56 | 287 | | | 584 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | 045 Manchester Road |
| B | 60003 | 60010 | 60010 | 60003 | d Queen Elizabeth Wa |
| C | 2814 | 60010 | 60010 | 2814 | 045 Manchester Road |
| D | 60008 | 60010 | 60010 | 60008 | d Queen Elizabeth Wa |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 185 | 221 | 46 | | | | 451 |
| B | 159 | 0 | 37 | 1176 | | | | 1372 |
| C | 433 | 176 | 0 | 82 | | | | 691 |
| D | 86 | 553 | 42 | 0 | | | | 681 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 678 | 914 | 300 | 1303 | | | | 3195 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 142 | 189 | 35 | | | | 366 |
| B | 136 | 0 | 30 | 580 | | | | 746 |
| C | 385 | 158 | 0 | 68 | | | | 611 |
| D | 62 | 154 | 37 | 0 | | | | 252 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 583 | 454 | 256 | 683 | | | | 1976 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 18 | 10 | | | | 59 |
| B | 13 | 0 | 5 | 110 | | | | 128 |
| C | 32 | 13 | 0 | 7 | | | | 52 |
| D | 16 | 53 | 4 | 0 | | | | 73 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 60 | 96 | 27 | 128 | | | | 312 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 12 | 0 | | | | 24 |
| B | 10 | 0 | 2 | 486 | | | | 498 |
| C | 16 | 5 | 0 | 6 | | | | 28 |
| D | 8 | 347 | 1 | 0 | | | | 356 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 35 | 364 | 15 | 492 | | | | 906 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 198 | 74 | | | | 312 |
| B | 99 | 0 | 88 | 789 | | | | 976 |
| C | 373 | 105 | 0 | 122 | | | | 599 |
| D | 65 | 599 | 80 | 0 | | | | 744 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 537 | 744 | 366 | 985 | | | | 2632 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 151 | 51 | | | | 226 |
| B | 73 | 0 | 71 | 211 | | | | 354 |
| C | 284 | 64 | 0 | 62 | | | | 410 |
| D | 41 | 182 | 59 | 0 | | | | 282 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 397 | 270 | 280 | 324 | | | | 1272 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 29 | 21 | | | | 56 |
| B | 14 | 0 | 13 | 116 | | | | 143 |
| C | 47 | 14 | 0 | 22 | | | | 82 |
| D | 21 | 95 | 11 | 0 | | | | 127 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 116 | 53 | 160 | | | | 409 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 16 | 1 | | | | 28 |
| B | 12 | 0 | 4 | 462 | | | | 479 |
| C | 40 | 27 | 0 | 38 | | | | 105 |
| D | 3 | 321 | 11 | 0 | | | | 335 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 358 | 31 | 501 | | | | 946 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 0 | 1.98 | 0 | | | | 3.96 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 295 | 59 | | | | 391 |
| B | 140 | 0 | 217 | 637 | | | | 993 |
| C | 475 | 160 | 0 | 105 | | | | 739 |
| D | 98 | 631 | 99 | 0 | | | | 828 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 712 | 827 | 611 | 801 | | | | 2950 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 265 | 41 | | | | 331 |
| B | 121 | 0 | 190 | 320 | | | | 631 |
| C | 413 | 140 | 0 | 81 | | | | 635 |
| D | 79 | 462 | 87 | 0 | | | | 629 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 614 | 627 | 543 | 442 | | | | 2225 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 22 | 17 | | | | 42 |
| B | 12 | 0 | 23 | 40 | | | | 75 |
| C | 43 | 18 | 0 | 16 | | | | 76 |
| D | 10 | 29 | 8 | 0 | | | | 48 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 65 | 50 | 53 | 72 | | | | 241 |

MODELLED — HGV

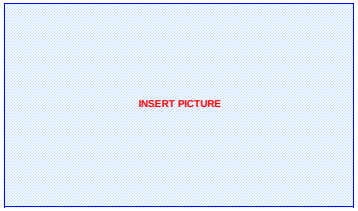
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 6 | 2 | | | | 16 |
| B | 6 | 0 | 4 | 277 | | | | 287 |
| C | 17 | 1 | 0 | 8 | | | | 26 |
| D | 8 | 140 | 3 | 0 | | | | 151 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 149 | 13 | 287 | | | | 480 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.93 | 0 | 1.95 | 0 | | | | 3.88 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Hill Top Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | rehills Rd EB |
| B | 60036 | 60031 | 60031 | 60036 | ill Top Road |
| C | 60230 | 7454 | 7454 | 60230 | rehills Rd SB |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 126 | 478 | 52 | | | | 656 |
| B | 91 | 0 | 19 | 2 | | | | 112 |
| C | 1111 | 66 | 0 | 156 | | | | 1333 |
| D | 33 | 0 | 69 | 0 | | | | 102 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1235 | 192 | 566 | 210 | | | | 2203 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 136 | 41 | | | | 239 |
| B | 11 | 0 | 2 | 0 | | | | 13 |
| C | 610 | 40 | 0 | 62 | | | | 712 |
| D | 14 | 0 | 4 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 635 | 102 | 142 | 103 | | | | 982 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 64 | 7 | | | | 81 |
| B | 8 | 0 | 1 | 1 | | | | 10 |
| C | 105 | 5 | 0 | 19 | | | | 129 |
| D | 15 | 0 | 2 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 128 | 15 | 67 | 27 | | | | 237 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 278 | 4 | | | | 336 |
| B | 72 | 0 | 16 | 1 | | | | 89 |
| C | 396 | 21 | 0 | 75 | | | | 492 |
| D | 4 | 0 | 63 | 0 | | | | 67 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 472 | 75 | 357 | 80 | | | | 984 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 593 | 27 | | | | 698 |
| B | 91 | 0 | 49 | 1 | | | | 141 |
| C | 809 | 48 | 0 | 113 | | | | 970 |
| D | 60 | 2 | 93 | 0 | | | | 155 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 960 | 128 | 735 | 141 | | | | 1964 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 244 | 21 | | | | 289 |
| B | 32 | 0 | 14 | 0 | | | | 46 |
| C | 283 | 8 | 0 | 20 | | | | 311 |
| D | 34 | 1 | 16 | 0 | | | | 51 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 349 | 33 | 274 | 41 | | | | 697 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 102 | 5 | | | | 119 |
| B | 16 | 0 | 9 | 1 | | | | 26 |
| C | 128 | 8 | 0 | 22 | | | | 158 |
| D | 15 | 1 | 15 | 0 | | | | 31 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 159 | 21 | 126 | 28 | | | | 334 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 247 | 1 | | | | 290 |
| B | 43 | 0 | 26 | 0 | | | | 69 |
| C | 398 | 32 | 0 | 71 | | | | 501 |
| D | 11 | 0 | 62 | 0 | | | | 73 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 452 | 74 | 335 | 72 | | | | 933 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 755 | 12 | | | | 818 |
| B | 97 | 0 | 51 | 0 | | | | 148 |
| C | 640 | 25 | 0 | 52 | | | | 717 |
| D | 147 | 0 | 54 | 0 | | | | 201 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 884 | 76 | 860 | 64 | | | | 1884 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 594 | 11 | | | | 625 |
| B | 69 | 0 | 31 | 0 | | | | 100 |
| C | 341 | 12 | 0 | 10 | | | | 363 |
| D | 112 | 0 | 33 | 0 | | | | 145 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 522 | 32 | 658 | 21 | | | | 1233 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 43 | 1 | | | | 46 |
| B | 4 | 0 | 8 | 0 | | | | 12 |
| C | 62 | 1 | 0 | 4 | | | | 67 |
| D | 12 | 0 | 1 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 78 | 3 | 52 | 5 | | | | 138 |

MODELLED — HGV

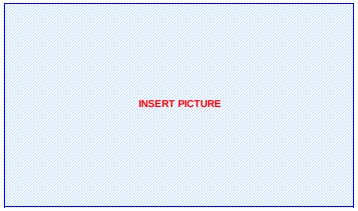
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 118 | 0 | | | | 147 |
| B | 24 | 0 | 12 | 0 | | | | 36 |
| C | 237 | 12 | 0 | 38 | | | | 287 |
| D | 23 | 0 | 20 | 0 | | | | 43 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 284 | 41 | 150 | 38 | | | | 513 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Pilsworth Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 196 | 461 | | | | | 657 |
| B | 509 | 0 | 195 | | | | | 704 |
| C | 1037 | 198 | 0 | | | | | 1235 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1546 | 394 | 656 | | | | | 2596 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 142 | 102 | | | | | 243 |
| B | 311 | 0 | 138 | | | | | 448 |
| C | 509 | 127 | 0 | | | | | 636 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 820 | 268 | 239 | | | | | 1327 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 48 | | | | | 71 |
| B | 59 | 0 | 32 | | | | | 91 |
| C | 96 | 31 | 0 | | | | | 127 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 155 | 54 | 80 | | | | | 290 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 311 | | | | | 342 |
| B | 139 | 0 | 26 | | | | | 165 |
| C | 432 | 40 | 0 | | | | | 472 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 571 | 71 | 336 | | | | | 979 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 285 | 560 | | | | | 845 |
| B | 327 | 0 | 138 | | | | | 465 |
| C | 778 | 181 | 0 | | | | | 958 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1104 | 466 | 698 | | | | | 2268 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 144 | 200 | | | | | 344 |
| B | 182 | 0 | 88 | | | | | 270 |
| C | 237 | 110 | 0 | | | | | 347 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 419 | 254 | 289 | | | | | 962 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 94 | | | | | 131 |
| B | 48 | 0 | 25 | | | | | 73 |
| C | 125 | 34 | 0 | | | | | 159 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 173 | 70 | 119 | | | | | 362 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 105 | 265 | | | | | 370 |
| B | 97 | 0 | 25 | | | | | 122 |
| C | 416 | 37 | 0 | | | | | 453 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 513 | 141 | 290 | | | | | 944 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 339 | 666 | | | | | 1005 |
| B | 271 | 0 | 154 | | | | | 424 |
| C | 591 | 293 | 0 | | | | | 884 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 862 | 632 | 820 | | | | | 2314 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 266 | 501 | | | | | 767 |
| B | 207 | 0 | 125 | | | | | 331 |
| C | 273 | 250 | 0 | | | | | 523 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 480 | 516 | 626 | | | | | 1621 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 28 | | | | | 51 |
| B | 13 | 0 | 18 | | | | | 31 |
| C | 45 | 33 | 0 | | | | | 77 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 58 | 56 | 46 | | | | | 160 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 137 | | | | | 187 |
| B | 51 | 0 | 11 | | | | | 62 |
| C | 273 | 10 | 0 | | | | | 284 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 325 | 60 | 148 | | | | | 533 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / A58 Bury St

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 465 | 134 | | | | | 599 |
| B | 580 | 0 | 565 | | | | | 1145 |
| C | 316 | 308 | 0 | | | | | 624 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 896 | 773 | 700 | | | | | 2369 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 256 | 111 | | | | | 367 |
| B | 373 | 0 | 332 | | | | | 705 |
| C | 262 | 259 | 0 | | | | | 522 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 635 | 515 | 442 | | | | | 1593 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 85 | 16 | | | | | 101 |
| B | 116 | 0 | 57 | | | | | 173 |
| C | 39 | 25 | 0 | | | | | 64 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 155 | 110 | 73 | | | | | 338 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 114 | 8 | | | | | 122 |
| B | 81 | 0 | 157 | | | | | 239 |
| C | 14 | 6 | 0 | | | | | 21 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 120 | 165 | | | | | 381 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 19 | | | | | 29 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 27 | 19 | | | | | 56 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 547 | 161 | | | | | 708 |
| B | 477 | 0 | 357 | | | | | 833 |
| C | 160 | 328 | 0 | | | | | 488 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 637 | 874 | 518 | | | | | 2029 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 360 | 129 | | | | | 489 |
| B | 321 | 0 | 220 | | | | | 541 |
| C | 129 | 174 | 0 | | | | | 303 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 450 | 534 | 349 | | | | | 1332 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 101 | 21 | | | | | 122 |
| B | 87 | 0 | 45 | | | | | 131 |
| C | 19 | 28 | 0 | | | | | 48 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 106 | 130 | 65 | | | | | 301 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 12 | | | | | 87 |
| B | 59 | 0 | 72 | | | | | 132 |
| C | 12 | 108 | 0 | | | | | 121 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 183 | 84 | | | | | 339 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 29 |
| C | 0 | 17 | 0 | | | | | 17 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.83 | 27.29 | 19.66 | | | | | 56.78 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 534 | 133 | | | | | 667 |
| B | 556 | 0 | 348 | | | | | 905 |
| C | 204 | 320 | 0 | | | | | 524 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 760 | 854 | 481 | | | | | 2095 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 477 | 117 | | | | | 594 |
| B | 477 | 0 | 276 | | | | | 753 |
| C | 181 | 274 | 0 | | | | | 454 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 658 | 751 | 392 | | | | | 1801 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 12 | | | | | 53 |
| B | 56 | 0 | 32 | | | | | 88 |
| C | 19 | 24 | 0 | | | | | 43 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 65 | 43 | | | | | 184 |

MODELLED — HGV

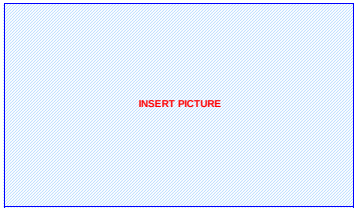
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 4 | | | | | 13 |
| B | 15 | 0 | 22 | | | | | 37 |
| C | 4 | 5 | 0 | | | | | 9 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 13 | 26 | | | | | 59 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 19 | | | | | 27 |
| C | 0 | 17 | 0 | | | | | 17 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.68 | 24.91 | 19.19 | | | | | 51.78 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / Heywood Distribution Centre




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | Pilsworth Rd NB |
| B | 20430 | 7459 | 7459 | 20430 | ywood Distribution Cer |
| C | 2813 | 7459 | 7459 | 2813 | Pilsworth Rd SB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 188 | 491 | | | | | 679 |
| B | 167 | 0 | 166 | | | | | 333 |
| C | 1197 | 348 | 0 | | | | | 1546 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1365 | 536 | 657 | | | | | 2558 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 134 | 201 | | | | | 336 |
| B | 33 | 0 | 42 | | | | | 74 |
| C | 651 | 168 | 0 | | | | | 820 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 684 | 302 | 243 | | | | | 1230 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 52 | | | | | 64 |
| B | 29 | 0 | 19 | | | | | 48 |
| C | 121 | 34 | 0 | | | | | 155 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 150 | 45 | 71 | | | | | 267 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 237 | | | | | 280 |
| B | 105 | 0 | 105 | | | | | 210 |
| C | 425 | 146 | 0 | | | | | 571 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 530 | 188 | 342 | | | | | 1061 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 86 | 643 | | | | | 729 |
| B | 216 | 0 | 202 | | | | | 419 |
| C | 794 | 310 | 0 | | | | | 1104 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1011 | 396 | 845 | | | | | 2252 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 251 | | | | | 309 |
| B | 83 | 0 | 93 | | | | | 176 |
| C | 338 | 81 | 0 | | | | | 419 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 420 | 139 | 344 | | | | | 903 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 102 | | | | | 121 |
| B | 35 | 0 | 28 | | | | | 63 |
| C | 134 | 39 | 0 | | | | | 173 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 169 | 57 | 131 | | | | | 357 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 290 | | | | | 299 |
| B | 99 | 0 | 80 | | | | | 179 |
| C | 322 | 190 | 0 | | | | | 513 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 421 | 200 | 370 | | | | | 991 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 857 | | | | | 906 |
| B | 213 | 0 | 149 | | | | | 361 |
| C | 697 | 165 | 0 | | | | | 862 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 910 | 215 | 1005 | | | | | 2130 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 655 | | | | | 684 |
| B | 165 | 0 | 113 | | | | | 278 |
| C | 423 | 57 | 0 | | | | | 480 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 588 | 86 | 767 | | | | | 1442 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 45 | | | | | 49 |
| B | 15 | 0 | 6 | | | | | 21 |
| C | 44 | 14 | 0 | | | | | 58 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 59 | 18 | 51 | | | | | 128 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 157 | | | | | 173 |
| B | 33 | 0 | 30 | | | | | 63 |
| C | 231 | 94 | 0 | | | | | 325 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 263 | 110 | 187 | | | | | 560 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / JPA1.1 & SHDA employment

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | *Pilsworth Rd SB* |
| B | 60027 | 60229 | 60229 | 60027 | *SHDA* |
| C | 60024 | 60229 | 60229 | 60024 | *Pilsworth Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 1343 | | | | | 1365 |
| B | 12 | 0 | 19 | | | | | 30 |
| C | 667 | 31 | 0 | | | | | 698 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 679 | 53 | 1362 | | | | | 2093 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 673 | | | | | 684 |
| B | 3 | 0 | 6 | | | | | 9 |
| C | 333 | 14 | 0 | | | | | 346 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 335 | 24 | 679 | | | | | 1039 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 148 | | | | | 150 |
| B | 1 | 0 | 2 | | | | | 4 |
| C | 62 | 3 | 0 | | | | | 66 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 64 | 6 | 150 | | | | | 220 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 521 | | | | | 530 |
| B | 8 | 0 | 11 | | | | | 18 |
| C | 272 | 14 | 0 | | | | | 286 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 280 | 23 | 532 | | | | | 834 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 995 | | | | | 1011 |
| B | 17 | 0 | 26 | | | | | 43 |
| C | 712 | 24 | 0 | | | | | 736 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 729 | 40 | 1021 | | | | | 1790 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 414 | | | | | 420 |
| B | 5 | 0 | 8 | | | | | 14 |
| C | 304 | 7 | 0 | | | | | 310 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 309 | 12 | 423 | | | | | 744 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 165 | | | | | 169 |
| B | 3 | 0 | 5 | | | | | 8 |
| C | 118 | 3 | 0 | | | | | 121 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 7 | 170 | | | | | 298 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 416 | | | | | 421 |
| B | 9 | 0 | 13 | | | | | 22 |
| C | 290 | 14 | 0 | | | | | 305 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 299 | 20 | 429 | | | | | 748 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 902 | | | | | 910 |
| B | 16 | 0 | 29 | | | | | 45 |
| C | 891 | 14 | 0 | | | | | 904 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 906 | 21 | 931 | | | | | 1859 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 585 | | | | | 588 |
| B | 9 | 0 | 20 | | | | | 29 |
| C | 675 | 5 | 0 | | | | | 680 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 684 | 8 | 605 | | | | | 1297 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 58 | | | | | 59 |
| B | 1 | 0 | 2 | | | | | 3 |
| C | 49 | 1 | 0 | | | | | 49 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 1 | 60 | | | | | 111 |

HGV

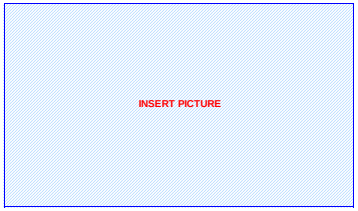
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 259 | | | | | 263 |
| B | 6 | 0 | 7 | | | | | 13 |
| C | 167 | 8 | 0 | | | | | 175 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 173 | 12 | 266 | | | | | 451 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** 3 Arrows (Pilsworth Road / Moss Hall Road - South)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 60241 | 2037 | 2037 | 60241 | *Link Road* |
| D | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1020 | 328 | 13 | | | | 1362 |
| B | 255 | 0 | 577 | 0 | | | | 833 |
| C | 440 | 1267 | 0 | 19 | | | | 1725 |
| D | 3 | 1 | 14 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 698 | 2288 | 920 | 33 | | | | 3938 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 561 | 111 | 8 | | | | 679 |
| B | 28 | 0 | 170 | 0 | | | | 199 |
| C | 317 | 840 | 0 | 6 | | | | 1163 |
| D | 1 | 1 | 1 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 346 | 1402 | 282 | 14 | | | | 2044 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 106 | 43 | 1 | | | | 150 |
| B | 41 | 0 | 105 | 0 | | | | 147 |
| C | 24 | 147 | 0 | 5 | | | | 176 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 66 | 253 | 148 | 6 | | | | 472 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 353 | 175 | 4 | | | | 532 |
| B | 186 | 0 | 301 | 0 | | | | 487 |
| C | 98 | 280 | 0 | 8 | | | | 387 |
| D | 2 | 0 | 13 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 286 | 633 | 489 | 13 | | | | 1421 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 541 | 475 | 5 | | | | 1021 |
| B | 418 | 0 | 1085 | 1 | | | | 1504 |
| C | 306 | 712 | 0 | 23 | | | | 1041 |
| D | 11 | 1 | 19 | 0 | | | | 31 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 736 | 1254 | 1579 | 29 | | | | 3598 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 179 | 242 | 3 | | | | 423 |
| B | 114 | 0 | 564 | 1 | | | | 679 |
| C | 193 | 283 | 0 | 2 | | | | 478 |
| D | 3 | 0 | 5 | 0 | | | | 9 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 310 | 462 | 811 | 5 | | | | 1589 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 105 | 63 | 2 | | | | 170 |
| B | 82 | 0 | 173 | 1 | | | | 256 |
| C | 37 | 141 | 0 | 2 | | | | 179 |
| D | 2 | 0 | 1 | 0 | | | | 4 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 246 | 238 | 5 | | | | 609 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 258 | 171 | 0 | | | | 429 |
| B | 222 | 0 | 347 | 0 | | | | 569 |
| C | 77 | 288 | 0 | 19 | | | | 383 |
| D | 6 | 0 | 12 | 0 | | | | 19 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 305 | 546 | 530 | 19 | | | | 1399 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 234 | 683 | 14 | | | | 931 |
| B | 526 | 0 | 1263 | 2 | | | | 1791 |
| C | 372 | 315 | 0 | 19 | | | | 706 |
| D | 6 | 0 | 14 | 0 | | | | 20 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 904 | 549 | 1959 | 35 | | | | 3448 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 64 | 532 | 9 | | | | 605 |
| B | 373 | 0 | 979 | 2 | | | | 1354 |
| C | 303 | 150 | 0 | 13 | | | | 465 |
| D | 4 | 0 | 10 | 0 | | | | 14 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 680 | 214 | 1521 | 23 | | | | 2439 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 44 | 0 | | | | 60 |
| B | 25 | 0 | 83 | 0 | | | | 107 |
| C | 23 | 29 | 0 | 1 | | | | 54 |
| D | 1 | 0 | 2 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 46 | 128 | 1 | | | | 225 |

MODELLED — HGV

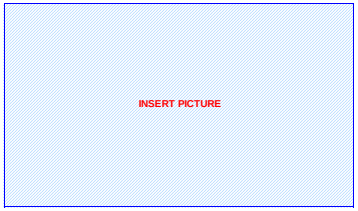
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 153 | 108 | 5 | | | | 266 |
| B | 129 | 0 | 201 | 0 | | | | 329 |
| C | 46 | 136 | 0 | 5 | | | | 187 |
| D | 0 | 0 | 2 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 175 | 289 | 310 | 11 | | | | 784 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Fowler Welch (Pilsworth Road / Moss Hall Road - North)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60241 | 60246 | 60246 | 60241 | *Moss Hall Rd NB* |
| B | 60000 | 60213 | 60213 | 60000 | *Pilsworth Road* |
| C | 60228 | 2038 | 2038 | 60228 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 687 | 231 | | | | | 918 |
| B | 1316 | 0 | 59 | | | | | 1375 |
| C | 409 | 96 | 0 | | | | | 505 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1725 | 783 | 290 | | | | | 2798 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 246 | 35 | | | | | 281 |
| B | 882 | 0 | 49 | | | | | 931 |
| C | 280 | 73 | 0 | | | | | 353 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1162 | 319 | 84 | | | | | 1565 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 94 | 54 | | | | | 148 |
| B | 105 | 0 | 9 | | | | | 114 |
| C | 71 | 16 | 0 | | | | | 87 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 176 | 110 | 63 | | | | | 349 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 347 | 142 | | | | | 489 |
| B | 329 | 0 | 1 | | | | | 330 |
| C | 58 | 7 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 387 | 354 | 143 | | | | | 884 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1095 | 483 | | | | | 1578 |
| B | 957 | 0 | 27 | | | | | 984 |
| C | 82 | 109 | 0 | | | | | 191 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1039 | 1204 | 510 | | | | | 2753 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 521 | 290 | | | | | 811 |
| B | 465 | 0 | 25 | | | | | 490 |
| C | 12 | 88 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 477 | 609 | 315 | | | | | 1401 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 155 | 82 | | | | | 237 |
| B | 151 | 0 | 2 | | | | | 153 |
| C | 28 | 16 | 0 | | | | | 44 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 179 | 171 | 84 | | | | | 434 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 419 | 111 | | | | | 530 |
| B | 341 | 0 | 0 | | | | | 341 |
| C | 42 | 5 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 383 | 424 | 111 | | | | | 918 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1376 | 583 | | | | | 1959 |
| B | 681 | 0 | 161 | | | | | 842 |
| C | 24 | 139 | 0 | | | | | 163 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 705 | 1515 | 744 | | | | | 2964 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1028 | 493 | | | | | 1521 |
| B | 458 | 0 | 140 | | | | | 598 |
| C | 6 | 124 | 0 | | | | | 130 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 464 | 1152 | 633 | | | | | 2249 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 88 | 40 | | | | | 128 |
| B | 52 | 0 | 19 | | | | | 71 |
| C | 2 | 14 | 0 | | | | | 16 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 102 | 59 | | | | | 215 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 260 | 50 | | | | | 310 |
| B | 171 | 0 | 2 | | | | | 173 |
| C | 16 | 1 | 0 | | | | | 17 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 187 | 261 | 52 | | | | | 500 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | TC 11 - Pilsworth Rd E |
| B | 3001 | 60238 | 60239 | 3000 | JTC 11 - M66 SB Off |
| C | 60213 | 60000 | 60000 | 60213 | TC 11 - Pilsworth Rd W |
| D | 60236 | 4918 | 60240 | 2998 | JTC 11 - M66 NB Off |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 365 | 591 | 234 | | | | 1190 |
| B | 560 | 0 | 305 | 0 | | | | 865 |
| C | 171 | 152 | 0 | 461 | | | | 784 |
| D | 786 | 0 | 480 | 0 | | | | 1266 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1517 | 517 | 1376 | 695 | | | | 4105 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 253 | 380 | 147 | | | | 780 |
| B | 463 | 0 | 277 | 0 | | | | 740 |
| C | 114 | 105 | 0 | 100 | | | | 319 |
| D | 636 | 0 | 275 | 0 | | | | 911 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1213 | 358 | 932 | 247 | | | | 2750 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 53 | 69 | | | | 181 |
| B | 60 | 0 | 13 | 0 | | | | 73 |
| C | 19 | 33 | 0 | 58 | | | | 110 |
| D | 96 | 0 | 48 | 0 | | | | 144 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 175 | 92 | 114 | 127 | | | | 508 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 158 | 18 | | | | 229 |
| B | 37 | 0 | 15 | 0 | | | | 52 |
| C | 38 | 14 | 0 | 303 | | | | 355 |
| D | 54 | 0 | 157 | 0 | | | | 211 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 129 | 67 | 330 | 321 | | | | 847 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 508 | 350 | 225 | | | | 1083 |
| B | 339 | 0 | 236 | 0 | | | | 575 |
| C | 279 | 121 | 0 | 804 | | | | 1204 |
| D | 428 | 0 | 399 | 0 | | | | 827 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1046 | 629 | 985 | 1029 | | | | 3689 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 398 | 216 | 158 | | | | 772 |
| B | 251 | 0 | 182 | 0 | | | | 433 |
| C | 201 | 76 | 0 | 331 | | | | 608 |
| D | 310 | 0 | 93 | 0 | | | | 403 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 762 | 474 | 491 | 489 | | | | 2216 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 42 | 43 | | | | 148 |
| B | 46 | 0 | 34 | 0 | | | | 80 |
| C | 38 | 19 | 0 | 114 | | | | 171 |
| D | 60 | 0 | 77 | 0 | | | | 137 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 144 | 82 | 153 | 157 | | | | 536 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 92 | 24 | | | | 163 |
| B | 42 | 0 | 20 | 0 | | | | 62 |
| C | 40 | 26 | 0 | 359 | | | | 425 |
| D | 58 | 0 | 229 | 0 | | | | 287 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 140 | 73 | 341 | 383 | | | | 937 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 543 | 374 | 205 | | | | 1122 |
| B | 307 | 0 | 157 | 0 | | | | 464 |
| C | 381 | 205 | 0 | 930 | | | | 1516 |
| D | 565 | 0 | 311 | 0 | | | | 876 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1253 | 748 | 842 | 1135 | | | | 3978 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 497 | 323 | 186 | | | | 1006 |
| B | 269 | 0 | 126 | 0 | | | | 395 |
| C | 320 | 185 | 0 | 647 | | | | 1152 |
| D | 436 | 0 | 149 | 0 | | | | 585 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1025 | 682 | 598 | 833 | | | | 3138 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 23 | 17 | | | | 70 |
| B | 29 | 0 | 17 | 0 | | | | 46 |
| C | 30 | 17 | 0 | 55 | | | | 102 |
| D | 65 | 0 | 31 | 0 | | | | 96 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 124 | 47 | 71 | 72 | | | | 314 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 28 | 2 | | | | 46 |
| B | 9 | 0 | 14 | 0 | | | | 23 |
| C | 31 | 3 | 0 | 228 | | | | 262 |
| D | 64 | 0 | 131 | 0 | | | | 195 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 19 | 173 | 230 | | | | 526 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N\12 - M66 NB Of |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water\ 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 143 | 113 | 399 | 1426 | 56 | | 2137 |
| B | 298 | 0 | 26 | 125 | 0 | 37 | | 486 |
| C | 63 | 3 | 0 | 10 | 23 | 0 | | 99 |
| D | 680 | 167 | 30 | 0 | 438 | 77 | | 1392 |
| E | 1501 | 0 | 63 | 207 | 18 | 101 | | 1890 |
| F | 36 | 5 | 1 | 34 | 42 | 0 | | 118 |
| G | | | | | | | | |
| TOTAL | 2578 | 318 | 233 | 775 | 1947 | 271 | | 6122 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 112 | 48 | 277 | 1103 | 52 | | 1592 |
| B | 277 | 0 | 24 | 78 | 0 | 31 | | 410 |
| C | 11 | 1 | 0 | 3 | 8 | 0 | | 23 |
| D | 540 | 98 | 24 | 0 | 320 | 44 | | 1026 |
| E | 1146 | 0 | 49 | 108 | 18 | 92 | | 1413 |
| F | 29 | 3 | 1 | 19 | 31 | 0 | | 83 |
| G | | | | | | | | |
| TOTAL | 2003 | 214 | 146 | 485 | 1480 | 219 | | 4547 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 33 | 72 | 204 | 3 | | 337 |
| B | 17 | 0 | 2 | 23 | 0 | 1 | | 43 |
| C | 37 | 2 | 0 | 5 | 10 | 0 | | 54 |
| D | 50 | 33 | 4 | 0 | 68 | 12 | | 167 |
| E | 179 | 0 | 7 | 69 | 0 | 6 | | 261 |
| F | 2 | 1 | 0 | 5 | 6 | 0 | | 14 |
| G | | | | | | | | |
| TOTAL | 285 | 61 | 46 | 174 | 288 | 22 | | 876 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 32 | 50 | 119 | 1 | | 208 |
| B | 4 | 0 | 0 | 24 | 0 | 5 | | 33 |
| C | 15 | 0 | 0 | 2 | 5 | 0 | | 22 |
| D | 90 | 36 | 2 | 0 | 50 | 21 | | 199 |
| E | 176 | 0 | 7 | 30 | 0 | 3 | | 216 |
| F | 5 | 1 | 0 | 10 | 5 | 0 | | 21 |
| G | | | | | | | | |
| TOTAL | 290 | 43 | 41 | 116 | 179 | 30 | | 699 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 159 | 114 | 268 | 1394 | 32 | | 1967 |
| B | 209 | 0 | 22 | 177 | 0 | 12 | | 420 |
| C | 84 | 13 | 0 | 14 | 37 | 1 | | 149 |
| D | 572 | 156 | 36 | 0 | 140 | 64 | | 968 |
| E | 1242 | 0 | 51 | 281 | 33 | 48 | | 1655 |
| F | 47 | 14 | 2 | 38 | 56 | 0 | | 157 |
| G | | | | | | | | |
| TOTAL | 2154 | 342 | 225 | 778 | 1660 | 157 | | 5316 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 116 | 57 | 169 | 1023 | 27 | | 1392 |
| B | 170 | 0 | 17 | 116 | 0 | 9 | | 312 |
| C | 30 | 8 | 0 | 9 | 24 | 1 | | 72 |
| D | 413 | 97 | 24 | 0 | 60 | 31 | | 625 |
| E | 881 | 0 | 39 | 175 | 33 | 36 | | 1164 |
| F | 42 | 11 | 2 | 22 | 43 | 0 | | 120 |
| G | | | | | | | | |
| TOTAL | 1536 | 232 | 139 | 491 | 1183 | 104 | | 3685 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 38 | 46 | 214 | 3 | | 323 |
| B | 22 | 0 | 3 | 27 | 0 | 1 | | 53 |
| C | 44 | 3 | 0 | 4 | 8 | 0 | | 59 |
| D | 81 | 34 | 7 | 0 | 30 | 14 | | 166 |
| E | 209 | 0 | 8 | 62 | 0 | 5 | | 284 |
| F | 4 | 2 | 0 | 9 | 5 | 0 | | 20 |
| G | | | | | | | | |
| TOTAL | 360 | 61 | 56 | 148 | 257 | 23 | | 905 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 19 | 53 | 157 | 2 | | 252 |
| B | 17 | 0 | 2 | 34 | 0 | 2 | | 55 |
| C | 10 | 2 | 0 | 1 | 5 | 0 | | 18 |
| D | 78 | 25 | 5 | 0 | 50 | 19 | | 177 |
| E | 152 | 0 | 4 | 44 | 0 | 7 | | 207 |
| F | 1 | 1 | 0 | 7 | 8 | 0 | | 17 |
| G | | | | | | | | |
| TOTAL | 258 | 49 | 30 | 139 | 220 | 30 | | 726 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 249 | 35 | 380 | 1449 | 42 | | 2155 |
| B | 297 | 0 | 6 | 159 | 0 | 14 | | 476 |
| C | 53 | 13 | 0 | 18 | 51 | 1 | | 136 |
| D | 725 | 172 | 14 | 0 | 226 | 65 | | 1202 |
| E | 1418 | 0 | 20 | 333 | 0 | 63 | | 1834 |
| F | 45 | 21 | 0 | 49 | 122 | 0 | | 237 |
| G | | | | | | | | |
| TOTAL | 2538 | 455 | 75 | 939 | 1848 | 185 | | 6040 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 234 | 18 | 344 | 1320 | 40 | | 1956 |
| B | 276 | 0 | 5 | 138 | 0 | 13 | | 432 |
| C | 24 | 12 | 0 | 16 | 47 | 1 | | 100 |
| D | 625 | 150 | 12 | 0 | 180 | 54 | | 1021 |
| E | 1243 | 0 | 16 | 286 | 0 | 50 | | 1595 |
| F | 41 | 20 | 0 | 45 | 113 | 0 | | 219 |
| G | | | | | | | | |
| TOTAL | 2209 | 416 | 51 | 829 | 1660 | 158 | | 5323 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 15 | 19 | 103 | 2 | | 153 |
| B | 18 | 0 | 1 | 18 | 0 | 1 | | 38 |
| C | 25 | 1 | 0 | 2 | 4 | 0 | | 32 |
| D | 52 | 19 | 2 | 0 | 25 | 10 | | 108 |
| E | 134 | 0 | 4 | 32 | 0 | 6 | | 176 |
| F | 3 | 1 | 0 | 3 | 3 | 0 | | 10 |
| G | | | | | | | | |
| TOTAL | 232 | 35 | 22 | 74 | 135 | 19 | | 517 |

MODELLED — HGV

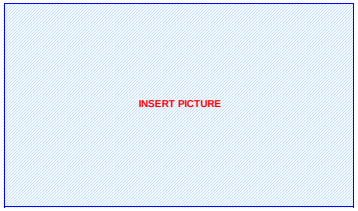
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 17 | 26 | 0 | | 46 |
| B | 3 | 0 | 0 | 3 | 0 | 0 | | 6 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 48 | 3 | 0 | 0 | 21 | 1 | | 73 |
| E | 41 | 0 | 0 | 15 | 0 | 7 | | 63 |
| F | 1 | 0 | 0 | 1 | 6 | 0 | | 8 |
| G | | | | | | | | |
| TOTAL | 97 | 4 | 2 | 36 | 53 | 8 | | 200 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | *Heywood Old Road NE* |
| B | 60074 | 2478 | 2478 | 60074 | *Whittle Lane* |
| C | 4730 | 2478 | 2478 | 4730 | *Heywood Old Road SE* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 515 | | | | | 515 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 426 | 0 | 0 | | | | | 426 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 426 | 0 | 515 | | | | | 942 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 444 | | | | | 444 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 338 | 0 | 0 | | | | | 338 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 338 | 0 | 444 | | | | | 782 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 52 | | | | | 52 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 73 | 0 | 0 | | | | | 73 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 73 | 0 | 52 | | | | | 124 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 17 | | | | | 17 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 16 | 0 | 0 | | | | | 16 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 16 | 0 | 17 | | | | | 33 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 576 | | | | | 576 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 343 | 0 | 0 | | | | | 343 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 343 | 0 | 576 | | | | | 919 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 391 | | | | | 391 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 270 | 0 | 0 | | | | | 270 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 270 | 0 | 391 | | | | | 662 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 82 | | | | | 82 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 48 | 0 | 0 | | | | | 48 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 48 | 0 | 82 | | | | | 130 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 101 | | | | | 101 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 25 | 0 | 0 | | | | | 25 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 25 | 0 | 101 | | | | | 126 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.98 | | | | | 1.98 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 763 | | | | | 763 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 499 | 0 | 0 | | | | | 499 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 499 | 0 | 763 | | | | | 1262 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 647 | | | | | 647 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 444 | 0 | 0 | | | | | 444 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 444 | 0 | 647 | | | | | 1091 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 90 | | | | | 90 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 47 | 0 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 0 | 90 | | | | | 138 |

MODELLED — HGV

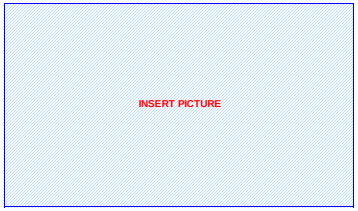
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 24 | | | | | 24 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 8 | 0 | 0 | | | | | 8 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 8 | 0 | 24 | | | | | 32 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.9 | | | | | 1.9 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Heywood Old Road / Langley Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | Heywood Old Road SB |
| B | 15238 | 4730 | 4730 | 15238 | Langley Lane |
| C | 2478 | 4730 | 4730 | 2478 | Heywood Old Road NB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 94 | 212 | | | | | 306 |
| B | 177 | 0 | 214 | | | | | 391 |
| C | 375 | 140 | 0 | | | | | 515 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 552 | 234 | 426 | | | | | 1212 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 80 | 188 | | | | | 268 |
| B | 164 | 0 | 149 | | | | | 314 |
| C | 325 | 120 | 0 | | | | | 444 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 489 | 199 | 338 | | | | | 1026 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 18 | | | | | 25 |
| B | 7 | 0 | 55 | | | | | 62 |
| C | 33 | 18 | 0 | | | | | 52 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 25 | 73 | | | | | 138 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 6 | | | | | 11 |
| B | 5 | 0 | 10 | | | | | 16 |
| C | 17 | 0 | 0 | | | | | 17 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 22 | 6 | 16 | | | | | 44 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 80 | 223 | | | | | 303 |
| B | 73 | 0 | 120 | | | | | 193 |
| C | 471 | 106 | 0 | | | | | 576 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 544 | 186 | 343 | | | | | 1072 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 162 | | | | | 233 |
| B | 59 | 0 | 108 | | | | | 167 |
| C | 309 | 83 | 0 | | | | | 391 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 368 | 153 | 270 | | | | | 791 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 37 | | | | | 42 |
| B | 7 | 0 | 11 | | | | | 18 |
| C | 67 | 15 | 0 | | | | | 82 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 20 | 48 | | | | | 141 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 24 | | | | | 26 |
| B | 6 | 0 | 1 | | | | | 7 |
| C | 95 | 6 | 0 | | | | | 101 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 101 | 8 | 25 | | | | | 134 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.93 | 0 | | | | | 5.93 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 131 | 312 | | | | | 443 |
| B | 120 | 0 | 187 | | | | | 306 |
| C | 556 | 207 | 0 | | | | | 763 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 676 | 337 | 499 | | | | | 1512 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 117 | 280 | | | | | 397 |
| B | 111 | 0 | 164 | | | | | 274 |
| C | 472 | 175 | 0 | | | | | 647 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 583 | 291 | 444 | | | | | 1318 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 24 | | | | | 35 |
| B | 6 | 0 | 23 | | | | | 29 |
| C | 62 | 29 | 0 | | | | | 90 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 40 | 47 | | | | | 155 |

MODELLED — HGV

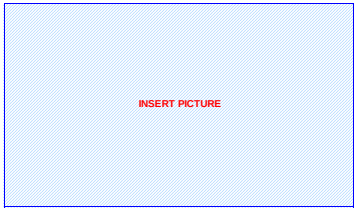
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 8 | | | | | 9 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 22 | 1 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 23 | 2 | 8 | | | | | 34 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.97 | 3.81 | 0 | | | | | 5.78 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Langley Lane / A6046 Hollin Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 112 | 966 | | | | | 1077 |
| B | 104 | 0 | 44 | | | | | 148 |
| C | 658 | 63 | 0 | | | | | 721 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 762 | 175 | 1010 | | | | | 1947 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 699 | | | | | 771 |
| B | 80 | 0 | 43 | | | | | 123 |
| C | 409 | 36 | 0 | | | | | 445 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 489 | 108 | 742 | | | | | 1340 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 169 | | | | | 199 |
| B | 20 | 0 | 1 | | | | | 20 |
| C | 133 | 26 | 0 | | | | | 159 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 153 | 56 | 170 | | | | | 379 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 78 | | | | | 87 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 86 | 2 | 0 | | | | | 88 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 87 | 11 | 79 | | | | | 176 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 19 | | | | | 19 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 0 | 19 | | | | | 52 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 935 | | | | | 985 |
| B | 59 | 0 | 9 | | | | | 68 |
| C | 666 | 16 | 0 | | | | | 682 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 725 | 66 | 944 | | | | | 1736 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 554 | | | | | 588 |
| B | 36 | 0 | 9 | | | | | 44 |
| C | 439 | 16 | 0 | | | | | 455 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 475 | 51 | 562 | | | | | 1088 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 188 | | | | | 200 |
| B | 14 | 0 | 0 | | | | | 14 |
| C | 133 | 0 | 0 | | | | | 133 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 147 | 13 | 188 | | | | | 347 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 174 | | | | | 175 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 70 | 0 | 0 | | | | | 70 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 76 | 1 | 174 | | | | | 251 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.48 | 1.99 | 19.89 | | | | | 49.36 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 170 | 958 | | | | | 1128 |
| B | 66 | 0 | 16 | | | | | 82 |
| C | 772 | 52 | 0 | | | | | 825 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 838 | 222 | 974 | | | | | 2035 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 143 | 763 | | | | | 907 |
| B | 37 | 0 | 16 | | | | | 53 |
| C | 611 | 52 | 0 | | | | | 662 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 648 | 195 | 779 | | | | | 1622 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 113 | | | | | 137 |
| B | 24 | 0 | 0 | | | | | 24 |
| C | 105 | 1 | 0 | | | | | 106 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 129 | 25 | 113 | | | | | 267 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 55 | | | | | 55 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 34 | 0 | 0 | | | | | 34 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 35 | 1 | 55 | | | | | 91 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 27 | | | | | 29 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 23 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 26.94 | 1.95 | 27.24 | | | | | 56.13 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Coronation Avenue

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 126 | 363 | | | | | 489 |
| B | 415 | 0 | 44 | | | | | 460 |
| C | 631 | 229 | 0 | | | | | 860 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1047 | 355 | 408 | | | | | 1809 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 272 | | | | | 272 |
| B | 273 | 0 | 23 | | | | | 295 |
| C | 564 | 163 | 0 | | | | | 726 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 837 | 163 | 295 | | | | | 1294 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 66 | | | | | 66 |
| B | 51 | 0 | 13 | | | | | 64 |
| C | 42 | 54 | 0 | | | | | 96 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 93 | 54 | 79 | | | | | 227 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 97 | 21 | | | | | 117 |
| B | 72 | 0 | 9 | | | | | 81 |
| C | 26 | 12 | 0 | | | | | 38 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 98 | 109 | 29 | | | | | 236 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 4 | | | | | 33 |
| B | 19 | 0 | 0 | | | | | 19 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 29 | 4 | | | | | 52 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 114 | 263 | | | | | 378 |
| B | 301 | 0 | 68 | | | | | 369 |
| C | 451 | 117 | 0 | | | | | 569 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 752 | 231 | 332 | | | | | 1315 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 183 | | | | | 183 |
| B | 159 | 0 | 17 | | | | | 176 |
| C | 315 | 75 | 0 | | | | | 390 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 474 | 75 | 200 | | | | | 750 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 53 | | | | | 53 |
| B | 8 | 0 | 43 | | | | | 51 |
| C | 93 | 28 | 0 | | | | | 122 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 101 | 28 | 96 | | | | | 226 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 91 | 22 | | | | | 112 |
| B | 114 | 0 | 8 | | | | | 122 |
| C | 41 | 13 | 0 | | | | | 54 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 155 | 104 | 30 | | | | | 289 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 19 | 0 | 0 | | | | | 19 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.37 | 23.64 | 5.91 | | | | | 50.92 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 353 | | | | | 405 |
| B | 408 | 0 | 22 | | | | | 430 |
| C | 532 | 99 | 0 | | | | | 630 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 940 | 151 | 375 | | | | | 1466 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 300 | | | | | 300 |
| B | 306 | 0 | 7 | | | | | 312 |
| C | 458 | 84 | 0 | | | | | 542 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 764 | 84 | 306 | | | | | 1154 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 31 | | | | | 31 |
| B | 41 | 0 | 15 | | | | | 55 |
| C | 45 | 13 | 0 | | | | | 58 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 86 | 13 | 45 | | | | | 144 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 19 | | | | | 48 |
| B | 35 | 0 | 1 | | | | | 37 |
| C | 26 | 2 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 62 | 30 | 20 | | | | | 112 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 4 | | | | | 27 |
| B | 26 | 0 | 0 | | | | | 26 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.15 | 23.28 | 3.88 | | | | | 55.31 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / Hollins Lane

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 377 | 488 | | | | | 865 |
| B | 306 | 0 | 61 | | | | | 367 |
| C | 819 | 54 | 0 | | | | | 873 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1124 | 431 | 549 | | | | | 2104 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 325 | 396 | | | | | 722 |
| B | 223 | 0 | 50 | | | | | 273 |
| C | 592 | 42 | 0 | | | | | 634 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 815 | 367 | 447 | | | | | 1628 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 60 | | | | | 103 |
| B | 46 | 0 | 5 | | | | | 50 |
| C | 90 | 5 | 0 | | | | | 95 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 135 | 49 | 64 | | | | | 248 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 31 | | | | | 36 |
| B | 33 | 0 | 0 | | | | | 33 |
| C | 137 | 1 | 0 | | | | | 139 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 170 | 6 | 32 | | | | | 208 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 245 | 536 | | | | | 781 |
| B | 197 | 0 | 42 | | | | | 240 |
| C | 634 | 48 | 0 | | | | | 683 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 832 | 293 | 579 | | | | | 1703 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 205 | 397 | | | | | 602 |
| B | 148 | 0 | 28 | | | | | 176 |
| C | 456 | 33 | 0 | | | | | 489 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 604 | 238 | 425 | | | | | 1267 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 81 | | | | | 112 |
| B | 32 | 0 | 8 | | | | | 40 |
| C | 95 | 9 | 0 | | | | | 104 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 126 | 40 | 89 | | | | | 255 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 59 | | | | | 65 |
| B | 13 | 0 | 0 | | | | | 14 |
| C | 84 | 0 | 0 | | | | | 84 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 97 | 7 | 59 | | | | | 163 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 3.99 | 7.91 | 5.99 | | | | | 17.89 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 400 | 597 | | | | | 998 |
| B | 182 | 0 | 40 | | | | | 222 |
| C | 539 | 66 | 0 | | | | | 605 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 720 | 466 | 637 | | | | | 1824 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 354 | 522 | | | | | 876 |
| B | 155 | 0 | 29 | | | | | 184 |
| C | 466 | 48 | 0 | | | | | 514 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 621 | 402 | 551 | | | | | 1573 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 53 | | | | | 92 |
| B | 18 | 0 | 5 | | | | | 23 |
| C | 42 | 12 | 0 | | | | | 54 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 60 | 51 | 58 | | | | | 169 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 22 | | | | | 26 |
| B | 7 | 0 | 0 | | | | | 7 |
| C | 30 | 0 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 4 | 22 | | | | | 64 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.97 | 9.62 | 5.92 | | | | | 17.51 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / A56 Manchester Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 593 | 678 | | | | | 1271 |
| B | 410 | 0 | 139 | | | | | 549 |
| C | 970 | 280 | 0 | | | | | 1249 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1380 | 873 | 816 | | | | | 3069 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 479 | 548 | | | | | 1027 |
| B | 331 | 0 | 115 | | | | | 447 |
| C | 850 | 155 | 0 | | | | | 1004 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1181 | 634 | 664 | | | | | 2478 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 74 | | | | | 137 |
| B | 52 | 0 | 12 | | | | | 64 |
| C | 75 | 32 | 0 | | | | | 106 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 127 | 95 | 86 | | | | | 308 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 46 | 36 | | | | | 82 |
| B | 21 | 0 | 11 | | | | | 32 |
| C | 26 | 93 | 0 | | | | | 119 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 139 | 47 | | | | | 232 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 6 | 20 | | | | | 51 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 415 | 694 | | | | | 1109 |
| B | 410 | 0 | 169 | | | | | 578 |
| C | 766 | 268 | 0 | | | | | 1034 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1176 | 683 | 863 | | | | | 2721 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 311 | 549 | | | | | 861 |
| B | 315 | 0 | 110 | | | | | 425 |
| C | 602 | 178 | 0 | | | | | 780 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 917 | 489 | 659 | | | | | 2065 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 86 | | | | | 147 |
| B | 55 | 0 | 34 | | | | | 89 |
| C | 106 | 43 | 0 | | | | | 148 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 161 | 104 | 120 | | | | | 384 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 39 | | | | | 75 |
| B | 34 | 0 | 25 | | | | | 59 |
| C | 37 | 48 | 0 | | | | | 84 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 71 | 84 | 64 | | | | | 219 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.73 | 5.97 | 19.91 | | | | | 53.61 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 443 | 892 | | | | | 1335 |
| B | 509 | 0 | 127 | | | | | 637 |
| C | 897 | 161 | 0 | | | | | 1058 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1406 | 605 | 1019 | | | | | 3030 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 387 | 794 | | | | | 1181 |
| B | 439 | 0 | 112 | | | | | 551 |
| C | 790 | 127 | 0 | | | | | 917 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1228 | 514 | 906 | | | | | 2648 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 69 | | | | | 100 |
| B | 46 | 0 | 12 | | | | | 58 |
| C | 75 | 22 | 0 | | | | | 97 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 54 | 81 | | | | | 256 |

MODELLED — HGV

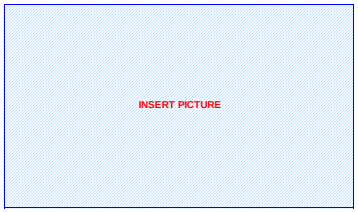
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 10 | | | | | 28 |
| B | 19 | 0 | 3 | | | | | 22 |
| C | 13 | 12 | 0 | | | | | 25 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 31 | 12 | | | | | 75 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 25.08 | 5.96 | 19.85 | | | | | 50.89 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 26859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1362 | 3501 | 865 | | | | 5728 |
| B | 619 | 35 | 1123 | 4929 | | | | 6706 |
| C | 3596 | 384 | 0 | 1171 | | | | 5151 |
| D | 1195 | 5403 | 2276 | 0 | | | | 8874 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5410 | 7184 | 6900 | 6965 | | | | 26459 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 984 | 2261 | 459 | | | | 3704 |
| B | 552 | 0 | 819 | 2544 | | | | 3915 |
| C | 2449 | 266 | 0 | 631 | | | | 3346 |
| D | 662 | 2667 | 1316 | 0 | | | | 4645 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3663 | 3917 | 4396 | 3634 | | | | 15610 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 199 | 735 | 143 | | | | 1077 |
| B | 66 | 2 | 124 | 886 | | | | 1078 |
| C | 558 | 80 | 0 | 373 | | | | 1011 |
| D | 341 | 1013 | 549 | 0 | | | | 1903 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 965 | 1294 | 1408 | 1402 | | | | 5069 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 179 | 505 | 263 | | | | 947 |
| B | 1 | 33 | 180 | 1499 | | | | 1713 |
| C | 589 | 38 | 0 | 167 | | | | 794 |
| D | 192 | 1723 | 411 | 0 | | | | 2326 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 782 | 1973 | 1096 | 1929 | | | | 5780 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1137 | 2133 | 1105 | | | | 4375 |
| B | 528 | 67 | 588 | 5193 | | | | 6376 |
| C | 2768 | 330 | 0 | 880 | | | | 3978 |
| D | 1218 | 5320 | 2034 | 0 | | | | 8572 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4514 | 6854 | 4755 | 7178 | | | | 23301 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 854 | 1282 | 435 | | | | 2571 |
| B | 506 | 0 | 425 | 2537 | | | | 3468 |
| C | 1800 | 190 | 0 | 395 | | | | 2385 |
| D | 422 | 2467 | 1062 | 0 | | | | 3951 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2728 | 3511 | 2769 | 3367 | | | | 12375 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 161 | 468 | 236 | | | | 865 |
| B | 22 | 1 | 88 | 1089 | | | | 1200 |
| C | 531 | 69 | 0 | 255 | | | | 855 |
| D | 287 | 1032 | 445 | 0 | | | | 1764 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 840 | 1263 | 1001 | 1580 | | | | 4684 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 122 | 383 | 434 | | | | 939 |
| B | 0 | 66 | 75 | 1567 | | | | 1708 |
| C | 437 | 71 | 0 | 230 | | | | 738 |
| D | 509 | 1821 | 527 | 0 | | | | 2857 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 946 | 2080 | 985 | 2231 | | | | 6242 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1178 | 2929 | 1173 | | | | 5280 |
| B | 411 | 74 | 909 | 5289 | | | | 6683 |
| C | 3889 | 392 | 0 | 919 | | | | 5200 |
| D | 1465 | 5399 | 2398 | 0 | | | | 9262 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5765 | 7043 | 6236 | 7381 | | | | 26425 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1065 | 2446 | 718 | | | | 4229 |
| B | 390 | 1 | 850 | 3519 | | | | 4760 |
| C | 3120 | 302 | 0 | 625 | | | | 4047 |
| D | 985 | 3726 | 1700 | 0 | | | | 6411 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4495 | 5094 | 4996 | 4862 | | | | 19447 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 91 | 364 | 178 | | | | 633 |
| B | 21 | 3 | 45 | 769 | | | | 838 |
| C | 498 | 79 | 0 | 251 | | | | 828 |
| D | 251 | 743 | 424 | 0 | | | | 1418 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 770 | 916 | 833 | 1198 | | | | 3717 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 119 | 277 | | | | 418 |
| B | 0 | 70 | 14 | 1001 | | | | 1085 |
| C | 271 | 11 | 0 | 43 | | | | 325 |
| D | 229 | 930 | 274 | 0 | | | | 1433 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 500 | 1033 | 407 | 1321 | | | | 3261 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | JTC 20 - A627 SB |
| B | 2727 | 2724 | 2723 | 2725 | JTC 20 - M62 WB |
| C | 2768 | 4932 | 4929 | 2767 | JTC 20 - A627 NB |
| D | 2719 | 2721 | 2722 | 2720 | JTC 20 - M62 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 265 | 1027 | 894 | | | | 2186 |
| B | 248 | 0 | 1169 | 4805 | | | | 6222 |
| C | 1098 | 857 | 0 | 1114 | | | | 3069 |
| D | 869 | 5535 | 1018 | 0 | | | | 7422 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2215 | 6657 | 3214 | 6813 | | | | 18899 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 195 | 785 | 547 | | | | 1527 |
| B | 210 | 0 | 787 | 2462 | | | | 3459 |
| C | 907 | 471 | 0 | 727 | | | | 2105 |
| D | 520 | 2807 | 681 | 0 | | | | 4008 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1637 | 3473 | 2253 | 3736 | | | | 11099 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 103 | 140 | | | | 271 |
| B | 30 | 0 | 184 | 752 | | | | 966 |
| C | 120 | 102 | 0 | 198 | | | | 420 |
| D | 128 | 995 | 189 | 0 | | | | 1312 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 278 | 1125 | 476 | 1090 | | | | 2969 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 139 | 207 | | | | 388 |
| B | 8 | 0 | 198 | 1591 | | | | 1797 |
| C | 71 | 284 | 0 | 189 | | | | 544 |
| D | 221 | 1733 | 148 | 0 | | | | 2102 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 300 | 2059 | 485 | 1987 | | | | 4831 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 137 | 836 | 737 | | | | 1710 |
| B | 253 | 0 | 962 | 4872 | | | | 6087 |
| C | 311 | 682 | 0 | 873 | | | | 1866 |
| D | 759 | 5596 | 812 | 0 | | | | 7167 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1323 | 6415 | 2610 | 6482 | | | | 16830 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 600 | 415 | | | | 1093 |
| B | 93 | 0 | 448 | 2501 | | | | 3042 |
| C | 142 | 327 | 0 | 588 | | | | 1057 |
| D | 536 | 2626 | 568 | 0 | | | | 3730 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 771 | 3031 | 1616 | 3504 | | | | 8922 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 118 | 138 | | | | 274 |
| B | 22 | 0 | 175 | 836 | | | | 1033 |
| C | 97 | 111 | 0 | 203 | | | | 411 |
| D | 142 | 974 | 159 | 0 | | | | 1275 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 261 | 1103 | 452 | 1177 | | | | 2993 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 118 | 184 | | | | 343 |
| B | 138 | 0 | 339 | 1535 | | | | 2012 |
| C | 72 | 244 | 0 | 82 | | | | 398 |
| D | 81 | 1996 | 85 | 0 | | | | 2162 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 291 | 2281 | 542 | 1801 | | | | 4915 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 246 | 931 | 1098 | | | | 2275 |
| B | 181 | 0 | 1117 | 4516 | | | | 5814 |
| C | 976 | 880 | 0 | 1289 | | | | 3145 |
| D | 598 | 5518 | 1086 | 0 | | | | 7202 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1755 | 6644 | 3134 | 6903 | | | | 18436 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 191 | 711 | 747 | | | | 1649 |
| B | 128 | 0 | 869 | 2942 | | | | 3939 |
| C | 845 | 678 | 0 | 1043 | | | | 2566 |
| D | 478 | 3831 | 949 | 0 | | | | 5258 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1451 | 4700 | 2529 | 4732 | | | | 13412 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 123 | 135 | | | | 283 |
| B | 12 | 0 | 98 | 576 | | | | 686 |
| C | 102 | 113 | 0 | 152 | | | | 367 |
| D | 92 | 730 | 100 | 0 | | | | 922 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 206 | 868 | 321 | 863 | | | | 2258 |

HGV

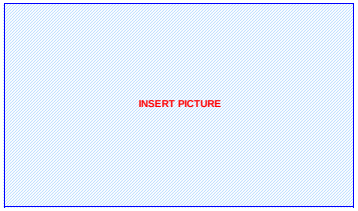
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 97 | 216 | | | | 343 |
| B | 41 | 0 | 150 | 998 | | | | 1189 |
| C | 29 | 89 | 0 | 94 | | | | 212 |
| D | 28 | 957 | 37 | 0 | | | | 1022 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 98 | 1076 | 284 | 1308 | | | | 2766 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J19




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | *JTC 21 - M60 SB* |
| B | 14141 | 5666 | 5093 | 14141 | *JTC 21 - A576 WB* |
| C | 5668 | 5665 | 5667 | 5669 | *JTC 21 - M60 NB* |
| D | 3414 | 5096 | 5095 | 3414 | *JTC 21 - A576 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 657 | 0 | 978 | | | | 1635 |
| B | 556 | 0 | 285 | 444 | | | | 1285 |
| C | 0 | 201 | 26 | 591 | | | | 818 |
| D | 510 | 209 | 797 | 0 | | | | 1516 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1066 | 1067 | 1108 | 2013 | | | | 5254 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 471 | 0 | 811 | | | | 1282 |
| B | 405 | 0 | 223 | 391 | | | | 1019 |
| C | 0 | 146 | 23 | 489 | | | | 658 |
| D | 430 | 188 | 689 | 0 | | | | 1307 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 835 | 805 | 935 | 1691 | | | | 4266 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 111 | 0 | 79 | | | | 190 |
| B | 71 | 0 | 51 | 51 | | | | 173 |
| C | 0 | 23 | 3 | 80 | | | | 106 |
| D | 50 | 17 | 89 | 0 | | | | 156 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 151 | 143 | 210 | | | | 625 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 0 | 88 | | | | 163 |
| B | 80 | 0 | 11 | 2 | | | | 93 |
| C | 0 | 32 | 0 | 22 | | | | 54 |
| D | 30 | 4 | 19 | 0 | | | | 53 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 110 | 111 | 30 | 112 | | | | 363 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 484 | 0 | 697 | | | | 1181 |
| B | 310 | 0 | 278 | 351 | | | | 939 |
| C | 0 | 356 | 39 | 545 | | | | 940 |
| D | 590 | 480 | 672 | 0 | | | | 1742 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 900 | 1320 | 989 | 1593 | | | | 4802 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 327 | 0 | 543 | | | | 870 |
| B | 243 | 0 | 181 | 313 | | | | 737 |
| C | 0 | 205 | 39 | 435 | | | | 679 |
| D | 396 | 420 | 523 | 0 | | | | 1339 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 639 | 952 | 743 | 1291 | | | | 3625 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 86 | 0 | 98 | | | | 184 |
| B | 42 | 0 | 46 | 33 | | | | 121 |
| C | 0 | 63 | 0 | 74 | | | | 137 |
| D | 114 | 50 | 107 | 0 | | | | 271 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 156 | 199 | 153 | 205 | | | | 713 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 0 | 56 | | | | 127 |
| B | 25 | 0 | 51 | 5 | | | | 81 |
| C | 0 | 88 | 0 | 36 | | | | 124 |
| D | 80 | 10 | 42 | 0 | | | | 132 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 105 | 169 | 93 | 97 | | | | 464 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 562 | 0 | 1235 | | | | 1797 |
| B | 202 | 0 | 156 | 449 | | | | 807 |
| C | 5 | 406 | 8 | 548 | | | | 967 |
| D | 868 | 853 | 790 | 0 | | | | 2511 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1075 | 1821 | 954 | 2232 | | | | 6082 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 468 | 0 | 1160 | | | | 1628 |
| B | 176 | 0 | 133 | 405 | | | | 714 |
| C | 4 | 337 | 8 | 490 | | | | 839 |
| D | 751 | 792 | 717 | 0 | | | | 2260 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 931 | 1597 | 858 | 2055 | | | | 5441 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 0 | 55 | | | | 118 |
| B | 19 | 0 | 17 | 41 | | | | 77 |
| C | 1 | 49 | 0 | 58 | | | | 108 |
| D | 99 | 60 | 66 | 0 | | | | 225 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 119 | 172 | 83 | 154 | | | | 528 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 0 | 20 | | | | 51 |
| B | 7 | 0 | 6 | 3 | | | | 16 |
| C | 0 | 20 | 0 | 0 | | | | 20 |
| D | 18 | 1 | 7 | 0 | | | | 26 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 25 | 52 | 13 | 23 | | | | 113 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A576 Middleton Road / A6045 Heywood Old Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 3 | 564 | | | | 599 |
| B | 79 | 0 | 4 | 724 | | | | 807 |
| C | 4 | 4 | 0 | 17 | | | | 25 |
| D | 295 | 778 | 11 | 0 | | | | 1084 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 379 | 815 | 17 | 1304 | | | | 2514 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 3 | 470 | | | | 500 |
| B | 57 | 0 | 1 | 537 | | | | 596 |
| C | 3 | 3 | 0 | 13 | | | | 18 |
| D | 249 | 550 | 8 | 0 | | | | 806 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 308 | 580 | 12 | 1020 | | | | 1920 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 0 | 74 | | | | 79 |
| B | 11 | 0 | 1 | 96 | | | | 108 |
| C | 1 | 1 | 0 | 3 | | | | 5 |
| D | 29 | 121 | 1 | 0 | | | | 151 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 41 | 127 | 2 | 173 | | | | 343 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 20 | | | | 20 |
| B | 11 | 0 | 2 | 72 | | | | 85 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 18 | 92 | 2 | 0 | | | | 111 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 92 | 3 | 93 | | | | 219 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 33 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 94 | 6 | 337 | | | | 437 |
| B | 136 | 0 | 6 | 613 | | | | 754 |
| C | 5 | 5 | 0 | 9 | | | | 20 |
| D | 551 | 775 | 10 | 0 | | | | 1336 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 692 | 874 | 22 | 960 | | | | 2547 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 4 | 271 | | | | 349 |
| B | 91 | 0 | 4 | 460 | | | | 555 |
| C | 3 | 3 | 0 | 7 | | | | 14 |
| D | 409 | 535 | 8 | 0 | | | | 951 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 503 | 611 | 15 | 738 | | | | 1868 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 1 | 41 | | | | 57 |
| B | 18 | 0 | 1 | 79 | | | | 98 |
| C | 1 | 1 | 0 | 1 | | | | 4 |
| D | 72 | 125 | 2 | 0 | | | | 198 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 91 | 140 | 4 | 122 | | | | 357 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 1 | 25 | | | | 32 |
| B | 27 | 0 | 1 | 56 | | | | 83 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 71 | 98 | 1 | 0 | | | | 169 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 98 | 105 | 2 | 82 | | | | 287 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.71 | 0 | 17.93 | | | | 35.64 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 101 | 3 | 371 | | | | 475 |
| B | 150 | 0 | 4 | 446 | | | | 599 |
| C | 7 | 5 | 0 | 6 | | | | 18 |
| D | 922 | 905 | 12 | 0 | | | | 1839 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1079 | 1011 | 19 | 822 | | | | 2931 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 3 | 332 | | | | 425 |
| B | 135 | 0 | 3 | 378 | | | | 516 |
| C | 6 | 4 | 0 | 4 | | | | 14 |
| D | 823 | 765 | 10 | 0 | | | | 1599 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 964 | 859 | 16 | 714 | | | | 2554 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 0 | 31 | | | | 40 |
| B | 13 | 0 | 0 | 45 | | | | 59 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 81 | 89 | 1 | 0 | | | | 171 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 99 | 2 | 77 | | | | 272 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | 8 | | | | 10 |
| B | 1 | 0 | 0 | 7 | | | | 9 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 18 | 33 | 1 | 0 | | | | 52 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 36 | 1 | 16 | | | | 72 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 17 | 0 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 16.96 | 0 | 15.61 | | | | 32.57 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3aS1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 83 | 1058 | | | | | 1142 |
| B | 0 | 0 | 1106 | | | | | 1106 |
| C | 1895 | 714 | 0 | | | | | 2609 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1895 | 797 | 2165 | | | | | 4857 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 65 | 811 | | | | | 876 |
| B | 0 | 0 | 780 | | | | | 780 |
| C | 1460 | 543 | 0 | | | | | 2003 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1460 | 608 | 1591 | | | | | 3659 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 106 | | | | | 117 |
| B | 0 | 0 | 231 | | | | | 231 |
| C | 172 | 114 | 0 | | | | | 285 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 172 | 125 | 337 | | | | | 634 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 112 | | | | | 119 |
| B | 0 | 0 | 95 | | | | | 95 |
| C | 233 | 57 | 0 | | | | | 291 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 233 | 64 | 207 | | | | | 505 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 29 | | | | | 29 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 0 | 29 | | | | | 59 |

### Model_2_Heywood_DS3aS1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 1019 | | | | | 1041 |
| B | 0 | 0 | 980 | | | | | 980 |
| C | 1578 | 611 | 0 | | | | | 2189 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1578 | 633 | 1999 | | | | | 4210 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 742 | | | | | 758 |
| B | 0 | 0 | 650 | | | | | 650 |
| C | 1131 | 406 | 0 | | | | | 1537 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1131 | 422 | 1392 | | | | | 2945 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 123 | | | | | 126 |
| B | 0 | 0 | 201 | | | | | 201 |
| C | 221 | 140 | 0 | | | | | 361 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 221 | 143 | 324 | | | | | 688 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 124 | | | | | 127 |
| B | 0 | 0 | 129 | | | | | 129 |
| C | 195 | 65 | 0 | | | | | 260 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 195 | 68 | 253 | | | | | 516 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 31 | 0 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.35 | 0 | 29.63 | | | | | 60.98 |

### Model_3_Heywood_DS3aS1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 1095 | | | | | 1099 |
| B | 0 | 0 | 1085 | | | | | 1085 |
| C | 1828 | 738 | 0 | | | | | 2566 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1828 | 742 | 2180 | | | | | 4750 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 989 | | | | | 991 |
| B | 0 | 0 | 966 | | | | | 966 |
| C | 1595 | 614 | 0 | | | | | 2209 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1595 | 616 | 1955 | | | | | 4166 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 58 | | | | | 59 |
| B | 0 | 0 | 94 | | | | | 94 |
| C | 146 | 86 | 0 | | | | | 232 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 146 | 87 | 152 | | | | | 385 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 21 | | | | | 22 |
| B | 0 | 0 | 26 | | | | | 26 |
| C | 59 | 38 | 0 | | | | | 97 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 59 | 39 | 46 | | | | | 144 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 28 | 0 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.15 | 0 | 27.14 | | | | | 55.29 |

## Run 18 - 2039 Do Something 1 - S2.1 – South Heywood Link - Origin-Destination Matrices

- Policy Off (Non Vision-Led)
- including all of the JPA1.1 Allocation Site
- including the M62 Access solution
- including Common Highway Mitigation Package and J18 DCO works
- Whittle Lane capacity constrained and South Heywood Link connection provided.

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60124 | 4924 | 4924 | 60124 | M62 J19 and Birch |
| E | 60057 | 60011 | 4924 | 2718 | C1-M62 WC1-M62 West |
| F | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizabe |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 278 | 318 | 357 | 0 | 35 | | 988 |
| B | 258 | 0 | 169 | 0 | 0 | 519 | | 946 |
| C | 267 | 212 | 0 | 243 | 0 | 164 | | 886 |
| D | 58 | 0 | 28 | 0 | 0 | 17 | | 103 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 39 | 347 | 128 | 39 | 0 | 0 | | 553 |
| G | | | | | | | | |
| TOTAL | 622 | 837 | 643 | 639 | 0 | 735 | | 3476 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 186 | 224 | 241 | 0 | 29 | | 680 |
| B | 162 | 0 | 60 | 0 | 0 | 298 | | 520 |
| C | 212 | 176 | 0 | 161 | 0 | 112 | | 661 |
| D | 23 | 0 | 2 | 0 | 0 | 9 | | 34 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 16 | 191 | 69 | 36 | 0 | 0 | | 312 |
| G | | | | | | | | |
| TOTAL | 413 | 553 | 355 | 438 | 0 | 448 | | 2207 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 69 | 76 | 39 | 0 | 6 | | 190 |
| B | 43 | 0 | 71 | 0 | 0 | 86 | | 200 |
| C | 49 | 13 | 0 | 46 | 0 | 45 | | 153 |
| D | 14 | 0 | 2 | 0 | 0 | 4 | | 20 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 23 | 35 | 14 | 2 | 0 | 0 | | 74 |
| G | | | | | | | | |
| TOTAL | 129 | 117 | 163 | 87 | 0 | 141 | | 637 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 18 | 77 | 0 | 0 | | 118 |
| B | 53 | 0 | 38 | 0 | 0 | 135 | | 226 |
| C | 6 | 23 | 0 | 36 | 0 | 7 | | 72 |
| D | 21 | 0 | 24 | 0 | 0 | 4 | | 49 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 0 | 121 | 45 | 1 | 0 | 0 | | 167 |
| G | | | | | | | | |
| TOTAL | 80 | 167 | 125 | 114 | 0 | 146 | | 632 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 240 | 285 | 245 | 0 | 2 | | 772 |
| B | 140 | 0 | 127 | 0 | 0 | 249 | | 516 |
| C | 181 | 233 | 0 | 307 | 0 | 108 | | 829 |
| D | 138 | 0 | 85 | 0 | 0 | 20 | | 243 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 35 | 274 | 117 | 18 | 0 | 0 | | 444 |
| G | | | | | | | | |
| TOTAL | 494 | 747 | 614 | 570 | 0 | 379 | | 2804 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 150 | 236 | 133 | 0 | 1 | | 520 |
| B | 87 | 0 | 91 | 0 | 0 | 111 | | 289 |
| C | 141 | 131 | 0 | 161 | 0 | 78 | | 511 |
| D | 42 | 0 | 23 | 0 | 0 | 9 | | 74 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 15 | 94 | 78 | 12 | 0 | 0 | | 199 |
| G | | | | | | | | |
| TOTAL | 285 | 375 | 428 | 306 | 0 | 199 | | 1593 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 55 | 35 | 60 | 0 | 1 | | 151 |
| B | 17 | 0 | 26 | 0 | 0 | 46 | | 89 |
| C | 24 | 37 | 0 | 69 | 0 | 21 | | 151 |
| D | 41 | 0 | 19 | 0 | 0 | 7 | | 67 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 14 | 26 | 17 | 3 | 0 | 0 | | 60 |
| G | | | | | | | | |
| TOTAL | 96 | 118 | 97 | 132 | 0 | 75 | | 518 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 14 | 52 | 0 | 0 | | 101 |
| B | 36 | 0 | 10 | 0 | 0 | 92 | | 138 |
| C | 16 | 65 | 0 | 77 | 0 | 9 | | 167 |
| D | 55 | 0 | 43 | 0 | 0 | 4 | | 102 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 6 | 154 | 22 | 3 | 0 | 0 | | 185 |
| G | | | | | | | | |
| TOTAL | 113 | 254 | 89 | 132 | 0 | 105 | | 693 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 232 | 305 | 281 | 0 | 1 | | 819 |
| B | 207 | 0 | 256 | 0 | 0 | 342 | | 805 |
| C | 244 | 162 | 0 | 309 | 0 | 93 | | 808 |
| D | 135 | 0 | 72 | 0 | 0 | 57 | | 264 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 36 | 262 | 197 | 25 | 0 | 0 | | 520 |
| G | | | | | | | | |
| TOTAL | 622 | 656 | 830 | 615 | 0 | 493 | | 3216 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 178 | 270 | 247 | 0 | 0 | | 695 |
| B | 148 | 0 | 202 | 0 | 0 | 239 | | 589 |
| C | 221 | 144 | 0 | 227 | 0 | 87 | | 679 |
| D | 91 | 0 | 44 | 0 | 0 | 47 | | 182 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 32 | 180 | 167 | 22 | 0 | 0 | | 401 |
| G | | | | | | | | |
| TOTAL | 492 | 502 | 683 | 496 | 0 | 373 | | 2546 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 30 | 18 | 0 | 1 | | 88 |
| B | 35 | 0 | 37 | 0 | 0 | 26 | | 98 |
| C | 21 | 18 | 0 | 42 | 0 | 5 | | 86 |
| D | 19 | 0 | 15 | 0 | 0 | 6 | | 40 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 4 | 21 | 13 | 2 | 0 | 0 | | 40 |
| G | | | | | | | | |
| TOTAL | 79 | 78 | 95 | 62 | 0 | 38 | | 352 |

MODELLED — HGV

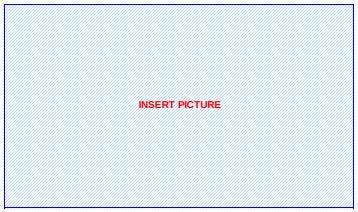
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 5 | 16 | 0 | 0 | | 36 |
| B | 24 | 0 | 17 | 0 | 0 | 77 | | 118 |
| C | 2 | 0 | 0 | 40 | 0 | 1 | | 43 |
| D | 25 | 0 | 13 | 0 | 0 | 4 | | 42 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 0 | 61 | 17 | 1 | 0 | 0 | | 79 |
| G | | | | | | | | |
| TOTAL | 51 | 76 | 52 | 57 | 0 | 82 | | 318 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | 045 Manchester Road |
| B | 60003 | 60010 | 60010 | 60003 | 4 Queen Elizabeth Wa |
| C | 2814 | 60010 | 60010 | 2814 | 045 Manchester Road |
| D | 60008 | 60010 | 60010 | 60008 | 4 Queen Elizabeth Wa |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 105 | 290 | 84 | | | | 480 |
| B | 121 | 0 | 91 | 523 | | | | 734 |
| C | 361 | 120 | 0 | 117 | | | | 598 |
| D | 126 | 326 | 48 | 0 | | | | 501 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 608 | 552 | 430 | 724 | | | | 2313 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 86 | 221 | 63 | | | | 370 |
| B | 92 | 0 | 56 | 300 | | | | 448 |
| C | 312 | 84 | 0 | 86 | | | | 483 |
| D | 81 | 140 | 39 | 0 | | | | 261 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 485 | 311 | 316 | 448 | | | | 1561 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 49 | 19 | | | | 79 |
| B | 15 | 0 | 29 | 97 | | | | 141 |
| C | 32 | 30 | 0 | 11 | | | | 73 |
| D | 21 | 32 | 7 | 0 | | | | 60 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 69 | 73 | 85 | 127 | | | | 353 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 18 | 2 | | | | 29 |
| B | 13 | 0 | 6 | 127 | | | | 146 |
| C | 17 | 6 | 0 | 20 | | | | 43 |
| D | 24 | 154 | 2 | 0 | | | | 180 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 168 | 27 | 148 | | | | 397 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 227 | 92 | | | | 356 |
| B | 123 | 0 | 35 | 221 | | | | 380 |
| C | 405 | 99 | 0 | 76 | | | | 581 |
| D | 106 | 309 | 52 | 0 | | | | 467 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 635 | 445 | 315 | 389 | | | | 1783 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 163 | 58 | | | | 244 |
| B | 74 | 0 | 25 | 99 | | | | 199 |
| C | 311 | 50 | 0 | 43 | | | | 404 |
| D | 58 | 128 | 43 | 0 | | | | 229 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 443 | 200 | 232 | 200 | | | | 1075 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 32 | 20 | | | | 58 |
| B | 43 | 0 | 8 | 24 | | | | 75 |
| C | 52 | 18 | 0 | 15 | | | | 85 |
| D | 27 | 35 | 6 | 0 | | | | 69 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 59 | 46 | 59 | | | | 286 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 30 | 15 | | | | 53 |
| B | 6 | 0 | 2 | 98 | | | | 106 |
| C | 40 | 32 | 0 | 18 | | | | 90 |
| D | 21 | 146 | 3 | 0 | | | | 169 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 67 | 186 | 35 | 131 | | | | 418 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 325 | 61 | | | | 421 |
| B | 124 | 0 | 80 | 289 | | | | 492 |
| C | 497 | 176 | 0 | 66 | | | | 738 |
| D | 177 | 308 | 87 | 0 | | | | 571 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 797 | 519 | 491 | 415 | | | | 2222 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 284 | 40 | | | | 349 |
| B | 104 | 0 | 69 | 200 | | | | 372 |
| C | 427 | 148 | 0 | 54 | | | | 629 |
| D | 140 | 227 | 76 | 0 | | | | 443 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 671 | 400 | 429 | 293 | | | | 1793 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 32 | 16 | | | | 52 |
| B | 14 | 0 | 7 | 17 | | | | 39 |
| C | 50 | 19 | 0 | 10 | | | | 78 |
| D | 14 | 18 | 9 | 0 | | | | 41 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 78 | 40 | 49 | 43 | | | | 209 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 7 | 4 | | | | 18 |
| B | 6 | 0 | 3 | 72 | | | | 82 |
| C | 18 | 9 | 0 | 2 | | | | 29 |
| D | 23 | 63 | 1 | 0 | | | | 88 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 79 | 11 | 79 | | | | 216 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.94 | 0 | 1.96 | 0 | | | | 3.9 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Hill Top Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | rehills Rd EB |
| B | 60036 | 60031 | 60031 | 60036 | ill Top Road |
| C | 60230 | 7454 | 7454 | 60230 | rehills Rd SB |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 121 | 379 | 272 | | | | 772 |
| B | 59 | 0 | 14 | 40 | | | | 113 |
| C | 596 | 49 | 0 | 184 | | | | 829 |
| D | 238 | 18 | 67 | 0 | | | | 323 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 893 | 188 | 460 | 496 | | | | 2037 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 207 | 170 | | | | 436 |
| B | 9 | 0 | 2 | 3 | | | | 14 |
| C | 394 | 36 | 0 | 118 | | | | 548 |
| D | 92 | 4 | 11 | 0 | | | | 107 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 495 | 99 | 220 | 291 | | | | 1105 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 51 | 36 | | | | 96 |
| B | 4 | 0 | 1 | 5 | | | | 10 |
| C | 106 | 5 | 0 | 22 | | | | 133 |
| D | 45 | 0 | 8 | 0 | | | | 53 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 155 | 14 | 60 | 63 | | | | 292 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 121 | 66 | | | | 240 |
| B | 46 | 0 | 11 | 32 | | | | 89 |
| C | 96 | 8 | 0 | 44 | | | | 148 |
| D | 101 | 14 | 48 | 0 | | | | 163 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 243 | 75 | 180 | 142 | | | | 640 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 68 | 388 | 205 | | | | 661 |
| B | 80 | 0 | 24 | 36 | | | | 140 |
| C | 279 | 27 | 0 | 91 | | | | 397 |
| D | 290 | 32 | 67 | 0 | | | | 389 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 649 | 127 | 479 | 332 | | | | 1587 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 209 | 116 | | | | 347 |
| B | 25 | 0 | 12 | 9 | | | | 46 |
| C | 165 | 8 | 0 | 32 | | | | 205 |
| D | 87 | 3 | 19 | 0 | | | | 109 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 277 | 33 | 240 | 157 | | | | 707 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 53 | 29 | | | | 91 |
| B | 13 | 0 | 7 | 5 | | | | 25 |
| C | 37 | 7 | 0 | 16 | | | | 60 |
| D | 47 | 4 | 10 | 0 | | | | 61 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 97 | 20 | 70 | 50 | | | | 237 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 126 | 60 | | | | 223 |
| B | 42 | 0 | 5 | 22 | | | | 69 |
| C | 77 | 12 | 0 | 43 | | | | 132 |
| D | 156 | 25 | 38 | 0 | | | | 219 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 275 | 74 | 169 | 125 | | | | 643 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 46 | 475 | 173 | | | | 694 |
| B | 78 | 0 | 48 | 22 | | | | 148 |
| C | 313 | 15 | 0 | 42 | | | | 370 |
| D | 376 | 12 | 119 | 0 | | | | 507 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 767 | 73 | 642 | 237 | | | | 1719 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 400 | 122 | | | | 538 |
| B | 55 | 0 | 30 | 15 | | | | 100 |
| C | 219 | 10 | 0 | 21 | | | | 250 |
| D | 276 | 3 | 78 | 0 | | | | 357 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 550 | 29 | 508 | 158 | | | | 1245 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 34 | 10 | | | | 46 |
| B | 3 | 0 | 8 | 1 | | | | 12 |
| C | 36 | 1 | 0 | 3 | | | | 40 |
| D | 34 | 0 | 5 | 0 | | | | 39 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 73 | 3 | 47 | 14 | | | | 137 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 41 | 41 | | | | 110 |
| B | 20 | 0 | 10 | 6 | | | | 36 |
| C | 58 | 4 | 0 | 18 | | | | 80 |
| D | 66 | 9 | 36 | 0 | | | | 111 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 144 | 41 | 87 | 65 | | | | 337 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Hareshill Road / Pilsworth Road**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 226 | 331 | | | | | 556 |
| B | 377 | 0 | 444 | | | | | 821 |
| C | 561 | 332 | 0 | | | | | 893 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 938 | 557 | 775 | | | | | 2270 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 166 | 146 | | | | | 312 |
| B | 301 | 0 | 292 | | | | | 593 |
| C | 296 | 201 | 0 | | | | | 496 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 597 | 366 | 438 | | | | | 1401 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 32 | | | | | 57 |
| B | 32 | 0 | 64 | | | | | 96 |
| C | 69 | 85 | 0 | | | | | 154 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 101 | 110 | 97 | | | | | 308 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 153 | | | | | 187 |
| B | 44 | 0 | 88 | | | | | 132 |
| C | 196 | 46 | 0 | | | | | 243 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 240 | 81 | 240 | | | | | 562 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 310 | 344 | | | | | 655 |
| B | 133 | 0 | 316 | | | | | 449 |
| C | 394 | 255 | 0 | | | | | 649 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 527 | 565 | 660 | | | | | 1752 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 195 | 156 | | | | | 351 |
| B | 85 | 0 | 189 | | | | | 275 |
| C | 127 | 151 | 0 | | | | | 278 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 212 | 346 | 346 | | | | | 904 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 46 | 42 | | | | | 88 |
| B | 18 | 0 | 50 | | | | | 67 |
| C | 49 | 48 | 0 | | | | | 97 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 66 | 94 | 92 | | | | | 252 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 69 | 146 | | | | | 215 |
| B | 30 | 0 | 77 | | | | | 107 |
| C | 218 | 56 | 0 | | | | | 274 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 248 | 126 | 223 | | | | | 596 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 371 | 382 | | | | | 753 |
| B | 118 | 0 | 314 | | | | | 433 |
| C | 345 | 420 | 0 | | | | | 765 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 463 | 791 | 696 | | | | | 1950 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 323 | 304 | | | | | 626 |
| B | 101 | 0 | 236 | | | | | 337 |
| C | 189 | 360 | 0 | | | | | 549 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 290 | 682 | 539 | | | | | 1512 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 19 | | | | | 45 |
| B | 4 | 0 | 28 | | | | | 32 |
| C | 28 | 44 | 0 | | | | | 72 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 70 | 47 | | | | | 149 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 59 | | | | | 82 |
| B | 13 | 0 | 51 | | | | | 63 |
| C | 128 | 16 | 0 | | | | | 144 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 140 | 39 | 110 | | | | | 289 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / A58 Bury St

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 494 | 138 | | | | | 632 |
| B | 550 | 0 | 538 | | | | | 1088 |
| C | 234 | 311 | 0 | | | | | 545 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 783 | 805 | 676 | | | | | 2265 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 336 | 109 | | | | | 446 |
| B | 350 | 0 | 352 | | | | | 702 |
| C | 154 | 243 | 0 | | | | | 397 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 504 | 579 | 462 | | | | | 1545 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 16 | | | | | 106 |
| B | 107 | 0 | 53 | | | | | 160 |
| C | 65 | 26 | 0 | | | | | 90 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 172 | 116 | 69 | | | | | 357 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 13 | | | | | 70 |
| B | 83 | 0 | 113 | | | | | 196 |
| C | 15 | 25 | 0 | | | | | 40 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 98 | 83 | 126 | | | | | 306 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 29 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 28 | 20 | | | | | 57 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 501 | 125 | | | | | 626 |
| B | 488 | 0 | 313 | | | | | 801 |
| C | 146 | 354 | 0 | | | | | 500 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 634 | 856 | 438 | | | | | 1927 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 363 | 84 | | | | | 447 |
| B | 334 | 0 | 198 | | | | | 532 |
| C | 112 | 222 | 0 | | | | | 334 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 446 | 585 | 281 | | | | | 1312 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 80 | 18 | | | | | 98 |
| B | 87 | 0 | 39 | | | | | 127 |
| C | 22 | 43 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 110 | 122 | 58 | | | | | 289 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 23 | | | | | 71 |
| B | 57 | 0 | 56 | | | | | 113 |
| C | 12 | 72 | 0 | | | | | 84 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 69 | 120 | 79 | | | | | 268 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.9 | 27.86 | 19.8 | | | | | 57.56 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 539 | 115 | | | | | 654 |
| B | 552 | 0 | 350 | | | | | 901 |
| C | 224 | 311 | 0 | | | | | 535 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 776 | 850 | 465 | | | | | 2091 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 478 | 95 | | | | | 572 |
| B | 471 | 0 | 283 | | | | | 754 |
| C | 203 | 260 | 0 | | | | | 463 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 675 | 737 | 377 | | | | | 1790 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 11 | | | | | 56 |
| B | 58 | 0 | 28 | | | | | 86 |
| C | 17 | 27 | 0 | | | | | 44 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 72 | 39 | | | | | 186 |

MODELLED — HGV

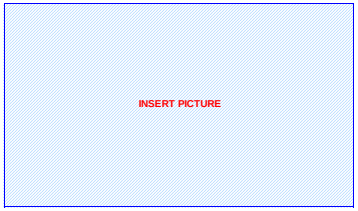
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 10 | | | | | 18 |
| B | 14 | 0 | 19 | | | | | 33 |
| C | 4 | 6 | 0 | | | | | 10 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 18 | 15 | 29 | | | | | 61 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 20 | | | | | 27 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.83 | 25.72 | 19.57 | | | | | 53.12 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / Heywood Distribution Centre




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | Pilsworth Rd NB |
| B | 20430 | 7459 | 7459 | 20430 | ywood Distribution Cer |
| C | 2813 | 7459 | 7459 | 2813 | Pilsworth Rd SB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 220 | 389 | | | | | 609 |
| B | 165 | 0 | 168 | | | | | 333 |
| C | 626 | 313 | 0 | | | | | 938 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 790 | 533 | 556 | | | | | 1880 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 162 | 270 | | | | | 432 |
| B | 32 | 0 | 42 | | | | | 74 |
| C | 460 | 137 | 0 | | | | | 597 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 492 | 299 | 312 | | | | | 1103 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 38 | | | | | 52 |
| B | 29 | 0 | 19 | | | | | 48 |
| C | 69 | 32 | 0 | | | | | 101 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 98 | 45 | 57 | | | | | 201 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 81 | | | | | 125 |
| B | 104 | 0 | 107 | | | | | 210 |
| C | 97 | 144 | 0 | | | | | 240 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 200 | 188 | 187 | | | | | 576 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 116 | 458 | | | | | 574 |
| B | 219 | 0 | 197 | | | | | 416 |
| C | 248 | 279 | 0 | | | | | 527 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 467 | 395 | 655 | | | | | 1517 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 68 | 265 | | | | | 333 |
| B | 88 | 0 | 86 | | | | | 174 |
| C | 142 | 70 | 0 | | | | | 212 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 230 | 138 | 351 | | | | | 719 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 60 | | | | | 82 |
| B | 35 | 0 | 28 | | | | | 63 |
| C | 31 | 35 | 0 | | | | | 66 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 66 | 57 | 88 | | | | | 211 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 133 | | | | | 159 |
| B | 97 | 0 | 82 | | | | | 179 |
| C | 74 | 174 | 0 | | | | | 248 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 171 | 200 | 215 | | | | | 586 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 603 | | | | | 647 |
| B | 208 | 0 | 150 | | | | | 359 |
| C | 294 | 169 | 0 | | | | | 463 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 502 | 214 | 753 | | | | | 1469 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 513 | | | | | 540 |
| B | 162 | 0 | 114 | | | | | 275 |
| C | 231 | 59 | 0 | | | | | 290 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 393 | 86 | 626 | | | | | 1105 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 39 | | | | | 42 |
| B | 15 | 0 | 6 | | | | | 21 |
| C | 19 | 14 | 0 | | | | | 33 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 18 | 45 | | | | | 96 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 51 | | | | | 66 |
| B | 32 | 0 | 31 | | | | | 63 |
| C | 44 | 96 | 0 | | | | | 140 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 77 | 110 | 82 | | | | | 269 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / JPA1.1 & SHDA employment

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | Pilsworth Rd SB |
| B | 60027 | 60229 | 60229 | 60027 | SHDA |
| C | 60024 | 60229 | 60229 | 60024 | Pilsworth Rd NB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 770 | | | | | 790 |
| B | 12 | 0 | 17 | | | | | 30 |
| C | 597 | 31 | 0 | | | | | 627 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 609 | 51 | 787 | | | | | 1448 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 483 | | | | | 492 |
| B | 3 | 0 | 5 | | | | | 8 |
| C | 429 | 13 | 0 | | | | | 443 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 432 | 22 | 488 | | | | | 943 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 96 | | | | | 98 |
| B | 1 | 0 | 2 | | | | | 4 |
| C | 50 | 3 | 0 | | | | | 54 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 52 | 6 | 98 | | | | | 156 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 191 | | | | | 200 |
| B | 8 | 0 | 10 | | | | | 18 |
| C | 117 | 14 | 0 | | | | | 131 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 125 | 23 | 201 | | | | | 349 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 454 | | | | | 467 |
| B | 18 | 0 | 25 | | | | | 43 |
| C | 556 | 26 | 0 | | | | | 583 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 574 | 39 | 479 | | | | | 1092 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 225 | | | | | 230 |
| B | 5 | 0 | 8 | | | | | 13 |
| C | 328 | 7 | 0 | | | | | 335 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 333 | 12 | 233 | | | | | 578 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 64 | | | | | 66 |
| B | 3 | 0 | 4 | | | | | 8 |
| C | 79 | 5 | 0 | | | | | 84 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 82 | 7 | 68 | | | | | 157 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 166 | | | | | 171 |
| B | 9 | 0 | 13 | | | | | 22 |
| C | 149 | 15 | 0 | | | | | 164 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 159 | 20 | 178 | | | | | 357 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 495 | | | | | 502 |
| B | 15 | 0 | 27 | | | | | 43 |
| C | 632 | 13 | 0 | | | | | 646 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 647 | 20 | 523 | | | | | 1190 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 390 | | | | | 393 |
| B | 8 | 0 | 18 | | | | | 27 |
| C | 531 | 5 | 0 | | | | | 536 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 540 | 7 | 409 | | | | | 956 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 33 | | | | | 33 |
| B | 1 | 0 | 2 | | | | | 3 |
| C | 42 | 1 | 0 | | | | | 42 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 42 | 1 | 35 | | | | | 78 |

MODELLED — HGV

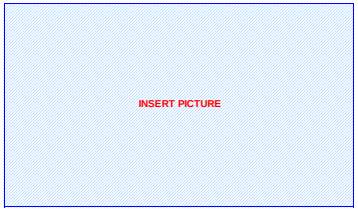
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 72 | | | | | 77 |
| B | 6 | 0 | 7 | | | | | 13 |
| C | 60 | 7 | 0 | | | | | 67 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 66 | 12 | 79 | | | | | 157 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** 3 Arrows (Pilsworth Road / Moss Hall Road - South)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 60241 | 2037 | 2037 | 60241 | *Link Road* |
| D | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 145 | 629 | 13 | | | | 787 |
| B | 40 | 0 | 367 | 1 | | | | 407 |
| C | 584 | 917 | 0 | 18 | | | | 1519 |
| D | 3 | 1 | 13 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 627 | 1064 | 1009 | 32 | | | | 2732 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 88 | 393 | 7 | | | | 488 |
| B | 11 | 0 | 167 | 1 | | | | 179 |
| C | 431 | 549 | 0 | 5 | | | | 985 |
| D | 1 | 1 | 1 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 443 | 638 | 561 | 13 | | | | 1655 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 81 | 2 | | | | 98 |
| B | 5 | 0 | 72 | 0 | | | | 76 |
| C | 49 | 111 | 0 | 5 | | | | 164 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 126 | 152 | 6 | | | | 338 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 155 | 4 | | | | 201 |
| B | 24 | 0 | 128 | 0 | | | | 153 |
| C | 104 | 258 | 0 | 8 | | | | 370 |
| D | 2 | 0 | 13 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 131 | 300 | 295 | 13 | | | | 739 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 384 | 5 | | | | 479 |
| B | 81 | 0 | 587 | 1 | | | | 669 |
| C | 490 | 521 | 0 | 23 | | | | 1033 |
| D | 12 | 1 | 18 | 0 | | | | 31 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 583 | 612 | 989 | 29 | | | | 2212 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 192 | 3 | | | | 233 |
| B | 33 | 0 | 351 | 1 | | | | 385 |
| C | 298 | 281 | 0 | 2 | | | | 581 |
| D | 3 | 1 | 5 | 0 | | | | 8 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 335 | 319 | 547 | 5 | | | | 1207 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 47 | 2 | | | | 68 |
| B | 17 | 0 | 111 | 1 | | | | 128 |
| C | 65 | 117 | 0 | 2 | | | | 184 |
| D | 2 | 0 | 1 | 0 | | | | 4 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 84 | 136 | 160 | 5 | | | | 384 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 145 | 0 | | | | 178 |
| B | 31 | 0 | 125 | 0 | | | | 156 |
| C | 127 | 123 | 0 | 19 | | | | 268 |
| D | 7 | 0 | 12 | 0 | | | | 19 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 164 | 156 | 281 | 19 | | | | 620 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 476 | 14 | | | | 523 |
| B | 68 | 0 | 800 | 4 | | | | 872 |
| C | 572 | 428 | 0 | 17 | | | | 1017 |
| D | 6 | 1 | 12 | 0 | | | | 19 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 646 | 462 | 1288 | 35 | | | | 2430 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 384 | 9 | | | | 409 |
| B | 45 | 0 | 636 | 4 | | | | 684 |
| C | 487 | 355 | 0 | 11 | | | | 853 |
| D | 4 | 1 | 8 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 536 | 372 | 1028 | 23 | | | | 1959 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 31 | 0 | | | | 35 |
| B | 3 | 0 | 65 | 0 | | | | 68 |
| C | 38 | 22 | 0 | 1 | | | | 61 |
| D | 2 | 0 | 2 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 42 | 26 | 98 | 1 | | | | 167 |

MODELLED — HGV

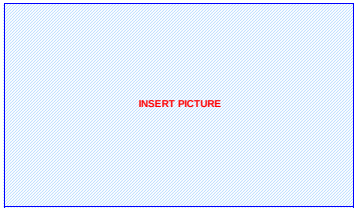
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 61 | 5 | | | | 79 |
| B | 20 | 0 | 100 | 0 | | | | 120 |
| C | 47 | 51 | 0 | 5 | | | | 103 |
| D | 0 | 0 | 2 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 67 | 64 | 162 | 11 | | | | 304 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Fowler Welch (Pilsworth Road / Moss Hall Road - North)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60241 | 60246 | 60246 | 60241 | *Moss Hall Rd NB* |
| B | 60000 | 60213 | 60213 | 60000 | *Pilsworth Road* |
| C | 60228 | 2038 | 2038 | 60228 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 834 | 175 | | | | | 1009 |
| B | 1121 | 0 | 153 | | | | | 1274 |
| C | 397 | 96 | 0 | | | | | 493 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1518 | 930 | 328 | | | | | 2776 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 513 | 48 | | | | | 561 |
| B | 724 | 0 | 119 | | | | | 843 |
| C | 261 | 72 | 0 | | | | | 333 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 985 | 585 | 167 | | | | | 1737 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 108 | 44 | | | | | 152 |
| B | 95 | 0 | 19 | | | | | 114 |
| C | 69 | 16 | 0 | | | | | 85 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 164 | 124 | 63 | | | | | 351 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 213 | 83 | | | | | 296 |
| B | 302 | 0 | 15 | | | | | 317 |
| C | 67 | 8 | 0 | | | | | 75 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 369 | 221 | 98 | | | | | 688 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 633 | 355 | | | | | 988 |
| B | 917 | 0 | 87 | | | | | 1004 |
| C | 116 | 104 | 0 | | | | | 220 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1033 | 737 | 442 | | | | | 2212 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 340 | 207 | | | | | 547 |
| B | 561 | 0 | 68 | | | | | 629 |
| C | 20 | 84 | 0 | | | | | 104 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 581 | 424 | 275 | | | | | 1280 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 94 | 66 | | | | | 160 |
| B | 140 | 0 | 12 | | | | | 152 |
| C | 44 | 16 | 0 | | | | | 60 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 184 | 110 | 78 | | | | | 372 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 199 | 82 | | | | | 281 |
| B | 216 | 0 | 7 | | | | | 223 |
| C | 52 | 4 | 0 | | | | | 56 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 268 | 203 | 89 | | | | | 560 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 804 | 485 | | | | | 1289 |
| B | 932 | 0 | 145 | | | | | 1077 |
| C | 85 | 135 | 0 | | | | | 220 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1017 | 939 | 630 | | | | | 2586 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 628 | 401 | | | | | 1029 |
| B | 813 | 0 | 131 | | | | | 944 |
| C | 40 | 121 | 0 | | | | | 161 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 853 | 749 | 532 | | | | | 2134 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 38 | | | | | 98 |
| B | 44 | 0 | 14 | | | | | 58 |
| C | 17 | 13 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 61 | 73 | 52 | | | | | 186 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 116 | 46 | | | | | 162 |
| B | 75 | 0 | 0 | | | | | 75 |
| C | 28 | 1 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 103 | 117 | 46 | | | | | 266 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | TC 11 - Pilsworth Rd E |
| B | 3001 | 60238 | 60239 | 3000 | JTC 11 - M66 SB Off |
| C | 60213 | 60000 | 60000 | 60213 | TC 11 - Pilsworth Rd W |
| D | 60236 | 4918 | 60240 | 2998 | JTC 11 - M66 NB Off |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 375 | 576 | 205 | | | | 1156 |
| B | 403 | 0 | 312 | 0 | | | | 715 |
| C | 393 | 222 | 0 | 316 | | | | 931 |
| D | 732 | 0 | 388 | 0 | | | | 1120 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1528 | 597 | 1276 | 521 | | | | 3922 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 266 | 448 | 132 | | | | 846 |
| B | 319 | 0 | 159 | 0 | | | | 478 |
| C | 298 | 163 | 0 | 125 | | | | 586 |
| D | 604 | 0 | 237 | 0 | | | | 841 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1221 | 429 | 844 | 257 | | | | 2751 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 57 | 65 | 55 | | | | 177 |
| B | 47 | 0 | 13 | 0 | | | | 60 |
| C | 60 | 40 | 0 | 25 | | | | 125 |
| D | 70 | 0 | 37 | 0 | | | | 107 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 177 | 97 | 115 | 80 | | | | 469 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 63 | 18 | | | | 133 |
| B | 37 | 0 | 140 | 0 | | | | 177 |
| C | 35 | 19 | 0 | 166 | | | | 220 |
| D | 58 | 0 | 114 | 0 | | | | 172 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 130 | 71 | 317 | 184 | | | | 702 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 465 | 451 | 199 | | | | 1115 |
| B | 337 | 0 | 284 | 0 | | | | 621 |
| C | 296 | 171 | 0 | 269 | | | | 736 |
| D | 406 | 0 | 268 | 0 | | | | 674 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1039 | 636 | 1003 | 468 | | | | 3146 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 356 | 285 | 175 | | | | 816 |
| B | 250 | 0 | 216 | 0 | | | | 466 |
| C | 218 | 122 | 0 | 84 | | | | 424 |
| D | 291 | 0 | 127 | 0 | | | | 418 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 759 | 478 | 628 | 259 | | | | 2124 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 69 | 23 | | | | 154 |
| B | 45 | 0 | 30 | 0 | | | | 75 |
| C | 41 | 23 | 0 | 45 | | | | 109 |
| D | 57 | 0 | 54 | 0 | | | | 111 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 143 | 85 | 153 | 68 | | | | 449 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 97 | 1 | | | | 145 |
| B | 42 | 0 | 38 | 0 | | | | 80 |
| C | 37 | 26 | 0 | 140 | | | | 203 |
| D | 58 | 0 | 87 | 0 | | | | 145 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 137 | 73 | 222 | 141 | | | | 573 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 547 | 539 | 191 | | | | 1277 |
| B | 299 | 0 | 290 | 0 | | | | 589 |
| C | 400 | 195 | 0 | 343 | | | | 938 |
| D | 522 | 0 | 249 | 0 | | | | 771 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1221 | 742 | 1078 | 534 | | | | 3575 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 498 | 495 | 169 | | | | 1162 |
| B | 262 | 0 | 262 | 0 | | | | 524 |
| C | 342 | 173 | 0 | 234 | | | | 749 |
| D | 393 | 0 | 188 | 0 | | | | 581 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 997 | 671 | 945 | 403 | | | | 3016 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 21 | 20 | | | | 75 |
| B | 28 | 0 | 13 | 0 | | | | 41 |
| C | 29 | 19 | 0 | 25 | | | | 73 |
| D | 64 | 0 | 24 | 0 | | | | 88 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 53 | 58 | 45 | | | | 277 |

MODELLED — HGV

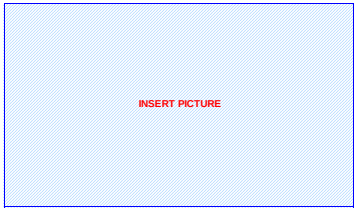
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 23 | 2 | | | | 40 |
| B | 9 | 0 | 15 | 0 | | | | 24 |
| C | 29 | 3 | 0 | 84 | | | | 116 |
| D | 65 | 0 | 37 | 0 | | | | 102 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 103 | 18 | 75 | 86 | | | | 282 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N\12 - M66 NB Of |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water\ 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 147 | 111 | 443 | 1334 | 54 | | 2089 |
| B | 281 | 0 | 25 | 200 | 0 | 37 | | 543 |
| C | 63 | 3 | 0 | 11 | 21 | 0 | | 98 |
| D | 651 | 226 | 26 | 0 | 317 | 73 | | 1293 |
| E | 1562 | 0 | 68 | 106 | 0 | 106 | | 1842 |
| F | 40 | 5 | 1 | 40 | 31 | 0 | | 117 |
| G | | | | | | | | |
| TOTAL | 2597 | 381 | 231 | 800 | 1703 | 270 | | 5982 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 114 | 46 | 316 | 1017 | 50 | | 1543 |
| B | 261 | 0 | 23 | 140 | 0 | 31 | | 455 |
| C | 11 | 1 | 0 | 4 | 7 | 0 | | 23 |
| D | 513 | 157 | 21 | 0 | 223 | 40 | | 954 |
| E | 1196 | 0 | 53 | 47 | 0 | 97 | | 1393 |
| F | 32 | 3 | 1 | 23 | 23 | 0 | | 82 |
| G | | | | | | | | |
| TOTAL | 2013 | 275 | 144 | 530 | 1270 | 218 | | 4450 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 33 | 71 | 199 | 3 | | 333 |
| B | 16 | 0 | 2 | 34 | 0 | 1 | | 53 |
| C | 37 | 2 | 0 | 5 | 9 | 0 | | 53 |
| D | 51 | 33 | 3 | 0 | 51 | 12 | | 150 |
| E | 187 | 0 | 8 | 36 | 0 | 6 | | 237 |
| F | 3 | 1 | 0 | 5 | 5 | 0 | | 14 |
| G | | | | | | | | |
| TOTAL | 294 | 63 | 46 | 151 | 264 | 22 | | 840 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 32 | 56 | 118 | 1 | | 213 |
| B | 4 | 0 | 0 | 26 | 0 | 5 | | 35 |
| C | 15 | 0 | 0 | 2 | 5 | 0 | | 22 |
| D | 87 | 36 | 2 | 0 | 43 | 21 | | 189 |
| E | 179 | 0 | 7 | 23 | 0 | 3 | | 212 |
| F | 5 | 1 | 0 | 12 | 3 | 0 | | 21 |
| G | | | | | | | | |
| TOTAL | 290 | 43 | 41 | 119 | 169 | 30 | | 692 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 165 | 116 | 305 | 1323 | 32 | | 1941 |
| B | 208 | 0 | 22 | 182 | 0 | 12 | | 424 |
| C | 83 | 13 | 0 | 15 | 36 | 1 | | 148 |
| D | 559 | 158 | 35 | 0 | 112 | 63 | | 927 |
| E | 1280 | 0 | 50 | 188 | 0 | 49 | | 1567 |
| F | 47 | 14 | 2 | 46 | 48 | 0 | | 157 |
| G | | | | | | | | |
| TOTAL | 2177 | 350 | 225 | 736 | 1519 | 157 | | 5164 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 119 | 58 | 195 | 976 | 27 | | 1375 |
| B | 169 | 0 | 17 | 125 | 0 | 9 | | 320 |
| C | 29 | 8 | 0 | 9 | 24 | 1 | | 71 |
| D | 397 | 98 | 23 | 0 | 53 | 30 | | 601 |
| E | 919 | 0 | 38 | 102 | 0 | 37 | | 1096 |
| F | 42 | 11 | 2 | 23 | 41 | 0 | | 119 |
| G | | | | | | | | |
| TOTAL | 1556 | 236 | 138 | 454 | 1094 | 104 | | 3582 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 38 | 57 | 195 | 3 | | 318 |
| B | 22 | 0 | 3 | 27 | 0 | 1 | | 53 |
| C | 44 | 3 | 0 | 5 | 7 | 0 | | 59 |
| D | 85 | 35 | 7 | 0 | 29 | 14 | | 170 |
| E | 208 | 0 | 8 | 48 | 0 | 5 | | 269 |
| F | 4 | 2 | 0 | 10 | 4 | 0 | | 20 |
| G | | | | | | | | |
| TOTAL | 363 | 65 | 56 | 147 | 235 | 23 | | 889 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 20 | 53 | 152 | 2 | | 248 |
| B | 17 | 0 | 2 | 30 | 0 | 2 | | 51 |
| C | 10 | 2 | 0 | 1 | 5 | 0 | | 18 |
| D | 77 | 25 | 5 | 0 | 30 | 19 | | 156 |
| E | 153 | 0 | 4 | 38 | 0 | 7 | | 202 |
| F | 1 | 1 | 0 | 13 | 3 | 0 | | 18 |
| G | | | | | | | | |
| TOTAL | 258 | 49 | 31 | 135 | 190 | 30 | | 693 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 250 | 35 | 429 | 1404 | 42 | | 2160 |
| B | 281 | 0 | 6 | 157 | 0 | 13 | | 457 |
| C | 53 | 13 | 0 | 18 | 49 | 1 | | 134 |
| D | 725 | 176 | 14 | 0 | 177 | 66 | | 1158 |
| E | 1436 | 0 | 19 | 290 | 0 | 62 | | 1807 |
| F | 45 | 20 | 0 | 56 | 115 | 0 | | 236 |
| G | | | | | | | | |
| TOTAL | 2540 | 459 | 74 | 950 | 1745 | 184 | | 5952 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 235 | 18 | 375 | 1289 | 40 | | 1957 |
| B | 261 | 0 | 5 | 138 | 0 | 12 | | 416 |
| C | 24 | 12 | 0 | 16 | 46 | 1 | | 99 |
| D | 627 | 154 | 12 | 0 | 141 | 55 | | 989 |
| E | 1260 | 0 | 15 | 241 | 0 | 49 | | 1565 |
| F | 41 | 19 | 0 | 46 | 112 | 0 | | 218 |
| G | | | | | | | | |
| TOTAL | 2213 | 420 | 50 | 816 | 1588 | 157 | | 5244 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 15 | 32 | 91 | 2 | | 154 |
| B | 17 | 0 | 1 | 17 | 0 | 1 | | 36 |
| C | 25 | 1 | 0 | 2 | 3 | 0 | | 31 |
| D | 53 | 19 | 2 | 0 | 24 | 10 | | 108 |
| E | 135 | 0 | 4 | 34 | 0 | 6 | | 179 |
| F | 3 | 1 | 0 | 4 | 2 | 0 | | 10 |
| G | | | | | | | | |
| TOTAL | 233 | 35 | 22 | 89 | 120 | 19 | | 518 |

MODELLED — HGV

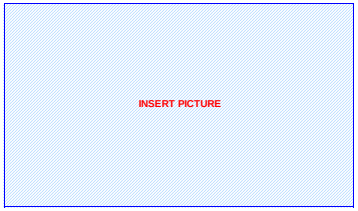
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 22 | 24 | 0 | | 49 |
| B | 3 | 0 | 0 | 2 | 0 | 0 | | 5 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 45 | 3 | 0 | 0 | 12 | 1 | | 61 |
| E | 41 | 0 | 0 | 15 | 0 | 7 | | 63 |
| F | 1 | 0 | 0 | 6 | 1 | 0 | | 8 |
| G | | | | | | | | |
| TOTAL | 94 | 4 | 2 | 45 | 37 | 8 | | 190 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | Heywood Old Road NE |
| B | 60074 | 2478 | 2478 | 60074 | Whittle Lane |
| C | 4730 | 2478 | 2478 | 4730 | Heywood Old Road SE |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 145 | 459 | | | | | 604 |
| B | 4 | 0 | 23 | | | | | 27 |
| C | 574 | 165 | 0 | | | | | 738 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 578 | 309 | 482 | | | | | 1370 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 127 | 359 | | | | | 486 |
| B | 1 | 0 | 12 | | | | | 13 |
| C | 453 | 135 | 0 | | | | | 587 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 454 | 261 | 370 | | | | | 1086 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 63 | | | | | 81 |
| B | 3 | 0 | 12 | | | | | 15 |
| C | 98 | 30 | 0 | | | | | 128 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 101 | 48 | 75 | | | | | 224 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 35 | | | | | 35 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 23 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 23 | 0 | 35 | | | | | 58 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 555 | | | | | 602 |
| B | 15 | 0 | 84 | | | | | 100 |
| C | 306 | 63 | 0 | | | | | 370 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 322 | 110 | 639 | | | | | 1071 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 383 | | | | | 410 |
| B | 12 | 0 | 52 | | | | | 64 |
| C | 237 | 30 | 0 | | | | | 268 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 250 | 57 | 435 | | | | | 742 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 82 | | | | | 102 |
| B | 3 | 0 | 32 | | | | | 35 |
| C | 39 | 33 | 0 | | | | | 72 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 43 | 53 | 114 | | | | | 210 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 87 | | | | | 87 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 29 | 0 | 87 | | | | | 117 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.98 | | | | | 1.98 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 804 | | | | | 824 |
| B | 20 | 0 | 134 | | | | | 154 |
| C | 408 | 52 | 0 | | | | | 460 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 428 | 72 | 938 | | | | | 1437 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 685 | | | | | 701 |
| B | 18 | 0 | 117 | | | | | 134 |
| C | 363 | 46 | 0 | | | | | 409 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 381 | 62 | 802 | | | | | 1244 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 91 | | | | | 94 |
| B | 2 | 0 | 17 | | | | | 19 |
| C | 39 | 6 | 0 | | | | | 44 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 41 | 10 | 108 | | | | | 158 |

MODELLED — HGV

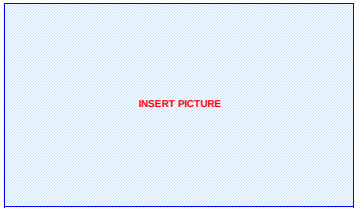
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 26 | | | | | 26 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 7 | 0 | 0 | | | | | 7 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 7 | 0 | 26 | | | | | 33 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.92 | | | | | 1.92 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Heywood Old Road / Langley Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | Heywood Old Road SB |
| B | 15238 | 4730 | 4730 | 15238 | Langley Lane |
| C | 2478 | 4730 | 4730 | 2478 | Heywood Old Road NB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 379 | | | | | 470 |
| B | 130 | 0 | 359 | | | | | 490 |
| C | 363 | 120 | 0 | | | | | 482 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 493 | 210 | 738 | | | | | 1442 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 283 | | | | | 360 |
| B | 121 | 0 | 304 | | | | | 425 |
| C | 271 | 100 | 0 | | | | | 370 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 392 | 176 | 587 | | | | | 1156 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 77 | | | | | 84 |
| B | 5 | 0 | 51 | | | | | 56 |
| C | 57 | 18 | 0 | | | | | 75 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 62 | 24 | 128 | | | | | 215 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 19 | | | | | 24 |
| B | 4 | 0 | 4 | | | | | 8 |
| C | 35 | 0 | 0 | | | | | 35 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 6 | 23 | | | | | 67 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 208 | | | | | 254 |
| B | 71 | 0 | 162 | | | | | 233 |
| C | 456 | 183 | 0 | | | | | 639 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 528 | 229 | 370 | | | | | 1127 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 146 | | | | | 187 |
| B | 57 | 0 | 122 | | | | | 180 |
| C | 306 | 130 | 0 | | | | | 435 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 363 | 171 | 268 | | | | | 802 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 33 | | | | | 36 |
| B | 6 | 0 | 39 | | | | | 46 |
| C | 70 | 44 | 0 | | | | | 114 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 77 | 47 | 72 | | | | | 196 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 29 | | | | | 30 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 80 | 7 | 0 | | | | | 87 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 86 | 8 | 29 | | | | | 123 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.97 | 0 | | | | | 5.97 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 278 | | | | | 329 |
| B | 71 | 0 | 182 | | | | | 254 |
| C | 609 | 329 | 0 | | | | | 938 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 680 | 380 | 460 | | | | | 1520 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 244 | | | | | 289 |
| B | 65 | 0 | 165 | | | | | 230 |
| C | 518 | 283 | 0 | | | | | 802 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 583 | 328 | 409 | | | | | 1320 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 28 | | | | | 31 |
| B | 4 | 0 | 16 | | | | | 20 |
| C | 66 | 43 | 0 | | | | | 108 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 70 | 46 | 44 | | | | | 160 |

MODELLED — HGV

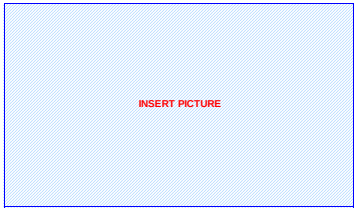
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 6 | | | | | 7 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 25 | 1 | 0 | | | | | 26 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 2 | 7 | | | | | 35 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 3.89 | 0 | | | | | 5.87 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Langley Lane / A6046 Hollin Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 145 | 849 | | | | | 994 |
| B | 106 | 0 | 44 | | | | | 150 |
| C | 683 | 8 | 0 | | | | | 692 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 789 | 153 | 893 | | | | | 1835 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 91 | 609 | | | | | 700 |
| B | 82 | 0 | 41 | | | | | 123 |
| C | 365 | 8 | 0 | | | | | 373 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 447 | 99 | 650 | | | | | 1196 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 49 | 152 | | | | | 201 |
| B | 20 | 0 | 1 | | | | | 21 |
| C | 165 | 1 | 0 | | | | | 165 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 184 | 50 | 153 | | | | | 387 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 69 | | | | | 73 |
| B | 1 | 0 | 2 | | | | | 2 |
| C | 124 | 0 | 0 | | | | | 124 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 125 | 4 | 70 | | | | | 199 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 20 | | | | | 20 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 0 | 20 | | | | | 53 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 87 | 851 | | | | | 939 |
| B | 99 | 0 | 7 | | | | | 107 |
| C | 628 | 17 | 0 | | | | | 645 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 728 | 104 | 858 | | | | | 1690 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 511 | | | | | 555 |
| B | 50 | 0 | 7 | | | | | 57 |
| C | 417 | 16 | 0 | | | | | 433 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 467 | 61 | 517 | | | | | 1045 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 153 | | | | | 193 |
| B | 40 | 0 | 0 | | | | | 41 |
| C | 99 | 0 | 0 | | | | | 99 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 139 | 40 | 154 | | | | | 333 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 168 | | | | | 168 |
| B | 5 | 0 | 0 | | | | | 5 |
| C | 89 | 0 | 0 | | | | | 89 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 1 | 168 | | | | | 263 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.75 | 1.99 | 19.92 | | | | | 49.66 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 111 | 846 | | | | | 958 |
| B | 96 | 0 | 7 | | | | | 103 |
| C | 801 | 51 | 0 | | | | | 853 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 897 | 163 | 853 | | | | | 1913 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 93 | 687 | | | | | 781 |
| B | 62 | 0 | 7 | | | | | 68 |
| C | 631 | 51 | 0 | | | | | 681 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 693 | 144 | 694 | | | | | 1530 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 88 | | | | | 104 |
| B | 30 | 0 | 0 | | | | | 30 |
| C | 96 | 1 | 0 | | | | | 97 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 125 | 17 | 88 | | | | | 231 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 43 | | | | | 43 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 51 | 0 | 0 | | | | | 51 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 52 | 0 | 43 | | | | | 96 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 27 | | | | | 29 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 23 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.26 | 1.96 | 27.38 | | | | | 56.6 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Coronation Avenue

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 115 | 340 | | | | | 454 |
| B | 358 | 0 | 11 | | | | | 369 |
| C | 525 | 182 | 0 | | | | | 706 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 883 | 296 | 351 | | | | | 1530 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 244 | | | | | 244 |
| B | 246 | 0 | 4 | | | | | 250 |
| C | 449 | 129 | 0 | | | | | 578 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 695 | 129 | 248 | | | | | 1072 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 71 | | | | | 71 |
| B | 32 | 0 | 4 | | | | | 36 |
| C | 36 | 45 | 0 | | | | | 81 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 45 | 76 | | | | | 189 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 85 | 20 | | | | | 105 |
| B | 61 | 0 | 3 | | | | | 64 |
| C | 39 | 8 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 100 | 93 | 23 | | | | | 216 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 4 | | | | | 33 |
| B | 19 | 0 | 0 | | | | | 19 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 29 | 4 | | | | | 53 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 97 | 297 | | | | | 393 |
| B | 214 | 0 | 27 | | | | | 241 |
| C | 512 | 94 | 0 | | | | | 605 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 726 | 190 | 323 | | | | | 1240 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 192 | | | | | 192 |
| B | 103 | 0 | 5 | | | | | 108 |
| C | 349 | 65 | 0 | | | | | 414 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 452 | 65 | 198 | | | | | 714 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 53 | | | | | 53 |
| B | 1 | 0 | 9 | | | | | 10 |
| C | 102 | 23 | 0 | | | | | 125 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 103 | 23 | 62 | | | | | 188 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 45 | | | | | 118 |
| B | 91 | 0 | 12 | | | | | 104 |
| C | 59 | 6 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 150 | 79 | 58 | | | | | 286 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.87 | 23.81 | 5.95 | | | | | 51.63 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 386 | | | | | 437 |
| B | 294 | 0 | 23 | | | | | 316 |
| C | 571 | 118 | 0 | | | | | 689 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 864 | 169 | 408 | | | | | 1442 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 321 | | | | | 321 |
| B | 233 | 0 | 7 | | | | | 240 |
| C | 476 | 99 | 0 | | | | | 575 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 709 | 99 | 328 | | | | | 1136 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 41 | | | | | 41 |
| B | 2 | 0 | 15 | | | | | 17 |
| C | 51 | 18 | 0 | | | | | 70 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 18 | 55 | | | | | 127 |

MODELLED — HGV

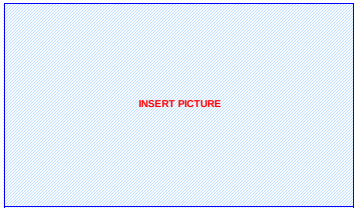
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 20 | | | | | 48 |
| B | 31 | 0 | 1 | | | | | 32 |
| C | 42 | 1 | 0 | | | | | 43 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 73 | 29 | 21 | | | | | 123 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 4 | | | | | 27 |
| B | 27 | 0 | 0 | | | | | 27 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.07 | 23.44 | 3.91 | | | | | 56.42 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / Hollins Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 387 | 494 | | | | | 880 |
| B | 287 | 0 | 48 | | | | | 336 |
| C | 803 | 59 | 0 | | | | | 862 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1091 | 446 | 542 | | | | | 2078 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 328 | 411 | | | | | 739 |
| B | 217 | 0 | 38 | | | | | 255 |
| C | 668 | 41 | 0 | | | | | 710 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 886 | 370 | 449 | | | | | 1704 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 49 | 56 | | | | | 104 |
| B | 46 | 0 | 4 | | | | | 50 |
| C | 85 | 10 | 0 | | | | | 95 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 130 | 59 | 60 | | | | | 249 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 27 | | | | | 33 |
| B | 21 | 0 | 0 | | | | | 21 |
| C | 50 | 2 | 0 | | | | | 52 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 71 | 7 | 27 | | | | | 105 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 241 | 523 | | | | | 765 |
| B | 202 | 0 | 42 | | | | | 244 |
| C | 653 | 48 | 0 | | | | | 701 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 854 | 290 | 566 | | | | | 1710 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 203 | 388 | | | | | 591 |
| B | 153 | 0 | 28 | | | | | 181 |
| C | 488 | 33 | 0 | | | | | 521 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 641 | 236 | 416 | | | | | 1293 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 79 | | | | | 109 |
| B | 32 | 0 | 8 | | | | | 40 |
| C | 97 | 9 | 0 | | | | | 106 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 130 | 39 | 87 | | | | | 256 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 56 | | | | | 63 |
| B | 12 | 0 | 0 | | | | | 13 |
| C | 67 | 0 | 0 | | | | | 68 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 79 | 7 | 57 | | | | | 143 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 3.99 | 7.96 | 5.99 | | | | | 17.94 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 385 | 572 | | | | | 957 |
| B | 178 | 0 | 40 | | | | | 218 |
| C | 692 | 54 | 0 | | | | | 746 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 870 | 439 | 612 | | | | | 1921 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 339 | 502 | | | | | 841 |
| B | 150 | 0 | 29 | | | | | 179 |
| C | 624 | 40 | 0 | | | | | 665 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 774 | 379 | 531 | | | | | 1685 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 50 | | | | | 89 |
| B | 19 | 0 | 5 | | | | | 24 |
| C | 45 | 7 | 0 | | | | | 52 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 64 | 46 | 54 | | | | | 165 |

MODELLED — HGV

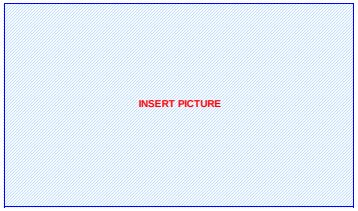
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 20 | | | | | 24 |
| B | 7 | 0 | 0 | | | | | 7 |
| C | 23 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 4 | 21 | | | | | 54 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 9.82 | 5.93 | | | | | 17.73 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / A56 Manchester Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 678 | 627 | | | | | 1306 |
| B | 475 | 0 | 67 | | | | | 542 |
| C | 923 | 184 | 0 | | | | | 1107 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1398 | 862 | 695 | | | | | 2955 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 568 | 500 | | | | | 1068 |
| B | 397 | 0 | 52 | | | | | 449 |
| C | 804 | 141 | 0 | | | | | 945 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1201 | 710 | 551 | | | | | 2462 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 65 | 72 | | | | | 137 |
| B | 52 | 0 | 8 | | | | | 60 |
| C | 70 | 30 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 95 | 79 | | | | | 296 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 36 | | | | | 75 |
| B | 19 | 0 | 8 | | | | | 27 |
| C | 30 | 13 | 0 | | | | | 43 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 52 | 44 | | | | | 145 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 6 | 20 | | | | | 52 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 473 | 678 | | | | | 1151 |
| B | 419 | 0 | 146 | | | | | 566 |
| C | 742 | 228 | 0 | | | | | 970 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1162 | 701 | 825 | | | | | 2687 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 357 | 535 | | | | | 893 |
| B | 323 | 0 | 92 | | | | | 416 |
| C | 583 | 164 | 0 | | | | | 747 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 906 | 521 | 628 | | | | | 2055 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 84 | | | | | 155 |
| B | 57 | 0 | 30 | | | | | 87 |
| C | 101 | 36 | 0 | | | | | 137 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 158 | 106 | 115 | | | | | 379 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 38 | | | | | 78 |
| B | 33 | 0 | 24 | | | | | 57 |
| C | 36 | 28 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 69 | 68 | 62 | | | | | 199 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.88 | 5.98 | 19.92 | | | | | 53.78 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 611 | 703 | | | | | 1314 |
| B | 509 | 0 | 102 | | | | | 612 |
| C | 869 | 135 | 0 | | | | | 1004 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1379 | 746 | 806 | | | | | 2930 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 554 | 611 | | | | | 1165 |
| B | 440 | 0 | 91 | | | | | 531 |
| C | 763 | 111 | 0 | | | | | 874 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1203 | 665 | 702 | | | | | 2569 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 63 | | | | | 100 |
| B | 46 | 0 | 9 | | | | | 54 |
| C | 74 | 16 | 0 | | | | | 90 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 120 | 52 | 72 | | | | | 244 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 10 | | | | | 24 |
| B | 18 | 0 | 2 | | | | | 21 |
| C | 13 | 8 | 0 | | | | | 21 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 23 | 12 | | | | | 66 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 25.39 | 5.96 | 19.87 | | | | | 51.22 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 26859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1102 | 3430 | 865 | | | | 5397 |
| B | 614 | 0 | 1081 | 4812 | | | | 6507 |
| C | 3344 | 410 | 0 | 1255 | | | | 5009 |
| D | 1177 | 5325 | 2312 | 0 | | | | 8814 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5135 | 6837 | 6823 | 6932 | | | | 25727 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 880 | 2318 | 511 | | | | 3709 |
| B | 558 | 0 | 748 | 2413 | | | | 3719 |
| C | 2289 | 277 | 0 | 670 | | | | 3236 |
| D | 655 | 2536 | 1338 | 0 | | | | 4529 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3502 | 3693 | 4404 | 3594 | | | | 15193 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 174 | 701 | 139 | | | | 1014 |
| B | 47 | 0 | 101 | 853 | | | | 1001 |
| C | 513 | 67 | 0 | 412 | | | | 992 |
| D | 341 | 995 | 554 | 0 | | | | 1890 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 901 | 1236 | 1356 | 1404 | | | | 4897 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 411 | 215 | | | | 674 |
| B | 9 | 0 | 232 | 1546 | | | | 1787 |
| C | 542 | 66 | 0 | 173 | | | | 781 |
| D | 181 | 1794 | 420 | 0 | | | | 2395 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 732 | 1908 | 1063 | 1934 | | | | 5637 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 845 | 1880 | 895 | | | | 3620 |
| B | 501 | 0 | 700 | 5411 | | | | 6612 |
| C | 2702 | 322 | 0 | 885 | | | | 3909 |
| D | 1050 | 5405 | 2115 | 0 | | | | 8570 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4253 | 6572 | 4695 | 7191 | | | | 22711 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 670 | 1148 | 388 | | | | 2206 |
| B | 488 | 0 | 479 | 2593 | | | | 3560 |
| C | 1760 | 180 | 0 | 394 | | | | 2334 |
| D | 414 | 2398 | 1102 | 0 | | | | 3914 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2662 | 3248 | 2729 | 3375 | | | | 12014 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 123 | 422 | 215 | | | | 760 |
| B | 13 | 0 | 107 | 1115 | | | | 1235 |
| C | 511 | 58 | 0 | 256 | | | | 825 |
| D | 269 | 1017 | 485 | 0 | | | | 1771 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 793 | 1198 | 1014 | 1586 | | | | 4591 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 310 | 292 | | | | 654 |
| B | 0 | 0 | 114 | 1703 | | | | 1817 |
| C | 431 | 84 | 0 | 235 | | | | 750 |
| D | 367 | 1990 | 528 | 0 | | | | 2885 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 798 | 2126 | 952 | 2230 | | | | 6106 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 943 | 2620 | 914 | | | | 4477 |
| B | 338 | 0 | 990 | 5550 | | | | 6878 |
| C | 3903 | 384 | 0 | 925 | | | | 5212 |
| D | 1392 | 5184 | 2449 | 0 | | | | 9025 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5633 | 6511 | 6059 | 7389 | | | | 25592 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 857 | 2179 | 580 | | | | 3616 |
| B | 324 | 0 | 925 | 3652 | | | | 4901 |
| C | 3149 | 285 | 0 | 633 | | | | 4067 |
| D | 991 | 3449 | 1736 | 0 | | | | 6176 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4464 | 4591 | 4840 | 4865 | | | | 18760 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 83 | 347 | 167 | | | | 597 |
| B | 14 | 0 | 40 | 779 | | | | 833 |
| C | 505 | 72 | 0 | 249 | | | | 826 |
| D | 243 | 727 | 437 | 0 | | | | 1407 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 762 | 882 | 824 | 1195 | | | | 3663 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 94 | 167 | | | | 264 |
| B | 0 | 0 | 25 | 1119 | | | | 1144 |
| C | 249 | 27 | 0 | 43 | | | | 319 |
| D | 158 | 1008 | 276 | 0 | | | | 1442 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 407 | 1038 | 395 | 1329 | | | | 3169 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | JTC 20 - A627 SB |
| B | 2727 | 2724 | 2723 | 2725 | JTC 20 - M62 WB |
| C | 2768 | 4932 | 4929 | 2767 | JTC 20 - A627 NB |
| D | 2719 | 2721 | 2722 | 2720 | JTC 20 - M62 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 267 | 969 | 986 | | | | 2222 |
| B | 206 | 0 | 1098 | 5027 | | | | 6331 |
| C | 963 | 812 | 0 | 1239 | | | | 3014 |
| D | 969 | 5454 | 1072 | 0 | | | | 7495 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2138 | 6533 | 3139 | 7252 | | | | 19062 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 197 | 751 | 598 | | | | 1546 |
| B | 175 | 0 | 781 | 2591 | | | | 3547 |
| C | 786 | 436 | 0 | 834 | | | | 2056 |
| D | 552 | 2773 | 703 | 0 | | | | 4028 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1513 | 3406 | 2235 | 4023 | | | | 11177 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 98 | 143 | | | | 269 |
| B | 25 | 0 | 154 | 794 | | | | 973 |
| C | 107 | 111 | 0 | 197 | | | | 415 |
| D | 152 | 967 | 198 | 0 | | | | 1317 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 284 | 1106 | 450 | 1134 | | | | 2974 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 120 | 245 | | | | 407 |
| B | 6 | 0 | 163 | 1642 | | | | 1811 |
| C | 70 | 265 | 0 | 208 | | | | 543 |
| D | 265 | 1714 | 171 | 0 | | | | 2150 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 341 | 2021 | 454 | 2095 | | | | 4911 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 134 | 805 | 764 | | | | 1703 |
| B | 253 | 0 | 965 | 4864 | | | | 6082 |
| C | 307 | 684 | 0 | 868 | | | | 1859 |
| D | 808 | 5615 | 763 | 0 | | | | 7186 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1368 | 6433 | 2533 | 6496 | | | | 16830 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 570 | 404 | | | | 1052 |
| B | 93 | 0 | 450 | 2497 | | | | 3040 |
| C | 138 | 327 | 0 | 586 | | | | 1051 |
| D | 539 | 2621 | 533 | 0 | | | | 3693 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 770 | 3026 | 1553 | 3487 | | | | 8836 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 117 | 145 | | | | 280 |
| B | 22 | 0 | 175 | 834 | | | | 1031 |
| C | 101 | 113 | 0 | 200 | | | | 414 |
| D | 147 | 980 | 136 | 0 | | | | 1263 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 270 | 1111 | 428 | 1179 | | | | 2988 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 118 | 215 | | | | 371 |
| B | 138 | 0 | 340 | 1533 | | | | 2011 |
| C | 68 | 244 | 0 | 82 | | | | 394 |
| D | 122 | 2014 | 94 | 0 | | | | 2230 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 328 | 2296 | 552 | 1830 | | | | 5006 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 251 | 923 | 1090 | | | | 2264 |
| B | 185 | 0 | 1089 | 4500 | | | | 5774 |
| C | 961 | 924 | 0 | 1225 | | | | 3110 |
| D | 633 | 5498 | 1036 | 0 | | | | 7167 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1779 | 6673 | 3048 | 6815 | | | | 18315 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 195 | 683 | 731 | | | | 1609 |
| B | 131 | 0 | 845 | 2921 | | | | 3897 |
| C | 829 | 694 | 0 | 985 | | | | 2508 |
| D | 502 | 3836 | 895 | 0 | | | | 5233 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1462 | 4725 | 2423 | 4637 | | | | 13247 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 117 | 136 | | | | 279 |
| B | 13 | 0 | 97 | 574 | | | | 684 |
| C | 103 | 128 | 0 | 148 | | | | 379 |
| D | 93 | 713 | 98 | 0 | | | | 904 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 209 | 867 | 312 | 858 | | | | 2246 |

MODELLED — HGV

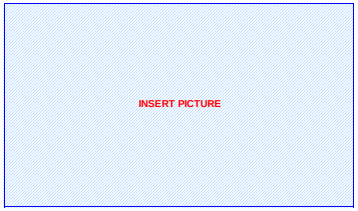
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 123 | 223 | | | | 376 |
| B | 41 | 0 | 147 | 1005 | | | | 1193 |
| C | 29 | 102 | 0 | 92 | | | | 223 |
| D | 38 | 949 | 43 | 0 | | | | 1030 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 108 | 1081 | 313 | 1320 | | | | 2822 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J19




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | JTC 21 - M60 SB |
| B | 14141 | 5666 | 5093 | 14141 | JTC 21 - A576 WB |
| C | 5668 | 5665 | 5667 | 5669 | JTC 21 - M60 NB |
| D | 3414 | 5096 | 5095 | 3414 | JTC 21 - A576 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 667 | 0 | 966 | | | | 1633 |
| B | 433 | 0 | 299 | 476 | | | | 1208 |
| C | 0 | 301 | 24 | 537 | | | | 862 |
| D | 549 | 314 | 790 | 0 | | | | 1653 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 982 | 1282 | 1113 | 1979 | | | | 5356 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 502 | 0 | 800 | | | | 1302 |
| B | 318 | 0 | 200 | 417 | | | | 935 |
| C | 0 | 203 | 22 | 443 | | | | 668 |
| D | 444 | 281 | 682 | 0 | | | | 1407 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 762 | 986 | 904 | 1660 | | | | 4312 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 103 | 0 | 78 | | | | 181 |
| B | 45 | 0 | 81 | 56 | | | | 182 |
| C | 0 | 59 | 2 | 74 | | | | 135 |
| D | 58 | 25 | 89 | 0 | | | | 172 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 103 | 187 | 172 | 208 | | | | 670 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 0 | 88 | | | | 150 |
| B | 70 | 0 | 18 | 3 | | | | 91 |
| C | 0 | 39 | 0 | 20 | | | | 59 |
| D | 47 | 8 | 19 | 0 | | | | 74 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 117 | 109 | 37 | 111 | | | | 374 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 425 | 0 | 696 | | | | 1121 |
| B | 285 | 0 | 241 | 343 | | | | 869 |
| C | 0 | 374 | 38 | 546 | | | | 958 |
| D | 562 | 502 | 664 | 0 | | | | 1728 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 847 | 1301 | 943 | 1585 | | | | 4676 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 286 | 0 | 546 | | | | 832 |
| B | 218 | 0 | 143 | 300 | | | | 661 |
| C | 0 | 218 | 38 | 435 | | | | 691 |
| D | 380 | 438 | 515 | 0 | | | | 1333 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 598 | 942 | 696 | 1281 | | | | 3517 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 86 | 0 | 94 | | | | 180 |
| B | 38 | 0 | 40 | 38 | | | | 116 |
| C | 0 | 83 | 0 | 75 | | | | 158 |
| D | 106 | 54 | 107 | 0 | | | | 267 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 144 | 223 | 147 | 207 | | | | 721 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 0 | 56 | | | | 109 |
| B | 29 | 0 | 58 | 5 | | | | 92 |
| C | 0 | 73 | 0 | 36 | | | | 109 |
| D | 76 | 10 | 42 | 0 | | | | 128 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 105 | 136 | 100 | 97 | | | | 438 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 455 | 0 | 1175 | | | | 1630 |
| B | 234 | 0 | 146 | 608 | | | | 988 |
| C | 4 | 369 | 3 | 502 | | | | 878 |
| D | 860 | 843 | 791 | 0 | | | | 2494 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1098 | 1667 | 940 | 2285 | | | | 5990 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 367 | 0 | 1098 | | | | 1465 |
| B | 203 | 0 | 113 | 553 | | | | 869 |
| C | 3 | 305 | 3 | 449 | | | | 760 |
| D | 755 | 773 | 718 | 0 | | | | 2246 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 961 | 1445 | 834 | 2100 | | | | 5340 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 0 | 57 | | | | 120 |
| B | 25 | 0 | 28 | 52 | | | | 105 |
| C | 1 | 49 | 0 | 53 | | | | 103 |
| D | 97 | 61 | 66 | 0 | | | | 224 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 123 | 173 | 94 | 162 | | | | 552 |

MODELLED — HGV

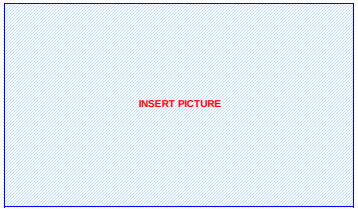
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 0 | 20 | | | | 45 |
| B | 6 | 0 | 5 | 3 | | | | 14 |
| C | 0 | 15 | 0 | 0 | | | | 15 |
| D | 8 | 9 | 7 | 0 | | | | 24 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 14 | 49 | 12 | 23 | | | | 98 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A576 Middleton Road / A6045 Heywood Old Road**




***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 2 | 516 | | | | 528 |
| B | 81 | 0 | 4 | 694 | | | | 778 |
| C | 5 | 4 | 0 | 15 | | | | 24 |
| D | 493 | 795 | 9 | 0 | | | | 1297 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 579 | 809 | 15 | 1224 | | | | 2627 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 1 | 385 | | | | 390 |
| B | 54 | 0 | 1 | 538 | | | | 594 |
| C | 3 | 2 | 0 | 11 | | | | 17 |
| D | 399 | 579 | 7 | 0 | | | | 986 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 457 | 585 | 9 | 935 | | | | 1987 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | 103 | | | | 108 |
| B | 11 | 0 | 1 | 75 | | | | 86 |
| C | 1 | 1 | 0 | 3 | | | | 5 |
| D | 65 | 120 | 1 | 0 | | | | 186 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 77 | 125 | 2 | 181 | | | | 385 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 0 | 27 | | | | 30 |
| B | 16 | 0 | 2 | 63 | | | | 81 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 29 | 80 | 1 | 0 | | | | 109 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 45 | 83 | 3 | 91 | | | | 222 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 34 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 80 | 7 | 255 | | | | 341 |
| B | 91 | 0 | 6 | 621 | | | | 717 |
| C | 5 | 5 | 0 | 9 | | | | 19 |
| D | 537 | 772 | 9 | 0 | | | | 1318 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 633 | 857 | 21 | 885 | | | | 2396 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 67 | 5 | 189 | | | | 261 |
| B | 53 | 0 | 4 | 465 | | | | 521 |
| C | 3 | 3 | 0 | 7 | | | | 13 |
| D | 389 | 546 | 7 | 0 | | | | 941 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 444 | 616 | 15 | 661 | | | | 1736 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 1 | 36 | | | | 45 |
| B | 12 | 0 | 1 | 78 | | | | 91 |
| C | 1 | 1 | 0 | 1 | | | | 4 |
| D | 91 | 130 | 2 | 0 | | | | 223 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 139 | 4 | 115 | | | | 363 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 1 | 30 | | | | 35 |
| B | 26 | 0 | 1 | 60 | | | | 87 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 57 | 78 | 1 | 0 | | | | 136 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 84 | 84 | 2 | 91 | | | | 261 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.81 | 0 | 17.94 | | | | 35.75 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 2 | 349 | | | | 426 |
| B | 135 | 0 | 4 | 649 | | | | 789 |
| C | 4 | 6 | 0 | 6 | | | | 15 |
| D | 713 | 960 | 11 | 0 | | | | 1685 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 853 | 1040 | 18 | 1004 | | | | 2915 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 67 | 2 | 306 | | | | 376 |
| B | 125 | 0 | 4 | 559 | | | | 688 |
| C | 3 | 4 | 0 | 4 | | | | 12 |
| D | 619 | 816 | 9 | 0 | | | | 1444 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 747 | 888 | 15 | 869 | | | | 2520 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 0 | 38 | | | | 44 |
| B | 9 | 0 | 0 | 66 | | | | 76 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 73 | 100 | 1 | 0 | | | | 174 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 82 | 106 | 2 | 105 | | | | 295 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 0 | 5 | | | | 6 |
| B | 1 | 0 | 0 | 8 | | | | 9 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 21 | 27 | 1 | 0 | | | | 49 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 23 | 29 | 1 | 14 | | | | 67 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 17 | 0 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.15 | 0 | 15.61 | | | | 32.76 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1bS2_1_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 93 | 1028 | | | | | 1121 |
| B | 0 | 0 | 1089 | | | | | 1089 |
| C | 1926 | 703 | 0 | | | | | 2630 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1926 | 797 | 2117 | | | | | 4840 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 70 | 774 | | | | | 844 |
| B | 0 | 0 | 768 | | | | | 768 |
| C | 1481 | 533 | 0 | | | | | 2014 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1481 | 603 | 1542 | | | | | 3626 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 106 | | | | | 120 |
| B | 0 | 0 | 227 | | | | | 227 |
| C | 183 | 111 | 0 | | | | | 295 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 183 | 125 | 334 | | | | | 642 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 119 | | | | | 128 |
| B | 0 | 0 | 94 | | | | | 94 |
| C | 232 | 59 | 0 | | | | | 291 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 232 | 69 | 212 | | | | | 513 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 29 | | | | | 29 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 0 | 29 | | | | | 60 |

### Model_2_Heywood_DS1bS2_1_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 996 | | | | | 1030 |
| B | 0 | 0 | 976 | | | | | 976 |
| C | 1604 | 604 | 0 | | | | | 2207 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1604 | 638 | 1972 | | | | | 4213 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 725 | | | | | 749 |
| B | 0 | 0 | 650 | | | | | 650 |
| C | 1157 | 398 | 0 | | | | | 1554 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1157 | 421 | 1376 | | | | | 2953 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 119 | | | | | 124 |
| B | 0 | 0 | 200 | | | | | 200 |
| C | 222 | 141 | 0 | | | | | 363 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 222 | 147 | 319 | | | | | 687 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 122 | | | | | 127 |
| B | 0 | 0 | 125 | | | | | 125 |
| C | 193 | 65 | 0 | | | | | 259 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 193 | 70 | 248 | | | | | 511 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.57 | 0 | 29.62 | | | | | 61.19 |

### Model_3_Heywood_DS1bS2_1_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 1106 | | | | | 1111 |
| B | 0 | 0 | 1080 | | | | | 1080 |
| C | 1839 | 729 | 0 | | | | | 2568 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1839 | 734 | 2186 | | | | | 4758 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 996 | | | | | 998 |
| B | 0 | 0 | 961 | | | | | 961 |
| C | 1607 | 605 | 0 | | | | | 2212 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1607 | 607 | 1957 | | | | | 4171 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 60 | | | | | 62 |
| B | 0 | 0 | 93 | | | | | 93 |
| C | 147 | 86 | 0 | | | | | 233 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 147 | 87 | 154 | | | | | 388 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 23 | | | | | 23 |
| B | 0 | 0 | 25 | | | | | 25 |
| C | 56 | 38 | 0 | | | | | 94 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 39 | 48 | | | | | 143 |

MODELLED — Fixed

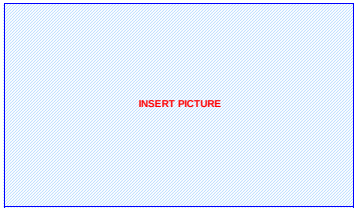
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.6 | 0 | 27.17 | | | | | 55.77 |

## Run 19 - 2039 Do Something 3 – S2.2 – South Heywood Link - Origin-Destination Matrices

- Policy Off (Non Vision-Led)
- including all of the JPA1.1 Allocation Site & all of the JPA1.2 Allocation Site
- including the M62 Access solution
- including Common Highway Mitigation Package and J18 DCO works
- Whittle Lane capacity constrained and South Heywood Link connection provided.

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60124 | 4924 | 4924 | 60124 | M62 J19 and Birch |
| E | 60057 | 60011 | 4924 | 2718 | C1-M62 WC1-M62 West |
| F | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizabe |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 273 | 341 | 345 | 0 | 31 | | 990 |
| B | 251 | 0 | 165 | 0 | 0 | 562 | | 978 |
| C | 274 | 209 | 0 | 215 | 0 | 180 | | 878 |
| D | 68 | 0 | 30 | 0 | 0 | 3 | | 101 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 14 | 393 | 145 | 97 | 0 | 0 | | 649 |
| G | | | | | | | | |
| TOTAL | 607 | 875 | 681 | 657 | 0 | 776 | | 3596 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 183 | 245 | 221 | 0 | 30 | | 679 |
| B | 155 | 0 | 59 | 0 | 0 | 314 | | 528 |
| C | 216 | 168 | 0 | 132 | 0 | 126 | | 642 |
| D | 27 | 0 | 4 | 0 | 0 | 3 | | 34 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 4 | 237 | 81 | 75 | 0 | 0 | | 397 |
| G | | | | | | | | |
| TOTAL | 402 | 588 | 389 | 428 | 0 | 473 | | 2280 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 67 | 77 | 50 | 0 | 1 | | 195 |
| B | 43 | 0 | 67 | 0 | 0 | 94 | | 204 |
| C | 50 | 18 | 0 | 47 | 0 | 47 | | 162 |
| D | 19 | 0 | 2 | 0 | 0 | 0 | | 21 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 10 | 38 | 19 | 18 | 0 | 0 | | 85 |
| G | | | | | | | | |
| TOTAL | 122 | 123 | 165 | 115 | 0 | 142 | | 667 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 19 | 74 | 0 | 0 | | 116 |
| B | 53 | 0 | 39 | 0 | 0 | 154 | | 246 |
| C | 8 | 23 | 0 | 36 | 0 | 7 | | 74 |
| D | 22 | 0 | 24 | 0 | 0 | 0 | | 46 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 0 | 118 | 45 | 4 | 0 | 0 | | 167 |
| G | | | | | | | | |
| TOTAL | 83 | 164 | 127 | 114 | 0 | 161 | | 649 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 239 | 288 | 251 | 0 | 2 | | 780 |
| B | 137 | 0 | 126 | 0 | 0 | 261 | | 524 |
| C | 186 | 228 | 0 | 304 | 0 | 112 | | 830 |
| D | 141 | 0 | 85 | 0 | 0 | 19 | | 245 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 34 | 286 | 121 | 18 | 0 | 0 | | 459 |
| G | | | | | | | | |
| TOTAL | 498 | 753 | 620 | 573 | 0 | 394 | | 2838 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 150 | 237 | 135 | 0 | 1 | | 523 |
| B | 85 | 0 | 91 | 0 | 0 | 121 | | 297 |
| C | 145 | 127 | 0 | 157 | 0 | 80 | | 509 |
| D | 46 | 0 | 23 | 0 | 0 | 8 | | 77 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 16 | 107 | 78 | 12 | 0 | 0 | | 213 |
| G | | | | | | | | |
| TOTAL | 292 | 384 | 429 | 304 | 0 | 210 | | 1619 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 37 | 64 | 0 | 1 | | 156 |
| B | 16 | 0 | 25 | 0 | 0 | 48 | | 89 |
| C | 25 | 36 | 0 | 70 | 0 | 23 | | 154 |
| D | 40 | 0 | 20 | 0 | 0 | 7 | | 67 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 11 | 29 | 20 | 3 | 0 | 0 | | 63 |
| G | | | | | | | | |
| TOTAL | 92 | 119 | 102 | 137 | 0 | 79 | | 529 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 14 | 52 | 0 | 0 | | 101 |
| B | 36 | 0 | 10 | 0 | 0 | 92 | | 138 |
| C | 16 | 65 | 0 | 77 | 0 | 9 | | 167 |
| D | 55 | 0 | 42 | 0 | 0 | 4 | | 101 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 7 | 150 | 23 | 3 | 0 | 0 | | 183 |
| G | | | | | | | | |
| TOTAL | 114 | 250 | 89 | 132 | 0 | 105 | | 690 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 225 | 305 | 307 | 0 | 2 | | 839 |
| B | 212 | 0 | 214 | 0 | 0 | 377 | | 803 |
| C | 240 | 150 | 0 | 371 | 0 | 89 | | 850 |
| D | 147 | 0 | 72 | 0 | 0 | 62 | | 281 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 36 | 275 | 192 | 25 | 0 | 0 | | 528 |
| G | | | | | | | | |
| TOTAL | 635 | 650 | 783 | 703 | 0 | 530 | | 3301 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 172 | 269 | 261 | 0 | 1 | | 703 |
| B | 153 | 0 | 178 | 0 | 0 | 266 | | 597 |
| C | 217 | 132 | 0 | 282 | 0 | 83 | | 714 |
| D | 102 | 0 | 44 | 0 | 0 | 52 | | 198 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 32 | 198 | 162 | 22 | 0 | 0 | | 414 |
| G | | | | | | | | |
| TOTAL | 504 | 502 | 653 | 565 | 0 | 402 | | 2626 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 31 | 30 | 0 | 1 | | 100 |
| B | 35 | 0 | 28 | 0 | 0 | 34 | | 97 |
| C | 21 | 18 | 0 | 48 | 0 | 5 | | 92 |
| D | 20 | 0 | 15 | 0 | 0 | 6 | | 41 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 4 | 24 | 14 | 2 | 0 | 0 | | 44 |
| G | | | | | | | | |
| TOTAL | 80 | 80 | 88 | 80 | 0 | 46 | | 374 |

MODELLED — HGV

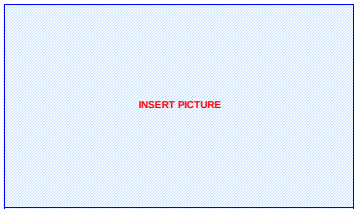
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 5 | 16 | 0 | 0 | | 36 |
| B | 24 | 0 | 8 | 0 | 0 | 77 | | 109 |
| C | 2 | 0 | 0 | 41 | 0 | 1 | | 44 |
| D | 25 | 0 | 13 | 0 | 0 | 4 | | 42 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 0 | 53 | 16 | 1 | 0 | 0 | | 70 |
| G | | | | | | | | |
| TOTAL | 51 | 68 | 42 | 58 | 0 | 82 | | 301 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | 045 Manchester Road |
| B | 60003 | 60010 | 60010 | 60003 | 4 Queen Elizabeth Wa |
| C | 2814 | 60010 | 60010 | 2814 | 045 Manchester Road |
| D | 60008 | 60010 | 60010 | 60008 | 4 Queen Elizabeth Wa |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 189 | 204 | 84 | | | | 477 |
| B | 122 | 0 | 106 | 550 | | | | 778 |
| C | 359 | 138 | 0 | 137 | | | | 634 |
| D | 148 | 323 | 54 | 0 | | | | 524 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 630 | 650 | 363 | 771 | | | | 2413 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 144 | 178 | 60 | | | | 382 |
| B | 101 | 0 | 70 | 303 | | | | 474 |
| C | 308 | 120 | 0 | 117 | | | | 545 |
| D | 91 | 134 | 44 | 0 | | | | 269 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 500 | 397 | 292 | 480 | | | | 1670 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 16 | 21 | | | | 71 |
| B | 12 | 0 | 32 | 98 | | | | 142 |
| C | 38 | 16 | 0 | 11 | | | | 66 |
| D | 25 | 35 | 7 | 0 | | | | 68 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 76 | 85 | 55 | 131 | | | | 346 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 8 | 2 | | | | 22 |
| B | 9 | 0 | 3 | 149 | | | | 161 |
| C | 13 | 3 | 0 | 8 | | | | 24 |
| D | 32 | 153 | 3 | 0 | | | | 188 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 167 | 14 | 160 | | | | 395 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 227 | 93 | | | | 358 |
| B | 124 | 0 | 48 | 225 | | | | 397 |
| C | 383 | 116 | 0 | 70 | | | | 568 |
| D | 117 | 306 | 55 | 0 | | | | 478 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 624 | 459 | 330 | 388 | | | | 1801 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 168 | 58 | | | | 249 |
| B | 74 | 0 | 36 | 101 | | | | 211 |
| C | 294 | 64 | 0 | 43 | | | | 401 |
| D | 60 | 128 | 46 | 0 | | | | 234 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 428 | 215 | 250 | 202 | | | | 1096 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 28 | 20 | | | | 54 |
| B | 45 | 0 | 9 | 26 | | | | 80 |
| C | 50 | 20 | 0 | 10 | | | | 80 |
| D | 30 | 36 | 7 | 0 | | | | 73 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 125 | 62 | 43 | 55 | | | | 286 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 29 | 16 | | | | 53 |
| B | 5 | 0 | 2 | 98 | | | | 106 |
| C | 37 | 32 | 0 | 17 | | | | 86 |
| D | 26 | 142 | 3 | 0 | | | | 171 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 182 | 34 | 131 | | | | 416 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 313 | 62 | | | | 410 |
| B | 127 | 0 | 119 | 284 | | | | 531 |
| C | 450 | 189 | 0 | 71 | | | | 710 |
| D | 193 | 303 | 92 | 0 | | | | 588 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 770 | 528 | 524 | 417 | | | | 2239 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 282 | 41 | | | | 347 |
| B | 107 | 0 | 100 | 195 | | | | 403 |
| C | 383 | 167 | 0 | 59 | | | | 610 |
| D | 156 | 221 | 81 | 0 | | | | 459 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 646 | 414 | 463 | 295 | | | | 1818 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 23 | 16 | | | | 43 |
| B | 14 | 0 | 15 | 17 | | | | 46 |
| C | 47 | 21 | 0 | 9 | | | | 77 |
| D | 14 | 18 | 9 | 0 | | | | 42 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 43 | 48 | 42 | | | | 207 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 6 | 5 | | | | 18 |
| B | 6 | 0 | 4 | 72 | | | | 82 |
| C | 18 | 1 | 0 | 3 | | | | 21 |
| D | 23 | 63 | 1 | 0 | | | | 88 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 71 | 11 | 80 | | | | 209 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.94 | 0 | 1.96 | 0 | | | | 3.9 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Hill Top Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | rehills Rd EB |
| B | 60036 | 60031 | 60031 | 60036 | ill Top Road |
| C | 60230 | 7454 | 7454 | 60230 | rehills Rd SB |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 123 | 380 | 273 | | | | 776 |
| B | 61 | 0 | 14 | 38 | | | | 113 |
| C | 590 | 50 | 0 | 234 | | | | 874 |
| D | 262 | 18 | 90 | 0 | | | | 370 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 913 | 191 | 484 | 545 | | | | 2133 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 203 | 172 | | | | 435 |
| B | 9 | 0 | 2 | 3 | | | | 14 |
| C | 393 | 38 | 0 | 147 | | | | 578 |
| D | 115 | 4 | 23 | 0 | | | | 142 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 517 | 102 | 228 | 322 | | | | 1169 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 55 | 27 | | | | 91 |
| B | 4 | 0 | 1 | 5 | | | | 10 |
| C | 105 | 5 | 0 | 27 | | | | 137 |
| D | 45 | 0 | 12 | 0 | | | | 57 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 154 | 14 | 68 | 59 | | | | 295 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 122 | 74 | | | | 250 |
| B | 48 | 0 | 11 | 30 | | | | 89 |
| C | 92 | 7 | 0 | 60 | | | | 159 |
| D | 102 | 14 | 55 | 0 | | | | 171 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 242 | 75 | 188 | 164 | | | | 669 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 68 | 392 | 204 | | | | 664 |
| B | 78 | 0 | 27 | 36 | | | | 141 |
| C | 281 | 27 | 0 | 87 | | | | 395 |
| D | 285 | 32 | 73 | 0 | | | | 390 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 644 | 127 | 492 | 327 | | | | 1590 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 212 | 116 | | | | 350 |
| B | 25 | 0 | 13 | 9 | | | | 47 |
| C | 168 | 8 | 0 | 31 | | | | 207 |
| D | 82 | 3 | 21 | 0 | | | | 106 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 275 | 33 | 246 | 156 | | | | 710 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 57 | 29 | | | | 95 |
| B | 13 | 0 | 7 | 5 | | | | 25 |
| C | 36 | 7 | 0 | 13 | | | | 56 |
| D | 47 | 4 | 10 | 0 | | | | 61 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 20 | 74 | 47 | | | | 237 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 123 | 59 | | | | 219 |
| B | 40 | 0 | 7 | 22 | | | | 69 |
| C | 77 | 12 | 0 | 43 | | | | 132 |
| D | 156 | 25 | 42 | 0 | | | | 223 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 273 | 74 | 172 | 124 | | | | 643 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 473 | 169 | | | | 689 |
| B | 78 | 0 | 49 | 23 | | | | 150 |
| C | 312 | 16 | 0 | 42 | | | | 370 |
| D | 371 | 12 | 136 | 0 | | | | 519 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 761 | 75 | 658 | 234 | | | | 1728 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 397 | 118 | | | | 532 |
| B | 55 | 0 | 31 | 16 | | | | 102 |
| C | 219 | 11 | 0 | 21 | | | | 251 |
| D | 272 | 3 | 94 | 0 | | | | 369 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 546 | 31 | 522 | 155 | | | | 1254 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 35 | 10 | | | | 47 |
| B | 3 | 0 | 8 | 1 | | | | 12 |
| C | 35 | 1 | 0 | 3 | | | | 39 |
| D | 33 | 0 | 5 | 0 | | | | 38 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 71 | 3 | 48 | 14 | | | | 136 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 41 | 41 | | | | 110 |
| B | 20 | 0 | 10 | 6 | | | | 36 |
| C | 58 | 4 | 0 | 18 | | | | 80 |
| D | 66 | 9 | 37 | 0 | | | | 112 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 144 | 41 | 88 | 65 | | | | 338 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Pilsworth Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 226 | 335 | | | | | 562 |
| B | 390 | 0 | 439 | | | | | 830 |
| C | 572 | 341 | 0 | | | | | 913 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 963 | 568 | 775 | | | | | 2305 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 176 | 146 | | | | | 321 |
| B | 304 | 0 | 289 | | | | | 593 |
| C | 308 | 210 | 0 | | | | | 518 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 612 | 386 | 434 | | | | | 1433 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 36 | | | | | 61 |
| B | 42 | 0 | 55 | | | | | 97 |
| C | 69 | 85 | 0 | | | | | 154 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 111 | 110 | 91 | | | | | 311 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 154 | | | | | 180 |
| B | 44 | 0 | 96 | | | | | 140 |
| C | 195 | 46 | 0 | | | | | 241 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 239 | 72 | 250 | | | | | 561 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 311 | 345 | | | | | 656 |
| B | 133 | 0 | 319 | | | | | 452 |
| C | 394 | 250 | 0 | | | | | 643 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 527 | 561 | 664 | | | | | 1751 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 195 | 157 | | | | | 352 |
| B | 85 | 0 | 192 | | | | | 277 |
| C | 128 | 147 | 0 | | | | | 274 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 213 | 342 | 349 | | | | | 904 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 46 | 45 | | | | | 92 |
| B | 18 | 0 | 50 | | | | | 68 |
| C | 48 | 48 | 0 | | | | | 96 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 66 | 94 | 96 | | | | | 256 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 69 | 142 | | | | | 211 |
| B | 30 | 0 | 77 | | | | | 107 |
| C | 218 | 55 | 0 | | | | | 273 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 248 | 124 | 219 | | | | | 591 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 386 | 375 | | | | | 761 |
| B | 123 | 0 | 314 | | | | | 437 |
| C | 343 | 417 | 0 | | | | | 760 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 466 | 803 | 689 | | | | | 1958 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 337 | 297 | | | | | 633 |
| B | 106 | 0 | 235 | | | | | 342 |
| C | 187 | 359 | 0 | | | | | 546 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 293 | 696 | 532 | | | | | 1521 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 19 | | | | | 46 |
| B | 4 | 0 | 28 | | | | | 33 |
| C | 28 | 42 | 0 | | | | | 70 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 69 | 47 | | | | | 149 |

MODELLED — HGV

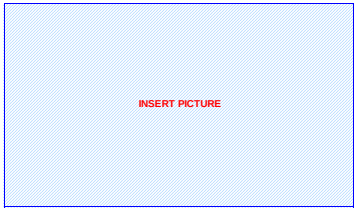
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 59 | | | | | 82 |
| B | 13 | 0 | 50 | | | | | 63 |
| C | 128 | 16 | 0 | | | | | 144 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 141 | 39 | 109 | | | | | 289 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / A58 Bury St




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 499 | 135 | | | | | 634 |
| B | 553 | 0 | 541 | | | | | 1094 |
| C | 240 | 312 | 0 | | | | | 552 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 792 | 811 | 676 | | | | | 2280 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 333 | 107 | | | | | 440 |
| B | 352 | 0 | 351 | | | | | 703 |
| C | 160 | 251 | 0 | | | | | 411 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 512 | 584 | 458 | | | | | 1554 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 16 | | | | | 105 |
| B | 108 | 0 | 53 | | | | | 161 |
| C | 64 | 25 | 0 | | | | | 90 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 172 | 115 | 69 | | | | | 356 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 66 | 13 | | | | | 79 |
| B | 83 | 0 | 118 | | | | | 200 |
| C | 15 | 18 | 0 | | | | | 34 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 98 | 85 | 130 | | | | | 313 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 29 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 28 | 20 | | | | | 57 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 517 | 130 | | | | | 647 |
| B | 490 | 0 | 313 | | | | | 802 |
| C | 146 | 346 | 0 | | | | | 492 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 636 | 863 | 443 | | | | | 1942 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 381 | 88 | | | | | 469 |
| B | 335 | 0 | 198 | | | | | 533 |
| C | 113 | 215 | 0 | | | | | 327 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 448 | 596 | 286 | | | | | 1329 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 79 | 19 | | | | | 98 |
| B | 88 | 0 | 40 | | | | | 127 |
| C | 22 | 42 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 110 | 121 | 58 | | | | | 289 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 23 | | | | | 71 |
| B | 57 | 0 | 56 | | | | | 113 |
| C | 12 | 70 | 0 | | | | | 82 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 69 | 119 | 79 | | | | | 266 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.9 | 27.86 | 19.8 | | | | | 57.56 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 543 | 114 | | | | | 656 |
| B | 560 | 0 | 350 | | | | | 909 |
| C | 221 | 311 | 0 | | | | | 532 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 780 | 854 | 463 | | | | | 2098 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 482 | 93 | | | | | 575 |
| B | 479 | 0 | 283 | | | | | 762 |
| C | 200 | 261 | 0 | | | | | 461 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 679 | 743 | 376 | | | | | 1798 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 11 | | | | | 55 |
| B | 58 | 0 | 28 | | | | | 86 |
| C | 17 | 26 | 0 | | | | | 43 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 70 | 39 | | | | | 185 |

MODELLED — HGV

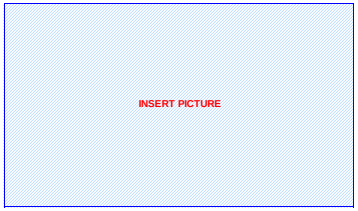
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 10 | | | | | 18 |
| B | 15 | 0 | 19 | | | | | 33 |
| C | 3 | 6 | 0 | | | | | 10 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 18 | 15 | 29 | | | | | 61 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 20 | | | | | 27 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.82 | 25.71 | 19.54 | | | | | 53.07 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / Heywood Distribution Centre




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | Pilsworth Rd NB |
| B | 20430 | 7459 | 7459 | 20430 | ywood Distribution Cer |
| C | 2813 | 7459 | 7459 | 2813 | Pilsworth Rd SB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 210 | 394 | | | | | 604 |
| B | 165 | 0 | 168 | | | | | 333 |
| C | 636 | 326 | 0 | | | | | 963 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 802 | 536 | 562 | | | | | 1900 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 149 | 279 | | | | | 428 |
| B | 32 | 0 | 42 | | | | | 74 |
| C | 459 | 153 | 0 | | | | | 612 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 491 | 302 | 321 | | | | | 1115 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 41 | | | | | 55 |
| B | 29 | 0 | 19 | | | | | 48 |
| C | 79 | 32 | 0 | | | | | 111 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 108 | 45 | 61 | | | | | 214 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 73 | | | | | 121 |
| B | 104 | 0 | 107 | | | | | 210 |
| C | 99 | 141 | 0 | | | | | 239 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 203 | 188 | 180 | | | | | 571 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 118 | 459 | | | | | 576 |
| B | 222 | 0 | 197 | | | | | 419 |
| C | 249 | 278 | 0 | | | | | 527 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 470 | 396 | 656 | | | | | 1522 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 69 | 266 | | | | | 335 |
| B | 90 | 0 | 86 | | | | | 176 |
| C | 143 | 70 | 0 | | | | | 213 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 233 | 139 | 352 | | | | | 724 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 63 | | | | | 86 |
| B | 35 | 0 | 28 | | | | | 63 |
| C | 31 | 35 | 0 | | | | | 66 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 66 | 57 | 92 | | | | | 215 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 129 | | | | | 155 |
| B | 97 | 0 | 82 | | | | | 179 |
| C | 75 | 174 | 0 | | | | | 248 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 172 | 200 | 211 | | | | | 583 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 611 | | | | | 656 |
| B | 211 | 0 | 150 | | | | | 361 |
| C | 297 | 170 | 0 | | | | | 466 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 508 | 215 | 761 | | | | | 1483 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 520 | | | | | 547 |
| B | 164 | 0 | 114 | | | | | 278 |
| C | 234 | 59 | 0 | | | | | 293 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 398 | 86 | 633 | | | | | 1118 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 39 | | | | | 43 |
| B | 15 | 0 | 6 | | | | | 21 |
| C | 19 | 14 | 0 | | | | | 33 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 18 | 46 | | | | | 97 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 51 | | | | | 66 |
| B | 32 | 0 | 31 | | | | | 63 |
| C | 44 | 96 | 0 | | | | | 141 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 77 | 110 | 82 | | | | | 269 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / JPA1.1 & SHDA employment

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | *Pilsworth Rd SB* |
| B | 60027 | 60229 | 60229 | 60027 | *SHDA* |
| C | 60024 | 60229 | 60229 | 60024 | *Pilsworth Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 781 | | | | | 802 |
| B | 12 | 0 | 18 | | | | | 30 |
| C | 592 | 33 | 0 | | | | | 624 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 604 | 53 | 799 | | | | | 1456 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 482 | | | | | 491 |
| B | 3 | 0 | 6 | | | | | 9 |
| C | 426 | 16 | 0 | | | | | 441 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 428 | 24 | 488 | | | | | 941 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 105 | | | | | 108 |
| B | 1 | 0 | 2 | | | | | 4 |
| C | 53 | 3 | 0 | | | | | 57 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 55 | 6 | 108 | | | | | 168 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 193 | | | | | 203 |
| B | 8 | 0 | 10 | | | | | 18 |
| C | 113 | 14 | 0 | | | | | 127 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 23 | 203 | | | | | 347 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 458 | | | | | 470 |
| B | 18 | 0 | 25 | | | | | 43 |
| C | 558 | 27 | 0 | | | | | 585 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 576 | 40 | 483 | | | | | 1099 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 228 | | | | | 233 |
| B | 5 | 0 | 8 | | | | | 14 |
| C | 330 | 7 | 0 | | | | | 337 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 335 | 12 | 236 | | | | | 583 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 64 | | | | | 66 |
| B | 3 | 0 | 4 | | | | | 8 |
| C | 83 | 5 | 0 | | | | | 88 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 86 | 7 | 68 | | | | | 161 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 166 | | | | | 172 |
| B | 9 | 0 | 13 | | | | | 22 |
| C | 146 | 15 | 0 | | | | | 161 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 155 | 20 | 178 | | | | | 354 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 500 | | | | | 508 |
| B | 15 | 0 | 30 | | | | | 45 |
| C | 641 | 14 | 0 | | | | | 655 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 656 | 21 | 530 | | | | | 1207 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 396 | | | | | 398 |
| B | 8 | 0 | 20 | | | | | 29 |
| C | 538 | 6 | 0 | | | | | 544 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 547 | 8 | 416 | | | | | 971 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 33 | | | | | 33 |
| B | 1 | 0 | 2 | | | | | 3 |
| C | 43 | 1 | 0 | | | | | 43 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 43 | 1 | 35 | | | | | 79 |

HGV

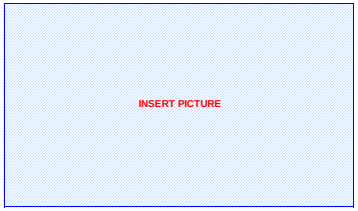
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 72 | | | | | 77 |
| B | 6 | 0 | 7 | | | | | 13 |
| C | 60 | 7 | 0 | | | | | 67 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 66 | 12 | 79 | | | | | 157 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** 3 Arrows (Pilsworth Road / Moss Hall Road - South)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 60241 | 2037 | 2037 | 60241 | *Link Road* |
| D | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 155 | 631 | 13 | | | | 799 |
| B | 33 | 0 | 379 | 2 | | | | 413 |
| C | 588 | 936 | 0 | 18 | | | | 1541 |
| D | 3 | 1 | 14 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 624 | 1092 | 1024 | 33 | | | | 2772 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 93 | 387 | 8 | | | | 488 |
| B | 11 | 0 | 165 | 1 | | | | 178 |
| C | 429 | 570 | 0 | 5 | | | | 1004 |
| D | 1 | 1 | 1 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 441 | 664 | 553 | 14 | | | | 1673 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 89 | 2 | | | | 108 |
| B | 6 | 0 | 76 | 0 | | | | 83 |
| C | 50 | 113 | 0 | 5 | | | | 167 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 130 | 165 | 6 | | | | 358 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 155 | 4 | | | | 203 |
| B | 15 | 0 | 137 | 0 | | | | 153 |
| C | 109 | 254 | 0 | 8 | | | | 371 |
| D | 2 | 0 | 13 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 127 | 298 | 305 | 13 | | | | 742 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 92 | 386 | 5 | | | | 483 |
| B | 81 | 0 | 589 | 1 | | | | 671 |
| C | 492 | 524 | 0 | 23 | | | | 1039 |
| D | 12 | 2 | 18 | 0 | | | | 31 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 585 | 617 | 992 | 29 | | | | 2224 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 194 | 3 | | | | 236 |
| B | 34 | 0 | 352 | 1 | | | | 386 |
| C | 300 | 283 | 0 | 2 | | | | 585 |
| D | 3 | 1 | 5 | 0 | | | | 9 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 337 | 323 | 551 | 5 | | | | 1216 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 47 | 2 | | | | 68 |
| B | 17 | 0 | 112 | 1 | | | | 129 |
| C | 69 | 114 | 0 | 2 | | | | 185 |
| D | 2 | 0 | 1 | 0 | | | | 4 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 88 | 134 | 160 | 5 | | | | 386 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 145 | 0 | | | | 178 |
| B | 31 | 0 | 125 | 0 | | | | 156 |
| C | 123 | 126 | 0 | 19 | | | | 268 |
| D | 6 | 0 | 12 | 0 | | | | 19 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 161 | 160 | 281 | 19 | | | | 621 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 481 | 14 | | | | 530 |
| B | 69 | 0 | 809 | 3 | | | | 881 |
| C | 580 | 438 | 0 | 18 | | | | 1035 |
| D | 6 | 1 | 12 | 0 | | | | 20 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 655 | 474 | 1302 | 35 | | | | 2466 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 389 | 9 | | | | 416 |
| B | 46 | 0 | 643 | 3 | | | | 692 |
| C | 494 | 364 | 0 | 12 | | | | 870 |
| D | 4 | 1 | 9 | 0 | | | | 14 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 544 | 384 | 1041 | 23 | | | | 1992 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 31 | 0 | | | | 35 |
| B | 3 | 0 | 66 | 0 | | | | 69 |
| C | 39 | 23 | 0 | 1 | | | | 63 |
| D | 2 | 0 | 2 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 43 | 27 | 99 | 1 | | | | 170 |

MODELLED — HGV

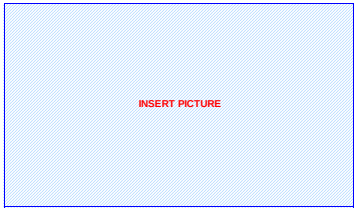
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 61 | 5 | | | | 79 |
| B | 20 | 0 | 100 | 0 | | | | 120 |
| C | 47 | 51 | 0 | 5 | | | | 102 |
| D | 0 | 0 | 2 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 67 | 64 | 162 | 11 | | | | 304 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Fowler Welch (Pilsworth Road / Moss Hall Road - North)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60241 | 60246 | 60246 | 60241 | *Moss Hall Rd NB* |
| B | 60000 | 60213 | 60213 | 60000 | *Pilsworth Road* |
| C | 60228 | 2038 | 2038 | 60228 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 828 | 195 | | | | | 1023 |
| B | 1143 | 0 | 142 | | | | | 1285 |
| C | 400 | 111 | 0 | | | | | 511 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1543 | 939 | 337 | | | | | 2819 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 498 | 55 | | | | | 553 |
| B | 742 | 0 | 106 | | | | | 848 |
| C | 263 | 85 | 0 | | | | | 348 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1005 | 583 | 161 | | | | | 1749 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 116 | 49 | | | | | 165 |
| B | 98 | 0 | 21 | | | | | 119 |
| C | 69 | 18 | 0 | | | | | 87 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 167 | 134 | 70 | | | | | 371 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 214 | 91 | | | | | 305 |
| B | 303 | 0 | 15 | | | | | 318 |
| C | 68 | 8 | 0 | | | | | 76 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 371 | 222 | 106 | | | | | 699 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 630 | 360 | | | | | 990 |
| B | 917 | 0 | 98 | | | | | 1015 |
| C | 120 | 105 | 0 | | | | | 225 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1037 | 735 | 458 | | | | | 2230 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 337 | 212 | | | | | 549 |
| B | 561 | 0 | 78 | | | | | 639 |
| C | 23 | 85 | 0 | | | | | 108 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 584 | 422 | 290 | | | | | 1296 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 94 | 66 | | | | | 160 |
| B | 140 | 0 | 13 | | | | | 153 |
| C | 45 | 16 | 0 | | | | | 61 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 185 | 110 | 79 | | | | | 374 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 199 | 82 | | | | | 281 |
| B | 216 | 0 | 7 | | | | | 223 |
| C | 52 | 4 | 0 | | | | | 56 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 268 | 203 | 89 | | | | | 560 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 816 | 485 | | | | | 1301 |
| B | 950 | 0 | 138 | | | | | 1088 |
| C | 86 | 137 | 0 | | | | | 223 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1036 | 953 | 623 | | | | | 2612 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 640 | 400 | | | | | 1040 |
| B | 830 | 0 | 125 | | | | | 955 |
| C | 41 | 123 | 0 | | | | | 164 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 871 | 763 | 525 | | | | | 2159 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 39 | | | | | 99 |
| B | 46 | 0 | 13 | | | | | 59 |
| C | 17 | 13 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 63 | 73 | 52 | | | | | 188 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 116 | 46 | | | | | 162 |
| B | 74 | 0 | 0 | | | | | 74 |
| C | 28 | 1 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 102 | 117 | 46 | | | | | 265 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | *TC 11 - Pilsworth Rd E* |
| B | 3001 | 60238 | 60239 | 3000 | *JTC 11 - M66 SB Off* |
| C | 60213 | 60000 | 60000 | 60213 | *TC 11 - Pilsworth Rd W* |
| D | 60236 | 4918 | 60240 | 2998 | *JTC 11 - M66 NB Off* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 373 | 577 | 209 | | | | 1159 |
| B | 406 | 0 | 311 | 0 | | | | 717 |
| C | 383 | 225 | 0 | 331 | | | | 939 |
| D | 745 | 0 | 393 | 0 | | | | 1138 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1534 | 598 | 1281 | 540 | | | | 3953 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 265 | 446 | 136 | | | | 847 |
| B | 322 | 0 | 163 | 0 | | | | 485 |
| C | 288 | 166 | 0 | 129 | | | | 583 |
| D | 620 | 0 | 236 | 0 | | | | 856 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1230 | 431 | 845 | 265 | | | | 2771 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 56 | 67 | 55 | | | | 178 |
| B | 47 | 0 | 13 | 0 | | | | 60 |
| C | 60 | 40 | 0 | 35 | | | | 135 |
| D | 71 | 0 | 38 | 0 | | | | 109 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 178 | 96 | 118 | 90 | | | | 482 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 64 | 18 | | | | 134 |
| B | 37 | 0 | 135 | 0 | | | | 172 |
| C | 35 | 19 | 0 | 167 | | | | 221 |
| D | 54 | 0 | 119 | 0 | | | | 173 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 126 | 71 | 318 | 185 | | | | 700 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 454 | 465 | 200 | | | | 1119 |
| B | 335 | 0 | 281 | 0 | | | | 616 |
| C | 298 | 166 | 0 | 272 | | | | 736 |
| D | 409 | 0 | 270 | 0 | | | | 679 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1042 | 620 | 1016 | 472 | | | | 3150 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 345 | 299 | 176 | | | | 820 |
| B | 248 | 0 | 213 | 0 | | | | 461 |
| C | 219 | 117 | 0 | 86 | | | | 422 |
| D | 295 | 0 | 128 | 0 | | | | 423 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 762 | 462 | 640 | 262 | | | | 2126 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 69 | 23 | | | | 154 |
| B | 45 | 0 | 30 | 0 | | | | 75 |
| C | 42 | 23 | 0 | 46 | | | | 111 |
| D | 56 | 0 | 54 | 0 | | | | 110 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 143 | 85 | 153 | 69 | | | | 450 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 97 | 1 | | | | 145 |
| B | 42 | 0 | 38 | 0 | | | | 80 |
| C | 37 | 26 | 0 | 140 | | | | 203 |
| D | 58 | 0 | 88 | 0 | | | | 146 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 137 | 73 | 223 | 141 | | | | 574 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 539 | 542 | 191 | | | | 1272 |
| B | 298 | 0 | 287 | 0 | | | | 585 |
| C | 405 | 195 | 0 | 352 | | | | 952 |
| D | 519 | 0 | 260 | 0 | | | | 779 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1222 | 734 | 1089 | 543 | | | | 3588 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 491 | 497 | 169 | | | | 1157 |
| B | 260 | 0 | 259 | 0 | | | | 519 |
| C | 347 | 173 | 0 | 243 | | | | 763 |
| D | 390 | 0 | 199 | 0 | | | | 589 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 997 | 664 | 955 | 412 | | | | 3028 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 22 | 20 | | | | 75 |
| B | 29 | 0 | 13 | 0 | | | | 42 |
| C | 29 | 19 | 0 | 25 | | | | 73 |
| D | 64 | 0 | 25 | 0 | | | | 89 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 52 | 60 | 45 | | | | 279 |

MODELLED — HGV

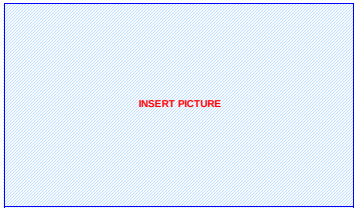
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 23 | 2 | | | | 40 |
| B | 9 | 0 | 15 | 0 | | | | 24 |
| C | 29 | 3 | 0 | 84 | | | | 116 |
| D | 65 | 0 | 36 | 0 | | | | 101 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 103 | 18 | 74 | 86 | | | | 281 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N12 - M66 NB Of |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 147 | 111 | 442 | 1336 | 55 | | 2091 |
| B | 286 | 0 | 25 | 184 | 0 | 37 | | 532 |
| C | 63 | 3 | 0 | 11 | 21 | 0 | | 98 |
| D | 654 | 223 | 27 | 0 | 321 | 73 | | 1298 |
| E | 1553 | 0 | 67 | 132 | 0 | 106 | | 1858 |
| F | 40 | 5 | 1 | 40 | 31 | 0 | | 117 |
| G | | | | | | | | |
| TOTAL | 2596 | 378 | 231 | 809 | 1709 | 271 | | 5994 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 113 | 46 | 316 | 1019 | 51 | | 1545 |
| B | 266 | 0 | 23 | 129 | 0 | 31 | | 449 |
| C | 11 | 1 | 0 | 4 | 7 | 0 | | 23 |
| D | 513 | 154 | 22 | 0 | 226 | 40 | | 955 |
| E | 1197 | 0 | 53 | 70 | 0 | 97 | | 1417 |
| F | 32 | 3 | 1 | 23 | 23 | 0 | | 82 |
| G | | | | | | | | |
| TOTAL | 2019 | 271 | 145 | 542 | 1275 | 219 | | 4471 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 33 | 71 | 199 | 3 | | 334 |
| B | 16 | 0 | 2 | 29 | 0 | 1 | | 48 |
| C | 37 | 2 | 0 | 5 | 9 | 0 | | 53 |
| D | 55 | 33 | 3 | 0 | 52 | 12 | | 155 |
| E | 178 | 0 | 7 | 39 | 0 | 6 | | 230 |
| F | 3 | 1 | 0 | 5 | 5 | 0 | | 14 |
| G | | | | | | | | |
| TOTAL | 289 | 64 | 45 | 149 | 265 | 22 | | 834 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 32 | 55 | 118 | 1 | | 212 |
| B | 4 | 0 | 0 | 26 | 0 | 5 | | 35 |
| C | 15 | 0 | 0 | 2 | 5 | 0 | | 22 |
| D | 86 | 36 | 2 | 0 | 43 | 21 | | 188 |
| E | 178 | 0 | 7 | 23 | 0 | 3 | | 211 |
| F | 5 | 1 | 0 | 12 | 3 | 0 | | 21 |
| G | | | | | | | | |
| TOTAL | 288 | 43 | 41 | 118 | 169 | 30 | | 689 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 166 | 116 | 304 | 1322 | 32 | | 1940 |
| B | 206 | 0 | 22 | 179 | 0 | 12 | | 419 |
| C | 83 | 13 | 0 | 15 | 36 | 1 | | 148 |
| D | 565 | 158 | 35 | 0 | 113 | 63 | | 934 |
| E | 1277 | 0 | 50 | 206 | 0 | 49 | | 1582 |
| F | 47 | 14 | 2 | 46 | 47 | 0 | | 156 |
| G | | | | | | | | |
| TOTAL | 2178 | 351 | 225 | 750 | 1518 | 157 | | 5179 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 119 | 58 | 194 | 976 | 27 | | 1374 |
| B | 168 | 0 | 17 | 123 | 0 | 9 | | 317 |
| C | 29 | 8 | 0 | 9 | 24 | 1 | | 71 |
| D | 403 | 98 | 23 | 0 | 54 | 30 | | 608 |
| E | 917 | 0 | 38 | 120 | 0 | 37 | | 1112 |
| F | 42 | 11 | 2 | 23 | 40 | 0 | | 118 |
| G | | | | | | | | |
| TOTAL | 1559 | 236 | 138 | 469 | 1094 | 104 | | 3600 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 38 | 57 | 194 | 3 | | 318 |
| B | 21 | 0 | 3 | 26 | 0 | 1 | | 51 |
| C | 44 | 3 | 0 | 5 | 7 | 0 | | 59 |
| D | 85 | 35 | 7 | 0 | 29 | 14 | | 170 |
| E | 208 | 0 | 8 | 48 | 0 | 5 | | 269 |
| F | 4 | 2 | 0 | 10 | 4 | 0 | | 20 |
| G | | | | | | | | |
| TOTAL | 362 | 66 | 56 | 146 | 234 | 23 | | 887 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 20 | 53 | 152 | 2 | | 248 |
| B | 17 | 0 | 2 | 30 | 0 | 2 | | 51 |
| C | 10 | 2 | 0 | 1 | 5 | 0 | | 18 |
| D | 77 | 25 | 5 | 0 | 30 | 19 | | 156 |
| E | 152 | 0 | 4 | 38 | 0 | 7 | | 201 |
| F | 1 | 1 | 0 | 13 | 3 | 0 | | 18 |
| G | | | | | | | | |
| TOTAL | 257 | 49 | 31 | 135 | 190 | 30 | | 692 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 248 | 35 | 427 | 1421 | 42 | | 2173 |
| B | 285 | 0 | 6 | 157 | 0 | 14 | | 462 |
| C | 53 | 13 | 0 | 18 | 50 | 1 | | 135 |
| D | 720 | 175 | 14 | 0 | 202 | 66 | | 1177 |
| E | 1425 | 0 | 19 | 311 | 0 | 62 | | 1817 |
| F | 45 | 20 | 0 | 55 | 116 | 0 | | 236 |
| G | | | | | | | | |
| TOTAL | 2528 | 456 | 74 | 968 | 1789 | 185 | | 6000 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 233 | 18 | 373 | 1306 | 40 | | 1970 |
| B | 265 | 0 | 5 | 138 | 0 | 13 | | 421 |
| C | 24 | 12 | 0 | 16 | 47 | 1 | | 100 |
| D | 621 | 153 | 12 | 0 | 166 | 55 | | 1007 |
| E | 1250 | 0 | 15 | 262 | 0 | 50 | | 1577 |
| F | 41 | 19 | 0 | 45 | 113 | 0 | | 218 |
| G | | | | | | | | |
| TOTAL | 2201 | 417 | 50 | 834 | 1632 | 159 | | 5293 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 15 | 33 | 91 | 2 | | 155 |
| B | 17 | 0 | 1 | 17 | 0 | 1 | | 36 |
| C | 25 | 1 | 0 | 2 | 3 | 0 | | 31 |
| D | 54 | 19 | 2 | 0 | 24 | 10 | | 109 |
| E | 134 | 0 | 4 | 34 | 0 | 5 | | 177 |
| F | 3 | 1 | 0 | 4 | 2 | 0 | | 10 |
| G | | | | | | | | |
| TOTAL | 233 | 35 | 22 | 90 | 120 | 18 | | 518 |

MODELLED — HGV

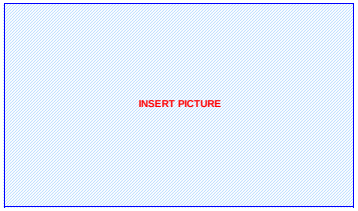
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 21 | 24 | 0 | | 48 |
| B | 3 | 0 | 0 | 2 | 0 | 0 | | 5 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 45 | 3 | 0 | 0 | 12 | 1 | | 61 |
| E | 41 | 0 | 0 | 15 | 0 | 7 | | 63 |
| F | 1 | 0 | 0 | 6 | 1 | 0 | | 8 |
| G | | | | | | | | |
| TOTAL | 94 | 4 | 2 | 44 | 37 | 8 | | 189 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | Heywood Old Road NE |
| B | 60074 | 2478 | 2478 | 60074 | Whittle Lane |
| C | 4730 | 2478 | 2478 | 4730 | Heywood Old Road SE |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 183 | 494 | | | | | 676 |
| B | 8 | 0 | 14 | | | | | 23 |
| C | 462 | 163 | 0 | | | | | 625 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 470 | 345 | 508 | | | | | 1324 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 152 | 412 | | | | | 563 |
| B | 5 | 0 | 8 | | | | | 13 |
| C | 377 | 135 | 0 | | | | | 512 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 382 | 287 | 420 | | | | | 1089 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 65 | | | | | 96 |
| B | 3 | 0 | 6 | | | | | 9 |
| C | 71 | 27 | 0 | | | | | 98 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 58 | 71 | | | | | 204 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 15 | | | | | 15 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 14 | 0 | 0 | | | | | 14 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 14 | 0 | 15 | | | | | 29 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 545 | | | | | 596 |
| B | 22 | 0 | 87 | | | | | 109 |
| C | 337 | 65 | 0 | | | | | 401 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 359 | 116 | 633 | | | | | 1107 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 382 | | | | | 412 |
| B | 18 | 0 | 58 | | | | | 76 |
| C | 266 | 31 | 0 | | | | | 297 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 284 | 61 | 440 | | | | | 785 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 78 | | | | | 99 |
| B | 4 | 0 | 29 | | | | | 33 |
| C | 41 | 34 | 0 | | | | | 74 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 45 | 55 | 107 | | | | | 207 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 83 | | | | | 83 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 0 | 83 | | | | | 113 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.98 | | | | | 1.98 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 765 | | | | | 782 |
| B | 40 | 0 | 137 | | | | | 176 |
| C | 504 | 62 | 0 | | | | | 565 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 543 | 79 | 902 | | | | | 1524 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 652 | | | | | 668 |
| B | 38 | 0 | 120 | | | | | 157 |
| C | 447 | 55 | 0 | | | | | 502 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 485 | 70 | 772 | | | | | 1327 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 92 | | | | | 94 |
| B | 2 | 0 | 17 | | | | | 19 |
| C | 51 | 7 | 0 | | | | | 58 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 9 | 109 | | | | | 171 |

MODELLED — HGV

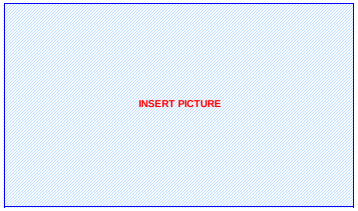
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 19 | | | | | 19 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 6 | 0 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 6 | 0 | 19 | | | | | 25 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.91 | | | | | 1.91 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Heywood Old Road / Langley Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | Heywood Old Road SB |
| B | 15238 | 4730 | 4730 | 15238 | Langley Lane |
| C | 2478 | 4730 | 4730 | 2478 | Heywood Old Road NB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 94 | 290 | | | | | 384 |
| B | 140 | 0 | 335 | | | | | 475 |
| C | 369 | 139 | 0 | | | | | 508 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 509 | 233 | 625 | | | | | 1367 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 80 | 238 | | | | | 317 |
| B | 130 | 0 | 275 | | | | | 405 |
| C | 306 | 114 | 0 | | | | | 420 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 436 | 194 | 512 | | | | | 1142 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 47 | | | | | 53 |
| B | 6 | 0 | 52 | | | | | 57 |
| C | 49 | 23 | 0 | | | | | 71 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 30 | 98 | | | | | 182 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 6 | | | | | 11 |
| B | 5 | 0 | 8 | | | | | 13 |
| C | 15 | 0 | 0 | | | | | 15 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 6 | 14 | | | | | 39 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 46 | 223 | | | | | 270 |
| B | 72 | 0 | 178 | | | | | 250 |
| C | 443 | 190 | 0 | | | | | 633 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 515 | 236 | 401 | | | | | 1153 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 165 | | | | | 205 |
| B | 58 | 0 | 133 | | | | | 191 |
| C | 303 | 138 | 0 | | | | | 440 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 361 | 179 | 297 | | | | | 837 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 30 | | | | | 33 |
| B | 6 | 0 | 44 | | | | | 51 |
| C | 65 | 42 | 0 | | | | | 107 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 71 | 45 | 74 | | | | | 191 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 29 | | | | | 29 |
| B | 6 | 0 | 1 | | | | | 7 |
| C | 76 | 7 | 0 | | | | | 83 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 8 | 30 | | | | | 119 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.98 | 0 | | | | | 5.98 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 312 | | | | | 364 |
| B | 81 | 0 | 254 | | | | | 335 |
| C | 573 | 329 | 0 | | | | | 902 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 654 | 381 | 566 | | | | | 1601 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 46 | 279 | | | | | 325 |
| B | 75 | 0 | 223 | | | | | 297 |
| C | 491 | 281 | 0 | | | | | 772 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 566 | 327 | 502 | | | | | 1394 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 27 | | | | | 30 |
| B | 4 | 0 | 31 | | | | | 35 |
| C | 64 | 45 | 0 | | | | | 109 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 48 | 58 | | | | | 174 |

HGV

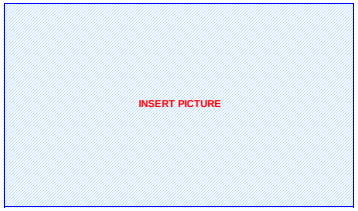
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 6 | | | | | 7 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 17 | 1 | 0 | | | | | 19 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 18 | 2 | 6 | | | | | 27 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.97 | 3.88 | 0 | | | | | 5.85 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Langley Lane / A6046 Hollin Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 148 | 878 | | | | | 1026 |
| B | 113 | 0 | 5 | | | | | 118 |
| C | 721 | 7 | 0 | | | | | 728 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 834 | 155 | 883 | | | | | 1873 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 626 | | | | | 715 |
| B | 84 | 0 | 4 | | | | | 89 |
| C | 397 | 7 | 0 | | | | | 404 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 481 | 96 | 630 | | | | | 1207 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 162 | | | | | 212 |
| B | 25 | 0 | 0 | | | | | 25 |
| C | 169 | 1 | 0 | | | | | 169 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 193 | 51 | 162 | | | | | 406 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 71 | | | | | 80 |
| B | 0 | 0 | 0 | | | | | 1 |
| C | 126 | 0 | 0 | | | | | 126 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 127 | 8 | 72 | | | | | 207 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 19 | | | | | 19 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 0 | 19 | | | | | 53 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 104 | 855 | | | | | 959 |
| B | 106 | 0 | 6 | | | | | 112 |
| C | 635 | 16 | 0 | | | | | 651 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 741 | 121 | 861 | | | | | 1722 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 56 | 510 | | | | | 566 |
| B | 58 | 0 | 6 | | | | | 64 |
| C | 419 | 16 | 0 | | | | | 435 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 477 | 72 | 515 | | | | | 1065 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 157 | | | | | 202 |
| B | 39 | 0 | 0 | | | | | 39 |
| C | 103 | 0 | 0 | | | | | 103 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 142 | 45 | 157 | | | | | 344 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 168 | | | | | 169 |
| B | 5 | 0 | 0 | | | | | 5 |
| C | 89 | 0 | 0 | | | | | 89 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 1 | 168 | | | | | 264 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.74 | 1.99 | 19.92 | | | | | 49.65 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 187 | 891 | | | | | 1078 |
| B | 99 | 0 | 5 | | | | | 104 |
| C | 754 | 52 | 0 | | | | | 806 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 853 | 239 | 896 | | | | | 1989 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 155 | 725 | | | | | 880 |
| B | 62 | 0 | 5 | | | | | 67 |
| C | 602 | 51 | 0 | | | | | 654 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 665 | 206 | 730 | | | | | 1601 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 95 | | | | | 125 |
| B | 32 | 0 | 0 | | | | | 32 |
| C | 87 | 1 | 0 | | | | | 88 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 119 | 31 | 95 | | | | | 245 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 43 | | | | | 44 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 41 | 0 | 0 | | | | | 42 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 43 | 0 | 44 | | | | | 87 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 27 | | | | | 29 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 23 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.22 | 1.95 | 27.32 | | | | | 56.49 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Coronation Avenue

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 109 | 355 | | | | | 465 |
| B | 359 | 0 | 15 | | | | | 374 |
| C | 527 | 225 | 0 | | | | | 752 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 886 | 334 | 371 | | | | | 1591 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 266 | | | | | 266 |
| B | 249 | 0 | 4 | | | | | 253 |
| C | 453 | 153 | 0 | | | | | 605 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 702 | 153 | 271 | | | | | 1125 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 68 | | | | | 68 |
| B | 27 | 0 | 8 | | | | | 35 |
| C | 35 | 61 | 0 | | | | | 96 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 61 | 61 | 76 | | | | | 198 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 80 | 17 | | | | | 97 |
| B | 64 | 0 | 3 | | | | | 67 |
| C | 40 | 11 | 0 | | | | | 51 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 91 | 20 | | | | | 215 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 4 | | | | | 33 |
| B | 19 | 0 | 0 | | | | | 19 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 29 | 4 | | | | | 52 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 97 | 300 | | | | | 397 |
| B | 220 | 0 | 26 | | | | | 245 |
| C | 495 | 101 | 0 | | | | | 595 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 714 | 197 | 326 | | | | | 1237 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 198 | | | | | 198 |
| B | 106 | 0 | 6 | | | | | 112 |
| C | 333 | 66 | 0 | | | | | 399 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 439 | 66 | 204 | | | | | 710 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 50 | | | | | 50 |
| B | 2 | 0 | 7 | | | | | 9 |
| C | 100 | 28 | 0 | | | | | 127 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 102 | 28 | 57 | | | | | 187 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 46 | | | | | 119 |
| B | 91 | 0 | 13 | | | | | 104 |
| C | 60 | 6 | 0 | | | | | 67 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 152 | 79 | 59 | | | | | 289 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.87 | 23.81 | 5.95 | | | | | 51.63 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 372 | | | | | 423 |
| B | 299 | 0 | 24 | | | | | 323 |
| C | 542 | 120 | 0 | | | | | 662 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 841 | 171 | 396 | | | | | 1408 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 316 | | | | | 316 |
| B | 239 | 0 | 8 | | | | | 247 |
| C | 449 | 101 | 0 | | | | | 550 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 688 | 101 | 324 | | | | | 1113 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 32 | | | | | 32 |
| B | 2 | 0 | 15 | | | | | 17 |
| C | 49 | 18 | 0 | | | | | 67 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 51 | 18 | 47 | | | | | 116 |

MODELLED — HGV

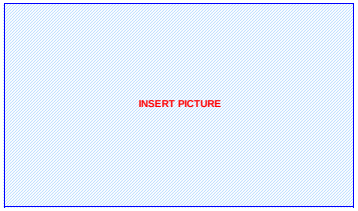
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 21 | | | | | 48 |
| B | 31 | 0 | 1 | | | | | 32 |
| C | 42 | 1 | 0 | | | | | 43 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 73 | 29 | 22 | | | | | 124 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 4 | | | | | 27 |
| B | 27 | 0 | 0 | | | | | 27 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.01 | 23.43 | 3.9 | | | | | 56.34 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Hollins Brow / Hollins Lane**




***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 391 | 494 | | | | | 886 |
| B | 289 | 0 | 48 | | | | | 337 |
| C | 809 | 54 | 0 | | | | | 863 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1098 | 445 | 543 | | | | | 2086 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 333 | 411 | | | | | 744 |
| B | 219 | 0 | 38 | | | | | 256 |
| C | 668 | 38 | 0 | | | | | 707 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 887 | 372 | 448 | | | | | 1707 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 56 | | | | | 105 |
| B | 46 | 0 | 4 | | | | | 50 |
| C | 86 | 8 | 0 | | | | | 94 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 132 | 57 | 60 | | | | | 249 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 28 | | | | | 33 |
| B | 21 | 0 | 0 | | | | | 21 |
| C | 54 | 2 | 0 | | | | | 56 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 7 | 28 | | | | | 110 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 244 | 524 | | | | | 767 |
| B | 202 | 0 | 42 | | | | | 244 |
| C | 655 | 48 | 0 | | | | | 703 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 857 | 292 | 566 | | | | | 1715 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 206 | 388 | | | | | 593 |
| B | 154 | 0 | 28 | | | | | 182 |
| C | 490 | 33 | 0 | | | | | 523 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 644 | 239 | 416 | | | | | 1298 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 79 | | | | | 109 |
| B | 32 | 0 | 8 | | | | | 40 |
| C | 98 | 9 | 0 | | | | | 107 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 130 | 39 | 87 | | | | | 256 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 57 | | | | | 63 |
| B | 12 | 0 | 0 | | | | | 13 |
| C | 67 | 0 | 0 | | | | | 68 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 79 | 7 | 57 | | | | | 143 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 3.99 | 7.96 | 5.99 | | | | | 17.94 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 387 | 573 | | | | | 959 |
| B | 177 | 0 | 40 | | | | | 217 |
| C | 687 | 54 | 0 | | | | | 740 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 863 | 440 | 612 | | | | | 1916 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 339 | 502 | | | | | 842 |
| B | 149 | 0 | 29 | | | | | 178 |
| C | 619 | 40 | 0 | | | | | 660 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 768 | 380 | 531 | | | | | 1679 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 50 | | | | | 90 |
| B | 19 | 0 | 5 | | | | | 24 |
| C | 45 | 7 | 0 | | | | | 52 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 63 | 47 | 55 | | | | | 165 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 20 | | | | | 24 |
| B | 7 | 0 | 0 | | | | | 7 |
| C | 23 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 4 | 21 | | | | | 54 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 9.82 | 5.93 | | | | | 17.73 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / A56 Manchester Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 678 | 628 | | | | | 1306 |
| B | 474 | 0 | 69 | | | | | 542 |
| C | 937 | 185 | 0 | | | | | 1122 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1410 | 863 | 697 | | | | | 2970 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 566 | 500 | | | | | 1067 |
| B | 395 | 0 | 53 | | | | | 448 |
| C | 813 | 140 | 0 | | | | | 954 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1208 | 707 | 554 | | | | | 2468 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 65 | 72 | | | | | 137 |
| B | 53 | 0 | 8 | | | | | 60 |
| C | 73 | 29 | 0 | | | | | 102 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 126 | 94 | 79 | | | | | 299 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 36 | | | | | 77 |
| B | 20 | 0 | 8 | | | | | 28 |
| C | 31 | 16 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 51 | 56 | 44 | | | | | 151 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 6 | 20 | | | | | 51 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 475 | 678 | | | | | 1153 |
| B | 422 | 0 | 144 | | | | | 566 |
| C | 745 | 228 | 0 | | | | | 973 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1167 | 703 | 822 | | | | | 2692 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 359 | 535 | | | | | 894 |
| B | 326 | 0 | 90 | | | | | 416 |
| C | 584 | 164 | 0 | | | | | 749 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 910 | 523 | 625 | | | | | 2058 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 85 | | | | | 156 |
| B | 57 | 0 | 30 | | | | | 87 |
| C | 102 | 36 | 0 | | | | | 138 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 159 | 107 | 115 | | | | | 381 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 38 | | | | | 78 |
| B | 33 | 0 | 24 | | | | | 57 |
| C | 36 | 28 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 69 | 68 | 62 | | | | | 200 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.88 | 5.98 | 19.93 | | | | | 53.79 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 605 | 709 | | | | | 1314 |
| B | 509 | 0 | 103 | | | | | 612 |
| C | 874 | 135 | 0 | | | | | 1009 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1383 | 740 | 812 | | | | | 2935 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 549 | 616 | | | | | 1165 |
| B | 439 | 0 | 92 | | | | | 531 |
| C | 767 | 111 | 0 | | | | | 879 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1207 | 660 | 708 | | | | | 2575 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 63 | | | | | 99 |
| B | 46 | 0 | 9 | | | | | 55 |
| C | 74 | 16 | 0 | | | | | 90 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 120 | 52 | 72 | | | | | 244 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 10 | | | | | 24 |
| B | 18 | 0 | 2 | | | | | 21 |
| C | 13 | 8 | 0 | | | | | 21 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 23 | 12 | | | | | 66 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 25.37 | 5.96 | 19.87 | | | | | 51.2 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 26859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1107 | 3455 | 869 | | | | 5431 |
| B | 618 | 0 | 1152 | 4875 | | | | 6645 |
| C | 3438 | 476 | 0 | 1219 | | | | 5133 |
| D | 1139 | 5378 | 2311 | 0 | | | | 8828 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5195 | 6961 | 6918 | 6963 | | | | 26037 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 880 | 2331 | 514 | | | | 3725 |
| B | 567 | 0 | 789 | 2452 | | | | 3808 |
| C | 2370 | 331 | 0 | 660 | | | | 3361 |
| D | 624 | 2579 | 1340 | 0 | | | | 4543 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3561 | 3790 | 4460 | 3626 | | | | 15437 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 174 | 712 | 139 | | | | 1025 |
| B | 42 | 0 | 123 | 877 | | | | 1042 |
| C | 520 | 74 | 0 | 391 | | | | 985 |
| D | 335 | 1000 | 554 | 0 | | | | 1889 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 897 | 1248 | 1389 | 1407 | | | | 4941 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 412 | 216 | | | | 681 |
| B | 9 | 0 | 240 | 1546 | | | | 1795 |
| C | 548 | 71 | 0 | 168 | | | | 787 |
| D | 180 | 1799 | 417 | 0 | | | | 2396 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 737 | 1923 | 1069 | 1930 | | | | 5659 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 843 | 1897 | 901 | | | | 3641 |
| B | 500 | 0 | 720 | 5414 | | | | 6634 |
| C | 2744 | 330 | 0 | 879 | | | | 3953 |
| D | 1047 | 5415 | 2108 | 0 | | | | 8570 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4291 | 6588 | 4725 | 7194 | | | | 22798 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 669 | 1164 | 393 | | | | 2226 |
| B | 487 | 0 | 492 | 2596 | | | | 3575 |
| C | 1800 | 182 | 0 | 391 | | | | 2373 |
| D | 412 | 2404 | 1099 | 0 | | | | 3915 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2699 | 3255 | 2755 | 3380 | | | | 12089 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 123 | 422 | 216 | | | | 761 |
| B | 13 | 0 | 113 | 1115 | | | | 1241 |
| C | 512 | 61 | 0 | 255 | | | | 828 |
| D | 268 | 1021 | 481 | 0 | | | | 1770 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 793 | 1205 | 1016 | 1586 | | | | 4600 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 311 | 292 | | | | 654 |
| B | 0 | 0 | 115 | 1703 | | | | 1818 |
| C | 432 | 87 | 0 | 233 | | | | 752 |
| D | 367 | 1990 | 528 | 0 | | | | 2885 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 799 | 2128 | 954 | 2228 | | | | 6109 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 952 | 2692 | 898 | | | | 4542 |
| B | 367 | 0 | 1094 | 5610 | | | | 7071 |
| C | 3911 | 418 | 0 | 898 | | | | 5227 |
| D | 1385 | 5232 | 2454 | 0 | | | | 9071 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5663 | 6602 | 6240 | 7406 | | | | 25911 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 866 | 2250 | 565 | | | | 3681 |
| B | 350 | 0 | 1015 | 3709 | | | | 5074 |
| C | 3159 | 309 | 0 | 608 | | | | 4076 |
| D | 984 | 3495 | 1738 | 0 | | | | 6217 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4493 | 4670 | 5003 | 4882 | | | | 19048 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 83 | 348 | 166 | | | | 597 |
| B | 17 | 0 | 54 | 782 | | | | 853 |
| C | 501 | 74 | 0 | 249 | | | | 824 |
| D | 243 | 728 | 441 | 0 | | | | 1412 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 761 | 885 | 843 | 1197 | | | | 3686 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 94 | 167 | | | | 264 |
| B | 0 | 0 | 25 | 1119 | | | | 1144 |
| C | 251 | 35 | 0 | 41 | | | | 327 |
| D | 158 | 1009 | 275 | 0 | | | | 1442 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 409 | 1047 | 394 | 1327 | | | | 3177 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | JTC 20 - A627 SB |
| B | 2727 | 2724 | 2723 | 2725 | JTC 20 - M62 WB |
| C | 2768 | 4932 | 4929 | 2767 | JTC 20 - A627 NB |
| D | 2719 | 2721 | 2722 | 2720 | JTC 20 - M62 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 264 | 973 | 988 | | | | 2225 |
| B | 206 | 0 | 1100 | 5030 | | | | 6336 |
| C | 966 | 812 | 0 | 1263 | | | | 3041 |
| D | 982 | 5519 | 1078 | 0 | | | | 7579 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2154 | 6595 | 3151 | 7281 | | | | 19181 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 194 | 750 | 599 | | | | 1543 |
| B | 175 | 0 | 784 | 2591 | | | | 3550 |
| C | 788 | 437 | 0 | 858 | | | | 2083 |
| D | 579 | 2823 | 708 | 0 | | | | 4110 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1542 | 3454 | 2242 | 4048 | | | | 11286 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 102 | 144 | | | | 274 |
| B | 25 | 0 | 153 | 796 | | | | 974 |
| C | 109 | 108 | 0 | 201 | | | | 418 |
| D | 143 | 983 | 199 | 0 | | | | 1325 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 277 | 1119 | 454 | 1141 | | | | 2991 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 121 | 245 | | | | 408 |
| B | 6 | 0 | 163 | 1643 | | | | 1812 |
| C | 69 | 267 | 0 | 204 | | | | 540 |
| D | 260 | 1713 | 171 | 0 | | | | 2144 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 335 | 2022 | 455 | 2092 | | | | 4904 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 133 | 799 | 774 | | | | 1706 |
| B | 252 | 0 | 962 | 4878 | | | | 6092 |
| C | 309 | 682 | 0 | 869 | | | | 1860 |
| D | 805 | 5631 | 764 | 0 | | | | 7200 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1366 | 6446 | 2525 | 6521 | | | | 16858 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 77 | 563 | 414 | | | | 1054 |
| B | 92 | 0 | 449 | 2509 | | | | 3050 |
| C | 134 | 325 | 0 | 587 | | | | 1046 |
| D | 538 | 2635 | 532 | 0 | | | | 3705 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 764 | 3037 | 1544 | 3510 | | | | 8855 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 118 | 146 | | | | 282 |
| B | 22 | 0 | 174 | 836 | | | | 1032 |
| C | 103 | 113 | 0 | 201 | | | | 417 |
| D | 149 | 982 | 138 | 0 | | | | 1269 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 274 | 1113 | 430 | 1183 | | | | 3000 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 118 | 214 | | | | 370 |
| B | 138 | 0 | 339 | 1533 | | | | 2010 |
| C | 72 | 244 | 0 | 81 | | | | 397 |
| D | 118 | 2014 | 94 | 0 | | | | 2226 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 328 | 2296 | 551 | 1828 | | | | 5003 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 244 | 913 | 1119 | | | | 2276 |
| B | 187 | 0 | 1103 | 4519 | | | | 5809 |
| C | 963 | 911 | 0 | 1275 | | | | 3149 |
| D | 627 | 5527 | 1052 | 0 | | | | 7206 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1777 | 6682 | 3068 | 6913 | | | | 18440 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 188 | 697 | 763 | | | | 1648 |
| B | 134 | 0 | 844 | 2949 | | | | 3927 |
| C | 831 | 684 | 0 | 1032 | | | | 2547 |
| D | 496 | 3862 | 911 | 0 | | | | 5269 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1461 | 4734 | 2452 | 4744 | | | | 13391 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 119 | 134 | | | | 279 |
| B | 12 | 0 | 102 | 575 | | | | 689 |
| C | 103 | 126 | 0 | 151 | | | | 380 |
| D | 93 | 716 | 97 | 0 | | | | 906 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 208 | 868 | 318 | 860 | | | | 2254 |

MODELLED — HGV

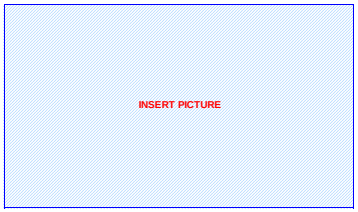
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 97 | 222 | | | | 349 |
| B | 41 | 0 | 157 | 995 | | | | 1193 |
| C | 29 | 101 | 0 | 92 | | | | 222 |
| D | 38 | 949 | 44 | 0 | | | | 1031 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 108 | 1080 | 298 | 1309 | | | | 2795 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J19




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | *JTC 21 - M60 SB* |
| B | 14141 | 5666 | 5093 | 14141 | *JTC 21 - A576 WB* |
| C | 5668 | 5665 | 5667 | 5669 | *JTC 21 - M60 NB* |
| D | 3414 | 5096 | 5095 | 3414 | *JTC 21 - A576 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 700 | 0 | 1004 | | | | 1704 |
| B | 494 | 0 | 304 | 468 | | | | 1266 |
| C | 0 | 254 | 25 | 548 | | | | 827 |
| D | 601 | 239 | 797 | 0 | | | | 1637 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1095 | 1193 | 1126 | 2020 | | | | 5434 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 529 | 0 | 836 | | | | 1365 |
| B | 382 | 0 | 235 | 415 | | | | 1032 |
| C | 0 | 175 | 23 | 452 | | | | 650 |
| D | 497 | 213 | 689 | 0 | | | | 1399 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 879 | 917 | 947 | 1703 | | | | 4446 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 108 | 0 | 80 | | | | 188 |
| B | 36 | 0 | 57 | 51 | | | | 144 |
| C | 0 | 48 | 2 | 76 | | | | 126 |
| D | 61 | 20 | 89 | 0 | | | | 170 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 97 | 176 | 148 | 207 | | | | 628 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 0 | 88 | | | | 151 |
| B | 76 | 0 | 12 | 2 | | | | 90 |
| C | 0 | 31 | 0 | 20 | | | | 51 |
| D | 43 | 6 | 19 | 0 | | | | 68 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 119 | 100 | 31 | 110 | | | | 360 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 466 | 0 | 692 | | | | 1158 |
| B | 304 | 0 | 279 | 355 | | | | 938 |
| C | 0 | 361 | 37 | 545 | | | | 943 |
| D | 565 | 507 | 665 | 0 | | | | 1737 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 869 | 1334 | 981 | 1592 | | | | 4776 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 325 | 0 | 539 | | | | 864 |
| B | 236 | 0 | 180 | 316 | | | | 732 |
| C | 0 | 214 | 37 | 435 | | | | 686 |
| D | 380 | 446 | 517 | 0 | | | | 1343 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 616 | 985 | 734 | 1290 | | | | 3625 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 88 | 0 | 97 | | | | 185 |
| B | 39 | 0 | 42 | 34 | | | | 115 |
| C | 0 | 78 | 0 | 74 | | | | 152 |
| D | 107 | 52 | 106 | 0 | | | | 265 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 146 | 218 | 148 | 205 | | | | 717 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 0 | 56 | | | | 109 |
| B | 29 | 0 | 57 | 5 | | | | 91 |
| C | 0 | 69 | 0 | 36 | | | | 105 |
| D | 78 | 9 | 42 | 0 | | | | 129 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 107 | 131 | 99 | 97 | | | | 434 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 554 | 0 | 1248 | | | | 1802 |
| B | 173 | 0 | 149 | 451 | | | | 773 |
| C | 5 | 401 | 3 | 560 | | | | 969 |
| D | 911 | 876 | 796 | 0 | | | | 2583 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1089 | 1831 | 948 | 2259 | | | | 6127 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 460 | 0 | 1170 | | | | 1630 |
| B | 149 | 0 | 129 | 412 | | | | 690 |
| C | 4 | 335 | 3 | 500 | | | | 842 |
| D | 796 | 815 | 723 | 0 | | | | 2334 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 949 | 1610 | 855 | 2082 | | | | 5496 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 69 | 0 | 58 | | | | 127 |
| B | 18 | 0 | 17 | 37 | | | | 72 |
| C | 1 | 51 | 0 | 60 | | | | 112 |
| D | 99 | 60 | 66 | 0 | | | | 225 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 118 | 180 | 83 | 155 | | | | 536 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 0 | 20 | | | | 45 |
| B | 6 | 0 | 3 | 2 | | | | 11 |
| C | 0 | 15 | 0 | 0 | | | | 15 |
| D | 16 | 1 | 7 | 0 | | | | 24 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 22 | 41 | 10 | 22 | | | | 95 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A576 Middleton Road / A6045 Heywood Old Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 3 | 553 | | | | 590 |
| B | 73 | 0 | 4 | 712 | | | | 788 |
| C | 4 | 4 | 0 | 17 | | | | 25 |
| D | 401 | 797 | 11 | 0 | | | | 1208 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 478 | 835 | 17 | 1282 | | | | 2612 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 3 | 472 | | | | 505 |
| B | 53 | 0 | 1 | 546 | | | | 600 |
| C | 3 | 2 | 0 | 12 | | | | 18 |
| D | 329 | 581 | 8 | 0 | | | | 917 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 384 | 613 | 12 | 1030 | | | | 2039 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 0 | 61 | | | | 66 |
| B | 12 | 0 | 1 | 80 | | | | 92 |
| C | 1 | 1 | 0 | 3 | | | | 5 |
| D | 54 | 120 | 1 | 0 | | | | 176 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 67 | 126 | 2 | 144 | | | | 339 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 20 | | | | 20 |
| B | 8 | 0 | 2 | 68 | | | | 78 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 18 | 80 | 2 | 0 | | | | 100 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 27 | 81 | 3 | 89 | | | | 200 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 33 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 111 | 6 | 330 | | | | 447 |
| B | 129 | 0 | 6 | 616 | | | | 750 |
| C | 5 | 5 | 0 | 9 | | | | 20 |
| D | 573 | 769 | 10 | 0 | | | | 1351 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 707 | 885 | 22 | 955 | | | | 2568 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 4 | 264 | | | | 358 |
| B | 84 | 0 | 4 | 460 | | | | 547 |
| C | 3 | 3 | 0 | 7 | | | | 14 |
| D | 433 | 544 | 8 | 0 | | | | 985 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 520 | 637 | 15 | 731 | | | | 1903 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 1 | 36 | | | | 53 |
| B | 18 | 0 | 1 | 77 | | | | 97 |
| C | 1 | 1 | 0 | 1 | | | | 4 |
| D | 87 | 129 | 2 | 0 | | | | 218 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 107 | 146 | 4 | 115 | | | | 372 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 1 | 30 | | | | 36 |
| B | 27 | 0 | 1 | 60 | | | | 88 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 52 | 78 | 1 | 0 | | | | 131 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 80 | 84 | 2 | 91 | | | | 257 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.81 | 0 | 17.94 | | | | 35.75 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 102 | 4 | 379 | | | | 485 |
| B | 153 | 0 | 4 | 403 | | | | 560 |
| C | 7 | 6 | 0 | 6 | | | | 18 |
| D | 904 | 932 | 12 | 0 | | | | 1848 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1064 | 1040 | 19 | 788 | | | | 2911 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 3 | 343 | | | | 437 |
| B | 139 | 0 | 3 | 343 | | | | 485 |
| C | 6 | 4 | 0 | 4 | | | | 14 |
| D | 812 | 788 | 9 | 0 | | | | 1610 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 957 | 883 | 16 | 690 | | | | 2545 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | 31 | | | | 41 |
| B | 14 | 0 | 0 | 40 | | | | 54 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 79 | 100 | 1 | 0 | | | | 181 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 110 | 2 | 71 | | | | 277 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | 5 | | | | 8 |
| B | 1 | 0 | 0 | 5 | | | | 6 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 13 | 27 | 1 | 0 | | | | 41 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 14 | 30 | 1 | 11 | | | | 56 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 17 | 0 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.09 | 0 | 15.65 | | | | 32.74 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3bS2.2_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 93 | 1030 | | | | | 1123 |
| B | 0 | 0 | 1091 | | | | | 1091 |
| C | 1921 | 707 | 0 | | | | | 2628 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1921 | 800 | 2121 | | | | | 4842 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 69 | 775 | | | | | 844 |
| B | 0 | 0 | 771 | | | | | 771 |
| C | 1484 | 535 | 0 | | | | | 2019 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1484 | 604 | 1546 | | | | | 3634 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 107 | | | | | 121 |
| B | 0 | 0 | 227 | | | | | 227 |
| C | 177 | 112 | 0 | | | | | 290 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 177 | 126 | 334 | | | | | 638 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 118 | | | | | 129 |
| B | 0 | 0 | 93 | | | | | 93 |
| C | 230 | 59 | 0 | | | | | 289 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 230 | 69 | 212 | | | | | 511 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 29 | | | | | 29 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 0 | 29 | | | | | 60 |

### Model_2_Heywood_DS3bS2.2_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 997 | | | | | 1031 |
| B | 0 | 0 | 975 | | | | | 975 |
| C | 1607 | 605 | 0 | | | | | 2213 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1607 | 640 | 1971 | | | | | 4219 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 726 | | | | | 749 |
| B | 0 | 0 | 650 | | | | | 650 |
| C | 1160 | 400 | 0 | | | | | 1560 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1160 | 423 | 1375 | | | | | 2958 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 119 | | | | | 125 |
| B | 0 | 0 | 200 | | | | | 200 |
| C | 222 | 141 | 0 | | | | | 363 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 222 | 146 | 319 | | | | | 687 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 122 | | | | | 129 |
| B | 0 | 0 | 125 | | | | | 125 |
| C | 194 | 65 | 0 | | | | | 258 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 194 | 71 | 247 | | | | | 512 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.57 | 0 | 29.63 | | | | | 61.2 |

### Model_3_Heywood_DS3bS2.2_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 1114 | | | | | 1119 |
| B | 0 | 0 | 1084 | | | | | 1084 |
| C | 1825 | 732 | 0 | | | | | 2556 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1825 | 736 | 2198 | | | | | 4759 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 1004 | | | | | 1006 |
| B | 0 | 0 | 966 | | | | | 966 |
| C | 1593 | 608 | 0 | | | | | 2201 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1593 | 610 | 1970 | | | | | 4173 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 61 | | | | | 62 |
| B | 0 | 0 | 93 | | | | | 93 |
| C | 147 | 86 | 0 | | | | | 233 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 147 | 87 | 153 | | | | | 387 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 23 | | | | | 24 |
| B | 0 | 0 | 25 | | | | | 25 |
| C | 56 | 38 | 0 | | | | | 94 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 39 | 48 | | | | | 143 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.51 | 0 | 27.17 | | | | | 55.68 |

## Run 20 - 2039 Do Something 3 - S.3.1 – Policy OnOrigin-Destination Matrices

- Policy On ( Vision-Led)
- including all of the JPA1.1 Allocation Site & all of the JPA1.2 Allocation Site
- including the M62 Access solution
- including Common Highway Mitigation Package and J18 DCO works
- Whittle Lane capacity constrained and South Heywood Link Closed

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60124 | 4924 | 4924 | 60124 | M62 J19 and Birch |
| E | 60057 | 60011 | 4924 | 2718 | C1-M62 WC1-M62 West |
| F | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizabe |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 229 | 236 | 528 | 0 | 4 | | 997 |
| B | 208 | 0 | 131 | 0 | 0 | 389 | | 728 |
| C | 219 | 72 | 0 | 288 | 0 | 119 | | 698 |
| D | 207 | 0 | 83 | 0 | 0 | 53 | | 343 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 4 | 324 | 126 | 151 | 0 | 0 | | 605 |
| G | | | | | | | | |
| TOTAL | 638 | 625 | 576 | 967 | 0 | 565 | | 3371 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 172 | 186 | 385 | 0 | 4 | | 747 |
| B | 137 | 0 | 48 | 0 | 0 | 258 | | 443 |
| C | 180 | 51 | 0 | 225 | 0 | 83 | | 539 |
| D | 130 | 0 | 33 | 0 | 0 | 30 | | 193 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 3 | 243 | 98 | 123 | 0 | 0 | | 467 |
| G | | | | | | | | |
| TOTAL | 450 | 466 | 365 | 733 | 0 | 375 | | 2389 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 46 | 55 | 0 | 0 | | 151 |
| B | 35 | 0 | 51 | 0 | 0 | 63 | | 149 |
| C | 35 | 4 | 0 | 32 | 0 | 33 | | 104 |
| D | 48 | 0 | 9 | 0 | 0 | 4 | | 61 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 1 | 26 | 13 | 22 | 0 | 0 | | 62 |
| G | | | | | | | | |
| TOTAL | 119 | 80 | 119 | 109 | 0 | 100 | | 527 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 4 | 88 | 0 | 0 | | 99 |
| B | 36 | 0 | 32 | 0 | 0 | 68 | | 136 |
| C | 4 | 17 | 0 | 31 | 0 | 3 | | 55 |
| D | 29 | 0 | 41 | 0 | 0 | 19 | | 89 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 0 | 55 | 15 | 6 | 0 | 0 | | 76 |
| G | | | | | | | | |
| TOTAL | 69 | 79 | 92 | 125 | 0 | 90 | | 455 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 203 | 253 | 260 | 0 | 0 | | 716 |
| B | 153 | 0 | 78 | 0 | 0 | 134 | | 365 |
| C | 175 | 143 | 0 | 234 | 0 | 111 | | 663 |
| D | 145 | 0 | 87 | 0 | 0 | 48 | | 280 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 21 | 173 | 63 | 9 | 0 | 0 | | 266 |
| G | | | | | | | | |
| TOTAL | 494 | 519 | 481 | 503 | 0 | 293 | | 2290 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 145 | 221 | 152 | 0 | 0 | | 518 |
| B | 91 | 0 | 59 | 0 | 0 | 82 | | 232 |
| C | 138 | 89 | 0 | 133 | 0 | 95 | | 455 |
| D | 50 | 0 | 29 | 0 | 0 | 7 | | 86 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 16 | 52 | 45 | 3 | 0 | 0 | | 116 |
| G | | | | | | | | |
| TOTAL | 295 | 286 | 354 | 288 | 0 | 184 | | 1407 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 24 | 53 | 0 | 0 | | 119 |
| B | 34 | 0 | 13 | 0 | 0 | 10 | | 57 |
| C | 23 | 19 | 0 | 44 | 0 | 12 | | 98 |
| D | 44 | 0 | 17 | 0 | 0 | 4 | | 65 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 5 | 36 | 8 | 1 | 0 | 0 | | 50 |
| G | | | | | | | | |
| TOTAL | 106 | 97 | 62 | 98 | 0 | 26 | | 389 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 8 | 55 | 0 | 0 | | 79 |
| B | 28 | 0 | 6 | 0 | 0 | 42 | | 76 |
| C | 14 | 35 | 0 | 57 | 0 | 4 | | 110 |
| D | 51 | 0 | 41 | 0 | 0 | 37 | | 129 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 0 | 85 | 10 | 5 | 0 | 0 | | 100 |
| G | | | | | | | | |
| TOTAL | 93 | 136 | 65 | 117 | 0 | 83 | | 494 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 233 | 233 | 356 | 0 | 0 | | 822 |
| B | 175 | 0 | 206 | 0 | 0 | 238 | | 619 |
| C | 265 | 68 | 0 | 293 | 0 | 131 | | 757 |
| D | 211 | 0 | 71 | 0 | 0 | 48 | | 330 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 53 | 216 | 147 | 10 | 0 | 0 | | 426 |
| G | | | | | | | | |
| TOTAL | 704 | 517 | 657 | 659 | 0 | 417 | | 2954 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 193 | 213 | 321 | 0 | 0 | | 727 |
| B | 128 | 0 | 170 | 0 | 0 | 175 | | 473 |
| C | 250 | 64 | 0 | 234 | 0 | 123 | | 671 |
| D | 171 | 0 | 44 | 0 | 0 | 34 | | 249 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 50 | 174 | 132 | 7 | 0 | 0 | | 363 |
| G | | | | | | | | |
| TOTAL | 599 | 431 | 559 | 562 | 0 | 332 | | 2483 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 17 | 21 | 0 | 0 | | 66 |
| B | 29 | 0 | 31 | 0 | 0 | 23 | | 83 |
| C | 14 | 4 | 0 | 28 | 0 | 8 | | 54 |
| D | 18 | 0 | 12 | 0 | 0 | 3 | | 33 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 3 | 17 | 4 | 0 | 0 | 0 | | 24 |
| G | | | | | | | | |
| TOTAL | 64 | 49 | 64 | 49 | 0 | 34 | | 260 |

HGV

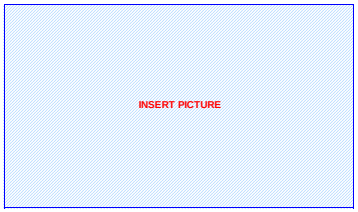
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 3 | 14 | 0 | 0 | | 29 |
| B | 18 | 0 | 5 | 0 | 0 | 40 | | 63 |
| C | 1 | 0 | 0 | 31 | 0 | 0 | | 32 |
| D | 22 | 0 | 15 | 0 | 0 | 11 | | 48 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 0 | 25 | 11 | 3 | 0 | 0 | | 39 |
| G | | | | | | | | |
| TOTAL | 41 | 37 | 34 | 48 | 0 | 51 | | 211 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | 045 Manchester Road |
| B | 60003 | 60010 | 60010 | 60003 | d Queen Elizabeth Wa |
| C | 2814 | 60010 | 60010 | 2814 | 045 Manchester Road |
| D | 60008 | 60010 | 60010 | 60008 | d Queen Elizabeth Wa |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 249 | 172 | 107 | | | | 528 |
| B | 100 | 0 | 70 | 395 | | | | 565 |
| C | 299 | 91 | 0 | 53 | | | | 444 |
| D | 50 | 264 | 26 | 0 | | | | 340 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 450 | 605 | 268 | 555 | | | | 1877 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 202 | 153 | 92 | | | | 446 |
| B | 76 | 0 | 47 | 254 | | | | 376 |
| C | 262 | 86 | 0 | 43 | | | | 391 |
| D | 40 | 179 | 23 | 0 | | | | 241 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 378 | 467 | 222 | 388 | | | | 1455 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 11 | 14 | | | | 59 |
| B | 11 | 0 | 21 | 68 | | | | 99 |
| C | 21 | 3 | 0 | 2 | | | | 26 |
| D | 7 | 25 | 3 | 0 | | | | 35 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 62 | 34 | 84 | | | | 219 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 7 | 1 | | | | 22 |
| B | 14 | 0 | 2 | 74 | | | | 90 |
| C | 16 | 2 | 0 | 8 | | | | 26 |
| D | 2 | 60 | 0 | 0 | | | | 63 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 76 | 9 | 83 | | | | 201 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 209 | 48 | | | | 289 |
| B | 100 | 0 | 15 | 178 | | | | 293 |
| C | 317 | 40 | 0 | 20 | | | | 377 |
| D | 59 | 194 | 16 | 0 | | | | 269 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 476 | 266 | 239 | 246 | | | | 1227 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 165 | 39 | | | | 223 |
| B | 92 | 0 | 12 | 79 | | | | 184 |
| C | 249 | 29 | 0 | 14 | | | | 291 |
| D | 41 | 69 | 14 | 0 | | | | 123 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 381 | 116 | 191 | 132 | | | | 821 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 21 | 9 | | | | 34 |
| B | 3 | 0 | 2 | 21 | | | | 26 |
| C | 36 | 7 | 0 | 1 | | | | 43 |
| D | 14 | 39 | 1 | 0 | | | | 53 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 52 | 50 | 24 | 31 | | | | 157 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 21 | 0 | | | | 31 |
| B | 5 | 0 | 0 | 77 | | | | 83 |
| C | 31 | 4 | 0 | 5 | | | | 40 |
| D | 5 | 86 | 1 | 0 | | | | 92 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 41 | 100 | 22 | 82 | | | | 245 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 46 | 238 | 35 | | | | 319 |
| B | 109 | 0 | 55 | 254 | | | | 417 |
| C | 446 | 140 | 0 | 20 | | | | 607 |
| D | 80 | 243 | 27 | 0 | | | | 350 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 635 | 429 | 320 | 308 | | | | 1693 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 220 | 26 | | | | 282 |
| B | 93 | 0 | 44 | 194 | | | | 332 |
| C | 394 | 127 | 0 | 18 | | | | 539 |
| D | 69 | 202 | 25 | 0 | | | | 295 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 556 | 365 | 289 | 238 | | | | 1449 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 13 | 7 | | | | 22 |
| B | 10 | 0 | 9 | 16 | | | | 34 |
| C | 35 | 12 | 0 | 0 | | | | 48 |
| D | 6 | 11 | 1 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 26 | 22 | 24 | | | | 122 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 3 | 1 | | | | 12 |
| B | 6 | 0 | 2 | 43 | | | | 51 |
| C | 15 | 1 | 0 | 2 | | | | 18 |
| D | 5 | 30 | 1 | 0 | | | | 37 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 39 | 7 | 47 | | | | 118 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.96 | 0 | 1.99 | 0 | | | | 3.95 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Hill Top Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | rehills Rd EB |
| B | 60036 | 60031 | 60031 | 60036 | ill Top Road |
| C | 60230 | 7454 | 7454 | 60230 | rehills Rd SB |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 143 | 328 | 0 | | | | 471 |
| B | 101 | 0 | 10 | 0 | | | | 111 |
| C | 468 | 85 | 0 | 1 | | | | 554 |
| D | 1 | 0 | 0 | 0 | | | | 1 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 570 | 228 | 338 | 1 | | | | 1137 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 86 | 237 | 0 | | | | 323 |
| B | 17 | 0 | 3 | 0 | | | | 20 |
| C | 325 | 61 | 0 | 1 | | | | 387 |
| D | 1 | 0 | 0 | 0 | | | | 1 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 343 | 147 | 240 | 1 | | | | 731 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 35 | 0 | | | | 43 |
| B | 6 | 0 | 0 | 0 | | | | 6 |
| C | 80 | 4 | 0 | 0 | | | | 84 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 86 | 12 | 35 | 0 | | | | 133 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 49 | 56 | 0 | | | | 105 |
| B | 78 | 0 | 7 | 0 | | | | 85 |
| C | 63 | 20 | 0 | 0 | | | | 83 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 141 | 69 | 63 | 0 | | | | 273 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 245 | 0 | | | | 320 |
| B | 124 | 0 | 23 | 0 | | | | 147 |
| C | 193 | 52 | 0 | 0 | | | | 245 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 317 | 127 | 268 | 0 | | | | 712 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 110 | 0 | | | | 139 |
| B | 50 | 0 | 13 | 0 | | | | 63 |
| C | 117 | 15 | 0 | 0 | | | | 132 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 167 | 44 | 123 | 0 | | | | 334 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 49 | 0 | | | | 58 |
| B | 14 | 0 | 4 | 0 | | | | 18 |
| C | 25 | 6 | 0 | 0 | | | | 31 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 39 | 15 | 53 | 0 | | | | 107 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 86 | 0 | | | | 123 |
| B | 60 | 0 | 6 | 0 | | | | 66 |
| C | 51 | 31 | 0 | 0 | | | | 82 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 111 | 68 | 92 | 0 | | | | 271 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 296 | 1 | | | | 351 |
| B | 136 | 0 | 52 | 0 | | | | 188 |
| C | 274 | 33 | 0 | 0 | | | | 307 |
| D | 0 | 0 | 1 | 0 | | | | 1 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 410 | 87 | 349 | 1 | | | | 847 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 259 | 1 | | | | 285 |
| B | 110 | 0 | 35 | 0 | | | | 145 |
| C | 217 | 20 | 0 | 0 | | | | 237 |
| D | 0 | 0 | 1 | 0 | | | | 1 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 327 | 45 | 295 | 1 | | | | 668 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 11 | 0 | | | | 13 |
| B | 3 | 0 | 6 | 0 | | | | 9 |
| C | 23 | 1 | 0 | 0 | | | | 24 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 3 | 17 | 0 | | | | 46 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 26 | 0 | | | | 53 |
| B | 23 | 0 | 11 | 0 | | | | 34 |
| C | 34 | 12 | 0 | 0 | | | | 46 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 39 | 37 | 0 | | | | 133 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Pilsworth Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 202 | 304 | | | | | 506 |
| B | 408 | 0 | 168 | | | | | 576 |
| C | 394 | 176 | 0 | | | | | 570 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 803 | 378 | 472 | | | | | 1652 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 141 | 196 | | | | | 337 |
| B | 318 | 0 | 128 | | | | | 446 |
| C | 214 | 129 | 0 | | | | | 343 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 532 | 270 | 324 | | | | | 1126 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 21 | | | | | 41 |
| B | 36 | 0 | 21 | | | | | 58 |
| C | 54 | 32 | 0 | | | | | 87 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 91 | 52 | 42 | | | | | 185 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 86 | | | | | 128 |
| B | 54 | 0 | 19 | | | | | 72 |
| C | 126 | 15 | 0 | | | | | 141 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 180 | 56 | 105 | | | | | 341 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 236 | 248 | | | | | 484 |
| B | 191 | 0 | 73 | | | | | 264 |
| C | 225 | 92 | 0 | | | | | 317 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 416 | 328 | 322 | | | | | 1065 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 147 | 97 | | | | | 243 |
| B | 125 | 0 | 44 | | | | | 169 |
| C | 110 | 58 | 0 | | | | | 167 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 235 | 204 | 140 | | | | | 579 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 47 | | | | | 84 |
| B | 26 | 0 | 11 | | | | | 37 |
| C | 24 | 15 | 0 | | | | | 38 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 52 | 58 | | | | | 160 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 105 | | | | | 157 |
| B | 40 | 0 | 18 | | | | | 58 |
| C | 92 | 19 | 0 | | | | | 111 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 131 | 71 | 123 | | | | | 326 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 367 | 273 | | | | | 640 |
| B | 199 | 0 | 78 | | | | | 277 |
| C | 254 | 156 | 0 | | | | | 409 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 452 | 523 | 351 | | | | | 1326 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 325 | 221 | | | | | 546 |
| B | 161 | 0 | 63 | | | | | 225 |
| C | 189 | 138 | 0 | | | | | 327 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 350 | 462 | 285 | | | | | 1098 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 6 | | | | | 30 |
| B | 9 | 0 | 7 | | | | | 15 |
| C | 13 | 13 | 0 | | | | | 26 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 22 | 36 | 13 | | | | | 71 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 45 | | | | | 64 |
| B | 29 | 0 | 8 | | | | | 37 |
| C | 51 | 6 | 0 | | | | | 57 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 80 | 25 | 53 | | | | | 158 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / A58 Bury St

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 477 | 128 | | | | | 606 |
| B | 542 | 0 | 402 | | | | | 945 |
| C | 130 | 288 | 0 | | | | | 418 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 672 | 766 | 531 | | | | | 1969 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 349 | 104 | | | | | 454 |
| B | 373 | 0 | 286 | | | | | 659 |
| C | 93 | 219 | 0 | | | | | 312 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 467 | 568 | 390 | | | | | 1425 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 14 | | | | | 92 |
| B | 89 | 0 | 28 | | | | | 118 |
| C | 32 | 23 | 0 | | | | | 55 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 101 | 42 | | | | | 264 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 10 | | | | | 50 |
| B | 70 | 0 | 69 | | | | | 139 |
| C | 5 | 29 | 0 | | | | | 34 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 69 | 79 | | | | | 223 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 29 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 28 | 20 | | | | | 57 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 499 | 61 | | | | | 560 |
| B | 460 | 0 | 249 | | | | | 709 |
| C | 89 | 262 | 0 | | | | | 352 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 549 | 761 | 310 | | | | | 1621 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 370 | 47 | | | | | 417 |
| B | 330 | 0 | 170 | | | | | 500 |
| C | 72 | 173 | 0 | | | | | 244 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 401 | 542 | 218 | | | | | 1161 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 9 | | | | | 67 |
| B | 70 | 0 | 27 | | | | | 97 |
| C | 11 | 29 | 0 | | | | | 39 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 87 | 36 | | | | | 204 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 4 | | | | | 66 |
| B | 50 | 0 | 32 | | | | | 82 |
| C | 7 | 43 | 0 | | | | | 50 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 104 | 36 | | | | | 198 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.95 | 27.93 | 19.9 | | | | | 57.78 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 549 | 64 | | | | | 613 |
| B | 505 | 0 | 286 | | | | | 791 |
| C | 155 | 309 | 0 | | | | | 464 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 660 | 858 | 350 | | | | | 1868 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 502 | 57 | | | | | 559 |
| B | 446 | 0 | 221 | | | | | 667 |
| C | 146 | 268 | 0 | | | | | 413 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 591 | 770 | 278 | | | | | 1639 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 6 | | | | | 37 |
| B | 39 | 0 | 22 | | | | | 61 |
| C | 8 | 20 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 51 | 27 | | | | | 126 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 1 | | | | | 8 |
| B | 13 | 0 | 24 | | | | | 36 |
| C | 1 | 4 | 0 | | | | | 5 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 13 | 11 | 25 | | | | | 49 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 20 | | | | | 28 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.93 | 25.87 | 19.84 | | | | | 53.64 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Pilsworth Road / Heywood Distribution Centre**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | *Pilsworth Rd NB* |
| B | 20430 | 7459 | 7459 | 20430 | *ywood Distribution Cer* |
| C | 2813 | 7459 | 7459 | 2813 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 216 | 424 | | | | | 640 |
| B | 81 | 0 | 82 | | | | | 163 |
| C | 637 | 165 | 0 | | | | | 803 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 719 | 381 | 506 | | | | | 1605 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 127 | 320 | | | | | 447 |
| B | 15 | 0 | 18 | | | | | 33 |
| C | 435 | 97 | 0 | | | | | 532 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 450 | 224 | 337 | | | | | 1011 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 34 | | | | | 47 |
| B | 12 | 0 | 7 | | | | | 19 |
| C | 78 | 13 | 0 | | | | | 91 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 90 | 26 | 41 | | | | | 156 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 71 | | | | | 146 |
| B | 54 | 0 | 57 | | | | | 111 |
| C | 125 | 55 | 0 | | | | | 180 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 179 | 131 | 128 | | | | | 438 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 130 | 369 | | | | | 499 |
| B | 123 | 0 | 115 | | | | | 238 |
| C | 330 | 86 | 0 | | | | | 416 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 453 | 215 | 484 | | | | | 1152 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 189 | | | | | 226 |
| B | 48 | 0 | 54 | | | | | 103 |
| C | 195 | 40 | 0 | | | | | 235 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 243 | 76 | 243 | | | | | 563 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 70 | | | | | 89 |
| B | 18 | 0 | 13 | | | | | 32 |
| C | 41 | 9 | 0 | | | | | 50 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 59 | 27 | 84 | | | | | 170 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 109 | | | | | 184 |
| B | 57 | 0 | 47 | | | | | 104 |
| C | 94 | 37 | 0 | | | | | 131 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 150 | 112 | 157 | | | | | 419 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 69 | 538 | | | | | 607 |
| B | 144 | 0 | 102 | | | | | 245 |
| C | 404 | 49 | 0 | | | | | 452 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 547 | 117 | 640 | | | | | 1305 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 468 | | | | | 491 |
| B | 113 | 0 | 78 | | | | | 192 |
| C | 328 | 22 | 0 | | | | | 350 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 441 | 46 | 546 | | | | | 1033 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 27 | | | | | 31 |
| B | 9 | 0 | 3 | | | | | 12 |
| C | 19 | 3 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 28 | 7 | 30 | | | | | 65 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 44 | | | | | 85 |
| B | 21 | 0 | 20 | | | | | 42 |
| C | 57 | 23 | 0 | | | | | 80 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 78 | 64 | 64 | | | | | 207 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / JPA1.1 & SHDA employment

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | *Pilsworth Rd SB* |
| B | 60027 | 60229 | 60229 | 60027 | *SHDA* |
| C | 60024 | 60229 | 60229 | 60024 | *Pilsworth Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 719 | | | | | 719 |
| B | 0 | 0 | 2 | | | | | 2 |
| C | 640 | 3 | 0 | | | | | 643 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 640 | 3 | 721 | | | | | 1363 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 450 | | | | | 450 |
| B | 0 | 0 | 2 | | | | | 2 |
| C | 447 | 3 | 0 | | | | | 449 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 447 | 3 | 452 | | | | | 902 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 90 | | | | | 90 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 47 | 0 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 0 | 90 | | | | | 137 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 179 | | | | | 179 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 146 | 0 | 0 | | | | | 146 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 146 | 0 | 179 | | | | | 325 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 453 | | | | | 453 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 499 | 0 | 0 | | | | | 499 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 499 | 0 | 453 | | | | | 952 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 243 | | | | | 243 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 226 | 0 | 0 | | | | | 226 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 226 | 0 | 244 | | | | | 470 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 59 | | | | | 59 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 89 | 0 | 0 | | | | | 89 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 89 | 0 | 59 | | | | | 148 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 150 | | | | | 150 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 184 | 0 | 0 | | | | | 184 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 184 | 0 | 150 | | | | | 334 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 547 | | | | | 547 |
| B | 0 | 0 | 2 | | | | | 2 |
| C | 607 | 3 | 0 | | | | | 610 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 607 | 3 | 549 | | | | | 1159 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 441 | | | | | 441 |
| B | 0 | 0 | 2 | | | | | 2 |
| C | 491 | 3 | 0 | | | | | 494 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 491 | 3 | 443 | | | | | 937 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 28 | | | | | 28 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 31 | 0 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 0 | 28 | | | | | 59 |

MODELLED — HGV

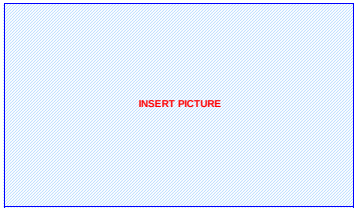
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 78 | | | | | 78 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 85 | 0 | 0 | | | | | 85 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 85 | 0 | 78 | | | | | 163 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** 3 Arrows (Pilsworth Road / Moss Hall Road - South)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 60241 | 2037 | 2037 | 60241 | *Link Road* |
| D | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 178 | 529 | 14 | | | | 721 |
| B | 35 | 0 | 414 | 2 | | | | 450 |
| C | 605 | 768 | 0 | 17 | | | | 1389 |
| D | 3 | 1 | 13 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 643 | 947 | 956 | 32 | | | | 2577 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 106 | 338 | 8 | | | | 452 |
| B | 7 | 0 | 146 | 1 | | | | 154 |
| C | 442 | 335 | 0 | 5 | | | | 781 |
| D | 1 | 1 | 1 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 449 | 442 | 485 | 15 | | | | 1390 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 71 | 2 | | | | 90 |
| B | 7 | 0 | 90 | 0 | | | | 96 |
| C | 40 | 120 | 0 | 3 | | | | 164 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 138 | 160 | 5 | | | | 350 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 55 | 120 | 4 | | | | 179 |
| B | 21 | 0 | 178 | 0 | | | | 200 |
| C | 123 | 313 | 0 | 8 | | | | 444 |
| D | 2 | 0 | 12 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 146 | 368 | 311 | 12 | | | | 837 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 389 | 2 | | | | 453 |
| B | 77 | 0 | 551 | 1 | | | | 629 |
| C | 412 | 471 | 0 | 22 | | | | 905 |
| D | 10 | 1 | 17 | 0 | | | | 28 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 499 | 534 | 957 | 25 | | | | 2016 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 220 | 2 | | | | 244 |
| B | 29 | 0 | 260 | 0 | | | | 289 |
| C | 196 | 191 | 0 | 2 | | | | 389 |
| D | 2 | 1 | 5 | 0 | | | | 7 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 226 | 213 | 485 | 4 | | | | 929 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 43 | 1 | | | | 59 |
| B | 20 | 0 | 122 | 0 | | | | 142 |
| C | 67 | 107 | 0 | 2 | | | | 176 |
| D | 2 | 0 | 1 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 89 | 123 | 165 | 3 | | | | 380 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 126 | 0 | | | | 150 |
| B | 29 | 0 | 170 | 0 | | | | 199 |
| C | 149 | 173 | 0 | 18 | | | | 340 |
| D | 6 | 0 | 11 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 184 | 198 | 307 | 18 | | | | 707 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 513 | 12 | | | | 549 |
| B | 131 | 0 | 688 | 2 | | | | 821 |
| C | 471 | 395 | 0 | 16 | | | | 881 |
| D | 8 | 1 | 11 | 0 | | | | 20 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 610 | 421 | 1211 | 30 | | | | 2272 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 425 | 7 | | | | 443 |
| B | 106 | 0 | 545 | 2 | | | | 653 |
| C | 382 | 292 | 0 | 10 | | | | 684 |
| D | 6 | 1 | 8 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 494 | 305 | 978 | 19 | | | | 1796 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 25 | 0 | | | | 28 |
| B | 5 | 0 | 58 | 0 | | | | 62 |
| C | 25 | 27 | 0 | 1 | | | | 53 |
| D | 1 | 0 | 2 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 30 | 84 | 1 | | | | 146 |

MODELLED — HGV

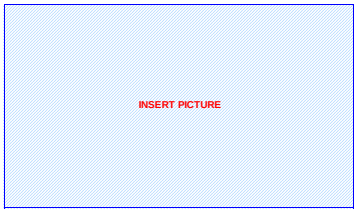
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 63 | 5 | | | | 78 |
| B | 21 | 0 | 85 | 0 | | | | 106 |
| C | 64 | 75 | 0 | 5 | | | | 144 |
| D | 0 | 0 | 2 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 85 | 85 | 150 | 10 | | | | 330 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Fowler Welch (Pilsworth Road / Moss Hall Road - North)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60241 | 60246 | 60246 | 60241 | *Moss Hall Rd NB* |
| B | 60000 | 60213 | 60213 | 60000 | *Pilsworth Road* |
| C | 60228 | 2038 | 2038 | 60228 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 824 | 131 | | | | | 955 |
| B | 1017 | 0 | 109 | | | | | 1126 |
| C | 372 | 61 | 0 | | | | | 433 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1389 | 885 | 240 | | | | | 2514 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 443 | 41 | | | | | 484 |
| B | 602 | 0 | 83 | | | | | 685 |
| C | 180 | 40 | 0 | | | | | 220 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 782 | 483 | 124 | | | | | 1389 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 135 | 25 | | | | | 160 |
| B | 76 | 0 | 12 | | | | | 88 |
| C | 88 | 14 | 0 | | | | | 102 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 164 | 149 | 37 | | | | | 350 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 246 | 65 | | | | | 311 |
| B | 339 | 0 | 14 | | | | | 353 |
| C | 104 | 7 | 0 | | | | | 111 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 443 | 253 | 79 | | | | | 775 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 643 | 314 | | | | | 957 |
| B | 782 | 0 | 74 | | | | | 856 |
| C | 122 | 98 | 0 | | | | | 220 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 904 | 741 | 388 | | | | | 2033 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 357 | 128 | | | | | 485 |
| B | 377 | 0 | 58 | | | | | 435 |
| C | 12 | 81 | 0 | | | | | 93 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 389 | 438 | 186 | | | | | 1013 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 94 | 71 | | | | | 165 |
| B | 161 | 0 | 10 | | | | | 171 |
| C | 15 | 13 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 176 | 107 | 81 | | | | | 364 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 192 | 115 | | | | | 307 |
| B | 244 | 0 | 6 | | | | | 250 |
| C | 95 | 4 | 0 | | | | | 99 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 339 | 196 | 121 | | | | | 656 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 773 | 439 | | | | | 1212 |
| B | 817 | 0 | 162 | | | | | 979 |
| C | 64 | 118 | 0 | | | | | 182 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 881 | 891 | 601 | | | | | 2373 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 631 | 347 | | | | | 978 |
| B | 672 | 0 | 141 | | | | | 813 |
| C | 12 | 107 | 0 | | | | | 119 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 684 | 738 | 488 | | | | | 1910 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 33 | | | | | 84 |
| B | 37 | 0 | 19 | | | | | 56 |
| C | 16 | 10 | 0 | | | | | 26 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 61 | 52 | | | | | 166 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 91 | 59 | | | | | 150 |
| B | 108 | 0 | 2 | | | | | 110 |
| C | 36 | 1 | 0 | | | | | 37 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 144 | 92 | 61 | | | | | 297 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | TC 11 - Pilsworth Rd E |
| B | 3001 | 60238 | 60239 | 3000 | JTC 11 - M66 SB Off |
| C | 60213 | 60000 | 60000 | 60213 | TC 11 - Pilsworth Rd W |
| D | 60236 | 4918 | 60240 | 2998 | JTC 11 - M66 NB Off |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 336 | 415 | 182 | | | | 933 |
| B | 372 | 0 | 392 | 0 | | | | 764 |
| C | 378 | 212 | 0 | 293 | | | | 883 |
| D | 628 | 0 | 317 | 0 | | | | 945 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1378 | 548 | 1124 | 475 | | | | 3525 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 260 | 305 | 123 | | | | 688 |
| B | 300 | 0 | 203 | 0 | | | | 503 |
| C | 289 | 80 | 0 | 114 | | | | 483 |
| D | 523 | 0 | 177 | 0 | | | | 700 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1112 | 340 | 685 | 237 | | | | 2374 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 44 | 47 | | | | 142 |
| B | 43 | 0 | 14 | 0 | | | | 57 |
| C | 55 | 56 | 0 | 37 | | | | 148 |
| D | 57 | 0 | 29 | 0 | | | | 86 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 155 | 107 | 87 | 84 | | | | 433 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 66 | 12 | | | | 103 |
| B | 29 | 0 | 175 | 0 | | | | 204 |
| C | 34 | 76 | 0 | 142 | | | | 252 |
| D | 48 | 0 | 111 | 0 | | | | 159 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 111 | 101 | 352 | 154 | | | | 718 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 376 | 330 | 181 | | | | 887 |
| B | 301 | 0 | 271 | 0 | | | | 572 |
| C | 286 | 168 | 0 | 288 | | | | 742 |
| D | 317 | 0 | 256 | 0 | | | | 573 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 904 | 544 | 857 | 469 | | | | 2774 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 301 | 183 | 161 | | | | 645 |
| B | 231 | 0 | 155 | 0 | | | | 386 |
| C | 203 | 116 | 0 | 120 | | | | 439 |
| D | 226 | 0 | 98 | 0 | | | | 324 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 660 | 417 | 436 | 281 | | | | 1794 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 54 | 19 | | | | 116 |
| B | 38 | 0 | 74 | 0 | | | | 112 |
| C | 40 | 26 | 0 | 41 | | | | 107 |
| D | 43 | 0 | 43 | 0 | | | | 86 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 69 | 171 | 60 | | | | 421 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 93 | 1 | | | | 126 |
| B | 32 | 0 | 42 | 0 | | | | 74 |
| C | 43 | 26 | 0 | 127 | | | | 196 |
| D | 48 | 0 | 115 | 0 | | | | 163 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 123 | 58 | 250 | 128 | | | | 559 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 392 | 514 | 185 | | | | 1091 |
| B | 286 | 0 | 236 | 0 | | | | 522 |
| C | 349 | 192 | 0 | 352 | | | | 893 |
| D | 459 | 0 | 231 | 0 | | | | 690 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1094 | 584 | 981 | 537 | | | | 3196 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 360 | 462 | 166 | | | | 988 |
| B | 255 | 0 | 206 | 0 | | | | 461 |
| C | 298 | 168 | 0 | 274 | | | | 740 |
| D | 357 | 0 | 146 | 0 | | | | 503 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 910 | 528 | 814 | 440 | | | | 2692 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 21 | 17 | | | | 58 |
| B | 24 | 0 | 10 | 0 | | | | 34 |
| C | 20 | 20 | 0 | 22 | | | | 62 |
| D | 46 | 0 | 25 | 0 | | | | 71 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 90 | 40 | 56 | 39 | | | | 225 |

MODELLED — HGV

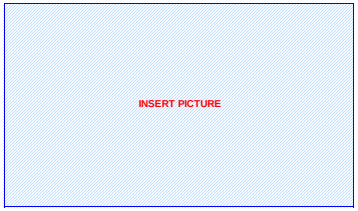
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 31 | 2 | | | | 45 |
| B | 7 | 0 | 20 | 0 | | | | 27 |
| C | 31 | 4 | 0 | 56 | | | | 91 |
| D | 56 | 0 | 60 | 0 | | | | 116 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 16 | 111 | 58 | | | | 279 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N12 - M66 NB Of |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 121 | 93 | 490 | 1282 | 41 | | 2027 |
| B | 238 | 0 | 23 | 232 | 0 | 29 | | 522 |
| C | 54 | 3 | 0 | 11 | 19 | 0 | | 87 |
| D | 582 | 250 | 23 | 0 | 239 | 48 | | 1142 |
| E | 1441 | 0 | 62 | 125 | 0 | 86 | | 1714 |
| F | 27 | 4 | 1 | 27 | 24 | 0 | | 83 |
| G | | | | | | | | |
| TOTAL | 2342 | 378 | 202 | 885 | 1564 | 204 | | 5575 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 93 | 36 | 298 | 1014 | 40 | | 1481 |
| B | 222 | 0 | 21 | 168 | 0 | 27 | | 438 |
| C | 9 | 1 | 0 | 3 | 6 | 0 | | 19 |
| D | 471 | 171 | 18 | 0 | 153 | 35 | | 848 |
| E | 1050 | 0 | 47 | 65 | 0 | 83 | | 1245 |
| F | 23 | 3 | 1 | 20 | 21 | 0 | | 68 |
| G | | | | | | | | |
| TOTAL | 1775 | 268 | 123 | 554 | 1194 | 185 | | 4099 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 27 | 98 | 162 | 1 | | 311 |
| B | 13 | 0 | 2 | 38 | 0 | 0 | | 53 |
| C | 31 | 2 | 0 | 5 | 8 | 0 | | 46 |
| D | 38 | 38 | 3 | 0 | 42 | 5 | | 126 |
| E | 179 | 0 | 7 | 35 | 0 | 2 | | 223 |
| F | 1 | 0 | 0 | 1 | 1 | 0 | | 3 |
| G | | | | | | | | |
| TOTAL | 262 | 63 | 39 | 177 | 213 | 8 | | 762 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 30 | 94 | 106 | 0 | | 235 |
| B | 3 | 0 | 0 | 26 | 0 | 2 | | 31 |
| C | 14 | 0 | 0 | 3 | 5 | 0 | | 22 |
| D | 73 | 41 | 2 | 0 | 44 | 8 | | 168 |
| E | 212 | 0 | 8 | 25 | 0 | 1 | | 246 |
| F | 3 | 1 | 0 | 6 | 2 | 0 | | 12 |
| G | | | | | | | | |
| TOTAL | 305 | 47 | 40 | 154 | 157 | 11 | | 714 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 169 | 99 | 292 | 1183 | 25 | | 1768 |
| B | 205 | 0 | 20 | 183 | 0 | 8 | | 416 |
| C | 73 | 12 | 0 | 14 | 32 | 1 | | 132 |
| D | 493 | 153 | 30 | 0 | 98 | 44 | | 818 |
| E | 1160 | 0 | 44 | 159 | 0 | 36 | | 1399 |
| F | 32 | 11 | 1 | 33 | 44 | 0 | | 121 |
| G | | | | | | | | |
| TOTAL | 1963 | 345 | 194 | 681 | 1357 | 114 | | 4654 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 123 | 48 | 185 | 846 | 22 | | 1224 |
| B | 169 | 0 | 15 | 118 | 0 | 6 | | 308 |
| C | 26 | 7 | 0 | 9 | 20 | 1 | | 63 |
| D | 306 | 95 | 18 | 0 | 47 | 24 | | 490 |
| E | 836 | 0 | 34 | 86 | 0 | 28 | | 984 |
| F | 29 | 9 | 1 | 21 | 38 | 0 | | 98 |
| G | | | | | | | | |
| TOTAL | 1366 | 234 | 116 | 419 | 951 | 81 | | 3167 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 32 | 26 | 200 | 2 | | 285 |
| B | 19 | 0 | 3 | 20 | 0 | 1 | | 43 |
| C | 37 | 3 | 0 | 3 | 8 | 0 | | 51 |
| D | 81 | 35 | 6 | 0 | 22 | 7 | | 151 |
| E | 172 | 0 | 7 | 38 | 0 | 3 | | 220 |
| F | 2 | 1 | 0 | 4 | 4 | 0 | | 11 |
| G | | | | | | | | |
| TOTAL | 311 | 64 | 48 | 91 | 234 | 13 | | 761 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 19 | 81 | 137 | 1 | | 259 |
| B | 17 | 0 | 2 | 45 | 0 | 1 | | 65 |
| C | 10 | 2 | 0 | 2 | 4 | 0 | | 18 |
| D | 106 | 23 | 6 | 0 | 29 | 13 | | 177 |
| E | 152 | 0 | 3 | 35 | 0 | 5 | | 195 |
| F | 1 | 1 | 0 | 8 | 2 | 0 | | 12 |
| G | | | | | | | | |
| TOTAL | 286 | 47 | 30 | 171 | 172 | 20 | | 726 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 249 | 29 | 356 | 1240 | 33 | | 1907 |
| B | 238 | 0 | 5 | 154 | 0 | 12 | | 409 |
| C | 46 | 11 | 0 | 17 | 44 | 1 | | 119 |
| D | 628 | 184 | 12 | 0 | 155 | 56 | | 1035 |
| E | 1359 | 0 | 16 | 235 | 0 | 40 | | 1650 |
| F | 34 | 14 | 0 | 40 | 89 | 0 | | 177 |
| G | | | | | | | | |
| TOTAL | 2305 | 458 | 62 | 802 | 1528 | 142 | | 5297 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 236 | 15 | 303 | 1147 | 32 | | 1733 |
| B | 224 | 0 | 4 | 138 | 0 | 11 | | 377 |
| C | 21 | 10 | 0 | 15 | 41 | 1 | | 88 |
| D | 529 | 164 | 10 | 0 | 123 | 51 | | 877 |
| E | 1216 | 0 | 13 | 196 | 0 | 35 | | 1460 |
| F | 32 | 13 | 0 | 37 | 88 | 0 | | 170 |
| G | | | | | | | | |
| TOTAL | 2022 | 423 | 42 | 689 | 1399 | 130 | | 4705 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 12 | 26 | 71 | 1 | | 122 |
| B | 14 | 0 | 1 | 14 | 0 | 1 | | 30 |
| C | 21 | 1 | 0 | 2 | 3 | 0 | | 27 |
| D | 40 | 17 | 2 | 0 | 20 | 5 | | 84 |
| E | 108 | 0 | 3 | 25 | 0 | 3 | | 139 |
| F | 2 | 1 | 0 | 2 | 1 | 0 | | 6 |
| G | | | | | | | | |
| TOTAL | 185 | 31 | 18 | 69 | 95 | 10 | | 408 |

MODELLED — HGV

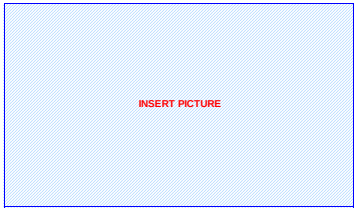
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 27 | 22 | 0 | | 52 |
| B | 0 | 0 | 0 | 2 | 0 | 0 | | 2 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 59 | 3 | 0 | 0 | 12 | 0 | | 74 |
| E | 35 | 0 | 0 | 14 | 0 | 2 | | 51 |
| F | 0 | 0 | 0 | 1 | 0 | 0 | | 1 |
| G | | | | | | | | |
| TOTAL | 98 | 4 | 2 | 44 | 34 | 2 | | 184 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | *Heywood Old Road NE* |
| B | 60074 | 2478 | 2478 | 60074 | *Whittle Lane* |
| C | 4730 | 2478 | 2478 | 4730 | *Heywood Old Road SE* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 68 | 488 | | | | | 556 |
| B | 5 | 0 | 25 | | | | | 30 |
| C | 322 | 105 | 0 | | | | | 427 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 327 | 173 | 513 | | | | | 1013 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 64 | 422 | | | | | 486 |
| B | 3 | 0 | 16 | | | | | 19 |
| C | 264 | 84 | 0 | | | | | 347 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 267 | 148 | 438 | | | | | 853 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 41 | | | | | 45 |
| B | 2 | 0 | 9 | | | | | 11 |
| C | 47 | 21 | 0 | | | | | 69 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 25 | 49 | | | | | 124 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 23 | | | | | 23 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 11 | 0 | 0 | | | | | 11 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 11 | 0 | 23 | | | | | 34 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 429 | | | | | 460 |
| B | 6 | 0 | 84 | | | | | 91 |
| C | 308 | 35 | 0 | | | | | 343 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 314 | 66 | 513 | | | | | 893 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 332 | | | | | 344 |
| B | 4 | 0 | 57 | | | | | 61 |
| C | 255 | 15 | 0 | | | | | 270 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 259 | 28 | 389 | | | | | 675 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 52 | | | | | 71 |
| B | 3 | 0 | 28 | | | | | 30 |
| C | 31 | 19 | 0 | | | | | 50 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 38 | 79 | | | | | 151 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 43 | | | | | 43 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 22 | 0 | 43 | | | | | 65 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.99 | | | | | 1.99 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 731 | | | | | 751 |
| B | 23 | 0 | 111 | | | | | 134 |
| C | 395 | 20 | 0 | | | | | 415 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 418 | 40 | 842 | | | | | 1300 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 644 | | | | | 661 |
| B | 21 | 0 | 90 | | | | | 111 |
| C | 355 | 16 | 0 | | | | | 371 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 376 | 33 | 734 | | | | | 1143 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 67 | | | | | 70 |
| B | 2 | 0 | 22 | | | | | 23 |
| C | 34 | 4 | 0 | | | | | 38 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 36 | 7 | 88 | | | | | 131 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 18 | | | | | 18 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 6 | 0 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 6 | 0 | 18 | | | | | 24 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.96 | | | | | 1.96 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A6045 Heywood Old Road / Langley Lane**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | *Heywood Old Road SB* |
| B | 15238 | 4730 | 4730 | 15238 | *Langley Lane* |
| C | 2478 | 4730 | 4730 | 2478 | *Heywood Old Road NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 70 | 199 | | | | | 268 |
| B | 112 | 0 | 228 | | | | | 340 |
| C | 333 | 180 | 0 | | | | | 513 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 445 | 249 | 427 | | | | | 1121 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 164 | | | | | 223 |
| B | 104 | 0 | 183 | | | | | 287 |
| C | 288 | 150 | 0 | | | | | 438 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 392 | 209 | 347 | | | | | 949 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 30 | | | | | 34 |
| B | 4 | 0 | 38 | | | | | 42 |
| C | 22 | 27 | 0 | | | | | 49 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 31 | 69 | | | | | 126 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 4 | | | | | 9 |
| B | 4 | 0 | 7 | | | | | 11 |
| C | 22 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 5 | 11 | | | | | 43 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 209 | | | | | 240 |
| B | 41 | 0 | 134 | | | | | 175 |
| C | 336 | 177 | 0 | | | | | 513 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 377 | 208 | 343 | | | | | 928 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 165 | | | | | 191 |
| B | 33 | 0 | 105 | | | | | 138 |
| C | 259 | 130 | 0 | | | | | 389 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 292 | 157 | 270 | | | | | 719 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 22 | | | | | 24 |
| B | 4 | 0 | 28 | | | | | 31 |
| C | 40 | 39 | 0 | | | | | 79 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 43 | 41 | 50 | | | | | 134 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 22 | | | | | 22 |
| B | 3 | 0 | 1 | | | | | 3 |
| C | 37 | 6 | 0 | | | | | 43 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 7 | 22 | | | | | 69 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.98 | 0 | | | | | 5.98 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 281 | | | | | 321 |
| B | 55 | 0 | 134 | | | | | 189 |
| C | 553 | 290 | 0 | | | | | 842 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 608 | 329 | 415 | | | | | 1352 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 256 | | | | | 290 |
| B | 50 | 0 | 115 | | | | | 165 |
| C | 490 | 243 | 0 | | | | | 734 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 540 | 277 | 371 | | | | | 1188 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 20 | | | | | 22 |
| B | 3 | 0 | 18 | | | | | 21 |
| C | 45 | 43 | 0 | | | | | 88 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 48 | 46 | 38 | | | | | 132 |

MODELLED — HGV

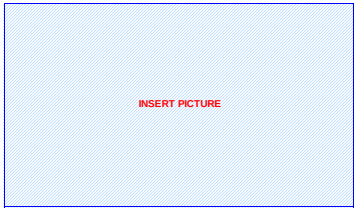
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 6 | | | | | 7 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 17 | 1 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 18 | 2 | 6 | | | | | 26 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.95 | 0 | | | | | 5.95 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Langley Lane / A6046 Hollin Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 112 | 677 | | | | | 789 |
| B | 148 | 0 | 41 | | | | | 189 |
| C | 600 | 6 | 0 | | | | | 606 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 748 | 118 | 718 | | | | | 1583 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 67 | 500 | | | | | 567 |
| B | 116 | 0 | 40 | | | | | 157 |
| C | 360 | 6 | 0 | | | | | 366 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 476 | 73 | 540 | | | | | 1089 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 102 | | | | | 140 |
| B | 27 | 0 | 1 | | | | | 28 |
| C | 119 | 0 | 0 | | | | | 119 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 146 | 38 | 103 | | | | | 287 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 55 | | | | | 62 |
| B | 0 | 0 | 0 | | | | | 1 |
| C | 91 | 0 | 0 | | | | | 91 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 92 | 7 | 55 | | | | | 154 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 20 | | | | | 20 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 0 | 20 | | | | | 53 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 64 | 667 | | | | | 732 |
| B | 104 | 0 | 18 | | | | | 122 |
| C | 493 | 11 | 0 | | | | | 504 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 597 | 76 | 685 | | | | | 1358 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 439 | | | | | 474 |
| B | 61 | 0 | 17 | | | | | 77 |
| C | 343 | 11 | 0 | | | | | 354 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 403 | 46 | 456 | | | | | 905 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 98 | | | | | 125 |
| B | 36 | 0 | 0 | | | | | 36 |
| C | 61 | 0 | 0 | | | | | 61 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 27 | 98 | | | | | 222 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 110 | | | | | 111 |
| B | 4 | 0 | 1 | | | | | 5 |
| C | 65 | 0 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 69 | 1 | 111 | | | | | 181 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.86 | 2 | 19.98 | | | | | 49.84 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 777 | | | | | 848 |
| B | 97 | 0 | 10 | | | | | 108 |
| C | 643 | 38 | 0 | | | | | 682 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 740 | 109 | 787 | | | | | 1637 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 662 | | | | | 713 |
| B | 60 | 0 | 10 | | | | | 71 |
| C | 522 | 38 | 0 | | | | | 560 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 583 | 89 | 673 | | | | | 1344 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 55 | | | | | 73 |
| B | 32 | 0 | 0 | | | | | 32 |
| C | 63 | 0 | 0 | | | | | 63 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 18 | 55 | | | | | 168 |

MODELLED — HGV

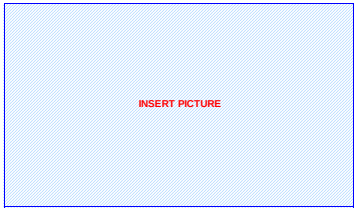
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 32 | | | | | 32 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 34 | 0 | 0 | | | | | 34 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 35 | 0 | 32 | | | | | 67 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 28 | | | | | 30 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.75 | 1.99 | 27.84 | | | | | 57.58 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A6045 Manchester Road / Coronation Avenue**




***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 94 | 359 | | | | | 453 |
| B | 333 | 0 | 40 | | | | | 372 |
| C | 343 | 205 | 0 | | | | | 548 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 676 | 299 | 398 | | | | | 1373 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 287 | | | | | 287 |
| B | 226 | 0 | 32 | | | | | 258 |
| C | 309 | 163 | 0 | | | | | 472 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 535 | 163 | 319 | | | | | 1017 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 53 | | | | | 53 |
| B | 31 | 0 | 5 | | | | | 37 |
| C | 20 | 28 | 0 | | | | | 48 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 51 | 28 | 58 | | | | | 138 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 65 | 15 | | | | | 80 |
| B | 56 | 0 | 3 | | | | | 58 |
| C | 14 | 13 | 0 | | | | | 27 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 70 | 78 | 17 | | | | | 165 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 4 | | | | | 33 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 20 | 29 | 4 | | | | | 53 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 249 | | | | | 324 |
| B | 130 | 0 | 59 | | | | | 189 |
| C | 377 | 137 | 0 | | | | | 513 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 506 | 212 | 308 | | | | | 1026 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 183 | | | | | 183 |
| B | 38 | 0 | 6 | | | | | 44 |
| C | 274 | 104 | 0 | | | | | 378 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 311 | 104 | 189 | | | | | 604 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 35 | | | | | 35 |
| B | 0 | 0 | 39 | | | | | 40 |
| C | 68 | 25 | 0 | | | | | 92 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 25 | 74 | | | | | 166 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 26 | | | | | 77 |
| B | 72 | 0 | 13 | | | | | 86 |
| C | 33 | 8 | 0 | | | | | 42 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 106 | 59 | 39 | | | | | 204 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.94 | 23.89 | 5.97 | | | | | 51.8 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 269 | | | | | 314 |
| B | 290 | 0 | 21 | | | | | 311 |
| C | 420 | 152 | 0 | | | | | 571 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 710 | 197 | 290 | | | | | 1197 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 233 | | | | | 233 |
| B | 238 | 0 | 10 | | | | | 247 |
| C | 363 | 135 | 0 | | | | | 498 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 601 | 135 | 242 | | | | | 978 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 16 | | | | | 16 |
| B | 2 | 0 | 10 | | | | | 13 |
| C | 33 | 15 | 0 | | | | | 49 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 36 | 15 | 27 | | | | | 78 |

MODELLED — HGV

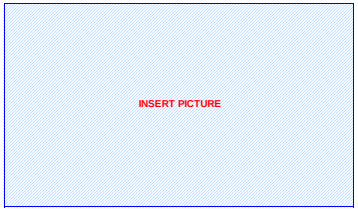
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 16 | | | | | 37 |
| B | 23 | 0 | 1 | | | | | 23 |
| C | 21 | 2 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 44 | 23 | 17 | | | | | 84 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 4 | | | | | 28 |
| B | 28 | 0 | 0 | | | | | 28 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.66 | 23.84 | 3.97 | | | | | 57.47 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / Hollins Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 369 | 456 | | | | | 826 |
| B | 207 | 0 | 70 | | | | | 277 |
| C | 695 | 64 | 0 | | | | | 760 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 902 | 434 | 527 | | | | | 1862 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 320 | 375 | | | | | 696 |
| B | 164 | 0 | 57 | | | | | 221 |
| C | 564 | 48 | 0 | | | | | 612 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 728 | 368 | 433 | | | | | 1528 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 52 | | | | | 93 |
| B | 36 | 0 | 7 | | | | | 43 |
| C | 67 | 9 | 0 | | | | | 77 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 50 | 59 | | | | | 213 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 29 | | | | | 33 |
| B | 2 | 0 | 0 | | | | | 3 |
| C | 64 | 2 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 66 | 6 | 29 | | | | | 101 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 164 | 506 | | | | | 670 |
| B | 149 | 0 | 39 | | | | | 188 |
| C | 520 | 59 | 0 | | | | | 579 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 669 | 223 | 545 | | | | | 1437 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 132 | 377 | | | | | 509 |
| B | 116 | 0 | 26 | | | | | 142 |
| C | 380 | 40 | 0 | | | | | 419 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 496 | 171 | 403 | | | | | 1071 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 67 | | | | | 92 |
| B | 24 | 0 | 7 | | | | | 30 |
| C | 71 | 12 | 0 | | | | | 84 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 37 | 74 | | | | | 206 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 61 | | | | | 67 |
| B | 5 | 0 | 0 | | | | | 5 |
| C | 69 | 1 | 0 | | | | | 70 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 7 | 61 | | | | | 142 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 4 | 7.98 | 6 | | | | | 17.98 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 301 | 552 | | | | | 853 |
| B | 140 | 0 | 36 | | | | | 176 |
| C | 602 | 57 | 0 | | | | | 660 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 742 | 358 | 589 | | | | | 1689 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 270 | 489 | | | | | 760 |
| B | 120 | 0 | 26 | | | | | 146 |
| C | 532 | 41 | 0 | | | | | 574 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 653 | 312 | 515 | | | | | 1479 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 39 | | | | | 63 |
| B | 10 | 0 | 4 | | | | | 14 |
| C | 39 | 10 | 0 | | | | | 49 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 34 | 43 | | | | | 127 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 25 | | | | | 26 |
| B | 7 | 0 | 0 | | | | | 7 |
| C | 31 | 0 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 2 | 25 | | | | | 64 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 9.9 | 5.96 | | | | | 17.85 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / A56 Manchester Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 620 | 575 | | | | | 1195 |
| B | 437 | 0 | 90 | | | | | 527 |
| C | 721 | 140 | 0 | | | | | 860 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1158 | 760 | 665 | | | | | 2582 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 511 | 465 | | | | | 976 |
| B | 366 | 0 | 67 | | | | | 433 |
| C | 636 | 101 | 0 | | | | | 737 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1002 | 612 | 532 | | | | | 2146 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 56 | | | | | 108 |
| B | 47 | 0 | 12 | | | | | 59 |
| C | 44 | 25 | 0 | | | | | 69 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 91 | 77 | 68 | | | | | 236 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 33 | | | | | 85 |
| B | 19 | 0 | 10 | | | | | 29 |
| C | 21 | 14 | 0 | | | | | 35 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 65 | 44 | | | | | 149 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 6 | 20 | | | | | 52 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 403 | 586 | | | | | 989 |
| B | 378 | 0 | 166 | | | | | 545 |
| C | 632 | 176 | 0 | | | | | 808 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1010 | 579 | 752 | | | | | 2341 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 298 | 463 | | | | | 761 |
| B | 284 | 0 | 120 | | | | | 403 |
| C | 496 | 122 | 0 | | | | | 618 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 780 | 419 | 583 | | | | | 1782 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 55 | 68 | | | | | 123 |
| B | 51 | 0 | 23 | | | | | 74 |
| C | 79 | 29 | 0 | | | | | 107 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 130 | 84 | 92 | | | | | 305 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 35 | | | | | 79 |
| B | 38 | 0 | 23 | | | | | 61 |
| C | 35 | 26 | 0 | | | | | 60 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 73 | 70 | 58 | | | | | 200 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.93 | 5.99 | 19.96 | | | | | 53.88 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 504 | 591 | | | | | 1095 |
| B | 487 | 0 | 101 | | | | | 588 |
| C | 754 | 155 | 0 | | | | | 910 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1241 | 660 | 692 | | | | | 2593 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 450 | 513 | | | | | 963 |
| B | 427 | 0 | 88 | | | | | 515 |
| C | 663 | 123 | 0 | | | | | 786 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1090 | 574 | 601 | | | | | 2265 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 50 | | | | | 76 |
| B | 34 | 0 | 9 | | | | | 43 |
| C | 61 | 22 | 0 | | | | | 83 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 49 | 59 | | | | | 202 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 8 | | | | | 30 |
| B | 21 | 0 | 4 | | | | | 25 |
| C | 11 | 10 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 31 | 12 | | | | | 75 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 25.66 | 5.98 | 19.95 | | | | | 51.59 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 26859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 966 | 3049 | 791 | | | | 4806 |
| B | 548 | 0 | 1123 | 3998 | | | | 5669 |
| C | 2533 | 713 | 0 | 1836 | | | | 5082 |
| D | 1265 | 4738 | 2254 | 0 | | | | 8257 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4346 | 6417 | 6426 | 6625 | | | | 23814 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 795 | 2063 | 460 | | | | 3318 |
| B | 511 | 0 | 809 | 2003 | | | | 3323 |
| C | 1752 | 434 | 0 | 1112 | | | | 3298 |
| D | 693 | 2278 | 1366 | 0 | | | | 4337 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2956 | 3507 | 4238 | 3575 | | | | 14276 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 161 | 597 | 130 | | | | 888 |
| B | 37 | 0 | 111 | 665 | | | | 813 |
| C | 380 | 110 | 0 | 492 | | | | 982 |
| D | 325 | 841 | 481 | 0 | | | | 1647 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 742 | 1112 | 1189 | 1287 | | | | 4330 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 389 | 201 | | | | 600 |
| B | 0 | 0 | 203 | 1330 | | | | 1533 |
| C | 401 | 169 | 0 | 232 | | | | 802 |
| D | 247 | 1619 | 407 | 0 | | | | 2273 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 648 | 1798 | 999 | 1763 | | | | 5208 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 807 | 1665 | 845 | | | | 3317 |
| B | 448 | 0 | 549 | 4723 | | | | 5720 |
| C | 2094 | 216 | 0 | 1219 | | | | 3529 |
| D | 1199 | 4911 | 2049 | 0 | | | | 8159 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3741 | 5934 | 4263 | 6787 | | | | 20725 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 603 | 1024 | 368 | | | | 1995 |
| B | 441 | 0 | 383 | 2278 | | | | 3102 |
| C | 1404 | 116 | 0 | 594 | | | | 2114 |
| D | 492 | 2308 | 1118 | 0 | | | | 3918 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2337 | 3027 | 2525 | 3240 | | | | 11129 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 96 | 358 | 194 | | | | 648 |
| B | 7 | 0 | 86 | 908 | | | | 1001 |
| C | 356 | 28 | 0 | 315 | | | | 699 |
| D | 277 | 904 | 409 | 0 | | | | 1590 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 640 | 1028 | 853 | 1417 | | | | 3938 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 108 | 283 | 283 | | | | 674 |
| B | 0 | 0 | 80 | 1537 | | | | 1617 |
| C | 334 | 72 | 0 | 310 | | | | 716 |
| D | 430 | 1699 | 522 | 0 | | | | 2651 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 764 | 1879 | 885 | 2130 | | | | 5658 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 843 | 2162 | 852 | | | | 3857 |
| B | 200 | 0 | 799 | 4844 | | | | 5843 |
| C | 3362 | 419 | 0 | 1127 | | | | 4908 |
| D | 1447 | 4365 | 2287 | 0 | | | | 8099 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5009 | 5627 | 5248 | 6823 | | | | 22707 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 769 | 1784 | 564 | | | | 3117 |
| B | 192 | 0 | 741 | 3174 | | | | 4107 |
| C | 2776 | 325 | 0 | 794 | | | | 3895 |
| D | 1033 | 2913 | 1641 | 0 | | | | 5587 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4001 | 4007 | 4166 | 4532 | | | | 16706 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 288 | 153 | | | | 512 |
| B | 8 | 0 | 35 | 640 | | | | 683 |
| C | 396 | 61 | 0 | 253 | | | | 710 |
| D | 232 | 575 | 381 | 0 | | | | 1188 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 636 | 707 | 704 | 1046 | | | | 3093 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 90 | 135 | | | | 228 |
| B | 0 | 0 | 23 | 1030 | | | | 1053 |
| C | 190 | 33 | 0 | 80 | | | | 303 |
| D | 182 | 877 | 265 | 0 | | | | 1324 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 372 | 913 | 378 | 1245 | | | | 2908 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | JTC 20 - A627 SB |
| B | 2727 | 2724 | 2723 | 2725 | JTC 20 - M62 WB |
| C | 2768 | 4932 | 4929 | 2767 | JTC 20 - A627 NB |
| D | 2719 | 2721 | 2722 | 2720 | JTC 20 - M62 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 164 | 834 | 738 | | | | 1736 |
| B | 189 | 0 | 823 | 4501 | | | | 5513 |
| C | 809 | 555 | 0 | 688 | | | | 2052 |
| D | 956 | 4598 | 1038 | 0 | | | | 6592 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1954 | 5317 | 2695 | 5927 | | | | 15893 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 121 | 678 | 443 | | | | 1242 |
| B | 164 | 0 | 629 | 2386 | | | | 3179 |
| C | 654 | 326 | 0 | 465 | | | | 1445 |
| D | 565 | 2267 | 694 | 0 | | | | 3526 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1383 | 2714 | 2001 | 3294 | | | | 9392 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 70 | 98 | | | | 187 |
| B | 22 | 0 | 95 | 675 | | | | 792 |
| C | 100 | 65 | 0 | 117 | | | | 282 |
| D | 130 | 786 | 190 | 0 | | | | 1106 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 252 | 870 | 355 | 890 | | | | 2367 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 86 | 197 | | | | 307 |
| B | 3 | 0 | 99 | 1440 | | | | 1542 |
| C | 55 | 164 | 0 | 106 | | | | 325 |
| D | 261 | 1545 | 154 | 0 | | | | 1960 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 319 | 1733 | 339 | 1743 | | | | 4134 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 105 | 656 | 663 | | | | 1424 |
| B | 240 | 0 | 729 | 4148 | | | | 5117 |
| C | 364 | 621 | 0 | 811 | | | | 1796 |
| D | 775 | 4856 | 686 | 0 | | | | 6317 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1379 | 5582 | 2071 | 5622 | | | | 14654 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 483 | 369 | | | | 911 |
| B | 92 | 0 | 326 | 2107 | | | | 2525 |
| C | 205 | 298 | 0 | 560 | | | | 1063 |
| D | 532 | 2257 | 490 | 0 | | | | 3279 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 829 | 2614 | 1299 | 3036 | | | | 7778 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 108 | 120 | | | | 238 |
| B | 16 | 0 | 132 | 661 | | | | 809 |
| C | 91 | 88 | 0 | 170 | | | | 349 |
| D | 129 | 791 | 135 | 0 | | | | 1055 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 236 | 889 | 375 | 951 | | | | 2451 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 65 | 174 | | | | 275 |
| B | 132 | 0 | 271 | 1380 | | | | 1783 |
| C | 68 | 235 | 0 | 81 | | | | 384 |
| D | 114 | 1808 | 61 | 0 | | | | 1983 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 314 | 2079 | 397 | 1635 | | | | 4425 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 146 | 843 | 906 | | | | 1895 |
| B | 136 | 0 | 763 | 3934 | | | | 4833 |
| C | 859 | 997 | 0 | 868 | | | | 2724 |
| D | 693 | 4687 | 860 | 0 | | | | 6240 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1688 | 5830 | 2466 | 5708 | | | | 15692 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 109 | 657 | 603 | | | | 1369 |
| B | 96 | 0 | 615 | 2540 | | | | 3251 |
| C | 768 | 790 | 0 | 690 | | | | 2248 |
| D | 583 | 3232 | 748 | 0 | | | | 4563 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1447 | 4131 | 2020 | 3833 | | | | 11431 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 102 | 115 | | | | 239 |
| B | 7 | 0 | 64 | 488 | | | | 559 |
| C | 80 | 111 | 0 | 107 | | | | 298 |
| D | 73 | 581 | 78 | 0 | | | | 732 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 160 | 714 | 244 | 710 | | | | 1828 |

HGV

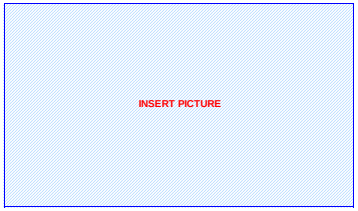
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 84 | 188 | | | | 287 |
| B | 33 | 0 | 84 | 906 | | | | 1023 |
| C | 11 | 96 | 0 | 71 | | | | 178 |
| D | 37 | 874 | 34 | 0 | | | | 945 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 985 | 202 | 1165 | | | | 2433 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J19




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | *JTC 21 - M60 SB* |
| B | 14141 | 5666 | 5093 | 14141 | *JTC 21 - A576 WB* |
| C | 5668 | 5665 | 5667 | 5669 | *JTC 21 - M60 NB* |
| D | 3414 | 5096 | 5095 | 3414 | *JTC 21 - A576 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 524 | 0 | 935 | | | | 1459 |
| B | 470 | 0 | 259 | 358 | | | | 1087 |
| C | 0 | 220 | 48 | 550 | | | | 818 |
| D | 654 | 137 | 509 | 0 | | | | 1300 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1124 | 881 | 816 | 1843 | | | | 4664 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 404 | 0 | 777 | | | | 1181 |
| B | 346 | 0 | 200 | 322 | | | | 868 |
| C | 0 | 158 | 41 | 465 | | | | 664 |
| D | 515 | 123 | 436 | 0 | | | | 1074 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 861 | 685 | 677 | 1564 | | | | 3787 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 72 | 0 | 70 | | | | 142 |
| B | 57 | 0 | 49 | 35 | | | | 141 |
| C | 0 | 22 | 7 | 63 | | | | 92 |
| D | 54 | 11 | 56 | 0 | | | | 121 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 111 | 105 | 112 | 168 | | | | 496 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 0 | 88 | | | | 136 |
| B | 67 | 0 | 10 | 1 | | | | 78 |
| C | 0 | 40 | 0 | 22 | | | | 62 |
| D | 85 | 3 | 17 | 0 | | | | 105 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 152 | 91 | 27 | 111 | | | | 381 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 385 | 0 | 591 | | | | 976 |
| B | 239 | 0 | 245 | 301 | | | | 785 |
| C | 0 | 309 | 4 | 469 | | | | 782 |
| D | 340 | 399 | 534 | 0 | | | | 1273 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 579 | 1093 | 783 | 1361 | | | | 3816 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 279 | 0 | 455 | | | | 734 |
| B | 173 | 0 | 158 | 270 | | | | 601 |
| C | 0 | 188 | 4 | 372 | | | | 564 |
| D | 249 | 360 | 422 | 0 | | | | 1031 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 422 | 827 | 584 | 1097 | | | | 2930 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 0 | 82 | | | | 153 |
| B | 38 | 0 | 36 | 27 | | | | 101 |
| C | 0 | 68 | 0 | 64 | | | | 132 |
| D | 47 | 32 | 76 | 0 | | | | 155 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 85 | 171 | 112 | 173 | | | | 541 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 0 | 54 | | | | 89 |
| B | 28 | 0 | 51 | 4 | | | | 83 |
| C | 0 | 53 | 0 | 33 | | | | 86 |
| D | 44 | 7 | 36 | 0 | | | | 87 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 95 | 87 | 91 | | | | 345 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 437 | 0 | 813 | | | | 1250 |
| B | 222 | 0 | 147 | 392 | | | | 761 |
| C | 10 | 511 | 13 | 568 | | | | 1102 |
| D | 890 | 672 | 753 | 0 | | | | 2315 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1122 | 1620 | 913 | 1773 | | | | 5428 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 361 | 0 | 750 | | | | 1111 |
| B | 189 | 0 | 126 | 360 | | | | 675 |
| C | 7 | 443 | 12 | 514 | | | | 976 |
| D | 785 | 622 | 690 | 0 | | | | 2097 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 981 | 1426 | 828 | 1624 | | | | 4859 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 0 | 44 | | | | 96 |
| B | 23 | 0 | 16 | 30 | | | | 69 |
| C | 2 | 53 | 1 | 54 | | | | 110 |
| D | 86 | 49 | 57 | 0 | | | | 192 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 111 | 154 | 74 | 128 | | | | 467 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 0 | 19 | | | | 43 |
| B | 10 | 0 | 5 | 2 | | | | 17 |
| C | 1 | 15 | 0 | 0 | | | | 16 |
| D | 19 | 1 | 6 | 0 | | | | 26 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 40 | 11 | 21 | | | | 102 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A576 Middleton Road / A6045 Heywood Old Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 3 | 528 | | | | 581 |
| B | 62 | 0 | 3 | 562 | | | | 628 |
| C | 3 | 4 | 0 | 15 | | | | 22 |
| D | 250 | 638 | 9 | 0 | | | | 897 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 315 | 692 | 15 | 1105 | | | | 2128 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 3 | 443 | | | | 489 |
| B | 45 | 0 | 1 | 414 | | | | 459 |
| C | 2 | 2 | 0 | 11 | | | | 15 |
| D | 202 | 476 | 7 | 0 | | | | 685 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 250 | 522 | 11 | 867 | | | | 1649 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 0 | 67 | | | | 74 |
| B | 10 | 0 | 0 | 71 | | | | 81 |
| C | 0 | 1 | 0 | 3 | | | | 4 |
| D | 22 | 82 | 1 | 0 | | | | 105 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 89 | 2 | 141 | | | | 264 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 18 | | | | 18 |
| B | 8 | 0 | 1 | 59 | | | | 69 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 25 | 64 | 2 | 0 | | | | 91 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 65 | 3 | 79 | | | | 180 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 34 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 92 | 6 | 293 | | | | 391 |
| B | 97 | 0 | 5 | 502 | | | | 603 |
| C | 4 | 4 | 0 | 7 | | | | 16 |
| D | 478 | 624 | 8 | 0 | | | | 1110 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 580 | 720 | 18 | 802 | | | | 2120 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 4 | 239 | | | | 317 |
| B | 78 | 0 | 3 | 355 | | | | 436 |
| C | 3 | 3 | 0 | 6 | | | | 11 |
| D | 375 | 446 | 6 | 0 | | | | 827 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 456 | 523 | 13 | 600 | | | | 1592 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 1 | 31 | | | | 44 |
| B | 13 | 0 | 1 | 70 | | | | 84 |
| C | 1 | 1 | 0 | 1 | | | | 3 |
| D | 67 | 103 | 1 | 0 | | | | 171 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 82 | 116 | 3 | 101 | | | | 303 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 1 | 23 | | | | 29 |
| B | 6 | 0 | 1 | 59 | | | | 65 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 36 | 57 | 1 | 0 | | | | 94 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 42 | 63 | 2 | 83 | | | | 190 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.9 | 0 | 17.97 | | | | 35.87 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 88 | 3 | 316 | | | | 407 |
| B | 155 | 0 | 4 | 454 | | | | 613 |
| C | 5 | 4 | 0 | 5 | | | | 15 |
| D | 860 | 769 | 10 | 0 | | | | 1639 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1021 | 862 | 16 | 775 | | | | 2673 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 79 | 3 | 286 | | | | 368 |
| B | 137 | 0 | 3 | 384 | | | | 524 |
| C | 5 | 3 | 0 | 3 | | | | 12 |
| D | 780 | 639 | 8 | 0 | | | | 1427 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 922 | 721 | 14 | 673 | | | | 2331 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | 23 | | | | 31 |
| B | 17 | 0 | 0 | 45 | | | | 62 |
| C | 0 | 0 | 0 | 1 | | | | 2 |
| D | 67 | 87 | 1 | 0 | | | | 155 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 84 | 95 | 1 | 69 | | | | 249 |

HGV

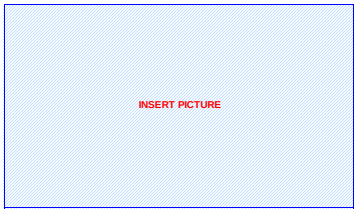
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | 6 | | | | 8 |
| B | 1 | 0 | 0 | 10 | | | | 11 |
| C | 0 | 1 | 0 | 1 | | | | 1 |
| D | 13 | 26 | 1 | 0 | | | | 40 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 15 | 28 | 1 | 17 | | | | 61 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.51 | 0 | 15.84 | | | | 33.35 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 969 | | | | | 1016 |
| B | 0 | 0 | 1089 | | | | | 1089 |
| C | 1711 | 661 | 0 | | | | | 2372 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1711 | 708 | 2058 | | | | | 4477 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 699 | | | | | 733 |
| B | 0 | 0 | 784 | | | | | 784 |
| C | 1274 | 501 | 0 | | | | | 1775 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1274 | 535 | 1483 | | | | | 3293 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 110 | | | | | 116 |
| B | 0 | 0 | 200 | | | | | 200 |
| C | 163 | 99 | 0 | | | | | 262 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 163 | 105 | 310 | | | | | 578 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 131 | | | | | 137 |
| B | 0 | 0 | 105 | | | | | 105 |
| C | 242 | 62 | 0 | | | | | 304 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 242 | 68 | 235 | | | | | 545 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 29 | | | | | 29 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 31 | 0 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 0 | 29 | | | | | 61 |

### Model_2_Heywood_DS3b_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 844 | | | | | 845 |
| B | 0 | 0 | 955 | | | | | 955 |
| C | 1415 | 580 | 0 | | | | | 1996 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1415 | 581 | 1799 | | | | | 3795 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 588 | | | | | 588 |
| B | 0 | 0 | 637 | | | | | 637 |
| C | 990 | 377 | 0 | | | | | 1367 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 990 | 378 | 1225 | | | | | 2592 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 101 | | | | | 101 |
| B | 0 | 0 | 183 | | | | | 183 |
| C | 189 | 123 | 0 | | | | | 312 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 189 | 123 | 285 | | | | | 596 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 125 | | | | | 125 |
| B | 0 | 0 | 135 | | | | | 135 |
| C | 205 | 80 | 0 | | | | | 285 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 205 | 80 | 260 | | | | | 545 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.77 | 0 | 29.81 | | | | | 61.58 |

### Model_3_Heywood_DS3b_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 952 | | | | | 957 |
| B | 0 | 0 | 982 | | | | | 982 |
| C | 1627 | 705 | 0 | | | | | 2332 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1627 | 710 | 1934 | | | | | 4271 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 856 | | | | | 858 |
| B | 0 | 0 | 878 | | | | | 878 |
| C | 1430 | 591 | 0 | | | | | 2021 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1430 | 594 | 1734 | | | | | 3757 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 48 | | | | | 49 |
| B | 0 | 0 | 74 | | | | | 74 |
| C | 111 | 73 | 0 | | | | | 184 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 111 | 74 | 122 | | | | | 307 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 21 | | | | | 22 |
| B | 0 | 0 | 30 | | | | | 30 |
| C | 57 | 41 | 0 | | | | | 98 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 42 | 52 | | | | | 151 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.18 | 0 | 27.34 | | | | | 56.52 |

## Run 21 - 2039 Do Something 3 - S.3.2 – Policy On - Origin-Destination Matrices

- Policy On ( Vision-Led)
- including all of the JPA1.1 Allocation Site & all of the JPA1.2 Allocation Site
- excluding the M62 Access solution
- including Common Highway Mitigation Package and J18 DCO works
- Whittle Lane capacity constrained and South Heywood Link Closed

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60057 | 60011 | 4924 | 2718 | C1-M62 WJC1-M62 West |
| E | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizabe |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 237 | 225 | 520 | 7 | | | 989 |
| B | 226 | 0 | 126 | 0 | 600 | | | 952 |
| C | 231 | 104 | 0 | 265 | 122 | | | 722 |
| D | 239 | 0 | 141 | 2 | 252 | | | 634 |
| E | 3 | 414 | 116 | 147 | 0 | | | 680 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 699 | 755 | 608 | 934 | 981 | | | 3977 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 180 | 176 | 391 | 6 | | | 753 |
| B | 155 | 0 | 43 | 0 | 306 | | | 504 |
| C | 192 | 82 | 0 | 230 | 63 | | | 567 |
| D | 153 | 0 | 122 | 0 | 151 | | | 426 |
| E | 2 | 210 | 58 | 118 | 0 | | | 388 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 502 | 472 | 399 | 739 | 526 | | | 2638 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 45 | 50 | 1 | | | 146 |
| B | 35 | 0 | 51 | 0 | 74 | | | 160 |
| C | 35 | 4 | 0 | 30 | 32 | | | 101 |
| D | 51 | 0 | 11 | 1 | 16 | | | 79 |
| E | 1 | 34 | 10 | 21 | 0 | | | 66 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 88 | 117 | 102 | 123 | | | 552 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 4 | 79 | 0 | | | 90 |
| B | 36 | 0 | 32 | 0 | 220 | | | 288 |
| C | 4 | 18 | 0 | 5 | 27 | | | 54 |
| D | 35 | 0 | 8 | 1 | 85 | | | 129 |
| E | 0 | 170 | 48 | 8 | 0 | | | 226 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 195 | 92 | 93 | 332 | | | 787 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 207 | 243 | 283 | 0 | | | 733 |
| B | 170 | 0 | 78 | 0 | 256 | | | 504 |
| C | 184 | 168 | 0 | 238 | 108 | | | 698 |
| D | 222 | 0 | 101 | 8 | 174 | | | 505 |
| E | 5 | 321 | 100 | 34 | 0 | | | 460 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 581 | 696 | 522 | 563 | 538 | | | 2900 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 148 | 212 | 170 | 0 | | | 530 |
| B | 108 | 0 | 59 | 0 | 81 | | | 248 |
| C | 152 | 100 | 0 | 167 | 64 | | | 483 |
| D | 125 | 0 | 73 | 0 | 42 | | | 240 |
| E | 3 | 78 | 47 | 7 | 0 | | | 135 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 388 | 326 | 391 | 344 | 187 | | | 1636 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 23 | 50 | 0 | | | 116 |
| B | 34 | 0 | 13 | 0 | 26 | | | 73 |
| C | 22 | 19 | 0 | 46 | 8 | | | 95 |
| D | 45 | 0 | 23 | 1 | 21 | | | 90 |
| E | 2 | 47 | 7 | 3 | 0 | | | 59 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 103 | 109 | 66 | 100 | 55 | | | 433 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 8 | 63 | 0 | | | 87 |
| B | 28 | 0 | 6 | 0 | 149 | | | 183 |
| C | 10 | 49 | 0 | 25 | 36 | | | 120 |
| D | 52 | 0 | 5 | 7 | 111 | | | 175 |
| E | 0 | 196 | 46 | 24 | 0 | | | 266 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 90 | 261 | 65 | 119 | 296 | | | 831 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 250 | 231 | 360 | 1 | | | 842 |
| B | 199 | 0 | 185 | 0 | 287 | | | 671 |
| C | 291 | 109 | 0 | 260 | 128 | | | 788 |
| D | 289 | 0 | 185 | 0 | 155 | | | 629 |
| E | 15 | 572 | 85 | 14 | 0 | | | 686 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 794 | 931 | 686 | 634 | 571 | | | 3616 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 209 | 212 | 331 | 1 | | | 753 |
| B | 151 | 0 | 154 | 0 | 136 | | | 441 |
| C | 275 | 91 | 0 | 214 | 108 | | | 688 |
| D | 248 | 0 | 153 | 0 | 100 | | | 501 |
| E | 14 | 459 | 58 | 5 | 0 | | | 536 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 688 | 759 | 577 | 550 | 345 | | | 2919 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 16 | 20 | 0 | | | 65 |
| B | 30 | 0 | 27 | 0 | 22 | | | 79 |
| C | 15 | 18 | 0 | 26 | 10 | | | 69 |
| D | 23 | 0 | 29 | 0 | 11 | | | 63 |
| E | 1 | 25 | 4 | 1 | 0 | | | 31 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 69 | 72 | 76 | 47 | 43 | | | 307 |

MODELLED — HGV

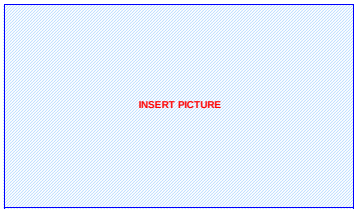
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 3 | 9 | 0 | | | 24 |
| B | 18 | 0 | 4 | 0 | 129 | | | 151 |
| C | 1 | 0 | 0 | 20 | 10 | | | 31 |
| D | 18 | 0 | 3 | 0 | 44 | | | 65 |
| E | 0 | 88 | 23 | 8 | 0 | | | 119 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 37 | 100 | 33 | 37 | 183 | | | 390 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | 045 Manchester Road |
| B | 60003 | 60010 | 60010 | 60003 | d Queen Elizabeth Wa |
| C | 2814 | 60010 | 60010 | 2814 | 045 Manchester Road |
| D | 60008 | 60010 | 60010 | 60008 | d Queen Elizabeth Wa |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 235 | 182 | 97 | | | | 514 |
| B | 118 | 0 | 186 | 676 | | | | 980 |
| C | 236 | 76 | 0 | 95 | | | | 406 |
| D | 46 | 370 | 29 | 0 | | | | 445 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 400 | 680 | 398 | 868 | | | | 2346 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 189 | 159 | 84 | | | | 432 |
| B | 92 | 0 | 156 | 277 | | | | 526 |
| C | 204 | 66 | 0 | 89 | | | | 358 |
| D | 36 | 134 | 26 | 0 | | | | 195 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 332 | 388 | 341 | 450 | | | | 1512 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 15 | 12 | | | | 59 |
| B | 11 | 0 | 29 | 82 | | | | 122 |
| C | 22 | 9 | 0 | 2 | | | | 33 |
| D | 7 | 25 | 3 | 0 | | | | 35 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 65 | 46 | 97 | | | | 249 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 7 | 1 | | | | 21 |
| B | 15 | 0 | 1 | 316 | | | | 332 |
| C | 10 | 2 | 0 | 3 | | | | 15 |
| D | 3 | 212 | 1 | 0 | | | | 215 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 28 | 227 | 9 | 321 | | | | 584 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 187 | 48 | | | | 268 |
| B | 89 | 0 | 58 | 395 | | | | 541 |
| C | 285 | 59 | 0 | 38 | | | | 381 |
| D | 51 | 370 | 16 | 0 | | | | 437 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 425 | 461 | 261 | 480 | | | | 1627 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 155 | 39 | | | | 213 |
| B | 67 | 0 | 42 | 80 | | | | 189 |
| C | 216 | 40 | 0 | 28 | | | | 284 |
| D | 34 | 76 | 14 | 0 | | | | 124 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 317 | 135 | 211 | 146 | | | | 809 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 24 | 9 | | | | 37 |
| B | 10 | 0 | 14 | 32 | | | | 56 |
| C | 38 | 15 | 0 | 4 | | | | 57 |
| D | 12 | 40 | 1 | 0 | | | | 53 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 60 | 60 | 40 | 44 | | | | 203 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 6 | 0 | | | | 16 |
| B | 12 | 0 | 2 | 284 | | | | 297 |
| C | 29 | 3 | 0 | 6 | | | | 39 |
| D | 5 | 254 | 1 | 0 | | | | 260 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 46 | 267 | 9 | 290 | | | | 611 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 215 | 40 | | | | 283 |
| B | 110 | 0 | 83 | 380 | | | | 572 |
| C | 424 | 207 | 0 | 47 | | | | 678 |
| D | 54 | 455 | 26 | 0 | | | | 536 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 588 | 690 | 324 | 467 | | | | 2068 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 197 | 31 | | | | 246 |
| B | 94 | 0 | 71 | 182 | | | | 347 |
| C | 372 | 190 | 0 | 41 | | | | 603 |
| D | 44 | 331 | 24 | 0 | | | | 399 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 510 | 540 | 291 | 253 | | | | 1594 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 13 | 7 | | | | 22 |
| B | 10 | 0 | 10 | 24 | | | | 43 |
| C | 35 | 16 | 0 | 5 | | | | 56 |
| D | 5 | 12 | 1 | 0 | | | | 19 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 31 | 24 | 35 | | | | 140 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 3 | 1 | | | | 12 |
| B | 6 | 0 | 2 | 175 | | | | 183 |
| C | 15 | 0 | 0 | 2 | | | | 17 |
| D | 5 | 111 | 1 | 0 | | | | 118 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 119 | 7 | 178 | | | | 330 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.97 | 0 | 1.99 | 0 | | | | 3.96 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Hill Top Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | rehills Rd EB |
| B | 60036 | 60031 | 60031 | 60036 | ill Top Road |
| C | 60230 | 7454 | 7454 | 60230 | rehills Rd SB |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 142 | 432 | 0 | | | | 574 |
| B | 100 | 0 | 11 | 0 | | | | 111 |
| C | 781 | 85 | 0 | 1 | | | | 867 |
| D | 1 | 0 | 0 | 0 | | | | 1 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 882 | 227 | 443 | 1 | | | | 1553 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 86 | 191 | 0 | | | | 277 |
| B | 17 | 0 | 3 | 0 | | | | 20 |
| C | 388 | 61 | 0 | 1 | | | | 450 |
| D | 1 | 0 | 0 | 0 | | | | 1 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 406 | 147 | 194 | 1 | | | | 748 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 34 | 0 | | | | 41 |
| B | 6 | 0 | 0 | 0 | | | | 6 |
| C | 93 | 4 | 0 | 0 | | | | 97 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 99 | 11 | 34 | 0 | | | | 144 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 49 | 207 | 0 | | | | 256 |
| B | 77 | 0 | 8 | 0 | | | | 85 |
| C | 300 | 20 | 0 | 0 | | | | 320 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 377 | 69 | 215 | 0 | | | | 661 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 390 | 0 | | | | 463 |
| B | 99 | 0 | 46 | 0 | | | | 145 |
| C | 425 | 56 | 0 | 0 | | | | 481 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 524 | 129 | 436 | 0 | | | | 1089 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 107 | 0 | | | | 137 |
| B | 46 | 0 | 16 | 0 | | | | 62 |
| C | 131 | 15 | 0 | 0 | | | | 146 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 177 | 45 | 123 | 0 | | | | 345 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 47 | 0 | | | | 56 |
| B | 12 | 0 | 6 | 0 | | | | 18 |
| C | 38 | 6 | 0 | 0 | | | | 44 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 15 | 53 | 0 | | | | 118 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 236 | 0 | | | | 270 |
| B | 41 | 0 | 24 | 0 | | | | 65 |
| C | 256 | 35 | 0 | 0 | | | | 291 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 297 | 69 | 260 | 0 | | | | 626 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 55 | 482 | 1 | | | | 538 |
| B | 135 | 0 | 52 | 0 | | | | 187 |
| C | 433 | 33 | 0 | 0 | | | | 466 |
| D | 0 | 0 | 1 | 0 | | | | 1 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 568 | 88 | 535 | 1 | | | | 1192 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 363 | 1 | | | | 390 |
| B | 110 | 0 | 35 | 0 | | | | 145 |
| C | 232 | 20 | 0 | 0 | | | | 252 |
| D | 0 | 0 | 1 | 0 | | | | 1 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 342 | 46 | 399 | 1 | | | | 788 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 12 | 0 | | | | 14 |
| B | 3 | 0 | 6 | 0 | | | | 9 |
| C | 35 | 1 | 0 | 0 | | | | 36 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 3 | 18 | 0 | | | | 59 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 107 | 0 | | | | 134 |
| B | 22 | 0 | 11 | 0 | | | | 33 |
| C | 166 | 12 | 0 | 0 | | | | 178 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 188 | 39 | 118 | 0 | | | | 345 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Pilsworth Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 175 | 404 | | | | | 579 |
| B | 414 | 0 | 172 | | | | | 587 |
| C | 692 | 189 | 0 | | | | | 881 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1106 | 364 | 576 | | | | | 2047 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 107 | 148 | | | | | 254 |
| B | 306 | 0 | 130 | | | | | 436 |
| C | 260 | 145 | 0 | | | | | 404 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 565 | 251 | 278 | | | | | 1095 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 20 | | | | | 35 |
| B | 37 | 0 | 21 | | | | | 59 |
| C | 79 | 20 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 117 | 35 | 42 | | | | | 193 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 236 | | | | | 290 |
| B | 72 | 0 | 20 | | | | | 92 |
| C | 353 | 25 | 0 | | | | | 377 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 424 | 78 | 256 | | | | | 759 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 249 | 396 | | | | | 645 |
| B | 215 | 0 | 67 | | | | | 282 |
| C | 402 | 122 | 0 | | | | | 524 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 617 | 371 | 463 | | | | | 1451 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 126 | 95 | | | | | 221 |
| B | 120 | 0 | 42 | | | | | 161 |
| C | 95 | 82 | 0 | | | | | 177 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 215 | 208 | 137 | | | | | 560 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 46 | | | | | 79 |
| B | 29 | 0 | 10 | | | | | 39 |
| C | 32 | 18 | 0 | | | | | 50 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 60 | 51 | 56 | | | | | 168 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 255 | | | | | 345 |
| B | 67 | 0 | 15 | | | | | 82 |
| C | 275 | 22 | 0 | | | | | 297 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 342 | 112 | 269 | | | | | 723 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 324 | 466 | | | | | 790 |
| B | 210 | 0 | 71 | | | | | 281 |
| C | 376 | 191 | 0 | | | | | 568 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 586 | 515 | 537 | | | | | 1638 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 270 | 332 | | | | | 602 |
| B | 162 | 0 | 56 | | | | | 218 |
| C | 174 | 168 | 0 | | | | | 342 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 336 | 438 | 389 | | | | | 1163 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 8 | | | | | 26 |
| B | 9 | 0 | 6 | | | | | 15 |
| C | 21 | 17 | 0 | | | | | 37 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 29 | 35 | 14 | | | | | 78 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 125 | | | | | 161 |
| B | 39 | 0 | 8 | | | | | 48 |
| C | 182 | 6 | 0 | | | | | 188 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 221 | 42 | 134 | | | | | 397 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / A58 Bury St

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 470 | 112 | | | | | 582 |
| B | 542 | 0 | 436 | | | | | 978 |
| C | 128 | 305 | 0 | | | | | 433 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 671 | 775 | 548 | | | | | 1993 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 345 | 94 | | | | | 439 |
| B | 375 | 0 | 309 | | | | | 684 |
| C | 107 | 213 | 0 | | | | | 319 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 482 | 558 | 403 | | | | | 1442 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 10 | | | | | 87 |
| B | 88 | 0 | 35 | | | | | 123 |
| C | 17 | 23 | 0 | | | | | 40 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 99 | 46 | | | | | 249 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 8 | | | | | 46 |
| B | 70 | 0 | 72 | | | | | 142 |
| C | 5 | 51 | 0 | | | | | 56 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 90 | 80 | | | | | 244 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 29 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 28 | 20 | | | | | 57 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 483 | 62 | | | | | 545 |
| B | 464 | 0 | 273 | | | | | 736 |
| C | 90 | 308 | 0 | | | | | 399 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 554 | 792 | 335 | | | | | 1681 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 354 | 48 | | | | | 402 |
| B | 334 | 0 | 167 | | | | | 501 |
| C | 73 | 177 | 0 | | | | | 250 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 407 | 531 | 215 | | | | | 1152 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 10 | | | | | 70 |
| B | 70 | 0 | 30 | | | | | 99 |
| C | 11 | 29 | 0 | | | | | 40 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 89 | 40 | | | | | 210 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 5 | | | | | 64 |
| B | 50 | 0 | 56 | | | | | 106 |
| C | 6 | 85 | 0 | | | | | 91 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 144 | 61 | | | | | 261 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.95 | 27.93 | 19.89 | | | | | 57.77 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 542 | 63 | | | | | 604 |
| B | 517 | 0 | 299 | | | | | 816 |
| C | 150 | 308 | 0 | | | | | 457 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 667 | 849 | 362 | | | | | 1878 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 496 | 55 | | | | | 550 |
| B | 458 | 0 | 224 | | | | | 682 |
| C | 140 | 266 | 0 | | | | | 406 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 598 | 762 | 279 | | | | | 1638 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 6 | | | | | 37 |
| B | 39 | 0 | 23 | | | | | 62 |
| C | 9 | 20 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 51 | 29 | | | | | 127 |

MODELLED — HGV

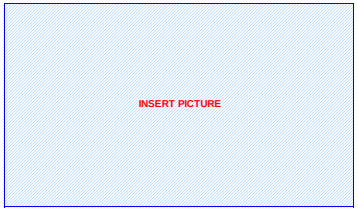
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 2 | | | | | 9 |
| B | 13 | 0 | 32 | | | | | 45 |
| C | 1 | 4 | 0 | | | | | 5 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 14 | 11 | 34 | | | | | 58 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 20 | | | | | 28 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.92 | 25.87 | 19.81 | | | | | 53.6 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / Heywood Distribution Centre




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | Pilsworth Rd NB |
| B | 20430 | 7459 | 7459 | 20430 | ywood Distribution Cer |
| C | 2813 | 7459 | 7459 | 2813 | Pilsworth Rd SB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 139 | 497 | | | | | 636 |
| B | 81 | 0 | 81 | | | | | 163 |
| C | 864 | 242 | 0 | | | | | 1106 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 946 | 381 | 579 | | | | | 1905 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 101 | 237 | | | | | 338 |
| B | 15 | 0 | 17 | | | | | 33 |
| C | 443 | 123 | 0 | | | | | 565 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 458 | 224 | 254 | | | | | 936 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 28 | | | | | 35 |
| B | 12 | 0 | 7 | | | | | 19 |
| C | 98 | 18 | 0 | | | | | 117 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 110 | 26 | 35 | | | | | 171 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 233 | | | | | 263 |
| B | 54 | 0 | 57 | | | | | 111 |
| C | 323 | 101 | 0 | | | | | 424 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 378 | 131 | 290 | | | | | 799 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 530 | | | | | 583 |
| B | 123 | 0 | 115 | | | | | 238 |
| C | 455 | 162 | 0 | | | | | 617 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 578 | 215 | 645 | | | | | 1438 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 167 | | | | | 197 |
| B | 48 | 0 | 54 | | | | | 102 |
| C | 168 | 46 | 0 | | | | | 215 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 217 | 76 | 221 | | | | | 514 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 66 | | | | | 75 |
| B | 18 | 0 | 13 | | | | | 32 |
| C | 43 | 17 | 0 | | | | | 60 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 61 | 27 | 79 | | | | | 167 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 297 | | | | | 311 |
| B | 57 | 0 | 47 | | | | | 104 |
| C | 243 | 99 | 0 | | | | | 342 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 300 | 112 | 345 | | | | | 757 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 688 | | | | | 715 |
| B | 144 | 0 | 101 | | | | | 245 |
| C | 495 | 91 | 0 | | | | | 586 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 639 | 117 | 790 | | | | | 1546 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 524 | | | | | 539 |
| B | 114 | 0 | 78 | | | | | 192 |
| C | 305 | 31 | 0 | | | | | 336 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 419 | 46 | 602 | | | | | 1067 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 23 | | | | | 24 |
| B | 9 | 0 | 3 | | | | | 12 |
| C | 24 | 6 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 7 | 26 | | | | | 66 |

MODELLED — HGV

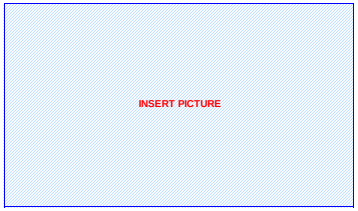
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 141 | | | | | 151 |
| B | 21 | 0 | 20 | | | | | 42 |
| C | 166 | 55 | 0 | | | | | 221 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 188 | 64 | 161 | | | | | 413 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Pilsworth Road / JPA1.1 & SHDA employment**




***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | *Pilsworth Rd SB* |
| B | 60027 | 60229 | 60229 | 60027 | *SHDA* |
| C | 60024 | 60229 | 60229 | 60024 | *Pilsworth Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 944 | | | | | 946 |
| B | 0 | 0 | 2 | | | | | 2 |
| C | 636 | 0 | 0 | | | | | 636 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 636 | 3 | 945 | | | | | 1584 |

*By Vehicle Type:*

MODELLED

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 456 | | | | | 458 |
| B | 0 | 0 | 2 | | | | | 2 |
| C | 338 | 0 | 0 | | | | | 338 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 338 | 3 | 458 | | | | | 798 |

MODELLED

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 110 | | | | | 110 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 35 | 0 | 0 | | | | | 35 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 35 | 0 | 110 | | | | | 145 |

MODELLED

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 378 | | | | | 378 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 263 | 0 | 0 | | | | | 263 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 263 | 0 | 378 | | | | | 641 |

MODELLED

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 578 | | | | | 578 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 583 | 0 | 0 | | | | | 583 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 583 | 0 | 578 | | | | | 1161 |

*By Vehicle Type:*

MODELLED

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 216 | | | | | 217 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 197 | 0 | 0 | | | | | 197 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 197 | 0 | 217 | | | | | 414 |

MODELLED

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 61 | | | | | 61 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 75 | 0 | 0 | | | | | 75 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 0 | 61 | | | | | 136 |

MODELLED

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 300 | | | | | 300 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 311 | 0 | 0 | | | | | 311 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 311 | 0 | 300 | | | | | 611 |

MODELLED

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 639 | | | | | 639 |
| B | 0 | 0 | 2 | | | | | 2 |
| C | 715 | 2 | 0 | | | | | 716 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 715 | 3 | 641 | | | | | 1358 |

*By Vehicle Type:*

MODELLED

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 418 | | | | | 419 |
| B | 0 | 0 | 2 | | | | | 2 |
| C | 539 | 2 | 0 | | | | | 541 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 539 | 3 | 420 | | | | | 962 |

MODELLED

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 33 | | | | | 33 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 0 | 33 | | | | | 57 |

MODELLED

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 188 | | | | | 188 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 151 | 0 | 0 | | | | | 151 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 151 | 0 | 188 | | | | | 339 |

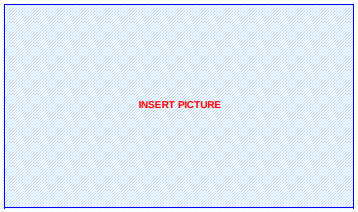
MODELLED

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** 3 Arrows (Pilsworth Road / Moss Hall Road - South)




***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 60241 | 2037 | 2037 | 60241 | *Link Road* |
| D | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 449 | 483 | 13 | | | | 945 |
| B | 213 | 0 | 441 | 0 | | | | 653 |
| C | 421 | 975 | 0 | 18 | | | | 1414 |
| D | 3 | 1 | 13 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 636 | 1425 | 937 | 32 | | | | 3030 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 167 | 282 | 8 | | | | 458 |
| B | 6 | 0 | 62 | 0 | | | | 68 |
| C | 332 | 468 | 0 | 6 | | | | 806 |
| D | 1 | 1 | 1 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 338 | 636 | 345 | 14 | | | | 1334 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 82 | 1 | | | | 110 |
| B | 11 | 0 | 105 | 0 | | | | 116 |
| C | 24 | 138 | 0 | 4 | | | | 166 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 35 | 165 | 187 | 5 | | | | 392 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 254 | 119 | 4 | | | | 378 |
| B | 196 | 0 | 273 | 0 | | | | 470 |
| C | 65 | 369 | 0 | 8 | | | | 442 |
| D | 2 | 0 | 12 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 263 | 624 | 405 | 12 | | | | 1304 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 247 | 329 | 2 | | | | 578 |
| B | 298 | 0 | 757 | 1 | | | | 1055 |
| C | 275 | 639 | 0 | 22 | | | | 936 |
| D | 10 | 1 | 17 | 0 | | | | 28 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 583 | 886 | 1103 | 25 | | | | 2597 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 183 | 2 | | | | 217 |
| B | 47 | 0 | 274 | 0 | | | | 322 |
| C | 148 | 159 | 0 | 2 | | | | 308 |
| D | 2 | 0 | 5 | 0 | | | | 7 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 197 | 191 | 463 | 4 | | | | 854 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 36 | 1 | | | | 61 |
| B | 32 | 0 | 145 | 0 | | | | 178 |
| C | 41 | 140 | 0 | 2 | | | | 183 |
| D | 2 | 0 | 1 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 165 | 182 | 3 | | | | 426 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 190 | 110 | 0 | | | | 300 |
| B | 218 | 0 | 337 | 0 | | | | 555 |
| C | 87 | 340 | 0 | 18 | | | | 444 |
| D | 6 | 0 | 11 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 311 | 530 | 458 | 18 | | | | 1317 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 140 | 489 | 12 | | | | 641 |
| B | 259 | 0 | 980 | 2 | | | | 1242 |
| C | 449 | 298 | 0 | 16 | | | | 763 |
| D | 8 | 1 | 11 | 0 | | | | 20 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 716 | 439 | 1480 | 30 | | | | 2665 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 395 | 7 | | | | 420 |
| B | 132 | 0 | 705 | 2 | | | | 839 |
| C | 402 | 109 | 0 | 10 | | | | 521 |
| D | 7 | 1 | 8 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 541 | 128 | 1108 | 18 | | | | 1795 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 28 | 0 | | | | 33 |
| B | 8 | 0 | 69 | 0 | | | | 77 |
| C | 16 | 27 | 0 | 1 | | | | 43 |
| D | 1 | 0 | 2 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 31 | 99 | 1 | | | | 155 |

MODELLED — HGV

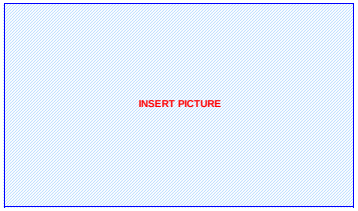
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 118 | 65 | 5 | | | | 188 |
| B | 119 | 0 | 206 | 0 | | | | 326 |
| C | 31 | 163 | 0 | 5 | | | | 199 |
| D | 0 | 0 | 2 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 151 | 280 | 273 | 10 | | | | 714 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Fowler Welch (Pilsworth Road / Moss Hall Road - North)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60241 | 60246 | 60246 | 60241 | *Moss Hall Rd NB* |
| B | 60000 | 60213 | 60213 | 60000 | *Pilsworth Road* |
| C | 60228 | 2038 | 2038 | 60228 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 821 | 116 | | | | | 937 |
| B | 1116 | 0 | 29 | | | | | 1145 |
| C | 298 | 73 | 0 | | | | | 371 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1414 | 894 | 145 | | | | | 2453 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 319 | 27 | | | | | 346 |
| B | 703 | 0 | 27 | | | | | 730 |
| C | 102 | 52 | 0 | | | | | 154 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 805 | 371 | 54 | | | | | 1230 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 149 | 37 | | | | | 186 |
| B | 72 | 0 | 2 | | | | | 74 |
| C | 94 | 14 | 0 | | | | | 108 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 166 | 163 | 39 | | | | | 368 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 353 | 52 | | | | | 405 |
| B | 341 | 0 | 0 | | | | | 341 |
| C | 102 | 7 | 0 | | | | | 109 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 443 | 360 | 52 | | | | | 855 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 772 | 332 | | | | | 1104 |
| B | 846 | 0 | 13 | | | | | 859 |
| C | 89 | 105 | 0 | | | | | 194 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 935 | 877 | 345 | | | | | 2157 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 313 | 150 | | | | | 463 |
| B | 298 | 0 | 7 | | | | | 305 |
| C | 10 | 88 | 0 | | | | | 98 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 308 | 401 | 157 | | | | | 866 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 116 | 67 | | | | | 183 |
| B | 179 | 0 | 0 | | | | | 179 |
| C | 4 | 13 | 0 | | | | | 17 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 183 | 129 | 67 | | | | | 379 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 343 | 115 | | | | | 458 |
| B | 369 | 0 | 6 | | | | | 375 |
| C | 75 | 4 | 0 | | | | | 79 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 444 | 347 | 121 | | | | | 912 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1051 | 429 | | | | | 1480 |
| B | 717 | 0 | 175 | | | | | 892 |
| C | 46 | 119 | 0 | | | | | 165 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 763 | 1170 | 604 | | | | | 2537 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 773 | 335 | | | | | 1108 |
| B | 514 | 0 | 155 | | | | | 669 |
| C | 7 | 108 | 0 | | | | | 115 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 521 | 881 | 490 | | | | | 1892 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 65 | 34 | | | | | 99 |
| B | 31 | 0 | 18 | | | | | 49 |
| C | 12 | 10 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 43 | 75 | 52 | | | | | 170 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 213 | 60 | | | | | 273 |
| B | 172 | 0 | 2 | | | | | 174 |
| C | 27 | 1 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 199 | 214 | 62 | | | | | 475 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | TC 11 - Pilsworth Rd E |
| B | 3001 | 60238 | 60239 | 3000 | JTC 11 - M66 SB Off |
| C | 60213 | 60000 | 60000 | 60213 | TC 11 - Pilsworth Rd W |
| D | 60236 | 4918 | 60240 | 2998 | JTC 11 - M66 NB Off |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 327 | 427 | 203 | | | | 957 |
| B | 420 | 0 | 341 | 0 | | | | 761 |
| C | 291 | 192 | 0 | 413 | | | | 896 |
| D | 659 | 0 | 379 | 0 | | | | 1038 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1370 | 519 | 1147 | 616 | | | | 3652 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 250 | 300 | 140 | | | | 690 |
| B | 344 | 0 | 310 | 0 | | | | 654 |
| C | 200 | 47 | 0 | 124 | | | | 371 |
| D | 552 | 0 | 121 | 0 | | | | 673 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1096 | 297 | 731 | 264 | | | | 2388 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 40 | 51 | | | | 142 |
| B | 47 | 0 | 12 | 0 | | | | 59 |
| C | 53 | 55 | 0 | 56 | | | | 164 |
| D | 59 | 0 | 22 | 0 | | | | 81 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 159 | 106 | 74 | 107 | | | | 446 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 87 | 12 | | | | 125 |
| B | 29 | 0 | 19 | 0 | | | | 48 |
| C | 38 | 90 | 0 | 233 | | | | 361 |
| D | 48 | 0 | 236 | 0 | | | | 284 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 115 | 116 | 342 | 245 | | | | 818 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 380 | 289 | 193 | | | | 862 |
| B | 301 | 0 | 236 | 0 | | | | 537 |
| C | 278 | 109 | 0 | 488 | | | | 875 |
| D | 331 | 0 | 335 | 0 | | | | 666 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 910 | 489 | 860 | 681 | | | | 2940 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 303 | 139 | 165 | | | | 607 |
| B | 231 | 0 | 129 | 0 | | | | 360 |
| C | 188 | 62 | 0 | 150 | | | | 400 |
| D | 238 | 0 | 37 | 0 | | | | 275 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 657 | 365 | 305 | 315 | | | | 1642 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 54 | 24 | | | | 123 |
| B | 38 | 0 | 77 | 0 | | | | 115 |
| C | 44 | 21 | 0 | 63 | | | | 128 |
| D | 45 | 0 | 49 | 0 | | | | 94 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 127 | 66 | 180 | 87 | | | | 460 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 96 | 4 | | | | 132 |
| B | 32 | 0 | 30 | 0 | | | | 62 |
| C | 46 | 26 | 0 | 275 | | | | 347 |
| D | 48 | 0 | 249 | 0 | | | | 297 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 126 | 58 | 375 | 279 | | | | 838 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 397 | 482 | 191 | | | | 1070 |
| B | 288 | 0 | 142 | 0 | | | | 430 |
| C | 342 | 186 | 0 | 640 | | | | 1168 |
| D | 469 | 0 | 269 | 0 | | | | 738 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1099 | 583 | 893 | 831 | | | | 3406 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 365 | 429 | 170 | | | | 964 |
| B | 257 | 0 | 116 | 0 | | | | 373 |
| C | 286 | 163 | 0 | 431 | | | | 880 |
| D | 367 | 0 | 124 | 0 | | | | 491 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 910 | 528 | 669 | 601 | | | | 2708 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 21 | 18 | | | | 59 |
| B | 24 | 0 | 7 | 0 | | | | 31 |
| C | 23 | 19 | 0 | 33 | | | | 75 |
| D | 46 | 0 | 22 | 0 | | | | 68 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 93 | 39 | 50 | 51 | | | | 233 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 32 | 3 | | | | 47 |
| B | 7 | 0 | 19 | 0 | | | | 26 |
| C | 33 | 4 | 0 | 176 | | | | 213 |
| D | 56 | 0 | 123 | 0 | | | | 179 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 16 | 174 | 179 | | | | 465 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N12 - M66 NB Of |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 122 | 96 | 407 | 1380 | 41 | | 2046 |
| B | 237 | 0 | 23 | 228 | 0 | 29 | | 517 |
| C | 55 | 3 | 0 | 11 | 21 | 0 | | 90 |
| D | 565 | 248 | 24 | 0 | 238 | 48 | | 1123 |
| E | 1402 | 0 | 61 | 193 | 0 | 85 | | 1741 |
| F | 27 | 4 | 1 | 23 | 27 | 0 | | 82 |
| G | | | | | | | | |
| TOTAL | 2286 | 377 | 205 | 862 | 1666 | 203 | | 5599 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 95 | 39 | 213 | 1112 | 40 | | 1499 |
| B | 221 | 0 | 21 | 166 | 0 | 27 | | 435 |
| C | 9 | 1 | 0 | 3 | 8 | 0 | | 21 |
| D | 469 | 170 | 19 | 0 | 146 | 35 | | 839 |
| E | 997 | 0 | 45 | 113 | 0 | 82 | | 1237 |
| F | 23 | 3 | 1 | 17 | 24 | 0 | | 68 |
| G | | | | | | | | |
| TOTAL | 1719 | 269 | 125 | 512 | 1290 | 184 | | 4099 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 27 | 100 | 161 | 1 | | 311 |
| B | 13 | 0 | 2 | 38 | 0 | 0 | | 53 |
| C | 32 | 2 | 0 | 5 | 8 | 0 | | 47 |
| D | 36 | 37 | 3 | 0 | 44 | 5 | | 125 |
| E | 180 | 0 | 7 | 43 | 0 | 2 | | 232 |
| F | 1 | 0 | 0 | 1 | 1 | 0 | | 3 |
| G | | | | | | | | |
| TOTAL | 262 | 61 | 39 | 187 | 214 | 8 | | 771 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 30 | 94 | 107 | 0 | | 236 |
| B | 3 | 0 | 0 | 24 | 0 | 2 | | 29 |
| C | 14 | 0 | 0 | 3 | 5 | 0 | | 22 |
| D | 60 | 41 | 2 | 0 | 48 | 8 | | 159 |
| E | 225 | 0 | 9 | 37 | 0 | 1 | | 272 |
| F | 3 | 1 | 0 | 5 | 2 | 0 | | 11 |
| G | | | | | | | | |
| TOTAL | 305 | 47 | 41 | 163 | 162 | 11 | | 729 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 166 | 99 | 285 | 1215 | 24 | | 1789 |
| B | 206 | 0 | 20 | 166 | 0 | 8 | | 400 |
| C | 73 | 12 | 0 | 13 | 32 | 1 | | 131 |
| D | 512 | 151 | 30 | 0 | 121 | 45 | | 859 |
| E | 1147 | 0 | 43 | 212 | 0 | 36 | | 1438 |
| F | 32 | 11 | 1 | 31 | 46 | 0 | | 121 |
| G | | | | | | | | |
| TOTAL | 1970 | 340 | 193 | 707 | 1414 | 114 | | 4738 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 121 | 48 | 184 | 865 | 21 | | 1239 |
| B | 170 | 0 | 15 | 103 | 0 | 6 | | 294 |
| C | 26 | 7 | 0 | 9 | 20 | 1 | | 63 |
| D | 328 | 94 | 18 | 0 | 50 | 25 | | 515 |
| E | 818 | 0 | 33 | 128 | 0 | 28 | | 1007 |
| F | 29 | 9 | 1 | 22 | 37 | 0 | | 98 |
| G | | | | | | | | |
| TOTAL | 1371 | 231 | 115 | 446 | 972 | 81 | | 3216 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 32 | 19 | 208 | 2 | | 286 |
| B | 19 | 0 | 3 | 20 | 0 | 1 | | 43 |
| C | 37 | 3 | 0 | 2 | 8 | 0 | | 50 |
| D | 78 | 34 | 6 | 0 | 25 | 7 | | 150 |
| E | 177 | 0 | 7 | 49 | 0 | 3 | | 236 |
| F | 2 | 1 | 0 | 4 | 4 | 0 | | 11 |
| G | | | | | | | | |
| TOTAL | 313 | 63 | 48 | 94 | 245 | 13 | | 776 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 19 | 82 | 142 | 1 | | 264 |
| B | 17 | 0 | 2 | 43 | 0 | 1 | | 63 |
| C | 10 | 2 | 0 | 2 | 4 | 0 | | 18 |
| D | 106 | 23 | 6 | 0 | 46 | 13 | | 194 |
| E | 152 | 0 | 3 | 35 | 0 | 5 | | 195 |
| F | 1 | 1 | 0 | 5 | 5 | 0 | | 12 |
| G | | | | | | | | |
| TOTAL | 286 | 46 | 30 | 167 | 197 | 20 | | 746 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 246 | 29 | 354 | 1232 | 34 | | 1895 |
| B | 241 | 0 | 5 | 150 | 0 | 12 | | 408 |
| C | 46 | 12 | 0 | 17 | 44 | 1 | | 120 |
| D | 594 | 178 | 11 | 0 | 180 | 55 | | 1018 |
| E | 1398 | 0 | 17 | 209 | 0 | 41 | | 1665 |
| F | 33 | 15 | 0 | 40 | 89 | 0 | | 177 |
| G | | | | | | | | |
| TOTAL | 2312 | 451 | 62 | 770 | 1545 | 143 | | 5283 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 233 | 15 | 305 | 1137 | 33 | | 1723 |
| B | 227 | 0 | 4 | 134 | 0 | 11 | | 376 |
| C | 21 | 11 | 0 | 15 | 41 | 1 | | 89 |
| D | 494 | 158 | 9 | 0 | 139 | 50 | | 850 |
| E | 1256 | 0 | 14 | 170 | 0 | 36 | | 1476 |
| F | 31 | 14 | 0 | 38 | 86 | 0 | | 169 |
| G | | | | | | | | |
| TOTAL | 2029 | 416 | 42 | 662 | 1403 | 131 | | 4683 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 12 | 22 | 73 | 1 | | 120 |
| B | 14 | 0 | 1 | 14 | 0 | 1 | | 30 |
| C | 21 | 1 | 0 | 2 | 3 | 0 | | 27 |
| D | 40 | 17 | 2 | 0 | 21 | 5 | | 85 |
| E | 107 | 0 | 3 | 25 | 0 | 3 | | 138 |
| F | 2 | 1 | 0 | 2 | 1 | 0 | | 6 |
| G | | | | | | | | |
| TOTAL | 184 | 31 | 18 | 65 | 98 | 10 | | 406 |

MODELLED — HGV — To Arm / From Arm

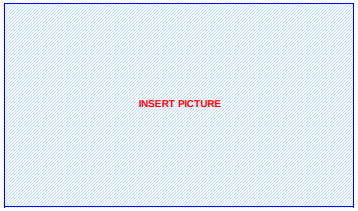
| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 27 | 22 | 0 | | 52 |
| B | 0 | 0 | 0 | 2 | 0 | 0 | | 2 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 60 | 3 | 0 | 0 | 20 | 0 | | 83 |
| E | 35 | 0 | 0 | 14 | 0 | 2 | | 51 |
| F | 0 | 0 | 0 | 0 | 2 | 0 | | 2 |
| G | | | | | | | | |
| TOTAL | 99 | 4 | 2 | 43 | 44 | 2 | | 194 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | Heywood Old Road NE |
| B | 60074 | 2478 | 2478 | 60074 | Whittle Lane |
| C | 4730 | 2478 | 2478 | 4730 | Heywood Old Road SE |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 178 | 423 | | | | | 601 |
| B | 5 | 0 | 34 | | | | | 39 |
| C | 302 | 242 | 0 | | | | | 545 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 307 | 420 | 457 | | | | | 1184 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 142 | 370 | | | | | 512 |
| B | 2 | 0 | 11 | | | | | 13 |
| C | 245 | 195 | 0 | | | | | 440 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 248 | 337 | 380 | | | | | 965 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 40 | | | | | 76 |
| B | 2 | 0 | 23 | | | | | 26 |
| C | 47 | 47 | 0 | | | | | 94 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 83 | 63 | | | | | 196 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 11 | | | | | 11 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 10 | 0 | 0 | | | | | 10 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 0 | 11 | | | | | 22 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 46 | 382 | | | | | 428 |
| B | 46 | 0 | 124 | | | | | 170 |
| C | 280 | 85 | 0 | | | | | 365 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 326 | 130 | 506 | | | | | 963 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 294 | | | | | 311 |
| B | 28 | 0 | 70 | | | | | 98 |
| C | 242 | 42 | 0 | | | | | 284 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 270 | 59 | 364 | | | | | 693 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 47 | | | | | 75 |
| B | 18 | 0 | 54 | | | | | 72 |
| C | 31 | 43 | 0 | | | | | 73 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 71 | 100 | | | | | 220 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 40 | | | | | 40 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 7 | 0 | 0 | | | | | 7 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 7 | 0 | 40 | | | | | 47 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.99 | | | | | 1.99 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 671 | | | | | 689 |
| B | 93 | 0 | 241 | | | | | 334 |
| C | 363 | 35 | 0 | | | | | 398 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 456 | 54 | 912 | | | | | 1421 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 582 | | | | | 597 |
| B | 86 | 0 | 220 | | | | | 306 |
| C | 327 | 28 | 0 | | | | | 355 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 413 | 43 | 802 | | | | | 1258 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 69 | | | | | 73 |
| B | 7 | 0 | 21 | | | | | 28 |
| C | 30 | 7 | 0 | | | | | 37 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 37 | 11 | 90 | | | | | 138 |

MODELLED — HGV

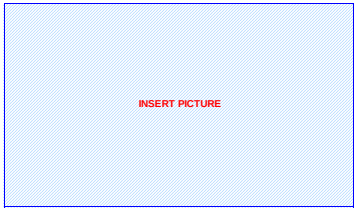
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 17 | | | | | 17 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 6 | 0 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 6 | 0 | 17 | | | | | 23 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.96 | | | | | 1.96 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Heywood Old Road / Langley Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | Heywood Old Road SE |
| B | 15238 | 4730 | 4730 | 15238 | Langley Lane |
| C | 2478 | 4730 | 4730 | 2478 | Heywood Old Road NE |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 83 | 315 | | | | | 398 |
| B | 121 | 0 | 229 | | | | | 350 |
| C | 286 | 171 | 0 | | | | | 457 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 407 | 254 | 545 | | | | | 1206 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 72 | 270 | | | | | 341 |
| B | 114 | 0 | 170 | | | | | 284 |
| C | 246 | 135 | 0 | | | | | 380 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 359 | 206 | 440 | | | | | 1006 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 42 | | | | | 46 |
| B | 4 | 0 | 52 | | | | | 56 |
| C | 29 | 34 | 0 | | | | | 63 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 38 | 94 | | | | | 166 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 4 | | | | | 9 |
| B | 3 | 0 | 7 | | | | | 10 |
| C | 11 | 0 | 0 | | | | | 11 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 15 | 5 | 10 | | | | | 30 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 216 | | | | | 261 |
| B | 42 | 0 | 149 | | | | | 191 |
| C | 340 | 166 | 0 | | | | | 506 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 382 | 212 | 365 | | | | | 958 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 173 | | | | | 211 |
| B | 33 | 0 | 111 | | | | | 144 |
| C | 251 | 113 | 0 | | | | | 364 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 284 | 151 | 284 | | | | | 719 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 36 | | | | | 40 |
| B | 4 | 0 | 37 | | | | | 41 |
| C | 53 | 47 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 50 | 73 | | | | | 181 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 7 | | | | | 9 |
| B | 3 | 0 | 1 | | | | | 4 |
| C | 35 | 5 | 0 | | | | | 40 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 39 | 7 | 7 | | | | | 53 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.98 | 0 | | | | | 5.98 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 67 | 257 | | | | | 324 |
| B | 55 | 0 | 141 | | | | | 196 |
| C | 624 | 288 | 0 | | | | | 912 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 679 | 355 | 398 | | | | | 1432 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 234 | | | | | 292 |
| B | 50 | 0 | 121 | | | | | 171 |
| C | 555 | 248 | 0 | | | | | 802 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 604 | 306 | 355 | | | | | 1265 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 18 | | | | | 24 |
| B | 3 | 0 | 19 | | | | | 22 |
| C | 53 | 37 | 0 | | | | | 90 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 43 | 37 | | | | | 136 |

MODELLED — HGV

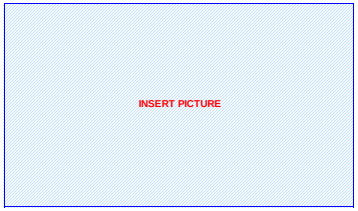
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 6 | | | | | 7 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 16 | 1 | 0 | | | | | 17 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 17 | 2 | 6 | | | | | 25 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.96 | 0 | | | | | 5.96 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Langley Lane / A6046 Hollin Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 169 | 669 | | | | | 838 |
| B | 149 | 0 | 73 | | | | | 222 |
| C | 632 | 6 | 0 | | | | | 638 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 781 | 175 | 742 | | | | | 1698 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 110 | 498 | | | | | 608 |
| B | 110 | 0 | 71 | | | | | 182 |
| C | 395 | 6 | 0 | | | | | 401 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 505 | 116 | 569 | | | | | 1190 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 99 | | | | | 151 |
| B | 34 | 0 | 1 | | | | | 35 |
| C | 116 | 0 | 0 | | | | | 116 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 150 | 52 | 100 | | | | | 302 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 53 | | | | | 60 |
| B | 0 | 0 | 1 | | | | | 1 |
| C | 91 | 0 | 0 | | | | | 91 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 92 | 7 | 54 | | | | | 152 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 20 | | | | | 20 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 0 | 20 | | | | | 53 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 80 | 702 | | | | | 782 |
| B | 105 | 0 | 18 | | | | | 123 |
| C | 535 | 11 | 0 | | | | | 547 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 640 | 92 | 719 | | | | | 1451 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 466 | | | | | 507 |
| B | 52 | 0 | 17 | | | | | 69 |
| C | 379 | 11 | 0 | | | | | 390 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 431 | 52 | 484 | | | | | 967 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 96 | | | | | 132 |
| B | 45 | 0 | 0 | | | | | 45 |
| C | 67 | 0 | 0 | | | | | 67 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 112 | 37 | 96 | | | | | 244 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 120 | | | | | 121 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 66 | 0 | 0 | | | | | 66 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 70 | 1 | 120 | | | | | 191 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.86 | 2 | 19.98 | | | | | 49.84 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 79 | 809 | | | | | 888 |
| B | 114 | 0 | 11 | | | | | 125 |
| C | 672 | 40 | 0 | | | | | 711 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 785 | 119 | 820 | | | | | 1724 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 680 | | | | | 738 |
| B | 79 | 0 | 11 | | | | | 91 |
| C | 538 | 39 | 0 | | | | | 578 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 618 | 97 | 691 | | | | | 1406 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 69 | | | | | 88 |
| B | 29 | 0 | 0 | | | | | 29 |
| C | 75 | 0 | 0 | | | | | 76 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 105 | 19 | 69 | | | | | 193 |

MODELLED — HGV

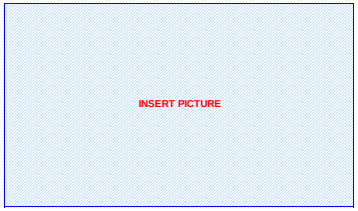
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 32 | | | | | 32 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 34 | 0 | 0 | | | | | 34 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 35 | 0 | 32 | | | | | 67 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 28 | | | | | 30 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.75 | 1.99 | 27.84 | | | | | 57.58 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Coronation Avenue




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 85 | 355 | | | | | 440 |
| B | 371 | 0 | 44 | | | | | 414 |
| C | 301 | 222 | 0 | | | | | 523 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 671 | 308 | 398 | | | | | 1378 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 282 | | | | | 282 |
| B | 256 | 0 | 35 | | | | | 291 |
| C | 266 | 181 | 0 | | | | | 448 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 523 | 181 | 317 | | | | | 1021 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 53 | | | | | 53 |
| B | 37 | 0 | 7 | | | | | 44 |
| C | 21 | 32 | 0 | | | | | 53 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 58 | 32 | 60 | | | | | 150 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 56 | 15 | | | | | 71 |
| B | 58 | 0 | 3 | | | | | 60 |
| C | 13 | 9 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 71 | 65 | 17 | | | | | 153 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 4 | | | | | 34 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 20 | 30 | 4 | | | | | 53 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 83 | 233 | | | | | 315 |
| B | 191 | 0 | 75 | | | | | 266 |
| C | 347 | 144 | 0 | | | | | 491 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 538 | 227 | 308 | | | | | 1072 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 178 | | | | | 178 |
| B | 98 | 0 | 33 | | | | | 131 |
| C | 241 | 112 | 0 | | | | | 352 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 338 | 112 | 211 | | | | | 661 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 38 | | | | | 38 |
| B | 1 | 0 | 35 | | | | | 35 |
| C | 71 | 24 | 0 | | | | | 95 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 24 | 73 | | | | | 168 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 11 | | | | | 70 |
| B | 72 | 0 | 7 | | | | | 80 |
| C | 33 | 8 | 0 | | | | | 41 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 106 | 67 | 18 | | | | | 191 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.93 | 23.89 | 5.97 | | | | | 51.79 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 246 | | | | | 286 |
| B | 357 | 0 | 21 | | | | | 378 |
| C | 412 | 150 | 0 | | | | | 563 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 770 | 190 | 267 | | | | | 1227 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 210 | | | | | 210 |
| B | 285 | 0 | 10 | | | | | 295 |
| C | 356 | 134 | 0 | | | | | 490 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 641 | 134 | 219 | | | | | 994 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 17 | | | | | 17 |
| B | 26 | 0 | 10 | | | | | 36 |
| C | 33 | 15 | 0 | | | | | 48 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 59 | 15 | 27 | | | | | 101 |

HGV

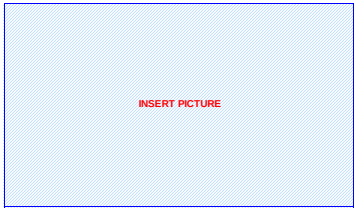
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 16 | | | | | 32 |
| B | 19 | 0 | 1 | | | | | 20 |
| C | 21 | 2 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 18 | 17 | | | | | 75 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 4 | | | | | 28 |
| B | 28 | 0 | 0 | | | | | 28 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.65 | 23.84 | 3.97 | | | | | 57.46 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / Hollins Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 356 | 459 | | | | | 815 |
| B | 225 | 0 | 69 | | | | | 294 |
| C | 697 | 64 | 0 | | | | | 762 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 923 | 420 | 528 | | | | | 1871 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 304 | 373 | | | | | 677 |
| B | 166 | 0 | 56 | | | | | 222 |
| C | 561 | 48 | 0 | | | | | 609 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 727 | 352 | 429 | | | | | 1508 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 54 | | | | | 97 |
| B | 35 | 0 | 7 | | | | | 42 |
| C | 69 | 9 | 0 | | | | | 78 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 52 | 61 | | | | | 217 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 32 | | | | | 37 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 67 | 2 | 0 | | | | | 69 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 87 | 6 | 33 | | | | | 126 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 170 | 508 | | | | | 677 |
| B | 142 | 0 | 39 | | | | | 181 |
| C | 503 | 59 | 0 | | | | | 562 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 644 | 228 | 547 | | | | | 1420 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 135 | 372 | | | | | 508 |
| B | 107 | 0 | 26 | | | | | 133 |
| C | 352 | 40 | 0 | | | | | 392 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 459 | 175 | 398 | | | | | 1033 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 72 | | | | | 97 |
| B | 23 | 0 | 7 | | | | | 30 |
| C | 78 | 12 | 0 | | | | | 91 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 101 | 38 | 78 | | | | | 218 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 64 | | | | | 70 |
| B | 7 | 0 | 0 | | | | | 8 |
| C | 72 | 1 | 0 | | | | | 73 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 80 | 7 | 64 | | | | | 151 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 4 | 7.98 | 6 | | | | | 17.98 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 307 | 554 | | | | | 861 |
| B | 134 | 0 | 36 | | | | | 170 |
| C | 589 | 58 | 0 | | | | | 647 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 723 | 364 | 590 | | | | | 1677 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 275 | 486 | | | | | 762 |
| B | 114 | 0 | 26 | | | | | 140 |
| C | 517 | 41 | 0 | | | | | 558 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 631 | 317 | 512 | | | | | 1460 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 42 | | | | | 67 |
| B | 11 | 0 | 4 | | | | | 15 |
| C | 40 | 10 | 0 | | | | | 49 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 35 | 46 | | | | | 131 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 26 | | | | | 28 |
| B | 7 | 0 | 0 | | | | | 7 |
| C | 33 | 0 | 0 | | | | | 33 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 2 | 26 | | | | | 69 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 9.9 | 5.96 | | | | | 17.85 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / A56 Manchester Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 615 | 582 | | | | | 1197 |
| B | 412 | 0 | 116 | | | | | 528 |
| C | 789 | 147 | 0 | | | | | 936 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1201 | 762 | 699 | | | | | 2661 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 503 | 472 | | | | | 976 |
| B | 339 | 0 | 90 | | | | | 429 |
| C | 701 | 105 | 0 | | | | | 806 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1040 | 609 | 562 | | | | | 2211 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 57 | | | | | 109 |
| B | 46 | 0 | 15 | | | | | 61 |
| C | 47 | 26 | 0 | | | | | 73 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 93 | 78 | 71 | | | | | 243 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 34 | | | | | 87 |
| B | 21 | 0 | 12 | | | | | 33 |
| C | 21 | 15 | 0 | | | | | 36 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 42 | 69 | 45 | | | | | 156 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 6 | 20 | | | | | 52 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 382 | 595 | | | | | 977 |
| B | 365 | 0 | 181 | | | | | 547 |
| C | 646 | 180 | 0 | | | | | 826 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1011 | 562 | 776 | | | | | 2349 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 272 | 472 | | | | | 744 |
| B | 270 | 0 | 129 | | | | | 398 |
| C | 510 | 120 | 0 | | | | | 630 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 780 | 392 | 600 | | | | | 1772 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 68 | | | | | 126 |
| B | 50 | 0 | 28 | | | | | 78 |
| C | 80 | 33 | 0 | | | | | 113 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 130 | 91 | 97 | | | | | 317 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 46 | 35 | | | | | 81 |
| B | 39 | 0 | 25 | | | | | 64 |
| C | 34 | 27 | 0 | | | | | 61 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 73 | 59 | | | | | 206 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.93 | 5.99 | 19.96 | | | | | 53.88 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 498 | 601 | | | | | 1099 |
| B | 477 | 0 | 113 | | | | | 590 |
| C | 781 | 149 | 0 | | | | | 930 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1258 | 647 | 714 | | | | | 2619 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 443 | 522 | | | | | 965 |
| B | 414 | 0 | 98 | | | | | 512 |
| C | 690 | 116 | 0 | | | | | 805 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1104 | 558 | 620 | | | | | 2282 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 50 | | | | | 77 |
| B | 35 | 0 | 10 | | | | | 46 |
| C | 61 | 23 | 0 | | | | | 84 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 49 | 61 | | | | | 207 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 8 | | | | | 31 |
| B | 22 | 0 | 5 | | | | | 26 |
| C | 11 | 11 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 33 | 13 | | | | | 79 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 25.66 | 5.98 | 19.95 | | | | | 51.59 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 26859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1200 | 3095 | 803 | | | | 5098 |
| B | 569 | 34 | 1097 | 3977 | | | | 5677 |
| C | 2608 | 632 | 0 | 1870 | | | | 5110 |
| D | 1305 | 4639 | 2248 | 0 | | | | 8192 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4482 | 6505 | 6440 | 6650 | | | | 24077 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 859 | 2048 | 430 | | | | 3337 |
| B | 530 | 0 | 830 | 2038 | | | | 3398 |
| C | 1737 | 441 | 0 | 1147 | | | | 3325 |
| D | 684 | 2240 | 1369 | 0 | | | | 4293 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2951 | 3540 | 4247 | 3615 | | | | 14353 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 172 | 606 | 130 | | | | 908 |
| B | 39 | 2 | 105 | 654 | | | | 800 |
| C | 380 | 94 | 0 | 491 | | | | 965 |
| D | 326 | 835 | 482 | 0 | | | | 1643 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 745 | 1103 | 1193 | 1275 | | | | 4316 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 169 | 441 | 243 | | | | 853 |
| B | 0 | 32 | 162 | 1285 | | | | 1479 |
| C | 491 | 97 | 0 | 232 | | | | 820 |
| D | 295 | 1564 | 397 | 0 | | | | 2256 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 786 | 1862 | 1000 | 1760 | | | | 5408 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 949 | 1698 | 977 | | | | 3624 |
| B | 503 | 64 | 508 | 4580 | | | | 5655 |
| C | 2101 | 219 | 0 | 1222 | | | | 3542 |
| D | 1311 | 4867 | 2008 | 0 | | | | 8186 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3915 | 6099 | 4214 | 6779 | | | | 21007 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 678 | 1022 | 384 | | | | 2084 |
| B | 488 | 1 | 372 | 2266 | | | | 3127 |
| C | 1377 | 138 | 0 | 597 | | | | 2112 |
| D | 485 | 2390 | 1088 | 0 | | | | 3963 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2350 | 3207 | 2482 | 3247 | | | | 11286 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 124 | 347 | 210 | | | | 681 |
| B | 15 | 1 | 72 | 883 | | | | 971 |
| C | 356 | 34 | 0 | 315 | | | | 705 |
| D | 295 | 884 | 401 | 0 | | | | 1580 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 666 | 1043 | 820 | 1408 | | | | 3937 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 147 | 329 | 383 | | | | 859 |
| B | 0 | 62 | 64 | 1431 | | | | 1557 |
| C | 368 | 47 | 0 | 310 | | | | 725 |
| D | 531 | 1593 | 519 | 0 | | | | 2643 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 899 | 1849 | 912 | 2124 | | | | 5784 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 972 | 2216 | 1059 | | | | 4247 |
| B | 261 | 67 | 700 | 4564 | | | | 5592 |
| C | 3325 | 455 | 0 | 1195 | | | | 4975 |
| D | 1481 | 4459 | 2233 | 0 | | | | 8173 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5067 | 5953 | 5149 | 6818 | | | | 22987 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 879 | 1821 | 657 | | | | 3357 |
| B | 250 | 2 | 654 | 3018 | | | | 3924 |
| C | 2738 | 379 | 0 | 838 | | | | 3955 |
| D | 1027 | 3036 | 1601 | 0 | | | | 5664 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4015 | 4296 | 4076 | 4513 | | | | 16900 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 77 | 292 | 162 | | | | 531 |
| B | 11 | 2 | 33 | 623 | | | | 669 |
| C | 371 | 65 | 0 | 275 | | | | 711 |
| D | 233 | 588 | 367 | 0 | | | | 1188 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 615 | 732 | 692 | 1060 | | | | 3099 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 103 | 240 | | | | 359 |
| B | 0 | 63 | 13 | 923 | | | | 999 |
| C | 216 | 11 | 0 | 82 | | | | 309 |
| D | 221 | 835 | 265 | 0 | | | | 1321 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 437 | 925 | 381 | 1245 | | | | 2988 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | JTC 20 - A627 SB |
| B | 2727 | 2724 | 2723 | 2725 | JTC 20 - M62 WB |
| C | 2768 | 4932 | 4929 | 2767 | JTC 20 - A627 NB |
| D | 2719 | 2721 | 2722 | 2720 | JTC 20 - M62 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 165 | 830 | 683 | | | | 1678 |
| B | 189 | 0 | 823 | 4458 | | | | 5470 |
| C | 817 | 549 | 0 | 618 | | | | 1984 |
| D | 944 | 4609 | 1051 | 0 | | | | 6604 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1950 | 5323 | 2704 | 5759 | | | | 15736 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 122 | 672 | 406 | | | | 1200 |
| B | 164 | 0 | 630 | 2345 | | | | 3139 |
| C | 661 | 321 | 0 | 414 | | | | 1396 |
| D | 577 | 2279 | 700 | 0 | | | | 3556 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1402 | 2722 | 2002 | 3165 | | | | 9291 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 72 | 93 | | | | 184 |
| B | 22 | 0 | 95 | 672 | | | | 789 |
| C | 101 | 64 | 0 | 103 | | | | 268 |
| D | 129 | 786 | 195 | 0 | | | | 1110 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 252 | 869 | 362 | 868 | | | | 2351 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 86 | 184 | | | | 294 |
| B | 3 | 0 | 98 | 1441 | | | | 1542 |
| C | 55 | 164 | 0 | 101 | | | | 320 |
| D | 238 | 1544 | 156 | 0 | | | | 1938 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 296 | 1732 | 340 | 1726 | | | | 4094 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 109 | 660 | 636 | | | | 1405 |
| B | 239 | 0 | 730 | 4151 | | | | 5120 |
| C | 393 | 604 | 0 | 797 | | | | 1794 |
| D | 732 | 4863 | 691 | 0 | | | | 6286 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1364 | 5576 | 2081 | 5584 | | | | 14605 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 487 | 364 | | | | 914 |
| B | 92 | 0 | 326 | 2110 | | | | 2528 |
| C | 231 | 296 | 0 | 553 | | | | 1080 |
| D | 530 | 2255 | 497 | 0 | | | | 3282 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 853 | 2614 | 1310 | 3027 | | | | 7804 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 108 | 117 | | | | 235 |
| B | 16 | 0 | 132 | 661 | | | | 809 |
| C | 93 | 87 | 0 | 163 | | | | 343 |
| D | 123 | 793 | 145 | 0 | | | | 1061 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 232 | 890 | 385 | 941 | | | | 2448 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 65 | 155 | | | | 256 |
| B | 131 | 0 | 272 | 1380 | | | | 1783 |
| C | 69 | 221 | 0 | 81 | | | | 371 |
| D | 79 | 1815 | 49 | 0 | | | | 1943 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 279 | 2072 | 386 | 1616 | | | | 4353 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 145 | 851 | 898 | | | | 1894 |
| B | 137 | 0 | 777 | 3915 | | | | 4829 |
| C | 871 | 970 | 0 | 860 | | | | 2701 |
| D | 658 | 4682 | 884 | 0 | | | | 6224 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1666 | 5797 | 2512 | 5673 | | | | 15648 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 108 | 664 | 602 | | | | 1374 |
| B | 98 | 0 | 625 | 2524 | | | | 3247 |
| C | 781 | 776 | 0 | 685 | | | | 2242 |
| D | 562 | 3215 | 776 | 0 | | | | 4553 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1441 | 4099 | 2065 | 3811 | | | | 11416 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 102 | 114 | | | | 238 |
| B | 7 | 0 | 68 | 485 | | | | 560 |
| C | 79 | 98 | 0 | 105 | | | | 282 |
| D | 72 | 595 | 77 | 0 | | | | 744 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 158 | 715 | 247 | 704 | | | | 1824 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 85 | 182 | | | | 282 |
| B | 32 | 0 | 84 | 906 | | | | 1022 |
| C | 11 | 96 | 0 | 70 | | | | 177 |
| D | 24 | 872 | 31 | 0 | | | | 927 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 67 | 983 | 200 | 1158 | | | | 2408 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | JTC 21 - M60 SB |
| B | 14141 | 5666 | 5093 | 14141 | JTC 21 - A576 WB |
| C | 5668 | 5665 | 5667 | 5669 | JTC 21 - M60 NB |
| D | 3414 | 5096 | 5095 | 3414 | JTC 21 - A576 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 551 | 0 | 943 | | | | 1494 |
| B | 493 | 0 | 258 | 346 | | | | 1097 |
| C | 0 | 235 | 48 | 538 | | | | 821 |
| D | 647 | 142 | 507 | 0 | | | | 1296 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1140 | 928 | 813 | 1827 | | | | 4708 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 426 | 0 | 781 | | | | 1207 |
| B | 366 | 0 | 199 | 310 | | | | 875 |
| C | 0 | 163 | 41 | 455 | | | | 659 |
| D | 510 | 129 | 435 | 0 | | | | 1074 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 876 | 718 | 675 | 1546 | | | | 3815 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 83 | 0 | 74 | | | | 157 |
| B | 58 | 0 | 49 | 35 | | | | 142 |
| C | 0 | 42 | 7 | 62 | | | | 111 |
| D | 52 | 12 | 55 | 0 | | | | 119 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 110 | 137 | 111 | 171 | | | | 529 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 0 | 88 | | | | 130 |
| B | 69 | 0 | 10 | 1 | | | | 80 |
| C | 0 | 30 | 0 | 21 | | | | 51 |
| D | 85 | 1 | 17 | 0 | | | | 103 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 154 | 73 | 27 | 110 | | | | 364 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 360 | 0 | 590 | | | | 950 |
| B | 232 | 0 | 255 | 309 | | | | 796 |
| C | 0 | 314 | 4 | 468 | | | | 786 |
| D | 348 | 372 | 536 | 0 | | | | 1256 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 580 | 1046 | 795 | 1367 | | | | 3788 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 259 | 0 | 454 | | | | 713 |
| B | 163 | 0 | 171 | 276 | | | | 610 |
| C | 0 | 194 | 4 | 371 | | | | 569 |
| D | 256 | 329 | 421 | 0 | | | | 1006 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 419 | 782 | 596 | 1101 | | | | 2898 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 67 | 0 | 81 | | | | 148 |
| B | 41 | 0 | 47 | 29 | | | | 117 |
| C | 0 | 69 | 0 | 64 | | | | 133 |
| D | 48 | 36 | 78 | 0 | | | | 162 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 89 | 172 | 125 | 174 | | | | 560 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 0 | 55 | | | | 89 |
| B | 28 | 0 | 37 | 4 | | | | 69 |
| C | 0 | 51 | 0 | 33 | | | | 84 |
| D | 44 | 7 | 37 | 0 | | | | 88 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 92 | 74 | 92 | | | | 330 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 394 | 0 | 821 | | | | 1215 |
| B | 249 | 0 | 200 | 400 | | | | 849 |
| C | 9 | 492 | 13 | 560 | | | | 1074 |
| D | 897 | 666 | 747 | 0 | | | | 2310 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1155 | 1552 | 960 | 1781 | | | | 5448 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 325 | 0 | 761 | | | | 1086 |
| B | 216 | 0 | 175 | 365 | | | | 756 |
| C | 7 | 419 | 12 | 507 | | | | 945 |
| D | 792 | 616 | 684 | 0 | | | | 2092 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1015 | 1360 | 871 | 1633 | | | | 4879 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 0 | 41 | | | | 86 |
| B | 22 | 0 | 20 | 33 | | | | 75 |
| C | 1 | 58 | 1 | 53 | | | | 113 |
| D | 86 | 49 | 57 | 0 | | | | 192 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 109 | 152 | 78 | 127 | | | | 466 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 0 | 19 | | | | 43 |
| B | 11 | 0 | 5 | 2 | | | | 18 |
| C | 1 | 15 | 0 | 0 | | | | 16 |
| D | 19 | 1 | 6 | 0 | | | | 26 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 40 | 11 | 21 | | | | 103 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A576 Middleton Road / A6045 Heywood Old Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 3 | 536 | | | | 581 |
| B | 58 | 0 | 3 | 564 | | | | 625 |
| C | 3 | 4 | 0 | 15 | | | | 21 |
| D | 328 | 605 | 9 | 0 | | | | 943 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 389 | 650 | 15 | 1115 | | | | 2170 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 3 | 451 | | | | 490 |
| B | 40 | 0 | 1 | 413 | | | | 454 |
| C | 2 | 2 | 0 | 11 | | | | 15 |
| D | 260 | 451 | 7 | 0 | | | | 718 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 303 | 489 | 11 | 875 | | | | 1677 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 0 | 67 | | | | 72 |
| B | 10 | 0 | 0 | 73 | | | | 83 |
| C | 0 | 1 | 0 | 3 | | | | 4 |
| D | 53 | 82 | 1 | 0 | | | | 137 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 63 | 88 | 2 | 142 | | | | 296 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 18 | | | | 18 |
| B | 8 | 0 | 1 | 61 | | | | 71 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 15 | 56 | 2 | 0 | | | | 72 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 23 | 57 | 3 | 80 | | | | 163 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 34 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 86 | 5 | 313 | | | | 404 |
| B | 88 | 0 | 5 | 494 | | | | 587 |
| C | 4 | 4 | 0 | 7 | | | | 16 |
| D | 457 | 600 | 9 | 0 | | | | 1066 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 549 | 691 | 18 | 815 | | | | 2072 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 69 | 3 | 258 | | | | 330 |
| B | 71 | 0 | 3 | 346 | | | | 420 |
| C | 3 | 3 | 0 | 6 | | | | 11 |
| D | 351 | 425 | 7 | 0 | | | | 783 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 424 | 496 | 13 | 610 | | | | 1543 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 1 | 46 | | | | 60 |
| B | 12 | 0 | 1 | 71 | | | | 83 |
| C | 1 | 1 | 0 | 1 | | | | 3 |
| D | 73 | 99 | 1 | 0 | | | | 173 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 86 | 112 | 3 | 118 | | | | 319 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 1 | 9 | | | | 14 |
| B | 5 | 0 | 1 | 60 | | | | 66 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 33 | 59 | 1 | 0 | | | | 93 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 39 | 64 | 2 | 69 | | | | 174 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.91 | 0 | 17.98 | | | | 35.89 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 91 | 3 | 371 | | | | 464 |
| B | 150 | 0 | 4 | 490 | | | | 644 |
| C | 5 | 4 | 0 | 5 | | | | 15 |
| D | 824 | 734 | 10 | 0 | | | | 1568 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 979 | 830 | 16 | 865 | | | | 2690 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 81 | 3 | 336 | | | | 420 |
| B | 133 | 0 | 3 | 417 | | | | 553 |
| C | 5 | 3 | 0 | 3 | | | | 12 |
| D | 736 | 615 | 8 | 0 | | | | 1359 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 874 | 700 | 14 | 756 | | | | 2343 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | 29 | | | | 37 |
| B | 17 | 0 | 0 | 46 | | | | 63 |
| C | 0 | 0 | 0 | 1 | | | | 2 |
| D | 74 | 76 | 1 | 0 | | | | 152 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 92 | 84 | 1 | 76 | | | | 253 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | 6 | | | | 8 |
| B | 1 | 0 | 0 | 11 | | | | 12 |
| C | 0 | 1 | 0 | 1 | | | | 1 |
| D | 13 | 26 | 1 | 0 | | | | 39 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 14 | 28 | 1 | 18 | | | | 61 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.51 | 0 | 15.83 | | | | 33.34 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3a_S3_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 982 | | | | | 1030 |
| B | 0 | 0 | 1094 | | | | | 1094 |
| C | 1659 | 659 | 0 | | | | | 2318 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1659 | 707 | 2076 | | | | | 4442 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 714 | | | | | 752 |
| B | 0 | 0 | 786 | | | | | 786 |
| C | 1224 | 495 | 0 | | | | | 1720 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1224 | 533 | 1500 | | | | | 3257 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 109 | | | | | 114 |
| B | 0 | 0 | 202 | | | | | 202 |
| C | 162 | 99 | 0 | | | | | 262 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 162 | 105 | 311 | | | | | 578 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 129 | | | | | 135 |
| B | 0 | 0 | 106 | | | | | 106 |
| C | 241 | 64 | 0 | | | | | 305 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 241 | 69 | 235 | | | | | 546 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 29 | | | | | 29 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 31 | 0 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 0 | 29 | | | | | 61 |

### Model_2_Heywood_DS3a_S3_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 863 | | | | | 863 |
| B | 0 | 0 | 957 | | | | | 957 |
| C | 1421 | 579 | 0 | | | | | 2000 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1421 | 580 | 1820 | | | | | 3821 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 608 | | | | | 608 |
| B | 0 | 0 | 632 | | | | | 632 |
| C | 994 | 377 | 0 | | | | | 1371 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 994 | 377 | 1240 | | | | | 2611 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 101 | | | | | 101 |
| B | 0 | 0 | 184 | | | | | 184 |
| C | 190 | 123 | 0 | | | | | 313 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 190 | 123 | 285 | | | | | 598 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 124 | | | | | 124 |
| B | 0 | 0 | 141 | | | | | 141 |
| C | 205 | 80 | 0 | | | | | 285 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 205 | 80 | 265 | | | | | 551 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.79 | 0 | 29.85 | | | | | 61.64 |

### Model_3_Heywood_DS3a_S3_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 949 | | | | | 954 |
| B | 0 | 0 | 972 | | | | | 972 |
| C | 1639 | 704 | 0 | | | | | 2343 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1639 | 709 | 1922 | | | | | 4270 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 854 | | | | | 856 |
| B | 0 | 0 | 868 | | | | | 868 |
| C | 1441 | 590 | 0 | | | | | 2031 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1441 | 593 | 1721 | | | | | 3755 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 47 | | | | | 48 |
| B | 0 | 0 | 74 | | | | | 74 |
| C | 111 | 73 | 0 | | | | | 184 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 111 | 74 | 121 | | | | | 306 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 21 | | | | | 22 |
| B | 0 | 0 | 31 | | | | | 31 |
| C | 58 | 41 | 0 | | | | | 99 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 58 | 42 | 52 | | | | | 152 |

MODELLED — Fixed

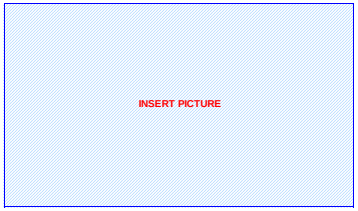
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.19 | 0 | 27.34 | | | | | 56.53 |

## Run 22.1 - 2039 Do Something 1 - S.4.1 – Proposed Scheme Quantum with M62 Access - Origin-Destination Matrices

- Policy Off (Non Vision-Led)
- including the Proposed Scheme traffic generation
- including the M62 Access solution
- including Common Highway Mitigation Package and J18 DCO works
- Whittle Lane capacity constrained and South Heywood Link Closed

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60124 | 4924 | 4924 | 60124 | M62 J19 and Birch |
| E | 60057 | 60011 | 4924 | 2718 | C1-M62 WJC1-M62 West |
| F | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizabe |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 249 | 265 | 490 | 0 | 5 | | 1009 |
| B | 213 | 0 | 183 | 0 | 0 | 440 | | 836 |
| C | 233 | 185 | 0 | 314 | 0 | 160 | | 892 |
| D | 159 | 0 | 44 | 0 | 0 | 147 | | 350 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 15 | 343 | 152 | 131 | 0 | 0 | | 641 |
| G | | | | | | | | |
| TOTAL | 620 | 777 | 644 | 935 | 0 | 752 | | 3728 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 165 | 191 | 345 | 0 | 4 | | 705 |
| B | 125 | 0 | 74 | 0 | 0 | 226 | | 425 |
| C | 182 | 148 | 0 | 237 | 0 | 115 | | 682 |
| D | 91 | 0 | 18 | 0 | 0 | 72 | | 181 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 3 | 198 | 97 | 121 | 0 | 0 | | 419 |
| G | | | | | | | | |
| TOTAL | 401 | 511 | 380 | 703 | 0 | 417 | | 2412 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 65 | 48 | 0 | 1 | | 176 |
| B | 40 | 0 | 71 | 0 | 0 | 85 | | 196 |
| C | 46 | 13 | 0 | 51 | 0 | 41 | | 151 |
| D | 34 | 0 | 9 | 0 | 0 | 16 | | 59 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 12 | 25 | 12 | 7 | 0 | 0 | | 56 |
| G | | | | | | | | |
| TOTAL | 132 | 100 | 157 | 106 | 0 | 143 | | 638 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 9 | 97 | 0 | 0 | | 128 |
| B | 48 | 0 | 38 | 0 | 0 | 129 | | 215 |
| C | 5 | 24 | 0 | 26 | 0 | 4 | | 59 |
| D | 34 | 0 | 17 | 0 | 0 | 59 | | 110 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 0 | 120 | 43 | 3 | 0 | 0 | | 166 |
| G | | | | | | | | |
| TOTAL | 87 | 166 | 107 | 126 | 0 | 192 | | 678 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 241 | 278 | 274 | 0 | 2 | | 795 |
| B | 134 | 0 | 127 | 0 | 0 | 244 | | 505 |
| C | 179 | 221 | 0 | 311 | 0 | 96 | | 807 |
| D | 177 | 0 | 68 | 0 | 0 | 121 | | 366 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 35 | 230 | 103 | 29 | 0 | 0 | | 397 |
| G | | | | | | | | |
| TOTAL | 525 | 692 | 576 | 614 | 0 | 463 | | 2870 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 155 | 230 | 143 | 0 | 1 | | 529 |
| B | 82 | 0 | 91 | 0 | 0 | 109 | | 282 |
| C | 140 | 121 | 0 | 172 | 0 | 65 | | 498 |
| D | 56 | 0 | 22 | 0 | 0 | 20 | | 98 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 16 | 98 | 65 | 20 | 0 | 0 | | 199 |
| G | | | | | | | | |
| TOTAL | 294 | 374 | 408 | 335 | 0 | 195 | | 1606 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 35 | 64 | 0 | 1 | | 154 |
| B | 16 | 0 | 26 | 0 | 0 | 47 | | 89 |
| C | 23 | 36 | 0 | 72 | 0 | 22 | | 153 |
| D | 47 | 0 | 18 | 0 | 0 | 20 | | 85 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 12 | 27 | 14 | 4 | 0 | 0 | | 57 |
| G | | | | | | | | |
| TOTAL | 98 | 117 | 93 | 140 | 0 | 90 | | 538 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 13 | 67 | 0 | 0 | | 112 |
| B | 36 | 0 | 10 | 0 | 0 | 88 | | 134 |
| C | 16 | 64 | 0 | 67 | 0 | 9 | | 156 |
| D | 74 | 0 | 28 | 0 | 0 | 81 | | 183 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 7 | 105 | 24 | 5 | 0 | 0 | | 141 |
| G | | | | | | | | |
| TOTAL | 133 | 201 | 75 | 139 | 0 | 178 | | 726 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 224 | 303 | 300 | 0 | 3 | | 830 |
| B | 192 | 0 | 265 | 0 | 0 | 353 | | 810 |
| C | 237 | 138 | 0 | 291 | 0 | 102 | | 768 |
| D | 193 | 0 | 65 | 0 | 0 | 134 | | 392 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 41 | 255 | 179 | 35 | 0 | 0 | | 510 |
| G | | | | | | | | |
| TOTAL | 663 | 617 | 812 | 626 | 0 | 592 | | 3310 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 172 | 268 | 259 | 0 | 1 | | 700 |
| B | 133 | 0 | 211 | 0 | 0 | 245 | | 589 |
| C | 215 | 126 | 0 | 216 | 0 | 96 | | 653 |
| D | 138 | 0 | 43 | 0 | 0 | 92 | | 273 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 37 | 181 | 152 | 30 | 0 | 0 | | 400 |
| G | | | | | | | | |
| TOTAL | 523 | 479 | 674 | 505 | 0 | 434 | | 2615 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 30 | 20 | 0 | 2 | | 89 |
| B | 35 | 0 | 37 | 0 | 0 | 29 | | 101 |
| C | 20 | 12 | 0 | 40 | 0 | 5 | | 77 |
| D | 27 | 0 | 15 | 0 | 0 | 10 | | 52 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 4 | 21 | 12 | 2 | 0 | 0 | | 39 |
| G | | | | | | | | |
| TOTAL | 86 | 70 | 94 | 62 | 0 | 46 | | 358 |

MODELLED — HGV — To Arm / From Arm

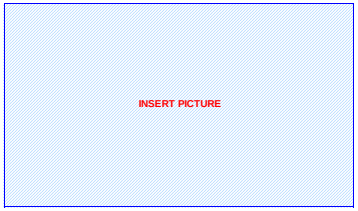
| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 5 | 21 | 0 | 0 | | 41 |
| B | 24 | 0 | 17 | 0 | 0 | 79 | | 120 |
| C | 2 | 0 | 0 | 35 | 0 | 1 | | 38 |
| D | 28 | 0 | 7 | 0 | 0 | 32 | | 67 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 0 | 53 | 15 | 3 | 0 | 0 | | 71 |
| G | | | | | | | | |
| TOTAL | 54 | 68 | 44 | 59 | 0 | 112 | | 337 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | 045 Manchester Road |
| B | 60003 | 60010 | 60010 | 60003 | 4 Queen Elizabeth Wa |
| C | 2814 | 60010 | 60010 | 2814 | 045 Manchester Road |
| D | 60008 | 60010 | 60010 | 60008 | 4 Queen Elizabeth Wa |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 157 | 267 | 83 | | | | 508 |
| B | 141 | 0 | 101 | 512 | | | | 754 |
| C | 359 | 100 | 0 | 120 | | | | 579 |
| D | 110 | 383 | 50 | 0 | | | | 543 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 610 | 640 | 418 | 716 | | | | 2384 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 136 | 186 | 65 | | | | 387 |
| B | 110 | 0 | 64 | 245 | | | | 420 |
| C | 301 | 74 | 0 | 80 | | | | 455 |
| D | 82 | 209 | 41 | 0 | | | | 332 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 494 | 419 | 292 | 389 | | | | 1594 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 58 | 17 | | | | 89 |
| B | 16 | 0 | 30 | 97 | | | | 143 |
| C | 37 | 19 | 0 | 12 | | | | 68 |
| D | 18 | 23 | 7 | 0 | | | | 47 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 70 | 55 | 94 | 127 | | | | 347 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 21 | 1 | | | | 30 |
| B | 14 | 0 | 7 | 170 | | | | 192 |
| C | 20 | 7 | 0 | 28 | | | | 56 |
| D | 10 | 152 | 2 | 0 | | | | 164 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 45 | 167 | 30 | 200 | | | | 441 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 227 | 73 | | | | 340 |
| B | 126 | 0 | 36 | 300 | | | | 462 |
| C | 400 | 102 | 0 | 91 | | | | 593 |
| D | 85 | 256 | 75 | 0 | | | | 417 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 611 | 398 | 338 | 465 | | | | 1812 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 167 | 54 | | | | 244 |
| B | 75 | 0 | 26 | 95 | | | | 195 |
| C | 305 | 52 | 0 | 55 | | | | 412 |
| D | 54 | 125 | 55 | 0 | | | | 234 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 434 | 200 | 247 | 204 | | | | 1085 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 28 | 18 | | | | 53 |
| B | 44 | 0 | 8 | 37 | | | | 89 |
| C | 52 | 18 | 0 | 17 | | | | 86 |
| D | 26 | 33 | 9 | 0 | | | | 68 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 58 | 45 | 71 | | | | 296 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 30 | 1 | | | | 41 |
| B | 7 | 0 | 2 | 169 | | | | 178 |
| C | 41 | 33 | 0 | 20 | | | | 93 |
| D | 6 | 98 | 11 | 0 | | | | 115 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 141 | 43 | 190 | | | | 427 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 312 | 67 | | | | 415 |
| B | 135 | 0 | 79 | 376 | | | | 590 |
| C | 516 | 168 | 0 | 78 | | | | 762 |
| D | 129 | 306 | 95 | 0 | | | | 529 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 780 | 511 | 486 | 521 | | | | 2297 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 271 | 45 | | | | 341 |
| B | 115 | 0 | 68 | 251 | | | | 434 |
| C | 444 | 149 | 0 | 60 | | | | 653 |
| D | 110 | 226 | 81 | 0 | | | | 417 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 668 | 400 | 421 | 356 | | | | 1845 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 32 | 21 | | | | 56 |
| B | 14 | 0 | 8 | 24 | | | | 46 |
| C | 52 | 18 | 0 | 10 | | | | 80 |
| D | 11 | 18 | 10 | 0 | | | | 39 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 77 | 39 | 50 | 55 | | | | 221 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 6 | 2 | | | | 17 |
| B | 6 | 0 | 3 | 101 | | | | 111 |
| C | 18 | 2 | 0 | 7 | | | | 27 |
| D | 8 | 61 | 3 | 0 | | | | 73 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 71 | 13 | 110 | | | | 227 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.94 | 0 | 1.96 | 0 | | | | 3.9 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Hill Top Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | rehills Rd EB |
| B | 60036 | 60031 | 60031 | 60036 | ill Top Road |
| C | 60230 | 7454 | 7454 | 60230 | rehills Rd SB |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 122 | 396 | 53 | | | | 571 |
| B | 93 | 0 | 14 | 2 | | | | 109 |
| C | 547 | 66 | 0 | 152 | | | | 765 |
| D | 63 | 0 | 38 | 0 | | | | 101 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 703 | 188 | 448 | 207 | | | | 1546 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 236 | 43 | | | | 339 |
| B | 11 | 0 | 2 | 0 | | | | 13 |
| C | 339 | 40 | 0 | 58 | | | | 437 |
| D | 15 | 0 | 3 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 365 | 100 | 241 | 101 | | | | 807 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 39 | 6 | | | | 54 |
| B | 8 | 0 | 1 | 1 | | | | 10 |
| C | 104 | 5 | 0 | 19 | | | | 128 |
| D | 14 | 0 | 2 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 126 | 14 | 42 | 26 | | | | 208 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 121 | 4 | | | | 178 |
| B | 74 | 0 | 11 | 1 | | | | 86 |
| C | 104 | 21 | 0 | 75 | | | | 200 |
| D | 34 | 0 | 33 | 0 | | | | 67 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 212 | 74 | 165 | 80 | | | | 531 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 332 | 28 | | | | 436 |
| B | 110 | 0 | 26 | 1 | | | | 137 |
| C | 295 | 48 | 0 | 112 | | | | 455 |
| D | 98 | 2 | 53 | 0 | | | | 153 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 503 | 126 | 411 | 141 | | | | 1181 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 203 | 21 | | | | 247 |
| B | 31 | 0 | 13 | 0 | | | | 44 |
| C | 167 | 8 | 0 | 19 | | | | 194 |
| D | 36 | 1 | 13 | 0 | | | | 50 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 234 | 32 | 229 | 40 | | | | 535 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 53 | 5 | | | | 69 |
| B | 17 | 0 | 7 | 1 | | | | 25 |
| C | 40 | 8 | 0 | 22 | | | | 70 |
| D | 21 | 1 | 8 | 0 | | | | 30 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 78 | 20 | 68 | 28 | | | | 194 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 76 | 2 | | | | 120 |
| B | 62 | 0 | 6 | 0 | | | | 68 |
| C | 88 | 32 | 0 | 71 | | | | 191 |
| D | 41 | 0 | 32 | 0 | | | | 73 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 191 | 74 | 114 | 73 | | | | 452 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 468 | 12 | | | | 531 |
| B | 98 | 0 | 50 | 0 | | | | 148 |
| C | 368 | 24 | 0 | 52 | | | | 444 |
| D | 147 | 0 | 52 | 0 | | | | 199 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 613 | 75 | 570 | 64 | | | | 1322 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 392 | 11 | | | | 423 |
| B | 69 | 0 | 31 | 0 | | | | 100 |
| C | 263 | 11 | 0 | 10 | | | | 284 |
| D | 112 | 0 | 31 | 0 | | | | 143 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 444 | 31 | 454 | 21 | | | | 950 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 35 | 1 | | | | 38 |
| B | 4 | 0 | 8 | 0 | | | | 12 |
| C | 45 | 1 | 0 | 4 | | | | 50 |
| D | 12 | 0 | 1 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 61 | 3 | 44 | 5 | | | | 113 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 41 | 0 | | | | 70 |
| B | 25 | 0 | 11 | 0 | | | | 36 |
| C | 60 | 12 | 0 | 38 | | | | 110 |
| D | 23 | 0 | 20 | 0 | | | | 43 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 108 | 41 | 72 | 38 | | | | 259 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Pilsworth Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 233 | 325 | | | | | 558 |
| B | 480 | 0 | 248 | | | | | 729 |
| C | 427 | 274 | 0 | | | | | 701 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 907 | 507 | 573 | | | | | 1987 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 170 | 157 | | | | | 327 |
| B | 366 | 0 | 184 | | | | | 549 |
| C | 183 | 181 | 0 | | | | | 364 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 549 | 351 | 340 | | | | | 1240 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 17 | | | | | 43 |
| B | 50 | 0 | 38 | | | | | 88 |
| C | 59 | 67 | 0 | | | | | 126 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 108 | 94 | 55 | | | | | 257 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 151 | | | | | 188 |
| B | 65 | 0 | 26 | | | | | 91 |
| C | 185 | 26 | 0 | | | | | 211 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 250 | 63 | 178 | | | | | 490 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 322 | 289 | | | | | 611 |
| B | 245 | 0 | 148 | | | | | 392 |
| C | 321 | 182 | 0 | | | | | 503 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 565 | 504 | 436 | | | | | 1506 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 202 | 151 | | | | | 352 |
| B | 161 | 0 | 97 | | | | | 258 |
| C | 121 | 113 | 0 | | | | | 234 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 282 | 314 | 248 | | | | | 843 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 42 | | | | | 89 |
| B | 35 | 0 | 27 | | | | | 62 |
| C | 43 | 36 | 0 | | | | | 79 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 78 | 83 | 69 | | | | | 230 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 96 | | | | | 169 |
| B | 49 | 0 | 24 | | | | | 72 |
| C | 157 | 34 | 0 | | | | | 191 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 205 | 107 | 120 | | | | | 432 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 389 | 374 | | | | | 763 |
| B | 246 | 0 | 157 | | | | | 403 |
| C | 357 | 255 | 0 | | | | | 612 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 603 | 645 | 531 | | | | | 1779 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 337 | 295 | | | | | 633 |
| B | 200 | 0 | 127 | | | | | 327 |
| C | 225 | 219 | 0 | | | | | 444 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 425 | 556 | 423 | | | | | 1403 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 19 | | | | | 47 |
| B | 12 | 0 | 19 | | | | | 31 |
| C | 33 | 28 | 0 | | | | | 61 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 45 | 56 | 38 | | | | | 139 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 59 | | | | | 83 |
| B | 35 | 0 | 10 | | | | | 45 |
| C | 99 | 9 | 0 | | | | | 108 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 134 | 33 | 70 | | | | | 236 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / A58 Bury St

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 542 | 150 | | | | | 693 |
| B | 585 | 0 | 460 | | | | | 1045 |
| C | 207 | 309 | 0 | | | | | 516 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 792 | 851 | 610 | | | | | 2253 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 365 | 123 | | | | | 488 |
| B | 375 | 0 | 335 | | | | | 710 |
| C | 133 | 260 | 0 | | | | | 393 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 508 | 625 | 458 | | | | | 1591 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 107 | 18 | | | | | 125 |
| B | 117 | 0 | 46 | | | | | 163 |
| C | 62 | 22 | 0 | | | | | 84 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 179 | 129 | 65 | | | | | 372 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 9 | | | | | 69 |
| B | 83 | 0 | 59 | | | | | 142 |
| C | 12 | 9 | 0 | | | | | 21 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 70 | 68 | | | | | 233 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 29 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 28 | 20 | | | | | 57 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 514 | 106 | | | | | 619 |
| B | 497 | 0 | 284 | | | | | 781 |
| C | 144 | 323 | 0 | | | | | 467 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 641 | 837 | 390 | | | | | 1867 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 361 | 81 | | | | | 442 |
| B | 341 | 0 | 187 | | | | | 528 |
| C | 112 | 200 | 0 | | | | | 312 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 453 | 562 | 268 | | | | | 1282 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 79 | 18 | | | | | 97 |
| B | 89 | 0 | 36 | | | | | 124 |
| C | 21 | 35 | 0 | | | | | 56 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 110 | 114 | 53 | | | | | 277 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 7 | | | | | 71 |
| B | 57 | 0 | 42 | | | | | 99 |
| C | 11 | 70 | 0 | | | | | 81 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 133 | 49 | | | | | 251 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.91 | 27.87 | 19.82 | | | | | 57.6 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 539 | 109 | | | | | 648 |
| B | 557 | 0 | 331 | | | | | 888 |
| C | 198 | 309 | 0 | | | | | 507 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 755 | 848 | 439 | | | | | 2042 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 479 | 95 | | | | | 574 |
| B | 481 | 0 | 268 | | | | | 749 |
| C | 177 | 262 | 0 | | | | | 439 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 658 | 741 | 363 | | | | | 1761 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 12 | | | | | 55 |
| B | 54 | 0 | 27 | | | | | 81 |
| C | 17 | 25 | 0 | | | | | 42 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 71 | 69 | 39 | | | | | 179 |

MODELLED — HGV

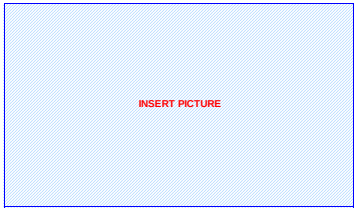
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 2 | | | | | 11 |
| B | 14 | 0 | 16 | | | | | 30 |
| C | 3 | 4 | 0 | | | | | 8 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 18 | 13 | 18 | | | | | 49 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 20 | | | | | 27 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.83 | 25.76 | 19.57 | | | | | 53.16 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / Heywood Distribution Centre




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | Pilsworth Rd NB |
| B | 20430 | 7459 | 7459 | 20430 | ywood Distribution Cer |
| C | 2813 | 7459 | 7459 | 2813 | Pilsworth Rd SB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 309 | 392 | | | | | 700 |
| B | 164 | 0 | 166 | | | | | 329 |
| C | 683 | 224 | 0 | | | | | 907 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 847 | 532 | 558 | | | | | 1937 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 177 | 286 | | | | | 463 |
| B | 32 | 0 | 40 | | | | | 73 |
| C | 426 | 122 | 0 | | | | | 549 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 459 | 299 | 327 | | | | | 1084 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 24 | | | | | 48 |
| B | 28 | 0 | 19 | | | | | 47 |
| C | 87 | 22 | 0 | | | | | 108 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 115 | 45 | 43 | | | | | 203 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 108 | 82 | | | | | 190 |
| B | 103 | 0 | 106 | | | | | 210 |
| C | 170 | 80 | 0 | | | | | 250 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 273 | 188 | 188 | | | | | 650 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 243 | 408 | | | | | 651 |
| B | 212 | 0 | 202 | | | | | 414 |
| C | 413 | 152 | 0 | | | | | 565 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 625 | 394 | 611 | | | | | 1630 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 68 | 261 | | | | | 328 |
| B | 81 | 0 | 92 | | | | | 173 |
| C | 212 | 70 | 0 | | | | | 282 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 293 | 137 | 352 | | | | | 783 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 61 | | | | | 99 |
| B | 34 | 0 | 29 | | | | | 62 |
| C | 60 | 19 | 0 | | | | | 78 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 93 | 57 | 89 | | | | | 240 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 136 | 87 | | | | | 223 |
| B | 97 | 0 | 82 | | | | | 179 |
| C | 142 | 63 | 0 | | | | | 205 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 239 | 200 | 169 | | | | | 607 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 123 | 613 | | | | | 736 |
| B | 208 | 0 | 150 | | | | | 358 |
| C | 513 | 90 | 0 | | | | | 603 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 721 | 213 | 763 | | | | | 1697 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 519 | | | | | 563 |
| B | 161 | 0 | 114 | | | | | 274 |
| C | 383 | 42 | 0 | | | | | 425 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 544 | 85 | 633 | | | | | 1262 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 42 | | | | | 52 |
| B | 15 | 0 | 6 | | | | | 21 |
| C | 37 | 8 | 0 | | | | | 45 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 52 | 18 | 47 | | | | | 117 |

MODELLED — HGV

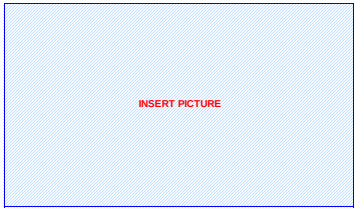
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 70 | 53 | | | | | 122 |
| B | 32 | 0 | 31 | | | | | 63 |
| C | 93 | 41 | 0 | | | | | 134 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 125 | 110 | 83 | | | | | 318 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Pilsworth Road / JPA1.1 & SHDA employment**




***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | *Pilsworth Rd SB* |
| B | 60027 | 60229 | 60229 | 60027 | *SHDA* |
| C | 60024 | 60229 | 60229 | 60024 | *Pilsworth Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 827 | | | | | 847 |
| B | 12 | 0 | 17 | | | | | 29 |
| C | 688 | 30 | 0 | | | | | 719 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 700 | 51 | 843 | | | | | 1594 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 450 | | | | | 459 |
| B | 3 | 0 | 4 | | | | | 7 |
| C | 460 | 13 | 0 | | | | | 474 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 463 | 22 | 454 | | | | | 939 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 112 | | | | | 115 |
| B | 1 | 0 | 2 | | | | | 4 |
| C | 46 | 3 | 0 | | | | | 49 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 48 | 6 | 115 | | | | | 168 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 264 | | | | | 273 |
| B | 8 | 0 | 10 | | | | | 18 |
| C | 182 | 14 | 0 | | | | | 196 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 190 | 23 | 274 | | | | | 487 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 613 | | | | | 625 |
| B | 18 | 0 | 24 | | | | | 42 |
| C | 633 | 26 | 0 | | | | | 659 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 651 | 39 | 637 | | | | | 1327 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 288 | | | | | 293 |
| B | 5 | 0 | 8 | | | | | 13 |
| C | 323 | 7 | 0 | | | | | 330 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 328 | 12 | 296 | | | | | 636 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 91 | | | | | 93 |
| B | 3 | 0 | 4 | | | | | 8 |
| C | 96 | 5 | 0 | | | | | 101 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 99 | 7 | 96 | | | | | 202 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 233 | | | | | 239 |
| B | 9 | 0 | 12 | | | | | 22 |
| C | 214 | 15 | 0 | | | | | 228 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 223 | 20 | 245 | | | | | 488 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 714 | | | | | 721 |
| B | 16 | 0 | 26 | | | | | 42 |
| C | 720 | 12 | 0 | | | | | 733 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 736 | 19 | 740 | | | | | 1496 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 542 | | | | | 544 |
| B | 9 | 0 | 17 | | | | | 26 |
| C | 553 | 4 | 0 | | | | | 558 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 563 | 6 | 559 | | | | | 1128 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 52 | | | | | 52 |
| B | 1 | 0 | 2 | | | | | 3 |
| C | 51 | 1 | 0 | | | | | 52 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 52 | 1 | 54 | | | | | 106 |

HGV

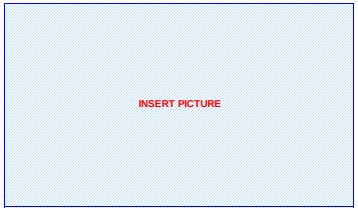
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 121 | | | | | 125 |
| B | 6 | 0 | 7 | | | | | 13 |
| C | 116 | 7 | 0 | | | | | 124 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 12 | 128 | | | | | 262 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** 3 Arrows (Pilsworth Road / Moss Hall Road - South)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 60241 | 2037 | 2037 | 60241 | *Link Road* |
| D | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 157 | 674 | 12 | | | | 843 |
| B | 106 | 0 | 394 | 5 | | | | 506 |
| C | 611 | 754 | 0 | 14 | | | | 1379 |
| D | 2 | 2 | 13 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 719 | 913 | 1082 | 31 | | | | 2746 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 89 | 359 | 6 | | | | 454 |
| B | 44 | 0 | 257 | 3 | | | | 304 |
| C | 428 | 427 | 0 | 4 | | | | 860 |
| D | 1 | 1 | 1 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 474 | 517 | 617 | 13 | | | | 1620 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 99 | 2 | | | | 115 |
| B | 17 | 0 | 56 | 2 | | | | 74 |
| C | 33 | 92 | 0 | 3 | | | | 128 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 106 | 155 | 6 | | | | 316 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 216 | 4 | | | | 274 |
| B | 45 | 0 | 82 | 1 | | | | 128 |
| C | 150 | 234 | 0 | 7 | | | | 391 |
| D | 1 | 2 | 13 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 196 | 290 | 311 | 13 | | | | 809 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 83 | 549 | 5 | | | | 637 |
| B | 151 | 0 | 407 | 5 | | | | 563 |
| C | 499 | 478 | 0 | 19 | | | | 996 |
| D | 9 | 4 | 17 | 0 | | | | 31 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 659 | 566 | 974 | 28 | | | | 2227 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 260 | 3 | | | | 296 |
| B | 52 | 0 | 250 | 1 | | | | 303 |
| C | 275 | 235 | 0 | 2 | | | | 511 |
| D | 3 | 1 | 5 | 0 | | | | 8 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 330 | 268 | 515 | 5 | | | | 1119 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 73 | 2 | | | | 96 |
| B | 39 | 0 | 74 | 1 | | | | 113 |
| C | 60 | 91 | 0 | 1 | | | | 152 |
| D | 2 | 0 | 1 | 0 | | | | 4 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 101 | 111 | 148 | 4 | | | | 365 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 215 | 0 | | | | 245 |
| B | 60 | 0 | 83 | 3 | | | | 147 |
| C | 164 | 153 | 0 | 15 | | | | 333 |
| D | 4 | 3 | 12 | 0 | | | | 19 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 228 | 186 | 310 | 19 | | | | 743 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 689 | 14 | | | | 740 |
| B | 167 | 0 | 609 | 10 | | | | 785 |
| C | 558 | 421 | 0 | 10 | | | | 989 |
| D | 8 | 1 | 10 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 733 | 459 | 1307 | 34 | | | | 2533 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 534 | 9 | | | | 559 |
| B | 76 | 0 | 518 | 6 | | | | 600 |
| C | 476 | 359 | 0 | 8 | | | | 843 |
| D | 6 | 1 | 6 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 558 | 377 | 1058 | 22 | | | | 2015 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 48 | 0 | | | | 54 |
| B | 11 | 0 | 47 | 0 | | | | 59 |
| C | 39 | 17 | 0 | 1 | | | | 57 |
| D | 2 | 0 | 2 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 52 | 22 | 98 | 1 | | | | 172 |

MODELLED — HGV

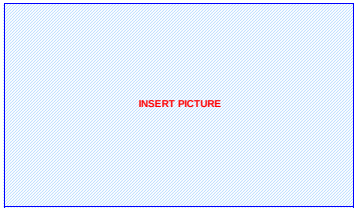
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 107 | 5 | | | | 128 |
| B | 80 | 0 | 43 | 4 | | | | 127 |
| C | 44 | 45 | 0 | 1 | | | | 90 |
| D | 0 | 0 | 2 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 124 | 60 | 152 | 11 | | | | 346 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Fowler Welch (Pilsworth Road / Moss Hall Road - North)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60241 | 60246 | 60246 | 60241 | *Moss Hall Rd NB* |
| B | 60000 | 60213 | 60213 | 60000 | *Pilsworth Road* |
| C | 60228 | 2038 | 2038 | 60228 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 940 | 142 | | | | | 1082 |
| B | 1056 | 0 | 115 | | | | | 1171 |
| C | 324 | 88 | 0 | | | | | 412 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1380 | 1028 | 257 | | | | | 2665 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 572 | 45 | | | | | 617 |
| B | 636 | 0 | 84 | | | | | 720 |
| C | 225 | 64 | 0 | | | | | 289 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 861 | 636 | 129 | | | | | 1626 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 115 | 39 | | | | | 154 |
| B | 77 | 0 | 17 | | | | | 94 |
| C | 51 | 16 | 0 | | | | | 67 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 128 | 131 | 56 | | | | | 315 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 253 | 58 | | | | | 311 |
| B | 343 | 0 | 14 | | | | | 357 |
| C | 48 | 8 | 0 | | | | | 56 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 391 | 261 | 72 | | | | | 724 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 684 | 291 | | | | | 975 |
| B | 897 | 0 | 80 | | | | | 977 |
| C | 99 | 105 | 0 | | | | | 204 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 996 | 789 | 371 | | | | | 2156 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 329 | 187 | | | | | 516 |
| B | 497 | 0 | 61 | | | | | 558 |
| C | 14 | 84 | 0 | | | | | 98 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 511 | 413 | 248 | | | | | 1172 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 99 | 49 | | | | | 148 |
| B | 120 | 0 | 12 | | | | | 132 |
| C | 33 | 16 | 0 | | | | | 49 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 153 | 115 | 61 | | | | | 329 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 256 | 55 | | | | | 311 |
| B | 280 | 0 | 7 | | | | | 287 |
| C | 52 | 5 | 0 | | | | | 57 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 332 | 261 | 62 | | | | | 655 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 873 | 436 | | | | | 1309 |
| B | 908 | 0 | 173 | | | | | 1081 |
| C | 81 | 132 | 0 | | | | | 213 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 989 | 1005 | 609 | | | | | 2603 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 686 | 373 | | | | | 1059 |
| B | 804 | 0 | 152 | | | | | 956 |
| C | 38 | 118 | 0 | | | | | 156 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 842 | 804 | 525 | | | | | 2171 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 68 | 30 | | | | | 98 |
| B | 43 | 0 | 19 | | | | | 62 |
| C | 14 | 13 | 0 | | | | | 27 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 81 | 49 | | | | | 187 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 119 | 33 | | | | | 152 |
| B | 61 | 0 | 2 | | | | | 63 |
| C | 29 | 1 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 90 | 120 | 35 | | | | | 245 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | *TC 11 - Pilsworth Rd E* |
| B | 3001 | 60238 | 60239 | 3000 | *JTC 11 - M66 SB Off* |
| C | 60213 | 60000 | 60000 | 60213 | *TC 11 - Pilsworth Rd W* |
| D | 60236 | 4918 | 60240 | 2998 | *JTC 11 - M66 NB Off* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 384 | 465 | 190 | | | | 1039 |
| B | 386 | 0 | 332 | 0 | | | | 718 |
| C | 405 | 216 | 0 | 408 | | | | 1029 |
| D | 725 | 0 | 374 | 0 | | | | 1099 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1516 | 600 | 1171 | 598 | | | | 3885 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 267 | 370 | 115 | | | | 752 |
| B | 308 | 0 | 157 | 0 | | | | 465 |
| C | 318 | 159 | 0 | 159 | | | | 636 |
| D | 601 | 0 | 193 | 0 | | | | 794 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1227 | 426 | 720 | 274 | | | | 2647 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 49 | 58 | | | | 170 |
| B | 45 | 0 | 12 | 0 | | | | 57 |
| C | 56 | 34 | 0 | 42 | | | | 132 |
| D | 70 | 0 | 33 | 0 | | | | 103 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 171 | 97 | 94 | 100 | | | | 462 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 46 | 17 | | | | 117 |
| B | 33 | 0 | 163 | 0 | | | | 196 |
| C | 31 | 23 | 0 | 207 | | | | 261 |
| D | 54 | 0 | 148 | 0 | | | | 202 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 118 | 77 | 357 | 224 | | | | 776 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 464 | 429 | 189 | | | | 1082 |
| B | 339 | 0 | 220 | 0 | | | | 559 |
| C | 258 | 103 | 0 | 425 | | | | 786 |
| D | 395 | 0 | 328 | 0 | | | | 723 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 992 | 567 | 977 | 614 | | | | 3150 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 356 | 279 | 165 | | | | 800 |
| B | 251 | 0 | 164 | 0 | | | | 415 |
| C | 196 | 63 | 0 | 152 | | | | 411 |
| D | 282 | 0 | 116 | 0 | | | | 398 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 729 | 419 | 559 | 317 | | | | 2024 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 61 | 23 | | | | 145 |
| B | 46 | 0 | 21 | 0 | | | | 67 |
| C | 34 | 17 | 0 | 64 | | | | 115 |
| D | 55 | 0 | 49 | 0 | | | | 104 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 135 | 78 | 131 | 87 | | | | 431 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 89 | 1 | | | | 137 |
| B | 42 | 0 | 35 | 0 | | | | 77 |
| C | 28 | 23 | 0 | 209 | | | | 260 |
| D | 58 | 0 | 163 | 0 | | | | 221 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 128 | 70 | 287 | 210 | | | | 695 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 539 | 543 | 191 | | | | 1273 |
| B | 295 | 0 | 275 | 0 | | | | 570 |
| C | 358 | 188 | 0 | 456 | | | | 1002 |
| D | 518 | 0 | 263 | 0 | | | | 781 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1171 | 727 | 1081 | 647 | | | | 3626 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 490 | 501 | 169 | | | | 1160 |
| B | 258 | 0 | 251 | 0 | | | | 509 |
| C | 312 | 161 | 0 | 329 | | | | 802 |
| D | 390 | 0 | 203 | 0 | | | | 593 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 960 | 651 | 955 | 498 | | | | 3064 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 23 | 20 | | | | 77 |
| B | 28 | 0 | 11 | 0 | | | | 39 |
| C | 24 | 25 | 0 | 32 | | | | 81 |
| D | 63 | 0 | 29 | 0 | | | | 92 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 115 | 59 | 63 | 52 | | | | 289 |

MODELLED — HGV

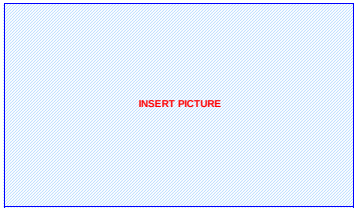
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 19 | 2 | | | | 36 |
| B | 9 | 0 | 13 | 0 | | | | 22 |
| C | 22 | 2 | 0 | 95 | | | | 119 |
| D | 65 | 0 | 31 | 0 | | | | 96 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 17 | 63 | 97 | | | | 273 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N\12 - M66 NB Of |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water\ 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 148 | 109 | 414 | 1305 | 52 | | 2028 |
| B | 284 | 0 | 26 | 228 | 0 | 38 | | 576 |
| C | 63 | 3 | 0 | 10 | 21 | 0 | | 97 |
| D | 646 | 240 | 26 | 0 | 275 | 74 | | 1261 |
| E | 1509 | 0 | 68 | 166 | 0 | 106 | | 1849 |
| F | 40 | 5 | 1 | 40 | 28 | 0 | | 114 |
| G | | | | | | | | |
| TOTAL | 2542 | 396 | 230 | 858 | 1629 | 270 | | 5925 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 112 | 44 | 318 | 992 | 48 | | 1514 |
| B | 262 | 0 | 24 | 157 | 0 | 32 | | 475 |
| C | 11 | 1 | 0 | 4 | 7 | 0 | | 23 |
| D | 531 | 163 | 22 | 0 | 180 | 41 | | 937 |
| E | 1145 | 0 | 52 | 96 | 0 | 97 | | 1390 |
| F | 32 | 3 | 1 | 23 | 20 | 0 | | 79 |
| G | | | | | | | | |
| TOTAL | 1981 | 279 | 143 | 598 | 1199 | 218 | | 4418 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 33 | 60 | 198 | 3 | | 324 |
| B | 17 | 0 | 2 | 44 | 0 | 1 | | 64 |
| C | 37 | 2 | 0 | 5 | 9 | 0 | | 53 |
| D | 50 | 41 | 3 | 0 | 50 | 12 | | 156 |
| E | 179 | 0 | 8 | 44 | 0 | 6 | | 237 |
| F | 3 | 1 | 0 | 5 | 5 | 0 | | 14 |
| G | | | | | | | | |
| TOTAL | 286 | 74 | 46 | 158 | 262 | 22 | | 848 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 32 | 36 | 115 | 1 | | 190 |
| B | 5 | 0 | 0 | 27 | 0 | 5 | | 37 |
| C | 15 | 0 | 0 | 1 | 5 | 0 | | 21 |
| D | 65 | 36 | 1 | 0 | 45 | 21 | | 168 |
| E | 185 | 0 | 8 | 26 | 0 | 3 | | 222 |
| F | 5 | 1 | 0 | 12 | 3 | 0 | | 21 |
| G | | | | | | | | |
| TOTAL | 275 | 43 | 41 | 102 | 168 | 30 | | 659 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 169 | 116 | 274 | 1304 | 32 | | 1895 |
| B | 213 | 0 | 22 | 196 | 0 | 12 | | 443 |
| C | 83 | 13 | 0 | 14 | 36 | 1 | | 147 |
| D | 511 | 157 | 32 | 0 | 113 | 63 | | 876 |
| E | 1258 | 0 | 49 | 196 | 0 | 47 | | 1550 |
| F | 47 | 14 | 2 | 46 | 48 | 0 | | 157 |
| G | | | | | | | | |
| TOTAL | 2112 | 353 | 221 | 726 | 1501 | 155 | | 5068 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 121 | 58 | 190 | 955 | 27 | | 1351 |
| B | 173 | 0 | 17 | 124 | 0 | 9 | | 323 |
| C | 29 | 8 | 0 | 9 | 24 | 1 | | 71 |
| D | 386 | 98 | 23 | 0 | 54 | 30 | | 591 |
| E | 896 | 0 | 37 | 109 | 0 | 35 | | 1077 |
| F | 42 | 11 | 2 | 23 | 41 | 0 | | 119 |
| G | | | | | | | | |
| TOTAL | 1526 | 238 | 137 | 455 | 1074 | 102 | | 3532 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 38 | 45 | 196 | 3 | | 309 |
| B | 22 | 0 | 3 | 27 | 0 | 1 | | 53 |
| C | 44 | 3 | 0 | 4 | 7 | 0 | | 58 |
| D | 72 | 34 | 6 | 0 | 28 | 14 | | 154 |
| E | 209 | 0 | 8 | 49 | 0 | 5 | | 271 |
| F | 4 | 2 | 0 | 10 | 4 | 0 | | 20 |
| G | | | | | | | | |
| TOTAL | 351 | 66 | 55 | 135 | 235 | 23 | | 865 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 20 | 39 | 153 | 2 | | 235 |
| B | 18 | 0 | 2 | 45 | 0 | 2 | | 67 |
| C | 10 | 2 | 0 | 1 | 5 | 0 | | 18 |
| D | 53 | 25 | 3 | 0 | 31 | 19 | | 131 |
| E | 153 | 0 | 4 | 38 | 0 | 7 | | 202 |
| F | 1 | 1 | 0 | 13 | 3 | 0 | | 18 |
| G | | | | | | | | |
| TOTAL | 235 | 49 | 29 | 136 | 192 | 30 | | 671 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 1 | 262 | 35 | 413 | 1412 | 42 | | 2165 |
| B | 286 | 0 | 6 | 157 | 0 | 13 | | 462 |
| C | 53 | 13 | 0 | 18 | 49 | 1 | | 134 |
| D | 691 | 166 | 14 | 0 | 171 | 69 | | 1111 |
| E | 1400 | 0 | 19 | 319 | 0 | 58 | | 1796 |
| F | 44 | 21 | 0 | 55 | 114 | 0 | | 234 |
| G | | | | | | | | |
| TOTAL | 2475 | 462 | 74 | 962 | 1746 | 183 | | 5902 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 1 | 247 | 18 | 368 | 1296 | 40 | | 1970 |
| B | 265 | 0 | 5 | 138 | 0 | 12 | | 420 |
| C | 24 | 12 | 0 | 16 | 46 | 1 | | 99 |
| D | 612 | 149 | 12 | 0 | 135 | 58 | | 966 |
| E | 1226 | 0 | 15 | 269 | 0 | 45 | | 1555 |
| F | 40 | 20 | 0 | 45 | 111 | 0 | | 216 |
| G | | | | | | | | |
| TOTAL | 2168 | 428 | 50 | 836 | 1588 | 156 | | 5226 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 15 | 29 | 92 | 2 | | 152 |
| B | 18 | 0 | 1 | 17 | 0 | 1 | | 37 |
| C | 25 | 1 | 0 | 2 | 3 | 0 | | 31 |
| D | 48 | 14 | 2 | 0 | 23 | 10 | | 97 |
| E | 133 | 0 | 4 | 35 | 0 | 6 | | 178 |
| F | 3 | 1 | 0 | 4 | 2 | 0 | | 10 |
| G | | | | | | | | |
| TOTAL | 227 | 30 | 22 | 87 | 120 | 19 | | 505 |

MODELLED — HGV

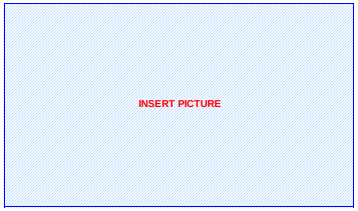
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 16 | 24 | 0 | | 43 |
| B | 3 | 0 | 0 | 2 | 0 | 0 | | 5 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 31 | 3 | 0 | 0 | 13 | 1 | | 48 |
| E | 41 | 0 | 0 | 15 | 0 | 7 | | 63 |
| F | 1 | 0 | 0 | 6 | 1 | 0 | | 8 |
| G | | | | | | | | |
| TOTAL | 80 | 4 | 2 | 39 | 38 | 8 | | 171 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | Heywood Old Road NE |
| B | 60074 | 2478 | 2478 | 60074 | Whittle Lane |
| C | 4730 | 2478 | 2478 | 4730 | Heywood Old Road SE |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 411 | | | | | 487 |
| B | 4 | 0 | 52 | | | | | 56 |
| C | 573 | 146 | 0 | | | | | 719 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 577 | 222 | 463 | | | | | 1262 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 68 | 302 | | | | | 370 |
| B | 2 | 0 | 38 | | | | | 40 |
| C | 441 | 124 | 0 | | | | | 565 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 443 | 192 | 341 | | | | | 976 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 60 | | | | | 68 |
| B | 2 | 0 | 14 | | | | | 16 |
| C | 107 | 21 | 0 | | | | | 129 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 109 | 29 | 74 | | | | | 212 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 47 | | | | | 47 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 25 | 0 | 0 | | | | | 25 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 25 | 0 | 47 | | | | | 72 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 560 | | | | | 583 |
| B | 6 | 0 | 85 | | | | | 91 |
| C | 328 | 68 | 0 | | | | | 396 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 334 | 91 | 645 | | | | | 1069 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 385 | | | | | 397 |
| B | 5 | 0 | 58 | | | | | 62 |
| C | 252 | 44 | 0 | | | | | 296 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 256 | 56 | 443 | | | | | 755 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 82 | | | | | 93 |
| B | 1 | 0 | 27 | | | | | 28 |
| C | 38 | 24 | 0 | | | | | 62 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 35 | 108 | | | | | 183 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 91 | | | | | 91 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 38 | 0 | 0 | | | | | 38 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 0 | 91 | | | | | 129 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.98 | | | | | 1.98 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 835 | | | | | 847 |
| B | 12 | 0 | 125 | | | | | 137 |
| C | 404 | 95 | 0 | | | | | 500 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 416 | 107 | 960 | | | | | 1483 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 716 | | | | | 725 |
| B | 11 | 0 | 110 | | | | | 121 |
| C | 357 | 85 | 0 | | | | | 441 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 368 | 94 | 826 | | | | | 1288 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 93 | | | | | 95 |
| B | 1 | 0 | 15 | | | | | 16 |
| C | 39 | 10 | 0 | | | | | 50 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 13 | 108 | | | | | 161 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 24 | | | | | 24 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 9 | 0 | 0 | | | | | 9 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 9 | 0 | 24 | | | | | 33 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.92 | | | | | 1.92 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Heywood Old Road / Langley Lane

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | Heywood Old Road SB |
| B | 15238 | 4730 | 4730 | 15238 | Langley Lane |
| C | 2478 | 4730 | 4730 | 2478 | Heywood Old Road NB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 91 | 371 | | | | | 462 |
| B | 133 | 0 | 347 | | | | | 480 |
| C | 345 | 118 | 0 | | | | | 463 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 478 | 209 | 719 | | | | | 1405 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 262 | | | | | 339 |
| B | 124 | 0 | 303 | | | | | 427 |
| C | 245 | 96 | 0 | | | | | 341 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 369 | 172 | 565 | | | | | 1106 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 88 | | | | | 95 |
| B | 5 | 0 | 40 | | | | | 46 |
| C | 54 | 20 | 0 | | | | | 74 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 59 | 26 | 129 | | | | | 214 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 21 | | | | | 26 |
| B | 4 | 0 | 4 | | | | | 8 |
| C | 47 | 0 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 6 | 25 | | | | | 81 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 231 | | | | | 278 |
| B | 70 | 0 | 165 | | | | | 235 |
| C | 469 | 175 | 0 | | | | | 645 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 540 | 222 | 396 | | | | | 1158 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 161 | | | | | 202 |
| B | 57 | 0 | 135 | | | | | 192 |
| C | 314 | 130 | 0 | | | | | 443 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 371 | 171 | 296 | | | | | 837 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 32 | | | | | 35 |
| B | 6 | 0 | 30 | | | | | 36 |
| C | 71 | 37 | 0 | | | | | 108 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 78 | 40 | 62 | | | | | 179 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 37 | | | | | 38 |
| B | 5 | 0 | 0 | | | | | 5 |
| C | 84 | 7 | 0 | | | | | 91 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 89 | 8 | 38 | | | | | 135 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.97 | 0 | | | | | 5.97 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 56 | 279 | | | | | 335 |
| B | 71 | 0 | 221 | | | | | 292 |
| C | 643 | 317 | 0 | | | | | 960 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 715 | 373 | 500 | | | | | 1588 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 242 | | | | | 291 |
| B | 65 | 0 | 200 | | | | | 264 |
| C | 552 | 274 | 0 | | | | | 826 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 617 | 324 | 441 | | | | | 1382 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 29 | | | | | 33 |
| B | 4 | 0 | 21 | | | | | 25 |
| C | 68 | 40 | 0 | | | | | 108 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 44 | 50 | | | | | 166 |

MODELLED — HGV

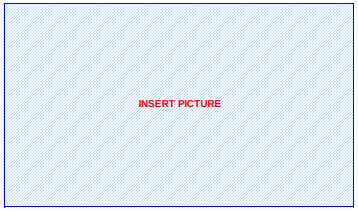
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 8 | | | | | 9 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 23 | 1 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 2 | 9 | | | | | 34 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 3.9 | 0 | | | | | 5.88 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Langley Lane / A6046 Hollin Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 116 | 855 | | | | | 971 |
| B | 103 | 0 | 41 | | | | | 143 |
| C | 684 | 7 | 0 | | | | | 691 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 786 | 123 | 896 | | | | | 1805 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 72 | 631 | | | | | 703 |
| B | 76 | 0 | 38 | | | | | 114 |
| C | 389 | 7 | 0 | | | | | 395 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 465 | 79 | 669 | | | | | 1213 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 150 | | | | | 189 |
| B | 22 | 0 | 1 | | | | | 23 |
| C | 159 | 1 | 0 | | | | | 159 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 180 | 40 | 151 | | | | | 371 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 55 | | | | | 59 |
| B | 1 | 0 | 1 | | | | | 2 |
| C | 107 | 0 | 0 | | | | | 107 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 108 | 4 | 56 | | | | | 168 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 20 | | | | | 20 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 0 | 20 | | | | | 53 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 92 | 830 | | | | | 922 |
| B | 95 | 0 | 10 | | | | | 105 |
| C | 595 | 16 | 0 | | | | | 611 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 690 | 109 | 840 | | | | | 1638 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 497 | | | | | 556 |
| B | 53 | 0 | 9 | | | | | 62 |
| C | 399 | 16 | 0 | | | | | 415 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 452 | 75 | 506 | | | | | 1033 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 156 | | | | | 187 |
| B | 33 | 0 | 0 | | | | | 34 |
| C | 96 | 0 | 0 | | | | | 96 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 129 | 31 | 157 | | | | | 317 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 157 | | | | | 157 |
| B | 5 | 0 | 0 | | | | | 6 |
| C | 76 | 0 | 0 | | | | | 76 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 1 | 157 | | | | | 239 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.76 | 1.99 | 19.92 | | | | | 49.67 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 158 | 802 | | | | | 959 |
| B | 99 | 0 | 14 | | | | | 112 |
| C | 785 | 51 | 0 | | | | | 836 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 884 | 208 | 815 | | | | | 1908 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 134 | 657 | | | | | 791 |
| B | 66 | 0 | 13 | | | | | 79 |
| C | 624 | 50 | 0 | | | | | 674 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 690 | 185 | 670 | | | | | 1545 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 80 | | | | | 100 |
| B | 27 | 0 | 0 | | | | | 28 |
| C | 94 | 1 | 0 | | | | | 95 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 22 | 80 | | | | | 223 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 38 | | | | | 38 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 43 | 0 | 0 | | | | | 44 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 45 | 0 | 38 | | | | | 83 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 27 | | | | | 29 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 23 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.28 | 1.96 | 27.4 | | | | | 56.64 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Coronation Avenue

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 126 | 318 | | | | | 444 |
| B | 368 | 0 | 40 | | | | | 408 |
| C | 497 | 178 | 0 | | | | | 675 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 865 | 304 | 357 | | | | | 1526 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 226 | | | | | 226 |
| B | 230 | 0 | 27 | | | | | 257 |
| C | 440 | 123 | 0 | | | | | 564 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 670 | 123 | 253 | | | | | 1047 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 68 | | | | | 68 |
| B | 46 | 0 | 10 | | | | | 56 |
| C | 31 | 45 | 0 | | | | | 75 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 77 | 45 | 78 | | | | | 199 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 97 | 19 | | | | | 116 |
| B | 72 | 0 | 3 | | | | | 75 |
| C | 26 | 10 | 0 | | | | | 36 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 98 | 107 | 22 | | | | | 227 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 4 | | | | | 33 |
| B | 19 | 0 | 0 | | | | | 19 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 29 | 4 | | | | | 53 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 107 | 284 | | | | | 391 |
| B | 246 | 0 | 26 | | | | | 272 |
| C | 485 | 100 | 0 | | | | | 584 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 731 | 207 | 311 | | | | | 1248 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 195 | | | | | 195 |
| B | 114 | 0 | 5 | | | | | 119 |
| C | 339 | 67 | 0 | | | | | 406 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 453 | 67 | 200 | | | | | 720 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 49 | | | | | 49 |
| B | 2 | 0 | 8 | | | | | 10 |
| C | 98 | 26 | 0 | | | | | 124 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 100 | 26 | 57 | | | | | 183 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 83 | 34 | | | | | 118 |
| B | 110 | 0 | 13 | | | | | 123 |
| C | 46 | 7 | 0 | | | | | 53 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 156 | 90 | 48 | | | | | 293 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.88 | 23.82 | 5.95 | | | | | 51.65 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 56 | 372 | | | | | 428 |
| B | 333 | 0 | 22 | | | | | 355 |
| C | 561 | 114 | 0 | | | | | 675 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 894 | 170 | 394 | | | | | 1457 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 308 | | | | | 308 |
| B | 267 | 0 | 7 | | | | | 273 |
| C | 481 | 94 | 0 | | | | | 575 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 748 | 94 | 315 | | | | | 1156 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 40 | | | | | 40 |
| B | 5 | 0 | 14 | | | | | 19 |
| C | 51 | 18 | 0 | | | | | 69 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 18 | 55 | | | | | 129 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 19 | | | | | 52 |
| B | 34 | 0 | 1 | | | | | 35 |
| C | 27 | 1 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 61 | 34 | 21 | | | | | 116 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 4 | | | | | 27 |
| B | 27 | 0 | 0 | | | | | 27 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.95 | 23.49 | 3.92 | | | | | 56.36 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / Hollins Lane

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 390 | 493 | | | | | 883 |
| B | 241 | 0 | 48 | | | | | 289 |
| C | 750 | 65 | 0 | | | | | 816 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 991 | 455 | 541 | | | | | 1987 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 336 | 416 | | | | | 752 |
| B | 175 | 0 | 37 | | | | | 213 |
| C | 624 | 47 | 0 | | | | | 671 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 799 | 383 | 453 | | | | | 1635 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 54 | | | | | 98 |
| B | 43 | 0 | 4 | | | | | 47 |
| C | 82 | 11 | 0 | | | | | 92 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 125 | 55 | 58 | | | | | 238 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 23 | | | | | 29 |
| B | 19 | 0 | 0 | | | | | 19 |
| C | 45 | 2 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 64 | 7 | 24 | | | | | 94 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 201 | 524 | | | | | 724 |
| B | 190 | 0 | 42 | | | | | 233 |
| C | 634 | 44 | 0 | | | | | 678 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 825 | 244 | 566 | | | | | 1635 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 163 | 402 | | | | | 565 |
| B | 142 | 0 | 28 | | | | | 170 |
| C | 483 | 29 | 0 | | | | | 512 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 626 | 192 | 429 | | | | | 1247 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 74 | | | | | 103 |
| B | 31 | 0 | 8 | | | | | 39 |
| C | 92 | 8 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 37 | 82 | | | | | 242 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 48 | | | | | 55 |
| B | 13 | 0 | 0 | | | | | 13 |
| C | 59 | 0 | 0 | | | | | 60 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 7 | 48 | | | | | 128 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 4 | 7.96 | 5.99 | | | | | 17.95 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 342 | 568 | | | | | 910 |
| B | 173 | 0 | 40 | | | | | 213 |
| C | 696 | 45 | 0 | | | | | 741 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 869 | 387 | 608 | | | | | 1864 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 300 | 506 | | | | | 806 |
| B | 145 | 0 | 29 | | | | | 174 |
| C | 629 | 33 | 0 | | | | | 662 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 774 | 332 | 535 | | | | | 1641 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 49 | | | | | 83 |
| B | 19 | 0 | 5 | | | | | 24 |
| C | 47 | 6 | 0 | | | | | 54 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 66 | 41 | 54 | | | | | 161 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 13 | | | | | 17 |
| B | 7 | 0 | 0 | | | | | 7 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 27 | 4 | 14 | | | | | 45 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 9.83 | 5.94 | | | | | 17.75 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / A56 Manchester Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 632 | 633 | | | | | 1265 |
| B | 475 | 0 | 66 | | | | | 541 |
| C | 933 | 183 | 0 | | | | | 1117 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1409 | 816 | 698 | | | | | 2923 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 534 | 505 | | | | | 1038 |
| B | 404 | 0 | 49 | | | | | 453 |
| C | 810 | 137 | 0 | | | | | 948 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1214 | 671 | 554 | | | | | 2439 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 71 | | | | | 132 |
| B | 50 | 0 | 8 | | | | | 58 |
| C | 73 | 32 | 0 | | | | | 105 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 124 | 92 | 78 | | | | | 294 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 37 | | | | | 69 |
| B | 15 | 0 | 9 | | | | | 24 |
| C | 30 | 15 | 0 | | | | | 45 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 45 | 47 | 46 | | | | | 137 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 6 | 20 | | | | | 52 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 452 | 678 | | | | | 1130 |
| B | 389 | 0 | 178 | | | | | 566 |
| C | 724 | 226 | 0 | | | | | 950 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1113 | 678 | 856 | | | | | 2646 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 349 | 537 | | | | | 886 |
| B | 305 | 0 | 124 | | | | | 429 |
| C | 566 | 163 | 0 | | | | | 729 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 871 | 512 | 661 | | | | | 2044 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 67 | 83 | | | | | 150 |
| B | 53 | 0 | 29 | | | | | 82 |
| C | 99 | 33 | 0 | | | | | 133 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 153 | 100 | 113 | | | | | 365 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 38 | | | | | 68 |
| B | 24 | 0 | 24 | | | | | 48 |
| C | 37 | 30 | 0 | | | | | 67 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 61 | 60 | 62 | | | | | 183 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.88 | 5.98 | 19.93 | | | | | 53.79 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 599 | 696 | | | | | 1295 |
| B | 492 | 0 | 116 | | | | | 608 |
| C | 863 | 143 | 0 | | | | | 1006 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1355 | 741 | 812 | | | | | 2909 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 546 | 604 | | | | | 1149 |
| B | 431 | 0 | 104 | | | | | 535 |
| C | 758 | 116 | 0 | | | | | 874 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1189 | 662 | 708 | | | | | 2559 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 63 | | | | | 99 |
| B | 44 | 0 | 9 | | | | | 54 |
| C | 73 | 17 | 0 | | | | | 90 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 117 | 54 | 73 | | | | | 243 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 10 | | | | | 21 |
| B | 11 | 0 | 2 | | | | | 14 |
| C | 13 | 9 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 20 | 12 | | | | | 56 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 25.4 | 5.96 | 19.88 | | | | | 51.24 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 28859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1042 | 3388 | 904 | | | | 5334 |
| B | 601 | 0 | 1085 | 4781 | | | | 6467 |
| C | 3339 | 332 | 0 | 1204 | | | | 4875 |
| D | 1186 | 5335 | 2297 | 0 | | | | 8818 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5126 | 6709 | 6770 | 6889 | | | | 25494 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 849 | 2230 | 533 | | | | 3612 |
| B | 547 | 0 | 819 | 2417 | | | | 3783 |
| C | 2288 | 238 | 0 | 635 | | | | 3161 |
| D | 625 | 2598 | 1337 | 0 | | | | 4560 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3460 | 3685 | 4386 | 3585 | | | | 15116 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 173 | 712 | 145 | | | | 1030 |
| B | 45 | 0 | 87 | 851 | | | | 983 |
| C | 515 | 59 | 0 | 401 | | | | 975 |
| D | 335 | 1011 | 548 | 0 | | | | 1894 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 895 | 1243 | 1347 | 1397 | | | | 4882 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 446 | 226 | | | | 692 |
| B | 9 | 0 | 179 | 1513 | | | | 1701 |
| C | 536 | 35 | 0 | 168 | | | | 739 |
| D | 226 | 1726 | 412 | 0 | | | | 2364 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 771 | 1781 | 1037 | 1907 | | | | 5496 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 840 | 1937 | 994 | | | | 3771 |
| B | 505 | 0 | 585 | 5247 | | | | 6337 |
| C | 2676 | 297 | 0 | 906 | | | | 3879 |
| D | 1139 | 5303 | 2122 | 0 | | | | 8564 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4320 | 6440 | 4644 | 7147 | | | | 22551 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 660 | 1197 | 407 | | | | 2264 |
| B | 492 | 0 | 410 | 2553 | | | | 3455 |
| C | 1744 | 185 | 0 | 412 | | | | 2341 |
| D | 421 | 2406 | 1123 | 0 | | | | 3950 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2657 | 3251 | 2730 | 3372 | | | | 12010 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 123 | 431 | 227 | | | | 781 |
| B | 13 | 0 | 94 | 1095 | | | | 1202 |
| C | 502 | 48 | 0 | 258 | | | | 808 |
| D | 275 | 1037 | 468 | 0 | | | | 1780 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 790 | 1208 | 993 | 1580 | | | | 4571 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 57 | 309 | 360 | | | | 726 |
| B | 0 | 0 | 81 | 1599 | | | | 1680 |
| C | 430 | 64 | 0 | 236 | | | | 730 |
| D | 443 | 1860 | 531 | 0 | | | | 2834 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 873 | 1981 | 921 | 2195 | | | | 5970 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 926 | 2691 | 998 | | | | 4615 |
| B | 277 | 0 | 842 | 5404 | | | | 6523 |
| C | 3869 | 372 | 0 | 936 | | | | 5177 |
| D | 1435 | 5107 | 2429 | 0 | | | | 8971 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5581 | 6405 | 5962 | 7338 | | | | 25286 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 840 | 2245 | 649 | | | | 3734 |
| B | 266 | 0 | 794 | 3565 | | | | 4625 |
| C | 3124 | 281 | 0 | 640 | | | | 4045 |
| D | 1034 | 3399 | 1717 | 0 | | | | 6150 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4424 | 4520 | 4756 | 4854 | | | | 18554 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 83 | 352 | 169 | | | | 604 |
| B | 11 | 0 | 31 | 770 | | | | 812 |
| C | 497 | 72 | 0 | 253 | | | | 822 |
| D | 250 | 719 | 436 | 0 | | | | 1405 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 758 | 874 | 819 | 1192 | | | | 3643 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 94 | 180 | | | | 277 |
| B | 0 | 0 | 17 | 1069 | | | | 1086 |
| C | 248 | 19 | 0 | 43 | | | | 310 |
| D | 151 | 989 | 276 | 0 | | | | 1416 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 399 | 1011 | 387 | 1292 | | | | 3089 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | JTC 20 - A627 SB |
| B | 2727 | 2724 | 2723 | 2725 | JTC 20 - M62 WB |
| C | 2768 | 4932 | 4929 | 2767 | JTC 20 - A627 NB |
| D | 2719 | 2721 | 2722 | 2720 | JTC 20 - M62 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 272 | 1016 | 895 | | | | 2183 |
| B | 210 | 0 | 1090 | 4934 | | | | 6234 |
| C | 1006 | 823 | 0 | 1127 | | | | 2956 |
| D | 922 | 5353 | 1069 | 0 | | | | 7344 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2138 | 6448 | 3175 | 6956 | | | | 18717 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 202 | 763 | 540 | | | | 1505 |
| B | 179 | 0 | 771 | 2550 | | | | 3500 |
| C | 806 | 456 | 0 | 754 | | | | 2016 |
| D | 519 | 2737 | 714 | 0 | | | | 3970 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1504 | 3395 | 2248 | 3844 | | | | 10991 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 108 | 140 | | | | 276 |
| B | 25 | 0 | 155 | 790 | | | | 970 |
| C | 111 | 110 | 0 | 189 | | | | 410 |
| D | 150 | 953 | 196 | 0 | | | | 1299 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 286 | 1091 | 459 | 1119 | | | | 2955 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 145 | 215 | | | | 402 |
| B | 6 | 0 | 164 | 1594 | | | | 1764 |
| C | 89 | 257 | 0 | 184 | | | | 530 |
| D | 253 | 1663 | 159 | 0 | | | | 2075 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 348 | 1962 | 468 | 1993 | | | | 4771 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 139 | 822 | 723 | | | | 1684 |
| B | 253 | 0 | 964 | 4811 | | | | 6028 |
| C | 321 | 690 | 0 | 845 | | | | 1856 |
| D | 783 | 5519 | 779 | 0 | | | | 7081 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1357 | 6348 | 2565 | 6379 | | | | 16649 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 79 | 587 | 393 | | | | 1059 |
| B | 93 | 0 | 449 | 2486 | | | | 3028 |
| C | 152 | 330 | 0 | 571 | | | | 1053 |
| D | 538 | 2593 | 537 | 0 | | | | 3668 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 783 | 3002 | 1573 | 3450 | | | | 8808 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 117 | 140 | | | | 276 |
| B | 22 | 0 | 176 | 826 | | | | 1024 |
| C | 101 | 115 | 0 | 200 | | | | 416 |
| D | 145 | 965 | 153 | 0 | | | | 1263 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 268 | 1099 | 446 | 1166 | | | | 2979 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 118 | 190 | | | | 349 |
| B | 138 | 0 | 339 | 1499 | | | | 1976 |
| C | 68 | 245 | 0 | 74 | | | | 387 |
| D | 100 | 1961 | 89 | 0 | | | | 2150 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 306 | 2247 | 546 | 1763 | | | | 4862 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 245 | 933 | 1075 | | | | 2253 |
| B | 188 | 0 | 1075 | 4508 | | | | 5771 |
| C | 947 | 942 | 0 | 1217 | | | | 3106 |
| D | 640 | 5368 | 1020 | 0 | | | | 7028 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1775 | 6555 | 3028 | 6800 | | | | 18158 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 190 | 692 | 733 | | | | 1615 |
| B | 134 | 0 | 833 | 2947 | | | | 3914 |
| C | 820 | 700 | 0 | 981 | | | | 2501 |
| D | 510 | 3740 | 883 | 0 | | | | 5133 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1464 | 4630 | 2408 | 4661 | | | | 13163 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 118 | 136 | | | | 280 |
| B | 13 | 0 | 97 | 574 | | | | 684 |
| C | 98 | 140 | 0 | 148 | | | | 386 |
| D | 94 | 705 | 97 | 0 | | | | 896 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 205 | 871 | 312 | 858 | | | | 2246 |

MODELLED — HGV

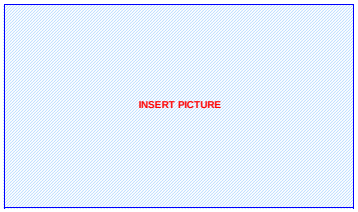
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 123 | 206 | | | | 358 |
| B | 41 | 0 | 145 | 987 | | | | 1173 |
| C | 29 | 102 | 0 | 88 | | | | 219 |
| D | 36 | 923 | 40 | 0 | | | | 999 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 106 | 1054 | 308 | 1281 | | | | 2749 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J19




### Arm Description

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | JTC 21 - M60 SB |
| B | 14141 | 5666 | 5093 | 14141 | JTC 21 - A576 WB |
| C | 5668 | 5665 | 5667 | 5669 | JTC 21 - M60 NB |
| D | 3414 | 5096 | 5095 | 3414 | JTC 21 - A576 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 577 | 0 | 977 | | | | 1554 |
| B | 390 | 0 | 286 | 475 | | | | 1151 |
| C | 0 | 265 | 26 | 573 | | | | 864 |
| D | 507 | 275 | 775 | 0 | | | | 1557 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 897 | 1117 | 1087 | 2025 | | | | 5126 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 428 | 0 | 811 | | | | 1239 |
| B | 278 | 0 | 180 | 416 | | | | 874 |
| C | 0 | 160 | 23 | 472 | | | | 655 |
| D | 419 | 246 | 667 | 0 | | | | 1332 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 697 | 834 | 870 | 1699 | | | | 4100 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 92 | 0 | 78 | | | | 170 |
| B | 42 | 0 | 86 | 56 | | | | 184 |
| C | 0 | 49 | 3 | 79 | | | | 131 |
| D | 50 | 21 | 89 | 0 | | | | 160 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 92 | 162 | 178 | 213 | | | | 645 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 57 | 0 | 88 | | | | 145 |
| B | 70 | 0 | 20 | 3 | | | | 93 |
| C | 0 | 56 | 0 | 22 | | | | 78 |
| D | 38 | 8 | 19 | 0 | | | | 65 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 108 | 121 | 39 | 113 | | | | 381 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 407 | 0 | 696 | | | | 1103 |
| B | 262 | 0 | 249 | 336 | | | | 847 |
| C | 0 | 360 | 42 | 547 | | | | 949 |
| D | 541 | 492 | 663 | 0 | | | | 1696 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 803 | 1259 | 954 | 1579 | | | | 4595 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 274 | 0 | 545 | | | | 819 |
| B | 201 | 0 | 144 | 297 | | | | 642 |
| C | 0 | 206 | 42 | 436 | | | | 684 |
| D | 381 | 428 | 514 | 0 | | | | 1323 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 582 | 908 | 700 | 1278 | | | | 3468 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 83 | 0 | 96 | | | | 179 |
| B | 35 | 0 | 41 | 34 | | | | 110 |
| C | 0 | 78 | 0 | 75 | | | | 153 |
| D | 93 | 53 | 107 | 0 | | | | 253 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 128 | 214 | 148 | 205 | | | | 695 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 0 | 55 | | | | 105 |
| B | 26 | 0 | 64 | 5 | | | | 95 |
| C | 0 | 76 | 0 | 36 | | | | 112 |
| D | 67 | 11 | 42 | 0 | | | | 120 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 93 | 137 | 106 | 96 | | | | 432 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 445 | 0 | 1141 | | | | 1586 |
| B | 194 | 0 | 150 | 599 | | | | 943 |
| C | 5 | 377 | 9 | 527 | | | | 918 |
| D | 872 | 848 | 800 | 0 | | | | 2520 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1071 | 1670 | 959 | 2267 | | | | 5967 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 358 | 0 | 1065 | | | | 1423 |
| B | 168 | 0 | 116 | 543 | | | | 827 |
| C | 4 | 307 | 9 | 473 | | | | 793 |
| D | 759 | 784 | 726 | 0 | | | | 2269 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 931 | 1449 | 851 | 2081 | | | | 5312 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 0 | 56 | | | | 119 |
| B | 20 | 0 | 28 | 52 | | | | 100 |
| C | 1 | 50 | 0 | 54 | | | | 105 |
| D | 98 | 62 | 67 | 0 | | | | 227 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 119 | 175 | 95 | 162 | | | | 551 |

MODELLED — HGV

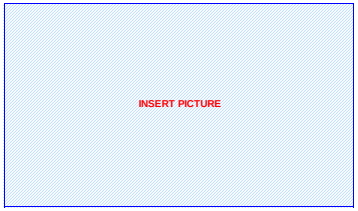
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 0 | 20 | | | | 44 |
| B | 6 | 0 | 6 | 4 | | | | 16 |
| C | 0 | 20 | 0 | 0 | | | | 20 |
| D | 15 | 2 | 7 | 0 | | | | 24 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 21 | 46 | 13 | 24 | | | | 104 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A576 Middleton Road / A6045 Heywood Old Road**




***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 2 | 500 | | | | 518 |
| B | 75 | 0 | 4 | 652 | | | | 730 |
| C | 5 | 4 | 0 | 15 | | | | 24 |
| D | 375 | 749 | 8 | 0 | | | | 1132 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 454 | 769 | 14 | 1167 | | | | 2404 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 1 | 363 | | | | 370 |
| B | 51 | 0 | 1 | 499 | | | | 551 |
| C | 3 | 2 | 0 | 11 | | | | 17 |
| D | 281 | 546 | 6 | 0 | | | | 833 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 335 | 554 | 9 | 873 | | | | 1771 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 0 | 107 | | | | 115 |
| B | 9 | 0 | 1 | 73 | | | | 83 |
| C | 1 | 1 | 0 | 3 | | | | 5 |
| D | 52 | 109 | 1 | 0 | | | | 162 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 62 | 117 | 2 | 183 | | | | 365 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 0 | 29 | | | | 33 |
| B | 15 | 0 | 2 | 62 | | | | 78 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 42 | 78 | 1 | 0 | | | | 121 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 81 | 3 | 92 | | | | 234 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 34 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 86 | 7 | 263 | | | | 355 |
| B | 102 | 0 | 6 | 594 | | | | 701 |
| C | 5 | 5 | 0 | 9 | | | | 19 |
| D | 508 | 760 | 9 | 0 | | | | 1277 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 615 | 851 | 21 | 865 | | | | 2352 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 5 | 191 | | | | 268 |
| B | 63 | 0 | 4 | 444 | | | | 511 |
| C | 3 | 3 | 0 | 7 | | | | 13 |
| D | 365 | 537 | 7 | 0 | | | | 909 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 431 | 613 | 15 | 642 | | | | 1701 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 1 | 33 | | | | 43 |
| B | 12 | 0 | 1 | 75 | | | | 88 |
| C | 1 | 1 | 0 | 1 | | | | 4 |
| D | 82 | 130 | 1 | 0 | | | | 213 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 139 | 4 | 110 | | | | 348 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 1 | 38 | | | | 44 |
| B | 27 | 0 | 1 | 56 | | | | 84 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 61 | 76 | 1 | 0 | | | | 137 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 88 | 82 | 2 | 95 | | | | 267 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.82 | 0 | 17.95 | | | | 35.77 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 2 | 337 | | | | 416 |
| B | 139 | 0 | 5 | 617 | | | | 760 |
| C | 4 | 5 | 0 | 5 | | | | 15 |
| D | 733 | 945 | 11 | 0 | | | | 1689 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 876 | 1027 | 17 | 959 | | | | 2880 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 70 | 2 | 292 | | | | 364 |
| B | 128 | 0 | 4 | 532 | | | | 665 |
| C | 3 | 4 | 0 | 3 | | | | 11 |
| D | 640 | 801 | 9 | 0 | | | | 1450 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 772 | 875 | 15 | 828 | | | | 2490 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 0 | 38 | | | | 43 |
| B | 9 | 0 | 0 | 61 | | | | 71 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 74 | 100 | 1 | 0 | | | | 175 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 83 | 107 | 2 | 100 | | | | 291 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 0 | 7 | | | | 8 |
| B | 1 | 0 | 0 | 8 | | | | 9 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 19 | 26 | 1 | 0 | | | | 46 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 21 | 28 | 1 | 16 | | | | 66 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 17 | 0 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.17 | 0 | 15.62 | | | | 32.79 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1b_2039_AM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 99 | 988 | | | | | 1087 |
| B | 0 | 0 | 1068 | | | | | 1068 |
| C | 1873 | 699 | 0 | | | | | 2572 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1873 | 798 | 2056 | | | | | 4727 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 72 | 745 | | | | | 817 |
| B | 0 | 0 | 769 | | | | | 769 |
| C | 1449 | 533 | 0 | | | | | 1982 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1449 | 604 | 1515 | | | | | 3568 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 104 | | | | | 122 |
| B | 0 | 0 | 220 | | | | | 220 |
| C | 174 | 112 | 0 | | | | | 286 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 174 | 130 | 324 | | | | | 627 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 109 | | | | | 118 |
| B | 0 | 0 | 79 | | | | | 79 |
| C | 220 | 55 | 0 | | | | | 274 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 220 | 64 | 189 | | | | | 472 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 29 | | | | | 29 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 0 | 29 | | | | | 60 |

| Arm | In Ok? | Out OK? | Both | Overall |
|---|---|---|---|---|
| A | | | | |
| B | | | | |
| C | | | | |
| D | | | | |
| E | | | | |
| F | | | | |
| G | | | | |

### Model_2_Heywood_DS1b_2039_IP_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 964 | | | | | 994 |
| B | 0 | 0 | 960 | | | | | 960 |
| C | 1547 | 597 | 0 | | | | | 2144 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1547 | 628 | 1924 | | | | | 4099 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 702 | | | | | 723 |
| B | 0 | 0 | 650 | | | | | 650 |
| C | 1131 | 395 | 0 | | | | | 1526 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1131 | 416 | 1352 | | | | | 2899 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 115 | | | | | 120 |
| B | 0 | 0 | 194 | | | | | 194 |
| C | 209 | 142 | 0 | | | | | 351 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 209 | 147 | 309 | | | | | 665 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 117 | | | | | 122 |
| B | 0 | 0 | 117 | | | | | 117 |
| C | 176 | 60 | 0 | | | | | 235 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 176 | 65 | 234 | | | | | 474 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.59 | 0 | 29.65 | | | | | 61.24 |

### Model_3_Heywood_DS1b_2039_PM_22.1_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 1103 | | | | | 1108 |
| B | 0 | 0 | 1084 | | | | | 1084 |
| C | 1778 | 725 | 0 | | | | | 2503 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1778 | 730 | 2188 | | | | | 4696 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 997 | | | | | 999 |
| B | 0 | 0 | 971 | | | | | 971 |
| C | 1562 | 606 | 0 | | | | | 2168 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1562 | 608 | 1967 | | | | | 4138 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 59 | | | | | 60 |
| B | 0 | 0 | 92 | | | | | 92 |
| C | 141 | 85 | 0 | | | | | 226 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 141 | 87 | 151 | | | | | 378 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 21 | | | | | 22 |
| B | 0 | 0 | 22 | | | | | 22 |
| C | 47 | 34 | 0 | | | | | 81 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 35 | 42 | | | | | 124 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.66 | 0 | 27.19 | | | | | 55.85 |

## Run 22.2 - 2039 Do Something 1 - S.4.2 – Proposed Scheme Quantum without M62 Access - Origin-Destination Matrices

- Policy Off (Non Vision-Led)
- including the Proposed Scheme traffic generation
- excluding the M62 Access solution
- including Common Highway Mitigation Package and J18 DCO works
- Whittle Lane capacity constrained and South Heywood Link Closed

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60057 | 60011 | 4924 | 2718 | C1-M62 WC1-M62 West |
| E | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizab |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 252 | 260 | 486 | 13 | | | 1011 |
| B | 232 | 0 | 143 | 0 | 675 | | | 1050 |
| C | 257 | 287 | 0 | 295 | 108 | | | 947 |
| D | 200 | 0 | 95 | 2 | 346 | | | 643 |
| E | 2 | 505 | 113 | 153 | 0 | | | 773 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 691 | 1044 | 611 | 936 | 1142 | | | 4424 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 167 | 188 | 340 | 12 | | | 707 |
| B | 151 | 0 | 57 | 0 | 341 | | | 549 |
| C | 207 | 211 | 0 | 239 | 68 | | | 725 |
| D | 100 | 0 | 67 | 0 | 184 | | | 351 |
| E | 1 | 231 | 62 | 138 | 0 | | | 432 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 459 | 609 | 374 | 717 | 605 | | | 2764 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 64 | 50 | 1 | | | 177 |
| B | 37 | 0 | 69 | 0 | 88 | | | 194 |
| C | 45 | 28 | 0 | 50 | 18 | | | 141 |
| D | 57 | 0 | 14 | 1 | 30 | | | 102 |
| E | 1 | 51 | 11 | 9 | 0 | | | 72 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 140 | 141 | 158 | 110 | 137 | | | 686 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 8 | 96 | 0 | | | 127 |
| B | 44 | 0 | 17 | 0 | 246 | | | 307 |
| C | 5 | 48 | 0 | 6 | 22 | | | 81 |
| D | 43 | 0 | 14 | 1 | 132 | | | 190 |
| E | 0 | 223 | 40 | 6 | 0 | | | 269 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 92 | 294 | 79 | 109 | 400 | | | 974 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 260 | 266 | 269 | 2 | | | 797 |
| B | 164 | 0 | 127 | 0 | 356 | | | 647 |
| C | 191 | 277 | 0 | 291 | 99 | | | 858 |
| D | 211 | 0 | 106 | 8 | 298 | | | 623 |
| E | 11 | 464 | 103 | 90 | 0 | | | 668 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 577 | 1001 | 602 | 658 | 755 | | | 3593 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 171 | 217 | 145 | 1 | | | 534 |
| B | 88 | 0 | 91 | 0 | 147 | | | 326 |
| C | 142 | 175 | 0 | 173 | 61 | | | 551 |
| D | 87 | 0 | 71 | 0 | 54 | | | 212 |
| E | 5 | 158 | 42 | 24 | 0 | | | 229 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 322 | 504 | 421 | 342 | 263 | | | 1852 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 57 | 35 | 64 | 1 | | | 157 |
| B | 40 | 0 | 26 | 0 | 37 | | | 103 |
| C | 34 | 37 | 0 | 71 | 10 | | | 152 |
| D | 53 | 0 | 29 | 1 | 43 | | | 126 |
| E | 5 | 70 | 14 | 11 | 0 | | | 100 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 132 | 164 | 104 | 147 | 91 | | | 638 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 14 | 60 | 0 | | | 106 |
| B | 36 | 0 | 10 | 0 | 172 | | | 218 |
| C | 15 | 65 | 0 | 47 | 28 | | | 155 |
| D | 71 | 0 | 6 | 7 | 201 | | | 285 |
| E | 1 | 236 | 47 | 55 | 0 | | | 339 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 123 | 333 | 77 | 169 | 401 | | | 1103 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 236 | 298 | 302 | 5 | | | 841 |
| B | 213 | 0 | 157 | 0 | 416 | | | 786 |
| C | 251 | 267 | 0 | 257 | 71 | | | 846 |
| D | 273 | 0 | 210 | 0 | 320 | | | 803 |
| E | 12 | 529 | 111 | 41 | 0 | | | 693 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 749 | 1032 | 776 | 600 | 812 | | | 3969 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 182 | 263 | 267 | 3 | | | 715 |
| B | 154 | 0 | 121 | 0 | 237 | | | 512 |
| C | 229 | 212 | 0 | 191 | 58 | | | 690 |
| D | 209 | 0 | 171 | 0 | 209 | | | 589 |
| E | 11 | 403 | 87 | 31 | 0 | | | 532 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 603 | 797 | 642 | 489 | 507 | | | 3038 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 30 | 18 | 2 | | | 89 |
| B | 35 | 0 | 28 | 0 | 32 | | | 95 |
| C | 20 | 34 | 0 | 40 | 5 | | | 99 |
| D | 36 | 0 | 35 | 0 | 25 | | | 96 |
| E | 1 | 30 | 7 | 2 | 0 | | | 40 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 92 | 103 | 100 | 60 | 64 | | | 419 |

MODELLED — HGV

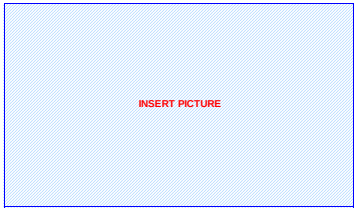
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 5 | 17 | 0 | | | 37 |
| B | 24 | 0 | 8 | 0 | 147 | | | 179 |
| C | 2 | 21 | 0 | 26 | 8 | | | 57 |
| D | 28 | 0 | 4 | 0 | 86 | | | 118 |
| E | 0 | 96 | 17 | 8 | 0 | | | 121 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 54 | 132 | 34 | 51 | 241 | | | 512 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | 045 Manchester Road |
| B | 60003 | 60010 | 60010 | 60003 | 4 Queen Elizabeth Wa |
| C | 2814 | 60010 | 60010 | 2814 | 045 Manchester Road |
| D | 60008 | 60010 | 60010 | 60008 | 4 Queen Elizabeth Wa |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 160 | 261 | 80 | | | | 501 |
| B | 142 | 0 | 176 | 828 | | | | 1146 |
| C | 332 | 91 | 0 | 140 | | | | 563 |
| D | 92 | 524 | 39 | 0 | | | | 654 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 565 | 775 | 476 | 1048 | | | | 2863 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 138 | 184 | 61 | | | | 383 |
| B | 109 | 0 | 139 | 359 | | | | 607 |
| C | 286 | 68 | 0 | 95 | | | | 448 |
| D | 67 | 227 | 31 | 0 | | | | 326 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 462 | 433 | 355 | 514 | | | | 1764 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 54 | 18 | | | | 85 |
| B | 16 | 0 | 33 | 88 | | | | 138 |
| C | 29 | 17 | 0 | 13 | | | | 59 |
| D | 16 | 43 | 6 | 0 | | | | 65 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 62 | 73 | 93 | 120 | | | | 348 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 21 | 1 | | | | 30 |
| B | 16 | 0 | 3 | 381 | | | | 401 |
| C | 17 | 7 | 0 | 32 | | | | 55 |
| D | 8 | 254 | 2 | 0 | | | | 263 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 41 | 269 | 26 | 414 | | | | 749 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 222 | 73 | | | | 335 |
| B | 98 | 0 | 86 | 572 | | | | 755 |
| C | 358 | 129 | 0 | 111 | | | | 598 |
| D | 63 | 499 | 45 | 0 | | | | 608 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 519 | 669 | 353 | 755 | | | | 2296 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 159 | 53 | | | | 235 |
| B | 73 | 0 | 64 | 127 | | | | 264 |
| C | 263 | 79 | 0 | 71 | | | | 413 |
| D | 41 | 128 | 28 | 0 | | | | 197 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 377 | 230 | 251 | 250 | | | | 1109 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 32 | 18 | | | | 56 |
| B | 13 | 0 | 19 | 59 | | | | 91 |
| C | 52 | 23 | 0 | 21 | | | | 96 |
| D | 19 | 70 | 6 | 0 | | | | 95 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 84 | 100 | 57 | 98 | | | | 338 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 30 | 1 | | | | 41 |
| B | 12 | 0 | 2 | 386 | | | | 400 |
| C | 41 | 27 | 0 | 19 | | | | 87 |
| D | 3 | 302 | 11 | 0 | | | | 316 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 339 | 43 | 406 | | | | 845 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 295 | 67 | | | | 399 |
| B | 135 | 0 | 155 | 521 | | | | 812 |
| C | 491 | 223 | 0 | 84 | | | | 798 |
| D | 110 | 435 | 62 | 0 | | | | 607 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 736 | 695 | 513 | 673 | | | | 2616 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 255 | 44 | | | | 323 |
| B | 115 | 0 | 136 | 255 | | | | 506 |
| C | 424 | 202 | 0 | 66 | | | | 692 |
| D | 91 | 307 | 51 | 0 | | | | 449 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 630 | 533 | 443 | 365 | | | | 1971 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 32 | 21 | | | | 56 |
| B | 14 | 0 | 15 | 35 | | | | 64 |
| C | 47 | 20 | 0 | 10 | | | | 78 |
| D | 11 | 17 | 7 | 0 | | | | 35 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 40 | 54 | 66 | | | | 233 |

MODELLED — HGV

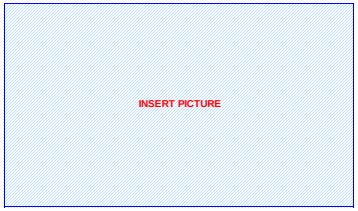
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 6 | 2 | | | | 17 |
| B | 6 | 0 | 4 | 231 | | | | 241 |
| C | 18 | 1 | 0 | 8 | | | | 27 |
| D | 8 | 111 | 3 | 0 | | | | 123 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 121 | 14 | 241 | | | | 408 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.95 | 0 | 1.97 | 0 | | | | 3.92 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Hill Top Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | *Harehills Rd EB* |
| B | 60036 | 60031 | 60031 | 60036 | *Hill Top Road* |
| C | 60230 | 7454 | 7454 | 60230 | *Harehills Rd SB* |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 122 | 507 | 49 | | | | 678 |
| B | 94 | 0 | 11 | 2 | | | | 107 |
| C | 871 | 68 | 0 | 156 | | | | 1095 |
| D | 63 | 0 | 38 | 0 | | | | 101 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1028 | 190 | 556 | 207 | | | | 1981 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 228 | 39 | | | | 327 |
| B | 11 | 0 | 1 | 0 | | | | 12 |
| C | 457 | 42 | 0 | 62 | | | | 561 |
| D | 15 | 0 | 3 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 483 | 102 | 232 | 101 | | | | 918 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 57 | 6 | | | | 72 |
| B | 8 | 0 | 1 | 1 | | | | 10 |
| C | 97 | 5 | 0 | 19 | | | | 121 |
| D | 14 | 0 | 2 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 119 | 14 | 60 | 26 | | | | 219 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 222 | 4 | | | | 279 |
| B | 75 | 0 | 9 | 1 | | | | 85 |
| C | 317 | 21 | 0 | 75 | | | | 413 |
| D | 34 | 0 | 33 | 0 | | | | 67 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 426 | 74 | 264 | 80 | | | | 844 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 467 | 27 | | | | 568 |
| B | 90 | 0 | 45 | 1 | | | | 136 |
| C | 583 | 49 | 0 | 112 | | | | 744 |
| D | 62 | 2 | 88 | 0 | | | | 152 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 735 | 125 | 600 | 140 | | | | 1600 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 165 | 21 | | | | 209 |
| B | 32 | 0 | 12 | 0 | | | | 44 |
| C | 213 | 8 | 0 | 19 | | | | 240 |
| D | 34 | 1 | 14 | 0 | | | | 49 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 279 | 32 | 191 | 40 | | | | 542 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 73 | 5 | | | | 89 |
| B | 15 | 0 | 8 | 1 | | | | 24 |
| C | 67 | 8 | 0 | 22 | | | | 97 |
| D | 17 | 1 | 12 | 0 | | | | 30 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 99 | 20 | 93 | 28 | | | | 240 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 229 | 1 | | | | 270 |
| B | 43 | 0 | 25 | 0 | | | | 68 |
| C | 303 | 33 | 0 | 71 | | | | 407 |
| D | 11 | 0 | 62 | 0 | | | | 73 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 357 | 73 | 316 | 72 | | | | 818 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 542 | 12 | | | | 604 |
| B | 97 | 0 | 51 | 0 | | | | 148 |
| C | 517 | 25 | 0 | 52 | | | | 594 |
| D | 145 | 0 | 54 | 0 | | | | 199 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 759 | 75 | 647 | 64 | | | | 1545 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 421 | 11 | | | | 451 |
| B | 69 | 0 | 31 | 0 | | | | 100 |
| C | 270 | 12 | 0 | 10 | | | | 292 |
| D | 110 | 0 | 32 | 0 | | | | 142 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 449 | 31 | 484 | 21 | | | | 985 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 31 | 1 | | | | 34 |
| B | 4 | 0 | 8 | 0 | | | | 12 |
| C | 56 | 1 | 0 | 4 | | | | 61 |
| D | 12 | 0 | 1 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 3 | 40 | 5 | | | | 120 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 90 | 0 | | | | 119 |
| B | 24 | 0 | 12 | 0 | | | | 36 |
| C | 191 | 12 | 0 | 38 | | | | 241 |
| D | 23 | 0 | 21 | 0 | | | | 44 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 238 | 41 | 123 | 38 | | | | 440 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Pilsworth Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 185 | 443 | | | | | 629 |
| B | 493 | 0 | 235 | | | | | 728 |
| C | 773 | 255 | 0 | | | | | 1028 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1266 | 440 | 678 | | | | | 2385 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 141 | 155 | | | | | 296 |
| B | 363 | 0 | 172 | | | | | 535 |
| C | 304 | 178 | 0 | | | | | 482 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 667 | 319 | 327 | | | | | 1314 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 35 | | | | | 57 |
| B | 51 | 0 | 38 | | | | | 89 |
| C | 73 | 45 | 0 | | | | | 119 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 125 | 67 | 73 | | | | | 264 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 253 | | | | | 276 |
| B | 79 | 0 | 26 | | | | | 105 |
| C | 395 | 31 | 0 | | | | | 427 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 474 | 54 | 279 | | | | | 807 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 307 | 439 | | | | | 746 |
| B | 275 | 0 | 131 | | | | | 406 |
| C | 533 | 202 | 0 | | | | | 735 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 808 | 509 | 570 | | | | | 1887 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 171 | 125 | | | | | 296 |
| B | 165 | 0 | 85 | | | | | 250 |
| C | 152 | 127 | 0 | | | | | 279 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 318 | 298 | 210 | | | | | 825 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 65 | | | | | 108 |
| B | 39 | 0 | 24 | | | | | 63 |
| C | 61 | 38 | 0 | | | | | 99 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 100 | 81 | 89 | | | | | 270 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 93 | 249 | | | | | 342 |
| B | 71 | 0 | 22 | | | | | 93 |
| C | 320 | 37 | 0 | | | | | 357 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 391 | 130 | 271 | | | | | 792 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 376 | 448 | | | | | 824 |
| B | 252 | 0 | 156 | | | | | 408 |
| C | 496 | 264 | 0 | | | | | 760 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 747 | 640 | 604 | | | | | 1991 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 316 | 324 | | | | | 640 |
| B | 200 | 0 | 127 | | | | | 328 |
| C | 225 | 224 | 0 | | | | | 450 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 426 | 541 | 451 | | | | | 1418 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 15 | | | | | 41 |
| B | 12 | 0 | 19 | | | | | 31 |
| C | 43 | 29 | 0 | | | | | 72 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 55 | 55 | 34 | | | | | 143 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 109 | | | | | 143 |
| B | 39 | 0 | 10 | | | | | 50 |
| C | 228 | 10 | 0 | | | | | 238 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 267 | 44 | 119 | | | | | 431 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / A58 Bury St

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 514 | 162 | | | | | 677 |
| B | 605 | 0 | 465 | | | | | 1069 |
| C | 212 | 309 | 0 | | | | | 521 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 817 | 824 | 627 | | | | | 2267 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 330 | 134 | | | | | 465 |
| B | 390 | 0 | 332 | | | | | 723 |
| C | 160 | 251 | 0 | | | | | 411 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 550 | 581 | 466 | | | | | 1598 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 98 | 20 | | | | | 118 |
| B | 122 | 0 | 46 | | | | | 168 |
| C | 40 | 25 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 162 | 123 | 66 | | | | | 351 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 8 | | | | | 84 |
| B | 82 | 0 | 67 | | | | | 149 |
| C | 12 | 16 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 92 | 75 | | | | | 261 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 29 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 28 | 20 | | | | | 57 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 513 | 134 | | | | | 647 |
| B | 490 | 0 | 310 | | | | | 800 |
| C | 140 | 353 | 0 | | | | | 493 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 630 | 866 | 444 | | | | | 1940 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 369 | 107 | | | | | 476 |
| B | 334 | 0 | 196 | | | | | 530 |
| C | 108 | 203 | 0 | | | | | 311 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 442 | 572 | 302 | | | | | 1316 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 85 | 17 | | | | | 102 |
| B | 87 | 0 | 40 | | | | | 127 |
| C | 21 | 36 | 0 | | | | | 56 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 108 | 120 | 57 | | | | | 285 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 49 | 10 | | | | | 59 |
| B | 59 | 0 | 54 | | | | | 113 |
| C | 11 | 97 | 0 | | | | | 108 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 70 | 146 | 64 | | | | | 281 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.89 | 27.86 | 19.79 | | | | | 57.54 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 527 | 112 | | | | | 638 |
| B | 549 | 0 | 338 | | | | | 886 |
| C | 205 | 310 | 0 | | | | | 515 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 754 | 836 | 449 | | | | | 2039 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 467 | 97 | | | | | 564 |
| B | 471 | 0 | 271 | | | | | 742 |
| C | 181 | 263 | 0 | | | | | 445 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 653 | 730 | 368 | | | | | 1751 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 12 | | | | | 55 |
| B | 55 | 0 | 30 | | | | | 85 |
| C | 19 | 24 | 0 | | | | | 43 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 67 | 41 | | | | | 183 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 3 | | | | | 11 |
| B | 14 | 0 | 18 | | | | | 32 |
| C | 5 | 5 | 0 | | | | | 9 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 13 | 21 | | | | | 52 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 20 | | | | | 27 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.82 | 25.73 | 19.56 | | | | | 53.11 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / Heywood Distribution Centre

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | Pilsworth Rd NB |
| B | 20430 | 7459 | 7459 | 20430 | ywood Distribution Cer |
| C | 2813 | 7459 | 7459 | 2813 | Pilsworth Rd SB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 199 | 468 | | | | | 666 |
| B | 168 | 0 | 161 | | | | | 330 |
| C | 933 | 333 | 0 | | | | | 1266 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1101 | 532 | 629 | | | | | 2262 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 142 | 259 | | | | | 401 |
| B | 35 | 0 | 38 | | | | | 73 |
| C | 510 | 157 | 0 | | | | | 667 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 545 | 299 | 296 | | | | | 1141 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 38 | | | | | 51 |
| B | 28 | 0 | 19 | | | | | 47 |
| C | 92 | 32 | 0 | | | | | 125 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 45 | 57 | | | | | 223 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 171 | | | | | 215 |
| B | 105 | 0 | 105 | | | | | 210 |
| C | 330 | 144 | 0 | | | | | 474 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 435 | 188 | 276 | | | | | 899 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 111 | 559 | | | | | 670 |
| B | 228 | 0 | 187 | | | | | 414 |
| C | 525 | 283 | 0 | | | | | 808 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 753 | 394 | 746 | | | | | 1893 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 219 | | | | | 277 |
| B | 96 | 0 | 77 | | | | | 173 |
| C | 238 | 79 | 0 | | | | | 318 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 334 | 138 | 296 | | | | | 768 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 80 | | | | | 103 |
| B | 35 | 0 | 27 | | | | | 62 |
| C | 65 | 35 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 100 | 57 | 108 | | | | | 265 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 260 | | | | | 290 |
| B | 97 | 0 | 82 | | | | | 179 |
| C | 222 | 169 | 0 | | | | | 391 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 319 | 200 | 342 | | | | | 860 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 49 | 681 | | | | | 731 |
| B | 215 | 0 | 142 | | | | | 358 |
| C | 583 | 164 | 0 | | | | | 747 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 799 | 213 | 824 | | | | | 1836 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 534 | | | | | 563 |
| B | 168 | 0 | 106 | | | | | 274 |
| C | 369 | 56 | 0 | | | | | 426 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 538 | 85 | 640 | | | | | 1263 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 35 | | | | | 39 |
| B | 15 | 0 | 6 | | | | | 21 |
| C | 41 | 14 | 0 | | | | | 55 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 18 | 41 | | | | | 114 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 112 | | | | | 129 |
| B | 32 | 0 | 30 | | | | | 63 |
| C | 173 | 94 | 0 | | | | | 267 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 206 | 110 | 143 | | | | | 459 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / JPA1.1 & SHDA employment

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | *Pilsworth Rd SB* |
| B | 60027 | 60229 | 60229 | 60027 | *SHDA* |
| C | 60024 | 60229 | 60229 | 60024 | *Pilsworth Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 1081 | | | | | 1101 |
| B | 12 | 0 | 17 | | | | | 29 |
| C | 655 | 31 | 0 | | | | | 685 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 666 | 51 | 1098 | | | | | 1815 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 537 | | | | | 545 |
| B | 3 | 0 | 4 | | | | | 7 |
| C | 398 | 13 | 0 | | | | | 411 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 401 | 22 | 541 | | | | | 964 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 118 | | | | | 121 |
| B | 1 | 0 | 2 | | | | | 4 |
| C | 50 | 3 | 0 | | | | | 53 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 51 | 6 | 120 | | | | | 177 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 426 | | | | | 435 |
| B | 8 | 0 | 10 | | | | | 18 |
| C | 207 | 14 | 0 | | | | | 221 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 215 | 23 | 436 | | | | | 674 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 740 | | | | | 753 |
| B | 17 | 0 | 26 | | | | | 42 |
| C | 654 | 26 | 0 | | | | | 680 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 670 | 39 | 766 | | | | | 1475 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 329 | | | | | 334 |
| B | 5 | 0 | 8 | | | | | 13 |
| C | 273 | 7 | 0 | | | | | 279 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 277 | 12 | 338 | | | | | 627 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 98 | | | | | 100 |
| B | 3 | 0 | 5 | | | | | 8 |
| C | 100 | 5 | 0 | | | | | 105 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 103 | 7 | 102 | | | | | 212 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 313 | | | | | 319 |
| B | 9 | 0 | 13 | | | | | 22 |
| C | 281 | 15 | 0 | | | | | 296 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 290 | 20 | 325 | | | | | 636 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 792 | | | | | 799 |
| B | 15 | 0 | 27 | | | | | 42 |
| C | 716 | 12 | 0 | | | | | 728 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 731 | 19 | 819 | | | | | 1569 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 536 | | | | | 538 |
| B | 8 | 0 | 18 | | | | | 26 |
| C | 555 | 4 | 0 | | | | | 559 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 563 | 6 | 554 | | | | | 1123 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 55 | | | | | 56 |
| B | 1 | 0 | 2 | | | | | 3 |
| C | 38 | 1 | 0 | | | | | 39 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 39 | 1 | 57 | | | | | 97 |

HGV

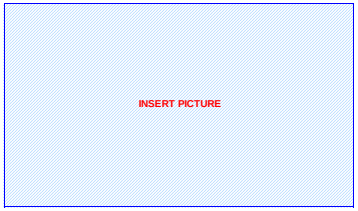
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 201 | | | | | 206 |
| B | 6 | 0 | 7 | | | | | 13 |
| C | 123 | 8 | 0 | | | | | 131 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 129 | 12 | 208 | | | | | 349 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** 3 Arrows (Pilsworth Road / Moss Hall Road - South)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 60241 | 2037 | 2037 | 60241 | *Link Road* |
| D | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 465 | 621 | 12 | | | | 1098 |
| B | 147 | 0 | 396 | 1 | | | | 544 |
| C | 536 | 663 | 0 | 18 | | | | 1216 |
| D | 3 | 1 | 14 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 685 | 1128 | 1031 | 31 | | | | 2876 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 217 | 318 | 6 | | | | 541 |
| B | 17 | 0 | 153 | 1 | | | | 171 |
| C | 394 | 413 | 0 | 5 | | | | 812 |
| D | 1 | 1 | 1 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 411 | 631 | 472 | 13 | | | | 1527 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 85 | 2 | | | | 120 |
| B | 12 | 0 | 58 | 0 | | | | 70 |
| C | 41 | 80 | 0 | 5 | | | | 125 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 113 | 144 | 6 | | | | 316 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 215 | 217 | 4 | | | | 436 |
| B | 118 | 0 | 185 | 0 | | | | 303 |
| C | 101 | 170 | 0 | 8 | | | | 279 |
| D | 2 | 0 | 13 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 221 | 384 | 415 | 13 | | | | 1033 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 267 | 494 | 5 | | | | 766 |
| B | 285 | 0 | 526 | 1 | | | | 812 |
| C | 383 | 441 | 0 | 23 | | | | 847 |
| D | 12 | 1 | 18 | 0 | | | | 31 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 680 | 709 | 1038 | 28 | | | | 2455 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 257 | 3 | | | | 338 |
| B | 83 | 0 | 255 | 0 | | | | 339 |
| C | 193 | 184 | 0 | 2 | | | | 380 |
| D | 3 | 1 | 5 | 0 | | | | 8 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 279 | 263 | 517 | 5 | | | | 1064 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 67 | 2 | | | | 102 |
| B | 36 | 0 | 82 | 0 | | | | 118 |
| C | 67 | 68 | 0 | 2 | | | | 136 |
| D | 2 | 0 | 1 | 0 | | | | 4 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 105 | 102 | 150 | 4 | | | | 361 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 155 | 170 | 0 | | | | 325 |
| B | 166 | 0 | 190 | 0 | | | | 356 |
| C | 123 | 189 | 0 | 19 | | | | 331 |
| D | 7 | 0 | 12 | 0 | | | | 19 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 296 | 344 | 372 | 19 | | | | 1030 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 138 | 667 | 14 | | | | 819 |
| B | 214 | 0 | 759 | 3 | | | | 976 |
| C | 508 | 217 | 0 | 17 | | | | 742 |
| D | 6 | 0 | 12 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 728 | 355 | 1438 | 34 | | | | 2556 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 509 | 8 | | | | 554 |
| B | 126 | 0 | 590 | 3 | | | | 719 |
| C | 429 | 109 | 0 | 11 | | | | 549 |
| D | 4 | 0 | 8 | 0 | | | | 13 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 559 | 146 | 1107 | 22 | | | | 1835 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 50 | 0 | | | | 57 |
| B | 6 | 0 | 53 | 0 | | | | 58 |
| C | 31 | 17 | 0 | 1 | | | | 50 |
| D | 2 | 0 | 2 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 39 | 24 | 105 | 1 | | | | 169 |

MODELLED — HGV

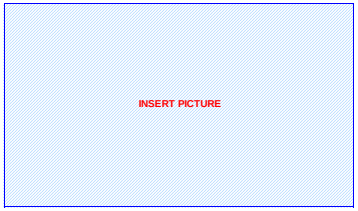
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 95 | 108 | 5 | | | | 208 |
| B | 82 | 0 | 116 | 0 | | | | 199 |
| C | 48 | 90 | 0 | 5 | | | | 143 |
| D | 0 | 0 | 2 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 131 | 185 | 226 | 11 | | | | 552 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Fowler Welch (Pilsworth Road / Moss Hall Road - North)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60241 | 60246 | 60246 | 60241 | *Moss Hall Rd NB* |
| B | 60000 | 60213 | 60213 | 60000 | *Pilsworth Road* |
| C | 60228 | 2038 | 2038 | 60228 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 863 | 168 | | | | | 1031 |
| B | 1017 | 0 | 82 | | | | | 1099 |
| C | 200 | 143 | 0 | | | | | 343 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1217 | 1006 | 250 | | | | | 2473 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 425 | 47 | | | | | 472 |
| B | 703 | 0 | 52 | | | | | 755 |
| C | 109 | 116 | 0 | | | | | 225 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 812 | 541 | 99 | | | | | 1452 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 101 | 43 | | | | | 144 |
| B | 76 | 0 | 16 | | | | | 92 |
| C | 49 | 19 | 0 | | | | | 68 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 125 | 120 | 59 | | | | | 304 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 337 | 78 | | | | | 415 |
| B | 238 | 0 | 14 | | | | | 252 |
| C | 42 | 8 | 0 | | | | | 50 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 280 | 345 | 92 | | | | | 717 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 760 | 278 | | | | | 1038 |
| B | 782 | 0 | 106 | | | | | 888 |
| C | 64 | 105 | 0 | | | | | 169 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 846 | 865 | 384 | | | | | 2095 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 340 | 177 | | | | | 517 |
| B | 368 | 0 | 84 | | | | | 452 |
| C | 11 | 84 | 0 | | | | | 95 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 379 | 424 | 261 | | | | | 1064 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 104 | 46 | | | | | 150 |
| B | 110 | 0 | 15 | | | | | 125 |
| C | 26 | 16 | 0 | | | | | 42 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 136 | 120 | 61 | | | | | 317 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 316 | 55 | | | | | 371 |
| B | 304 | 0 | 7 | | | | | 311 |
| C | 27 | 5 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 331 | 321 | 62 | | | | | 714 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1018 | 420 | | | | | 1438 |
| B | 710 | 0 | 211 | | | | | 921 |
| C | 31 | 132 | 0 | | | | | 163 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 741 | 1150 | 631 | | | | | 2522 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 752 | 356 | | | | | 1108 |
| B | 539 | 0 | 185 | | | | | 724 |
| C | 9 | 118 | 0 | | | | | 127 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 548 | 870 | 541 | | | | | 1959 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 31 | | | | | 104 |
| B | 41 | 0 | 24 | | | | | 65 |
| C | 9 | 13 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 86 | 55 | | | | | 191 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 193 | 33 | | | | | 226 |
| B | 130 | 0 | 2 | | | | | 132 |
| C | 13 | 1 | 0 | | | | | 14 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 143 | 194 | 35 | | | | | 372 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | TC 11 - Pilsworth Rd E |
| B | 3001 | 60238 | 60239 | 3000 | JTC 11 - M66 SB Off |
| C | 60213 | 60000 | 60000 | 60213 | TC 11 - Pilsworth Rd W |
| D | 60236 | 4918 | 60240 | 2998 | JTC 11 - M66 NB Off |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 381 | 423 | 221 | | | | 1025 |
| B | 437 | 0 | 278 | 0 | | | | 715 |
| C | 302 | 214 | 0 | 491 | | | | 1007 |
| D | 758 | 0 | 396 | 0 | | | | 1154 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1497 | 595 | 1097 | 712 | | | | 3901 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 263 | 328 | 145 | | | | 736 |
| B | 348 | 0 | 257 | 0 | | | | 605 |
| C | 225 | 157 | 0 | 159 | | | | 541 |
| D | 632 | 0 | 169 | 0 | | | | 801 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1205 | 420 | 754 | 304 | | | | 2683 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 64 | 43 | 58 | | | | 165 |
| B | 55 | 0 | 9 | 0 | | | | 64 |
| C | 45 | 27 | 0 | 49 | | | | 121 |
| D | 71 | 0 | 40 | 0 | | | | 111 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 171 | 91 | 92 | 107 | | | | 461 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 52 | 18 | | | | 124 |
| B | 34 | 0 | 12 | 0 | | | | 46 |
| C | 32 | 30 | 0 | 283 | | | | 345 |
| D | 55 | 0 | 187 | 0 | | | | 242 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 121 | 84 | 251 | 301 | | | | 757 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 442 | 381 | 215 | | | | 1038 |
| B | 339 | 0 | 165 | 0 | | | | 504 |
| C | 245 | 89 | 0 | 530 | | | | 864 |
| D | 406 | 0 | 342 | 0 | | | | 748 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 990 | 531 | 888 | 745 | | | | 3154 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 332 | 238 | 189 | | | | 759 |
| B | 251 | 0 | 135 | 0 | | | | 386 |
| C | 185 | 51 | 0 | 187 | | | | 423 |
| D | 290 | 0 | 79 | 0 | | | | 369 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 726 | 383 | 452 | 376 | | | | 1937 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 62 | 56 | 21 | | | | 139 |
| B | 46 | 0 | 13 | 0 | | | | 59 |
| C | 31 | 14 | 0 | 74 | | | | 119 |
| D | 58 | 0 | 56 | 0 | | | | 114 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 135 | 76 | 125 | 95 | | | | 431 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 87 | 5 | | | | 140 |
| B | 42 | 0 | 17 | 0 | | | | 59 |
| C | 29 | 24 | 0 | 269 | | | | 322 |
| D | 58 | 0 | 207 | 0 | | | | 265 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 129 | 72 | 311 | 274 | | | | 786 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 501 | 476 | 197 | | | | 1174 |
| B | 304 | 0 | 149 | 0 | | | | 453 |
| C | 347 | 157 | 0 | 646 | | | | 1150 |
| D | 528 | 0 | 294 | 0 | | | | 822 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1179 | 658 | 919 | 843 | | | | 3599 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 456 | 429 | 175 | | | | 1060 |
| B | 266 | 0 | 131 | 0 | | | | 397 |
| C | 298 | 133 | 0 | 438 | | | | 869 |
| D | 401 | 0 | 163 | 0 | | | | 564 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 965 | 589 | 723 | 613 | | | | 2890 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 28 | 20 | | | | 77 |
| B | 29 | 0 | 6 | 0 | | | | 35 |
| C | 26 | 22 | 0 | 39 | | | | 87 |
| D | 63 | 0 | 30 | 0 | | | | 93 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 118 | 51 | 64 | 59 | | | | 292 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 19 | 2 | | | | 37 |
| B | 9 | 0 | 12 | 0 | | | | 21 |
| C | 23 | 2 | 0 | 169 | | | | 194 |
| D | 64 | 0 | 101 | 0 | | | | 165 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 18 | 132 | 171 | | | | 417 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N12 - M66 NB Of |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 149 | 109 | 310 | 1423 | 53 | | 2044 |
| B | 288 | 0 | 25 | 222 | 0 | 37 | | 572 |
| C | 63 | 3 | 0 | 9 | 22 | 0 | | 97 |
| D | 658 | 217 | 27 | 0 | 285 | 77 | | 1264 |
| E | 1475 | 0 | 67 | 219 | 0 | 104 | | 1865 |
| F | 35 | 5 | 1 | 34 | 39 | 0 | | 114 |
| G | | | | | | | | |
| TOTAL | 2519 | 374 | 229 | 794 | 1769 | 271 | | 5956 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 113 | 45 | 216 | 1107 | 49 | | 1530 |
| B | 266 | 0 | 23 | 154 | 0 | 31 | | 474 |
| C | 11 | 1 | 0 | 3 | 8 | 0 | | 23 |
| D | 548 | 138 | 23 | 0 | 183 | 44 | | 936 |
| E | 1108 | 0 | 51 | 126 | 0 | 95 | | 1380 |
| F | 28 | 3 | 1 | 19 | 29 | 0 | | 80 |
| G | | | | | | | | |
| TOTAL | 1961 | 255 | 143 | 518 | 1327 | 219 | | 4423 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 32 | 59 | 200 | 3 | | 324 |
| B | 17 | 0 | 2 | 43 | 0 | 1 | | 63 |
| C | 37 | 2 | 0 | 5 | 9 | 0 | | 53 |
| D | 53 | 43 | 3 | 0 | 53 | 12 | | 164 |
| E | 175 | 0 | 8 | 66 | 0 | 6 | | 255 |
| F | 2 | 1 | 0 | 5 | 5 | 0 | | 13 |
| G | | | | | | | | |
| TOTAL | 284 | 76 | 45 | 178 | 267 | 22 | | 872 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 32 | 35 | 116 | 1 | | 190 |
| B | 5 | 0 | 0 | 25 | 0 | 5 | | 35 |
| C | 15 | 0 | 0 | 1 | 5 | 0 | | 21 |
| D | 57 | 36 | 1 | 0 | 49 | 21 | | 164 |
| E | 192 | 0 | 8 | 27 | 0 | 3 | | 230 |
| F | 5 | 1 | 0 | 10 | 5 | 0 | | 21 |
| G | | | | | | | | |
| TOTAL | 274 | 43 | 41 | 98 | 175 | 30 | | 661 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 165 | 113 | 262 | 1345 | 32 | | 1917 |
| B | 211 | 0 | 22 | 179 | 0 | 12 | | 424 |
| C | 83 | 13 | 0 | 14 | 36 | 1 | | 147 |
| D | 486 | 157 | 32 | 0 | 137 | 61 | | 873 |
| E | 1272 | 0 | 51 | 218 | 0 | 48 | | 1589 |
| F | 47 | 14 | 2 | 39 | 53 | 0 | | 155 |
| G | | | | | | | | |
| TOTAL | 2099 | 349 | 220 | 712 | 1571 | 154 | | 5105 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 119 | 56 | 181 | 985 | 27 | | 1368 |
| B | 172 | 0 | 17 | 118 | 0 | 9 | | 316 |
| C | 29 | 8 | 0 | 9 | 24 | 1 | | 71 |
| D | 366 | 98 | 23 | 0 | 57 | 29 | | 573 |
| E | 905 | 0 | 39 | 133 | 0 | 36 | | 1113 |
| F | 42 | 11 | 2 | 23 | 40 | 0 | | 118 |
| G | | | | | | | | |
| TOTAL | 1514 | 236 | 137 | 464 | 1106 | 102 | | 3559 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 38 | 44 | 204 | 3 | | 314 |
| B | 22 | 0 | 3 | 27 | 0 | 1 | | 53 |
| C | 44 | 3 | 0 | 4 | 7 | 0 | | 58 |
| D | 67 | 34 | 6 | 0 | 30 | 13 | | 150 |
| E | 213 | 0 | 8 | 47 | 0 | 5 | | 273 |
| F | 4 | 2 | 0 | 9 | 5 | 0 | | 20 |
| G | | | | | | | | |
| TOTAL | 350 | 64 | 55 | 131 | 246 | 22 | | 868 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 19 | 37 | 156 | 2 | | 235 |
| B | 17 | 0 | 2 | 34 | 0 | 2 | | 55 |
| C | 10 | 2 | 0 | 1 | 5 | 0 | | 18 |
| D | 53 | 25 | 3 | 0 | 50 | 19 | | 150 |
| E | 154 | 0 | 4 | 38 | 0 | 7 | | 203 |
| F | 1 | 1 | 0 | 7 | 8 | 0 | | 17 |
| G | | | | | | | | |
| TOTAL | 235 | 49 | 28 | 117 | 219 | 30 | | 678 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 266 | 35 | 390 | 1411 | 42 | | 2144 |
| B | 288 | 0 | 6 | 153 | 0 | 14 | | 461 |
| C | 53 | 13 | 0 | 18 | 49 | 1 | | 134 |
| D | 660 | 167 | 14 | 0 | 197 | 68 | | 1106 |
| E | 1446 | 0 | 19 | 279 | 0 | 57 | | 1801 |
| F | 45 | 20 | 0 | 52 | 118 | 0 | | 235 |
| G | | | | | | | | |
| TOTAL | 2492 | 466 | 74 | 892 | 1775 | 182 | | 5881 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 251 | 18 | 352 | 1290 | 40 | | 1951 |
| B | 267 | 0 | 5 | 134 | 0 | 13 | | 419 |
| C | 24 | 12 | 0 | 16 | 46 | 1 | | 99 |
| D | 580 | 148 | 12 | 0 | 152 | 57 | | 949 |
| E | 1271 | 0 | 15 | 233 | 0 | 44 | | 1563 |
| F | 41 | 19 | 0 | 47 | 110 | 0 | | 217 |
| G | | | | | | | | |
| TOTAL | 2183 | 430 | 50 | 782 | 1598 | 155 | | 5198 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 15 | 24 | 95 | 2 | | 150 |
| B | 18 | 0 | 1 | 17 | 0 | 1 | | 37 |
| C | 25 | 1 | 0 | 2 | 3 | 0 | | 31 |
| D | 48 | 16 | 2 | 0 | 24 | 10 | | 100 |
| E | 133 | 0 | 4 | 31 | 0 | 6 | | 174 |
| F | 3 | 1 | 0 | 4 | 2 | 0 | | 10 |
| G | | | | | | | | |
| TOTAL | 227 | 32 | 22 | 78 | 124 | 19 | | 502 |

HGV

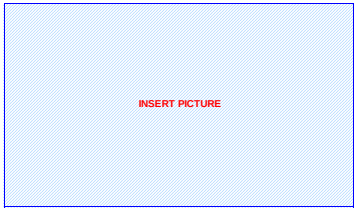
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 14 | 26 | 0 | | 43 |
| B | 3 | 0 | 0 | 2 | 0 | 0 | | 5 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 32 | 3 | 0 | 0 | 21 | 1 | | 57 |
| E | 42 | 0 | 0 | 15 | 0 | 7 | | 64 |
| F | 1 | 0 | 0 | 1 | 6 | 0 | | 8 |
| G | | | | | | | | |
| TOTAL | 82 | 4 | 2 | 32 | 53 | 8 | | 181 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | *Heywood Old Road NB* |
| B | 60074 | 2478 | 2478 | 60074 | *Whittle Lane* |
| C | 4730 | 2478 | 2478 | 4730 | *Heywood Old Road SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 108 | 386 | | | | | 494 |
| B | 8 | 0 | 73 | | | | | 81 |
| C | 546 | 254 | 0 | | | | | 800 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 554 | 362 | 459 | | | | | 1375 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 97 | 296 | | | | | 393 |
| B | 5 | 0 | 51 | | | | | 56 |
| C | 421 | 220 | 0 | | | | | 641 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 426 | 317 | 347 | | | | | 1089 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 11 | 42 | | | | | 53 |
| B | 3 | 0 | 22 | | | | | 25 |
| C | 101 | 34 | 0 | | | | | 135 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 45 | 64 | | | | | 213 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 47 | | | | | 47 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 0 | 47 | | | | | 71 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 513 | | | | | 557 |
| B | 38 | 0 | 155 | | | | | 193 |
| C | 308 | 109 | 0 | | | | | 417 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 346 | 153 | 668 | | | | | 1167 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 347 | | | | | 367 |
| B | 26 | 0 | 116 | | | | | 142 |
| C | 233 | 70 | 0 | | | | | 303 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 259 | 90 | 463 | | | | | 812 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 79 | | | | | 103 |
| B | 12 | 0 | 39 | | | | | 51 |
| C | 37 | 39 | 0 | | | | | 77 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 63 | 118 | | | | | 230 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 85 | | | | | 85 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 38 | 0 | 0 | | | | | 38 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 0 | 85 | | | | | 123 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.98 | | | | | 1.98 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED — All Vehicle — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 767 | | | | | 785 |
| B | 48 | 0 | 213 | | | | | 261 |
| C | 394 | 116 | 0 | | | | | 509 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 442 | 134 | 979 | | | | | 1555 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 653 | | | | | 669 |
| B | 45 | 0 | 198 | | | | | 243 |
| C | 346 | 103 | 0 | | | | | 449 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 391 | 119 | 851 | | | | | 1361 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 88 | | | | | 90 |
| B | 3 | 0 | 15 | | | | | 18 |
| C | 39 | 13 | 0 | | | | | 51 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 42 | 15 | 102 | | | | | 160 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 24 | | | | | 24 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 9 | 0 | 0 | | | | | 9 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 9 | 0 | 24 | | | | | 33 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.92 | | | | | 1.92 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A6045 Heywood Old Road / Langley Lane**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | *Heywood Old Road SB* |
| B | 15238 | 4730 | 4730 | 15238 | *Langley Lane* |
| C | 2478 | 4730 | 4730 | 2478 | *Heywood Old Road NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 88 | 408 | | | | | 496 |
| B | 101 | 0 | 393 | | | | | 494 |
| C | 337 | 122 | 0 | | | | | 459 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 438 | 210 | 800 | | | | | 1449 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 306 | | | | | 380 |
| B | 92 | 0 | 334 | | | | | 427 |
| C | 248 | 99 | 0 | | | | | 347 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 340 | 173 | 641 | | | | | 1154 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 85 | | | | | 91 |
| B | 5 | 0 | 50 | | | | | 55 |
| C | 43 | 21 | 0 | | | | | 64 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 48 | 27 | 135 | | | | | 211 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 16 | | | | | 22 |
| B | 4 | 0 | 8 | | | | | 12 |
| C | 46 | 0 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 6 | 24 | | | | | 80 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 248 | | | | | 293 |
| B | 71 | 0 | 169 | | | | | 241 |
| C | 474 | 194 | 0 | | | | | 668 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 545 | 239 | 417 | | | | | 1202 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 168 | | | | | 206 |
| B | 58 | 0 | 135 | | | | | 193 |
| C | 314 | 149 | 0 | | | | | 463 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 372 | 187 | 303 | | | | | 862 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 43 | | | | | 47 |
| B | 6 | 0 | 34 | | | | | 40 |
| C | 81 | 36 | 0 | | | | | 118 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 88 | 41 | 77 | | | | | 205 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 37 | | | | | 38 |
| B | 5 | 0 | 0 | | | | | 5 |
| C | 78 | 7 | 0 | | | | | 85 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 83 | 8 | 38 | | | | | 129 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.98 | 0 | | | | | 5.98 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 278 | | | | | 355 |
| B | 75 | 0 | 231 | | | | | 306 |
| C | 669 | 310 | 0 | | | | | 979 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 744 | 386 | 509 | | | | | 1640 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 65 | 240 | | | | | 305 |
| B | 68 | 0 | 209 | | | | | 277 |
| C | 580 | 272 | 0 | | | | | 851 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 648 | 336 | 449 | | | | | 1433 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 30 | | | | | 39 |
| B | 4 | 0 | 21 | | | | | 25 |
| C | 67 | 36 | 0 | | | | | 102 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 71 | 44 | 51 | | | | | 166 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 8 | | | | | 9 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 23 | 1 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 2 | 9 | | | | | 34 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 3.9 | 0 | | | | | 5.88 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Langley Lane / A6046 Hollin Lane

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 171 | 877 | | | | | 1048 |
| B | 104 | 0 | 76 | | | | | 180 |
| C | 653 | 8 | 0 | | | | | 662 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 757 | 179 | 953 | | | | | 1890 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 114 | 640 | | | | | 753 |
| B | 77 | 0 | 73 | | | | | 150 |
| C | 384 | 8 | 0 | | | | | 391 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 460 | 122 | 713 | | | | | 1294 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 49 | 139 | | | | | 189 |
| B | 23 | 0 | 2 | | | | | 24 |
| C | 161 | 1 | 0 | | | | | 162 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 184 | 50 | 141 | | | | | 375 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 79 | | | | | 87 |
| B | 1 | 0 | 1 | | | | | 2 |
| C | 79 | 0 | 0 | | | | | 79 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 80 | 8 | 80 | | | | | 167 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 20 | | | | | 20 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 0 | 20 | | | | | 53 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 96 | 879 | | | | | 976 |
| B | 109 | 0 | 7 | | | | | 116 |
| C | 617 | 16 | 0 | | | | | 633 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 726 | 112 | 887 | | | | | 1724 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 549 | | | | | 607 |
| B | 66 | 0 | 7 | | | | | 72 |
| C | 411 | 16 | 0 | | | | | 426 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 476 | 74 | 555 | | | | | 1105 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 155 | | | | | 190 |
| B | 34 | 0 | 0 | | | | | 35 |
| C | 105 | 0 | 0 | | | | | 106 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 140 | 36 | 155 | | | | | 330 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 156 | | | | | 157 |
| B | 5 | 0 | 0 | | | | | 5 |
| C | 77 | 0 | 0 | | | | | 77 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 82 | 1 | 156 | | | | | 239 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.74 | 1.99 | 19.91 | | | | | 49.64 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 169 | 876 | | | | | 1045 |
| B | 103 | 0 | 11 | | | | | 114 |
| C | 743 | 52 | 0 | | | | | 794 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 846 | 221 | 887 | | | | | 1953 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 146 | 691 | | | | | 837 |
| B | 71 | 0 | 11 | | | | | 82 |
| C | 586 | 51 | 0 | | | | | 637 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 657 | 197 | 701 | | | | | 1555 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 101 | | | | | 121 |
| B | 27 | 0 | 0 | | | | | 27 |
| C | 100 | 1 | 0 | | | | | 100 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 127 | 21 | 101 | | | | | 249 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 57 | | | | | 57 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 33 | 0 | 0 | | | | | 34 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 0 | 57 | | | | | 92 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 27 | | | | | 29 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 23 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.34 | 1.95 | 27.37 | | | | | 56.66 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Coronation Avenue

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 126 | 322 | | | | | 448 |
| B | 403 | 0 | 34 | | | | | 437 |
| C | 483 | 171 | 0 | | | | | 654 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 885 | 297 | 356 | | | | | 1538 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 231 | | | | | 231 |
| B | 267 | 0 | 21 | | | | | 288 |
| C | 424 | 127 | 0 | | | | | 551 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 691 | 127 | 252 | | | | | 1070 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 68 | | | | | 68 |
| B | 43 | 0 | 11 | | | | | 54 |
| C | 34 | 38 | 0 | | | | | 72 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 77 | 38 | 78 | | | | | 193 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 96 | 20 | | | | | 116 |
| B | 73 | 0 | 3 | | | | | 76 |
| C | 24 | 6 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 98 | 103 | 22 | | | | | 223 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 4 | | | | | 33 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 20 | 29 | 4 | | | | | 53 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 101 | 280 | | | | | 381 |
| B | 221 | 0 | 63 | | | | | 283 |
| C | 420 | 118 | 0 | | | | | 538 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 641 | 219 | 342 | | | | | 1202 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 188 | | | | | 188 |
| B | 78 | 0 | 11 | | | | | 89 |
| C | 285 | 75 | 0 | | | | | 359 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 363 | 75 | 199 | | | | | 637 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 52 | | | | | 52 |
| B | 13 | 0 | 43 | | | | | 56 |
| C | 92 | 31 | 0 | | | | | 123 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 105 | 31 | 94 | | | | | 230 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 77 | 35 | | | | | 112 |
| B | 110 | 0 | 9 | | | | | 118 |
| C | 41 | 13 | 0 | | | | | 54 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 151 | 90 | 43 | | | | | 284 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.84 | 23.82 | 5.95 | | | | | 51.61 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 357 | | | | | 409 |
| B | 396 | 0 | 21 | | | | | 417 |
| C | 546 | 99 | 0 | | | | | 644 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 942 | 151 | 377 | | | | | 1470 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 292 | | | | | 292 |
| B | 297 | 0 | 5 | | | | | 302 |
| C | 466 | 83 | 0 | | | | | 550 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 763 | 83 | 297 | | | | | 1143 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 41 | | | | | 41 |
| B | 37 | 0 | 15 | | | | | 52 |
| C | 50 | 14 | 0 | | | | | 64 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 88 | 14 | 55 | | | | | 157 |

MODELLED — HGV

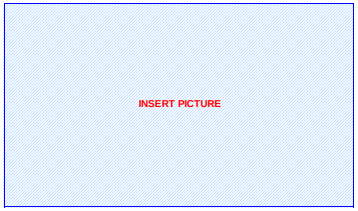
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 20 | | | | | 49 |
| B | 34 | 0 | 1 | | | | | 36 |
| C | 27 | 1 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 62 | 30 | 21 | | | | | 113 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 4 | | | | | 27 |
| B | 27 | 0 | 0 | | | | | 27 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.24 | 23.5 | 3.92 | | | | | 56.66 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Hollins Brow / Hollins Lane**




***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 380 | 492 | | | | | 873 |
| B | 244 | 0 | 48 | | | | | 292 |
| C | 742 | 65 | 0 | | | | | 807 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 986 | 446 | 540 | | | | | 1971 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 329 | 408 | | | | | 737 |
| B | 174 | 0 | 37 | | | | | 212 |
| C | 615 | 47 | 0 | | | | | 662 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 789 | 376 | 445 | | | | | 1611 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 59 | | | | | 101 |
| B | 42 | 0 | 4 | | | | | 47 |
| C | 81 | 11 | 0 | | | | | 92 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 123 | 54 | 63 | | | | | 240 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 26 | | | | | 30 |
| B | 23 | 0 | 0 | | | | | 24 |
| C | 45 | 2 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 69 | 6 | 26 | | | | | 101 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 203 | 524 | | | | | 728 |
| B | 190 | 0 | 42 | | | | | 233 |
| C | 595 | 44 | 0 | | | | | 639 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 785 | 248 | 567 | | | | | 1600 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 165 | 402 | | | | | 567 |
| B | 143 | 0 | 28 | | | | | 171 |
| C | 448 | 29 | 0 | | | | | 477 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 591 | 194 | 430 | | | | | 1215 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 73 | | | | | 102 |
| B | 31 | 0 | 8 | | | | | 39 |
| C | 86 | 9 | 0 | | | | | 94 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 116 | 38 | 81 | | | | | 235 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 49 | | | | | 56 |
| B | 13 | 0 | 0 | | | | | 13 |
| C | 61 | 1 | 0 | | | | | 62 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 8 | 49 | | | | | 131 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 4 | 7.96 | 5.99 | | | | | 17.95 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 354 | 567 | | | | | 921 |
| B | 171 | 0 | 40 | | | | | 211 |
| C | 603 | 58 | 0 | | | | | 660 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 774 | 412 | 607 | | | | | 1793 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 311 | 502 | | | | | 813 |
| B | 144 | 0 | 29 | | | | | 173 |
| C | 531 | 40 | 0 | | | | | 572 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 676 | 352 | 530 | | | | | 1558 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 51 | | | | | 86 |
| B | 18 | 0 | 5 | | | | | 22 |
| C | 49 | 11 | 0 | | | | | 60 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 67 | 46 | 56 | | | | | 169 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 14 | | | | | 18 |
| B | 7 | 0 | 0 | | | | | 7 |
| C | 22 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 4 | 15 | | | | | 48 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.98 | 9.82 | 5.93 | | | | | 17.73 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / A56 Manchester Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 620 | 626 | | | | | 1246 |
| B | 444 | 0 | 96 | | | | | 540 |
| C | 960 | 187 | 0 | | | | | 1147 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1404 | 807 | 722 | | | | | 2932 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 523 | 499 | | | | | 1022 |
| B | 371 | 0 | 74 | | | | | 445 |
| C | 837 | 139 | 0 | | | | | 977 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1208 | 662 | 573 | | | | | 2443 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 70 | | | | | 129 |
| B | 51 | 0 | 12 | | | | | 63 |
| C | 74 | 33 | 0 | | | | | 107 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 125 | 92 | 82 | | | | | 298 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 37 | | | | | 69 |
| B | 16 | 0 | 10 | | | | | 26 |
| C | 29 | 15 | 0 | | | | | 44 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 45 | 47 | 47 | | | | | 139 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 6 | 20 | | | | | 52 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 405 | 685 | | | | | 1090 |
| B | 379 | 0 | 187 | | | | | 567 |
| C | 739 | 234 | 0 | | | | | 974 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1119 | 639 | 872 | | | | | 2630 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 311 | 543 | | | | | 854 |
| B | 298 | 0 | 132 | | | | | 430 |
| C | 579 | 166 | 0 | | | | | 746 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 877 | 477 | 676 | | | | | 2030 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 84 | | | | | 143 |
| B | 51 | 0 | 30 | | | | | 81 |
| C | 101 | 35 | 0 | | | | | 137 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 152 | 94 | 114 | | | | | 361 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 38 | | | | | 68 |
| B | 25 | 0 | 25 | | | | | 49 |
| C | 37 | 32 | 0 | | | | | 69 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 62 | 62 | 63 | | | | | 186 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.88 | 5.98 | 19.93 | | | | | 53.79 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 495 | 823 | | | | | 1318 |
| B | 483 | 0 | 124 | | | | | 607 |
| C | 873 | 165 | 0 | | | | | 1039 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1356 | 660 | 946 | | | | | 2963 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 441 | 729 | | | | | 1170 |
| B | 420 | 0 | 110 | | | | | 530 |
| C | 769 | 131 | 0 | | | | | 900 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1189 | 572 | 840 | | | | | 2600 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 64 | | | | | 101 |
| B | 45 | 0 | 11 | | | | | 56 |
| C | 73 | 23 | 0 | | | | | 96 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 117 | 60 | 75 | | | | | 252 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 10 | | | | | 21 |
| B | 12 | 0 | 2 | | | | | 15 |
| C | 13 | 11 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 25 | 23 | 12 | | | | | 59 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 25.41 | 5.96 | 19.88 | | | | | 51.25 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 26859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1301 | 3406 | 910 | | | | 5617 |
| B | 596 | 35 | 1090 | 4788 | | | | 6509 |
| C | 3370 | 336 | 0 | 1202 | | | | 4908 |
| D | 1230 | 5307 | 2289 | 0 | | | | 8826 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5196 | 6979 | 6785 | 6900 | | | | 25860 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 935 | 2209 | 509 | | | | 3653 |
| B | 549 | 0 | 837 | 2447 | | | | 3833 |
| C | 2275 | 231 | 0 | 643 | | | | 3149 |
| D | 641 | 2583 | 1335 | 0 | | | | 4559 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3465 | 3749 | 4381 | 3599 | | | | 15194 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 188 | 711 | 138 | | | | 1037 |
| B | 42 | 2 | 91 | 865 | | | | 1000 |
| C | 537 | 77 | 0 | 392 | | | | 1006 |
| D | 344 | 1011 | 542 | 0 | | | | 1897 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 923 | 1278 | 1344 | 1395 | | | | 4940 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 178 | 486 | 263 | | | | 927 |
| B | 5 | 33 | 162 | 1476 | | | | 1676 |
| C | 558 | 28 | 0 | 167 | | | | 753 |
| D | 245 | 1713 | 412 | 0 | | | | 2370 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 808 | 1952 | 1060 | 1906 | | | | 5726 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1019 | 1972 | 1042 | | | | 4033 |
| B | 547 | 67 | 552 | 5179 | | | | 6345 |
| C | 2689 | 286 | 0 | 914 | | | | 3889 |
| D | 1191 | 5305 | 2066 | 0 | | | | 8562 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4427 | 6677 | 4590 | 7135 | | | | 22829 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 771 | 1208 | 418 | | | | 2397 |
| B | 526 | 0 | 399 | 2528 | | | | 3453 |
| C | 1749 | 161 | 0 | 419 | | | | 2329 |
| D | 431 | 2458 | 1081 | 0 | | | | 3970 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2706 | 3390 | 2688 | 3365 | | | | 12149 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 142 | 431 | 229 | | | | 802 |
| B | 21 | 1 | 87 | 1089 | | | | 1198 |
| C | 496 | 60 | 0 | 259 | | | | 815 |
| D | 287 | 1025 | 455 | 0 | | | | 1767 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 804 | 1228 | 973 | 1577 | | | | 4582 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 106 | 333 | 395 | | | | 834 |
| B | 0 | 66 | 66 | 1562 | | | | 1694 |
| C | 444 | 65 | 0 | 236 | | | | 745 |
| D | 473 | 1822 | 530 | 0 | | | | 2825 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 917 | 2059 | 929 | 2193 | | | | 6098 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1101 | 2712 | 1110 | | | | 4923 |
| B | 326 | 73 | 799 | 5276 | | | | 6474 |
| C | 3869 | 380 | 0 | 925 | | | | 5174 |
| D | 1478 | 5288 | 2357 | 0 | | | | 9123 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5673 | 6842 | 5868 | 7311 | | | | 25694 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 990 | 2255 | 693 | | | | 3938 |
| B | 313 | 1 | 756 | 3507 | | | | 4577 |
| C | 3114 | 290 | 0 | 630 | | | | 4034 |
| D | 1017 | 3618 | 1668 | 0 | | | | 6303 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4444 | 4899 | 4679 | 4830 | | | | 18852 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 356 | 173 | | | | 619 |
| B | 13 | 3 | 29 | 765 | | | | 810 |
| C | 496 | 79 | 0 | 252 | | | | 827 |
| D | 253 | 742 | 413 | 0 | | | | 1408 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 762 | 914 | 798 | 1190 | | | | 3664 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 101 | 244 | | | | 366 |
| B | 0 | 69 | 14 | 1004 | | | | 1087 |
| C | 259 | 11 | 0 | 43 | | | | 313 |
| D | 208 | 928 | 276 | 0 | | | | 1412 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 467 | 1029 | 391 | 1291 | | | | 3178 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | JTC 20 - A627 SB |
| B | 2727 | 2724 | 2723 | 2725 | JTC 20 - M62 WB |
| C | 2768 | 4932 | 4929 | 2767 | JTC 20 - A627 NB |
| D | 2719 | 2721 | 2722 | 2720 | JTC 20 - M62 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 271 | 1015 | 836 | | | | 2122 |
| B | 211 | 0 | 1125 | 4840 | | | | 6176 |
| C | 1035 | 798 | 0 | 1043 | | | | 2876 |
| D | 898 | 5412 | 1077 | 0 | | | | 7387 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2144 | 6481 | 3217 | 6719 | | | | 18561 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 200 | 773 | 501 | | | | 1474 |
| B | 180 | 0 | 782 | 2488 | | | | 3450 |
| C | 851 | 448 | 0 | 688 | | | | 1987 |
| D | 514 | 2750 | 728 | 0 | | | | 3992 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1545 | 3398 | 2283 | 3677 | | | | 10903 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 95 | 134 | | | | 258 |
| B | 25 | 0 | 158 | 784 | | | | 967 |
| C | 116 | 99 | 0 | 183 | | | | 398 |
| D | 147 | 966 | 203 | 0 | | | | 1316 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 288 | 1094 | 456 | 1101 | | | | 2939 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 42 | 147 | 201 | | | | 390 |
| B | 6 | 0 | 185 | 1568 | | | | 1759 |
| C | 68 | 251 | 0 | 172 | | | | 491 |
| D | 237 | 1696 | 146 | 0 | | | | 2079 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 311 | 1989 | 478 | 1941 | | | | 4719 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 141 | 844 | 693 | | | | 1678 |
| B | 253 | 0 | 961 | 4809 | | | | 6023 |
| C | 333 | 691 | 0 | 830 | | | | 1854 |
| D | 762 | 5513 | 794 | 0 | | | | 7069 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1348 | 6345 | 2599 | 6332 | | | | 16624 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 82 | 602 | 390 | | | | 1074 |
| B | 93 | 0 | 450 | 2483 | | | | 3026 |
| C | 160 | 332 | 0 | 561 | | | | 1053 |
| D | 539 | 2589 | 553 | 0 | | | | 3681 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 792 | 3003 | 1605 | 3434 | | | | 8834 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 122 | 132 | | | | 272 |
| B | 22 | 0 | 172 | 827 | | | | 1021 |
| C | 102 | 114 | 0 | 195 | | | | 411 |
| D | 143 | 965 | 157 | 0 | | | | 1265 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 267 | 1097 | 451 | 1154 | | | | 2969 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 120 | 171 | | | | 332 |
| B | 138 | 0 | 339 | 1499 | | | | 1976 |
| C | 71 | 245 | 0 | 74 | | | | 390 |
| D | 80 | 1959 | 84 | 0 | | | | 2123 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 289 | 2245 | 543 | 1744 | | | | 4821 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 249 | 959 | 1047 | | | | 2255 |
| B | 174 | 0 | 1120 | 4458 | | | | 5752 |
| C | 981 | 893 | 0 | 1218 | | | | 3092 |
| D | 599 | 5393 | 1055 | 0 | | | | 7047 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1754 | 6535 | 3134 | 6723 | | | | 18146 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 194 | 711 | 710 | | | | 1615 |
| B | 121 | 0 | 869 | 2910 | | | | 3900 |
| C | 852 | 695 | 0 | 982 | | | | 2529 |
| D | 479 | 3725 | 914 | 0 | | | | 5118 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1452 | 4614 | 2494 | 4602 | | | | 13162 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 124 | 132 | | | | 282 |
| B | 12 | 0 | 97 | 570 | | | | 679 |
| C | 100 | 118 | 0 | 148 | | | | 366 |
| D | 94 | 727 | 105 | 0 | | | | 926 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 206 | 871 | 326 | 850 | | | | 2253 |

HGV

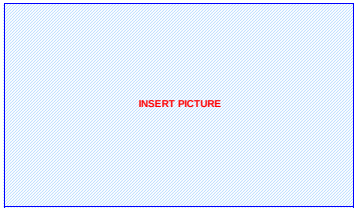
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 124 | 205 | | | | 358 |
| B | 41 | 0 | 154 | 978 | | | | 1173 |
| C | 29 | 80 | 0 | 88 | | | | 197 |
| D | 26 | 941 | 36 | 0 | | | | 1003 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 1050 | 314 | 1271 | | | | 2731 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J19




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | *JTC 21 - M60 SB* |
| B | 14141 | 5666 | 5093 | 14141 | *JTC 21 - A576 WB* |
| C | 5668 | 5665 | 5667 | 5669 | *JTC 21 - M60 NB* |
| D | 3414 | 5096 | 5095 | 3414 | *JTC 21 - A576 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 603 | 0 | 978 | | | | 1581 |
| B | 428 | 0 | 283 | 458 | | | | 1169 |
| C | 0 | 252 | 26 | 575 | | | | 853 |
| D | 482 | 283 | 775 | 0 | | | | 1540 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 910 | 1138 | 1084 | 2011 | | | | 5143 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 439 | 0 | 812 | | | | 1251 |
| B | 292 | 0 | 179 | 400 | | | | 871 |
| C | 0 | 161 | 23 | 474 | | | | 658 |
| D | 398 | 258 | 667 | 0 | | | | 1323 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 690 | 858 | 869 | 1686 | | | | 4103 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 97 | 0 | 78 | | | | 175 |
| B | 65 | 0 | 84 | 55 | | | | 204 |
| C | 0 | 34 | 3 | 79 | | | | 116 |
| D | 47 | 21 | 89 | 0 | | | | 157 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 112 | 152 | 176 | 212 | | | | 652 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 67 | 0 | 88 | | | | 155 |
| B | 71 | 0 | 20 | 3 | | | | 94 |
| C | 0 | 57 | 0 | 22 | | | | 79 |
| D | 37 | 4 | 19 | 0 | | | | 60 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 108 | 128 | 39 | 113 | | | | 388 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 381 | 0 | 692 | | | | 1073 |
| B | 273 | 0 | 271 | 339 | | | | 883 |
| C | 0 | 351 | 42 | 545 | | | | 938 |
| D | 572 | 487 | 665 | 0 | | | | 1724 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 845 | 1219 | 978 | 1576 | | | | 4618 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 255 | 0 | 541 | | | | 796 |
| B | 210 | 0 | 157 | 299 | | | | 666 |
| C | 0 | 188 | 42 | 435 | | | | 665 |
| D | 385 | 426 | 516 | 0 | | | | 1327 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 595 | 869 | 715 | 1275 | | | | 3454 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 0 | 96 | | | | 171 |
| B | 37 | 0 | 48 | 35 | | | | 120 |
| C | 0 | 91 | 0 | 74 | | | | 165 |
| D | 109 | 51 | 107 | 0 | | | | 267 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 146 | 217 | 155 | 205 | | | | 723 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 0 | 55 | | | | 106 |
| B | 26 | 0 | 66 | 5 | | | | 97 |
| C | 0 | 72 | 0 | 36 | | | | 108 |
| D | 78 | 10 | 42 | 0 | | | | 130 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 133 | 108 | 96 | | | | 441 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 382 | 0 | 1151 | | | | 1533 |
| B | 218 | 0 | 175 | 592 | | | | 985 |
| C | 4 | 363 | 10 | 529 | | | | 906 |
| D | 879 | 838 | 805 | 0 | | | | 2522 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1101 | 1583 | 990 | 2272 | | | | 5946 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 306 | 0 | 1078 | | | | 1384 |
| B | 191 | 0 | 138 | 537 | | | | 866 |
| C | 3 | 296 | 10 | 475 | | | | 784 |
| D | 764 | 774 | 731 | 0 | | | | 2269 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 958 | 1376 | 879 | 2090 | | | | 5303 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 0 | 53 | | | | 105 |
| B | 20 | 0 | 30 | 52 | | | | 102 |
| C | 1 | 46 | 0 | 54 | | | | 101 |
| D | 99 | 63 | 67 | 0 | | | | 229 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 120 | 161 | 97 | 159 | | | | 537 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 0 | 20 | | | | 44 |
| B | 7 | 0 | 7 | 3 | | | | 17 |
| C | 0 | 21 | 0 | 0 | | | | 21 |
| D | 16 | 1 | 7 | 0 | | | | 24 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 23 | 46 | 14 | 23 | | | | 106 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A576 Middleton Road / A6045 Heywood Old Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 1 | 501 | | | | 516 |
| B | 77 | 0 | 4 | 670 | | | | 751 |
| C | 5 | 4 | 0 | 15 | | | | 24 |
| D | 400 | 744 | 9 | 0 | | | | 1154 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 482 | 762 | 14 | 1187 | | | | 2445 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 0 | 364 | | | | 371 |
| B | 53 | 0 | 1 | 496 | | | | 550 |
| C | 3 | 3 | 0 | 11 | | | | 17 |
| D | 319 | 532 | 7 | 0 | | | | 858 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 375 | 541 | 9 | 871 | | | | 1796 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | 107 | | | | 112 |
| B | 9 | 0 | 0 | 93 | | | | 103 |
| C | 1 | 1 | 0 | 3 | | | | 5 |
| D | 39 | 111 | 1 | 0 | | | | 152 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 117 | 2 | 203 | | | | 372 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 0 | 30 | | | | 33 |
| B | 15 | 0 | 2 | 64 | | | | 80 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 42 | 85 | 1 | 0 | | | | 129 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 89 | 3 | 94 | | | | 244 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 34 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 6 | 285 | | | | 368 |
| B | 99 | 0 | 6 | 606 | | | | 711 |
| C | 5 | 5 | 0 | 9 | | | | 19 |
| D | 486 | 741 | 9 | 0 | | | | 1236 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 589 | 823 | 21 | 901 | | | | 2334 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 4 | 205 | | | | 272 |
| B | 61 | 0 | 4 | 454 | | | | 519 |
| C | 3 | 3 | 0 | 7 | | | | 13 |
| D | 338 | 524 | 7 | 0 | | | | 869 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 402 | 590 | 15 | 665 | | | | 1672 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 1 | 42 | | | | 52 |
| B | 11 | 0 | 1 | 77 | | | | 89 |
| C | 1 | 1 | 0 | 1 | | | | 4 |
| D | 93 | 123 | 1 | 0 | | | | 217 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 105 | 133 | 4 | 120 | | | | 363 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 1 | 38 | | | | 44 |
| B | 26 | 0 | 1 | 58 | | | | 85 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 55 | 77 | 1 | 0 | | | | 132 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 82 | 83 | 2 | 97 | | | | 264 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.82 | 0 | 17.95 | | | | 35.77 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 78 | 2 | 364 | | | | 444 |
| B | 140 | 0 | 5 | 632 | | | | 776 |
| C | 4 | 6 | 0 | 5 | | | | 15 |
| D | 673 | 915 | 11 | 0 | | | | 1599 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 817 | 999 | 17 | 1001 | | | | 2834 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 2 | 316 | | | | 390 |
| B | 129 | 0 | 4 | 546 | | | | 680 |
| C | 3 | 4 | 0 | 4 | | | | 11 |
| D | 585 | 782 | 9 | 0 | | | | 1375 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 717 | 857 | 15 | 866 | | | | 2455 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 0 | 40 | | | | 46 |
| B | 10 | 0 | 0 | 60 | | | | 70 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 69 | 90 | 1 | 0 | | | | 161 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 79 | 97 | 2 | 101 | | | | 279 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 0 | 7 | | | | 9 |
| B | 1 | 0 | 0 | 9 | | | | 11 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 19 | 26 | 1 | 0 | | | | 46 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 21 | 28 | 1 | 18 | | | | 67 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 17 | 0 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.17 | 0 | 15.61 | | | | 32.78 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 95 | 995 | | | | | 1091 |
| B | 0 | 0 | 1077 | | | | | 1077 |
| C | 1850 | 700 | 0 | | | | | 2550 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1850 | 796 | 2072 | | | | | 4718 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 69 | 751 | | | | | 820 |
| B | 0 | 0 | 778 | | | | | 778 |
| C | 1428 | 533 | 0 | | | | | 1961 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1428 | 602 | 1529 | | | | | 3559 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 105 | | | | | 122 |
| B | 0 | 0 | 219 | | | | | 219 |
| C | 174 | 110 | 0 | | | | | 284 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 174 | 127 | 325 | | | | | 626 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 110 | | | | | 119 |
| B | 0 | 0 | 79 | | | | | 79 |
| C | 217 | 57 | 0 | | | | | 275 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 217 | 67 | 189 | | | | | 473 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 29 | | | | | 29 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 0 | 29 | | | | | 59 |

### Model_2_Heywood_DS1a_2039_IP_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 988 | | | | | 1010 |
| B | 0 | 0 | 961 | | | | | 961 |
| C | 1531 | 601 | 0 | | | | | 2132 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1531 | 623 | 1949 | | | | | 4103 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 722 | | | | | 737 |
| B | 0 | 0 | 648 | | | | | 648 |
| C | 1114 | 401 | 0 | | | | | 1515 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1114 | 416 | 1370 | | | | | 2900 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 120 | | | | | 123 |
| B | 0 | 0 | 194 | | | | | 194 |
| C | 210 | 140 | 0 | | | | | 350 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 210 | 143 | 314 | | | | | 667 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 117 | | | | | 120 |
| B | 0 | 0 | 119 | | | | | 119 |
| C | 175 | 60 | 0 | | | | | 236 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 175 | 64 | 235 | | | | | 475 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.58 | 0 | 29.65 | | | | | 61.23 |

### Model_3_Heywood_DS1a_2039_PM_22.2_PolicyOff.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 1089 | | | | | 1093 |
| B | 0 | 0 | 1082 | | | | | 1082 |
| C | 1792 | 726 | 0 | | | | | 2518 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1792 | 730 | 2171 | | | | | 4693 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 983 | | | | | 985 |
| B | 0 | 0 | 969 | | | | | 969 |
| C | 1576 | 606 | 0 | | | | | 2181 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1576 | 608 | 1952 | | | | | 4135 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 58 | | | | | 59 |
| B | 0 | 0 | 91 | | | | | 91 |
| C | 141 | 86 | 0 | | | | | 227 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 141 | 87 | 149 | | | | | 377 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 21 | | | | | 22 |
| B | 0 | 0 | 22 | | | | | 22 |
| C | 47 | 34 | 0 | | | | | 81 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 35 | 43 | | | | | 125 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 28.65 | 0 | 27.2 | | | | | 55.85 |

## Run 22.3 - 2039 Do Something 1 - S.4.3 – Proposed Scheme Quantum Policy On - Origin-Destination Matrices

- Policy On ( Vision-Led)
- including the Proposed Scheme traffic generation
- excluding the M62 Access solution
- including Common Highway Mitigation Package and J18 DCO works
- Whittle Lane capacity constrained and South Heywood Link Closed

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60057 | 60011 | 4924 | 2718 | C1-M62 WiC1-M62 West |
| E | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizabe |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 246 | 238 | 477 | 5 | | | 966 |
| B | 225 | 0 | 127 | 0 | 562 | | | 914 |
| C | 237 | 110 | 0 | 255 | 84 | | | 686 |
| D | 225 | 0 | 137 | 2 | 153 | | | 517 |
| E | 1 | 310 | 82 | 51 | 0 | | | 444 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 688 | 666 | 584 | 785 | 804 | | | 3527 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 186 | 188 | 372 | 4 | | | 750 |
| B | 154 | 0 | 44 | 0 | 340 | | | 538 |
| C | 198 | 88 | 0 | 215 | 58 | | | 559 |
| D | 132 | 0 | 121 | 0 | 114 | | | 367 |
| E | 0 | 157 | 39 | 45 | 0 | | | 241 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 484 | 431 | 392 | 632 | 516 | | | 2455 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 47 | 34 | 1 | | | 135 |
| B | 35 | 0 | 51 | 0 | 66 | | | 152 |
| C | 35 | 4 | 0 | 35 | 9 | | | 83 |
| D | 58 | 0 | 8 | 1 | 6 | | | 73 |
| E | 1 | 27 | 8 | 2 | 0 | | | 38 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 129 | 84 | 114 | 72 | 82 | | | 481 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 3 | 71 | 0 | | | 81 |
| B | 36 | 0 | 32 | 0 | 156 | | | 224 |
| C | 4 | 18 | 0 | 5 | 17 | | | 44 |
| D | 35 | 0 | 8 | 1 | 33 | | | 77 |
| E | 0 | 126 | 35 | 4 | 0 | | | 165 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 151 | 78 | 81 | 206 | | | 591 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 207 | 243 | 265 | 0 | | | 715 |
| B | 169 | 0 | 78 | 0 | 194 | | | 441 |
| C | 181 | 147 | 0 | 240 | 93 | | | 661 |
| D | 200 | 0 | 96 | 8 | 157 | | | 461 |
| E | 6 | 281 | 71 | 31 | 0 | | | 389 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 556 | 635 | 488 | 544 | 444 | | | 2667 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 148 | 213 | 164 | 0 | | | 525 |
| B | 107 | 0 | 59 | 0 | 69 | | | 235 |
| C | 149 | 99 | 0 | 171 | 66 | | | 485 |
| D | 108 | 0 | 72 | 0 | 31 | | | 211 |
| E | 4 | 59 | 33 | 5 | 0 | | | 101 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 368 | 306 | 377 | 340 | 166 | | | 1557 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 22 | 50 | 0 | | | 115 |
| B | 34 | 0 | 13 | 0 | 18 | | | 65 |
| C | 22 | 15 | 0 | 44 | 5 | | | 86 |
| D | 43 | 0 | 19 | 1 | 18 | | | 81 |
| E | 2 | 50 | 7 | 3 | 0 | | | 62 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 101 | 108 | 61 | 98 | 41 | | | 409 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 8 | 51 | 0 | | | 75 |
| B | 28 | 0 | 6 | 0 | 107 | | | 141 |
| C | 10 | 33 | 0 | 25 | 22 | | | 90 |
| D | 49 | 0 | 5 | 7 | 108 | | | 169 |
| E | 0 | 172 | 31 | 23 | 0 | | | 226 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 87 | 221 | 50 | 106 | 237 | | | 701 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 254 | 237 | 307 | 0 | | | 798 |
| B | 205 | 0 | 197 | 0 | 240 | | | 642 |
| C | 277 | 118 | 0 | 202 | 146 | | | 743 |
| D | 270 | 0 | 176 | 0 | 92 | | | 538 |
| E | 17 | 488 | 55 | 11 | 0 | | | 571 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 769 | 860 | 665 | 520 | 478 | | | 3292 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 210 | 218 | 286 | 0 | | | 714 |
| B | 158 | 0 | 165 | 0 | 121 | | | 444 |
| C | 261 | 97 | 0 | 156 | 136 | | | 650 |
| D | 229 | 0 | 146 | 0 | 70 | | | 445 |
| E | 15 | 405 | 37 | 5 | 0 | | | 462 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 663 | 712 | 566 | 447 | 327 | | | 2715 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 16 | 12 | 0 | | | 60 |
| B | 30 | 0 | 27 | 0 | 24 | | | 81 |
| C | 15 | 21 | 0 | 26 | 3 | | | 65 |
| D | 23 | 0 | 27 | 0 | 10 | | | 60 |
| E | 2 | 18 | 3 | 0 | 0 | | | 23 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 70 | 71 | 73 | 38 | 37 | | | 289 |

MODELLED — HGV

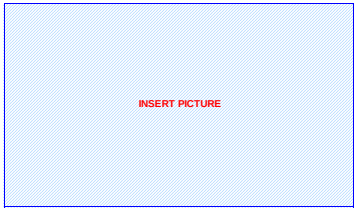
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 3 | 9 | 0 | | | 24 |
| B | 17 | 0 | 5 | 0 | 95 | | | 117 |
| C | 1 | 0 | 0 | 20 | 7 | | | 28 |
| D | 18 | 0 | 3 | 0 | 12 | | | 33 |
| E | 0 | 65 | 15 | 6 | 0 | | | 86 |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 36 | 77 | 26 | 35 | 114 | | | 288 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | 045 Manchester Road |
| B | 60003 | 60010 | 60010 | 60003 | d Queen Elizabeth Wa |
| C | 2814 | 60010 | 60010 | 2814 | 045 Manchester Road |
| D | 60008 | 60010 | 60010 | 60008 | d Queen Elizabeth Wa |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 115 | 319 | 108 | | | | 542 |
| B | 98 | 0 | 99 | 608 | | | | 805 |
| C | 221 | 8 | 0 | 31 | | | | 261 |
| D | 57 | 322 | 20 | 0 | | | | 399 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 376 | 446 | 438 | 747 | | | | 2007 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 97 | 249 | 92 | | | | 438 |
| B | 72 | 0 | 81 | 365 | | | | 518 |
| C | 189 | 4 | 0 | 19 | | | | 212 |
| D | 46 | 141 | 17 | 0 | | | | 204 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 307 | 243 | 346 | 476 | | | | 1371 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 48 | 15 | | | | 72 |
| B | 11 | 0 | 19 | 52 | | | | 82 |
| C | 18 | 2 | 0 | 5 | | | | 25 |
| D | 9 | 26 | 2 | 0 | | | | 37 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 37 | 69 | 72 | | | | 216 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 21 | 1 | | | | 30 |
| B | 15 | 0 | 0 | 190 | | | | 206 |
| C | 14 | 2 | 0 | 8 | | | | 24 |
| D | 2 | 155 | 1 | 0 | | | | 158 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 166 | 21 | 200 | | | | 418 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 196 | 54 | | | | 282 |
| B | 82 | 0 | 23 | 339 | | | | 444 |
| C | 279 | 54 | 0 | 29 | | | | 362 |
| D | 51 | 306 | 11 | 0 | | | | 367 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 411 | 392 | 230 | 422 | | | | 1455 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 154 | 43 | | | | 215 |
| B | 62 | 0 | 19 | 85 | | | | 165 |
| C | 212 | 21 | 0 | 20 | | | | 254 |
| D | 33 | 63 | 9 | 0 | | | | 104 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 306 | 102 | 181 | 149 | | | | 738 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 22 | 10 | | | | 36 |
| B | 9 | 0 | 4 | 29 | | | | 42 |
| C | 33 | 10 | 0 | 4 | | | | 47 |
| D | 13 | 48 | 1 | 0 | | | | 62 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 55 | 62 | 27 | 43 | | | | 187 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 18 | 0 | | | | 28 |
| B | 12 | 0 | 0 | 225 | | | | 237 |
| C | 31 | 23 | 0 | 5 | | | | 60 |
| D | 5 | 195 | 1 | 0 | | | | 201 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 48 | 228 | 20 | 230 | | | | 525 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 260 | 47 | | | | 334 |
| B | 87 | 0 | 37 | 354 | | | | 477 |
| C | 475 | 136 | 0 | 42 | | | | 654 |
| D | 73 | 409 | 14 | 0 | | | | 495 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 634 | 573 | 311 | 443 | | | | 1961 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 236 | 36 | | | | 290 |
| B | 71 | 0 | 31 | 225 | | | | 327 |
| C | 425 | 125 | 0 | 35 | | | | 585 |
| D | 62 | 319 | 11 | 0 | | | | 393 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 558 | 463 | 278 | 296 | | | | 1594 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 19 | 9 | | | | 30 |
| B | 9 | 0 | 5 | 23 | | | | 37 |
| C | 34 | 10 | 0 | 5 | | | | 49 |
| D | 5 | 11 | 1 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 48 | 23 | 24 | 38 | | | | 133 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 3 | 1 | | | | 12 |
| B | 6 | 0 | 2 | 106 | | | | 114 |
| C | 15 | 1 | 0 | 2 | | | | 18 |
| D | 5 | 78 | 1 | 0 | | | | 85 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 87 | 7 | 109 | | | | 230 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.96 | 0 | 1.99 | 0 | | | | 3.95 |

***Junction Turning Flows, Units: PCUs Demand Flows***

***Junction:***

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | | | | | |
| B | | | | | |
| C | | | | | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |

Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |

Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

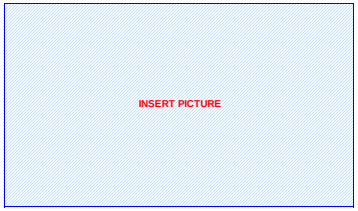
Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |

0 0 0 0

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Hill Top Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | *Harehills Rd EB* |
| B | 60036 | 60031 | 60031 | 60036 | *Hill Top Road* |
| C | 60230 | 7454 | 7454 | 60230 | *Harehills Rd SB* |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 140 | 388 | 0 | | | | 528 |
| B | 95 | 0 | 11 | 0 | | | | 106 |
| C | 665 | 83 | 0 | 0 | | | | 748 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 760 | 223 | 399 | 0 | | | | 1382 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 85 | 201 | 0 | | | | 286 |
| B | 17 | 0 | 3 | 0 | | | | 20 |
| C | 417 | 59 | 0 | 0 | | | | 476 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 434 | 144 | 204 | 0 | | | | 782 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 37 | 0 | | | | 44 |
| B | 6 | 0 | 0 | 0 | | | | 6 |
| C | 68 | 4 | 0 | 0 | | | | 72 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 11 | 37 | 0 | | | | 122 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 150 | 0 | | | | 198 |
| B | 72 | 0 | 8 | 0 | | | | 80 |
| C | 180 | 20 | 0 | 0 | | | | 200 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 252 | 68 | 158 | 0 | | | | 478 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 323 | 0 | | | | 394 |
| B | 99 | 0 | 44 | 0 | | | | 143 |
| C | 368 | 55 | 0 | 0 | | | | 423 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 467 | 126 | 367 | 0 | | | | 960 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 90 | 0 | | | | 119 |
| B | 48 | 0 | 14 | 0 | | | | 62 |
| C | 135 | 14 | 0 | 0 | | | | 149 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 183 | 43 | 104 | 0 | | | | 330 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 56 | 0 | | | | 64 |
| B | 11 | 0 | 6 | 0 | | | | 17 |
| C | 37 | 6 | 0 | 0 | | | | 43 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 48 | 14 | 62 | 0 | | | | 124 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 177 | 0 | | | | 211 |
| B | 40 | 0 | 24 | 0 | | | | 64 |
| C | 196 | 35 | 0 | 0 | | | | 231 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 236 | 69 | 201 | 0 | | | | 506 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 445 | 0 | | | | 499 |
| B | 135 | 0 | 51 | 0 | | | | 186 |
| C | 411 | 33 | 0 | 0 | | | | 444 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 546 | 87 | 496 | 0 | | | | 1129 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 360 | 0 | | | | 385 |
| B | 110 | 0 | 34 | 0 | | | | 144 |
| C | 277 | 20 | 0 | 0 | | | | 297 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 387 | 45 | 394 | 0 | | | | 826 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 11 | 0 | | | | 13 |
| B | 3 | 0 | 6 | 0 | | | | 9 |
| C | 37 | 1 | 0 | 0 | | | | 38 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 3 | 17 | 0 | | | | 60 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 74 | 0 | | | | 101 |
| B | 22 | 0 | 11 | 0 | | | | 33 |
| C | 97 | 12 | 0 | 0 | | | | 109 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 119 | 39 | 85 | 0 | | | | 243 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Pilsworth Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 158 | 363 | | | | | 521 |
| B | 340 | 0 | 166 | | | | | 506 |
| C | 598 | 162 | 0 | | | | | 760 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 938 | 320 | 529 | | | | | 1787 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 107 | 161 | | | | | 267 |
| B | 257 | 0 | 126 | | | | | 384 |
| C | 315 | 119 | 0 | | | | | 434 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 573 | 225 | 287 | | | | | 1085 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 23 | | | | | 36 |
| B | 32 | 0 | 21 | | | | | 53 |
| C | 56 | 18 | 0 | | | | | 74 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 87 | 32 | 44 | | | | | 163 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 180 | | | | | 218 |
| B | 51 | 0 | 19 | | | | | 70 |
| C | 227 | 25 | 0 | | | | | 252 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 278 | 63 | 198 | | | | | 539 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 227 | 329 | | | | | 556 |
| B | 198 | 0 | 66 | | | | | 264 |
| C | 358 | 109 | 0 | | | | | 467 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 556 | 336 | 395 | | | | | 1287 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 131 | 80 | | | | | 211 |
| B | 122 | 0 | 40 | | | | | 162 |
| C | 113 | 69 | 0 | | | | | 182 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 235 | 200 | 120 | | | | | 555 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 54 | | | | | 85 |
| B | 26 | 0 | 11 | | | | | 37 |
| C | 30 | 18 | 0 | | | | | 48 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 49 | 64 | | | | | 170 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 65 | 195 | | | | | 260 |
| B | 51 | 0 | 15 | | | | | 66 |
| C | 214 | 22 | 0 | | | | | 236 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 265 | 86 | 210 | | | | | 562 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 302 | 434 | | | | | 736 |
| B | 199 | 0 | 63 | | | | | 262 |
| C | 359 | 185 | 0 | | | | | 544 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 558 | 487 | 498 | | | | | 1542 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 263 | 336 | | | | | 599 |
| B | 158 | 0 | 49 | | | | | 207 |
| C | 223 | 163 | 0 | | | | | 386 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 381 | 427 | 385 | | | | | 1192 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 6 | | | | | 24 |
| B | 8 | 0 | 6 | | | | | 14 |
| C | 23 | 16 | 0 | | | | | 39 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 33 | 12 | | | | | 77 |

HGV

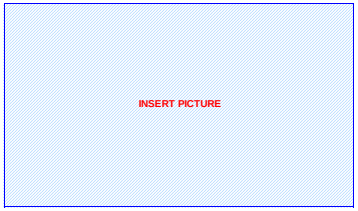
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 92 | | | | | 113 |
| B | 32 | 0 | 8 | | | | | 41 |
| C | 113 | 6 | 0 | | | | | 119 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 145 | 27 | 101 | | | | | 273 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Pilsworth Road / A58 Bury St**




***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 474 | 105 | | | | | 578 |
| B | 563 | 0 | 385 | | | | | 948 |
| C | 106 | 290 | 0 | | | | | 396 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 670 | 763 | 490 | | | | | 1923 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 351 | 90 | | | | | 440 |
| B | 396 | 0 | 271 | | | | | 667 |
| C | 86 | 214 | 0 | | | | | 301 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 482 | 565 | 361 | | | | | 1408 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 10 | | | | | 84 |
| B | 88 | 0 | 30 | | | | | 118 |
| C | 15 | 22 | 0 | | | | | 37 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 103 | 96 | 40 | | | | | 239 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 5 | | | | | 44 |
| B | 70 | 0 | 64 | | | | | 134 |
| C | 5 | 35 | 0 | | | | | 40 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 74 | 69 | | | | | 218 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 29 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 28 | 20 | | | | | 57 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 494 | 58 | | | | | 552 |
| B | 455 | 0 | 258 | | | | | 713 |
| C | 88 | 281 | 0 | | | | | 369 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 544 | 775 | 315 | | | | | 1634 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 366 | 45 | | | | | 410 |
| B | 325 | 0 | 169 | | | | | 495 |
| C | 71 | 175 | 0 | | | | | 247 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 396 | 541 | 214 | | | | | 1152 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 9 | | | | | 68 |
| B | 70 | 0 | 28 | | | | | 98 |
| C | 11 | 29 | 0 | | | | | 39 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 88 | 37 | | | | | 206 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 4 | | | | | 63 |
| B | 50 | 0 | 40 | | | | | 90 |
| C | 6 | 59 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 118 | 44 | | | | | 219 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.95 | 27.93 | 19.9 | | | | | 57.78 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 530 | 60 | | | | | 589 |
| B | 493 | 0 | 290 | | | | | 783 |
| C | 143 | 308 | 0 | | | | | 452 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 636 | 838 | 350 | | | | | 1824 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 483 | 52 | | | | | 535 |
| B | 435 | 0 | 222 | | | | | 657 |
| C | 134 | 268 | 0 | | | | | 402 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 569 | 751 | 274 | | | | | 1594 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 6 | | | | | 38 |
| B | 37 | 0 | 23 | | | | | 60 |
| C | 8 | 20 | 0 | | | | | 28 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 45 | 52 | 29 | | | | | 126 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 2 | | | | | 9 |
| B | 13 | 0 | 26 | | | | | 39 |
| C | 1 | 2 | 0 | | | | | 3 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 14 | 10 | 28 | | | | | 51 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 20 | | | | | 28 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.93 | 25.88 | 19.82 | | | | | 53.63 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / Heywood Distribution Centre

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | Pilsworth Rd NB |
| B | 20430 | 7459 | 7459 | 20430 | ywood Distribution Cer |
| C | 2813 | 7459 | 7459 | 2813 | Pilsworth Rd SB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 189 | 440 | | | | | 629 |
| B | 79 | 0 | 81 | | | | | 161 |
| C | 750 | 188 | 0 | | | | | 938 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 830 | 377 | 521 | | | | | 1728 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 101 | 250 | | | | | 351 |
| B | 14 | 0 | 17 | | | | | 32 |
| C | 453 | 120 | 0 | | | | | 573 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 468 | 221 | 267 | | | | | 955 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 29 | | | | | 42 |
| B | 11 | 0 | 7 | | | | | 18 |
| C | 75 | 13 | 0 | | | | | 87 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 86 | 25 | 36 | | | | | 147 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 161 | | | | | 237 |
| B | 54 | 0 | 57 | | | | | 111 |
| C | 222 | 55 | 0 | | | | | 278 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 276 | 131 | 218 | | | | | 625 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 443 | | | | | 497 |
| B | 122 | 0 | 113 | | | | | 235 |
| C | 395 | 161 | 0 | | | | | 556 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 517 | 215 | 556 | | | | | 1288 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 159 | | | | | 188 |
| B | 48 | 0 | 53 | | | | | 100 |
| C | 189 | 46 | 0 | | | | | 235 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 237 | 76 | 211 | | | | | 524 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 72 | | | | | 81 |
| B | 18 | 0 | 13 | | | | | 31 |
| C | 39 | 17 | 0 | | | | | 56 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 56 | 27 | 85 | | | | | 168 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 213 | | | | | 227 |
| B | 57 | 0 | 47 | | | | | 104 |
| C | 168 | 97 | 0 | | | | | 265 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 224 | 112 | 260 | | | | | 596 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 57 | 635 | | | | | 693 |
| B | 142 | 0 | 101 | | | | | 243 |
| C | 499 | 59 | 0 | | | | | 558 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 641 | 116 | 736 | | | | | 1493 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 522 | | | | | 536 |
| B | 112 | 0 | 77 | | | | | 189 |
| C | 350 | 30 | 0 | | | | | 381 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 462 | 45 | 599 | | | | | 1106 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 21 | | | | | 22 |
| B | 9 | 0 | 3 | | | | | 12 |
| C | 26 | 5 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 35 | 7 | 24 | | | | | 66 |

MODELLED — HGV

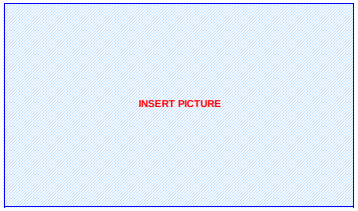
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 93 | | | | | 134 |
| B | 21 | 0 | 20 | | | | | 41 |
| C | 122 | 23 | 0 | | | | | 145 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 143 | 64 | 113 | | | | | 320 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / JPA1.1 & SHDA employment




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | *Pilsworth Rd SB* |
| B | 60027 | 60229 | 60229 | 60027 | *SHDA* |
| C | 60024 | 60229 | 60229 | 60024 | *Pilsworth Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 830 | | | | | 830 |
| B | 0 | 0 | 1 | | | | | 1 |
| C | 629 | 0 | 0 | | | | | 629 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 629 | 0 | 830 | | | | | 1460 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 468 | | | | | 468 |
| B | 0 | 0 | 1 | | | | | 1 |
| C | 351 | 0 | 0 | | | | | 351 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 351 | 0 | 468 | | | | | 819 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 86 | | | | | 86 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 42 | 0 | 0 | | | | | 42 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 42 | 0 | 86 | | | | | 127 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 276 | | | | | 276 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 237 | 0 | 0 | | | | | 237 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 237 | 0 | 276 | | | | | 513 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 517 | | | | | 517 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 497 | 0 | 0 | | | | | 497 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 497 | 0 | 517 | | | | | 1014 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 237 | | | | | 237 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 188 | 0 | 0 | | | | | 188 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 188 | 0 | 237 | | | | | 425 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 56 | | | | | 56 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 81 | 0 | 0 | | | | | 81 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 0 | 56 | | | | | 137 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 224 | | | | | 224 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 227 | 0 | 0 | | | | | 227 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 227 | 0 | 224 | | | | | 452 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 641 | | | | | 641 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 693 | 1 | 0 | | | | | 694 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 693 | 1 | 641 | | | | | 1335 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 462 | | | | | 462 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 536 | 1 | 0 | | | | | 537 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 536 | 1 | 462 | | | | | 1000 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 35 | | | | | 35 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 22 | 0 | 35 | | | | | 58 |

HGV

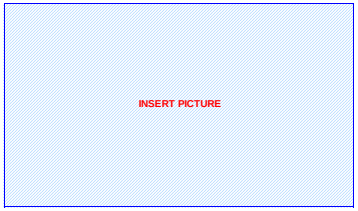
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 143 | | | | | 143 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 134 | 0 | 0 | | | | | 134 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 134 | 0 | 143 | | | | | 277 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** 3 Arrows (Pilsworth Road / Moss Hall Road - South)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 60241 | 2037 | 2037 | 60241 | *Link Road* |
| D | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 322 | 497 | 12 | | | | 830 |
| B | 138 | 0 | 335 | 1 | | | | 473 |
| C | 489 | 629 | 0 | 18 | | | | 1135 |
| D | 3 | 1 | 13 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 629 | 951 | 844 | 30 | | | | 2455 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 148 | 314 | 7 | | | | 468 |
| B | 7 | 0 | 89 | 1 | | | | 96 |
| C | 344 | 313 | 0 | 6 | | | | 663 |
| D | 1 | 1 | 1 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 351 | 462 | 403 | 13 | | | | 1229 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 63 | 1 | | | | 86 |
| B | 9 | 0 | 83 | 0 | | | | 92 |
| C | 32 | 94 | 0 | 4 | | | | 130 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 42 | 115 | 146 | 5 | | | | 308 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 153 | 120 | 4 | | | | 276 |
| B | 122 | 0 | 163 | 0 | | | | 285 |
| C | 112 | 222 | 0 | 8 | | | | 342 |
| D | 2 | 0 | 12 | 0 | | | | 14 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 237 | 374 | 295 | 12 | | | | 918 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 163 | 352 | 2 | | | | 517 |
| B | 202 | 0 | 477 | 0 | | | | 680 |
| C | 285 | 422 | 0 | 22 | | | | 728 |
| D | 10 | 1 | 17 | 0 | | | | 28 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 497 | 585 | 846 | 25 | | | | 1953 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 207 | 2 | | | | 237 |
| B | 40 | 0 | 172 | 0 | | | | 212 |
| C | 146 | 124 | 0 | 2 | | | | 273 |
| D | 2 | 0 | 5 | 0 | | | | 7 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 188 | 153 | 384 | 4 | | | | 728 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 35 | 1 | | | | 56 |
| B | 29 | 0 | 97 | 0 | | | | 126 |
| C | 50 | 83 | 0 | 2 | | | | 135 |
| D | 2 | 0 | 1 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 105 | 132 | 3 | | | | 320 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 114 | 110 | 0 | | | | 224 |
| B | 133 | 0 | 209 | 0 | | | | 342 |
| C | 88 | 214 | 0 | 18 | | | | 321 |
| D | 6 | 0 | 11 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 227 | 328 | 330 | 18 | | | | 904 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 91 | 538 | 12 | | | | 641 |
| B | 192 | 0 | 663 | 2 | | | | 856 |
| C | 494 | 216 | 0 | 15 | | | | 726 |
| D | 8 | 1 | 10 | 0 | | | | 19 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 694 | 308 | 1211 | 29 | | | | 2242 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 442 | 6 | | | | 462 |
| B | 114 | 0 | 489 | 2 | | | | 606 |
| C | 417 | 93 | 0 | 9 | | | | 519 |
| D | 6 | 1 | 7 | 0 | | | | 14 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 537 | 108 | 938 | 17 | | | | 1601 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 31 | 0 | | | | 35 |
| B | 6 | 0 | 49 | 0 | | | | 56 |
| C | 15 | 20 | 0 | 1 | | | | 35 |
| D | 1 | 0 | 2 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 22 | 24 | 82 | 1 | | | | 129 |

MODELLED — HGV

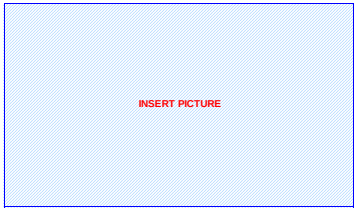
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 65 | 5 | | | | 143 |
| B | 71 | 0 | 124 | 0 | | | | 195 |
| C | 63 | 104 | 0 | 5 | | | | 171 |
| D | 0 | 0 | 2 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 134 | 177 | 191 | 10 | | | | 511 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Fowler Welch (Pilsworth Road / Moss Hall Road - North)




***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60241 | 60246 | 60246 | 60241 | *Moss Hall Rd NB* |
| B | 60000 | 60213 | 60213 | 60000 | *Pilsworth Road* |
| C | 60228 | 2038 | 2038 | 60228 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 740 | 103 | | | | | 843 |
| B | 954 | 0 | 59 | | | | | 1013 |
| C | 181 | 103 | 0 | | | | | 284 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1135 | 843 | 162 | | | | | 2140 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 363 | 40 | | | | | 403 |
| B | 605 | 0 | 36 | | | | | 641 |
| C | 58 | 81 | 0 | | | | | 139 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 663 | 444 | 76 | | | | | 1183 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 109 | 36 | | | | | 145 |
| B | 71 | 0 | 10 | | | | | 81 |
| C | 59 | 14 | 0 | | | | | 73 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 130 | 123 | 46 | | | | | 299 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 268 | 27 | | | | | 295 |
| B | 278 | 0 | 13 | | | | | 291 |
| C | 64 | 8 | 0 | | | | | 72 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 342 | 276 | 40 | | | | | 658 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 621 | 226 | | | | | 847 |
| B | 655 | 0 | 74 | | | | | 729 |
| C | 72 | 98 | 0 | | | | | 170 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 727 | 719 | 300 | | | | | 1746 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 275 | 110 | | | | | 385 |
| B | 262 | 0 | 58 | | | | | 320 |
| C | 10 | 81 | 0 | | | | | 91 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 272 | 356 | 168 | | | | | 796 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 88 | 44 | | | | | 132 |
| B | 118 | 0 | 10 | | | | | 128 |
| C | 16 | 13 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 134 | 101 | 54 | | | | | 289 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 258 | 72 | | | | | 330 |
| B | 275 | 0 | 6 | | | | | 281 |
| C | 46 | 4 | 0 | | | | | 50 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 321 | 262 | 78 | | | | | 661 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 883 | 328 | | | | | 1211 |
| B | 692 | 0 | 175 | | | | | 867 |
| C | 33 | 118 | 0 | | | | | 151 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 725 | 1001 | 503 | | | | | 2229 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 672 | 267 | | | | | 939 |
| B | 512 | 0 | 154 | | | | | 666 |
| C | 7 | 107 | 0 | | | | | 114 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 519 | 779 | 421 | | | | | 1719 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 23 | | | | | 82 |
| B | 26 | 0 | 19 | | | | | 45 |
| C | 9 | 10 | 0 | | | | | 19 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 35 | 69 | 42 | | | | | 146 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 152 | 38 | | | | | 190 |
| B | 154 | 0 | 2 | | | | | 156 |
| C | 17 | 1 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 171 | 153 | 40 | | | | | 364 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | *TC 11 - Pilsworth Rd E* |
| B | 3001 | 60238 | 60239 | 3000 | *JTC 11 - M66 SB Off* |
| C | 60213 | 60000 | 60000 | 60213 | *TC 11 - Pilsworth Rd W* |
| D | 60236 | 4918 | 60240 | 2998 | *JTC 11 - M66 NB Off* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 334 | 379 | 187 | | | | 900 |
| B | 402 | 0 | 278 | 0 | | | | 680 |
| C | 369 | 137 | 0 | 338 | | | | 844 |
| D | 605 | 0 | 357 | 0 | | | | 962 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1376 | 471 | 1014 | 525 | | | | 3386 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 257 | 286 | 123 | | | | 666 |
| B | 324 | 0 | 249 | 0 | | | | 573 |
| C | 290 | 38 | 0 | 117 | | | | 445 |
| D | 498 | 0 | 107 | 0 | | | | 605 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1112 | 295 | 642 | 240 | | | | 2289 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 33 | 52 | | | | 136 |
| B | 46 | 0 | 15 | 0 | | | | 61 |
| C | 49 | 33 | 0 | 42 | | | | 124 |
| D | 59 | 0 | 33 | 0 | | | | 92 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 154 | 84 | 81 | 94 | | | | 413 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 60 | 12 | | | | 98 |
| B | 32 | 0 | 14 | 0 | | | | 46 |
| C | 30 | 66 | 0 | 179 | | | | 275 |
| D | 48 | 0 | 217 | 0 | | | | 265 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 110 | 92 | 291 | 191 | | | | 684 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 380 | 268 | 189 | | | | 837 |
| B | 305 | 0 | 156 | 0 | | | | 461 |
| C | 240 | 76 | 0 | 403 | | | | 719 |
| D | 331 | 0 | 306 | 0 | | | | 637 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 876 | 456 | 730 | 592 | | | | 2654 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 303 | 138 | 165 | | | | 606 |
| B | 234 | 0 | 93 | 0 | | | | 327 |
| C | 179 | 38 | 0 | 139 | | | | 356 |
| D | 238 | 0 | 89 | 0 | | | | 327 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 651 | 341 | 320 | 304 | | | | 1616 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 45 | 51 | 20 | | | | 116 |
| B | 38 | 0 | 38 | 0 | | | | 76 |
| C | 31 | 16 | 0 | 54 | | | | 101 |
| D | 45 | 0 | 40 | 0 | | | | 85 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 114 | 61 | 129 | 74 | | | | 378 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 79 | 4 | | | | 115 |
| B | 33 | 0 | 25 | 0 | | | | 58 |
| C | 30 | 22 | 0 | 210 | | | | 262 |
| D | 48 | 0 | 177 | 0 | | | | 225 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 111 | 54 | 281 | 214 | | | | 660 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 389 | 484 | 189 | | | | 1062 |
| B | 283 | 0 | 130 | 0 | | | | 413 |
| C | 308 | 172 | 0 | 522 | | | | 1002 |
| D | 460 | 0 | 252 | 0 | | | | 712 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1051 | 561 | 866 | 711 | | | | 3189 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 358 | 440 | 168 | | | | 966 |
| B | 252 | 0 | 110 | 0 | | | | 362 |
| C | 266 | 146 | 0 | 367 | | | | 779 |
| D | 358 | 0 | 115 | 0 | | | | 473 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 876 | 504 | 665 | 535 | | | | 2580 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 21 | 18 | | | | 58 |
| B | 24 | 0 | 5 | 0 | | | | 29 |
| C | 18 | 23 | 0 | 28 | | | | 69 |
| D | 46 | 0 | 19 | 0 | | | | 65 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 88 | 42 | 45 | 46 | | | | 221 |

MODELLED — HGV

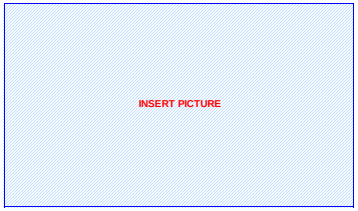
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 23 | 3 | | | | 38 |
| B | 7 | 0 | 15 | 0 | | | | 22 |
| C | 24 | 3 | 0 | 127 | | | | 154 |
| D | 56 | 0 | 118 | 0 | | | | 174 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 87 | 15 | 156 | 130 | | | | 388 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N12 - M66 NB Of |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 128 | 93 | 304 | 1359 | 43 | | 1927 |
| B | 239 | 0 | 22 | 217 | 0 | 29 | | 507 |
| C | 55 | 3 | 0 | 9 | 20 | 0 | | 87 |
| D | 552 | 249 | 22 | 0 | 203 | 48 | | 1074 |
| E | 1398 | 0 | 61 | 162 | 0 | 84 | | 1705 |
| F | 27 | 4 | 1 | 23 | 27 | 0 | | 82 |
| G | | | | | | | | |
| TOTAL | 2271 | 384 | 199 | 715 | 1609 | 204 | | 5382 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 99 | 37 | 181 | 1085 | 42 | | 1444 |
| B | 223 | 0 | 20 | 157 | 0 | 27 | | 427 |
| C | 9 | 1 | 0 | 3 | 7 | 0 | | 20 |
| D | 479 | 170 | 18 | 0 | 114 | 35 | | 816 |
| E | 1021 | 0 | 46 | 102 | 0 | 81 | | 1250 |
| F | 23 | 3 | 1 | 17 | 24 | 0 | | 68 |
| G | | | | | | | | |
| TOTAL | 1755 | 273 | 122 | 460 | 1230 | 185 | | 4025 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 27 | 66 | 162 | 1 | | 280 |
| B | 13 | 0 | 2 | 36 | 0 | 0 | | 51 |
| C | 32 | 2 | 0 | 4 | 8 | 0 | | 46 |
| D | 35 | 38 | 3 | 0 | 42 | 5 | | 123 |
| E | 170 | 0 | 7 | 35 | 0 | 2 | | 214 |
| F | 1 | 0 | 0 | 1 | 1 | 0 | | 3 |
| G | | | | | | | | |
| TOTAL | 251 | 64 | 39 | 142 | 213 | 8 | | 717 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 29 | 57 | 112 | 0 | | 203 |
| B | 3 | 0 | 0 | 24 | 0 | 2 | | 29 |
| C | 14 | 0 | 0 | 2 | 5 | 0 | | 21 |
| D | 38 | 41 | 1 | 0 | 47 | 8 | | 135 |
| E | 207 | 0 | 8 | 25 | 0 | 1 | | 241 |
| F | 3 | 1 | 0 | 5 | 2 | 0 | | 11 |
| G | | | | | | | | |
| TOTAL | 265 | 47 | 38 | 113 | 166 | 11 | | 640 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 173 | 100 | 277 | 1167 | 25 | | 1742 |
| B | 205 | 0 | 20 | 165 | 0 | 8 | | 398 |
| C | 73 | 12 | 0 | 13 | 30 | 1 | | 129 |
| D | 414 | 149 | 26 | 0 | 118 | 44 | | 751 |
| E | 1139 | 0 | 42 | 158 | 0 | 36 | | 1375 |
| F | 32 | 11 | 1 | 31 | 46 | 0 | | 121 |
| G | | | | | | | | |
| TOTAL | 1863 | 345 | 189 | 644 | 1361 | 114 | | 4516 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 124 | 49 | 194 | 846 | 22 | | 1235 |
| B | 169 | 0 | 15 | 102 | 0 | 6 | | 292 |
| C | 26 | 7 | 0 | 9 | 19 | 1 | | 62 |
| D | 289 | 91 | 17 | 0 | 47 | 24 | | 468 |
| E | 812 | 0 | 32 | 84 | 0 | 28 | | 956 |
| F | 29 | 9 | 1 | 22 | 37 | 0 | | 98 |
| G | | | | | | | | |
| TOTAL | 1325 | 231 | 114 | 411 | 949 | 81 | | 3111 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 32 | 30 | 178 | 2 | | 267 |
| B | 19 | 0 | 3 | 20 | 0 | 1 | | 43 |
| C | 37 | 3 | 0 | 3 | 7 | 0 | | 50 |
| D | 57 | 35 | 5 | 0 | 25 | 7 | | 129 |
| E | 175 | 0 | 7 | 39 | 0 | 3 | | 224 |
| F | 2 | 1 | 0 | 4 | 4 | 0 | | 11 |
| G | | | | | | | | |
| TOTAL | 290 | 64 | 47 | 96 | 214 | 13 | | 724 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 19 | 53 | 143 | 1 | | 240 |
| B | 17 | 0 | 2 | 43 | 0 | 1 | | 63 |
| C | 10 | 2 | 0 | 1 | 4 | 0 | | 17 |
| D | 68 | 23 | 4 | 0 | 46 | 13 | | 154 |
| E | 152 | 0 | 3 | 35 | 0 | 5 | | 195 |
| F | 1 | 1 | 0 | 5 | 5 | 0 | | 12 |
| G | | | | | | | | |
| TOTAL | 248 | 50 | 28 | 137 | 198 | 20 | | 681 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 251 | 29 | 335 | 1219 | 33 | | 1867 |
| B | 266 | 0 | 5 | 153 | 0 | 12 | | 436 |
| C | 46 | 11 | 0 | 17 | 42 | 1 | | 117 |
| D | 519 | 177 | 11 | 0 | 152 | 55 | | 914 |
| E | 1362 | 0 | 16 | 192 | 0 | 40 | | 1610 |
| F | 33 | 13 | 0 | 39 | 89 | 0 | | 174 |
| G | | | | | | | | |
| TOTAL | 2226 | 452 | 61 | 736 | 1502 | 141 | | 5118 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 238 | 15 | 297 | 1124 | 32 | | 1706 |
| B | 252 | 0 | 4 | 137 | 0 | 11 | | 404 |
| C | 21 | 10 | 0 | 15 | 39 | 1 | | 86 |
| D | 451 | 158 | 9 | 0 | 111 | 50 | | 779 |
| E | 1220 | 0 | 13 | 153 | 0 | 35 | | 1421 |
| F | 31 | 13 | 0 | 37 | 86 | 0 | | 167 |
| G | | | | | | | | |
| TOTAL | 1975 | 419 | 41 | 639 | 1360 | 129 | | 4563 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 12 | 20 | 73 | 1 | | 118 |
| B | 14 | 0 | 1 | 14 | 0 | 1 | | 30 |
| C | 21 | 1 | 0 | 2 | 3 | 0 | | 27 |
| D | 30 | 16 | 2 | 0 | 21 | 5 | | 74 |
| E | 107 | 0 | 3 | 25 | 0 | 3 | | 138 |
| F | 2 | 0 | 0 | 2 | 1 | 0 | | 5 |
| G | | | | | | | | |
| TOTAL | 174 | 29 | 18 | 63 | 98 | 10 | | 392 |

MODELLED — HGV

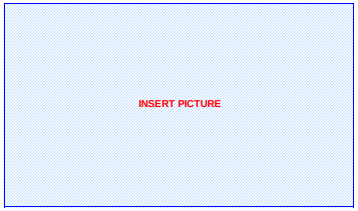
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 18 | 22 | 0 | | 43 |
| B | 0 | 0 | 0 | 2 | 0 | 0 | | 2 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 38 | 3 | 0 | 0 | 20 | 0 | | 61 |
| E | 35 | 0 | 0 | 14 | 0 | 2 | | 51 |
| F | 0 | 0 | 0 | 0 | 2 | 0 | | 2 |
| G | | | | | | | | |
| TOTAL | 77 | 4 | 2 | 34 | 44 | 2 | | 163 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | Heywood Old Road NE |
| B | 60074 | 2478 | 2478 | 60074 | Whittle Lane |
| C | 4730 | 2478 | 2478 | 4730 | Heywood Old Road SE |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 100 | 247 | | | | | 347 |
| B | 5 | 0 | 55 | | | | | 60 |
| C | 531 | 175 | 0 | | | | | 706 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 536 | 275 | 302 | | | | | 1113 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 82 | 199 | | | | | 282 |
| B | 1 | 0 | 35 | | | | | 36 |
| C | 432 | 128 | 0 | | | | | 560 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 433 | 210 | 234 | | | | | 877 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 24 | | | | | 42 |
| B | 4 | 0 | 21 | | | | | 25 |
| C | 77 | 47 | 0 | | | | | 124 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 65 | 45 | | | | | 191 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 21 | | | | | 21 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 23 | 0 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 23 | 0 | 21 | | | | | 44 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 390 | | | | | 421 |
| B | 21 | 0 | 89 | | | | | 110 |
| C | 258 | 52 | 0 | | | | | 309 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 279 | 83 | 479 | | | | | 841 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 278 | | | | | 287 |
| B | 13 | 0 | 61 | | | | | 73 |
| C | 213 | 23 | 0 | | | | | 236 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 225 | 32 | 339 | | | | | 597 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 47 | | | | | 70 |
| B | 8 | 0 | 28 | | | | | 37 |
| C | 26 | 28 | 0 | | | | | 54 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 51 | 76 | | | | | 161 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 63 | | | | | 63 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 19 | 0 | 0 | | | | | 19 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 19 | 0 | 63 | | | | | 82 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.99 | | | | | 1.99 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 727 | | | | | 744 |
| B | 39 | 0 | 164 | | | | | 204 |
| C | 330 | 67 | 0 | | | | | 398 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 369 | 85 | 891 | | | | | 1345 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 640 | | | | | 654 |
| B | 37 | 0 | 148 | | | | | 185 |
| C | 300 | 57 | 0 | | | | | 357 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 337 | 71 | 788 | | | | | 1196 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 67 | | | | | 70 |
| B | 2 | 0 | 16 | | | | | 19 |
| C | 24 | 10 | 0 | | | | | 34 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 27 | 14 | 83 | | | | | 123 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 18 | | | | | 18 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 6 | 0 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 6 | 0 | 18 | | | | | 24 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.95 | | | | | 1.95 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Heywood Old Road / Langley Lane

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | Heywood Old Road SB |
| B | 15238 | 4730 | 4730 | 15238 | Langley Lane |
| C | 2478 | 4730 | 4730 | 2478 | Heywood Old Road NB |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 368 | | | | | 438 |
| B | 79 | 0 | 338 | | | | | 417 |
| C | 182 | 121 | 0 | | | | | 302 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 261 | 191 | 706 | | | | | 1158 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 287 | | | | | 347 |
| B | 72 | 0 | 273 | | | | | 345 |
| C | 140 | 94 | 0 | | | | | 234 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 212 | 154 | 560 | | | | | 925 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 64 | | | | | 69 |
| B | 4 | 0 | 59 | | | | | 63 |
| C | 21 | 24 | 0 | | | | | 45 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 25 | 28 | 124 | | | | | 177 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 16 | | | | | 21 |
| B | 3 | 0 | 6 | | | | | 10 |
| C | 21 | 0 | 0 | | | | | 21 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 6 | 23 | | | | | 52 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 189 | | | | | 230 |
| B | 41 | 0 | 120 | | | | | 161 |
| C | 321 | 158 | 0 | | | | | 479 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 362 | 199 | 309 | | | | | 870 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 145 | | | | | 181 |
| B | 33 | 0 | 91 | | | | | 124 |
| C | 221 | 118 | 0 | | | | | 339 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 254 | 154 | 236 | | | | | 644 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 25 | | | | | 27 |
| B | 4 | 0 | 29 | | | | | 32 |
| C | 43 | 33 | 0 | | | | | 76 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 34 | 54 | | | | | 135 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 19 | | | | | 20 |
| B | 3 | 0 | 0 | | | | | 3 |
| C | 57 | 6 | 0 | | | | | 63 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 60 | 6 | 19 | | | | | 85 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.98 | 0 | | | | | 5.98 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 64 | 247 | | | | | 311 |
| B | 46 | 0 | 150 | | | | | 196 |
| C | 609 | 283 | 0 | | | | | 891 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 654 | 346 | 398 | | | | | 1398 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 55 | 223 | | | | | 278 |
| B | 43 | 0 | 134 | | | | | 177 |
| C | 543 | 245 | 0 | | | | | 788 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 586 | 300 | 357 | | | | | 1243 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 18 | | | | | 24 |
| B | 0 | 0 | 17 | | | | | 17 |
| C | 49 | 34 | 0 | | | | | 83 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 41 | 34 | | | | | 124 |

MODELLED — HGV

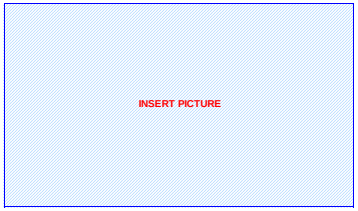
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 6 | | | | | 7 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 17 | 1 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 18 | 2 | 6 | | | | | 26 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.95 | 0 | | | | | 5.95 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Langley Lane / A6046 Hollin Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 124 | 644 | | | | | 768 |
| B | 97 | 0 | 63 | | | | | 160 |
| C | 608 | 5 | 0 | | | | | 613 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 705 | 129 | 707 | | | | | 1541 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 498 | | | | | 557 |
| B | 68 | 0 | 61 | | | | | 130 |
| C | 388 | 5 | 0 | | | | | 393 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 456 | 64 | 560 | | | | | 1080 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 82 | | | | | 141 |
| B | 24 | 0 | 1 | | | | | 25 |
| C | 114 | 0 | 0 | | | | | 114 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 138 | 59 | 83 | | | | | 280 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 43 | | | | | 50 |
| B | 0 | 0 | 1 | | | | | 1 |
| C | 76 | 0 | 0 | | | | | 76 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 77 | 6 | 44 | | | | | 127 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 20 | | | | | 20 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 0 | 20 | | | | | 54 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 664 | | | | | 715 |
| B | 90 | 0 | 17 | | | | | 107 |
| C | 500 | 11 | 0 | | | | | 512 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 590 | 62 | 681 | | | | | 1334 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 468 | | | | | 488 |
| B | 53 | 0 | 17 | | | | | 70 |
| C | 365 | 11 | 0 | | | | | 376 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 417 | 31 | 485 | | | | | 934 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 86 | | | | | 114 |
| B | 29 | 0 | 0 | | | | | 29 |
| C | 61 | 0 | 0 | | | | | 61 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 90 | 29 | 86 | | | | | 204 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 90 | | | | | 90 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 51 | 0 | 0 | | | | | 51 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 55 | 0 | 90 | | | | | 145 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.87 | 2 | 19.98 | | | | | 49.85 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 89 | 754 | | | | | 843 |
| B | 107 | 0 | 19 | | | | | 126 |
| C | 652 | 38 | 0 | | | | | 690 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 759 | 127 | 772 | | | | | 1659 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 635 | | | | | 706 |
| B | 76 | 0 | 16 | | | | | 92 |
| C | 529 | 37 | 0 | | | | | 566 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 605 | 109 | 651 | | | | | 1364 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 62 | | | | | 78 |
| B | 27 | 0 | 3 | | | | | 29 |
| C | 73 | 0 | 0 | | | | | 73 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 100 | 16 | 65 | | | | | 181 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 28 | | | | | 28 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 26 | 0 | 0 | | | | | 26 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 27 | 0 | 28 | | | | | 56 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 28 | | | | | 30 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.74 | 1.99 | 27.85 | | | | | 57.58 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Coronation Avenue

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 81 | 356 | | | | | 437 |
| B | 358 | 0 | 42 | | | | | 400 |
| C | 271 | 182 | 0 | | | | | 453 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 630 | 263 | 398 | | | | | 1290 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 275 | | | | | 275 |
| B | 246 | 0 | 33 | | | | | 279 |
| C | 236 | 154 | 0 | | | | | 391 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 482 | 154 | 308 | | | | | 944 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 58 | | | | | 58 |
| B | 35 | 0 | 6 | | | | | 41 |
| C | 18 | 23 | 0 | | | | | 41 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 23 | 64 | | | | | 140 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 19 | | | | | 70 |
| B | 58 | 0 | 3 | | | | | 60 |
| C | 17 | 5 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 56 | 22 | | | | | 153 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 4 | | | | | 34 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 20 | 30 | 4 | | | | | 53 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 241 | | | | | 312 |
| B | 118 | 0 | 85 | | | | | 203 |
| C | 339 | 140 | 0 | | | | | 479 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 457 | 211 | 326 | | | | | 994 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 177 | | | | | 177 |
| B | 25 | 0 | 42 | | | | | 67 |
| C | 237 | 108 | 0 | | | | | 345 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 262 | 108 | 219 | | | | | 589 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 36 | | | | | 36 |
| B | 1 | 0 | 35 | | | | | 35 |
| C | 66 | 23 | 0 | | | | | 89 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 67 | 23 | 70 | | | | | 160 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 23 | | | | | 70 |
| B | 72 | 0 | 8 | | | | | 80 |
| C | 34 | 9 | 0 | | | | | 43 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 105 | 57 | 31 | | | | | 193 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.93 | 23.9 | 5.97 | | | | | 51.8 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 295 | | | | | 334 |
| B | 357 | 0 | 20 | | | | | 377 |
| C | 434 | 159 | 0 | | | | | 593 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 791 | 199 | 315 | | | | | 1304 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 252 | | | | | 252 |
| B | 286 | 0 | 9 | | | | | 295 |
| C | 378 | 143 | 0 | | | | | 521 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 664 | 143 | 261 | | | | | 1068 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 22 | | | | | 22 |
| B | 25 | 0 | 10 | | | | | 35 |
| C | 32 | 15 | 0 | | | | | 47 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 15 | 33 | | | | | 104 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 16 | | | | | 32 |
| B | 18 | 0 | 1 | | | | | 19 |
| C | 21 | 2 | 0 | | | | | 23 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 18 | 17 | | | | | 74 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 4 | | | | | 28 |
| B | 28 | 0 | 0 | | | | | 28 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.65 | 23.85 | 3.98 | | | | | 57.48 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / Hollins Lane

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 359 | 468 | | | | | 826 |
| B | 189 | 0 | 57 | | | | | 246 |
| C | 678 | 62 | 0 | | | | | 739 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 867 | 420 | 525 | | | | | 1812 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 311 | 387 | | | | | 698 |
| B | 140 | 0 | 44 | | | | | 184 |
| C | 564 | 45 | 0 | | | | | 609 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 704 | 356 | 431 | | | | | 1491 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 52 | | | | | 92 |
| B | 32 | 0 | 7 | | | | | 39 |
| C | 66 | 9 | 0 | | | | | 74 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 98 | 49 | 59 | | | | | 205 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 28 | | | | | 33 |
| B | 12 | 0 | 0 | | | | | 13 |
| C | 48 | 2 | 0 | | | | | 50 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 61 | 6 | 29 | | | | | 95 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 155 | 495 | | | | | 649 |
| B | 146 | 0 | 43 | | | | | 188 |
| C | 480 | 54 | 0 | | | | | 534 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 626 | 209 | 537 | | | | | 1372 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 123 | 379 | | | | | 502 |
| B | 111 | 0 | 28 | | | | | 139 |
| C | 349 | 35 | 0 | | | | | 384 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 460 | 159 | 408 | | | | | 1026 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 64 | | | | | 87 |
| B | 23 | 0 | 8 | | | | | 31 |
| C | 73 | 12 | 0 | | | | | 85 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 96 | 35 | 72 | | | | | 203 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 52 | | | | | 58 |
| B | 7 | 0 | 1 | | | | | 8 |
| C | 58 | 1 | 0 | | | | | 59 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 66 | 7 | 52 | | | | | 124 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 4 | 7.98 | 6 | | | | | 17.98 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 268 | 548 | | | | | 815 |
| B | 126 | 0 | 37 | | | | | 163 |
| C | 593 | 51 | 0 | | | | | 644 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 719 | 318 | 585 | | | | | 1622 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 239 | 491 | | | | | 730 |
| B | 108 | 0 | 26 | | | | | 134 |
| C | 529 | 35 | 0 | | | | | 565 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 637 | 275 | 517 | | | | | 1428 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 40 | | | | | 62 |
| B | 10 | 0 | 5 | | | | | 14 |
| C | 40 | 9 | 0 | | | | | 49 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 32 | 45 | | | | | 125 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 18 | | | | | 19 |
| B | 7 | 0 | 0 | | | | | 7 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 2 | 18 | | | | | 51 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 9.9 | 5.97 | | | | | 17.86 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / A56 Manchester Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 602 | 565 | | | | | 1167 |
| B | 401 | 0 | 124 | | | | | 525 |
| C | 727 | 138 | 0 | | | | | 865 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1128 | 739 | 689 | | | | | 2557 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 511 | 460 | | | | | 971 |
| B | 335 | 0 | 97 | | | | | 431 |
| C | 643 | 98 | 0 | | | | | 740 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 977 | 609 | 557 | | | | | 2143 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 49 | 55 | | | | | 104 |
| B | 45 | 0 | 14 | | | | | 59 |
| C | 43 | 26 | 0 | | | | | 69 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 89 | 74 | 69 | | | | | 232 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 30 | | | | | 66 |
| B | 15 | 0 | 14 | | | | | 29 |
| C | 21 | 14 | 0 | | | | | 35 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 36 | 50 | 44 | | | | | 130 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 6 | 20 | | | | | 52 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 356 | 584 | | | | | 940 |
| B | 354 | 0 | 183 | | | | | 537 |
| C | 621 | 179 | 0 | | | | | 800 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 976 | 534 | 767 | | | | | 2277 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 263 | 462 | | | | | 725 |
| B | 275 | 0 | 132 | | | | | 408 |
| C | 488 | 122 | 0 | | | | | 610 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 763 | 384 | 595 | | | | | 1742 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 68 | | | | | 122 |
| B | 46 | 0 | 26 | | | | | 72 |
| C | 78 | 30 | 0 | | | | | 108 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 123 | 85 | 94 | | | | | 302 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 34 | | | | | 67 |
| B | 28 | 0 | 24 | | | | | 52 |
| C | 34 | 27 | 0 | | | | | 60 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 61 | 59 | 59 | | | | | 179 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.94 | 5.99 | 19.97 | | | | | 53.9 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 488 | 589 | | | | | 1077 |
| B | 471 | 0 | 114 | | | | | 585 |
| C | 751 | 156 | 0 | | | | | 907 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1222 | 644 | 704 | | | | | 2569 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 441 | 512 | | | | | 953 |
| B | 417 | 0 | 99 | | | | | 517 |
| C | 660 | 124 | 0 | | | | | 784 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1077 | 565 | 611 | | | | | 2254 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 49 | | | | | 75 |
| B | 34 | 0 | 11 | | | | | 45 |
| C | 60 | 23 | 0 | | | | | 83 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 49 | 60 | | | | | 203 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 8 | | | | | 23 |
| B | 14 | 0 | 4 | | | | | 18 |
| C | 11 | 10 | 0 | | | | | 21 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 24 | 24 | 13 | | | | | 61 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 25.67 | 5.98 | 19.95 | | | | | 51.6 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 26859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1199 | 3012 | 785 | | | | 4996 |
| B | 549 | 34 | 960 | 3918 | | | | 5461 |
| C | 2526 | 562 | 0 | 1790 | | | | 4878 |
| D | 1319 | 4572 | 2214 | 0 | | | | 8105 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4394 | 6367 | 6186 | 6493 | | | | 23440 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 858 | 2008 | 436 | | | | 3302 |
| B | 508 | 0 | 747 | 1975 | | | | 3230 |
| C | 1695 | 379 | 0 | 1075 | | | | 3149 |
| D | 691 | 2219 | 1342 | 0 | | | | 4252 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2894 | 3456 | 4097 | 3486 | | | | 13933 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 172 | 592 | 130 | | | | 894 |
| B | 41 | 2 | 64 | 658 | | | | 765 |
| C | 376 | 91 | 0 | 484 | | | | 951 |
| D | 329 | 833 | 474 | 0 | | | | 1636 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 746 | 1098 | 1130 | 1272 | | | | 4246 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 169 | 412 | 219 | | | | 800 |
| B | 0 | 32 | 149 | 1285 | | | | 1466 |
| C | 455 | 92 | 0 | 231 | | | | 778 |
| D | 299 | 1520 | 398 | 0 | | | | 2217 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 754 | 1813 | 959 | 1735 | | | | 5261 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 946 | 1658 | 925 | | | | 3529 |
| B | 519 | 64 | 471 | 4552 | | | | 5606 |
| C | 2019 | 220 | 0 | 1288 | | | | 3527 |
| D | 1251 | 4820 | 2005 | 0 | | | | 8076 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3789 | 6050 | 4134 | 6765 | | | | 20738 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 680 | 1010 | 378 | | | | 2068 |
| B | 505 | 1 | 349 | 2242 | | | | 3097 |
| C | 1333 | 142 | 0 | 646 | | | | 2121 |
| D | 491 | 2352 | 1079 | 0 | | | | 3922 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2329 | 3175 | 2438 | 3266 | | | | 11208 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 119 | 344 | 204 | | | | 667 |
| B | 14 | 1 | 70 | 880 | | | | 965 |
| C | 337 | 33 | 0 | 329 | | | | 699 |
| D | 285 | 876 | 403 | 0 | | | | 1564 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 636 | 1029 | 817 | 1413 | | | | 3895 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 147 | 304 | 343 | | | | 794 |
| B | 0 | 62 | 52 | 1430 | | | | 1544 |
| C | 349 | 45 | 0 | 313 | | | | 707 |
| D | 475 | 1592 | 523 | 0 | | | | 2590 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 824 | 1846 | 879 | 2086 | | | | 5635 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 950 | 2151 | 972 | | | | 4073 |
| B | 234 | 67 | 612 | 4487 | | | | 5400 |
| C | 3150 | 458 | 0 | 1363 | | | | 4971 |
| D | 1503 | 4383 | 2196 | 0 | | | | 8082 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4887 | 5858 | 4959 | 6822 | | | | 22526 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 859 | 1767 | 615 | | | | 3241 |
| B | 230 | 2 | 578 | 2942 | | | | 3752 |
| C | 2588 | 381 | 0 | 989 | | | | 3958 |
| D | 1041 | 2994 | 1567 | 0 | | | | 5602 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3859 | 4236 | 3912 | 4546 | | | | 16553 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 289 | 158 | | | | 522 |
| B | 4 | 2 | 21 | 623 | | | | 650 |
| C | 360 | 66 | 0 | 291 | | | | 717 |
| D | 233 | 586 | 364 | 0 | | | | 1183 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 597 | 729 | 674 | 1072 | | | | 3072 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 95 | 199 | | | | 310 |
| B | 0 | 63 | 13 | 922 | | | | 998 |
| C | 202 | 11 | 0 | 83 | | | | 296 |
| D | 229 | 803 | 265 | 0 | | | | 1297 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 431 | 893 | 373 | 1204 | | | | 2901 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | JTC 20 - A627 SB |
| B | 2727 | 2724 | 2723 | 2725 | JTC 20 - M62 WB |
| C | 2768 | 4932 | 4929 | 2767 | JTC 20 - A627 NB |
| D | 2719 | 2721 | 2722 | 2720 | JTC 20 - M62 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 173 | 832 | 651 | | | | 1656 |
| B | 193 | 0 | 820 | 4387 | | | | 5400 |
| C | 789 | 555 | 0 | 617 | | | | 1961 |
| D | 929 | 4513 | 1048 | 0 | | | | 6490 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1911 | 5241 | 2700 | 5655 | | | | 15507 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 130 | 675 | 390 | | | | 1195 |
| B | 167 | 0 | 626 | 2319 | | | | 3112 |
| C | 638 | 326 | 0 | 430 | | | | 1394 |
| D | 572 | 2215 | 702 | 0 | | | | 3489 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1377 | 2671 | 2003 | 3139 | | | | 9190 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 71 | 88 | | | | 178 |
| B | 23 | 0 | 95 | 664 | | | | 782 |
| C | 100 | 65 | 0 | 103 | | | | 268 |
| D | 123 | 786 | 197 | 0 | | | | 1106 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 246 | 870 | 363 | 855 | | | | 2334 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 86 | 173 | | | | 283 |
| B | 3 | 0 | 99 | 1404 | | | | 1506 |
| C | 51 | 164 | 0 | 84 | | | | 299 |
| D | 234 | 1512 | 149 | 0 | | | | 1895 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 288 | 1700 | 334 | 1661 | | | | 3983 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 110 | 666 | 599 | | | | 1375 |
| B | 235 | 0 | 731 | 4102 | | | | 5068 |
| C | 403 | 601 | 0 | 785 | | | | 1789 |
| D | 728 | 4807 | 682 | 0 | | | | 6217 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1366 | 5518 | 2079 | 5486 | | | | 14449 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 493 | 341 | | | | 897 |
| B | 88 | 0 | 327 | 2091 | | | | 2506 |
| C | 238 | 294 | 0 | 552 | | | | 1084 |
| D | 531 | 2239 | 491 | 0 | | | | 3261 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 857 | 2596 | 1311 | 2984 | | | | 7748 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 108 | 112 | | | | 230 |
| B | 16 | 0 | 132 | 656 | | | | 804 |
| C | 95 | 89 | 0 | 162 | | | | 346 |
| D | 122 | 785 | 146 | 0 | | | | 1053 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 233 | 884 | 386 | 930 | | | | 2433 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 65 | 146 | | | | 248 |
| B | 131 | 0 | 272 | 1355 | | | | 1758 |
| C | 70 | 218 | 0 | 71 | | | | 359 |
| D | 75 | 1783 | 45 | 0 | | | | 1903 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 276 | 2038 | 382 | 1572 | | | | 4268 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 147 | 845 | 866 | | | | 1858 |
| B | 138 | 0 | 765 | 3860 | | | | 4763 |
| C | 851 | 976 | 0 | 836 | | | | 2663 |
| D | 665 | 4614 | 871 | 0 | | | | 6150 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1654 | 5737 | 2481 | 5562 | | | | 15434 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 111 | 658 | 581 | | | | 1350 |
| B | 98 | 0 | 613 | 2491 | | | | 3202 |
| C | 760 | 774 | 0 | 670 | | | | 2204 |
| D | 570 | 3168 | 765 | 0 | | | | 4503 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1428 | 4053 | 2036 | 3742 | | | | 11259 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 101 | 111 | | | | 233 |
| B | 7 | 0 | 67 | 480 | | | | 554 |
| C | 78 | 98 | 0 | 106 | | | | 282 |
| D | 70 | 595 | 77 | 0 | | | | 742 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 155 | 714 | 245 | 697 | | | | 1811 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 86 | 174 | | | | 275 |
| B | 33 | 0 | 85 | 889 | | | | 1007 |
| C | 13 | 104 | 0 | 60 | | | | 177 |
| D | 25 | 851 | 29 | 0 | | | | 905 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 71 | 970 | 200 | 1123 | | | | 2364 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | JTC 21 - M60 SB |
| B | 14141 | 5666 | 5093 | 14141 | JTC 21 - A576 WB |
| C | 5668 | 5665 | 5667 | 5669 | JTC 21 - M60 NB |
| D | 3414 | 5096 | 5095 | 3414 | JTC 21 - A576 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 444 | 0 | 868 | | | | 1312 |
| B | 375 | 0 | 267 | 398 | | | | 1040 |
| C | 0 | 261 | 50 | 554 | | | | 865 |
| D | 633 | 151 | 513 | 0 | | | | 1297 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1008 | 856 | 830 | 1820 | | | | 4514 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 347 | 0 | 714 | | | | 1061 |
| B | 262 | 0 | 173 | 355 | | | | 790 |
| C | 0 | 185 | 43 | 470 | | | | 698 |
| D | 496 | 139 | 439 | 0 | | | | 1074 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 758 | 671 | 655 | 1539 | | | | 3623 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 60 | 0 | 68 | | | | 128 |
| B | 49 | 0 | 74 | 39 | | | | 162 |
| C | 0 | 37 | 7 | 62 | | | | 106 |
| D | 53 | 11 | 56 | 0 | | | | 120 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 102 | 108 | 137 | 169 | | | | 516 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 0 | 86 | | | | 123 |
| B | 64 | 0 | 20 | 4 | | | | 88 |
| C | 0 | 39 | 0 | 22 | | | | 61 |
| D | 84 | 1 | 18 | 0 | | | | 103 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 148 | 77 | 38 | 112 | | | | 375 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 303 | 0 | 587 | | | | 890 |
| B | 201 | 0 | 221 | 287 | | | | 709 |
| C | 0 | 278 | 4 | 470 | | | | 752 |
| D | 357 | 370 | 532 | 0 | | | | 1259 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 558 | 951 | 757 | 1344 | | | | 3610 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 205 | 0 | 455 | | | | 660 |
| B | 137 | 0 | 133 | 256 | | | | 526 |
| C | 0 | 157 | 4 | 373 | | | | 534 |
| D | 263 | 329 | 417 | 0 | | | | 1009 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 400 | 691 | 554 | 1084 | | | | 2729 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 65 | 0 | 80 | | | | 145 |
| B | 36 | 0 | 39 | 27 | | | | 102 |
| C | 0 | 67 | 0 | 64 | | | | 131 |
| D | 50 | 34 | 78 | 0 | | | | 162 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 86 | 166 | 117 | 171 | | | | 540 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 0 | 52 | | | | 85 |
| B | 28 | 0 | 49 | 4 | | | | 81 |
| C | 0 | 54 | 0 | 33 | | | | 87 |
| D | 44 | 7 | 37 | 0 | | | | 88 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 94 | 86 | 89 | | | | 341 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 279 | 0 | 760 | | | | 1039 |
| B | 202 | 0 | 147 | 438 | | | | 787 |
| C | 7 | 503 | 15 | 577 | | | | 1102 |
| D | 904 | 644 | 757 | 0 | | | | 2305 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1113 | 1426 | 919 | 1775 | | | | 5233 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 223 | 0 | 701 | | | | 924 |
| B | 171 | 0 | 119 | 404 | | | | 694 |
| C | 6 | 431 | 14 | 523 | | | | 974 |
| D | 801 | 594 | 693 | 0 | | | | 2088 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 978 | 1248 | 826 | 1628 | | | | 4680 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 33 | 0 | 41 | | | | 74 |
| B | 21 | 0 | 23 | 32 | | | | 76 |
| C | 1 | 56 | 1 | 54 | | | | 112 |
| D | 86 | 49 | 58 | 0 | | | | 193 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 108 | 138 | 82 | 127 | | | | 455 |

MODELLED — HGV

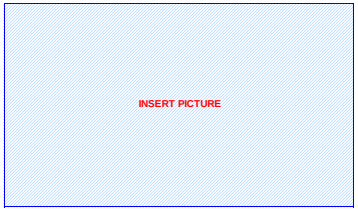
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 0 | 18 | | | | 41 |
| B | 10 | 0 | 5 | 2 | | | | 17 |
| C | 0 | 16 | 0 | 0 | | | | 16 |
| D | 17 | 1 | 6 | 0 | | | | 24 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 27 | 40 | 11 | 20 | | | | 98 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A576 Middleton Road / A6045 Heywood Old Road




***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 2 | 499 | | | | 517 |
| B | 41 | 0 | 3 | 546 | | | | 590 |
| C | 3 | 3 | 0 | 14 | | | | 20 |
| D | 293 | 570 | 7 | 0 | | | | 870 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 337 | 590 | 12 | 1058 | | | | 1998 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 9 | 1 | 376 | | | | 386 |
| B | 30 | 0 | 1 | 404 | | | | 436 |
| C | 2 | 2 | 0 | 10 | | | | 14 |
| D | 234 | 431 | 5 | 0 | | | | 670 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 266 | 441 | 8 | 791 | | | | 1506 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 0 | 93 | | | | 98 |
| B | 3 | 0 | 0 | 67 | | | | 70 |
| C | 0 | 1 | 0 | 3 | | | | 4 |
| D | 36 | 72 | 1 | 0 | | | | 109 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 78 | 2 | 162 | | | | 281 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 0 | 30 | | | | 33 |
| B | 8 | 0 | 1 | 57 | | | | 66 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 23 | 52 | 1 | 0 | | | | 76 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 55 | 3 | 87 | | | | 177 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 34 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 66 | 6 | 235 | | | | 308 |
| B | 79 | 0 | 4 | 484 | | | | 568 |
| C | 4 | 4 | 0 | 7 | | | | 16 |
| D | 372 | 590 | 7 | 0 | | | | 970 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 455 | 661 | 18 | 727 | | | | 1861 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 57 | 4 | 182 | | | | 243 |
| B | 47 | 0 | 3 | 338 | | | | 388 |
| C | 2 | 3 | 0 | 6 | | | | 11 |
| D | 270 | 416 | 6 | 0 | | | | 692 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 319 | 475 | 13 | 526 | | | | 1333 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 1 | 33 | | | | 39 |
| B | 8 | 0 | 1 | 69 | | | | 78 |
| C | 1 | 1 | 0 | 1 | | | | 3 |
| D | 65 | 100 | 1 | 0 | | | | 166 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 75 | 106 | 3 | 102 | | | | 286 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 1 | 20 | | | | 25 |
| B | 24 | 0 | 1 | 59 | | | | 84 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 37 | 57 | 1 | 0 | | | | 94 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 61 | 62 | 2 | 80 | | | | 206 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.91 | 0 | 17.98 | | | | 35.89 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 2 | 318 | | | | 381 |
| B | 108 | 0 | 4 | 478 | | | | 589 |
| C | 3 | 4 | 0 | 5 | | | | 12 |
| D | 671 | 763 | 9 | 0 | | | | 1444 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 781 | 828 | 15 | 801 | | | | 2426 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 57 | 2 | 284 | | | | 343 |
| B | 102 | 0 | 3 | 406 | | | | 511 |
| C | 2 | 3 | 0 | 3 | | | | 9 |
| D | 595 | 645 | 7 | 0 | | | | 1248 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 699 | 706 | 12 | 694 | | | | 2110 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 0 | 29 | | | | 32 |
| B | 5 | 0 | 0 | 46 | | | | 51 |
| C | 0 | 0 | 0 | 1 | | | | 2 |
| D | 62 | 76 | 1 | 0 | | | | 138 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 67 | 79 | 1 | 75 | | | | 223 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 0 | 5 | | | | 6 |
| B | 1 | 0 | 0 | 11 | | | | 12 |
| C | 0 | 1 | 0 | 1 | | | | 1 |
| D | 14 | 25 | 1 | 0 | | | | 40 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 15 | 26 | 1 | 17 | | | | 59 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.52 | 0 | 15.83 | | | | 33.35 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS1a_2039_AM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 892 | | | | | 942 |
| B | 0 | 0 | 1064 | | | | | 1064 |
| C | 1651 | 652 | 0 | | | | | 2302 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1651 | 702 | 1956 | | | | | 4308 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 37 | 649 | | | | | 687 |
| B | 0 | 0 | 794 | | | | | 794 |
| C | 1258 | 498 | 0 | | | | | 1756 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1258 | 535 | 1443 | | | | | 3236 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 98 | | | | | 105 |
| B | 0 | 0 | 182 | | | | | 182 |
| C | 153 | 98 | 0 | | | | | 251 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 153 | 105 | 280 | | | | | 538 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 115 | | | | | 121 |
| B | 0 | 0 | 88 | | | | | 88 |
| C | 208 | 56 | 0 | | | | | 264 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 208 | 62 | 203 | | | | | 473 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 0 | 30 | | | | | 61 |

### Model_2_Heywood_DS1a_2039_IP_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 845 | | | | | 845 |
| B | 0 | 0 | 930 | | | | | 930 |
| C | 1318 | 577 | 0 | | | | | 1895 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1318 | 577 | 1775 | | | | | 3670 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 603 | | | | | 603 |
| B | 0 | 0 | 634 | | | | | 634 |
| C | 943 | 383 | 0 | | | | | 1326 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 943 | 383 | 1237 | | | | | 2562 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 95 | | | | | 95 |
| B | 0 | 0 | 173 | | | | | 173 |
| C | 170 | 120 | 0 | | | | | 290 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 170 | 120 | 267 | | | | | 557 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 118 | | | | | 118 |
| B | 0 | 0 | 123 | | | | | 123 |
| C | 173 | 74 | 0 | | | | | 247 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 173 | 74 | 241 | | | | | 488 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.78 | 0 | 29.88 | | | | | 61.66 |

### Model_3_Heywood_DS1a_2039_PM_22.3_PolicyOn.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 934 | | | | | 938 |
| B | 0 | 0 | 962 | | | | | 962 |
| C | 1556 | 701 | 0 | | | | | 2257 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1556 | 705 | 1896 | | | | | 4157 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 841 | | | | | 843 |
| B | 0 | 0 | 867 | | | | | 867 |
| C | 1382 | 595 | 0 | | | | | 1976 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1382 | 597 | 1708 | | | | | 3686 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 47 | | | | | 48 |
| B | 0 | 0 | 71 | | | | | 71 |
| C | 102 | 72 | 0 | | | | | 174 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 102 | 73 | 118 | | | | | 293 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 18 | | | | | 19 |
| B | 0 | 0 | 24 | | | | | 24 |
| C | 44 | 34 | 0 | | | | | 78 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 44 | 35 | 43 | | | | | 122 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.2 | 0 | 27.37 | | | | | 56.57 |

## Run 25 - 2039 Do Something 3 - S.6 – Overall Future Vision

- Policy On ( Vision-Led)
- including all of the JPA1.1 Allocation Site & all of the JPA1.2 Allocation Site
- including the M62 Access solution
- including Common Highway Mitigation Package and J18 DCO works
- Whittle Lane closed (public transport only) and South Heywood Link connection provided.

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J19

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 14052 | 60054 | 60054 | 14052 | 1 - Middleton Road A6 |
| B | 2720 | 4922 | 4921 | 2719 | JTC1-M62 East |
| C | 60069 | 60056 | 60056 | 60069 | TC1-A6046 Hollin Lan |
| D | 60124 | 4924 | 4924 | 60124 | M62 J19 and Birch |
| E | 60057 | 60011 | 4924 | 2718 | C1-M62 WC1-M62 West |
| F | 60001 | 60013 | 60013 | 60001 | Queen Eli Queen Elizabe |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 239 | 245 | 499 | 0 | 4 | | 987 |
| B | 229 | 0 | 130 | 0 | 0 | 354 | | 713 |
| C | 240 | 74 | 0 | 295 | 0 | 118 | | 727 |
| D | 133 | 0 | 88 | 0 | 0 | 21 | | 242 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 4 | 319 | 121 | 129 | 0 | 0 | | 573 |
| G | | | | | | | | |
| TOTAL | 606 | 632 | 584 | 923 | 0 | 497 | | 3242 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 181 | 194 | 369 | 0 | 4 | | 748 |
| B | 158 | 0 | 47 | 0 | 0 | 225 | | 430 |
| C | 200 | 52 | 0 | 214 | 0 | 82 | | 548 |
| D | 81 | 0 | 34 | 0 | 0 | 13 | | 128 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 3 | 240 | 90 | 104 | 0 | 0 | | 437 |
| G | | | | | | | | |
| TOTAL | 442 | 473 | 365 | 687 | 0 | 324 | | 2291 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 47 | 52 | 0 | 0 | | 150 |
| B | 35 | 0 | 51 | 0 | 0 | 62 | | 148 |
| C | 36 | 4 | 0 | 51 | 0 | 33 | | 124 |
| D | 34 | 0 | 15 | 0 | 0 | 4 | | 53 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 1 | 25 | 13 | 20 | 0 | 0 | | 59 |
| G | | | | | | | | |
| TOTAL | 106 | 80 | 126 | 123 | 0 | 99 | | 534 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 4 | 78 | 0 | 0 | | 89 |
| B | 36 | 0 | 32 | 0 | 0 | 67 | | 135 |
| C | 4 | 18 | 0 | 30 | 0 | 3 | | 55 |
| D | 18 | 0 | 39 | 0 | 0 | 4 | | 61 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 0 | 54 | 18 | 5 | 0 | 0 | | 77 |
| G | | | | | | | | |
| TOTAL | 58 | 79 | 93 | 113 | 0 | 74 | | 417 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 206 | 254 | 237 | 0 | 0 | | 697 |
| B | 157 | 0 | 77 | 0 | 0 | 131 | | 365 |
| C | 173 | 145 | 0 | 258 | 0 | 106 | | 682 |
| D | 109 | 0 | 109 | 0 | 0 | 11 | | 229 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 24 | 160 | 86 | 5 | 0 | 0 | | 275 |
| G | | | | | | | | |
| TOTAL | 463 | 511 | 526 | 500 | 0 | 248 | | 2248 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 147 | 222 | 144 | 0 | 0 | | 513 |
| B | 95 | 0 | 58 | 0 | 0 | 78 | | 231 |
| C | 140 | 91 | 0 | 138 | 0 | 90 | | 459 |
| D | 33 | 0 | 40 | 0 | 0 | 6 | | 79 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 16 | 50 | 63 | 2 | 0 | 0 | | 131 |
| G | | | | | | | | |
| TOTAL | 284 | 288 | 383 | 284 | 0 | 174 | | 1413 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 24 | 51 | 0 | 0 | | 118 |
| B | 33 | 0 | 13 | 0 | 0 | 9 | | 55 |
| C | 23 | 17 | 0 | 62 | 0 | 12 | | 114 |
| D | 39 | 0 | 33 | 0 | 0 | 2 | | 74 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 7 | 25 | 13 | 1 | 0 | 0 | | 46 |
| G | | | | | | | | |
| TOTAL | 102 | 85 | 83 | 114 | 0 | 23 | | 407 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 8 | 42 | 0 | 0 | | 66 |
| B | 29 | 0 | 6 | 0 | 0 | 44 | | 79 |
| C | 10 | 37 | 0 | 58 | 0 | 4 | | 109 |
| D | 37 | 0 | 36 | 0 | 0 | 3 | | 76 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 1 | 85 | 10 | 2 | 0 | 0 | | 98 |
| G | | | | | | | | |
| TOTAL | 77 | 138 | 60 | 102 | 0 | 51 | | 428 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 247 | 238 | 343 | 0 | 0 | | 828 |
| B | 191 | 0 | 199 | 0 | 0 | 210 | | 600 |
| C | 290 | 76 | 0 | 294 | 0 | 116 | | 776 |
| D | 135 | 0 | 92 | 0 | 0 | 57 | | 284 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 53 | 219 | 162 | 5 | 0 | 0 | | 439 |
| G | | | | | | | | |
| TOTAL | 669 | 542 | 691 | 642 | 0 | 383 | | 2927 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 205 | 219 | 315 | 0 | 0 | | 739 |
| B | 145 | 0 | 168 | 0 | 0 | 149 | | 462 |
| C | 273 | 65 | 0 | 232 | 0 | 109 | | 679 |
| D | 107 | 0 | 62 | 0 | 0 | 47 | | 216 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 50 | 177 | 137 | 4 | 0 | 0 | | 368 |
| G | | | | | | | | |
| TOTAL | 575 | 447 | 586 | 551 | 0 | 305 | | 2464 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 16 | 19 | 0 | 0 | | 65 |
| B | 29 | 0 | 27 | 0 | 0 | 22 | | 78 |
| C | 16 | 11 | 0 | 31 | 0 | 7 | | 65 |
| D | 12 | 0 | 17 | 0 | 0 | 7 | | 36 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 3 | 17 | 12 | 0 | 0 | 0 | | 32 |
| G | | | | | | | | |
| TOTAL | 60 | 58 | 72 | 50 | 0 | 36 | | 276 |

MODELLED — HGV

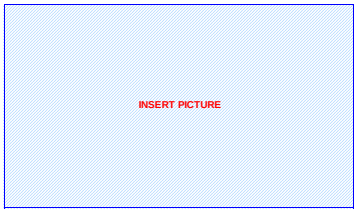
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 3 | 9 | 0 | 0 | | 24 |
| B | 17 | 0 | 4 | 0 | 0 | 39 | | 60 |
| C | 1 | 0 | 0 | 31 | 0 | 0 | | 32 |
| D | 16 | 0 | 13 | 0 | 0 | 3 | | 32 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| F | 0 | 25 | 13 | 1 | 0 | 0 | | 39 |
| G | | | | | | | | |
| TOTAL | 34 | 37 | 33 | 41 | 0 | 42 | | 187 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60060 | 60010 | 60010 | 60060 | 045 Manchester Road |
| B | 60003 | 60010 | 60010 | 60003 | d Queen Elizabeth Wa |
| C | 2814 | 60010 | 60010 | 2814 | 045 Manchester Road |
| D | 60008 | 60010 | 60010 | 60008 | d Queen Elizabeth Wa |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 214 | 168 | 115 | | | | 496 |
| B | 61 | 0 | 74 | 362 | | | | 498 |
| C | 294 | 89 | 0 | 118 | | | | 501 |
| D | 62 | 271 | 30 | 0 | | | | 363 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 417 | 574 | 272 | 595 | | | | 1859 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 170 | 148 | 97 | | | | 415 |
| B | 37 | 0 | 51 | 235 | | | | 323 |
| C | 258 | 85 | 0 | 110 | | | | 452 |
| D | 42 | 182 | 26 | 0 | | | | 250 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 337 | 437 | 225 | 441 | | | | 1441 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 10 | 16 | | | | 57 |
| B | 11 | 0 | 22 | 67 | | | | 100 |
| C | 20 | 3 | 0 | 5 | | | | 28 |
| D | 9 | 26 | 3 | 0 | | | | 38 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 60 | 36 | 88 | | | | 224 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 7 | 3 | | | | 22 |
| B | 13 | 0 | 2 | 60 | | | | 74 |
| C | 16 | 2 | 0 | 3 | | | | 21 |
| D | 11 | 63 | 1 | 0 | | | | 75 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 77 | 9 | 66 | | | | 192 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 0 | | | | 2 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 207 | 61 | | | | 298 |
| B | 96 | 0 | 17 | 136 | | | | 250 |
| C | 318 | 44 | 0 | 23 | | | | 385 |
| D | 66 | 202 | 27 | 0 | | | | 294 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 480 | 275 | 251 | 220 | | | | 1226 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 165 | 41 | | | | 224 |
| B | 88 | 0 | 14 | 73 | | | | 174 |
| C | 249 | 29 | 0 | 16 | | | | 294 |
| D | 44 | 85 | 25 | 0 | | | | 153 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 381 | 131 | 204 | 130 | | | | 846 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 21 | 10 | | | | 35 |
| B | 3 | 0 | 3 | 18 | | | | 24 |
| C | 34 | 11 | 0 | 3 | | | | 48 |
| D | 15 | 31 | 2 | 0 | | | | 48 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 53 | 46 | 25 | 30 | | | | 154 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 19 | 10 | | | | 37 |
| B | 5 | 0 | 0 | 46 | | | | 51 |
| C | 32 | 4 | 0 | 5 | | | | 41 |
| D | 7 | 86 | 0 | 0 | | | | 93 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 44 | 98 | 20 | 60 | | | | 223 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 0 | 1.99 | 0 | | | | 3.98 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 240 | 42 | | | | 313 |
| B | 88 | 0 | 80 | 217 | | | | 385 |
| C | 434 | 141 | 0 | 31 | | | | 605 |
| D | 111 | 268 | 49 | 0 | | | | 428 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 633 | 439 | 369 | 289 | | | | 1731 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 223 | 27 | | | | 272 |
| B | 73 | 0 | 65 | 168 | | | | 307 |
| C | 384 | 128 | 0 | 28 | | | | 540 |
| D | 91 | 218 | 47 | 0 | | | | 357 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 549 | 368 | 335 | 224 | | | | 1475 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 13 | 8 | | | | 22 |
| B | 9 | 0 | 13 | 14 | | | | 36 |
| C | 34 | 12 | 0 | 1 | | | | 47 |
| D | 7 | 18 | 1 | 0 | | | | 27 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 33 | 27 | 22 | | | | 132 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 3 | 7 | | | | 16 |
| B | 6 | 0 | 2 | 35 | | | | 43 |
| C | 15 | 0 | 0 | 2 | | | | 17 |
| D | 12 | 32 | 0 | 0 | | | | 44 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 33 | 39 | 5 | 43 | | | | 120 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | 0 | | | | 2 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 2 | 0 | 0 | 0 | | | | 2 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.96 | 0 | 1.99 | 0 | | | | 3.95 |

***Junction Turning Flows, Units: PCUs Demand Flows***

***Junction:***

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | | | | | |
| B | | | | | |
| C | | | | | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |

Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |

Model_1_Heywood_DS1b_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | | | | | | | | |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |

0 0 0 0

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Hill Top Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60058 | 60031 | 60031 | 60058 | rehills Rd EB |
| B | 60036 | 60031 | 60031 | 60036 | ill Top Road |
| C | 60230 | 7454 | 7454 | 60230 | rehills Rd SB |
| D | 60200 | 7454 | 7454 | 60200 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 140 | 338 | 216 | | | | 694 |
| B | 58 | 0 | 12 | 41 | | | | 111 |
| C | 507 | 61 | 0 | 28 | | | | 596 |
| D | 194 | 27 | 14 | 0 | | | | 235 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 759 | 228 | 364 | 285 | | | | 1636 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 85 | 246 | 145 | | | | 476 |
| B | 12 | 0 | 3 | 4 | | | | 19 |
| C | 367 | 51 | 0 | 22 | | | | 440 |
| D | 93 | 11 | 2 | 0 | | | | 106 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 472 | 147 | 251 | 171 | | | | 1041 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 36 | 27 | | | | 70 |
| B | 3 | 0 | 0 | 4 | | | | 7 |
| C | 81 | 4 | 0 | 4 | | | | 89 |
| D | 24 | 0 | 2 | 0 | | | | 26 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 108 | 11 | 38 | 35 | | | | 192 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 56 | 44 | | | | 148 |
| B | 43 | 0 | 9 | 33 | | | | 85 |
| C | 59 | 6 | 0 | 2 | | | | 67 |
| D | 77 | 16 | 10 | 0 | | | | 103 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 179 | 70 | 75 | 79 | | | | 403 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 67 | 265 | 144 | | | | 476 |
| B | 86 | 0 | 23 | 38 | | | | 147 |
| C | 173 | 31 | 0 | 16 | | | | 220 |
| D | 192 | 31 | 5 | 0 | | | | 228 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 451 | 129 | 293 | 198 | | | | 1071 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 137 | 71 | | | | 234 |
| B | 37 | 0 | 14 | 12 | | | | 63 |
| C | 112 | 14 | 0 | 4 | | | | 130 |
| D | 65 | 4 | 1 | 0 | | | | 70 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 214 | 44 | 152 | 87 | | | | 497 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 42 | 21 | | | | 70 |
| B | 10 | 0 | 5 | 4 | | | | 19 |
| C | 22 | 6 | 0 | 2 | | | | 30 |
| D | 28 | 3 | 1 | 0 | | | | 32 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 60 | 16 | 48 | 27 | | | | 151 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 34 | 86 | 52 | | | | 172 |
| B | 39 | 0 | 4 | 22 | | | | 65 |
| C | 39 | 11 | 0 | 10 | | | | 60 |
| D | 99 | 24 | 3 | 0 | | | | 126 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 177 | 69 | 93 | 84 | | | | 423 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 340 | 133 | | | | 524 |
| B | 108 | 0 | 50 | 31 | | | | 189 |
| C | 252 | 26 | 0 | 10 | | | | 288 |
| D | 262 | 11 | 39 | 0 | | | | 312 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 622 | 88 | 429 | 174 | | | | 1313 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 296 | 93 | | | | 411 |
| B | 88 | 0 | 34 | 24 | | | | 146 |
| C | 200 | 19 | 0 | 3 | | | | 222 |
| D | 201 | 4 | 28 | 0 | | | | 233 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 489 | 45 | 358 | 120 | | | | 1012 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 18 | 8 | | | | 28 |
| B | 2 | 0 | 6 | 1 | | | | 9 |
| C | 20 | 1 | 0 | 1 | | | | 22 |
| D | 20 | 0 | 2 | 0 | | | | 22 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 42 | 3 | 26 | 10 | | | | 81 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 26 | 32 | | | | 85 |
| B | 18 | 0 | 10 | 6 | | | | 34 |
| C | 32 | 6 | 0 | 6 | | | | 44 |
| D | 41 | 7 | 9 | 0 | | | | 57 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 91 | 40 | 45 | 44 | | | | 220 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hareshill Road / Pilsworth Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7459 | 2813 | 2813 | 7459 | *Pilsworth Rd NB* |
| B | 60028 | 2813 | 2813 | 60028 | *Hareshill Road* |
| C | 60058 | 2813 | 2813 | 60058 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 151 | 312 | | | | | 463 |
| B | 252 | 0 | 382 | | | | | 633 |
| C | 474 | 284 | 0 | | | | | 758 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 726 | 435 | 694 | | | | | 1855 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 109 | 204 | | | | | 314 |
| B | 210 | 0 | 272 | | | | | 482 |
| C | 265 | 207 | 0 | | | | | 472 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 475 | 317 | 476 | | | | | 1267 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 23 | | | | | 35 |
| B | 19 | 0 | 48 | | | | | 66 |
| C | 69 | 38 | 0 | | | | | 107 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 88 | 50 | 70 | | | | | 209 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 29 | 85 | | | | | 115 |
| B | 23 | 0 | 62 | | | | | 86 |
| C | 140 | 39 | 0 | | | | | 179 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 163 | 68 | 148 | | | | | 379 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 215 | 265 | | | | | 480 |
| B | 89 | 0 | 211 | | | | | 300 |
| C | 267 | 184 | 0 | | | | | 451 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 356 | 399 | 476 | | | | | 1231 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 137 | 122 | | | | | 259 |
| B | 62 | 0 | 114 | | | | | 176 |
| C | 105 | 108 | 0 | | | | | 213 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 168 | 244 | 235 | | | | | 647 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 38 | | | | | 70 |
| B | 10 | 0 | 31 | | | | | 41 |
| C | 30 | 30 | 0 | | | | | 60 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 39 | 62 | 69 | | | | | 170 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 105 | | | | | 152 |
| B | 17 | 0 | 67 | | | | | 84 |
| C | 132 | 46 | 0 | | | | | 178 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 150 | 93 | 172 | | | | | 414 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 304 | 317 | | | | | 621 |
| B | 87 | 0 | 205 | | | | | 292 |
| C | 280 | 344 | 0 | | | | | 625 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 367 | 648 | 522 | | | | | 1537 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 266 | 259 | | | | | 524 |
| B | 77 | 0 | 151 | | | | | 229 |
| C | 185 | 305 | 0 | | | | | 490 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 263 | 571 | 410 | | | | | 1244 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 14 | | | | | 34 |
| B | 2 | 0 | 14 | | | | | 16 |
| C | 15 | 27 | 0 | | | | | 43 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 18 | 48 | 28 | | | | | 94 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 44 | | | | | 62 |
| B | 7 | 0 | 40 | | | | | 47 |
| C | 80 | 12 | 0 | | | | | 91 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 87 | 29 | 84 | | | | | 200 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Pilsworth Road / A58 Bury St

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6927 | 2036 | 2036 | 6927 | *Bridge Street EB* |
| B | 2476 | 2036 | 2036 | 2476 | *Bridge Street WB* |
| C | 7452 | 2036 | 2036 | 7452 | *Pilsworth Rd* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 469 | 128 | | | | | 598 |
| B | 533 | 0 | 435 | | | | | 968 |
| C | 125 | 305 | 0 | | | | | 430 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 658 | 774 | 563 | | | | | 1995 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 342 | 103 | | | | | 445 |
| B | 366 | 0 | 318 | | | | | 684 |
| C | 101 | 225 | 0 | | | | | 326 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 467 | 567 | 421 | | | | | 1455 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 77 | 14 | | | | | 91 |
| B | 87 | 0 | 35 | | | | | 122 |
| C | 16 | 27 | 0 | | | | | 44 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 104 | 48 | | | | | 257 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 12 | | | | | 52 |
| B | 70 | 0 | 63 | | | | | 133 |
| C | 7 | 35 | 0 | | | | | 42 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 77 | 75 | 74 | | | | | 226 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 29 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 10 | 28 | 20 | | | | | 57 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 495 | 78 | | | | | 573 |
| B | 460 | 0 | 263 | | | | | 723 |
| C | 91 | 291 | 0 | | | | | 382 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 551 | 786 | 341 | | | | | 1678 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 366 | 48 | | | | | 414 |
| B | 330 | 0 | 176 | | | | | 506 |
| C | 73 | 192 | 0 | | | | | 264 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 402 | 558 | 225 | | | | | 1185 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 10 | | | | | 68 |
| B | 70 | 0 | 30 | | | | | 100 |
| C | 11 | 33 | 0 | | | | | 44 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 81 | 92 | 39 | | | | | 212 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 61 | 20 | | | | | 81 |
| B | 50 | 0 | 37 | | | | | 87 |
| C | 7 | 48 | 0 | | | | | 55 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 109 | 57 | | | | | 223 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 0 | | | | | 10 |
| B | 10 | 0 | 20 | | | | | 30 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 9.95 | 27.93 | 19.9 | | | | | 57.78 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 553 | 54 | | | | | 608 |
| B | 507 | 0 | 301 | | | | | 809 |
| C | 172 | 310 | 0 | | | | | 482 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 680 | 863 | 356 | | | | | 1899 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 506 | 40 | | | | | 547 |
| B | 448 | 0 | 233 | | | | | 681 |
| C | 163 | 267 | 0 | | | | | 429 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 611 | 773 | 274 | | | | | 1657 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 5 | | | | | 38 |
| B | 39 | 0 | 24 | | | | | 62 |
| C | 9 | 21 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 48 | 54 | 29 | | | | | 130 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 8 | | | | | 16 |
| B | 13 | 0 | 25 | | | | | 37 |
| C | 1 | 4 | 0 | | | | | 5 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 14 | 11 | 33 | | | | | 58 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 0 | | | | | 8 |
| B | 8 | 0 | 20 | | | | | 28 |
| C | 0 | 18 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 7.94 | 25.86 | 19.85 | | | | | 53.65 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Pilsworth Road / Heywood Distribution Centre**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 7459 | 7459 | 60026 | *Pilsworth Rd NB* |
| B | 20430 | 7459 | 7459 | 20430 | *ywood Distribution Cer* |
| C | 2813 | 7459 | 7459 | 2813 | *Pilsworth Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 172 | 381 | | | | | 554 |
| B | 81 | 0 | 82 | | | | | 163 |
| C | 517 | 208 | 0 | | | | | 726 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 598 | 381 | 463 | | | | | 1442 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 130 | 296 | | | | | 426 |
| B | 15 | 0 | 18 | | | | | 33 |
| C | 380 | 94 | 0 | | | | | 475 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 395 | 224 | 314 | | | | | 933 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 28 | | | | | 40 |
| B | 12 | 0 | 7 | | | | | 19 |
| C | 75 | 13 | 0 | | | | | 88 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 87 | 26 | 35 | | | | | 147 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 57 | | | | | 87 |
| B | 54 | 0 | 57 | | | | | 111 |
| C | 62 | 101 | 0 | | | | | 163 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 116 | 131 | 115 | | | | | 362 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 364 | | | | | 422 |
| B | 123 | 0 | 116 | | | | | 238 |
| C | 199 | 157 | 0 | | | | | 356 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 321 | 215 | 480 | | | | | 1017 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 204 | | | | | 240 |
| B | 48 | 0 | 54 | | | | | 102 |
| C | 127 | 41 | 0 | | | | | 168 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 175 | 76 | 259 | | | | | 510 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 56 | | | | | 65 |
| B | 18 | 0 | 14 | | | | | 32 |
| C | 22 | 17 | 0 | | | | | 39 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 27 | 70 | | | | | 136 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 105 | | | | | 118 |
| B | 57 | 0 | 47 | | | | | 104 |
| C | 50 | 99 | 0 | | | | | 150 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 107 | 112 | 152 | | | | | 371 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 519 | | | | | 544 |
| B | 144 | 0 | 102 | | | | | 245 |
| C | 274 | 93 | 0 | | | | | 367 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 418 | 117 | 621 | | | | | 1156 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 446 | | | | | 461 |
| B | 113 | 0 | 78 | | | | | 192 |
| C | 231 | 31 | 0 | | | | | 263 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 345 | 46 | 524 | | | | | 915 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 31 | | | | | 32 |
| B | 9 | 0 | 3 | | | | | 12 |
| C | 12 | 6 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 21 | 7 | 34 | | | | | 62 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 42 | | | | | 50 |
| B | 21 | 0 | 20 | | | | | 42 |
| C | 31 | 56 | 0 | | | | | 87 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 52 | 64 | 62 | | | | | 178 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **Pilsworth Road / JPA1.1 & SHDA employment**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60026 | 60229 | 60229 | 60026 | *Pilsworth Rd SB* |
| B | 60027 | 60229 | 60229 | 60027 | *SHDA* |
| C | 60024 | 60229 | 60229 | 60024 | *Pilsworth Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 596 | | | | | 598 |
| B | 0 | 0 | 2 | | | | | 2 |
| C | 553 | 0 | 0 | | | | | 554 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 554 | 3 | 597 | | | | | 1154 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 393 | | | | | 395 |
| B | 0 | 0 | 2 | | | | | 2 |
| C | 425 | 0 | 0 | | | | | 426 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 426 | 3 | 395 | | | | | 823 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 87 | | | | | 87 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 40 | 0 | 0 | | | | | 40 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 0 | 87 | | | | | 127 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 116 | | | | | 116 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 87 | 0 | 0 | | | | | 87 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 87 | 0 | 116 | | | | | 203 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 321 | | | | | 322 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 422 | 0 | 0 | | | | | 423 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 422 | 1 | 322 | | | | | 745 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 175 | | | | | 175 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 239 | 0 | 0 | | | | | 240 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 240 | 1 | 175 | | | | | 415 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 40 | | | | | 40 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 65 | 0 | 0 | | | | | 65 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 65 | 0 | 40 | | | | | 105 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 107 | | | | | 107 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 118 | 0 | 0 | | | | | 118 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 118 | 0 | 107 | | | | | 225 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 417 | | | | | 418 |
| B | 1 | 0 | 1 | | | | | 2 |
| C | 543 | 2 | 0 | | | | | 544 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 544 | 3 | 418 | | | | | 964 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 344 | | | | | 345 |
| B | 1 | 0 | 1 | | | | | 2 |
| C | 460 | 2 | 0 | | | | | 462 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 461 | 3 | 345 | | | | | 809 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 21 | | | | | 21 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 0 | 21 | | | | | 54 |

MODELLED — HGV

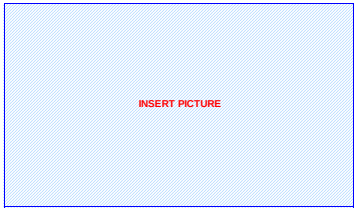
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 52 | | | | | 52 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 50 | 0 | 0 | | | | | 50 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 0 | 52 | | | | | 102 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | | | | | 0 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** 3 Arrows (Pilsworth Road / Moss Hall Road - South)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60244 | 2037 | 2037 | 60244 | *Pilsworth Rd WB* |
| B | 60234 | 2037 | 2037 | 60234 | *Moss Hall Rd NB* |
| C | 60241 | 2037 | 2037 | 60241 | *Link Road* |
| D | 7460 | 2037 | 2037 | 7460 | *Moss Hall Rd SB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 105 | 478 | 15 | | | | 597 |
| B | 28 | 0 | 340 | 0 | | | | 368 |
| C | 523 | 860 | 0 | 17 | | | | 1400 |
| D | 3 | 1 | 13 | 0 | | | | 17 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 554 | 965 | 831 | 32 | | | | 2382 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 70 | 316 | 9 | | | | 395 |
| B | 3 | 0 | 74 | 0 | | | | 77 |
| C | 422 | 378 | 0 | 5 | | | | 806 |
| D | 1 | 1 | 1 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 426 | 449 | 391 | 15 | | | | 1280 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 13 | 72 | 2 | | | | 87 |
| B | 6 | 0 | 89 | 0 | | | | 95 |
| C | 35 | 134 | 0 | 3 | | | | 172 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 40 | 147 | 161 | 5 | | | | 353 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 90 | 4 | | | | 116 |
| B | 19 | 0 | 178 | 0 | | | | 197 |
| C | 66 | 347 | 0 | 8 | | | | 422 |
| D | 2 | 0 | 12 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 87 | 369 | 280 | 12 | | | | 749 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 48 | 271 | 2 | | | | 322 |
| B | 54 | 0 | 547 | 1 | | | | 601 |
| C | 358 | 455 | 0 | 22 | | | | 835 |
| D | 10 | 1 | 17 | 0 | | | | 28 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 423 | 504 | 835 | 25 | | | | 1786 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 157 | 2 | | | | 175 |
| B | 17 | 0 | 255 | 0 | | | | 273 |
| C | 221 | 171 | 0 | 2 | | | | 394 |
| D | 2 | 0 | 5 | 0 | | | | 7 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 240 | 187 | 418 | 4 | | | | 849 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 27 | 1 | | | | 40 |
| B | 14 | 0 | 122 | 0 | | | | 136 |
| C | 50 | 122 | 0 | 2 | | | | 173 |
| D | 2 | 0 | 1 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 65 | 134 | 150 | 3 | | | | 352 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 20 | 87 | 0 | | | | 107 |
| B | 24 | 0 | 169 | 0 | | | | 192 |
| C | 88 | 162 | 0 | 18 | | | | 268 |
| D | 6 | 0 | 11 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 118 | 183 | 267 | 18 | | | | 585 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 18 | 388 | 12 | | | | 418 |
| B | 82 | 0 | 715 | 1 | | | | 798 |
| C | 454 | 357 | 0 | 16 | | | | 828 |
| D | 8 | 1 | 11 | 0 | | | | 20 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 544 | 376 | 1114 | 30 | | | | 2064 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 330 | 7 | | | | 345 |
| B | 57 | 0 | 566 | 1 | | | | 625 |
| C | 398 | 263 | 0 | 10 | | | | 671 |
| D | 7 | 1 | 8 | 0 | | | | 15 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 462 | 272 | 904 | 19 | | | | 1656 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 18 | 0 | | | | 21 |
| B | 6 | 0 | 63 | 0 | | | | 69 |
| C | 25 | 24 | 0 | 1 | | | | 50 |
| D | 1 | 0 | 2 | 0 | | | | 3 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 27 | 83 | 1 | | | | 143 |

MODELLED — HGV

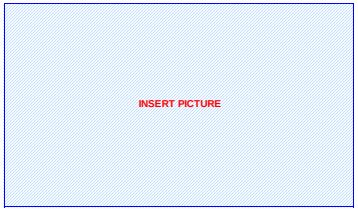
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 40 | 5 | | | | 52 |
| B | 19 | 0 | 85 | 0 | | | | 104 |
| C | 31 | 70 | 0 | 5 | | | | 106 |
| D | 0 | 0 | 2 | 0 | | | | 2 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 77 | 127 | 10 | | | | 264 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 0 | | | | 0 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 0 | 0 | 0 | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Fowler Welch (Pilsworth Road / Moss Hall Road - North)




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60241 | 60246 | 60246 | 60241 | *Moss Hall Rd NB* |
| B | 60000 | 60213 | 60213 | 60000 | *Pilsworth Road* |
| C | 60228 | 2038 | 2038 | 60228 | *Moss Hall Rd SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 719 | 113 | | | | | 832 |
| B | 1014 | 0 | 107 | | | | | 1121 |
| C | 387 | 43 | 0 | | | | | 430 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1401 | 762 | 220 | | | | | 2383 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 359 | 32 | | | | | 391 |
| B | 616 | 0 | 83 | | | | | 699 |
| C | 190 | 30 | 0 | | | | | 220 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 806 | 389 | 115 | | | | | 1310 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 122 | 39 | | | | | 161 |
| B | 80 | 0 | 11 | | | | | 91 |
| C | 93 | 10 | 0 | | | | | 103 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 173 | 132 | 50 | | | | | 355 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 238 | 42 | | | | | 280 |
| B | 318 | 0 | 13 | | | | | 331 |
| C | 104 | 3 | 0 | | | | | 107 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 422 | 241 | 55 | | | | | 718 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | | | | | 0 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 534 | 298 | | | | | 832 |
| B | 733 | 0 | 69 | | | | | 802 |
| C | 100 | 98 | 0 | | | | | 198 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 833 | 632 | 367 | | | | | 1832 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 301 | 115 | | | | | 416 |
| B | 382 | 0 | 62 | | | | | 444 |
| C | 11 | 81 | 0 | | | | | 92 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 393 | 382 | 177 | | | | | 952 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 80 | 70 | | | | | 150 |
| B | 164 | 0 | 6 | | | | | 170 |
| C | 9 | 13 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 173 | 93 | 76 | | | | | 342 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 153 | 113 | | | | | 266 |
| B | 187 | 0 | 1 | | | | | 188 |
| C | 80 | 4 | 0 | | | | | 84 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 267 | 157 | 114 | | | | | 538 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 671 | 443 | | | | | 1114 |
| B | 772 | 0 | 147 | | | | | 919 |
| C | 55 | 119 | 0 | | | | | 174 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 827 | 790 | 590 | | | | | 2207 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 553 | 351 | | | | | 904 |
| B | 661 | 0 | 135 | | | | | 796 |
| C | 9 | 108 | 0 | | | | | 117 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 670 | 661 | 486 | | | | | 1817 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 50 | 33 | | | | | 83 |
| B | 34 | 0 | 12 | | | | | 46 |
| C | 16 | 10 | 0 | | | | | 26 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 50 | 60 | 45 | | | | | 155 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 68 | 59 | | | | | 127 |
| B | 77 | 0 | 0 | | | | | 77 |
| C | 30 | 1 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 107 | 69 | 59 | | | | | 235 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J3

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7546 | 60237 | 60237 | 7546 | *TC 11 - Pilsworth Rd E* |
| B | 3001 | 60238 | 60239 | 3000 | *JTC 11 - M66 SB Off* |
| C | 60213 | 60000 | 60000 | 60213 | *TC 11 - Pilsworth Rd W* |
| D | 60236 | 4918 | 60240 | 2998 | *JTC 11 - M66 NB Off* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 330 | 431 | 183 | | | | 944 |
| B | 375 | 0 | 399 | 0 | | | | 774 |
| C | 378 | 214 | 0 | 169 | | | | 761 |
| D | 627 | 0 | 289 | 0 | | | | 916 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1380 | 544 | 1119 | 352 | | | | 3395 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 253 | 321 | 123 | | | | 697 |
| B | 303 | 0 | 204 | 0 | | | | 507 |
| C | 284 | 64 | 0 | 39 | | | | 387 |
| D | 522 | 0 | 173 | 0 | | | | 695 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1109 | 317 | 698 | 162 | | | | 2286 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 44 | 48 | | | | 143 |
| B | 43 | 0 | 15 | 0 | | | | 58 |
| C | 55 | 58 | 0 | 20 | | | | 133 |
| D | 57 | 0 | 32 | 0 | | | | 89 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 155 | 109 | 91 | 68 | | | | 423 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 66 | 12 | | | | 104 |
| B | 29 | 0 | 180 | 0 | | | | 209 |
| C | 39 | 92 | 0 | 110 | | | | 241 |
| D | 48 | 0 | 84 | 0 | | | | 132 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 116 | 118 | 330 | 122 | | | | 686 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 345 | 364 | 180 | | | | 889 |
| B | 293 | 0 | 272 | 0 | | | | 565 |
| C | 286 | 176 | 0 | 171 | | | | 633 |
| D | 318 | 0 | 164 | 0 | | | | 482 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 897 | 521 | 800 | 351 | | | | 2569 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 271 | 213 | 160 | | | | 644 |
| B | 223 | 0 | 154 | 0 | | | | 377 |
| C | 203 | 124 | 0 | 56 | | | | 383 |
| D | 227 | 0 | 77 | 0 | | | | 304 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 653 | 395 | 444 | 216 | | | | 1708 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 58 | 19 | | | | 120 |
| B | 38 | 0 | 77 | 0 | | | | 115 |
| C | 41 | 26 | 0 | 27 | | | | 94 |
| D | 43 | 0 | 34 | 0 | | | | 77 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 69 | 169 | 46 | | | | 406 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 31 | 93 | 1 | | | | 125 |
| B | 32 | 0 | 41 | 0 | | | | 73 |
| C | 42 | 26 | 0 | 88 | | | | 156 |
| D | 48 | 0 | 53 | 0 | | | | 101 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 122 | 57 | 187 | 89 | | | | 455 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 394 | 503 | 187 | | | | 1084 |
| B | 287 | 0 | 231 | 0 | | | | 518 |
| C | 345 | 192 | 0 | 254 | | | | 791 |
| D | 461 | 0 | 185 | 0 | | | | 646 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1093 | 586 | 919 | 441 | | | | 3039 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 361 | 454 | 168 | | | | 983 |
| B | 256 | 0 | 201 | 0 | | | | 457 |
| C | 292 | 169 | 0 | 201 | | | | 662 |
| D | 357 | 0 | 141 | 0 | | | | 498 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 905 | 530 | 796 | 369 | | | | 2600 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 18 | 17 | | | | 56 |
| B | 24 | 0 | 10 | 0 | | | | 34 |
| C | 21 | 19 | 0 | 20 | | | | 60 |
| D | 48 | 0 | 18 | 0 | | | | 66 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 93 | 40 | 46 | 37 | | | | 216 |

MODELLED — HGV

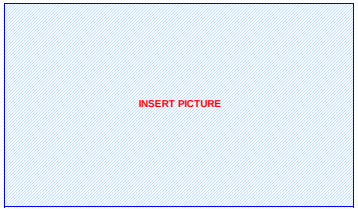
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 31 | 2 | | | | 45 |
| B | 7 | 0 | 20 | 0 | | | | 27 |
| C | 32 | 4 | 0 | 33 | | | | 69 |
| D | 56 | 0 | 26 | 0 | | | | 82 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 95 | 16 | 77 | 35 | | | | 223 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M66 J2




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 2244 | 4913 | 4912 | 2244 | C 12 - Rochdale Road |
| B | 3004 | 5568 | 4914 | 3005 | JTC 12 - M66 SB Off |
| C | 22097 | 5568 | 4916 | 20097 | TC 12 - Bury New Roa |
| D | 2039 | 4917 | 4916 | 2039 | TC 12 - Bury New Roa |
| E | 3002 | 3412 | 3413 | 3003 | 12 - M66 N12 - M66 NB Of |
| F | 20432 | 3412 | 3412 | 20432 | 12 - Water 12 - Waterfold |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 123 | 94 | 499 | 1269 | 41 | | 2026 |
| B | 235 | 0 | 23 | 232 | 0 | 29 | | 519 |
| C | 55 | 3 | 0 | 12 | 19 | 0 | | 89 |
| D | 557 | 250 | 22 | 0 | 247 | 48 | | 1124 |
| E | 1454 | 0 | 62 | 118 | 0 | 85 | | 1719 |
| F | 27 | 4 | 1 | 27 | 24 | 0 | | 83 |
| G | | | | | | | | |
| TOTAL | 2328 | 380 | 202 | 888 | 1559 | 203 | | 5560 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 95 | 37 | 304 | 1005 | 40 | | 1481 |
| B | 219 | 0 | 21 | 168 | 0 | 27 | | 435 |
| C | 9 | 1 | 0 | 3 | 6 | 0 | | 19 |
| D | 471 | 171 | 18 | 0 | 163 | 35 | | 858 |
| E | 1045 | 0 | 46 | 62 | 0 | 82 | | 1235 |
| F | 23 | 3 | 1 | 20 | 21 | 0 | | 68 |
| G | | | | | | | | |
| TOTAL | 1767 | 270 | 123 | 557 | 1195 | 184 | | 4096 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 23 | 27 | 102 | 157 | 1 | | 310 |
| B | 13 | 0 | 2 | 37 | 0 | 0 | | 52 |
| C | 32 | 2 | 0 | 6 | 8 | 0 | | 48 |
| D | 36 | 38 | 3 | 0 | 42 | 5 | | 124 |
| E | 181 | 0 | 7 | 34 | 0 | 2 | | 224 |
| F | 1 | 0 | 0 | 1 | 1 | 0 | | 3 |
| G | | | | | | | | |
| TOTAL | 263 | 63 | 39 | 180 | 208 | 8 | | 761 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 30 | 93 | 107 | 0 | | 235 |
| B | 3 | 0 | 0 | 27 | 0 | 2 | | 32 |
| C | 14 | 0 | 0 | 3 | 5 | 0 | | 22 |
| D | 50 | 41 | 1 | 0 | 42 | 8 | | 142 |
| E | 228 | 0 | 9 | 22 | 0 | 1 | | 260 |
| F | 3 | 1 | 0 | 6 | 2 | 0 | | 12 |
| G | | | | | | | | |
| TOTAL | 298 | 47 | 40 | 151 | 156 | 11 | | 703 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 170 | 99 | 288 | 1188 | 25 | | 1770 |
| B | 205 | 0 | 20 | 182 | 0 | 8 | | 415 |
| C | 73 | 12 | 0 | 13 | 32 | 1 | | 131 |
| D | 481 | 153 | 29 | 0 | 96 | 44 | | 803 |
| E | 1174 | 0 | 44 | 130 | 0 | 36 | | 1384 |
| F | 32 | 11 | 1 | 33 | 44 | 0 | | 121 |
| G | | | | | | | | |
| TOTAL | 1965 | 346 | 193 | 646 | 1360 | 114 | | 4624 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 124 | 48 | 185 | 846 | 22 | | 1225 |
| B | 169 | 0 | 15 | 117 | 0 | 6 | | 307 |
| C | 26 | 7 | 0 | 9 | 20 | 1 | | 63 |
| D | 295 | 95 | 17 | 0 | 46 | 24 | | 477 |
| E | 850 | 0 | 34 | 57 | 0 | 28 | | 969 |
| F | 29 | 9 | 1 | 21 | 38 | 0 | | 98 |
| G | | | | | | | | |
| TOTAL | 1369 | 235 | 115 | 389 | 950 | 81 | | 3139 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 32 | 22 | 204 | 2 | | 285 |
| B | 19 | 0 | 3 | 20 | 0 | 1 | | 43 |
| C | 37 | 3 | 0 | 2 | 8 | 0 | | 50 |
| D | 81 | 35 | 6 | 0 | 22 | 7 | | 151 |
| E | 172 | 0 | 7 | 38 | 0 | 3 | | 220 |
| F | 2 | 1 | 0 | 4 | 4 | 0 | | 11 |
| G | | | | | | | | |
| TOTAL | 311 | 64 | 48 | 86 | 238 | 13 | | 760 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 21 | 19 | 81 | 138 | 1 | | 260 |
| B | 17 | 0 | 2 | 45 | 0 | 1 | | 65 |
| C | 10 | 2 | 0 | 2 | 4 | 0 | | 18 |
| D | 105 | 23 | 6 | 0 | 28 | 13 | | 175 |
| E | 152 | 0 | 3 | 35 | 0 | 5 | | 195 |
| F | 1 | 1 | 0 | 8 | 2 | 0 | | 12 |
| G | | | | | | | | |
| TOTAL | 285 | 47 | 30 | 171 | 172 | 20 | | 725 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 248 | 29 | 355 | 1238 | 34 | | 1904 |
| B | 239 | 0 | 5 | 153 | 0 | 12 | | 409 |
| C | 46 | 12 | 0 | 17 | 44 | 1 | | 120 |
| D | 623 | 183 | 12 | 0 | 153 | 56 | | 1027 |
| E | 1369 | 0 | 16 | 182 | 0 | 41 | | 1608 |
| F | 33 | 15 | 0 | 40 | 89 | 0 | | 177 |
| G | | | | | | | | |
| TOTAL | 2310 | 458 | 62 | 747 | 1524 | 144 | | 5245 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 235 | 15 | 302 | 1145 | 33 | | 1730 |
| B | 225 | 0 | 4 | 137 | 0 | 11 | | 377 |
| C | 21 | 11 | 0 | 15 | 41 | 1 | | 89 |
| D | 525 | 163 | 10 | 0 | 122 | 51 | | 871 |
| E | 1225 | 0 | 13 | 142 | 0 | 36 | | 1416 |
| F | 31 | 14 | 0 | 37 | 88 | 0 | | 170 |
| G | | | | | | | | |
| TOTAL | 2027 | 423 | 42 | 633 | 1396 | 132 | | 4653 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 12 | 26 | 71 | 1 | | 122 |
| B | 14 | 0 | 1 | 14 | 0 | 1 | | 30 |
| C | 21 | 1 | 0 | 2 | 3 | 0 | | 27 |
| D | 39 | 17 | 2 | 0 | 20 | 5 | | 83 |
| E | 109 | 0 | 3 | 26 | 0 | 3 | | 141 |
| F | 2 | 1 | 0 | 2 | 1 | 0 | | 6 |
| G | | | | | | | | |
| TOTAL | 185 | 31 | 18 | 70 | 95 | 10 | | 409 |

MODELLED — HGV

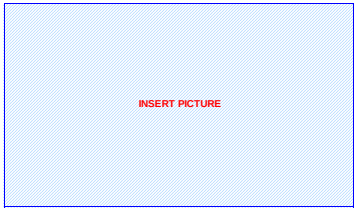
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 2 | 27 | 22 | 0 | | 52 |
| B | 0 | 0 | 0 | 2 | 0 | 0 | | 2 |
| C | 4 | 0 | 0 | 0 | 0 | 0 | | 4 |
| D | 59 | 3 | 0 | 0 | 11 | 0 | | 73 |
| E | 35 | 0 | 0 | 14 | 0 | 2 | | 51 |
| F | 0 | 0 | 0 | 1 | 0 | 0 | | 1 |
| G | | | | | | | | |
| TOTAL | 98 | 4 | 2 | 44 | 33 | 2 | | 183 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | 0 |
| F | | | | | | | | 0 |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Whittle Lane / A6045 Heywood Old Road




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7468 | 2478 | 2478 | 7468 | Heywood Old Road NE |
| B | 60074 | 2478 | 2478 | 60074 | Whittle Lane |
| C | 4730 | 2478 | 2478 | 4730 | Heywood Old Road SE |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 530 | | | | | 530 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 312 | 0 | 0 | | | | | 312 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 312 | 0 | 530 | | | | | 842 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 465 | | | | | 465 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 252 | 0 | 0 | | | | | 252 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 252 | 0 | 465 | | | | | 716 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 46 | | | | | 46 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 49 | 0 | 0 | | | | | 49 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 49 | 0 | 46 | | | | | 95 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 18 | | | | | 18 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 11 | 0 | 0 | | | | | 11 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 11 | 0 | 18 | | | | | 29 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 2 | | | | | 2 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 446 | | | | | 446 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 308 | 0 | 0 | | | | | 308 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 308 | 0 | 446 | | | | | 753 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 340 | | | | | 340 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 256 | 0 | 0 | | | | | 256 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 256 | 0 | 340 | | | | | 596 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 58 | | | | | 58 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 0 | 58 | | | | | 90 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 46 | | | | | 46 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 20 | 0 | 46 | | | | | 66 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.99 | | | | | 1.99 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 733 | | | | | 733 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 403 | 0 | 0 | | | | | 403 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 403 | 0 | 733 | | | | | 1136 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 645 | | | | | 645 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 363 | 0 | 0 | | | | | 363 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 363 | 0 | 645 | | | | | 1007 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 69 | | | | | 69 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 35 | 0 | 0 | | | | | 35 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 35 | 0 | 69 | | | | | 104 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 17 | | | | | 17 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 5 | 0 | 0 | | | | | 5 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 5 | 0 | 17 | | | | | 22 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 2 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 1.96 | | | | | 1.96 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A6045 Heywood Old Road / Langley Lane**

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60078 | 4730 | 4730 | 60078 | *Heywood Old Road SB* |
| B | 15238 | 4730 | 4730 | 15238 | *Langley Lane* |
| C | 2478 | 4730 | 4730 | 2478 | *Heywood Old Road NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 198 | | | | | 272 |
| B | 148 | 0 | 114 | | | | | 263 |
| C | 353 | 177 | 0 | | | | | 530 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 502 | 252 | 312 | | | | | 1065 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 162 | | | | | 225 |
| B | 141 | 0 | 90 | | | | | 231 |
| C | 312 | 153 | 0 | | | | | 465 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 452 | 216 | 252 | | | | | 921 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 32 | | | | | 36 |
| B | 4 | 0 | 18 | | | | | 22 |
| C | 24 | 21 | 0 | | | | | 46 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 28 | 26 | 49 | | | | | 103 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 4 | | | | | 9 |
| B | 3 | 0 | 7 | | | | | 10 |
| C | 17 | 0 | 0 | | | | | 18 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 21 | 5 | 11 | | | | | 37 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 4 | 0 | | | | | 4 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 43 | 208 | | | | | 251 |
| B | 48 | 0 | 100 | | | | | 148 |
| C | 337 | 108 | 0 | | | | | 446 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 385 | 151 | 308 | | | | | 844 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 165 | | | | | 204 |
| B | 39 | 0 | 91 | | | | | 130 |
| C | 254 | 86 | 0 | | | | | 340 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 294 | 124 | 256 | | | | | 674 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 23 | | | | | 25 |
| B | 4 | 0 | 9 | | | | | 12 |
| C | 44 | 14 | 0 | | | | | 58 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 48 | 16 | 32 | | | | | 95 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 19 | | | | | 20 |
| B | 3 | 0 | 1 | | | | | 3 |
| C | 39 | 7 | 0 | | | | | 46 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 41 | 8 | 20 | | | | | 69 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.98 | 0 | | | | | 5.98 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 85 | 284 | | | | | 369 |
| B | 65 | 0 | 119 | | | | | 183 |
| C | 541 | 192 | 0 | | | | | 733 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 605 | 277 | 403 | | | | | 1285 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 76 | 259 | | | | | 335 |
| B | 59 | 0 | 104 | | | | | 163 |
| C | 481 | 164 | 0 | | | | | 645 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 540 | 240 | 363 | | | | | 1142 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 21 | | | | | 27 |
| B | 3 | 0 | 14 | | | | | 17 |
| C | 44 | 25 | 0 | | | | | 69 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 47 | 31 | 35 | | | | | 113 |

MODELLED — HGV

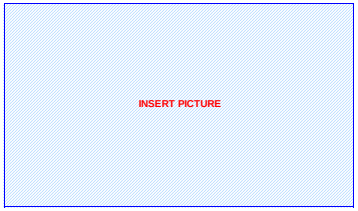
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 5 | | | | | 5 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 16 | 1 | 0 | | | | | 17 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 17 | 2 | 5 | | | | | 23 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 0 | 2 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 2 | 3.95 | 0 | | | | | 5.95 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Langley Lane / A6046 Hollin Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6543 | 2028 | 2028 | 6543 | *Hollin Lane NB* |
| B | 15239 | 2028 | 2028 | 15239 | *Langley Lane* |
| C | 6176 | 2028 | 2028 | 6176 | *Hollin Lane SB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 54 | 702 | | | | | 755 |
| B | 139 | 0 | 47 | | | | | 186 |
| C | 609 | 5 | 0 | | | | | 614 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 748 | 59 | 748 | | | | | 1556 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 504 | | | | | 534 |
| B | 113 | 0 | 45 | | | | | 158 |
| C | 361 | 5 | 0 | | | | | 366 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 474 | 35 | 549 | | | | | 1059 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 17 | 123 | | | | | 140 |
| B | 21 | 0 | 1 | | | | | 22 |
| C | 126 | 0 | 0 | | | | | 126 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 148 | 18 | 124 | | | | | 289 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 54 | | | | | 61 |
| B | 0 | 0 | 1 | | | | | 1 |
| C | 92 | 0 | 0 | | | | | 92 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 93 | 7 | 55 | | | | | 154 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 20 | | | | | 20 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 30 | 0 | 0 | | | | | 30 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 34 | 0 | 20 | | | | | 54 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 38 | 684 | | | | | 722 |
| B | 47 | 0 | 18 | | | | | 66 |
| C | 537 | 11 | 0 | | | | | 549 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 585 | 49 | 702 | | | | | 1336 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 26 | 442 | | | | | 468 |
| B | 28 | 0 | 17 | | | | | 45 |
| C | 370 | 11 | 0 | | | | | 382 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 398 | 38 | 459 | | | | | 895 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 8 | 114 | | | | | 122 |
| B | 10 | 0 | 0 | | | | | 11 |
| C | 83 | 0 | 0 | | | | | 83 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 93 | 8 | 114 | | | | | 215 |

HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 109 | | | | | 109 |
| B | 5 | 0 | 1 | | | | | 6 |
| C | 61 | 0 | 0 | | | | | 61 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 66 | 1 | 109 | | | | | 176 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 20 | | | | | 22 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.86 | 2 | 19.98 | | | | | 49.84 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED

All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 67 | 794 | | | | | 862 |
| B | 47 | 0 | 11 | | | | | 57 |
| C | 676 | 38 | 0 | | | | | 715 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 723 | 106 | 805 | | | | | 1634 |

*By Vehicle Type:*

Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 51 | 669 | | | | | 720 |
| B | 24 | 0 | 11 | | | | | 35 |
| C | 546 | 38 | 0 | | | | | 584 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 571 | 89 | 679 | | | | | 1339 |

LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 14 | 66 | | | | | 80 |
| B | 18 | 0 | 0 | | | | | 18 |
| C | 72 | 0 | 0 | | | | | 73 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 90 | 14 | 66 | | | | | 170 |

HGV

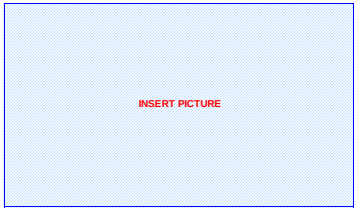
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 32 | | | | | 32 |
| B | 1 | 0 | 0 | | | | | 1 |
| C | 34 | 0 | 0 | | | | | 34 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 35 | 0 | 32 | | | | | 67 |

Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 28 | | | | | 30 |
| B | 4 | 0 | 0 | | | | | 4 |
| C | 24 | 0 | 0 | | | | | 24 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.79 | 1.99 | 27.84 | | | | | 57.62 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** **A6045 Manchester Road / Coronation Avenue**




***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4477 | 2816 | 2816 | 4477 | *Manchester Rd SB* |
| B | 2782 | 2816 | 2816 | 2782 | *Coronation Avenue* |
| C | 6909 | 2816 | 2816 | 6909 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

All Vehicles — MODELLED

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 85 | 357 | | | | | 442 |
| B | 297 | 0 | 39 | | | | | 336 |
| C | 310 | 235 | 0 | | | | | 545 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 607 | 320 | 396 | | | | | 1323 |

*By Vehicle Type:*

Car — MODELLED

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 285 | | | | | 285 |
| B | 226 | 0 | 32 | | | | | 258 |
| C | 268 | 190 | 0 | | | | | 458 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 494 | 190 | 317 | | | | | 1000 |

LGV — MODELLED

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 53 | | | | | 53 |
| B | 6 | 0 | 5 | | | | | 11 |
| C | 20 | 31 | 0 | | | | | 51 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 31 | 58 | | | | | 115 |

HGV — MODELLED

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 56 | 15 | | | | | 70 |
| B | 46 | 0 | 2 | | | | | 48 |
| C | 22 | 14 | 0 | | | | | 36 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 68 | 69 | 17 | | | | | 154 |

Fixed — MODELLED

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 30 | 4 | | | | | 34 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 0 | 0 | 0 | | | | | 0 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 20 | 30 | 4 | | | | | 53 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

All Vehicles — MODELLED

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 63 | 255 | | | | | 318 |
| B | 91 | 0 | 61 | | | | | 152 |
| C | 382 | 135 | 0 | | | | | 517 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 473 | 198 | 316 | | | | | 986 |

*By Vehicle Type:*

Car — MODELLED

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 183 | | | | | 183 |
| B | 11 | 0 | 10 | | | | | 22 |
| C | 277 | 103 | 0 | | | | | 379 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 288 | 103 | 193 | | | | | 584 |

LGV — MODELLED

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 35 | | | | | 35 |
| B | 0 | 0 | 38 | | | | | 39 |
| C | 69 | 23 | 0 | | | | | 91 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 69 | 23 | 73 | | | | | 165 |

HGV — MODELLED

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 39 | 31 | | | | | 70 |
| B | 60 | 0 | 12 | | | | | 72 |
| C | 34 | 9 | 0 | | | | | 44 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 94 | 48 | 43 | | | | | 185 |

Fixed — MODELLED

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 6 | | | | | 30 |
| B | 20 | 0 | 0 | | | | | 20 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 21.94 | 23.89 | 5.97 | | | | | 51.8 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

All Vehicles — MODELLED

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 40 | 275 | | | | | 315 |
| B | 247 | 0 | 22 | | | | | 269 |
| C | 418 | 164 | 0 | | | | | 582 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 665 | 204 | 297 | | | | | 1166 |

*By Vehicle Type:*

Car — MODELLED

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 235 | | | | | 235 |
| B | 201 | 0 | 11 | | | | | 212 |
| C | 355 | 147 | 0 | | | | | 503 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 556 | 147 | 245 | | | | | 949 |

LGV — MODELLED

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 16 | | | | | 16 |
| B | 2 | 0 | 10 | | | | | 12 |
| C | 33 | 15 | 0 | | | | | 48 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 35 | 15 | 27 | | | | | 77 |

HGV — MODELLED

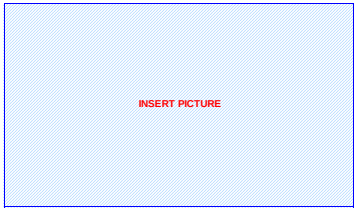
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 16 | 20 | | | | | 36 |
| B | 17 | 0 | 1 | | | | | 17 |
| C | 28 | 2 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 44 | 17 | 21 | | | | | 82 |

Fixed — MODELLED

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 4 | | | | | 28 |
| B | 28 | 0 | 0 | | | | | 28 |
| C | 2 | 0 | 0 | | | | | 2 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.78 | 23.84 | 3.97 | | | | | 57.59 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** Hollins Brow / Hollins Lane




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 7392 | 2222 | 2222 | 7392 | *Hollins Brow SB* |
| B | 7391 | 2222 | 2222 | 7391 | *Hollins Lane* |
| C | 2484 | 2222 | 2222 | 2484 | *Hollins Brow NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 370 | 456 | | | | | 826 |
| B | 206 | 0 | 70 | | | | | 276 |
| C | 705 | 64 | 0 | | | | | 770 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 911 | 434 | 526 | | | | | 1872 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 321 | 372 | | | | | 692 |
| B | 164 | 0 | 57 | | | | | 220 |
| C | 573 | 48 | 0 | | | | | 621 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 737 | 369 | 428 | | | | | 1534 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 41 | 52 | | | | | 92 |
| B | 36 | 0 | 7 | | | | | 43 |
| C | 67 | 9 | 0 | | | | | 77 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 104 | 50 | 59 | | | | | 212 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 33 | | | | | 38 |
| B | 2 | 0 | 0 | | | | | 2 |
| C | 64 | 2 | 0 | | | | | 66 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 66 | 6 | 34 | | | | | 106 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4 | 10 | 6 | | | | | 20 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 156 | 506 | | | | | 662 |
| B | 148 | 0 | 39 | | | | | 187 |
| C | 524 | 59 | 0 | | | | | 582 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 672 | 215 | 545 | | | | | 1432 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 123 | 378 | | | | | 501 |
| B | 116 | 0 | 26 | | | | | 141 |
| C | 380 | 40 | 0 | | | | | 420 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 495 | 163 | 404 | | | | | 1062 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 25 | 67 | | | | | 93 |
| B | 24 | 0 | 7 | | | | | 30 |
| C | 75 | 12 | 0 | | | | | 87 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 99 | 38 | 74 | | | | | 210 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 61 | | | | | 67 |
| B | 5 | 0 | 0 | | | | | 5 |
| C | 69 | 1 | 0 | | | | | 69 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 74 | 7 | 61 | | | | | 142 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | | | | | 2 |
| B | 4 | 0 | 6 | | | | | 10 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 4 | 7.98 | 6 | | | | | 17.98 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 300 | 552 | | | | | 852 |
| B | 137 | 0 | 36 | | | | | 173 |
| C | 601 | 57 | 0 | | | | | 658 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 738 | 357 | 588 | | | | | 1683 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 270 | 485 | | | | | 755 |
| B | 118 | 0 | 26 | | | | | 144 |
| C | 531 | 41 | 0 | | | | | 573 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 650 | 311 | 511 | | | | | 1472 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 42 | | | | | 66 |
| B | 9 | 0 | 4 | | | | | 14 |
| C | 39 | 10 | 0 | | | | | 48 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 48 | 34 | 46 | | | | | 128 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 25 | | | | | 27 |
| B | 7 | 0 | 0 | | | | | 7 |
| C | 31 | 0 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 38 | 2 | 25 | | | | | 65 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | | | | | 4 |
| B | 2 | 0 | 6 | | | | | 8 |
| C | 0 | 6 | 0 | | | | | 6 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 1.99 | 9.9 | 5.96 | | | | | 17.85 |

## *Junction Turning Flows, Units: PCUs Demand Flows*

***Junction:*** Hollins Brow / A56 Manchester Road

INSERT PICTURE

***Arm Description***

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 4417 | 2484 | 2484 | 4417 | *Manchester Rd SB* |
| B | 2222 | 2484 | 2484 | 2222 | *Hollins Brow* |
| C | 2233 | 2484 | 2484 | 2233 | *Manchester Rd NB* |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 625 | 574 | | | | | 1199 |
| B | 443 | 0 | 83 | | | | | 526 |
| C | 723 | 145 | 0 | | | | | 868 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1166 | 770 | 657 | | | | | 2593 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 515 | 465 | | | | | 980 |
| B | 367 | 0 | 62 | | | | | 428 |
| C | 638 | 106 | 0 | | | | | 744 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1005 | 621 | 526 | | | | | 2152 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 56 | | | | | 108 |
| B | 47 | 0 | 12 | | | | | 59 |
| C | 44 | 25 | 0 | | | | | 69 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 91 | 77 | 68 | | | | | 235 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 52 | 33 | | | | | 85 |
| B | 24 | 0 | 10 | | | | | 34 |
| C | 21 | 14 | 0 | | | | | 35 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 45 | 66 | 43 | | | | | 154 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 26 | 6 | 20 | | | | | 52 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 409 | 585 | | | | | 994 |
| B | 380 | 0 | 164 | | | | | 545 |
| C | 631 | 173 | 0 | | | | | 805 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1012 | 582 | 750 | | | | | 2343 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 301 | 462 | | | | | 763 |
| B | 286 | 0 | 118 | | | | | 404 |
| C | 496 | 119 | 0 | | | | | 615 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 781 | 420 | 580 | | | | | 1781 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 58 | 68 | | | | | 126 |
| B | 51 | 0 | 23 | | | | | 74 |
| C | 79 | 29 | 0 | | | | | 108 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 130 | 87 | 91 | | | | | 308 |

MODELLED — HGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 44 | 35 | | | | | 79 |
| B | 38 | 0 | 23 | | | | | 61 |
| C | 35 | 25 | 0 | | | | | 60 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 73 | 69 | 58 | | | | | 200 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 22 | 0 | 0 | | | | | 22 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 27.94 | 5.99 | 19.96 | | | | | 53.89 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 512 | 590 | | | | | 1101 |
| B | 486 | 0 | 102 | | | | | 588 |
| C | 754 | 147 | 0 | | | | | 900 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1240 | 658 | 691 | | | | | 2590 |

*By Vehicle Type:*

MODELLED — Car — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 457 | 512 | | | | | 969 |
| B | 423 | 0 | 88 | | | | | 511 |
| C | 663 | 116 | 0 | | | | | 778 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1085 | 573 | 600 | | | | | 2258 |

MODELLED — LGV — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 27 | 49 | | | | | 76 |
| B | 36 | 0 | 9 | | | | | 46 |
| C | 61 | 22 | 0 | | | | | 82 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 97 | 48 | 59 | | | | | 204 |

MODELLED — HGV — To Arm

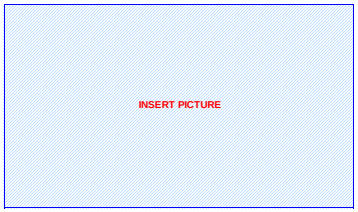
| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 8 | | | | | 30 |
| B | 21 | 0 | 4 | | | | | 25 |
| C | 11 | 10 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 32 | 31 | 12 | | | | | 75 |

MODELLED — Fixed — To Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 20 | | | | | 26 |
| B | 6 | 0 | 0 | | | | | 6 |
| C | 20 | 0 | 0 | | | | | 20 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 25.66 | 5.98 | 19.95 | | | | | 51.59 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J18




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 9996 | 2997 | 12832 | 2999 | *JTC 19 - M66* |
| B | 14278 | 2716 | 14437 | 60014 | *JTC 19 - M62 WB* |
| C | 12827 | 2936 | 2935 | 3283 | *JTC 19 - M60* |
| D | 26859 | 2713 | 50003 | 2710 | *JTC 19 - M62 EB* |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 935 | 2993 | 740 | | | | 4668 |
| B | 551 | 0 | 1188 | 4008 | | | | 5747 |
| C | 2581 | 695 | 0 | 1887 | | | | 5163 |
| D | 1199 | 4791 | 2260 | 0 | | | | 8250 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4331 | 6421 | 6441 | 6635 | | | | 23828 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 778 | 2030 | 432 | | | | 3240 |
| B | 514 | 0 | 845 | 1991 | | | | 3350 |
| C | 1768 | 443 | 0 | 1161 | | | | 3372 |
| D | 686 | 2273 | 1368 | 0 | | | | 4327 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2968 | 3494 | 4243 | 3584 | | | | 14289 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 156 | 588 | 122 | | | | 866 |
| B | 37 | 0 | 123 | 671 | | | | 831 |
| C | 384 | 106 | 0 | 493 | | | | 983 |
| D | 323 | 845 | 482 | 0 | | | | 1650 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 744 | 1107 | 1193 | 1286 | | | | 4330 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 375 | 186 | | | | 562 |
| B | 0 | 0 | 220 | 1346 | | | | 1566 |
| C | 429 | 146 | 0 | 233 | | | | 808 |
| D | 190 | 1673 | 410 | 0 | | | | 2273 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 619 | 1820 | 1005 | 1765 | | | | 5209 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 797 | 1625 | 782 | | | | 3204 |
| B | 443 | 0 | 601 | 4803 | | | | 5847 |
| C | 2127 | 225 | 0 | 1206 | | | | 3558 |
| D | 1092 | 5015 | 2063 | 0 | | | | 8170 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3662 | 6037 | 4289 | 6791 | | | | 20779 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 592 | 989 | 355 | | | | 1936 |
| B | 436 | 0 | 422 | 2307 | | | | 3165 |
| C | 1424 | 118 | 0 | 584 | | | | 2126 |
| D | 465 | 2334 | 1131 | 0 | | | | 3930 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 2325 | 3044 | 2542 | 3246 | | | | 11157 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 97 | 355 | 182 | | | | 634 |
| B | 7 | 0 | 93 | 920 | | | | 1020 |
| C | 365 | 38 | 0 | 313 | | | | 716 |
| D | 262 | 915 | 411 | 0 | | | | 1588 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 634 | 1050 | 859 | 1415 | | | | 3958 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 108 | 281 | 245 | | | | 634 |
| B | 0 | 0 | 86 | 1576 | | | | 1662 |
| C | 338 | 69 | 0 | 309 | | | | 716 |
| D | 365 | 1766 | 521 | 0 | | | | 2652 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 703 | 1943 | 888 | 2130 | | | | 5664 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 848 | 2118 | 793 | | | | 3759 |
| B | 199 | 0 | 845 | 4917 | | | | 5961 |
| C | 3365 | 425 | 0 | 1117 | | | | 4907 |
| D | 1363 | 4474 | 2325 | 0 | | | | 8162 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 4927 | 5747 | 5288 | 6827 | | | | 22789 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 774 | 1742 | 528 | | | | 3044 |
| B | 191 | 0 | 783 | 3223 | | | | 4197 |
| C | 2773 | 329 | 0 | 789 | | | | 3891 |
| D | 988 | 2980 | 1677 | 0 | | | | 5645 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 3952 | 4083 | 4202 | 4540 | | | | 16777 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 71 | 286 | 154 | | | | 511 |
| B | 8 | 0 | 37 | 640 | | | | 685 |
| C | 400 | 63 | 0 | 249 | | | | 712 |
| D | 225 | 583 | 383 | 0 | | | | 1191 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 633 | 717 | 706 | 1043 | | | | 3099 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 90 | 111 | | | | 204 |
| B | 0 | 0 | 25 | 1054 | | | | 1079 |
| C | 192 | 33 | 0 | 79 | | | | 304 |
| D | 150 | 911 | 265 | 0 | | | | 1326 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 342 | 947 | 380 | 1244 | | | | 2913 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M62 J20

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 6259 | 4927 | 4926 | 6260 | JTC 20 - A627 SB |
| B | 2727 | 2724 | 2723 | 2725 | JTC 20 - M62 WB |
| C | 2768 | 4932 | 4929 | 2767 | JTC 20 - A627 NB |
| D | 2719 | 2721 | 2722 | 2720 | JTC 20 - M62 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 164 | 835 | 725 | | | | 1724 |
| B | 189 | 0 | 823 | 4508 | | | | 5520 |
| C | 806 | 553 | 0 | 690 | | | | 2049 |
| D | 956 | 4601 | 1039 | 0 | | | | 6596 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1951 | 5318 | 2697 | 5923 | | | | 15889 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 121 | 680 | 428 | | | | 1229 |
| B | 164 | 0 | 629 | 2392 | | | | 3185 |
| C | 652 | 324 | 0 | 468 | | | | 1444 |
| D | 572 | 2271 | 700 | 0 | | | | 3543 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1388 | 2716 | 2009 | 3288 | | | | 9401 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 19 | 69 | 97 | | | | 185 |
| B | 22 | 0 | 95 | 675 | | | | 792 |
| C | 99 | 65 | 0 | 116 | | | | 280 |
| D | 130 | 786 | 191 | 0 | | | | 1107 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 251 | 870 | 355 | 888 | | | | 2364 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 86 | 200 | | | | 310 |
| B | 3 | 0 | 99 | 1441 | | | | 1543 |
| C | 55 | 164 | 0 | 106 | | | | 325 |
| D | 254 | 1544 | 148 | 0 | | | | 1946 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 312 | 1732 | 333 | 1747 | | | | 4124 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 105 | 656 | 656 | | | | 1417 |
| B | 239 | 0 | 731 | 4148 | | | | 5118 |
| C | 365 | 620 | 0 | 811 | | | | 1796 |
| D | 773 | 4855 | 686 | 0 | | | | 6314 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1377 | 5580 | 2073 | 5615 | | | | 14645 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 59 | 483 | 367 | | | | 909 |
| B | 92 | 0 | 327 | 2108 | | | | 2527 |
| C | 205 | 300 | 0 | 560 | | | | 1065 |
| D | 534 | 2252 | 489 | 0 | | | | 3275 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 831 | 2611 | 1299 | 3035 | | | | 7776 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 10 | 108 | 118 | | | | 236 |
| B | 16 | 0 | 132 | 661 | | | | 809 |
| C | 91 | 87 | 0 | 170 | | | | 348 |
| D | 128 | 792 | 136 | 0 | | | | 1056 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 235 | 889 | 376 | 949 | | | | 2449 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 65 | 171 | | | | 272 |
| B | 131 | 0 | 272 | 1379 | | | | 1782 |
| C | 69 | 233 | 0 | 81 | | | | 383 |
| D | 111 | 1811 | 61 | 0 | | | | 1983 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 311 | 2080 | 398 | 1631 | | | | 4420 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 147 | 847 | 900 | | | | 1894 |
| B | 137 | 0 | 765 | 3924 | | | | 4826 |
| C | 851 | 988 | 0 | 875 | | | | 2714 |
| D | 686 | 4682 | 866 | 0 | | | | 6234 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1674 | 5817 | 2478 | 5699 | | | | 15668 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 110 | 660 | 599 | | | | 1369 |
| B | 97 | 0 | 613 | 2534 | | | | 3244 |
| C | 760 | 788 | 0 | 698 | | | | 2246 |
| D | 578 | 3220 | 753 | 0 | | | | 4551 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1435 | 4118 | 2026 | 3831 | | | | 11410 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 22 | 102 | 114 | | | | 238 |
| B | 7 | 0 | 68 | 484 | | | | 559 |
| C | 80 | 104 | 0 | 107 | | | | 291 |
| D | 73 | 588 | 79 | 0 | | | | 740 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 160 | 714 | 249 | 705 | | | | 1828 |

MODELLED — HGV

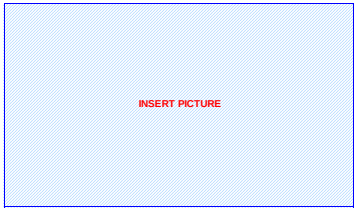
| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 15 | 85 | 187 | | | | 287 |
| B | 33 | 0 | 84 | 906 | | | | 1023 |
| C | 11 | 96 | 0 | 70 | | | | 177 |
| D | 35 | 874 | 34 | 0 | | | | 943 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 79 | 985 | 203 | 1163 | | | | 2430 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** M60 J19




**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 3283 | 5092 | 5091 | 12825 | JTC 21 - M60 SB |
| B | 14141 | 5666 | 5093 | 14141 | JTC 21 - A576 WB |
| C | 5668 | 5665 | 5667 | 5669 | JTC 21 - M60 NB |
| D | 3414 | 5096 | 5095 | 3414 | JTC 21 - A576 EB |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 542 | 0 | 939 | | | | 1481 |
| B | 535 | 0 | 255 | 344 | | | | 1134 |
| C | 0 | 210 | 48 | 545 | | | | 803 |
| D | 656 | 134 | 510 | 0 | | | | 1300 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1191 | 886 | 813 | 1828 | | | | 4718 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 416 | 0 | 779 | | | | 1195 |
| B | 409 | 0 | 197 | 308 | | | | 914 |
| C | 0 | 153 | 41 | 461 | | | | 655 |
| D | 517 | 120 | 436 | 0 | | | | 1073 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 926 | 689 | 674 | 1548 | | | | 3837 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 73 | 0 | 72 | | | | 145 |
| B | 58 | 0 | 48 | 35 | | | | 141 |
| C | 0 | 22 | 7 | 63 | | | | 92 |
| D | 54 | 11 | 56 | 0 | | | | 121 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 112 | 106 | 111 | 170 | | | | 499 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 0 | 88 | | | | 141 |
| B | 68 | 0 | 10 | 1 | | | | 79 |
| C | 0 | 35 | 0 | 21 | | | | 56 |
| D | 85 | 3 | 18 | 0 | | | | 106 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 153 | 91 | 28 | 110 | | | | 382 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 0 | | | | 0 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 409 | 0 | 588 | | | | 997 |
| B | 255 | 0 | 241 | 303 | | | | 799 |
| C | 0 | 289 | 4 | 469 | | | | 762 |
| D | 339 | 397 | 537 | 0 | | | | 1273 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 594 | 1095 | 782 | 1360 | | | | 3831 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 299 | 0 | 452 | | | | 751 |
| B | 186 | 0 | 158 | 272 | | | | 616 |
| C | 0 | 182 | 4 | 372 | | | | 558 |
| D | 248 | 359 | 423 | 0 | | | | 1030 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 434 | 840 | 585 | 1096 | | | | 2955 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 0 | 81 | | | | 156 |
| B | 41 | 0 | 35 | 27 | | | | 103 |
| C | 0 | 53 | 0 | 64 | | | | 117 |
| D | 47 | 31 | 77 | 0 | | | | 155 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 88 | 159 | 112 | 172 | | | | 531 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 35 | 0 | 55 | | | | 90 |
| B | 28 | 0 | 48 | 4 | | | | 80 |
| C | 0 | 54 | 0 | 33 | | | | 87 |
| D | 44 | 7 | 37 | 0 | | | | 88 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 72 | 96 | 85 | 92 | | | | 345 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 454 | 0 | 811 | | | | 1265 |
| B | 238 | 0 | 145 | 395 | | | | 778 |
| C | 9 | 505 | 13 | 563 | | | | 1090 |
| D | 873 | 672 | 744 | 0 | | | | 2289 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1120 | 1631 | 902 | 1769 | | | | 5422 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 377 | 0 | 750 | | | | 1127 |
| B | 204 | 0 | 125 | 363 | | | | 692 |
| C | 7 | 437 | 12 | 510 | | | | 966 |
| D | 769 | 623 | 681 | 0 | | | | 2073 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 980 | 1437 | 818 | 1623 | | | | 4858 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 53 | 0 | 42 | | | | 95 |
| B | 24 | 0 | 16 | 30 | | | | 70 |
| C | 1 | 54 | 1 | 53 | | | | 109 |
| D | 85 | 48 | 57 | 0 | | | | 190 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 110 | 155 | 74 | 125 | | | | 464 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 24 | 0 | 19 | | | | 43 |
| B | 10 | 0 | 4 | 2 | | | | 16 |
| C | 1 | 14 | 0 | 0 | | | | 15 |
| D | 19 | 1 | 6 | 0 | | | | 26 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 30 | 39 | 10 | 21 | | | | 100 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | 0 |
| B | | | | | | | | 0 |
| C | | | | | | | | 0 |
| D | | | | | | | | 0 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 0 | 0 | 0 | | | | 0 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A576 Middleton Road / A6045 Heywood Old Road

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60232 | 2391 | 2391 | 60232 | |
| B | 4435 | 2391 | 2391 | 4435 | |
| C | 60046 | 2391 | 2391 | 60046 | |
| D | 14141 | 2391 | 2391 | 14141 | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicles — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 32 | 3 | 537 | | | | 571 |
| B | 57 | 0 | 3 | 600 | | | | 660 |
| C | 2 | 4 | 0 | 15 | | | | 21 |
| D | 247 | 645 | 9 | 0 | | | | 901 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 306 | 680 | 15 | 1152 | | | | 2154 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 28 | 3 | 452 | | | | 483 |
| B | 39 | 0 | 1 | 451 | | | | 491 |
| C | 2 | 2 | 0 | 11 | | | | 15 |
| D | 205 | 477 | 7 | 0 | | | | 689 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 246 | 507 | 11 | 914 | | | | 1678 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 0 | 66 | | | | 70 |
| B | 9 | 0 | 0 | 72 | | | | 81 |
| C | 0 | 1 | 0 | 3 | | | | 4 |
| D | 22 | 83 | 1 | 0 | | | | 106 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 87 | 2 | 141 | | | | 261 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 18 | | | | 18 |
| B | 8 | 0 | 1 | 60 | | | | 70 |
| C | 0 | 1 | 0 | 1 | | | | 2 |
| D | 20 | 69 | 2 | 0 | | | | 91 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 29 | 70 | 3 | 79 | | | | 181 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 16 | 0 | 0 | | | | 16 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 0 | 16 | 0 | 18 | | | | 34 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicles — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 90 | 6 | 292 | | | | 388 |
| B | 93 | 0 | 5 | 515 | | | | 613 |
| C | 4 | 4 | 0 | 8 | | | | 16 |
| D | 471 | 632 | 8 | 0 | | | | 1111 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 569 | 726 | 18 | 815 | | | | 2128 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 74 | 4 | 241 | | | | 318 |
| B | 72 | 0 | 3 | 368 | | | | 443 |
| C | 3 | 3 | 0 | 6 | | | | 11 |
| D | 381 | 452 | 6 | 0 | | | | 838 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 455 | 528 | 13 | 614 | | | | 1610 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 12 | 1 | 31 | | | | 44 |
| B | 15 | 0 | 1 | 71 | | | | 87 |
| C | 1 | 1 | 0 | 1 | | | | 3 |
| D | 54 | 104 | 1 | 0 | | | | 159 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 70 | 118 | 3 | 103 | | | | 293 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 4 | 1 | 21 | | | | 26 |
| B | 6 | 0 | 1 | 59 | | | | 65 |
| C | 1 | 1 | 0 | 1 | | | | 2 |
| D | 37 | 58 | 1 | 0 | | | | 96 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 44 | 63 | 2 | 80 | | | | 189 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 18 | | | | 18 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.9 | 0 | 17.97 | | | | 35.87 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicles — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 85 | 2 | 322 | | | | 409 |
| B | 154 | 0 | 4 | 466 | | | | 623 |
| C | 5 | 4 | 0 | 5 | | | | 15 |
| D | 861 | 779 | 10 | 0 | | | | 1650 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1021 | 868 | 16 | 793 | | | | 2697 |

*By Vehicle Type:*

MODELLED — Car — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 75 | 2 | 294 | | | | 371 |
| B | 137 | 0 | 3 | 394 | | | | 534 |
| C | 5 | 3 | 0 | 4 | | | | 12 |
| D | 782 | 648 | 8 | 0 | | | | 1438 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 923 | 727 | 14 | 691 | | | | 2355 |

MODELLED — LGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 7 | 0 | 23 | | | | 31 |
| B | 17 | 0 | 0 | 46 | | | | 62 |
| C | 0 | 0 | 0 | 1 | | | | 2 |
| D | 67 | 88 | 1 | 0 | | | | 156 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 84 | 96 | 1 | 70 | | | | 250 |

MODELLED — HGV — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 2 | 0 | 5 | | | | 7 |
| B | 1 | 0 | 0 | 10 | | | | 11 |
| C | 0 | 1 | 0 | 1 | | | | 1 |
| D | 12 | 26 | 1 | 0 | | | | 39 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 14 | 28 | 1 | 16 | | | | 58 |

MODELLED — Fixed — To Arm / From Arm

| From Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | | | | 0 |
| B | 0 | 0 | 0 | 16 | | | | 16 |
| C | 0 | 0 | 0 | 0 | | | | 0 |
| D | 0 | 18 | 0 | 0 | | | | 18 |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 0 | 17.51 | 0 | 15.84 | | | | 33.35 |

## Junction Turning Flows, Units: PCUs Demand Flows

**Junction:** A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)

INSERT PICTURE

**Arm Description**

| Arm | Inbound | | Outbound | | Description |
|---|---|---|---|---|---|
| | A-Node | B-Node | A-Node | B-Node | |
| A | 60083 | 2244 | 2244 | 60083 | |
| B | 2756 | 2244 | 2244 | 2756 | |
| C | 4912 | 2244 | 2244 | 4913 | |
| D | | | | | |
| E | | | | | |
| F | | | | | |
| G | | | | | |

### Model_1_Heywood_DS3b_S6_2039_AM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 47 | 970 | | | | | 1017 |
| B | 0 | 0 | 1088 | | | | | 1088 |
| C | 1699 | 659 | 0 | | | | | 2358 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1699 | 706 | 2058 | | | | | 4463 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 36 | 702 | | | | | 738 |
| B | 0 | 0 | 783 | | | | | 783 |
| C | 1273 | 494 | 0 | | | | | 1767 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1273 | 530 | 1484 | | | | | 3287 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 6 | 110 | | | | | 116 |
| B | 0 | 0 | 200 | | | | | 200 |
| C | 162 | 100 | 0 | | | | | 262 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 162 | 106 | 310 | | | | | 578 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 129 | | | | | 134 |
| B | 0 | 0 | 106 | | | | | 106 |
| C | 233 | 65 | 0 | | | | | 298 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 233 | 70 | 235 | | | | | 538 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 29 | | | | | 29 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 31 | 0 | 0 | | | | | 31 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 31 | 0 | 29 | | | | | 61 |

### Model_2_Heywood_DS3b_S6_2039_IP.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 841 | | | | | 842 |
| B | 0 | 0 | 958 | | | | | 958 |
| C | 1416 | 580 | 0 | | | | | 1996 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1416 | 581 | 1799 | | | | | 3795 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 585 | | | | | 585 |
| B | 0 | 0 | 639 | | | | | 639 |
| C | 992 | 377 | 0 | | | | | 1369 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 992 | 378 | 1224 | | | | | 2593 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 101 | | | | | 101 |
| B | 0 | 0 | 183 | | | | | 183 |
| C | 188 | 123 | 0 | | | | | 311 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 188 | 123 | 284 | | | | | 595 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 125 | | | | | 125 |
| B | 0 | 0 | 136 | | | | | 136 |
| C | 204 | 80 | 0 | | | | | 284 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 204 | 80 | 261 | | | | | 545 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 30 | | | | | 30 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 32 | 0 | 0 | | | | | 32 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 31.77 | 0 | 29.82 | | | | | 61.59 |

### Model_3_Heywood_DS3b_S6_2039_PM.UFS

MODELLED — All Vehicle

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 5 | 949 | | | | | 954 |
| B | 0 | 0 | 982 | | | | | 982 |
| C | 1635 | 705 | 0 | | | | | 2340 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1635 | 710 | 1931 | | | | | 4276 |

*By Vehicle Type:*

MODELLED — Car

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 3 | 852 | | | | | 855 |
| B | 0 | 0 | 877 | | | | | 877 |
| C | 1437 | 591 | 0 | | | | | 2028 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 1437 | 593 | 1730 | | | | | 3760 |

MODELLED — LGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 48 | | | | | 49 |
| B | 0 | 0 | 74 | | | | | 74 |
| C | 112 | 73 | 0 | | | | | 185 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 112 | 74 | 122 | | | | | 308 |

MODELLED — HGV

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 1 | 21 | | | | | 22 |
| B | 0 | 0 | 30 | | | | | 30 |
| C | 57 | 41 | 0 | | | | | 98 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| TOTAL | 57 | 42 | 52 | | | | | 151 |

MODELLED — Fixed

| From Arm \ To Arm | A | B | C | D | E | F | G | TOTAL |
|---|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 27 | | | | | 27 |
| B | 0 | 0 | 0 | | | | | 0 |
| C | 29 | 0 | 0 | | | | | 29 |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| | 29.18 | 0 | 27.36 | | | | | 56.54 |