STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes SFA7

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	0
M5-60 (mm)	19.000	Minimum Backdrop Height (m)	0.200
Ratio R	0.294	Maximum Backdrop Height (m)	1.500
Maximum Rainfall (mm/hr)	0	Min Design Depth for Optimisation (m)	0.450
Maximum Time of Concentration (mins)	30	Min Vel for Auto Design only (m/s)	1.00
Foul Sewage (l/s/ha)	0.000	Min Slope for Optimisation (1:X)	500
Volumetric Runoff Coeff.	0.750		

Designed with Level Soffits

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
S1.000	31.168	0.632	49.3	0.012	5.00	0.0	0.600	o	100	
S2.000	28.150	0.469	60.0	0.020	5.00	0.0	0.600	o	100	
S2.001	13.047	0.163	80.0	0.012	0.00	0.0	0.600	o	150	
S1.001	9.673	0.510	19.0	0.001	0.00	0.0	0.600	o	150	
S3.000	23.608	0.393	60.1	0.015	5.00	0.0	0.600	o	150	
S3.001	12.146	0.252	48.2	0.000	0.00	0.0	0.600	o	150	
S4.000	23.608	0.595	39.7	0.010	5.00	0.0	0.600	o	150	
S3.002	3.792	0.047	80.7	0.000	0.00	0.0	0.600	o	150	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
S1.000	0.00	5.47	136.300	0.012	0.0	0.0	0.0	1.10	8.6	0.0
S2.000	0.00	5.47	136.300	0.020	0.0	0.0	0.0	1.00	7.8	0.0
S2.001	0.00	5.66	135.781	0.031	0.0	0.0	0.0	1.12	19.9	0.0
S1.001	0.00	5.73	135.618	0.045	0.0	0.0	0.0	2.32	41.1	0.0
S3.000	0.00	5.30	135.800	0.015	0.0	0.0	0.0	1.30	23.0	0.0
S3.001	0.00	5.44	135.407	0.015	0.0	0.0	0.0	1.45	25.7	0.0
S4.000	0.00	5.25	135.800	0.010	0.0	0.0	0.0	1.60	28.3	0.0
S3.002	0.00	5.50	135.155	0.025	0.0	0.0	0.0	1.12	19.8	0.0

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Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
S5.000	11.212	0.187	60.0	0.010	5.00	0.0	0.600	o	100	
S5.001	12.290	0.555	22.1	0.002	0.00	0.0	0.600	o	100	
S1.002	8.664	0.108	80.2	0.000	0.00	0.0	0.600	o	225	
S1.003	6.781	0.136	49.9	0.002	0.00	0.0	0.600	o	225	
S1.004	4.765	0.095	50.2	0.034	0.00	0.0	0.600	o	225	
S1.005	3.921	0.078	50.3	0.000	0.00	0.0	0.600	o	150	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
S5.000	0.00	5.19	135.900	0.010	0.0	0.0	0.0	1.00	7.8	0.0
S5.001	0.00	5.31	135.713	0.012	0.0	0.0	0.0	1.65	12.9	0.0
S1.002	0.00	5.83	135.033	0.082	0.0	0.0	0.0	1.46	58.1	0.0
S1.003	0.00	5.89	134.925	0.084	0.0	0.0	0.0	1.86	73.8	0.0
S1.004	0.00	5.94	134.789	0.118	0.0	0.0	0.0	1.85	73.6	0.0
S1.005	0.00	5.98	134.694	0.118	0.0	0.0	0.0	1.42	25.1	0.0

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Area Summary for Storm

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	User	-	100	0.012	0.012	0.012
2.000	User	-	100	0.002	0.002	0.002
	User	-	100	0.014	0.014	0.016
	User	-	100	0.002	0.002	0.018
	User	-	100	0.001	0.001	0.020
2.001	User	-	100	0.012	0.012	0.012
1.001	-	-	100	0.001	0.001	0.001
3.000	User	-	100	0.015	0.015	0.015
3.001	-	-	100	0.000	0.000	0.000
4.000	User	-	100	0.010	0.010	0.010
3.002	-	-	100	0.000	0.000	0.000
5.000	User	-	100	0.010	0.010	0.010
5.001	User	-	100	0.002	0.002	0.002
1.002	-	-	100	0.000	0.000	0.000
1.003	User	-	100	0.002	0.002	0.002
1.004	-	-	100	0.034	0.034	0.034
1.005	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.118	0.118	0.118

Surcharged Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
S1.005	S	136.200	134.616	0.000	1200	0

Datum (m) 134.766 Offset (mins) 0

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
5	1.000	85	1.000	165	1.000	245	1.000	325	1.000	405	1.000
10	1.000	90	1.000	170	1.000	250	1.000	330	1.000	410	1.000
15	1.000	95	1.000	175	1.000	255	1.000	335	1.000	415	1.000
20	1.000	100	1.000	180	1.000	260	1.000	340	1.000	420	1.000
25	1.000	105	1.000	185	1.000	265	1.000	345	1.000	425	1.000
30	1.000	110	1.000	190	1.000	270	1.000	350	1.000	430	1.000
35	1.000	115	1.000	195	1.000	275	1.000	355	1.000	435	1.000
40	1.000	120	1.000	200	1.000	280	1.000	360	1.000	440	1.000
45	1.000	125	1.000	205	1.000	285	1.000	365	1.000	445	1.000
50	1.000	130	1.000	210	1.000	290	1.000	370	1.000	450	1.000
55	1.000	135	1.000	215	1.000	295	1.000	375	1.000	455	1.000
60	1.000	140	1.000	220	1.000	300	1.000	380	1.000	460	1.000
65	1.000	145	1.000	225	1.000	305	1.000	385	1.000	465	1.000
70	1.000	150	1.000	230	1.000	310	1.000	390	1.000	470	1.000
75	1.000	155	1.000	235	1.000	315	1.000	395	1.000	475	1.000
80	1.000	160	1.000	240	1.000	320	1.000	400	1.000	480	1.000

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Surcharged Outfall Details for Storm

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
485	1.000	735	1.000	985	1.000	1235	1.000	1485	1.000	1735	1.000
490	1.000	740	1.000	990	1.000	1240	1.000	1490	1.000	1740	1.000
495	1.000	745	1.000	995	1.000	1245	1.000	1495	1.000	1745	1.000
500	1.000	750	1.000	1000	1.000	1250	1.000	1500	1.000	1750	1.000
505	1.000	755	1.000	1005	1.000	1255	1.000	1505	1.000	1755	1.000
510	1.000	760	1.000	1010	1.000	1260	1.000	1510	1.000	1760	1.000
515	1.000	765	1.000	1015	1.000	1265	1.000	1515	1.000	1765	1.000
520	1.000	770	1.000	1020	1.000	1270	1.000	1520	1.000	1770	1.000
525	1.000	775	1.000	1025	1.000	1275	1.000	1525	1.000	1775	1.000
530	1.000	780	1.000	1030	1.000	1280	1.000	1530	1.000	1780	1.000
535	1.000	785	1.000	1035	1.000	1285	1.000	1535	1.000	1785	1.000
540	1.000	790	1.000	1040	1.000	1290	1.000	1540	1.000	1790	1.000
545	1.000	795	1.000	1045	1.000	1295	1.000	1545	1.000	1795	1.000
550	1.000	800	1.000	1050	1.000	1300	1.000	1550	1.000	1800	1.000
555	1.000	805	1.000	1055	1.000	1305	1.000	1555	1.000	1805	1.000
560	1.000	810	1.000	1060	1.000	1310	1.000	1560	1.000	1810	1.000
565	1.000	815	1.000	1065	1.000	1315	1.000	1565	1.000	1815	1.000
570	1.000	820	1.000	1070	1.000	1320	1.000	1570	1.000	1820	1.000
575	1.000	825	1.000	1075	1.000	1325	1.000	1575	1.000	1825	1.000
580	1.000	830	1.000	1080	1.000	1330	1.000	1580	1.000	1830	1.000
585	1.000	835	1.000	1085	1.000	1335	1.000	1585	1.000	1835	1.000
590	1.000	840	1.000	1090	1.000	1340	1.000	1590	1.000	1840	1.000
595	1.000	845	1.000	1095	1.000	1345	1.000	1595	1.000	1845	1.000
600	1.000	850	1.000	1100	1.000	1350	1.000	1600	1.000	1850	1.000
605	1.000	855	1.000	1105	1.000	1355	1.000	1605	1.000	1855	1.000
610	1.000	860	1.000	1110	1.000	1360	1.000	1610	1.000	1860	1.000
615	1.000	865	1.000	1115	1.000	1365	1.000	1615	1.000	1865	1.000
620	1.000	870	1.000	1120	1.000	1370	1.000	1620	1.000	1870	1.000
625	1.000	875	1.000	1125	1.000	1375	1.000	1625	1.000	1875	1.000
630	1.000	880	1.000	1130	1.000	1380	1.000	1630	1.000	1880	1.000
635	1.000	885	1.000	1135	1.000	1385	1.000	1635	1.000	1885	1.000
640	1.000	890	1.000	1140	1.000	1390	1.000	1640	1.000	1890	1.000
645	1.000	895	1.000	1145	1.000	1395	1.000	1645	1.000	1895	1.000
650	1.000	900	1.000	1150	1.000	1400	1.000	1650	1.000	1900	1.000
655	1.000	905	1.000	1155	1.000	1405	1.000	1655	1.000	1905	1.000
660	1.000	910	1.000	1160	1.000	1410	1.000	1660	1.000	1910	1.000
665	1.000	915	1.000	1165	1.000	1415	1.000	1665	1.000	1915	1.000
670	1.000	920	1.000	1170	1.000	1420	1.000	1670	1.000	1920	1.000
675	1.000	925	1.000	1175	1.000	1425	1.000	1675	1.000	1925	1.000
680	1.000	930	1.000	1180	1.000	1430	1.000	1680	1.000	1930	1.000
685	1.000	935	1.000	1185	1.000	1435	1.000	1685	1.000	1935	1.000
690	1.000	940	1.000	1190	1.000	1440	1.000	1690	1.000	1940	1.000
695	1.000	945	1.000	1195	1.000	1445	1.000	1695	1.000	1945	1.000
700	1.000	950	1.000	1200	1.000	1450	1.000	1700	1.000	1950	1.000
705	1.000	955	1.000	1205	1.000	1455	1.000	1705	1.000	1955	1.000
710	1.000	960	1.000	1210	1.000	1460	1.000	1710	1.000	1960	1.000
715	1.000	965	1.000	1215	1.000	1465	1.000	1715	1.000	1965	1.000
720	1.000	970	1.000	1220	1.000	1470	1.000	1720	1.000	1970	1.000
725	1.000	975	1.000	1225	1.000	1475	1.000	1725	1.000	1975	1.000
730	1.000	980	1.000	1230	1.000	1480	1.000	1730	1.000	1980	1.000

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Surcharged Outfall Details for Storm

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
1985	1.000	2135	1.000	2285	1.000	2435	1.000	2585	1.000	2735	1.000
1990	1.000	2140	1.000	2290	1.000	2440	1.000	2590	1.000	2740	1.000
1995	1.000	2145	1.000	2295	1.000	2445	1.000	2595	1.000	2745	1.000
2000	1.000	2150	1.000	2300	1.000	2450	1.000	2600	1.000	2750	1.000
2005	1.000	2155	1.000	2305	1.000	2455	1.000	2605	1.000	2755	1.000
2010	1.000	2160	1.000	2310	1.000	2460	1.000	2610	1.000	2760	1.000
2015	1.000	2165	1.000	2315	1.000	2465	1.000	2615	1.000	2765	1.000
2020	1.000	2170	1.000	2320	1.000	2470	1.000	2620	1.000	2770	1.000
2025	1.000	2175	1.000	2325	1.000	2475	1.000	2625	1.000	2775	1.000
2030	1.000	2180	1.000	2330	1.000	2480	1.000	2630	1.000	2780	1.000
2035	1.000	2185	1.000	2335	1.000	2485	1.000	2635	1.000	2785	1.000
2040	1.000	2190	1.000	2340	1.000	2490	1.000	2640	1.000	2790	1.000
2045	1.000	2195	1.000	2345	1.000	2495	1.000	2645	1.000	2795	1.000
2050	1.000	2200	1.000	2350	1.000	2500	1.000	2650	1.000	2800	1.000
2055	1.000	2205	1.000	2355	1.000	2505	1.000	2655	1.000	2805	1.000
2060	1.000	2210	1.000	2360	1.000	2510	1.000	2660	1.000	2810	1.000
2065	1.000	2215	1.000	2365	1.000	2515	1.000	2665	1.000	2815	1.000
2070	1.000	2220	1.000	2370	1.000	2520	1.000	2670	1.000	2820	1.000
2075	1.000	2225	1.000	2375	1.000	2525	1.000	2675	1.000	2825	1.000
2080	1.000	2230	1.000	2380	1.000	2530	1.000	2680	1.000	2830	1.000
2085	1.000	2235	1.000	2385	1.000	2535	1.000	2685	1.000	2835	1.000
2090	1.000	2240	1.000	2390	1.000	2540	1.000	2690	1.000	2840	1.000
2095	1.000	2245	1.000	2395	1.000	2545	1.000	2695	1.000	2845	1.000
2100	1.000	2250	1.000	2400	1.000	2550	1.000	2700	1.000	2850	1.000
2105	1.000	2255	1.000	2405	1.000	2555	1.000	2705	1.000	2855	1.000
2110	1.000	2260	1.000	2410	1.000	2560	1.000	2710	1.000	2860	1.000
2115	1.000	2265	1.000	2415	1.000	2565	1.000	2715	1.000	2865	1.000
2120	1.000	2270	1.000	2420	1.000	2570	1.000	2720	1.000	2870	1.000
2125	1.000	2275	1.000	2425	1.000	2575	1.000	2725	1.000	2875	1.000
2130	1.000	2280	1.000	2430	1.000	2580	1.000	2730	1.000	2880	1.000

Simulation Criteria for Storm

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR M5-60 (mm)	19.000
Return Period (years)		2 Ratio R	0.294
Region	England and Wales	Profile Type	Summer

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Synthetic Rainfall Details

Cv (Summer) 0.750 Storm Duration (mins) 30
Cv (Winter) 0.840

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Online Controls for Storm

Orifice Manhole: S14, DS/PN: S1.005, Volume (m³): 4.1

Diameter (m) 0.112 Discharge Coefficient 0.600 Invert Level (m) 134.694

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Storage Structures for Storm

Cellular Storage Manhole: S14, DS/PN: S1.005

Invert Level (m) 135.400 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	25.0	0.0	0.401	0.0	0.0
0.400	25.0	0.0			

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Summary Wizard of 15 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	8	136.332	-0.068	0.000	0.21	0.0	1.8	OK
S2.000	S2	8	136.343	-0.057	0.000	0.37	0.0	2.9	OK
S2.001	S3	22	135.831	-0.100	0.000	0.24	0.0	4.3	OK
S1.001	S2	73	135.660	-0.108	0.000	0.17	0.0	6.2	OK
S3.000	S5	21	135.832	-0.118	0.000	0.10	0.0	2.1	OK
S3.001	S6	76	135.536	-0.021	0.000	0.09	0.0	2.1	OK
S4.000	S7	22	135.823	-0.127	0.000	0.06	0.0	1.5	OK
S3.002	S7	76	135.536	0.231	0.000	0.23	0.0	3.1	SURCHARGED
S5.000	S9	13	135.931	-0.069	0.000	0.20	0.0	1.5	OK
S5.001	S10	70	135.738	-0.075	0.000	0.14	0.0	1.8	OK
S1.002	S3	76	135.536	0.278	0.000	0.21	0.0	9.7	SURCHARGED
S1.003	S4	76	135.537	0.387	0.000	0.19	0.0	9.9	SURCHARGED
S1.004	S5	76	135.537	0.523	0.000	0.30	0.0	13.0	SURCHARGED
S1.005	S14	76	135.537	0.693	0.000	0.00	0.0	0.0	SURCHARGED

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Summary Wizard of 30 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	9	136.330	-0.070	0.000	0.20	0.0	1.7	OK
S2.000	S2	9	136.341	-0.059	0.000	0.36	0.0	2.7	OK
S2.001	S3	23	135.829	-0.102	0.000	0.23	0.0	4.1	OK
S1.001	S2	74	135.658	-0.110	0.000	0.16	0.0	5.9	OK
S3.000	S5	22	135.831	-0.119	0.000	0.09	0.0	2.0	OK
S3.001	S6	73	135.627	0.070	0.000	0.08	0.0	1.8	SURCHARGED
S4.000	S7	24	135.822	-0.128	0.000	0.05	0.0	1.4	OK
S3.002	S7	73	135.627	0.322	0.000	0.19	0.0	2.5	SURCHARGED
S5.000	S9	14	135.930	-0.070	0.000	0.19	0.0	1.4	OK
S5.001	S10	71	135.737	-0.076	0.000	0.14	0.0	1.7	OK
S1.002	S3	73	135.627	0.369	0.000	0.21	0.0	9.8	SURCHARGED
S1.003	S4	73	135.628	0.478	0.000	0.19	0.0	9.9	SURCHARGED
S1.004	S5	73	135.628	0.614	0.000	0.31	0.0	13.5	SURCHARGED
S1.005	S14	73	135.628	0.784	0.000	0.00	0.0	0.0	SURCHARGED

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Summary Wizard of 60 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	14	136.326	-0.074	0.000	0.15	0.0	1.3	OK
S2.000	S2	14	136.336	-0.064	0.000	0.26	0.0	2.0	OK
S2.001	S3	27	135.824	-0.107	0.000	0.18	0.0	3.2	OK
S1.001	S2	69	135.733	-0.035	0.000	0.13	0.0	4.6	OK
S3.000	S5	25	135.826	-0.124	0.000	0.07	0.0	1.5	OK
S3.001	S6	69	135.733	0.176	0.000	0.05	0.0	1.3	SURCHARGED
S4.000	S7	27	135.820	-0.130	0.000	0.04	0.0	1.1	OK
S3.002	S7	69	135.733	0.428	0.000	0.14	0.0	1.9	SURCHARGED
S5.000	S9	16	135.926	-0.074	0.000	0.15	0.0	1.1	OK
S5.001	S10	73	135.735	-0.078	0.000	0.10	0.0	1.3	OK
S1.002	S3	69	135.733	0.475	0.000	0.16	0.0	7.4	SURCHARGED
S1.003	S4	69	135.734	0.584	0.000	0.14	0.0	7.5	SURCHARGED
S1.004	S5	69	135.734	0.720	0.000	0.24	0.0	10.6	SURCHARGED
S1.005	S14	69	135.734	0.890	0.000	0.00	0.0	0.0	SURCHARGED

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Summary Wizard of 120 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	18	136.322	-0.078	0.000	0.11	0.0	0.9	OK
S2.000	S2	18	136.329	-0.071	0.000	0.19	0.0	1.4	OK
S2.001	S3	35	135.816	-0.115	0.000	0.12	0.0	2.3	OK
S1.001	S2	47	135.787	0.019	0.000	0.09	0.0	3.2	SURCHARGED
S3.000	S5	30	135.821	-0.129	0.000	0.05	0.0	1.1	OK
S3.001	S6	47	135.786	0.229	0.000	0.03	0.0	0.7	SURCHARGED
S4.000	S7	30	135.817	-0.133	0.000	0.03	0.0	0.8	OK
S3.002	S7	47	135.785	0.480	0.000	0.09	0.0	1.2	SURCHARGED
S5.000	S9	18	135.921	-0.079	0.000	0.10	0.0	0.7	OK
S5.001	S10	47	135.786	-0.027	0.000	0.07	0.0	0.9	OK
S1.002	S3	47	135.785	0.527	0.000	0.11	0.0	5.1	SURCHARGED
S1.003	S4	47	135.784	0.634	0.000	0.10	0.0	5.2	SURCHARGED
S1.004	S5	47	135.783	0.769	0.000	0.17	0.0	7.5	SURCHARGED
S1.005	S14	47	135.782	0.938	0.000	0.07	0.0	1.3	SURCHARGED

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Summary Wizard of 180 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	21	136.320	-0.080	0.000	0.09	0.0	0.7	OK
S2.000	S2	21	136.326	-0.074	0.000	0.15	0.0	1.2	OK
S2.001	S3	40	135.813	-0.118	0.000	0.10	0.0	1.8	OK
S1.001	S2	37	135.800	0.032	0.000	0.07	0.0	2.6	SURCHARGED
S3.000	S5	32	135.819	-0.131	0.000	0.04	0.0	0.9	OK
S3.001	S6	37	135.799	0.242	0.000	0.03	0.0	0.6	SURCHARGED
S4.000	S7	36	135.815	-0.135	0.000	0.02	0.0	0.6	OK
S3.002	S7	37	135.798	0.493	0.000	0.07	0.0	1.0	SURCHARGED
S5.000	S9	21	135.919	-0.081	0.000	0.08	0.0	0.6	OK
S5.001	S10	37	135.800	-0.013	0.000	0.06	0.0	0.7	OK
S1.002	S3	37	135.798	0.540	0.000	0.09	0.0	4.2	SURCHARGED
S1.003	S4	37	135.796	0.646	0.000	0.08	0.0	4.2	SURCHARGED
S1.004	S5	37	135.794	0.780	0.000	0.14	0.0	6.0	SURCHARGED
S1.005	S14	37	135.793	0.949	0.000	0.12	0.0	2.1	SURCHARGED

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Summary Wizard of 240 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	25	136.318	-0.082	0.000	0.07	0.0	0.6	OK
S2.000	S2	25	136.324	-0.076	0.000	0.13	0.0	1.0	OK
S2.001	S3	38	135.814	-0.117	0.000	0.09	0.0	1.6	OK
S1.001	S2	29	135.809	0.041	0.000	0.06	0.0	2.1	SURCHARGED
S3.000	S5	39	135.818	-0.132	0.000	0.03	0.0	0.7	OK
S3.001	S6	29	135.808	0.251	0.000	0.02	0.0	0.5	SURCHARGED
S4.000	S7	40	135.814	-0.136	0.000	0.02	0.0	0.5	OK
S3.002	S7	29	135.806	0.501	0.000	0.06	0.0	0.8	SURCHARGED
S5.000	S9	25	135.917	-0.083	0.000	0.07	0.0	0.5	OK
S5.001	S10	29	135.808	-0.005	0.000	0.05	0.0	0.6	OK
S1.002	S3	29	135.805	0.547	0.000	0.07	0.0	3.5	SURCHARGED
S1.003	S4	29	135.803	0.653	0.000	0.07	0.0	3.5	SURCHARGED
S1.004	S5	29	135.801	0.787	0.000	0.12	0.0	5.1	SURCHARGED
S1.005	S14	29	135.799	0.955	0.000	0.15	0.0	2.6	SURCHARGED

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Summary Wizard of 360 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	30	136.315	-0.085	0.000	0.06	0.0	0.5	OK
S2.000	S2	30	136.321	-0.079	0.000	0.10	0.0	0.7	OK
S2.001	S3	34	135.816	-0.115	0.000	0.07	0.0	1.2	OK
S1.001	S2	26	135.813	0.045	0.000	0.04	0.0	1.6	SURCHARGED
S3.000	S5	37	135.819	-0.131	0.000	0.03	0.0	0.6	OK
S3.001	S6	26	135.811	0.254	0.000	0.02	0.0	0.4	SURCHARGED
S4.000	S7	35	135.816	-0.134	0.000	0.01	0.0	0.4	OK
S3.002	S7	26	135.810	0.505	0.000	0.05	0.0	0.7	SURCHARGED
S5.000	S9	30	135.915	-0.085	0.000	0.05	0.0	0.4	OK
S5.001	S10	26	135.812	-0.001	0.000	0.04	0.0	0.5	OK
S1.002	S3	26	135.809	0.551	0.000	0.06	0.0	2.6	SURCHARGED
S1.003	S4	26	135.807	0.657	0.000	0.05	0.0	2.6	SURCHARGED
S1.004	S5	26	135.805	0.791	0.000	0.09	0.0	3.8	SURCHARGED
S1.005	S14	26	135.802	0.958	0.000	0.17	0.0	3.0	SURCHARGED

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Summary Wizard of 480 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	34	136.314	-0.086	0.000	0.05	0.0	0.4	OK
S2.000	S2	34	136.319	-0.081	0.000	0.08	0.0	0.6	OK
S2.001	S3	30	135.818	-0.113	0.000	0.05	0.0	1.0	OK
S1.001	S2	22	135.815	0.047	0.000	0.03	0.0	1.2	SURCHARGED
S3.000	S5	31	135.819	-0.131	0.000	0.02	0.0	0.5	OK
S3.001	S6	22	135.813	0.256	0.000	0.02	0.0	0.4	SURCHARGED
S4.000	S7	31	135.816	-0.134	0.000	0.01	0.0	0.3	OK
S3.002	S7	22	135.812	0.507	0.000	0.05	0.0	0.6	SURCHARGED
S5.000	S9	34	135.913	-0.087	0.000	0.04	0.0	0.3	OK
S5.001	S10	22	135.814	0.001	0.000	0.03	0.0	0.4	SURCHARGED
S1.002	S3	22	135.811	0.553	0.000	0.05	0.0	2.1	SURCHARGED
S1.003	S4	22	135.809	0.659	0.000	0.04	0.0	2.2	SURCHARGED
S1.004	S5	22	135.807	0.793	0.000	0.07	0.0	3.1	SURCHARGED
S1.005	S14	22	135.804	0.960	0.000	0.17	0.0	2.9	SURCHARGED

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Summary Wizard of 600 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	37	136.313	-0.087	0.000	0.04	0.0	0.3	OK
S2.000	S2	37	136.317	-0.083	0.000	0.07	0.0	0.5	OK
S2.001	S3	36	135.815	-0.116	0.000	0.05	0.0	0.8	OK
S1.001	S2	27	135.811	0.043	0.000	0.03	0.0	1.1	SURCHARGED
S3.000	S5	38	135.818	-0.132	0.000	0.02	0.0	0.4	OK
S3.001	S6	27	135.810	0.253	0.000	0.02	0.0	0.4	SURCHARGED
S4.000	S7	38	135.815	-0.135	0.000	0.01	0.0	0.3	OK
S3.002	S7	27	135.808	0.503	0.000	0.04	0.0	0.6	SURCHARGED
S5.000	S9	37	135.913	-0.087	0.000	0.04	0.0	0.3	OK
S5.001	S10	27	135.810	-0.003	0.000	0.03	0.0	0.3	OK
S1.002	S3	27	135.807	0.549	0.000	0.04	0.0	2.0	SURCHARGED
S1.003	S4	27	135.805	0.655	0.000	0.04	0.0	2.1	SURCHARGED
S1.004	S5	27	135.803	0.789	0.000	0.07	0.0	3.0	SURCHARGED
S1.005	S14	27	135.801	0.957	0.000	0.16	0.0	2.8	SURCHARGED

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Summary Wizard of 720 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	40	136.312	-0.088	0.000	0.04	0.0	0.3	OK
S2.000	S2	40	136.316	-0.084	0.000	0.06	0.0	0.5	OK
S2.001	S3	37	135.814	-0.117	0.000	0.04	0.0	0.8	OK
S1.001	S2	28	135.810	0.042	0.000	0.03	0.0	1.1	SURCHARGED
S3.000	S5	40	135.817	-0.133	0.000	0.02	0.0	0.4	OK
S3.001	S6	28	135.809	0.252	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	39	135.814	-0.136	0.000	0.01	0.0	0.2	OK
S3.002	S7	28	135.807	0.502	0.000	0.04	0.0	0.6	SURCHARGED
S5.000	S9	40	135.912	-0.088	0.000	0.03	0.0	0.2	OK
S5.001	S10	28	135.809	-0.004	0.000	0.02	0.0	0.3	OK
S1.002	S3	28	135.806	0.548	0.000	0.04	0.0	1.9	SURCHARGED
S1.003	S4	28	135.804	0.654	0.000	0.04	0.0	2.0	SURCHARGED
S1.004	S5	28	135.802	0.788	0.000	0.06	0.0	2.8	SURCHARGED
S1.005	S14	28	135.800	0.956	0.000	0.15	0.0	2.6	SURCHARGED

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Summary Wizard of 960 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	43	136.311	-0.089	0.000	0.03	0.0	0.2	OK
S2.000	S2	43	136.315	-0.085	0.000	0.05	0.0	0.4	OK
S2.001	S3	43	135.809	-0.122	0.000	0.03	0.0	0.6	OK
S1.001	S2	33	135.804	0.036	0.000	0.02	0.0	0.9	SURCHARGED
S3.000	S5	43	135.815	-0.135	0.000	0.01	0.0	0.3	OK
S3.001	S6	33	135.803	0.246	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	43	135.811	-0.139	0.000	0.01	0.0	0.2	OK
S3.002	S7	33	135.802	0.497	0.000	0.04	0.0	0.5	SURCHARGED
S5.000	S9	43	135.911	-0.089	0.000	0.03	0.0	0.2	OK
S5.001	S10	33	135.803	-0.010	0.000	0.02	0.0	0.2	OK
S1.002	S3	33	135.801	0.543	0.000	0.04	0.0	1.6	SURCHARGED
S1.003	S4	33	135.799	0.649	0.000	0.03	0.0	1.7	SURCHARGED
S1.004	S5	32	135.797	0.783	0.000	0.05	0.0	2.4	SURCHARGED
S1.005	S14	32	135.795	0.951	0.000	0.13	0.0	2.3	SURCHARGED

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Summary Wizard of 1440 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	48	136.310	-0.090	0.000	0.02	0.0	0.2	OK
S2.000	S2	48	136.313	-0.087	0.000	0.04	0.0	0.3	OK
S2.001	S3	48	135.803	-0.128	0.000	0.03	0.0	0.5	OK
S1.001	S2	40	135.795	0.027	0.000	0.02	0.0	0.7	SURCHARGED
S3.000	S5	48	135.810	-0.140	0.000	0.01	0.0	0.2	OK
S3.001	S6	40	135.794	0.237	0.000	0.01	0.0	0.2	SURCHARGED
S4.000	S7	47	135.807	-0.143	0.000	0.01	0.0	0.2	OK
S3.002	S7	40	135.793	0.488	0.000	0.03	0.0	0.4	SURCHARGED
S5.000	S9	48	135.910	-0.090	0.000	0.02	0.0	0.2	OK
S5.001	S10	40	135.794	-0.019	0.000	0.02	0.0	0.2	OK
S1.002	S3	40	135.793	0.535	0.000	0.03	0.0	1.3	SURCHARGED
S1.003	S4	40	135.791	0.641	0.000	0.02	0.0	1.3	SURCHARGED
S1.004	S5	40	135.790	0.776	0.000	0.04	0.0	1.8	SURCHARGED
S1.005	S14	40	135.789	0.945	0.000	0.10	0.0	1.8	SURCHARGED

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Summary Wizard of 2160 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	51	136.308	-0.092	0.000	0.02	0.0	0.1	OK
S2.000	S2	51	136.311	-0.089	0.000	0.03	0.0	0.2	OK
S2.001	S3	51	135.799	-0.132	0.000	0.02	0.0	0.4	OK
S1.001	S2	43	135.789	0.021	0.000	0.01	0.0	0.5	SURCHARGED
S3.000	S5	51	135.807	-0.143	0.000	0.01	0.0	0.2	OK
S3.001	S6	43	135.788	0.231	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	53	135.804	-0.146	0.000	0.00	0.0	0.1	OK
S3.002	S7	43	135.787	0.482	0.000	0.06	0.0	0.9	SURCHARGED
S5.000	S9	51	135.908	-0.092	0.000	0.02	0.0	0.1	OK
S5.001	S10	43	135.788	-0.025	0.000	0.01	0.0	0.1	OK
S1.002	S3	43	135.787	0.529	0.000	0.03	0.0	1.4	SURCHARGED
S1.003	S4	43	135.786	0.636	0.000	0.04	0.0	1.8	SURCHARGED
S1.004	S5	43	135.785	0.771	0.000	0.05	0.0	2.1	SURCHARGED
S1.005	S14	43	135.784	0.940	0.000	0.55	0.0	9.7	SURCHARGED

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Summary Wizard of 2880 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	55	136.307	-0.093	0.000	0.01	0.0	0.1	OK
S2.000	S2	55	136.311	-0.089	0.000	0.03	0.0	0.2	OK
S2.001	S3	55	135.797	-0.134	0.000	0.02	0.0	0.3	OK
S1.001	S2	48	135.785	0.017	0.000	0.01	0.0	0.4	SURCHARGED
S3.000	S5	55	135.806	-0.144	0.000	0.01	0.0	0.1	OK
S3.001	S6	48	135.784	0.227	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	55	135.803	-0.147	0.000	0.00	0.0	0.1	OK
S3.002	S7	48	135.784	0.479	0.000	0.06	0.0	0.9	SURCHARGED
S5.000	S9	55	135.907	-0.093	0.000	0.01	0.0	0.1	OK
S5.001	S10	48	135.785	-0.028	0.000	0.01	0.0	0.1	OK
S1.002	S3	48	135.783	0.525	0.000	0.03	0.0	1.5	SURCHARGED
S1.003	S4	48	135.783	0.633	0.000	0.04	0.0	1.9	SURCHARGED
S1.004	S5	48	135.782	0.768	0.000	0.05	0.0	2.2	SURCHARGED
S1.005	S14	48	135.781	0.937	0.000	0.56	0.0	9.8	SURCHARGED

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Summary Wizard of 4320 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	60	136.305	-0.095	0.000	0.01	0.0	0.1	OK
S2.000	S2	60	136.309	-0.091	0.000	0.02	0.0	0.2	OK
S2.001	S3	59	135.795	-0.136	0.000	0.01	0.0	0.2	OK
S1.001	S2	52	135.781	0.013	0.000	0.01	0.0	0.3	SURCHARGED
S3.000	S5	59	135.804	-0.146	0.000	0.01	0.0	0.1	OK
S3.001	S6	52	135.780	0.223	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	59	135.803	-0.147	0.000	0.00	0.0	0.1	OK
S3.002	S7	52	135.780	0.475	0.000	0.07	0.0	0.9	SURCHARGED
S5.000	S9	60	135.905	-0.095	0.000	0.01	0.0	0.1	OK
S5.001	S10	52	135.780	-0.033	0.000	0.01	0.0	0.1	OK
S1.002	S3	52	135.779	0.521	0.000	0.03	0.0	1.6	SURCHARGED
S1.003	S4	52	135.779	0.629	0.000	0.04	0.0	1.9	SURCHARGED
S1.004	S5	52	135.778	0.764	0.000	0.05	0.0	2.3	SURCHARGED
S1.005	S14	52	135.777	0.933	0.000	0.57	0.0	9.9	SURCHARGED

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Summary Wizard of 5760 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	65	136.304	-0.096	0.000	0.01	0.0	0.1	OK
S2.000	S2	65	136.308	-0.092	0.000	0.02	0.0	0.1	OK
S2.001	S3	62	135.792	-0.139	0.000	0.01	0.0	0.2	OK
S1.001	S2	56	135.777	0.009	0.000	0.01	0.0	0.4	SURCHARGED
S3.000	S5	64	135.803	-0.147	0.000	0.00	0.0	0.1	OK
S3.001	S6	56	135.777	0.220	0.000	0.02	0.0	0.4	SURCHARGED
S4.000	S7	64	135.802	-0.148	0.000	0.00	0.0	0.1	OK
S3.002	S7	56	135.777	0.472	0.000	0.08	0.0	1.1	SURCHARGED
S5.000	S9	65	135.904	-0.096	0.000	0.01	0.0	0.1	OK
S5.001	S10	56	135.777	-0.036	0.000	0.01	0.0	0.1	OK
S1.002	S3	56	135.777	0.519	0.000	0.04	0.0	1.9	SURCHARGED
S1.003	S4	56	135.776	0.626	0.000	0.04	0.0	2.3	SURCHARGED
S1.004	S5	56	135.776	0.762	0.000	0.07	0.0	3.0	SURCHARGED
S1.005	S14	56	135.775	0.931	0.000	0.60	0.0	10.6	SURCHARGED

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Summary Wizard of 7200 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	68	136.304	-0.096	0.000	0.01	0.0	0.1	OK
S2.000	S2	68	136.307	-0.093	0.000	0.01	0.0	0.1	OK
S2.001	S3	69	135.788	-0.143	0.000	0.01	0.0	0.2	OK
S1.001	S2	63	135.770	0.002	0.000	0.01	0.0	0.3	SURCHARGED
S3.000	S5	68	135.803	-0.147	0.000	0.00	0.0	0.1	OK
S3.001	S6	63	135.769	0.212	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	68	135.802	-0.148	0.000	0.00	0.0	0.1	OK
S3.002	S7	63	135.769	0.464	0.000	0.07	0.0	0.9	SURCHARGED
S5.000	S9	68	135.904	-0.096	0.000	0.01	0.0	0.1	OK
S5.001	S10	63	135.769	-0.044	0.000	0.01	0.0	0.1	OK
S1.002	S3	63	135.770	0.512	0.000	0.04	0.0	1.6	SURCHARGED
S1.003	S4	63	135.769	0.619	0.000	0.04	0.0	2.0	SURCHARGED
S1.004	S5	63	135.769	0.755	0.000	0.06	0.0	2.4	SURCHARGED
S1.005	S14	63	135.769	0.925	0.000	0.57	0.0	10.0	SURCHARGED

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Summary Wizard of 8640 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	70	136.303	-0.097	0.000	0.01	0.0	0.1	OK
S2.000	S2	70	136.306	-0.094	0.000	0.01	0.0	0.1	OK
S2.001	S3	71	135.787	-0.144	0.000	0.01	0.0	0.2	OK
S1.001	S2	71	135.668	-0.100	0.000	0.01	0.0	0.2	OK
S3.000	S5	71	135.802	-0.148	0.000	0.00	0.0	0.1	OK
S3.001	S6	71	135.668	0.111	0.000	0.01	0.0	0.2	SURCHARGED
S4.000	S7	71	135.801	-0.149	0.000	0.00	0.0	0.1	OK
S3.002	S7	71	135.668	0.363	0.000	0.05	0.0	0.7	SURCHARGED
S5.000	S9	70	135.903	-0.097	0.000	0.01	0.0	0.0	OK
S5.001	S10	74	135.715	-0.098	0.000	0.00	0.0	0.1	OK
S1.002	S3	71	135.668	0.410	0.000	0.03	0.0	1.2	SURCHARGED
S1.003	S4	71	135.668	0.518	0.000	0.03	0.0	1.7	SURCHARGED
S1.004	S5	71	135.668	0.654	0.000	0.06	0.0	2.4	SURCHARGED
S1.005	S14	71	135.668	0.824	0.000	0.48	0.0	8.5	SURCHARGED

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Summary Wizard of 10080 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	73	136.303	-0.097	0.000	0.01	0.0	0.1	OK
S2.000	S2	73	136.305	-0.095	0.000	0.01	0.0	0.1	OK
S2.001	S3	73	135.786	-0.145	0.000	0.01	0.0	0.1	OK
S1.001	S2	76	135.622	-0.146	0.000	0.01	0.0	0.2	OK
S3.000	S5	73	135.802	-0.148	0.000	0.00	0.0	0.1	OK
S3.001	S6	74	135.593	0.036	0.000	0.00	0.0	0.1	SURCHARGED
S4.000	S7	73	135.801	-0.149	0.000	0.00	0.0	0.0	OK
S3.002	S7	74	135.593	0.288	0.000	0.05	0.0	0.6	SURCHARGED
S5.000	S9	73	135.903	-0.097	0.000	0.01	0.0	0.0	OK
S5.001	S10	75	135.715	-0.098	0.000	0.00	0.0	0.1	OK
S1.002	S3	74	135.593	0.335	0.000	0.02	0.0	1.0	SURCHARGED
S1.003	S4	74	135.593	0.443	0.000	0.03	0.0	1.4	SURCHARGED
S1.004	S5	74	135.593	0.579	0.000	0.05	0.0	2.1	SURCHARGED
S1.005	S14	74	135.593	0.749	0.000	0.39	0.0	6.8	SURCHARGED

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Summary Wizard of 15 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	2	136.345	-0.055	0.000	0.40	0.0	3.4	OK
S2.000	S2	2	136.363	-0.037	0.000	0.70	0.0	5.4	OK
S2.001	S3	16	135.856	-0.075	0.000	0.49	0.0	8.9	OK
S1.001	S2	68	135.759	-0.009	0.000	0.34	0.0	12.3	OK
S3.000	S5	18	135.844	-0.106	0.000	0.19	0.0	4.0	OK
S3.001	S6	68	135.758	0.201	0.000	0.14	0.0	3.1	SURCHARGED
S4.000	S7	18	135.833	-0.117	0.000	0.11	0.0	2.9	OK
S3.002	S7	68	135.758	0.453	0.000	0.39	0.0	5.3	SURCHARGED
S5.000	S9	9	135.943	-0.057	0.000	0.39	0.0	2.8	OK
S5.001	S10	68	135.758	-0.055	0.000	0.28	0.0	3.5	OK
S1.002	S3	68	135.758	0.500	0.000	0.42	0.0	19.2	SURCHARGED
S1.003	S4	68	135.758	0.608	0.000	0.38	0.0	19.6	SURCHARGED
S1.004	S5	68	135.758	0.744	0.000	0.64	0.0	27.8	SURCHARGED
S1.005	S14	68	135.758	0.914	0.000	0.00	0.0	0.0	SURCHARGED

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Summary Wizard of 30 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	3	136.343	-0.057	0.000	0.39	0.0	3.3	OK
S2.000	S2	3	136.360	-0.040	0.000	0.67	0.0	5.1	OK
S2.001	S3	11	135.886	-0.045	0.000	0.46	0.0	8.3	OK
S1.001	S2	11	135.878	0.110	0.000	0.29	0.0	10.7	SURCHARGED
S3.000	S5	11	135.878	-0.072	0.000	0.18	0.0	3.9	OK
S3.001	S6	11	135.874	0.317	0.000	0.12	0.0	2.8	SURCHARGED
S4.000	S7	11	135.874	-0.076	0.000	0.10	0.0	2.7	OK
S3.002	S7	11	135.871	0.566	0.000	0.35	0.0	4.8	SURCHARGED
S5.000	S9	11	135.942	-0.058	0.000	0.37	0.0	2.7	OK
S5.001	S10	11	135.875	0.062	0.000	0.26	0.0	3.2	SURCHARGED
S1.002	S3	11	135.869	0.611	0.000	0.38	0.0	17.4	SURCHARGED
S1.003	S4	11	135.864	0.714	0.000	0.34	0.0	17.8	SURCHARGED
S1.004	S5	11	135.860	0.846	0.000	0.60	0.0	26.1	SURCHARGED
S1.005	S14	11	135.855	1.011	0.000	0.39	0.0	6.9	SURCHARGED

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Summary Wizard of 60 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	5	136.337	-0.063	0.000	0.29	0.0	2.4	OK
S2.000	S2	5	136.351	-0.049	0.000	0.50	0.0	3.8	OK
S2.001	S3	3	136.021	0.090	0.000	0.34	0.0	6.2	SURCHARGED
S1.001	S2	3	136.008	0.240	0.000	0.21	0.0	7.6	SURCHARGED
S3.000	S5	3	136.010	0.060	0.000	0.13	0.0	2.9	SURCHARGED
S3.001	S6	3	136.002	0.445	0.000	0.09	0.0	2.1	SURCHARGED
S4.000	S7	3	136.002	0.052	0.000	0.08	0.0	2.1	SURCHARGED
S3.002	S7	4	135.996	0.691	0.000	0.26	0.0	3.5	SURCHARGED
S5.000	S9	3	136.013	0.013	0.000	0.28	0.0	2.0	SURCHARGED
S5.001	S10	3	136.003	0.190	0.000	0.19	0.0	2.3	SURCHARGED
S1.002	S3	4	135.992	0.734	0.000	0.28	0.0	13.0	SURCHARGED
S1.003	S4	4	135.982	0.832	0.000	0.26	0.0	13.3	SURCHARGED
S1.004	S5	4	135.973	0.959	0.000	0.44	0.0	19.2	SURCHARGED
S1.005	S14	4	135.964	1.120	0.000	0.64	0.0	11.2	FLOOD RISK

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Summary Wizard of 120 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	10	136.330	-0.070	0.000	0.20	0.0	1.7	OK
S2.000	S2	10	136.341	-0.059	0.000	0.35	0.0	2.7	OK
S2.001	S3	2	136.041	0.110	0.000	0.22	0.0	4.0	SURCHARGED
S1.001	S2	2	136.029	0.261	0.000	0.13	0.0	4.9	SURCHARGED
S3.000	S5	2	136.031	0.081	0.000	0.09	0.0	1.9	SURCHARGED
S3.001	S6	2	136.023	0.466	0.000	0.06	0.0	1.5	SURCHARGED
S4.000	S7	2	136.022	0.072	0.000	0.05	0.0	1.3	SURCHARGED
S3.002	S7	2	136.017	0.712	0.000	0.18	0.0	2.5	SURCHARGED
S5.000	S9	2	136.033	0.033	0.000	0.18	0.0	1.3	SURCHARGED
S5.001	S10	2	136.024	0.211	0.000	0.12	0.0	1.4	SURCHARGED
S1.002	S3	2	136.013	0.755	0.000	0.18	0.0	8.3	SURCHARGED
S1.003	S4	2	136.002	0.852	0.000	0.16	0.0	8.4	SURCHARGED
S1.004	S5	2	135.993	0.979	0.000	0.29	0.0	12.5	SURCHARGED
S1.005	S14	2	135.984	1.140	0.000	0.66	0.0	11.6	FLOOD RISK

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Summary Wizard of 180 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	12	136.327	-0.073	0.000	0.16	0.0	1.4	OK
S2.000	S2	12	136.336	-0.064	0.000	0.28	0.0	2.2	OK
S2.001	S3	5	136.008	0.077	0.000	0.17	0.0	3.1	SURCHARGED
S1.001	S2	5	135.996	0.228	0.000	0.12	0.0	4.4	SURCHARGED
S3.000	S5	5	135.997	0.047	0.000	0.06	0.0	1.4	SURCHARGED
S3.001	S6	5	135.990	0.433	0.000	0.06	0.0	1.4	SURCHARGED
S4.000	S7	5	135.990	0.040	0.000	0.04	0.0	1.0	SURCHARGED
S3.002	S7	5	135.984	0.679	0.000	0.17	0.0	2.3	SURCHARGED
S5.000	S9	5	135.999	-0.001	0.000	0.14	0.0	1.1	OK
S5.001	S10	5	135.991	0.178	0.000	0.09	0.0	1.1	SURCHARGED
S1.002	S3	5	135.981	0.723	0.000	0.16	0.0	7.6	SURCHARGED
S1.003	S4	5	135.971	0.821	0.000	0.15	0.0	7.8	SURCHARGED
S1.004	S5	5	135.964	0.950	0.000	0.25	0.0	10.9	SURCHARGED
S1.005	S14	5	135.956	1.112	0.000	0.63	0.0	10.9	FLOOD RISK

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Summary Wizard of 240 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	15	136.324	-0.076	0.000	0.13	0.0	1.1	OK
S2.000	S2	15	136.333	-0.067	0.000	0.23	0.0	1.8	OK
S2.001	S3	7	135.972	0.041	0.000	0.15	0.0	2.7	SURCHARGED
S1.001	S2	7	135.961	0.193	0.000	0.11	0.0	3.8	SURCHARGED
S3.000	S5	7	135.962	0.012	0.000	0.06	0.0	1.2	SURCHARGED
S3.001	S6	7	135.955	0.398	0.000	0.05	0.0	1.2	SURCHARGED
S4.000	S7	7	135.955	0.005	0.000	0.03	0.0	0.9	SURCHARGED
S3.002	S7	7	135.951	0.646	0.000	0.16	0.0	2.1	SURCHARGED
S5.000	S9	7	135.964	-0.036	0.000	0.12	0.0	0.9	OK
S5.001	S10	7	135.956	0.143	0.000	0.08	0.0	1.0	SURCHARGED
S1.002	S3	7	135.948	0.690	0.000	0.15	0.0	6.9	SURCHARGED
S1.003	S4	7	135.939	0.789	0.000	0.14	0.0	7.1	SURCHARGED
S1.004	S5	7	135.933	0.919	0.000	0.23	0.0	9.9	SURCHARGED
S1.005	S14	7	135.925	1.081	0.000	0.56	0.0	9.9	SURCHARGED

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Summary Wizard of 360 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	19	136.321	-0.079	0.000	0.10	0.0	0.9	OK
S2.000	S2	19	136.328	-0.072	0.000	0.18	0.0	1.3	OK
S2.001	S3	9	135.904	-0.027	0.000	0.12	0.0	2.1	OK
S1.001	S2	9	135.896	0.128	0.000	0.08	0.0	3.0	SURCHARGED
S3.000	S5	9	135.897	-0.053	0.000	0.05	0.0	1.0	OK
S3.001	S6	9	135.892	0.335	0.000	0.04	0.0	1.0	SURCHARGED
S4.000	S7	9	135.892	-0.058	0.000	0.03	0.0	0.7	OK
S3.002	S7	9	135.888	0.583	0.000	0.12	0.0	1.7	SURCHARGED
S5.000	S9	19	135.921	-0.079	0.000	0.10	0.0	0.7	OK
S5.001	S10	9	135.893	0.080	0.000	0.07	0.0	0.8	SURCHARGED
S1.002	S3	9	135.885	0.627	0.000	0.12	0.0	5.6	SURCHARGED
S1.003	S4	9	135.879	0.729	0.000	0.11	0.0	5.7	SURCHARGED
S1.004	S5	9	135.873	0.859	0.000	0.18	0.0	8.0	SURCHARGED
S1.005	S14	9	135.867	1.023	0.000	0.46	0.0	8.0	SURCHARGED

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Summary Wizard of 480 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	23	136.319	-0.081	0.000	0.08	0.0	0.7	OK
S2.000	S2	23	136.325	-0.075	0.000	0.14	0.0	1.1	OK
S2.001	S3	12	135.879	-0.052	0.000	0.10	0.0	1.7	OK
S1.001	S2	12	135.872	0.104	0.000	0.07	0.0	2.5	SURCHARGED
S3.000	S5	12	135.873	-0.077	0.000	0.04	0.0	0.8	OK
S3.001	S6	12	135.869	0.312	0.000	0.04	0.0	0.8	SURCHARGED
S4.000	S7	12	135.869	-0.081	0.000	0.02	0.0	0.6	OK
S3.002	S7	12	135.866	0.561	0.000	0.10	0.0	1.4	SURCHARGED
S5.000	S9	23	135.918	-0.082	0.000	0.08	0.0	0.6	OK
S5.001	S10	12	135.870	0.057	0.000	0.06	0.0	0.7	SURCHARGED
S1.002	S3	12	135.864	0.606	0.000	0.10	0.0	4.6	SURCHARGED
S1.003	S4	12	135.858	0.708	0.000	0.09	0.0	4.7	SURCHARGED
S1.004	S5	12	135.854	0.840	0.000	0.15	0.0	6.6	SURCHARGED
S1.005	S14	12	135.849	1.005	0.000	0.38	0.0	6.6	SURCHARGED

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Summary Wizard of 600 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	26	136.317	-0.083	0.000	0.07	0.0	0.6	OK
S2.000	S2	26	136.323	-0.077	0.000	0.12	0.0	0.9	OK
S2.001	S3	14	135.861	-0.070	0.000	0.08	0.0	1.5	OK
S1.001	S2	14	135.855	0.087	0.000	0.06	0.0	2.1	SURCHARGED
S3.000	S5	14	135.856	-0.094	0.000	0.03	0.0	0.7	OK
S3.001	S6	14	135.852	0.295	0.000	0.03	0.0	0.7	SURCHARGED
S4.000	S7	14	135.852	-0.098	0.000	0.02	0.0	0.5	OK
S3.002	S7	14	135.850	0.545	0.000	0.09	0.0	1.2	SURCHARGED
S5.000	S9	26	135.917	-0.083	0.000	0.07	0.0	0.5	OK
S5.001	S10	14	135.853	0.040	0.000	0.05	0.0	0.6	SURCHARGED
S1.002	S3	14	135.848	0.590	0.000	0.08	0.0	3.9	SURCHARGED
S1.003	S4	14	135.843	0.693	0.000	0.08	0.0	4.0	SURCHARGED
S1.004	S5	14	135.839	0.825	0.000	0.13	0.0	5.6	SURCHARGED
S1.005	S14	14	135.835	0.991	0.000	0.32	0.0	5.5	SURCHARGED

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Summary Wizard of 720 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	28	136.316	-0.084	0.000	0.06	0.0	0.5	OK
S2.000	S2	28	136.322	-0.078	0.000	0.11	0.0	0.8	OK
S2.001	S3	17	135.851	-0.080	0.000	0.07	0.0	1.3	OK
S1.001	S2	15	135.846	0.078	0.000	0.05	0.0	1.9	SURCHARGED
S3.000	S5	15	135.846	-0.104	0.000	0.03	0.0	0.6	OK
S3.001	S6	15	135.843	0.286	0.000	0.03	0.0	0.6	SURCHARGED
S4.000	S7	15	135.843	-0.107	0.000	0.02	0.0	0.4	OK
S3.002	S7	16	135.841	0.536	0.000	0.08	0.0	1.0	SURCHARGED
S5.000	S9	28	135.916	-0.084	0.000	0.06	0.0	0.4	OK
S5.001	S10	16	135.844	0.031	0.000	0.04	0.0	0.5	SURCHARGED
S1.002	S3	16	135.839	0.581	0.000	0.07	0.0	3.4	SURCHARGED
S1.003	S4	16	135.835	0.685	0.000	0.07	0.0	3.5	SURCHARGED
S1.004	S5	16	135.832	0.818	0.000	0.11	0.0	4.9	SURCHARGED
S1.005	S14	16	135.828	0.984	0.000	0.28	0.0	4.9	SURCHARGED

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Summary Wizard of 960 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	33	136.314	-0.086	0.000	0.05	0.0	0.4	OK
S2.000	S2	33	136.320	-0.080	0.000	0.09	0.0	0.7	OK
S2.001	S3	20	135.834	-0.097	0.000	0.06	0.0	1.1	OK
S1.001	S2	18	135.830	0.062	0.000	0.04	0.0	1.5	SURCHARGED
S3.000	S5	23	135.831	-0.119	0.000	0.02	0.0	0.5	OK
S3.001	S6	18	135.828	0.271	0.000	0.02	0.0	0.5	SURCHARGED
S4.000	S7	20	135.828	-0.122	0.000	0.01	0.0	0.4	OK
S3.002	S7	18	135.826	0.521	0.000	0.06	0.0	0.9	SURCHARGED
S5.000	S9	33	135.914	-0.086	0.000	0.05	0.0	0.3	OK
S5.001	S10	18	135.828	0.015	0.000	0.03	0.0	0.4	SURCHARGED
S1.002	S3	18	135.825	0.567	0.000	0.06	0.0	2.8	SURCHARGED
S1.003	S4	18	135.822	0.672	0.000	0.06	0.0	2.9	SURCHARGED
S1.004	S5	18	135.819	0.805	0.000	0.09	0.0	4.1	SURCHARGED
S1.005	S14	18	135.816	0.972	0.000	0.23	0.0	4.0	SURCHARGED

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Summary Wizard of 1440 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	38	136.312	-0.088	0.000	0.04	0.0	0.3	OK
S2.000	S2	38	136.317	-0.083	0.000	0.07	0.0	0.5	OK
S2.001	S3	32	135.817	-0.114	0.000	0.04	0.0	0.8	OK
S1.001	S2	23	135.814	0.046	0.000	0.03	0.0	1.1	SURCHARGED
S3.000	S5	34	135.819	-0.131	0.000	0.02	0.0	0.4	OK
S3.001	S6	23	135.813	0.256	0.000	0.02	0.0	0.4	SURCHARGED
S4.000	S7	33	135.816	-0.134	0.000	0.01	0.0	0.3	OK
S3.002	S7	25	135.811	0.506	0.000	0.05	0.0	0.6	SURCHARGED
S5.000	S9	38	135.912	-0.088	0.000	0.04	0.0	0.3	OK
S5.001	S10	24	135.813	0.000	0.000	0.03	0.0	0.3	SURCHARGED
S1.002	S3	25	135.810	0.552	0.000	0.05	0.0	2.1	SURCHARGED
S1.003	S4	25	135.808	0.658	0.000	0.04	0.0	2.1	SURCHARGED
S1.004	S5	25	135.806	0.792	0.000	0.07	0.0	3.0	SURCHARGED
S1.005	S14	25	135.803	0.959	0.000	0.17	0.0	3.0	SURCHARGED

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Summary Wizard of 2160 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	44	136.311	-0.089	0.000	0.03	0.0	0.2	OK
S2.000	S2	44	136.314	-0.086	0.000	0.05	0.0	0.4	OK
S2.001	S3	44	135.809	-0.122	0.000	0.03	0.0	0.6	OK
S1.001	S2	35	135.803	0.035	0.000	0.02	0.0	0.9	SURCHARGED
S3.000	S5	44	135.815	-0.135	0.000	0.01	0.0	0.3	OK
S3.001	S6	35	135.802	0.245	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	44	135.810	-0.140	0.000	0.01	0.0	0.2	OK
S3.002	S7	35	135.801	0.496	0.000	0.06	0.0	0.9	SURCHARGED
S5.000	S9	44	135.911	-0.089	0.000	0.03	0.0	0.2	OK
S5.001	S10	35	135.802	-0.011	0.000	0.02	0.0	0.2	OK
S1.002	S3	35	135.800	0.542	0.000	0.03	0.0	1.6	SURCHARGED
S1.003	S4	35	135.798	0.648	0.000	0.03	0.0	1.8	SURCHARGED
S1.004	S5	35	135.797	0.783	0.000	0.06	0.0	2.4	SURCHARGED
S1.005	S14	35	135.795	0.951	0.000	0.59	0.0	10.3	SURCHARGED

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Summary Wizard of 2880 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	47	136.310	-0.090	0.000	0.02	0.0	0.2	OK
S2.000	S2	47	136.313	-0.087	0.000	0.04	0.0	0.3	OK
S2.001	S3	47	135.804	-0.127	0.000	0.03	0.0	0.5	OK
S1.001	S2	39	135.796	0.028	0.000	0.02	0.0	0.7	SURCHARGED
S3.000	S5	47	135.811	-0.139	0.000	0.01	0.0	0.2	OK
S3.001	S6	39	135.795	0.238	0.000	0.01	0.0	0.2	SURCHARGED
S4.000	S7	48	135.806	-0.144	0.000	0.01	0.0	0.2	OK
S3.002	S7	39	135.794	0.489	0.000	0.06	0.0	0.8	SURCHARGED
S5.000	S9	47	135.910	-0.090	0.000	0.02	0.0	0.2	OK
S5.001	S10	39	135.796	-0.017	0.000	0.02	0.0	0.2	OK
S1.002	S3	39	135.794	0.536	0.000	0.03	0.0	1.4	SURCHARGED
S1.003	S4	39	135.792	0.642	0.000	0.04	0.0	1.9	SURCHARGED
S1.004	S5	39	135.791	0.777	0.000	0.06	0.0	2.7	SURCHARGED
S1.005	S14	39	135.790	0.946	0.000	0.60	0.0	10.5	SURCHARGED

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Summary Wizard of 4320 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	52	136.308	-0.092	0.000	0.02	0.0	0.1	OK
S2.000	S2	52	136.311	-0.089	0.000	0.03	0.0	0.2	OK
S2.001	S3	52	135.799	-0.132	0.000	0.02	0.0	0.4	OK
S1.001	S2	44	135.788	0.020	0.000	0.01	0.0	0.5	SURCHARGED
S3.000	S5	52	135.807	-0.143	0.000	0.01	0.0	0.2	OK
S3.001	S6	44	135.788	0.231	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	54	135.804	-0.146	0.000	0.00	0.0	0.1	OK
S3.002	S7	44	135.787	0.482	0.000	0.07	0.0	1.0	SURCHARGED
S5.000	S9	52	135.908	-0.092	0.000	0.02	0.0	0.1	OK
S5.001	S10	44	135.788	-0.025	0.000	0.01	0.0	0.1	OK
S1.002	S3	44	135.786	0.528	0.000	0.04	0.0	1.7	SURCHARGED
S1.003	S4	44	135.785	0.635	0.000	0.04	0.0	2.0	SURCHARGED
S1.004	S5	44	135.784	0.770	0.000	0.06	0.0	2.5	SURCHARGED
S1.005	S14	44	135.784	0.940	0.000	0.58	0.0	10.1	SURCHARGED

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Summary Wizard of 5760 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	56	136.307	-0.093	0.000	0.01	0.0	0.1	OK
S2.000	S2	56	136.311	-0.089	0.000	0.02	0.0	0.2	OK
S2.001	S3	56	135.797	-0.134	0.000	0.02	0.0	0.3	OK
S1.001	S2	49	135.784	0.016	0.000	0.02	0.0	0.6	SURCHARGED
S3.000	S5	56	135.806	-0.144	0.000	0.01	0.0	0.1	OK
S3.001	S6	49	135.784	0.227	0.000	0.02	0.0	0.4	SURCHARGED
S4.000	S7	56	135.803	-0.147	0.000	0.00	0.0	0.1	OK
S3.002	S7	49	135.783	0.478	0.000	0.08	0.0	1.1	SURCHARGED
S5.000	S9	56	135.906	-0.094	0.000	0.01	0.0	0.1	OK
S5.001	S10	49	135.784	-0.029	0.000	0.01	0.0	0.1	OK
S1.002	S3	49	135.783	0.525	0.000	0.05	0.0	2.1	SURCHARGED
S1.003	S4	49	135.782	0.632	0.000	0.05	0.0	2.5	SURCHARGED
S1.004	S5	49	135.781	0.767	0.000	0.08	0.0	3.5	SURCHARGED
S1.005	S14	49	135.780	0.936	0.000	0.63	0.0	11.0	SURCHARGED

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Summary Wizard of 7200 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	59	136.306	-0.094	0.000	0.01	0.0	0.1	OK
S2.000	S2	59	136.310	-0.090	0.000	0.02	0.0	0.2	OK
S2.001	S3	63	135.791	-0.140	0.000	0.01	0.0	0.3	OK
S1.001	S2	60	135.772	0.004	0.000	0.01	0.0	0.4	SURCHARGED
S3.000	S5	61	135.804	-0.146	0.000	0.01	0.0	0.1	OK
S3.001	S6	60	135.771	0.214	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	61	135.802	-0.148	0.000	0.00	0.0	0.1	OK
S3.002	S7	60	135.771	0.466	0.000	0.07	0.0	1.0	SURCHARGED
S5.000	S9	59	135.905	-0.095	0.000	0.01	0.0	0.1	OK
S5.001	S10	60	135.771	-0.042	0.000	0.01	0.0	0.1	OK
S1.002	S3	60	135.771	0.513	0.000	0.04	0.0	1.7	SURCHARGED
S1.003	S4	60	135.772	0.622	0.000	0.04	0.0	2.1	SURCHARGED
S1.004	S5	60	135.771	0.757	0.000	0.06	0.0	2.6	SURCHARGED
S1.005	S14	60	135.771	0.927	0.000	0.58	0.0	10.2	SURCHARGED

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Summary Wizard of 8640 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	62	136.305	-0.095	0.000	0.01	0.0	0.1	OK
S2.000	S2	62	136.309	-0.091	0.000	0.02	0.0	0.1	OK
S2.001	S3	65	135.790	-0.141	0.000	0.01	0.0	0.2	OK
S1.001	S2	65	135.768	0.000	0.000	0.01	0.0	0.3	SURCHARGED
S3.000	S5	63	135.803	-0.147	0.000	0.00	0.0	0.1	OK
S3.001	S6	64	135.769	0.212	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	63	135.802	-0.148	0.000	0.00	0.0	0.1	OK
S3.002	S7	65	135.768	0.463	0.000	0.07	0.0	0.9	SURCHARGED
S5.000	S9	62	135.905	-0.095	0.000	0.01	0.0	0.1	OK
S5.001	S10	65	135.768	-0.045	0.000	0.01	0.0	0.1	OK
S1.002	S3	65	135.768	0.510	0.000	0.03	0.0	1.6	SURCHARGED
S1.003	S4	65	135.768	0.618	0.000	0.04	0.0	1.9	SURCHARGED
S1.004	S5	65	135.768	0.754	0.000	0.05	0.0	2.3	SURCHARGED
S1.005	S14	65	135.768	0.924	0.000	0.57	0.0	9.9	SURCHARGED

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Summary Wizard of 10080 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	64	136.305	-0.095	0.000	0.01	0.0	0.1	OK
S2.000	S2	64	136.308	-0.092	0.000	0.02	0.0	0.1	OK
S2.001	S3	67	135.789	-0.142	0.000	0.01	0.0	0.2	OK
S1.001	S2	67	135.762	-0.006	0.000	0.01	0.0	0.3	OK
S3.000	S5	65	135.803	-0.147	0.000	0.00	0.0	0.1	OK
S3.001	S6	67	135.762	0.205	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	65	135.802	-0.148	0.000	0.00	0.0	0.1	OK
S3.002	S7	67	135.762	0.457	0.000	0.06	0.0	0.8	SURCHARGED
S5.000	S9	64	135.904	-0.096	0.000	0.01	0.0	0.1	OK
S5.001	S10	67	135.762	-0.051	0.000	0.01	0.0	0.1	OK
S1.002	S3	67	135.762	0.504	0.000	0.03	0.0	1.4	SURCHARGED
S1.003	S4	67	135.762	0.612	0.000	0.04	0.0	1.9	SURCHARGED
S1.004	S5	67	135.762	0.748	0.000	0.06	0.0	2.8	SURCHARGED
S1.005	S14	67	135.762	0.918	0.000	0.60	0.0	10.4	SURCHARGED

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Summary Wizard of 15 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	7	136.332	-0.068	0.000	0.22	0.0	1.9	OK
S2.000	S2	7	136.344	-0.056	0.000	0.39	0.0	3.0	OK
S2.001	S3	21	135.832	-0.099	0.000	0.25	0.0	4.5	OK
S1.001	S2	72	135.661	-0.107	0.000	0.18	0.0	6.6	OK
S3.000	S5	20	135.832	-0.118	0.000	0.10	0.0	2.2	OK
S3.001	S6	75	135.567	0.010	0.000	0.09	0.0	2.2	SURCHARGED
S4.000	S7	21	135.824	-0.126	0.000	0.06	0.0	1.6	OK
S3.002	S7	75	135.567	0.262	0.000	0.21	0.0	2.9	SURCHARGED
S5.000	S9	12	135.931	-0.069	0.000	0.21	0.0	1.6	OK
S5.001	S10	69	135.739	-0.074	0.000	0.15	0.0	1.8	OK
S1.002	S3	75	135.567	0.309	0.000	0.22	0.0	10.3	SURCHARGED
S1.003	S4	75	135.567	0.417	0.000	0.20	0.0	10.6	SURCHARGED
S1.004	S5	75	135.567	0.553	0.000	0.33	0.0	14.3	SURCHARGED
S1.005	S14	75	135.567	0.723	0.000	0.00	0.0	0.0	SURCHARGED

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Summary Wizard of 30 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	11	136.329	-0.071	0.000	0.18	0.0	1.6	OK
S2.000	S2	11	136.339	-0.061	0.000	0.32	0.0	2.4	OK
S2.001	S3	25	135.827	-0.104	0.000	0.21	0.0	3.8	OK
S1.001	S2	70	135.668	-0.100	0.000	0.15	0.0	5.5	OK
S3.000	S5	24	135.829	-0.121	0.000	0.08	0.0	1.8	OK
S3.001	S6	70	135.668	0.111	0.000	0.07	0.0	1.6	SURCHARGED
S4.000	S7	25	135.821	-0.129	0.000	0.05	0.0	1.3	OK
S3.002	S7	70	135.668	0.363	0.000	0.17	0.0	2.3	SURCHARGED
S5.000	S9	15	135.928	-0.072	0.000	0.17	0.0	1.3	OK
S5.001	S10	72	135.736	-0.077	0.000	0.12	0.0	1.5	OK
S1.002	S3	70	135.668	0.410	0.000	0.19	0.0	8.9	SURCHARGED
S1.003	S4	70	135.668	0.518	0.000	0.18	0.0	9.1	SURCHARGED
S1.004	S5	70	135.668	0.654	0.000	0.29	0.0	12.7	SURCHARGED
S1.005	S14	70	135.668	0.824	0.000	0.00	0.0	0.0	SURCHARGED

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Summary Wizard of 60 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	16	136.324	-0.076	0.000	0.13	0.0	1.1	OK
S2.000	S2	16	136.332	-0.068	0.000	0.22	0.0	1.7	OK
S2.001	S3	29	135.819	-0.112	0.000	0.15	0.0	2.7	OK
S1.001	S2	55	135.779	0.011	0.000	0.11	0.0	3.8	SURCHARGED
S3.000	S5	27	135.823	-0.127	0.000	0.06	0.0	1.3	OK
S3.001	S6	55	135.778	0.221	0.000	0.04	0.0	1.0	SURCHARGED
S4.000	S7	29	135.818	-0.132	0.000	0.03	0.0	0.9	OK
S3.002	S7	55	135.778	0.473	0.000	0.11	0.0	1.5	SURCHARGED
S5.000	S9	17	135.923	-0.077	0.000	0.12	0.0	0.9	OK
S5.001	S10	55	135.779	-0.034	0.000	0.09	0.0	1.1	OK
S1.002	S3	55	135.778	0.520	0.000	0.13	0.0	6.1	SURCHARGED
S1.003	S4	55	135.777	0.627	0.000	0.12	0.0	6.2	SURCHARGED
S1.004	S5	55	135.777	0.763	0.000	0.20	0.0	8.9	SURCHARGED
S1.005	S14	55	135.776	0.932	0.000	0.04	0.0	0.8	SURCHARGED

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Summary Wizard of 120 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	22	136.319	-0.081	0.000	0.08	0.0	0.7	OK
S2.000	S2	22	136.325	-0.075	0.000	0.15	0.0	1.1	OK
S2.001	S3	39	135.813	-0.118	0.000	0.10	0.0	1.8	OK
S1.001	S2	31	135.808	0.040	0.000	0.07	0.0	2.5	SURCHARGED
S3.000	S5	36	135.819	-0.131	0.000	0.04	0.0	0.8	OK
S3.001	S6	31	135.806	0.249	0.000	0.02	0.0	0.6	SURCHARGED
S4.000	S7	37	135.815	-0.135	0.000	0.02	0.0	0.6	OK
S3.002	S7	31	135.805	0.500	0.000	0.07	0.0	1.0	SURCHARGED
S5.000	S9	22	135.919	-0.081	0.000	0.08	0.0	0.6	OK
S5.001	S10	31	135.807	-0.006	0.000	0.06	0.0	0.7	OK
S1.002	S3	31	135.804	0.546	0.000	0.09	0.0	4.1	SURCHARGED
S1.003	S4	31	135.802	0.652	0.000	0.08	0.0	4.1	SURCHARGED
S1.004	S5	31	135.800	0.786	0.000	0.14	0.0	5.9	SURCHARGED
S1.005	S14	31	135.798	0.954	0.000	0.15	0.0	2.6	SURCHARGED

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Summary Wizard of 180 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	27	136.317	-0.083	0.000	0.07	0.0	0.6	OK
S2.000	S2	27	136.322	-0.078	0.000	0.11	0.0	0.9	OK
S2.001	S3	28	135.823	-0.108	0.000	0.08	0.0	1.4	OK
S1.001	S2	21	135.819	0.051	0.000	0.05	0.0	1.9	SURCHARGED
S3.000	S5	29	135.822	-0.128	0.000	0.03	0.0	0.7	OK
S3.001	S6	21	135.818	0.261	0.000	0.02	0.0	0.4	SURCHARGED
S4.000	S7	28	135.819	-0.131	0.000	0.02	0.0	0.5	OK
S3.002	S7	21	135.816	0.511	0.000	0.06	0.0	0.8	SURCHARGED
S5.000	S9	27	135.916	-0.084	0.000	0.06	0.0	0.5	OK
S5.001	S10	21	135.818	0.005	0.000	0.05	0.0	0.6	SURCHARGED
S1.002	S3	21	135.815	0.557	0.000	0.07	0.0	3.1	SURCHARGED
S1.003	S4	21	135.812	0.662	0.000	0.06	0.0	3.2	SURCHARGED
S1.004	S5	21	135.810	0.796	0.000	0.10	0.0	4.6	SURCHARGED
S1.005	S14	21	135.808	0.964	0.000	0.19	0.0	3.3	SURCHARGED

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Summary Wizard of 240 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	31	136.315	-0.085	0.000	0.05	0.0	0.5	OK
S2.000	S2	31	136.321	-0.079	0.000	0.10	0.0	0.7	OK
S2.001	S3	26	135.824	-0.107	0.000	0.06	0.0	1.2	OK
S1.001	S2	20	135.821	0.053	0.000	0.04	0.0	1.5	SURCHARGED
S3.000	S5	28	135.823	-0.127	0.000	0.03	0.0	0.5	OK
S3.001	S6	20	135.819	0.262	0.000	0.02	0.0	0.4	SURCHARGED
S4.000	S7	26	135.820	-0.130	0.000	0.01	0.0	0.4	OK
S3.002	S7	20	135.817	0.512	0.000	0.05	0.0	0.7	SURCHARGED
S5.000	S9	31	135.915	-0.085	0.000	0.05	0.0	0.4	OK
S5.001	S10	20	135.819	0.006	0.000	0.04	0.0	0.5	SURCHARGED
S1.002	S3	20	135.816	0.558	0.000	0.06	0.0	2.6	SURCHARGED
S1.003	S4	20	135.814	0.664	0.000	0.05	0.0	2.6	SURCHARGED
S1.004	S5	20	135.811	0.797	0.000	0.09	0.0	3.8	SURCHARGED
S1.005	S14	20	135.809	0.965	0.000	0.19	0.0	3.4	SURCHARGED

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Summary Wizard of 360 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	36	136.313	-0.087	0.000	0.04	0.0	0.4	OK
S2.000	S2	36	136.318	-0.082	0.000	0.07	0.0	0.6	OK
S2.001	S3	31	135.818	-0.113	0.000	0.05	0.0	0.9	OK
S1.001	S2	24	135.814	0.046	0.000	0.03	0.0	1.2	SURCHARGED
S3.000	S5	33	135.819	-0.131	0.000	0.02	0.0	0.4	OK
S3.001	S6	24	135.813	0.256	0.000	0.02	0.0	0.4	SURCHARGED
S4.000	S7	32	135.816	-0.134	0.000	0.01	0.0	0.3	OK
S3.002	S7	23	135.811	0.506	0.000	0.05	0.0	0.6	SURCHARGED
S5.000	S9	36	135.913	-0.087	0.000	0.04	0.0	0.3	OK
S5.001	S10	23	135.813	0.000	0.000	0.03	0.0	0.3	SURCHARGED
S1.002	S3	23	135.810	0.552	0.000	0.05	0.0	2.1	SURCHARGED
S1.003	S4	23	135.808	0.658	0.000	0.04	0.0	2.2	SURCHARGED
S1.004	S5	23	135.806	0.792	0.000	0.07	0.0	3.0	SURCHARGED
S1.005	S14	23	135.804	0.960	0.000	0.17	0.0	3.0	SURCHARGED

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Summary Wizard of 480 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	41	136.312	-0.088	0.000	0.03	0.0	0.3	OK
S2.000	S2	41	136.316	-0.084	0.000	0.06	0.0	0.5	OK
S2.001	S3	41	135.813	-0.118	0.000	0.04	0.0	0.7	OK
S1.001	S2	30	135.808	0.040	0.000	0.03	0.0	1.0	SURCHARGED
S3.000	S5	41	135.817	-0.133	0.000	0.02	0.0	0.3	OK
S3.001	S6	30	135.807	0.250	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	41	135.813	-0.137	0.000	0.01	0.0	0.2	OK
S3.002	S7	30	135.806	0.501	0.000	0.04	0.0	0.6	SURCHARGED
S5.000	S9	41	135.912	-0.088	0.000	0.03	0.0	0.2	OK
S5.001	S10	30	135.807	-0.006	0.000	0.02	0.0	0.3	OK
S1.002	S3	30	135.805	0.547	0.000	0.04	0.0	1.9	SURCHARGED
S1.003	S4	30	135.803	0.653	0.000	0.04	0.0	1.9	SURCHARGED
S1.004	S5	30	135.801	0.787	0.000	0.06	0.0	2.7	SURCHARGED
S1.005	S14	30	135.799	0.955	0.000	0.15	0.0	2.6	SURCHARGED

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Summary Wizard of 600 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	42	136.311	-0.089	0.000	0.03	0.0	0.3	OK
S2.000	S2	42	136.315	-0.085	0.000	0.05	0.0	0.4	OK
S2.001	S3	42	135.809	-0.122	0.000	0.04	0.0	0.6	OK
S1.001	S2	34	135.804	0.036	0.000	0.02	0.0	0.9	SURCHARGED
S3.000	S5	42	135.815	-0.135	0.000	0.01	0.0	0.3	OK
S3.001	S6	34	135.803	0.246	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	42	135.811	-0.139	0.000	0.01	0.0	0.2	OK
S3.002	S7	34	135.802	0.497	0.000	0.04	0.0	0.5	SURCHARGED
S5.000	S9	42	135.911	-0.089	0.000	0.03	0.0	0.2	OK
S5.001	S10	34	135.803	-0.010	0.000	0.02	0.0	0.2	OK
S1.002	S3	34	135.801	0.543	0.000	0.04	0.0	1.6	SURCHARGED
S1.003	S4	34	135.799	0.649	0.000	0.03	0.0	1.7	SURCHARGED
S1.004	S5	33	135.797	0.783	0.000	0.05	0.0	2.4	SURCHARGED
S1.005	S14	33	135.795	0.951	0.000	0.13	0.0	2.4	SURCHARGED

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Summary Wizard of 720 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	46	136.311	-0.089	0.000	0.03	0.0	0.2	OK
S2.000	S2	46	136.314	-0.086	0.000	0.05	0.0	0.4	OK
S2.001	S3	46	135.806	-0.125	0.000	0.03	0.0	0.6	OK
S1.001	S2	38	135.800	0.032	0.000	0.02	0.0	0.8	SURCHARGED
S3.000	S5	46	135.813	-0.137	0.000	0.01	0.0	0.3	OK
S3.001	S6	38	135.799	0.242	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	46	135.809	-0.141	0.000	0.01	0.0	0.2	OK
S3.002	S7	38	135.798	0.493	0.000	0.03	0.0	0.5	SURCHARGED
S5.000	S9	46	135.911	-0.089	0.000	0.03	0.0	0.2	OK
S5.001	S10	38	135.799	-0.014	0.000	0.02	0.0	0.2	OK
S1.002	S3	38	135.797	0.539	0.000	0.03	0.0	1.5	SURCHARGED
S1.003	S4	38	135.796	0.646	0.000	0.03	0.0	1.5	SURCHARGED
S1.004	S5	38	135.794	0.780	0.000	0.05	0.0	2.1	SURCHARGED
S1.005	S14	38	135.793	0.949	0.000	0.12	0.0	2.1	SURCHARGED

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Summary Wizard of 960 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	49	136.310	-0.090	0.000	0.02	0.0	0.2	OK
S2.000	S2	49	136.313	-0.087	0.000	0.04	0.0	0.3	OK
S2.001	S3	49	135.802	-0.129	0.000	0.03	0.0	0.5	OK
S1.001	S2	41	135.794	0.026	0.000	0.02	0.0	0.7	SURCHARGED
S3.000	S5	49	135.810	-0.140	0.000	0.01	0.0	0.2	OK
S3.001	S6	41	135.793	0.236	0.000	0.01	0.0	0.2	SURCHARGED
S4.000	S7	49	135.806	-0.144	0.000	0.01	0.0	0.2	OK
S3.002	S7	41	135.793	0.488	0.000	0.03	0.0	0.4	SURCHARGED
S5.000	S9	49	135.910	-0.090	0.000	0.02	0.0	0.2	OK
S5.001	S10	41	135.794	-0.019	0.000	0.02	0.0	0.2	OK
S1.002	S3	41	135.792	0.534	0.000	0.03	0.0	1.2	SURCHARGED
S1.003	S4	41	135.791	0.641	0.000	0.02	0.0	1.3	SURCHARGED
S1.004	S5	41	135.789	0.775	0.000	0.04	0.0	1.8	SURCHARGED
S1.005	S14	41	135.788	0.944	0.000	0.10	0.0	1.8	SURCHARGED

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Summary Wizard of 1440 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	54	136.308	-0.092	0.000	0.02	0.0	0.1	OK
S2.000	S2	54	136.311	-0.089	0.000	0.03	0.0	0.2	OK
S2.001	S3	54	135.798	-0.133	0.000	0.02	0.0	0.4	OK
S1.001	S2	46	135.788	0.020	0.000	0.01	0.0	0.5	SURCHARGED
S3.000	S5	54	135.807	-0.143	0.000	0.01	0.0	0.2	OK
S3.001	S6	46	135.787	0.230	0.000	0.01	0.0	0.2	SURCHARGED
S4.000	S7	52	135.804	-0.146	0.000	0.00	0.0	0.1	OK
S3.002	S7	46	135.786	0.481	0.000	0.02	0.0	0.3	SURCHARGED
S5.000	S9	54	135.908	-0.092	0.000	0.02	0.0	0.1	OK
S5.001	S10	46	135.787	-0.026	0.000	0.01	0.0	0.1	OK
S1.002	S3	46	135.786	0.528	0.000	0.02	0.0	0.9	SURCHARGED
S1.003	S4	46	135.785	0.635	0.000	0.02	0.0	1.0	SURCHARGED
S1.004	S5	46	135.784	0.770	0.000	0.03	0.0	1.3	SURCHARGED
S1.005	S14	46	135.783	0.939	0.000	0.08	0.0	1.3	SURCHARGED

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Summary Wizard of 2160 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	57	136.306	-0.094	0.000	0.01	0.0	0.1	OK
S2.000	S2	57	136.310	-0.090	0.000	0.02	0.0	0.2	OK
S2.001	S3	57	135.796	-0.135	0.000	0.02	0.0	0.3	OK
S1.001	S2	50	135.783	0.015	0.000	0.01	0.0	0.4	SURCHARGED
S3.000	S5	57	135.805	-0.145	0.000	0.01	0.0	0.1	OK
S3.001	S6	50	135.782	0.225	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	57	135.803	-0.147	0.000	0.00	0.0	0.1	OK
S3.002	S7	50	135.782	0.477	0.000	0.07	0.0	0.9	SURCHARGED
S5.000	S9	57	135.906	-0.094	0.000	0.01	0.0	0.1	OK
S5.001	S10	50	135.782	-0.031	0.000	0.01	0.0	0.1	OK
S1.002	S3	50	135.781	0.523	0.000	0.03	0.0	1.5	SURCHARGED
S1.003	S4	50	135.780	0.630	0.000	0.03	0.0	1.8	SURCHARGED
S1.004	S5	50	135.780	0.766	0.000	0.05	0.0	2.2	SURCHARGED
S1.005	S14	50	135.779	0.935	0.000	0.56	0.0	9.7	SURCHARGED

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Summary Wizard of 2880 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	61	136.305	-0.095	0.000	0.01	0.0	0.1	OK
S2.000	S2	61	136.309	-0.091	0.000	0.02	0.0	0.1	OK
S2.001	S3	60	135.794	-0.137	0.000	0.01	0.0	0.2	OK
S1.001	S2	53	135.780	0.012	0.000	0.01	0.0	0.3	SURCHARGED
S3.000	S5	60	135.804	-0.146	0.000	0.00	0.0	0.1	OK
S3.001	S6	53	135.779	0.222	0.000	0.01	0.0	0.2	SURCHARGED
S4.000	S7	60	135.802	-0.148	0.000	0.00	0.0	0.1	OK
S3.002	S7	53	135.779	0.474	0.000	0.06	0.0	0.8	SURCHARGED
S5.000	S9	61	135.905	-0.095	0.000	0.01	0.0	0.1	OK
S5.001	S10	53	135.779	-0.034	0.000	0.01	0.0	0.1	OK
S1.002	S3	53	135.779	0.521	0.000	0.03	0.0	1.3	SURCHARGED
S1.003	S4	53	135.778	0.628	0.000	0.03	0.0	1.7	SURCHARGED
S1.004	S5	53	135.777	0.763	0.000	0.05	0.0	2.4	SURCHARGED
S1.005	S14	53	135.777	0.933	0.000	0.58	0.0	10.2	SURCHARGED

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Summary Wizard of 4320 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	67	136.304	-0.096	0.000	0.01	0.0	0.1	OK
S2.000	S2	67	136.307	-0.093	0.000	0.01	0.0	0.1	OK
S2.001	S3	64	135.791	-0.140	0.000	0.01	0.0	0.2	OK
S1.001	S2	57	135.777	0.009	0.000	0.01	0.0	0.3	SURCHARGED
S3.000	S5	66	135.803	-0.147	0.000	0.00	0.0	0.1	OK
S3.001	S6	57	135.776	0.219	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	66	135.802	-0.148	0.000	0.00	0.0	0.1	OK
S3.002	S7	57	135.776	0.471	0.000	0.07	0.0	0.9	SURCHARGED
S5.000	S9	67	135.904	-0.096	0.000	0.01	0.0	0.1	OK
S5.001	S10	57	135.776	-0.037	0.000	0.01	0.0	0.1	OK
S1.002	S3	57	135.776	0.518	0.000	0.04	0.0	1.7	SURCHARGED
S1.003	S4	57	135.775	0.625	0.000	0.04	0.0	2.0	SURCHARGED
S1.004	S5	57	135.775	0.761	0.000	0.06	0.0	2.5	SURCHARGED
S1.005	S14	57	135.774	0.930	0.000	0.58	0.0	10.1	SURCHARGED

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Summary Wizard of 5760 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	72	136.303	-0.097	0.000	0.01	0.0	0.1	OK
S2.000	S2	72	136.306	-0.094	0.000	0.01	0.0	0.1	OK
S2.001	S3	66	135.789	-0.142	0.000	0.01	0.0	0.1	OK
S1.001	S2	58	135.774	0.006	0.000	0.01	0.0	0.3	SURCHARGED
S3.000	S5	70	135.802	-0.148	0.000	0.00	0.0	0.1	OK
S3.001	S6	58	135.774	0.217	0.000	0.02	0.0	0.4	SURCHARGED
S4.000	S7	70	135.801	-0.149	0.000	0.00	0.0	0.0	OK
S3.002	S7	58	135.774	0.469	0.000	0.07	0.0	1.0	SURCHARGED
S5.000	S9	72	135.903	-0.097	0.000	0.01	0.0	0.0	OK
S5.001	S10	58	135.774	-0.039	0.000	0.01	0.0	0.1	OK
S1.002	S3	58	135.773	0.515	0.000	0.04	0.0	1.8	SURCHARGED
S1.003	S4	58	135.774	0.624	0.000	0.04	0.0	2.1	SURCHARGED
S1.004	S5	58	135.773	0.759	0.000	0.06	0.0	2.7	SURCHARGED
S1.005	S14	58	135.773	0.929	0.000	0.59	0.0	10.3	SURCHARGED

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Summary Wizard of 7200 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	74	136.303	-0.097	0.000	0.01	0.0	0.0	OK
S2.000	S2	74	136.305	-0.095	0.000	0.01	0.0	0.1	OK
S2.001	S3	74	135.786	-0.145	0.000	0.01	0.0	0.1	OK
S1.001	S2	61	135.771	0.003	0.000	0.01	0.0	0.2	SURCHARGED
S3.000	S5	74	135.802	-0.148	0.000	0.00	0.0	0.1	OK
S3.001	S6	61	135.771	0.214	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	74	135.801	-0.149	0.000	0.00	0.0	0.0	OK
S3.002	S7	61	135.771	0.466	0.000	0.07	0.0	0.9	SURCHARGED
S5.000	S9	74	135.903	-0.097	0.000	0.01	0.0	0.0	OK
S5.001	S10	61	135.771	-0.042	0.000	0.00	0.0	0.1	OK
S1.002	S3	61	135.770	0.512	0.000	0.03	0.0	1.6	SURCHARGED
S1.003	S4	61	135.771	0.621	0.000	0.04	0.0	2.1	SURCHARGED
S1.004	S5	61	135.771	0.757	0.000	0.07	0.0	2.9	SURCHARGED
S1.005	S14	61	135.770	0.926	0.000	0.62	0.0	10.8	SURCHARGED

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Summary Wizard of 8640 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	75	136.302	-0.098	0.000	0.01	0.0	0.0	OK
S2.000	S2	75	136.304	-0.096	0.000	0.01	0.0	0.1	OK
S2.001	S3	75	135.785	-0.146	0.000	0.01	0.0	0.1	OK
S1.001	S2	66	135.766	-0.002	0.000	0.00	0.0	0.2	OK
S3.000	S5	75	135.802	-0.148	0.000	0.00	0.0	0.1	OK
S3.001	S6	66	135.766	0.209	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	75	135.801	-0.149	0.000	0.00	0.0	0.0	OK
S3.002	S7	66	135.766	0.461	0.000	0.06	0.0	0.9	SURCHARGED
S5.000	S9	75	135.902	-0.098	0.000	0.00	0.0	0.0	OK
S5.001	S10	66	135.766	-0.047	0.000	0.00	0.0	0.0	OK
S1.002	S3	66	135.766	0.508	0.000	0.03	0.0	1.4	SURCHARGED
S1.003	S4	66	135.766	0.616	0.000	0.04	0.0	1.8	SURCHARGED
S1.004	S5	66	135.766	0.752	0.000	0.06	0.0	2.6	SURCHARGED
S1.005	S14	66	135.766	0.922	0.000	0.59	0.0	10.4	SURCHARGED

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Summary Wizard of 10080 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	76	136.302	-0.098	0.000	0.00	0.0	0.0	OK
S2.000	S2	76	136.304	-0.096	0.000	0.01	0.0	0.1	OK
S2.001	S3	76	135.785	-0.146	0.000	0.01	0.0	0.1	OK
S1.001	S2	75	135.653	-0.115	0.000	0.00	0.0	0.1	OK
S3.000	S5	76	135.802	-0.148	0.000	0.00	0.0	0.0	OK
S3.001	S6	72	135.653	0.096	0.000	0.01	0.0	0.2	SURCHARGED
S4.000	S7	76	135.801	-0.149	0.000	0.00	0.0	0.0	OK
S3.002	S7	72	135.654	0.349	0.000	0.05	0.0	0.7	SURCHARGED
S5.000	S9	76	135.902	-0.098	0.000	0.00	0.0	0.0	OK
S5.001	S10	76	135.715	-0.098	0.000	0.00	0.0	0.0	OK
S1.002	S3	72	135.654	0.396	0.000	0.02	0.0	1.1	SURCHARGED
S1.003	S4	72	135.654	0.504	0.000	0.03	0.0	1.6	SURCHARGED
S1.004	S5	72	135.654	0.640	0.000	0.06	0.0	2.4	SURCHARGED
S1.005	S14	72	135.654	0.810	0.000	0.47	0.0	8.3	SURCHARGED

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Summary Wizard of 15 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	1	136.346	-0.054	0.000	0.42	0.0	3.6	OK
S2.000	S2	1	136.365	-0.035	0.000	0.73	0.0	5.6	OK
S2.001	S3	15	135.857	-0.074	0.000	0.50	0.0	9.1	OK
S1.001	S2	32	135.807	0.039	0.000	0.34	0.0	12.2	SURCHARGED
S3.000	S5	17	135.845	-0.105	0.000	0.19	0.0	4.2	OK
S3.001	S6	32	135.805	0.248	0.000	0.13	0.0	3.1	SURCHARGED
S4.000	S7	17	135.834	-0.116	0.000	0.11	0.0	3.0	OK
S3.002	S7	32	135.803	0.498	0.000	0.39	0.0	5.3	SURCHARGED
S5.000	S9	8	135.944	-0.056	0.000	0.40	0.0	3.0	OK
S5.001	S10	32	135.805	-0.008	0.000	0.29	0.0	3.6	OK
S1.002	S3	32	135.802	0.544	0.000	0.42	0.0	19.4	SURCHARGED
S1.003	S4	32	135.799	0.649	0.000	0.38	0.0	19.8	SURCHARGED
S1.004	S5	34	135.797	0.783	0.000	0.65	0.0	28.3	SURCHARGED
S1.005	S14	34	135.795	0.951	0.000	0.13	0.0	2.3	SURCHARGED

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Summary Wizard of 30 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	4	136.341	-0.059	0.000	0.35	0.0	3.0	OK
S2.000	S2	4	136.357	-0.043	0.000	0.61	0.0	4.6	OK
S2.001	S3	6	135.994	0.063	0.000	0.41	0.0	7.4	SURCHARGED
S1.001	S2	6	135.982	0.214	0.000	0.26	0.0	9.5	SURCHARGED
S3.000	S5	6	135.984	0.034	0.000	0.16	0.0	3.5	SURCHARGED
S3.001	S6	6	135.977	0.420	0.000	0.11	0.0	2.5	SURCHARGED
S4.000	S7	6	135.977	0.027	0.000	0.09	0.0	2.5	SURCHARGED
S3.002	S7	6	135.972	0.667	0.000	0.31	0.0	4.2	SURCHARGED
S5.000	S9	6	135.986	-0.014	0.000	0.33	0.0	2.4	OK
S5.001	S10	6	135.978	0.165	0.000	0.24	0.0	2.9	SURCHARGED
S1.002	S3	6	135.968	0.710	0.000	0.34	0.0	15.6	SURCHARGED
S1.003	S4	6	135.959	0.809	0.000	0.31	0.0	16.0	SURCHARGED
S1.004	S5	6	135.951	0.937	0.000	0.54	0.0	23.5	SURCHARGED
S1.005	S14	6	135.944	1.100	0.000	0.60	0.0	10.5	SURCHARGED

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Summary Wizard of 60 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	6	136.333	-0.067	0.000	0.24	0.0	2.0	OK
S2.000	S2	6	136.345	-0.055	0.000	0.42	0.0	3.2	OK
S2.001	S3	1	136.080	0.149	0.000	0.28	0.0	5.1	SURCHARGED
S1.001	S2	1	136.066	0.298	0.000	0.17	0.0	6.4	SURCHARGED
S3.000	S5	1	136.069	0.119	0.000	0.11	0.0	2.4	FLOOD RISK
S3.001	S6	1	136.060	0.503	0.000	0.07	0.0	1.6	FLOOD RISK
S4.000	S7	1	136.060	0.110	0.000	0.06	0.0	1.7	FLOOD RISK
S3.002	S7	1	136.054	0.749	0.000	0.21	0.0	2.8	FLOOD RISK
S5.000	S9	1	136.071	0.071	0.000	0.23	0.0	1.7	SURCHARGED
S5.001	S10	1	136.062	0.249	0.000	0.16	0.0	1.9	SURCHARGED
S1.002	S3	1	136.050	0.792	0.000	0.23	0.0	10.6	SURCHARGED
S1.003	S4	1	136.039	0.889	0.000	0.21	0.0	10.9	SURCHARGED
S1.004	S5	1	136.030	1.016	0.000	0.37	0.0	16.1	FLOOD RISK
S1.005	S14	1	136.021	1.177	0.000	0.72	0.0	12.7	FLOOD RISK

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Summary Wizard of 120 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	13	136.326	-0.074	0.000	0.16	0.0	1.3	OK
S2.000	S2	13	136.336	-0.064	0.000	0.28	0.0	2.1	OK
S2.001	S3	4	136.019	0.088	0.000	0.17	0.0	3.1	SURCHARGED
S1.001	S2	4	136.008	0.240	0.000	0.12	0.0	4.4	SURCHARGED
S3.000	S5	4	136.009	0.059	0.000	0.06	0.0	1.4	SURCHARGED
S3.001	S6	4	136.002	0.445	0.000	0.06	0.0	1.4	SURCHARGED
S4.000	S7	4	136.002	0.052	0.000	0.04	0.0	1.0	SURCHARGED
S3.002	S7	3	135.997	0.692	0.000	0.17	0.0	2.4	SURCHARGED
S5.000	S9	4	136.011	0.011	0.000	0.15	0.0	1.1	SURCHARGED
S5.001	S10	4	136.003	0.190	0.000	0.10	0.0	1.2	SURCHARGED
S1.002	S3	3	135.993	0.735	0.000	0.17	0.0	7.9	SURCHARGED
S1.003	S4	3	135.983	0.833	0.000	0.15	0.0	8.0	SURCHARGED
S1.004	S5	3	135.976	0.962	0.000	0.26	0.0	11.3	SURCHARGED
S1.005	S14	3	135.967	1.123	0.000	0.64	0.0	11.1	FLOOD RISK

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Summary Wizard of 180 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	17	136.323	-0.077	0.000	0.12	0.0	1.0	OK
S2.000	S2	17	136.331	-0.069	0.000	0.21	0.0	1.6	OK
S2.001	S3	8	135.949	0.018	0.000	0.14	0.0	2.5	SURCHARGED
S1.001	S2	8	135.939	0.171	0.000	0.10	0.0	3.6	SURCHARGED
S3.000	S5	8	135.941	-0.009	0.000	0.05	0.0	1.2	OK
S3.001	S6	8	135.935	0.378	0.000	0.05	0.0	1.2	SURCHARGED
S4.000	S7	8	135.935	-0.015	0.000	0.03	0.0	0.8	OK
S3.002	S7	8	135.930	0.625	0.000	0.15	0.0	2.0	SURCHARGED
S5.000	S9	10	135.943	-0.057	0.000	0.11	0.0	0.8	OK
S5.001	S10	8	135.936	0.123	0.000	0.08	0.0	1.0	SURCHARGED
S1.002	S3	8	135.927	0.669	0.000	0.14	0.0	6.5	SURCHARGED
S1.003	S4	8	135.919	0.769	0.000	0.13	0.0	6.7	SURCHARGED
S1.004	S5	8	135.913	0.899	0.000	0.21	0.0	9.3	SURCHARGED
S1.005	S14	8	135.906	1.062	0.000	0.53	0.0	9.3	SURCHARGED

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Summary Wizard of 240 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	20	136.321	-0.079	0.000	0.10	0.0	0.8	OK
S2.000	S2	20	136.328	-0.072	0.000	0.17	0.0	1.3	OK
S2.001	S3	10	135.902	-0.029	0.000	0.12	0.0	2.1	OK
S1.001	S2	10	135.894	0.126	0.000	0.08	0.0	3.0	SURCHARGED
S3.000	S5	10	135.895	-0.055	0.000	0.05	0.0	1.0	OK
S3.001	S6	10	135.890	0.333	0.000	0.04	0.0	1.0	SURCHARGED
S4.000	S7	10	135.890	-0.060	0.000	0.03	0.0	0.7	OK
S3.002	S7	10	135.886	0.581	0.000	0.12	0.0	1.7	SURCHARGED
S5.000	S9	20	135.921	-0.079	0.000	0.09	0.0	0.7	OK
S5.001	S10	10	135.891	0.078	0.000	0.07	0.0	0.8	SURCHARGED
S1.002	S3	10	135.884	0.626	0.000	0.12	0.0	5.5	SURCHARGED
S1.003	S4	10	135.877	0.727	0.000	0.11	0.0	5.7	SURCHARGED
S1.004	S5	10	135.872	0.858	0.000	0.18	0.0	7.9	SURCHARGED
S1.005	S14	10	135.866	1.022	0.000	0.45	0.0	7.9	SURCHARGED

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Summary Wizard of 360 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	24	136.318	-0.082	0.000	0.08	0.0	0.6	OK
S2.000	S2	24	136.324	-0.076	0.000	0.13	0.0	1.0	OK
S2.001	S3	13	135.869	-0.062	0.000	0.09	0.0	1.6	OK
S1.001	S2	13	135.863	0.095	0.000	0.06	0.0	2.3	SURCHARGED
S3.000	S5	13	135.864	-0.086	0.000	0.03	0.0	0.7	OK
S3.001	S6	13	135.860	0.303	0.000	0.03	0.0	0.7	SURCHARGED
S4.000	S7	13	135.860	-0.090	0.000	0.02	0.0	0.5	OK
S3.002	S7	13	135.857	0.552	0.000	0.09	0.0	1.3	SURCHARGED
S5.000	S9	24	135.917	-0.083	0.000	0.07	0.0	0.5	OK
S5.001	S10	13	135.861	0.048	0.000	0.05	0.0	0.6	SURCHARGED
S1.002	S3	13	135.855	0.597	0.000	0.09	0.0	4.2	SURCHARGED
S1.003	S4	13	135.850	0.700	0.000	0.08	0.0	4.3	SURCHARGED
S1.004	S5	13	135.846	0.832	0.000	0.14	0.0	6.0	SURCHARGED
S1.005	S14	13	135.841	0.997	0.000	0.34	0.0	6.0	SURCHARGED

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Summary Wizard of 480 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	29	136.316	-0.084	0.000	0.06	0.0	0.5	OK
S2.000	S2	29	136.322	-0.078	0.000	0.11	0.0	0.8	OK
S2.001	S3	18	135.850	-0.081	0.000	0.07	0.0	1.3	OK
S1.001	S2	16	135.845	0.077	0.000	0.05	0.0	1.9	SURCHARGED
S3.000	S5	16	135.846	-0.104	0.000	0.03	0.0	0.6	OK
S3.001	S6	16	135.843	0.286	0.000	0.03	0.0	0.6	SURCHARGED
S4.000	S7	16	135.843	-0.107	0.000	0.02	0.0	0.4	OK
S3.002	S7	15	135.841	0.536	0.000	0.08	0.0	1.1	SURCHARGED
S5.000	S9	29	135.915	-0.085	0.000	0.06	0.0	0.4	OK
S5.001	S10	15	135.844	0.031	0.000	0.04	0.0	0.5	SURCHARGED
S1.002	S3	15	135.839	0.581	0.000	0.07	0.0	3.4	SURCHARGED
S1.003	S4	15	135.835	0.685	0.000	0.07	0.0	3.5	SURCHARGED
S1.004	S5	15	135.832	0.818	0.000	0.11	0.0	4.9	SURCHARGED
S1.005	S14	15	135.829	0.985	0.000	0.28	0.0	4.9	SURCHARGED

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Summary Wizard of 600 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	32	136.315	-0.085	0.000	0.05	0.0	0.4	OK
S2.000	S2	32	136.320	-0.080	0.000	0.09	0.0	0.7	OK
S2.001	S3	19	135.838	-0.093	0.000	0.06	0.0	1.1	OK
S1.001	S2	17	135.833	0.065	0.000	0.04	0.0	1.6	SURCHARGED
S3.000	S5	19	135.834	-0.116	0.000	0.02	0.0	0.5	OK
S3.001	S6	17	135.831	0.274	0.000	0.02	0.0	0.5	SURCHARGED
S4.000	S7	19	135.831	-0.119	0.000	0.01	0.0	0.4	OK
S3.002	S7	17	135.829	0.524	0.000	0.07	0.0	0.9	SURCHARGED
S5.000	S9	32	135.914	-0.086	0.000	0.05	0.0	0.4	OK
S5.001	S10	17	135.832	0.019	0.000	0.04	0.0	0.4	SURCHARGED
S1.002	S3	17	135.828	0.570	0.000	0.06	0.0	2.9	SURCHARGED
S1.003	S4	17	135.824	0.674	0.000	0.06	0.0	3.0	SURCHARGED
S1.004	S5	17	135.821	0.807	0.000	0.10	0.0	4.2	SURCHARGED
S1.005	S14	17	135.818	0.974	0.000	0.24	0.0	4.2	SURCHARGED

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Summary Wizard of 720 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	35	136.314	-0.086	0.000	0.05	0.0	0.4	OK
S2.000	S2	35	136.319	-0.081	0.000	0.08	0.0	0.6	OK
S2.001	S3	24	135.828	-0.103	0.000	0.05	0.0	1.0	OK
S1.001	S2	19	135.825	0.057	0.000	0.04	0.0	1.4	SURCHARGED
S3.000	S5	26	135.826	-0.124	0.000	0.02	0.0	0.5	OK
S3.001	S6	19	135.823	0.266	0.000	0.02	0.0	0.5	SURCHARGED
S4.000	S7	23	135.823	-0.127	0.000	0.01	0.0	0.3	OK
S3.002	S7	19	135.821	0.516	0.000	0.06	0.0	0.8	SURCHARGED
S5.000	S9	35	135.913	-0.087	0.000	0.04	0.0	0.3	OK
S5.001	S10	19	135.823	0.010	0.000	0.03	0.0	0.4	SURCHARGED
S1.002	S3	19	135.820	0.562	0.000	0.06	0.0	2.6	SURCHARGED
S1.003	S4	19	135.817	0.667	0.000	0.05	0.0	2.6	SURCHARGED
S1.004	S5	19	135.814	0.800	0.000	0.08	0.0	3.7	SURCHARGED
S1.005	S14	19	135.812	0.968	0.000	0.21	0.0	3.7	SURCHARGED

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Summary Wizard of 960 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	39	136.312	-0.088	0.000	0.04	0.0	0.3	OK
S2.000	S2	39	136.317	-0.083	0.000	0.07	0.0	0.5	OK
S2.001	S3	33	135.817	-0.114	0.000	0.04	0.0	0.8	OK
S1.001	S2	25	135.814	0.046	0.000	0.03	0.0	1.1	SURCHARGED
S3.000	S5	35	135.819	-0.131	0.000	0.02	0.0	0.4	OK
S3.001	S6	25	135.813	0.256	0.000	0.02	0.0	0.4	SURCHARGED
S4.000	S7	34	135.816	-0.134	0.000	0.01	0.0	0.3	OK
S3.002	S7	24	135.811	0.506	0.000	0.05	0.0	0.6	SURCHARGED
S5.000	S9	39	135.912	-0.088	0.000	0.04	0.0	0.3	OK
S5.001	S10	25	135.813	0.000	0.000	0.03	0.0	0.3	SURCHARGED
S1.002	S3	24	135.810	0.552	0.000	0.05	0.0	2.1	SURCHARGED
S1.003	S4	24	135.808	0.658	0.000	0.04	0.0	2.1	SURCHARGED
S1.004	S5	24	135.806	0.792	0.000	0.07	0.0	3.0	SURCHARGED
S1.005	S14	24	135.804	0.960	0.000	0.17	0.0	3.0	SURCHARGED

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Summary Wizard of 1440 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	45	136.311	-0.089	0.000	0.03	0.0	0.2	OK
S2.000	S2	45	136.314	-0.086	0.000	0.05	0.0	0.4	OK
S2.001	S3	45	135.808	-0.123	0.000	0.03	0.0	0.6	OK
S1.001	S2	36	135.802	0.034	0.000	0.02	0.0	0.8	SURCHARGED
S3.000	S5	45	135.814	-0.136	0.000	0.01	0.0	0.3	OK
S3.001	S6	36	135.801	0.244	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	45	135.809	-0.141	0.000	0.01	0.0	0.2	OK
S3.002	S7	36	135.800	0.495	0.000	0.04	0.0	0.5	SURCHARGED
S5.000	S9	45	135.911	-0.089	0.000	0.03	0.0	0.2	OK
S5.001	S10	36	135.801	-0.012	0.000	0.02	0.0	0.2	OK
S1.002	S3	36	135.799	0.541	0.000	0.03	0.0	1.6	SURCHARGED
S1.003	S4	36	135.797	0.647	0.000	0.03	0.0	1.6	SURCHARGED
S1.004	S5	36	135.796	0.782	0.000	0.05	0.0	2.2	SURCHARGED
S1.005	S14	36	135.794	0.950	0.000	0.13	0.0	2.2	SURCHARGED

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Summary Wizard of 2160 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	50	136.310	-0.090	0.000	0.02	0.0	0.2	OK
S2.000	S2	50	136.312	-0.088	0.000	0.04	0.0	0.3	OK
S2.001	S3	50	135.801	-0.130	0.000	0.02	0.0	0.4	OK
S1.001	S2	42	135.793	0.025	0.000	0.02	0.0	0.6	SURCHARGED
S3.000	S5	50	135.809	-0.141	0.000	0.01	0.0	0.2	OK
S3.001	S6	42	135.792	0.235	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	50	135.805	-0.145	0.000	0.01	0.0	0.1	OK
S3.002	S7	42	135.791	0.486	0.000	0.06	0.0	0.9	SURCHARGED
S5.000	S9	50	135.909	-0.091	0.000	0.02	0.0	0.1	OK
S5.001	S10	42	135.792	-0.021	0.000	0.01	0.0	0.2	OK
S1.002	S3	42	135.791	0.533	0.000	0.03	0.0	1.5	SURCHARGED
S1.003	S4	42	135.789	0.639	0.000	0.03	0.0	1.8	SURCHARGED
S1.004	S5	42	135.788	0.774	0.000	0.05	0.0	2.2	SURCHARGED
S1.005	S14	42	135.787	0.943	0.000	0.56	0.0	9.7	SURCHARGED

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Summary Wizard of 2880 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	53	136.308	-0.092	0.000	0.02	0.0	0.1	OK
S2.000	S2	53	136.311	-0.089	0.000	0.03	0.0	0.2	OK
S2.001	S3	53	135.799	-0.132	0.000	0.02	0.0	0.4	OK
S1.001	S2	45	135.788	0.020	0.000	0.01	0.0	0.5	SURCHARGED
S3.000	S5	53	135.807	-0.143	0.000	0.01	0.0	0.2	OK
S3.001	S6	45	135.787	0.230	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	51	135.804	-0.146	0.000	0.00	0.0	0.1	OK
S3.002	S7	45	135.787	0.482	0.000	0.06	0.0	0.9	SURCHARGED
S5.000	S9	53	135.908	-0.092	0.000	0.02	0.0	0.1	OK
S5.001	S10	45	135.787	-0.026	0.000	0.01	0.0	0.1	OK
S1.002	S3	45	135.786	0.528	0.000	0.03	0.0	1.5	SURCHARGED
S1.003	S4	45	135.785	0.635	0.000	0.03	0.0	1.8	SURCHARGED
S1.004	S5	45	135.784	0.770	0.000	0.05	0.0	2.2	SURCHARGED
S1.005	S14	45	135.783	0.939	0.000	0.56	0.0	9.7	SURCHARGED

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Summary Wizard of 4320 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	58	136.306	-0.094	0.000	0.01	0.0	0.1	OK
S2.000	S2	58	136.310	-0.090	0.000	0.02	0.0	0.2	OK
S2.001	S3	58	135.796	-0.135	0.000	0.01	0.0	0.3	OK
S1.001	S2	51	135.782	0.014	0.000	0.01	0.0	0.4	SURCHARGED
S3.000	S5	58	135.805	-0.145	0.000	0.01	0.0	0.1	OK
S3.001	S6	51	135.782	0.225	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	58	135.803	-0.147	0.000	0.00	0.0	0.1	OK
S3.002	S7	51	135.781	0.476	0.000	0.07	0.0	1.0	SURCHARGED
S5.000	S9	58	135.906	-0.094	0.000	0.01	0.0	0.1	OK
S5.001	S10	51	135.782	-0.031	0.000	0.01	0.0	0.1	OK
S1.002	S3	51	135.781	0.523	0.000	0.04	0.0	1.8	SURCHARGED
S1.003	S4	51	135.780	0.630	0.000	0.04	0.0	2.1	SURCHARGED
S1.004	S5	51	135.779	0.765	0.000	0.06	0.0	2.7	SURCHARGED
S1.005	S14	51	135.779	0.935	0.000	0.59	0.0	10.3	SURCHARGED

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Summary Wizard of 5760 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	63	136.305	-0.095	0.000	0.01	0.0	0.1	OK
S2.000	S2	63	136.308	-0.092	0.000	0.02	0.0	0.1	OK
S2.001	S3	61	135.793	-0.138	0.000	0.01	0.0	0.2	OK
S1.001	S2	54	135.779	0.011	0.000	0.01	0.0	0.5	SURCHARGED
S3.000	S5	62	135.804	-0.146	0.000	0.00	0.0	0.1	OK
S3.001	S6	54	135.779	0.222	0.000	0.02	0.0	0.4	SURCHARGED
S4.000	S7	62	135.802	-0.148	0.000	0.00	0.0	0.1	OK
S3.002	S7	54	135.779	0.474	0.000	0.08	0.0	1.0	SURCHARGED
S5.000	S9	63	135.905	-0.095	0.000	0.01	0.0	0.1	OK
S5.001	S10	54	135.779	-0.034	0.000	0.01	0.0	0.1	OK
S1.002	S3	54	135.778	0.520	0.000	0.04	0.0	1.9	SURCHARGED
S1.003	S4	54	135.777	0.627	0.000	0.05	0.0	2.4	SURCHARGED
S1.004	S5	54	135.777	0.763	0.000	0.07	0.0	3.1	SURCHARGED
S1.005	S14	54	135.776	0.932	0.000	0.61	0.0	10.7	SURCHARGED

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Summary Wizard of 7200 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	66	136.304	-0.096	0.000	0.01	0.0	0.1	OK
S2.000	S2	66	136.307	-0.093	0.000	0.02	0.0	0.1	OK
S2.001	S3	68	135.788	-0.143	0.000	0.01	0.0	0.2	OK
S1.001	S2	59	135.774	0.006	0.000	0.01	0.0	0.3	SURCHARGED
S3.000	S5	67	135.803	-0.147	0.000	0.00	0.0	0.1	OK
S3.001	S6	59	135.774	0.217	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	67	135.802	-0.148	0.000	0.00	0.0	0.1	OK
S3.002	S7	59	135.773	0.468	0.000	0.07	0.0	1.0	SURCHARGED
S5.000	S9	66	135.904	-0.096	0.000	0.01	0.0	0.1	OK
S5.001	S10	59	135.774	-0.039	0.000	0.01	0.0	0.1	OK
S1.002	S3	59	135.773	0.515	0.000	0.04	0.0	1.7	SURCHARGED
S1.003	S4	59	135.773	0.623	0.000	0.04	0.0	2.1	SURCHARGED
S1.004	S5	59	135.773	0.759	0.000	0.06	0.0	2.7	SURCHARGED
S1.005	S14	59	135.772	0.928	0.000	0.59	0.0	10.3	SURCHARGED

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Summary Wizard of 8640 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	69	136.304	-0.096	0.000	0.01	0.0	0.1	OK
S2.000	S2	69	136.306	-0.094	0.000	0.01	0.0	0.1	OK
S2.001	S3	70	135.787	-0.144	0.000	0.01	0.0	0.2	OK
S1.001	S2	62	135.770	0.002	0.000	0.01	0.0	0.2	SURCHARGED
S3.000	S5	69	135.802	-0.148	0.000	0.00	0.0	0.1	OK
S3.001	S6	62	135.770	0.213	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	69	135.801	-0.149	0.000	0.00	0.0	0.1	OK
S3.002	S7	62	135.770	0.465	0.000	0.07	0.0	0.9	SURCHARGED
S5.000	S9	69	135.903	-0.097	0.000	0.01	0.0	0.1	OK
S5.001	S10	62	135.770	-0.043	0.000	0.01	0.0	0.1	OK
S1.002	S3	62	135.770	0.512	0.000	0.03	0.0	1.6	SURCHARGED
S1.003	S4	62	135.770	0.620	0.000	0.04	0.0	2.1	SURCHARGED
S1.004	S5	62	135.770	0.756	0.000	0.07	0.0	2.9	SURCHARGED
S1.005	S14	62	135.770	0.926	0.000	0.62	0.0	10.8	SURCHARGED

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Summary Wizard of 10080 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.294
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	2, 30
Climate Change (%)	0, 0

PN	US/MH Name	Rank	Water Level (m)	Surch'ed Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
S1.000	S1	71	136.303	-0.097	0.000	0.01	0.0	0.1	OK
S2.000	S2	71	136.306	-0.094	0.000	0.01	0.0	0.1	OK
S2.001	S3	72	135.787	-0.144	0.000	0.01	0.0	0.1	OK
S1.001	S2	64	135.769	0.001	0.000	0.01	0.0	0.2	SURCHARGED
S3.000	S5	72	135.802	-0.148	0.000	0.00	0.0	0.1	OK
S3.001	S6	65	135.768	0.211	0.000	0.01	0.0	0.3	SURCHARGED
S4.000	S7	72	135.801	-0.149	0.000	0.00	0.0	0.0	OK
S3.002	S7	64	135.768	0.463	0.000	0.06	0.0	0.8	SURCHARGED
S5.000	S9	71	135.903	-0.097	0.000	0.01	0.0	0.0	OK
S5.001	S10	64	135.769	-0.044	0.000	0.00	0.0	0.1	OK
S1.002	S3	64	135.768	0.510	0.000	0.03	0.0	1.4	SURCHARGED
S1.003	S4	64	135.768	0.618	0.000	0.04	0.0	1.9	SURCHARGED
S1.004	S5	64	135.768	0.754	0.000	0.06	0.0	2.7	SURCHARGED
S1.005	S14	64	135.768	0.924	0.000	0.60	0.0	10.6	SURCHARGED

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