

APPENDIX 13.8

WINTER PRECIPITATION ANOMALY

header length	16
Area	387500.0 412500.0
Baseline	1981-2000
Data Source	Land probabilistic projections
Data Type	cdf
Scenario	RCP 8.5
Show Labels	TRUE
Software Version	WPS-2.7.0-DP-2.7.0-CV-1.0.8
Spatial Representation	25km grid
Temporal Average Type	Seasonal
Time Period	December January February
Time Slice Type	1-year time slices
Variable	Precipitation rate anomaly (%)
Year Maximum	2100
Year Minimum	2023

Date	Precipitation rate anomaly (%)(5th Percentile)	Precipitation rate anomaly (%)(10th Percentile)	Precipitation rate anomaly (%) (25th Percentile)	Precipitation rate anomaly (%)(50th Percentile)
16/01/2023	-35.34793	-28.64279	-15.311459	2.6049294
16/01/2024	-35.285114	-28.590858	-15.321781	2.552187
16/01/2025	-35.20813	-28.523483	-15.320307	2.4985662
16/01/2026	-35.118587	-28.441523	-15.306791	2.4459436
16/01/2027	-35.01819	-28.345966	-15.281026	2.3963108
16/01/2028	-34.908653	-28.237886	-15.242811	2.3517554
16/01/2029	-34.79166	-28.11837	-15.1919365	2.3144364
16/01/2030	-34.668736	-27.988476	-15.128159	2.2865522
16/01/2031	-34.541233	-27.849176	-15.051207	2.2703001
16/01/2032	-34.410267	-27.70134	-14.960783	2.2678328
16/01/2033	-34.276707	-27.545702	-14.856583	2.2812037
16/01/2034	-34.14116	-27.382877	-14.738332	2.3123124
16/01/2035	-34.004025	-27.213373	-14.6058235	2.362842
16/01/2036	-33.86551	-27.03763	-14.458972	2.4342036
16/01/2037	-33.7257	-26.856068	-14.297861	2.5274813
16/01/2038	-33.58463	-26.669134	-14.122786	2.6433928

16/01/2039	-33.44232	-26.477346	-13.93429	2.782263
16/01/2040	-33.298878	-26.281334	-13.733176	2.9440157
16/01/2041	-33.154476	-26.081861	-13.520506	3.1281848
16/01/2042	-33.009438	-25.879831	-13.297575	3.3339424
16/01/2043	-32.864204	-25.67628	-13.065873	3.5601413
16/01/2044	-32.71936	-25.472353	-12.827031	3.8053706
16/01/2045	-32.575592	-25.269278	-12.582755	4.068014
16/01/2046	-32.43368	-25.068316	-12.334763	4.3463125
16/01/2047	-32.294468	-24.870722	-12.084715	4.63842
16/01/2048	-32.15881	-24.677706	-11.834158	4.942455
16/01/2049	-32.02757	-24.490383	-11.584477	5.256542
16/01/2050	-31.901564	-24.309736	-11.336857	5.578845
16/01/2051	-31.781546	-24.13659	-11.092261	5.907586
16/01/2052	-31.668177	-23.97158	-10.851426	6.241061
16/01/2053	-31.562014	-23.815144	-10.614865	6.577646
16/01/2054	-31.463495	-23.667511	-10.382885	6.915794
16/01/2055	-31.372929	-23.528708	-10.155618	7.254039
16/01/2056	-31.290504	-23.398565	-9.933048	7.5909867
16/01/2057	-31.216293	-23.276754	-9.715058	7.925317
16/01/2058	-31.15026	-23.1628	-9.501461	8.255778
16/01/2059	-31.092287	-23.05613	-9.292039	8.581196
16/01/2060	-31.042185	-22.956104	-9.086575	8.900474
16/01/2061	-30.999725	-22.862062	-8.884878	9.212607
16/01/2062	-30.964655	-22.77336	-8.6868105	9.516696
16/01/2063	-30.936714	-22.689404	-8.492286	9.811954
16/01/2064	-30.915657	-22.60968	-8.301283	10.0977335
16/01/2065	-30.901255	-22.533781	-8.113839	10.373535
16/01/2066	-30.893291	-22.461393	-7.930032	10.639025
16/01/2067	-30.891554	-22.392305	-7.749964	10.894054
16/01/2068	-30.895803	-22.326387	-7.573736	11.138669
16/01/2069	-30.905746	-22.26355	-7.4014144	11.373132
16/01/2070	-30.920998	-22.203718	-7.2330008	11.597932
16/01/2071	-30.941042	-22.14678	-7.068399	11.813802

16/01/2072	-30.96519	-22.092543	-6.9073844	12.021733
16/01/2073	-30.992556	-22.04069	-6.7495766	12.222988
16/01/2074	-31.02202	-21.990744	-6.5944138	12.419111
16/01/2075	-31.052237	-21.942038	-6.4411426	12.611935
16/01/2076	-31.081621	-21.893698	-6.288807	12.803568
16/01/2077	-31.108389	-21.844643	-6.136258	12.996384
16/01/2078	-31.130573	-21.793598	-5.9821687	13.192984
16/01/2079	-31.146097	-21.739124	-5.8250623	13.396146
16/01/2080	-31.152826	-21.679659	-5.6633563	13.608755
16/01/2081	-31.148655	-21.613575	-5.495412	13.83372
16/01/2082	-31.131592	-21.539242	-5.3195934	14.073878
16/01/2083	-31.09984	-21.455101	-5.1343317	14.331881
16/01/2084	-31.051895	-21.359734	-4.9381886	14.61009
16/01/2085	-30.986624	-21.251932	-4.7299237	14.91047
16/01/2086	-30.903332	-21.13078	-4.5085516	15.234485
16/01/2087	-30.801828	-20.995695	-4.2733955	15.5830145
16/01/2088	-30.682465	-20.846487	-4.024132	15.956296
16/01/2089	-30.546143	-20.683392	-3.7608213	16.353876
16/01/2090	-30.394308	-20.507078	-3.4839234	16.774603
16/01/2091	-30.228909	-20.318645	-3.1942976	17.216644
16/01/2092	-30.05233	-20.119593	-2.8931835	17.67754
16/01/2093	-29.867308	-19.911774	-2.5821676	18.154276
16/01/2094	-29.676819	-19.69732	-2.2631323	18.643393
16/01/2095	-29.483973	-19.478582	-1.9381909	19.141111
16/01/2096	-29.29187	-19.258007	-1.609611	19.643482
16/01/2097	-29.103476	-19.03805	-1.2797271	20.146532
16/01/2098	-28.921492	-18.821064	-0.9508493	20.646427
16/01/2099	-28.748241	-18.6092	-0.62517506	21.1396

Precipitation rate anomaly (%) (75th Percentile)	Precipitation rate anomaly (%)(90th Percentile)	Precipitation rate anomaly (%)(95th Percentile)
18.875317	34.673374	45.635952
18.906355	34.75484	45.721626
18.925533	34.82807	45.80508
18.935879	34.898273	45.893017
18.940779	34.971054	45.992577
18.943882	35.05218	46.11103
18.948986	35.14736	46.255432
18.959932	35.261993	46.432316
18.980495	35.400967	46.64737
19.0143	35.56847	46.905178
19.064713	35.76783	47.20899
19.134787	36.0014	47.560566
19.227186	36.2705	47.960064
19.344147	36.575356	48.405994
19.487436	36.91515	48.895267
19.658344	37.28806	49.42329

19.857683	37.69137	49.98414
20.085798	38.121613	50.570793
20.342607	38.574738	51.175438
20.627628	39.046303	51.789764
20.940025	39.531662	52.405327
21.278646	40.026142	53.013847
21.642067	40.52523	53.607548
22.028608	41.024704	54.179386
22.436373	41.520718	54.723278
22.86324	42.009884	55.234222
23.306873	42.48929	55.708385
23.764734	42.956474	56.143093
24.23406	43.409397	56.536804
24.711884	43.84638	56.889004
25.195034	44.26602	57.2001
25.680176	44.667164	57.471275
26.16384	45.048805	57.70437
26.642485	45.41009	57.901745
27.112564	45.750286	58.066174
27.570608	46.068775	58.200752
28.013315	46.36509	58.308826
28.437641	46.638958	58.393948
28.840899	46.890354	58.459854
29.220833	47.119556	58.510452
29.575716	47.327236	58.549835
29.904406	47.51453	58.582306
30.206396	47.68309	58.61241
30.481865	47.835163	58.644955
30.731686	47.973633	58.685043
30.957434	48.10204	58.738083
31.16137	48.224586	58.809784
31.346416	48.346123	58.906143
31.516106	48.4721	59.033363

31.674528	48.60849	59.19781
31.826267	48.761696	59.405884
31.976313	48.938423	59.66391
32.129982	49.145542	59.977974
32.29282	49.389935	60.353794
32.47048	49.678303	60.796513
32.66862	50.017006	61.31057
32.89275	50.41185	61.89951
33.148113	50.86793	62.565845
33.439518	51.389427	63.31095
33.77121	51.979454	64.13494
34.146713	52.63994	65.036644
34.56871	53.371487	66.013565
35.038906	54.173332	67.061935
35.557938	55.043297	68.176765
36.125305	55.97779	69.351944
36.739323	56.971867	70.580414
37.397133	58.01931	71.8543
38.09474	59.112778	73.165115
38.827106	60.243988	74.503975
39.588287	61.40393	75.86183
40.371616	62.58316	77.22969
41.16994	63.772057	78.59886
41.975864	64.96117	79.9612
42.78202	66.14149	81.309265
43.58137	67.30477	82.63654
44.367435	68.4438	83.93754
45.134533	69.55253	85.20786