

THE RANCH PLAN PLANNED COMMUNITY
PLANNING AREAS 3 AND 4 RUNOFF MANAGEMENT PLAN

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INTERNATIONAL

TECHNICAL APPENDIX D.4

Existing Regional Rainfall Data

Table E-1 Orange County Rainfall Depth for Design Storm Events

Storm Event	Rainfall Input	5 min	30 min	1 hour	3 hour	6 hour	24 hour
		Non-Mountaneous (inches)					
100-Year HC ¹	100-Year ³	0.52	1.09	1.45	2.43	3.36	5.63
	50-Year ³	0.45	0.98	1.30	2.19	3.02	5.07
100-Year EV ²	25-Year ³	0.40	0.87	1.15	1.94	2.71	4.49
50-Year EV	15-Year ⁴	0.37	0.80	1.06	1.78	2.47	4.12
25-Year EV	10-Year ³	0.34	0.72	0.95	1.59	2.20	3.68
10-Year EV	5-Year ³	0.26	0.59	0.78	1.31	1.81	3.03
5-Year EV	5-Year * 0.7	0.18	0.41	0.55	0.92	1.27	2.12
	2-Year ³	0.19	0.40	0.53	0.89	1.22	2.05
2-Year EV	2-Year * 0.7	0.13	0.28	0.37	0.62	0.85	1.44
		Mountaneous (inches)					
100-Year HC	100-Year	0.78	1.34	1.94	3.96	6.19	11.27
	50-Year	0.71	1.19	1.73	3.52	5.51	10.02
100-Year EV	25-Year	0.63	1.04	1.51	3.08	4.81	8.76
50-Year EV	15-Year	0.56	0.95	1.38	2.82	4.40	8.01
25-Year EV	10-Year	0.50	0.84	1.22	2.48	3.87	7.05
10-Year EV	5-Year	0.40	0.68	0.99	2.01	3.14	5.71
5-Year EV	5-Year * 0.7	0.28	0.48	0.69	1.41	2.20	4.00
	2-Year	0.26	0.45	0.66	1.34	2.09	3.81
2-Year EV	2-Year * 0.7	0.18	0.32	0.46	0.94	1.46	2.67

Note:

1. HC: High Confidence, See Definition in OCHM Addendum No. 1, 1995
2. EV: Expected Value, See Definition in OCHM Addendum No. 1, 1995
3. The rainfall depth is read from OCHM Table B.2 for both Mountaneous and Non-Mountaneous area (see attached table)
4. 15-Year rainfall depth is derived by Orange County (see attached letter from County)

Table E-1A Orange County Rainfall Depth for Multi-Day Design Storm Events

Storm Event	Rainfall Input	5 min	30 min	1 hour	3 hour	6 hour	24 hour	2 Day	3 Day	4 Day	5 Day
Non-Mountanous (inches)											
100-Year HC ¹	100-Year ³	0.52	1.09	1.45	2.43	3.36	5.63	8.22	9.35	9.95	10.38
	50-Year ³	0.45	0.98	1.30	2.19	3.02	5.07	7.35	8.35	8.86	9.25
100-Year EV ²	25-Year ³	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
50-Year EV	15-Year ⁴	0.37	0.80	1.06	1.78	2.47	4.12				
25-Year EV	10-Year ³	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
10-Year EV	5-Year ³	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
5-Year EV	5-Year * 0.7	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
	2-Year ³	0.19	0.40	0.53	0.89	1.22	2.05	2.76	3.08	3.21	3.36
2-Year EV	2-Year * 0.7	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
Mountanous (inches)											
100-Year HC	100-Year	0.78	1.34	1.94	3.96	6.19	11.27	16.52	18.98	20.05	20.99
	50-Year	0.71	1.19	1.73	3.52	5.51	10.02	14.68	16.79	17.74	18.63
100-Year EV	25-Year	0.63	1.04	1.51	3.08	4.81	8.76	12.81	14.58	15.40	16.24
50-Year EV	15-Year	0.56	0.95	1.38	2.82	4.40	8.01				
25-Year EV	10-Year	0.50	0.84	1.22	2.48	3.87	7.05	10.26	11.58	12.23	12.98
10-Year EV	5-Year	0.40	0.68	0.99	2.01	3.14	5.71	8.25	9.23	9.75	10.40
5-Year EV	5-Year * 0.7	0.28	0.48	0.69	1.41	2.20	4.00	5.78	6.46	6.83	7.28
	2-Year	0.26	0.45	0.66	1.34	2.09	3.81	5.33	5.89	6.22	6.66
2-Year EV	2-Year * 0.7	0.18	0.32	0.46	0.94	1.46	2.67	3.73	4.12	4.35	4.66

Note:

1. HC: High Confidence, See Definition in OCHM Addendum No. 1, 1995
2. EV: Expected Value, See Definition in OCHM Addendum No. 1, 1995
3. The rainfall depth is read from OCHM Table B.2 for both Mountanous and Non-Mountanous area (see attached table)
4. 15-Year rainfall depth is derived by Orange County (see attached letter from County)

Table E-2 Orange County Rainfall Intensity for Design Storm Events

Storm Event	Rainfall Input	Coefficient		Duration (minutes)													
		a	b	5	10	15	20	25	30	40	50	60	90	120	180	360	1440
				Non-Mountainous (inches/hour)													
100-Year HC ¹	100-Year	15.560	-0.573	6.24	4.16	3.30	2.80	2.46	2.18	1.88	1.65	1.45	1.18	1.00	0.81	0.56	0.23
	50-Year	13.521	-0.566	5.40	3.67	2.92	2.48	2.19	1.96	1.68	1.48	1.30	1.06	0.90	0.73	0.50	0.21
100-Year EV ²	25-Year	11.995	-0.566	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
50-Year EV	15-Year	11.160	-0.569	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
25-Year EV	10-Year	10.209	-0.573	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
10-Year EV	5-Year	7.870	-0.562	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
5-Year EV	5-Year * 0.7			2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
	2-Year	5.702	-0.574	2.28	1.52	1.20	1.02	0.90	0.80	0.69	0.60	0.53	0.43	0.37	0.30	0.20	0.09
2-Year EV	2-Year * 0.7			1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
				Mountainous (inches/hour)													
100-Year HC	100-Year			9.36	6.15	4.53	3.61	3.12	2.68	2.36	2.13	1.94	1.71	1.53	1.32	1.03	0.47
	50-Year			8.52	0.00	0.00	0.00	0.00	2.38	0.00	0.00	1.73	0.00	0.00	1.17	0.92	0.42
100-Year EV	25-Year			7.56	4.62	3.47	2.76	2.34	2.08	1.82	1.54	1.51	1.32	1.19	1.03	0.80	0.37
50-Year EV	15-Year			6.72	4.09	3.02	2.48	2.10	1.90	1.59	1.43	1.38	1.17	1.04	0.94	0.73	0.33
25-Year EV	10-Year			6.00	3.82	2.81	2.26	1.95	1.68	1.49	1.33	1.22	1.06	0.96	0.83	0.65	0.29
10-Year EV	5-Year			4.80	3.08	2.09	1.80	1.55	1.36	1.19	1.07	0.99	0.85	0.78	0.67	0.52	0.24
5-Year EV	5-Year * 0.7			3.36	2.16	1.46	1.26	1.09	0.95	0.83	0.75	0.69	0.60	0.55	0.47	0.37	0.17
	2-Year			3.12	2.08	1.53	1.21	1.02	0.90	0.78	0.70	0.66	0.58	0.52	0.45	0.35	0.16
2-Year EV	2-Year * 0.7			2.18	1.46	1.07	0.85	0.71	0.63	0.55	0.49	0.46	0.41	0.36	0.31	0.24	0.11

Note:

1. HC: High Confidence, See Definition in OCHM Addendum No. 1, 1995
2. EV: Expected Value, See Definition in OCHM Addendum No. 1, 1995
3. The rainfall intensities for duration listed in Table E-1 are read from that table directly
4. The non-mountainous area rainfall intensities for other durations are calculated based on regression equation (See OCHM Figure B-3).
5. The mountainous area rainfall intensities for other durations are read from OCHM Figure B-4.

Table E-4: 100-Year Expected Value Weighted Rainfall Intensities (inch/hour)

Basin ID	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	10 min	15 min	20 min	25 min	30 min	40 min	50 min	60 min	90 min	120 min	180 min	360 min	1440 min
S1	2134	0.95734	0.04266	7.44	4.56	3.43	2.74	2.32	2.07	1.81	1.53	1.49	1.30	1.17	1.01	0.79	0.36
S2	1841	0.97669	0.02331	7.50	4.59	3.45	2.75	2.33	2.07	1.81	1.53	1.50	1.31	1.18	1.02	0.79	0.36
S3	2861	0.98360	0.01640	7.51	4.60	3.46	2.75	2.33	2.07	1.81	1.54	1.50	1.31	1.18	1.02	0.80	0.36
S4	1472	0.84026	0.15974	7.12	4.40	3.33	2.67	2.28	2.03	1.77	1.50	1.45	1.26	1.13	0.97	0.75	0.34
S5	918	0.84780	0.15221	7.14	4.41	3.34	2.67	2.28	2.03	1.77	1.51	1.46	1.26	1.13	0.97	0.75	0.34
S6	1312	0.60328	0.39672	6.47	4.08	3.12	2.54	2.18	1.95	1.69	1.45	1.37	1.17	1.03	0.88	0.66	0.29
S7	1965	0.92267	0.07733	7.35	4.51	3.40	2.72	2.31	2.05	1.79	1.52	1.48	1.29	1.16	1.00	0.77	0.35
S8	2269	0.44815	0.55185	6.04	3.87	2.98	2.45	2.12	1.89	1.64	1.41	1.31	1.11	0.97	0.82	0.61	0.27
S9	1827	0.70069	0.29931	6.73	4.21	3.21	2.59	2.22	1.98	1.72	1.47	1.40	1.21	1.07	0.91	0.70	0.31
S10	934	0.05226	0.94774	4.94	3.33	2.64	2.23	1.96	1.76	1.50	1.32	1.17	0.96	0.82	0.67	0.47	0.20
S11	1487	0.99977	0.00023	7.56	4.62	3.47	2.76	2.34	2.08	1.82	1.54	1.51	1.32	1.19	1.03	0.80	0.36
S12	2370	0.84579	0.15422	7.13	4.41	3.33	2.67	2.28	2.03	1.77	1.50	1.45	1.26	1.13	0.97	0.75	0.34
S13	2224	0.26353	0.73647	5.53	3.62	2.82	2.35	2.05	1.83	1.57	1.37	1.24	1.04	0.90	0.75	0.54	0.23
S14	1572	0.24208	0.75792	5.47	3.59	2.80	2.34	2.04	1.82	1.57	1.37	1.24	1.03	0.89	0.74	0.54	0.23
S15	2311	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S16	3204	0.51730	0.48270	6.23	3.96	3.05	2.49	2.15	1.92	1.66	1.43	1.34	1.14	1.00	0.84	0.63	0.28
S17	1188	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S18	1028	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S19.1	2673	0.16898	0.83102	5.27	3.49	2.74	2.30	2.01	1.80	1.54	1.35	1.21	1.00	0.86	0.71	0.51	0.22
S19.2	686	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S19	3358	0.13450	0.86550	5.17	3.44	2.71	2.28	1.99	1.79	1.53	1.34	1.20	0.99	0.85	0.70	0.50	0.21
S20	1914	0.95461	0.04539	7.43	4.56	3.43	2.73	2.32	2.06	1.80	1.53	1.49	1.30	1.17	1.01	0.79	0.36
S21	1774	0.53053	0.46948	6.26	3.98	3.06	2.50	2.15	1.92	1.66	1.43	1.34	1.14	1.01	0.85	0.64	0.28
S22	3743	0.15175	0.84825	5.22	3.46	2.72	2.29	2.00	1.79	1.54	1.35	1.20	1.00	0.86	0.70	0.50	0.21
S23	1584	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S24	1873	0.13705	0.86295	5.18	3.44	2.71	2.28	1.99	1.79	1.53	1.34	1.20	0.99	0.85	0.70	0.50	0.21
S25	2350	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S26	1006	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S27	1562	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S28	1066	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S29	966	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S30	2016	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S31	1781	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S32	1128	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S33	2190	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S34	1244	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S35	1580	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S36	2503	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S37	1239	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S38	1333	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19
S39	428	0.00000	1.00000	4.80	3.26	2.59	2.20	1.94	1.74	1.49	1.31	1.15	0.94	0.80	0.65	0.45	0.19

Table E-5: 50-Year Expected Value Weighted Rainfall Intensities (inch/hour)

Basin ID	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	10 min	15 min	20 min	25 min	30 min	40 min	50 min	60 min	90 min	120 min	180 min	360 min	1440 min
S1	2134	0.95734	0.04266	6.62	4.04	2.99	2.46	2.09	1.89	1.58	1.42	1.37	1.16	1.03	0.93	0.72	0.33
S2	1841	0.97669	0.02331	6.67	4.06	3.01	2.47	2.09	1.89	1.58	1.42	1.37	1.16	1.03	0.93	0.73	0.33
S3	2861	0.98360	0.01640	6.68	4.07	3.01	2.47	2.09	1.90	1.59	1.43	1.37	1.16	1.03	0.93	0.73	0.33
S4	1472	0.84026	0.15974	6.36	3.92	2.92	2.41	2.05	1.85	1.55	1.39	1.33	1.12	0.99	0.88	0.68	0.31
S5	918	0.84780	0.15221	6.37	3.93	2.92	2.41	2.05	1.85	1.56	1.40	1.33	1.12	0.99	0.89	0.68	0.31
S6	1312	0.60328	0.39672	5.82	3.66	2.77	2.30	1.98	1.78	1.50	1.34	1.25	1.05	0.92	0.80	0.61	0.27
S7	1965	0.92267	0.07733	6.54	4.01	2.97	2.45	2.08	1.88	1.57	1.41	1.36	1.15	1.02	0.91	0.71	0.32
S8	2269	0.44815	0.55185	5.46	3.49	2.67	2.23	1.93	1.73	1.47	1.31	1.20	1.00	0.87	0.75	0.56	0.24
S9	1827	0.70069	0.29931	6.04	3.77	2.83	2.35	2.01	1.81	1.52	1.36	1.28	1.08	0.95	0.84	0.64	0.29
S10	934	0.05226	0.94774	4.56	3.07	2.42	2.05	1.80	1.62	1.38	1.22	1.08	0.88	0.75	0.61	0.43	0.18
S11	1487	0.99977	0.00023	6.72	4.09	3.02	2.48	2.10	1.90	1.59	1.43	1.38	1.17	1.04	0.94	0.73	0.33
S12	2370	0.84579	0.15422	6.37	3.92	2.92	2.41	2.05	1.85	1.56	1.40	1.33	1.12	0.99	0.89	0.68	0.31
S13	2224	0.26353	0.73647	5.04	3.30	2.56	2.15	1.87	1.68	1.43	1.26	1.14	0.94	0.81	0.68	0.50	0.21
S14	1572	0.24208	0.75792	4.99	3.27	2.54	2.14	1.86	1.67	1.42	1.26	1.14	0.94	0.81	0.68	0.49	0.21
S15	2311	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S16	3204	0.51730	0.48270	5.62	3.57	2.72	2.26	1.95	1.76	1.48	1.32	1.23	1.02	0.89	0.77	0.58	0.26
S17	1188	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S18	1028	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S19.1	2673	0.16898	0.83102	4.83	3.19	2.50	2.11	1.84	1.65	1.41	1.24	1.11	0.91	0.78	0.65	0.47	0.20
S19.2	686	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S19	3358	0.13450	0.86550	4.75	3.16	2.48	2.09	1.83	1.64	1.40	1.24	1.10	0.90	0.77	0.64	0.45	0.19
S20	1914	0.95461	0.04539	6.62	4.04	2.99	2.46	2.09	1.89	1.58	1.42	1.37	1.16	1.03	0.92	0.72	0.33
S21	1774	0.53053	0.46948	5.65	3.58	2.72	2.27	1.95	1.76	1.49	1.32	1.23	1.03	0.90	0.78	0.58	0.26
S22	3743	0.15175	0.84825	4.79	3.17	2.49	2.10	1.83	1.65	1.40	1.24	1.11	0.91	0.78	0.65	0.46	0.20
S23	1584	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S24	1873	0.13705	0.86295	4.75	3.16	2.48	2.09	1.83	1.64	1.40	1.24	1.10	0.90	0.77	0.64	0.46	0.19
S25	2350	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S26	1006	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S27	1562	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S28	1066	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S29	966	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S30	2016	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S31	1781	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S32	1128	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S33	2190	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S34	1244	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S35	1580	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S36	2503	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S37	1239	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S38	1333	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17
S39	428	0.00000	1.00000	4.44	3.01	2.39	2.03	1.79	1.60	1.37	1.20	1.06	0.86	0.73	0.59	0.41	0.17

Table E-6: 25-Year Expected Value Weighted Rainfall Intensities (inch/hour)

Basin ID	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	10 min	15 min	20 min	25 min	30 min	40 min	50 min	60 min	90 min	120 min	180 min	360 min	1440 min
S1	2134	0.95734	0.04266	5.92	3.77	2.78	2.24	1.94	1.67	1.48	1.32	1.21	1.05	0.95	0.81	0.63	0.29
S2	1841	0.97669	0.02331	5.96	3.79	2.79	2.25	1.94	1.67	1.48	1.32	1.21	1.05	0.95	0.82	0.64	0.29
S3	2861	0.98360	0.01640	5.97	3.80	2.80	2.25	1.94	1.68	1.49	1.33	1.22	1.06	0.96	0.82	0.64	0.29
S4	1472	0.84026	0.15974	5.69	3.65	2.71	2.19	1.90	1.64	1.45	1.29	1.18	1.01	0.91	0.78	0.60	0.27
S5	918	0.84780	0.15221	5.71	3.65	2.71	2.20	1.90	1.64	1.45	1.29	1.18	1.02	0.91	0.78	0.60	0.27
S6	1312	0.60328	0.39672	5.24	3.39	2.55	2.09	1.82	1.58	1.39	1.23	1.11	0.95	0.84	0.71	0.53	0.24
S7	1965	0.92267	0.07733	5.85	3.74	2.76	2.23	1.92	1.66	1.47	1.31	1.20	1.04	0.94	0.80	0.62	0.28
S8	2269	0.44815	0.55185	4.94	3.22	2.45	2.03	1.76	1.55	1.35	1.19	1.07	0.90	0.79	0.66	0.49	0.22
S9	1827	0.70069	0.29931	5.43	3.49	2.62	2.13	1.85	1.61	1.41	1.26	1.14	0.97	0.87	0.74	0.56	0.25
S10	934	0.05226	0.94774	4.18	2.79	2.20	1.86	1.63	1.45	1.25	1.10	0.96	0.79	0.67	0.55	0.38	0.16
S11	1487	0.99977	0.00023	6.00	3.82	2.81	2.26	1.95	1.68	1.49	1.33	1.22	1.06	0.96	0.83	0.64	0.29
S12	2370	0.84579	0.15422	5.70	3.65	2.71	2.19	1.90	1.64	1.45	1.29	1.18	1.02	0.91	0.78	0.60	0.27
S13	2224	0.26353	0.73647	4.59	3.02	2.33	1.95	1.70	1.50	1.30	1.15	1.02	0.85	0.74	0.61	0.44	0.19
S14	1572	0.24208	0.75792	4.54	2.99	2.32	1.94	1.70	1.50	1.30	1.14	1.02	0.84	0.73	0.60	0.43	0.19
S15	2311	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S16	3204	0.51730	0.48270	5.07	3.29	2.50	2.05	1.79	1.56	1.37	1.21	1.09	0.92	0.81	0.68	0.51	0.23
S17	1188	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S18	1028	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S19.1	2673	0.16898	0.83102	4.40	2.91	2.27	1.91	1.67	1.48	1.28	1.13	1.00	0.82	0.71	0.58	0.41	0.18
S19.2	686	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S19	3358	0.13450	0.86550	4.34	2.88	2.25	1.89	1.66	1.47	1.27	1.12	0.99	0.81	0.70	0.57	0.40	0.17
S20	1914	0.95461	0.04539	5.91	3.77	2.78	2.24	1.93	1.67	1.48	1.32	1.21	1.05	0.95	0.81	0.63	0.29
S21	1774	0.53053	0.46948	5.10	3.31	2.51	2.06	1.79	1.57	1.37	1.22	1.09	0.93	0.82	0.69	0.51	0.23
S22	3743	0.15175	0.84825	4.37	2.89	2.26	1.90	1.67	1.48	1.27	1.12	0.99	0.82	0.70	0.58	0.41	0.17
S23	1584	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S24	1873	0.13705	0.86295	4.34	2.88	2.25	1.89	1.66	1.47	1.27	1.12	0.99	0.81	0.70	0.57	0.40	0.17
S25	2350	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S26	1006	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S27	1562	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S28	1066	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S29	966	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S30	2016	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S31	1781	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S32	1128	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S33	2190	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S34	1244	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S35	1580	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S36	2503	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S37	1239	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S38	1333	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15
S39	428	0.00000	1.00000	4.08	2.73	2.16	1.83	1.61	1.44	1.23	1.09	0.95	0.77	0.66	0.53	0.37	0.15

Table E-7: 10-Year Expected Value Weighted Rainfall Intensities (inch/hour)

Basin ID	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	10 min	15 min	20 min	25 min	30 min	40 min	50 min	60 min	90 min	120 min	180 min	360 min	1440 min
S1	2134	0.95734	0.04266	4.73	3.04	2.07	1.79	1.54	1.35	1.18	1.06	0.98	0.84	0.77	0.66	0.51	0.23
S2	1841	0.97669	0.02331	4.76	3.06	2.08	1.79	1.54	1.36	1.19	1.07	0.99	0.84	0.77	0.66	0.52	0.24
S3	2861	0.98360	0.01640	4.77	3.06	2.08	1.79	1.55	1.36	1.19	1.07	0.99	0.85	0.78	0.67	0.52	0.24
S4	1472	0.84026	0.15974	4.53	2.93	2.03	1.75	1.51	1.33	1.16	1.04	0.96	0.81	0.74	0.63	0.49	0.22
S5	918	0.84780	0.15221	4.54	2.94	2.03	1.75	1.51	1.33	1.16	1.04	0.96	0.82	0.74	0.63	0.49	0.22
S6	1312	0.60328	0.39672	4.13	2.71	1.94	1.67	1.45	1.29	1.11	0.99	0.91	0.76	0.68	0.58	0.44	0.19
S7	1965	0.92267	0.07733	4.67	3.01	2.06	1.77	1.53	1.35	1.17	1.05	0.97	0.83	0.76	0.65	0.51	0.23
S8	2269	0.44815	0.55185	3.87	2.57	1.88	1.61	1.41	1.26	1.08	0.96	0.87	0.73	0.64	0.54	0.40	0.18
S9	1827	0.70069	0.29931	4.30	2.80	1.98	1.70	1.47	1.31	1.13	1.01	0.93	0.78	0.71	0.60	0.46	0.20
S10	934	0.05226	0.94774	3.21	2.21	1.74	1.48	1.30	1.19	1.00	0.88	0.79	0.64	0.55	0.45	0.31	0.13
S11	1487	0.99977	0.00023	4.80	3.08	2.09	1.80	1.55	1.36	1.19	1.07	0.99	0.85	0.78	0.67	0.52	0.24
S12	2370	0.84579	0.15422	4.54	2.94	2.03	1.75	1.51	1.33	1.16	1.04	0.96	0.82	0.74	0.63	0.49	0.22
S13	2224	0.26353	0.73647	3.56	2.40	1.82	1.55	1.36	1.23	1.04	0.93	0.84	0.69	0.60	0.50	0.36	0.16
S14	1572	0.24208	0.75792	3.53	2.38	1.81	1.54	1.35	1.22	1.04	0.92	0.83	0.68	0.59	0.49	0.36	0.15
S15	2311	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S16	3204	0.51730	0.48270	3.99	2.63	1.91	1.64	1.42	1.27	1.09	0.98	0.89	0.74	0.66	0.56	0.42	0.18
S17	1188	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S18	1028	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S19.1	2673	0.16898	0.83102	3.40	2.31	1.78	1.52	1.33	1.21	1.02	0.91	0.82	0.67	0.58	0.48	0.34	0.15
S19.2	686	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S19	3358	0.13450	0.86550	3.35	2.28	1.77	1.51	1.32	1.20	1.02	0.90	0.81	0.66	0.57	0.47	0.33	0.14
S20	1914	0.95461	0.04539	4.72	3.04	2.07	1.78	1.54	1.35	1.18	1.06	0.98	0.84	0.77	0.66	0.51	0.23
S21	1774	0.53053	0.46948	4.01	2.65	1.92	1.64	1.43	1.28	1.10	0.98	0.89	0.75	0.66	0.56	0.42	0.19
S22	3743	0.15175	0.84825	3.37	2.30	1.77	1.51	1.33	1.21	1.02	0.90	0.81	0.66	0.57	0.47	0.34	0.14
S23	1584	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S24	1873	0.13705	0.86295	3.35	2.28	1.77	1.51	1.32	1.20	1.02	0.90	0.81	0.66	0.57	0.47	0.33	0.14
S25	2350	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S26	1006	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S27	1562	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S28	1066	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S29	966	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S30	2016	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S31	1781	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S32	1128	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S33	2190	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S34	1244	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S35	1580	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S36	2503	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S37	1239	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S38	1333	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13
S39	428	0.00000	1.00000	3.12	2.16	1.72	1.46	1.29	1.18	0.99	0.87	0.78	0.63	0.53	0.44	0.30	0.13

Table E-8: 5-Year Expected Value Weighted Rainfall Intensities (inch/hour)

Basin ID	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	10 min	15 min	20 min	25 min	30 min	40 min	50 min	60 min	90 min	120 min	180 min	360 min	1440 min
S1	2134	0.95734	0.04266	3.31	2.13	1.45	1.25	1.08	0.95	0.83	0.74	0.69	0.59	0.54	0.46	0.36	0.16
S2	1841	0.97669	0.02331	3.33	2.14	1.46	1.25	1.08	0.95	0.83	0.75	0.69	0.59	0.54	0.47	0.36	0.16
S3	2861	0.98360	0.01640	3.34	2.15	1.46	1.26	1.08	0.95	0.83	0.75	0.69	0.59	0.54	0.47	0.36	0.17
S4	1472	0.84026	0.15974	3.17	2.05	1.42	1.22	1.06	0.93	0.81	0.73	0.67	0.57	0.52	0.44	0.34	0.15
S5	918	0.84780	0.15221	3.18	2.06	1.42	1.22	1.06	0.93	0.81	0.73	0.67	0.57	0.52	0.44	0.34	0.15
S6	1312	0.60328	0.39672	2.89	1.90	1.36	1.17	1.01	0.90	0.78	0.69	0.63	0.53	0.48	0.40	0.30	0.14
S7	1965	0.92267	0.07733	3.27	2.11	1.44	1.24	1.07	0.94	0.82	0.74	0.68	0.58	0.53	0.46	0.35	0.16
S8	2269	0.44815	0.55185	2.71	1.80	1.32	1.13	0.98	0.88	0.76	0.67	0.61	0.51	0.45	0.38	0.28	0.12
S9	1827	0.70069	0.29931	3.01	1.96	1.39	1.19	1.03	0.91	0.79	0.71	0.65	0.55	0.49	0.42	0.32	0.14
S10	934	0.05226	0.94774	2.25	1.54	1.22	1.04	0.91	0.83	0.70	0.62	0.55	0.45	0.38	0.31	0.22	0.09
S11	1487	0.99977	0.00023	3.36	2.16	1.46	1.26	1.08	0.95	0.83	0.75	0.69	0.59	0.55	0.47	0.37	0.17
S12	2370	0.84579	0.15422	3.18	2.06	1.42	1.22	1.06	0.93	0.81	0.73	0.67	0.57	0.52	0.44	0.34	0.15
S13	2224	0.26353	0.73647	2.49	1.68	1.27	1.09	0.95	0.86	0.73	0.65	0.58	0.48	0.42	0.35	0.25	0.11
S14	1572	0.24208	0.75792	2.47	1.67	1.27	1.08	0.95	0.86	0.73	0.64	0.58	0.48	0.42	0.35	0.25	0.11
S15	2311	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S16	3204	0.51730	0.48270	2.79	1.84	1.34	1.15	1.00	0.89	0.77	0.68	0.62	0.52	0.46	0.39	0.29	0.13
S17	1188	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S18	1028	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S19.1	2673	0.16898	0.83102	2.38	1.62	1.25	1.06	0.93	0.85	0.72	0.63	0.57	0.47	0.40	0.33	0.24	0.10
S19.2	686	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S19	3358	0.13450	0.86550	2.34	1.60	1.24	1.05	0.93	0.84	0.71	0.63	0.57	0.46	0.40	0.33	0.23	0.10
S20	1914	0.95461	0.04539	3.31	2.13	1.45	1.25	1.08	0.95	0.83	0.74	0.69	0.59	0.54	0.46	0.36	0.16
S21	1774	0.53053	0.46948	2.81	1.85	1.34	1.15	1.00	0.89	0.77	0.68	0.62	0.52	0.47	0.39	0.29	0.13
S22	3743	0.15175	0.84825	2.36	1.61	1.24	1.06	0.93	0.85	0.71	0.63	0.57	0.46	0.40	0.33	0.23	0.10
S23	1584	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S24	1873	0.13705	0.86295	2.35	1.60	1.24	1.06	0.93	0.84	0.71	0.63	0.57	0.46	0.40	0.33	0.23	0.10
S25	2350	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S26	1006	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S27	1562	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S28	1066	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S29	966	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S30	2016	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S31	1781	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S32	1128	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S33	2190	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S34	1244	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S35	1580	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S36	2503	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S37	1239	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S38	1333	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09
S39	428	0.00000	1.00000	2.18	1.51	1.20	1.02	0.90	0.83	0.69	0.61	0.55	0.44	0.37	0.31	0.21	0.09

Table E-9: 2-Year Expected Value Weighted Rainfall Intensities (inch/hour)

Basin ID	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	10 min	15 min	20 min	25 min	30 min	40 min	50 min	60 min	90 min	120 min	180 min	360 min	1440 min
S1	2134	0.95734	0.04266	2.16	1.44	1.06	0.84	0.71	0.63	0.54	0.49	0.46	0.40	0.36	0.31	0.24	0.11
S2	1841	0.97669	0.02331	2.17	1.45	1.07	0.84	0.71	0.63	0.54	0.49	0.46	0.40	0.36	0.31	0.24	0.11
S3	2861	0.98360	0.01640	2.17	1.45	1.07	0.84	0.71	0.63	0.54	0.49	0.46	0.40	0.36	0.31	0.24	0.11
S4	1472	0.84026	0.15974	2.09	1.39	1.03	0.83	0.70	0.62	0.54	0.48	0.45	0.39	0.35	0.30	0.23	0.10
S5	918	0.84780	0.15221	2.09	1.40	1.04	0.83	0.70	0.62	0.54	0.48	0.45	0.39	0.35	0.30	0.23	0.10
S6	1312	0.60328	0.39672	1.95	1.30	0.98	0.79	0.68	0.60	0.52	0.46	0.43	0.36	0.32	0.27	0.20	0.09
S7	1965	0.92267	0.07733	2.14	1.43	1.05	0.84	0.71	0.62	0.54	0.48	0.45	0.40	0.36	0.30	0.24	0.11
S8	2269	0.44815	0.55185	1.86	1.24	0.95	0.77	0.67	0.59	0.51	0.45	0.41	0.35	0.30	0.25	0.19	0.08
S9	1827	0.70069	0.29931	2.01	1.34	1.00	0.81	0.69	0.61	0.53	0.47	0.43	0.37	0.33	0.28	0.21	0.10
S10	934	0.05226	0.94774	1.63	1.08	0.86	0.72	0.63	0.56	0.48	0.43	0.38	0.31	0.26	0.21	0.15	0.06
S11	1487	0.99977	0.00023	2.18	1.46	1.07	0.85	0.71	0.63	0.55	0.49	0.46	0.41	0.36	0.31	0.24	0.11
S12	2370	0.84579	0.15422	2.09	1.40	1.04	0.83	0.70	0.62	0.54	0.48	0.45	0.39	0.35	0.30	0.23	0.10
S13	2224	0.26353	0.73647	1.75	1.17	0.90	0.75	0.65	0.58	0.50	0.44	0.39	0.33	0.28	0.24	0.17	0.07
S14	1572	0.24208	0.75792	1.74	1.16	0.90	0.75	0.65	0.58	0.50	0.44	0.39	0.33	0.28	0.23	0.17	0.07
S15	2311	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S16	3204	0.51730	0.48270	1.90	1.27	0.96	0.78	0.67	0.60	0.51	0.46	0.42	0.36	0.31	0.26	0.19	0.09
S17	1188	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S18	1028	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S19.1	2673	0.16898	0.83102	1.70	1.13	0.88	0.74	0.64	0.57	0.49	0.43	0.39	0.32	0.27	0.23	0.16	0.07
S19.2	686	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S19	3358	0.13450	0.86550	1.68	1.12	0.87	0.73	0.64	0.57	0.49	0.43	0.38	0.32	0.27	0.22	0.16	0.07
S20	1914	0.95461	0.04539	2.16	1.44	1.06	0.84	0.71	0.63	0.54	0.49	0.46	0.40	0.36	0.31	0.24	0.11
S21	1774	0.53053	0.46948	1.91	1.27	0.96	0.79	0.67	0.60	0.52	0.46	0.42	0.36	0.31	0.26	0.20	0.09
S22	3743	0.15175	0.84825	1.69	1.12	0.88	0.74	0.64	0.57	0.49	0.43	0.38	0.32	0.27	0.22	0.16	0.07
S23	1584	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S24	1873	0.13705	0.86295	1.68	1.12	0.87	0.73	0.64	0.57	0.49	0.43	0.38	0.32	0.27	0.22	0.16	0.07
S25	2350	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S26	1006	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S27	1562	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S28	1066	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S29	966	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S30	2016	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S31	1781	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S32	1128	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S33	2190	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S34	1244	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S35	1580	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S36	2503	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S37	1239	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S38	1333	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06
S39	428	0.00000	1.00000	1.60	1.06	0.84	0.72	0.63	0.56	0.48	0.42	0.37	0.30	0.26	0.21	0.14	0.06

Table E-11: 100-Year Expected Value Weighted Rainfall Depth (inch)

Basin ID	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	30 min	60 min	3 hr	6 hr	24 hr	2 Day	3 Day	4 Day	5 Day
S1	2134	0.95734	0.04266	0.62	1.03	1.49	3.03	4.72	8.58	12.54	14.27	15.07	15.89
S2	1841	0.97669	0.02331	0.62	1.04	1.50	3.05	4.76	8.66	12.66	14.41	15.22	16.05
S3	2861	0.98360	0.01640	0.63	1.04	1.50	3.06	4.78	8.69	12.71	14.46	15.27	16.11
S4	1472	0.84026	0.15974	0.59	1.01	1.45	2.90	4.47	8.08	11.80	13.42	14.18	14.94
S5	918	0.84780	0.15221	0.59	1.01	1.46	2.91	4.49	8.11	11.84	13.48	14.24	15.00
S6	1312	0.60328	0.39672	0.54	0.97	1.37	2.63	3.98	7.07	10.29	11.70	12.37	13.01
S7	1965	0.92267	0.07733	0.61	1.03	1.48	2.99	4.65	8.43	12.32	14.02	14.81	15.61
S8	2269	0.44815	0.55185	0.50	0.95	1.31	2.45	3.65	6.40	9.31	10.58	11.18	11.74
S9	1827	0.70069	0.29931	0.56	0.99	1.40	2.74	4.18	7.48	10.91	12.41	13.11	13.80
S10	934	0.05226	0.94774	0.41	0.88	1.17	2.00	2.82	4.71	6.79	7.71	8.15	8.52
S11	1487	0.99977	0.00023	0.63	1.04	1.51	3.08	4.81	8.76	12.81	14.58	15.40	16.24
S12	2370	0.84579	0.15422	0.59	1.01	1.45	2.90	4.49	8.10	11.83	13.46	14.22	14.98
S13	2224	0.26353	0.73647	0.46	0.91	1.24	2.24	3.26	5.62	8.13	9.24	9.77	10.24
S14	1572	0.24208	0.75792	0.46	0.91	1.24	2.22	3.22	5.52	8.00	9.09	9.60	10.06
S15	2311	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S16	3204	0.51730	0.48270	0.52	0.96	1.34	2.53	3.80	6.70	9.74	11.08	11.71	12.31
S17	1188	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S18	1028	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S19.1	2673	0.16898	0.83102	0.44	0.90	1.21	2.13	3.06	5.21	7.53	8.56	9.04	9.47
S19.2	686	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S19	3358	0.13450	0.86550	0.43	0.89	1.20	2.09	2.99	5.06	7.31	8.31	8.78	9.19
S20	1914	0.95461	0.04539	0.62	1.03	1.49	3.03	4.71	8.57	12.52	14.25	15.05	15.87
S21	1774	0.53053	0.46948	0.52	0.96	1.34	2.54	3.82	6.76	9.83	11.18	11.81	12.41
S22	3743	0.15175	0.84825	0.43	0.90	1.20	2.11	3.03	5.14	7.42	8.43	8.91	9.33
S23	1584	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S24	1873	0.13705	0.86295	0.43	0.89	1.20	2.10	3.00	5.08	7.33	8.32	8.80	9.21
S25	2350	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S26	1006	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S27	1562	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S28	1066	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S29	966	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S30	2016	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S31	1781	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S32	1128	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S33	2190	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S34	1244	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S35	1580	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S36	2503	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S37	1239	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S38	1333	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09
S39	428	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09

Table E-12: 50-Year Expected Value Weighted Rainfall Depth (inch)

Basin ID	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	30 min	60 min	3 hr	6 hr	24 hr	2 Day	3 Day	4 Day	5 Day
S1	2134	0.95734	0.04266	0.55	0.94	1.37	2.78	4.32	7.84	0.00	0.00	0.00	0.00
S2	1841	0.97669	0.02331	0.56	0.95	1.37	2.80	4.36	7.92	0.00	0.00	0.00	0.00
S3	2861	0.98360	0.01640	0.56	0.95	1.37	2.80	4.37	7.95	0.00	0.00	0.00	0.00
S4	1472	0.84026	0.15974	0.53	0.93	1.33	2.65	4.09	7.39	0.00	0.00	0.00	0.00
S5	918	0.84780	0.15221	0.53	0.93	1.33	2.66	4.11	7.42	0.00	0.00	0.00	0.00
S6	1312	0.60328	0.39672	0.48	0.89	1.25	2.41	3.63	6.47	0.00	0.00	0.00	0.00
S7	1965	0.92267	0.07733	0.55	0.94	1.36	2.74	4.25	7.71	0.00	0.00	0.00	0.00
S8	2269	0.44815	0.55185	0.46	0.87	1.20	2.25	3.33	5.86	0.00	0.00	0.00	0.00
S9	1827	0.70069	0.29931	0.50	0.91	1.28	2.51	3.82	6.85	0.00	0.00	0.00	0.00
S10	934	0.05226	0.94774	0.38	0.81	1.08	1.83	2.57	4.32	0.00	0.00	0.00	0.00
S11	1487	0.99977	0.00023	0.56	0.95	1.38	2.82	4.40	8.01	0.00	0.00	0.00	0.00
S12	2370	0.84579	0.15422	0.53	0.93	1.33	2.66	4.10	7.41	0.00	0.00	0.00	0.00
S13	2224	0.26353	0.73647	0.42	0.84	1.14	2.05	2.98	5.15	0.00	0.00	0.00	0.00
S14	1572	0.24208	0.75792	0.42	0.84	1.14	2.03	2.94	5.06	0.00	0.00	0.00	0.00
S15	2311	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S16	3204	0.51730	0.48270	0.47	0.88	1.23	2.32	3.47	6.13	0.00	0.00	0.00	0.00
S17	1188	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S18	1028	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S19.1	2673	0.16898	0.83102	0.40	0.83	1.11	1.96	2.80	4.78	0.00	0.00	0.00	0.00
S19.2	686	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S19	3358	0.13450	0.86550	0.40	0.82	1.10	1.92	2.73	4.64	0.00	0.00	0.00	0.00
S20	1914	0.95461	0.04539	0.55	0.94	1.37	2.77	4.31	7.83	0.00	0.00	0.00	0.00
S21	1774	0.53053	0.46948	0.47	0.88	1.23	2.33	3.49	6.18	0.00	0.00	0.00	0.00
S22	3743	0.15175	0.84825	0.40	0.82	1.11	1.94	2.76	4.71	0.00	0.00	0.00	0.00
S23	1584	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S24	1873	0.13705	0.86295	0.40	0.82	1.10	1.92	2.73	4.65	0.00	0.00	0.00	0.00
S25	2350	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S26	1006	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S27	1562	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S28	1066	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S29	966	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S30	2016	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S31	1781	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S32	1128	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S33	2190	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S34	1244	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S35	1580	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S36	2503	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S37	1239	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S38	1333	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00
S39	428	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12	0.00	0.00	0.00	0.00

Table E-13: 25-Year Expected Value Weighted Rainfall Depth (inch)

Basin ID	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	30 min	60 min	3 hr	6 hr	24 hr	2 Day	3 Day	4 Day	5 Day
S1	2134	0.95734	0.04266	0.49	0.83	1.21	2.44	3.80	6.91	10.05	11.34	11.97	12.70
S2	1841	0.97669	0.02331	0.50	0.84	1.21	2.46	3.83	6.97	10.14	11.45	12.09	12.83
S3	2861	0.98360	0.01640	0.50	0.84	1.22	2.47	3.84	6.99	10.18	11.49	12.13	12.87
S4	1472	0.84026	0.15974	0.47	0.82	1.18	2.34	3.60	6.51	9.46	10.68	11.27	11.94
S5	918	0.84780	0.15221	0.48	0.82	1.18	2.34	3.62	6.54	9.49	10.72	11.32	11.99
S6	1312	0.60328	0.39672	0.44	0.79	1.11	2.13	3.21	5.71	8.26	9.33	9.85	10.41
S7	1965	0.92267	0.07733	0.49	0.83	1.20	2.41	3.74	6.79	9.87	11.14	11.77	12.48
S8	2269	0.44815	0.55185	0.41	0.77	1.07	1.99	2.95	5.19	7.48	8.46	8.91	9.40
S9	1827	0.70069	0.29931	0.45	0.80	1.14	2.21	3.37	6.04	8.75	9.89	10.43	11.04
S10	934	0.05226	0.94774	0.35	0.73	0.96	1.64	2.29	3.86	5.49	6.22	6.53	6.84
S11	1487	0.99977	0.00023	0.50	0.84	1.22	2.48	3.87	7.05	10.26	11.58	12.23	12.98
S12	2370	0.84579	0.15422	0.48	0.82	1.18	2.34	3.61	6.53	9.48	10.71	11.30	11.98
S13	2224	0.26353	0.73647	0.38	0.75	1.02	1.82	2.64	4.57	6.56	7.41	7.80	8.21
S14	1572	0.24208	0.75792	0.38	0.75	1.02	1.81	2.60	4.50	6.45	7.29	7.67	8.07
S15	2311	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S16	3204	0.51730	0.48270	0.42	0.78	1.09	2.05	3.06	5.42	7.83	8.85	9.33	9.85
S17	1188	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S18	1028	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S19.1	2673	0.16898	0.83102	0.37	0.74	1.00	1.74	2.48	4.25	6.08	6.88	7.24	7.60
S19.2	686	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S19	3358	0.13450	0.86550	0.36	0.74	0.99	1.71	2.42	4.13	5.91	6.68	7.03	7.37
S20	1914	0.95461	0.04539	0.49	0.83	1.21	2.44	3.79	6.90	10.03	11.32	11.96	12.69
S21	1774	0.53053	0.46948	0.42	0.78	1.09	2.06	3.09	5.47	7.90	8.92	9.41	9.94
S22	3743	0.15175	0.84825	0.36	0.74	0.99	1.73	2.45	4.19	5.99	6.78	7.13	7.48
S23	1584	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S24	1873	0.13705	0.86295	0.36	0.74	0.99	1.71	2.43	4.14	5.92	6.70	7.04	7.39
S25	2350	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S26	1006	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S27	1562	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S28	1066	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S29	966	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S30	2016	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S31	1781	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S32	1128	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S33	2190	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S34	1244	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S35	1580	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S36	2503	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S37	1239	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S38	1333	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50
S39	428	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50

Table E-14: 10-Year Expected Value Weighted Rainfall Depth (inch)

Basin ID	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	30 min	60 min	3 hr	6 hr	24 hr	2 Day	3 Day	4 Day	5 Day
S1	2134	0.95734	0.04266	0.39	0.68	0.98	1.98	3.08	5.60	8.08	9.04	9.55	10.18
S2	1841	0.97669	0.02331	0.40	0.68	0.99	1.99	3.11	5.65	8.16	9.13	9.64	10.28
S3	2861	0.98360	0.01640	0.40	0.68	0.99	2.00	3.12	5.67	8.18	9.16	9.67	10.32
S4	1472	0.84026	0.15974	0.38	0.67	0.96	1.90	2.93	5.28	7.61	8.52	8.99	9.57
S5	918	0.84780	0.15221	0.38	0.67	0.96	1.90	2.94	5.30	7.64	8.55	9.03	9.61
S6	1312	0.60328	0.39672	0.34	0.64	0.91	1.73	2.61	4.65	6.66	7.47	7.87	8.35
S7	1965	0.92267	0.07733	0.39	0.67	0.97	1.96	3.04	5.50	7.94	8.89	9.38	10.00
S8	2269	0.44815	0.55185	0.32	0.63	0.87	1.62	2.41	4.23	6.04	6.78	7.13	7.55
S9	1827	0.70069	0.29931	0.36	0.65	0.93	1.80	2.74	4.91	7.05	7.90	8.33	8.85
S10	934	0.05226	0.94774	0.27	0.59	0.79	1.35	1.88	3.17	4.45	5.02	5.26	5.50
S11	1487	0.99977	0.00023	0.40	0.68	0.99	2.01	3.14	5.71	8.25	9.23	9.75	10.40
S12	2370	0.84579	0.15422	0.38	0.67	0.96	1.90	2.93	5.30	7.63	8.55	9.02	9.60
S13	2224	0.26353	0.73647	0.30	0.61	0.84	1.49	2.16	3.74	5.30	5.96	6.26	6.59
S14	1572	0.24208	0.75792	0.29	0.61	0.83	1.48	2.13	3.68	5.21	5.86	6.16	6.48
S15	2311	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S16	3204	0.51730	0.48270	0.33	0.64	0.89	1.67	2.50	4.42	6.31	7.09	7.46	7.90
S17	1188	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S18	1028	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S19.1	2673	0.16898	0.83102	0.28	0.61	0.82	1.43	2.03	3.48	4.92	5.54	5.81	6.10
S19.2	686	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S19	3358	0.13450	0.86550	0.28	0.60	0.81	1.40	1.99	3.39	4.78	5.39	5.65	5.93
S20	1914	0.95461	0.04539	0.39	0.68	0.98	1.98	3.08	5.59	8.07	9.03	9.53	10.17
S21	1774	0.53053	0.46948	0.33	0.64	0.89	1.68	2.52	4.45	6.37	7.15	7.52	7.97
S22	3743	0.15175	0.84825	0.28	0.60	0.81	1.42	2.01	3.44	4.85	5.46	5.73	6.01
S23	1584	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S24	1873	0.13705	0.86295	0.28	0.60	0.81	1.41	1.99	3.40	4.79	5.40	5.66	5.94
S25	2350	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S26	1006	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S27	1562	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S28	1066	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S29	966	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S30	2016	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S31	1781	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S32	1128	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S33	2190	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S34	1244	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S35	1580	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S36	2503	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S37	1239	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S38	1333	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23
S39	428	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23

Table E-15: 5-Year Expected Value Weighted Rainfall Depth (inch)

Basin ID	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	30 min	60 min	3 hr	6 hr	24 hr	2 Day	3 Day	4 Day	5 Day
S1	2134	0.95734	0.04266	0.28	0.47	0.69	1.39	2.16	3.92	5.66	6.33	6.68	7.13
S2	1841	0.97669	0.02331	0.28	0.47	0.69	1.40	2.18	3.95	5.71	6.39	6.75	7.20
S3	2861	0.98360	0.01640	0.28	0.47	0.69	1.40	2.18	3.97	5.73	6.41	6.77	7.22
S4	1472	0.84026	0.15974	0.26	0.47	0.67	1.33	2.05	3.70	5.33	5.96	6.29	6.70
S5	918	0.84780	0.15221	0.27	0.47	0.67	1.33	2.06	3.71	5.35	5.99	6.32	6.73
S6	1312	0.60328	0.39672	0.24	0.45	0.63	1.21	1.83	3.25	4.66	5.23	5.51	5.84
S7	1965	0.92267	0.07733	0.27	0.47	0.68	1.37	2.13	3.85	5.56	6.22	6.57	7.00
S8	2269	0.44815	0.55185	0.23	0.44	0.61	1.14	1.68	2.96	4.23	4.75	4.99	5.28
S9	1827	0.70069	0.29931	0.25	0.46	0.65	1.26	1.92	3.44	4.93	5.53	5.83	6.20
S10	934	0.05226	0.94774	0.19	0.42	0.55	0.94	1.32	2.22	3.11	3.52	3.68	3.85
S11	1487	0.99977	0.00023	0.28	0.48	0.69	1.41	2.20	4.00	5.77	6.46	6.82	7.28
S12	2370	0.84579	0.15422	0.26	0.47	0.67	1.33	2.05	3.71	5.34	5.98	6.31	6.72
S13	2224	0.26353	0.73647	0.21	0.43	0.58	1.05	1.51	2.62	3.71	4.17	4.38	4.61
S14	1572	0.24208	0.75792	0.21	0.43	0.58	1.04	1.49	2.58	3.65	4.11	4.31	4.54
S15	2311	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S16	3204	0.51730	0.48270	0.23	0.45	0.62	1.17	1.75	3.09	4.42	4.96	5.22	5.53
S17	1188	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S18	1028	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S19.1	2673	0.16898	0.83102										
S19.2	686	0.00000	1.00000										
S19	3358	0.13450	0.86550	0.20	0.42	0.57	0.98	1.39	2.37	3.35	3.77	3.95	4.15
S20	1914	0.95461	0.04539	0.28	0.47	0.69	1.38	2.16	3.91	5.65	6.32	6.67	7.12
S21	1774	0.53053	0.46948	0.23	0.45	0.62	1.18	1.76	3.12	4.46	5.00	5.27	5.58
S22	3743	0.15175	0.84825	0.20	0.42	0.57	0.99	1.41	2.41	3.39	3.82	4.01	4.21
S23	1584	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S24	1873	0.13705	0.86295	0.20	0.42	0.57	0.98	1.39	2.38	3.35	3.78	3.96	4.16
S25	2350	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S26	1006	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S27	1562	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S28	1066	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S29	966	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S30	2016	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S31	1781	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S32	1128	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S33	2190	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S34	1244	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S35	1580	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S36	2503	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S37	1239	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S38	1333	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66
S39	428	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66

Table E-16: 2-Year Expected Value Weighted Rainfall Depth (inch)

Basin ID	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	30 min	60 min	3 hr	6 hr	24 hr	2 Day	3 Day	4 Day	5 Day
S1	2134	0.95734	0.04266	0.18	0.31	0.46	0.92	1.44	2.61	3.65	4.04	4.26	4.56
S2	1841	0.97669	0.02331	0.18	0.31	0.46	0.93	1.45	2.64	3.69	4.08	4.30	4.61
S3	2861	0.98360	0.01640	0.18	0.31	0.46	0.93	1.45	2.65	3.70	4.09	4.32	4.62
S4	1472	0.84026	0.15974	0.17	0.31	0.45	0.89	1.37	2.47	3.44	3.81	4.02	4.29
S5	918	0.84780	0.15221	0.17	0.31	0.45	0.89	1.37	2.48	3.46	3.82	4.03	4.31
S6	1312	0.60328	0.39672	0.16	0.30	0.43	0.81	1.22	2.18	3.02	3.34	3.52	3.75
S7	1965	0.92267	0.07733	0.18	0.31	0.45	0.91	1.42	2.57	3.59	3.97	4.19	4.48
S8	2269	0.44815	0.55185	0.15	0.30	0.41	0.76	1.13	1.99	2.74	3.04	3.19	3.39
S9	1827	0.70069	0.29931	0.17	0.30	0.43	0.84	1.28	2.30	3.19	3.53	3.72	3.97
S10	934	0.05226	0.94774	0.14	0.28	0.38	0.64	0.89	1.50	2.03	2.26	2.36	2.47
S11	1487	0.99977	0.00023	0.18	0.31	0.46	0.94	1.46	2.67	3.73	4.12	4.35	4.66
S12	2370	0.84579	0.15422	0.17	0.31	0.45	0.89	1.37	2.48	3.45	3.82	4.03	4.31
S13	2224	0.26353	0.73647	0.15	0.29	0.39	0.71	1.01	1.76	2.41	2.67	2.80	2.96
S14	1572	0.24208	0.75792	0.14	0.29	0.39	0.70	1.00	1.73	2.37	2.63	2.76	2.91
S15	2311	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S16	3204	0.51730	0.48270	0.16	0.30	0.42	0.79	1.17	2.07	2.86	3.17	3.34	3.55
S17	1188	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S18	1028	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S19.1	2673	0.16898	0.83102	0.14	0.29	0.39	0.68	0.96	1.64	2.24	2.49	2.60	2.74
S19.2	686	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S19	3358	0.13450	0.86550	0.14	0.28	0.38	0.67	0.94	1.60	2.17	2.42	2.53	2.66
S20	1914	0.95461	0.04539	0.18	0.31	0.46	0.92	1.44	2.61	3.65	4.03	4.26	4.56
S21	1774	0.53053	0.46948	0.16	0.30	0.42	0.79	1.18	2.09	2.89	3.20	3.36	3.58
S22	3743	0.15175	0.84825	0.14	0.29	0.38	0.67	0.95	1.62	2.20	2.45	2.57	2.70
S23	1584	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S24	1873	0.13705	0.86295	0.14	0.28	0.38	0.67	0.94	1.60	2.18	2.43	2.54	2.67
S25	2350	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S26	1006	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S27	1562	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S28	1066	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S29	966	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S30	2016	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S31	1781	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S32	1128	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S33	2190	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S34	1244	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S35	1580	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S36	2503	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S37	1239	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S38	1333	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35
S39	428	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35

Table E-18: Mountainous Area Ratio for Main Nodes

Node	Basin ID	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	Mtn. Area (ac)	Weighted Mtn. Ratio
101u Total		2134			2043	0.95735
101c Total		3975			3841	0.96631
103 Total		6836			6656	0.97355
104 Total		9226			8670	0.93977
106 Total		12502			11274	0.90178
108 Total		16599			13572	0.81762
113 Total		23614			17698	0.74946
114 Total		25186			18079	0.71780
115 Total		31889			19736	0.61890
118u Total		32917			19736	0.59957
118t Total		13237			3592	0.27139
118c Total		48826			23780	0.48703
119 Total		49512			23780	0.48029
126 Total		50518			23780	0.47072
127 Total		53147			23780	0.44744
132u Total		3797			0	0.00000
132c Total		4924			0	0.00000
133u Total		54113			23780	0.43945
133t Total		7115			0	0.00000
133c Total		61227			23780	0.38839
134u Total		62471			23780	0.38066
134t Total		4083			0	0.00000
134c Total		66554			23780	0.35730
137 Total		67793			23780	0.35077
138 Total		69125			23780	0.34401
139 Total		69553			23780	0.34190

Table E-20: 100-Year Expected Value Weighted Rainfall Intensities for Nodes (inch/hour)

Node	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	10 min	15 min	20 min	25 min	30 min	40 min	50 min	60 min	90 min	120 min	180 min	360 min	1440 min
101u	2134	0.95735	0.04265	7.442	4.562	3.432	2.736	2.323	2.065	1.806	1.530	1.495	1.304	1.173	1.010	0.787	0.357
101c	3975	0.96631	0.03369	7.467	4.574	3.440	2.741	2.327	2.069	1.809	1.532	1.498	1.307	1.177	1.014	0.790	0.359
103	6836	0.97355	0.02645	7.487	4.584	3.447	2.745	2.329	2.071	1.811	1.534	1.500	1.310	1.180	1.017	0.792	0.360
104	9226	0.93977	0.06023	7.394	4.538	3.417	2.726	2.316	2.060	1.800	1.526	1.488	1.297	1.166	1.004	0.781	0.354
106	12502	0.90178	0.09822	7.289	4.486	3.384	2.705	2.301	2.047	1.787	1.517	1.475	1.283	1.152	0.989	0.767	0.348
108	16599	0.81762	0.18238	7.057	4.372	3.310	2.658	2.267	2.018	1.759	1.498	1.444	1.251	1.119	0.957	0.738	0.333
113	23614	0.74946	0.25054	6.869	4.279	3.250	2.620	2.240	1.995	1.737	1.482	1.420	1.225	1.092	0.931	0.714	0.320
114	25186	0.71780	0.28220	6.781	4.236	3.222	2.602	2.227	1.984	1.726	1.475	1.408	1.213	1.079	0.919	0.703	0.315
115	31889	0.61890	0.38110	6.508	4.101	3.135	2.547	2.187	1.950	1.693	1.452	1.373	1.175	1.041	0.882	0.668	0.297
118u	32917	0.59957	0.40043	6.455	4.075	3.118	2.536	2.180	1.944	1.687	1.448	1.366	1.168	1.033	0.875	0.662	0.294
118t	13237	0.27139	0.72861	5.549	3.628	2.829	2.353	2.048	1.832	1.577	1.373	1.248	1.043	0.905	0.750	0.547	0.235
118c	48826	0.48703	0.51297	6.144	3.922	3.019	2.473	2.135	1.906	1.649	1.422	1.325	1.125	0.989	0.832	0.622	0.274
119	49512	0.48029	0.51971	6.126	3.912	3.013	2.469	2.132	1.903	1.647	1.421	1.323	1.122	0.986	0.829	0.620	0.273
126	50518	0.47072	0.52928	6.099	3.899	3.004	2.464	2.128	1.900	1.644	1.418	1.319	1.119	0.983	0.826	0.616	0.271
127	53147	0.44744	0.55256	6.035	3.868	2.984	2.451	2.119	1.892	1.636	1.413	1.311	1.110	0.974	0.817	0.608	0.267
132u	3797	0.00000	1.00000	4.800	3.258	2.590	2.201	1.940	1.740	1.487	1.310	1.150	0.940	0.798	0.647	0.452	0.187
132t	1128	0.00000	1.00000	4.800	3.258	2.590	2.201	1.940	1.740	1.487	1.310	1.150	0.940	0.798	0.647	0.452	0.187
132c	4924	0.00000	1.00000	4.800	3.258	2.590	2.201	1.940	1.740	1.487	1.310	1.150	0.940	0.798	0.647	0.452	0.187
133u	54113	0.43945	0.56055	6.013	3.857	2.977	2.447	2.116	1.889	1.633	1.411	1.308	1.107	0.970	0.814	0.605	0.265
133t	7115	0.00000	1.00000	4.800	3.258	2.590	2.201	1.940	1.740	1.487	1.310	1.150	0.940	0.798	0.647	0.452	0.187
133c	61227	0.38839	0.61161	5.872	3.787	2.932	2.418	2.095	1.872	1.616	1.400	1.290	1.087	0.950	0.794	0.588	0.256
134u	62471	0.38066	0.61934	5.851	3.777	2.925	2.414	2.092	1.869	1.614	1.398	1.287	1.084	0.947	0.791	0.585	0.255
134t	4083	0.00000	1.00000	4.800	3.258	2.590	2.201	1.940	1.740	1.487	1.310	1.150	0.940	0.798	0.647	0.452	0.187
134c	66554	0.35730	0.64270	5.786	3.745	2.905	2.401	2.083	1.861	1.606	1.392	1.279	1.075	0.938	0.782	0.577	0.251
137	67793	0.35077	0.64923	5.768	3.736	2.899	2.397	2.080	1.859	1.604	1.391	1.276	1.073	0.936	0.780	0.574	0.249
138	69125	0.34401	0.65599	5.749	3.727	2.893	2.393	2.078	1.857	1.601	1.389	1.274	1.070	0.933	0.777	0.572	0.248
139	69553	0.34190	0.65810	5.744	3.724	2.891	2.392	2.077	1.856	1.601	1.389	1.273	1.070	0.932	0.777	0.571	0.248

Table E-21: 50-Year Expected Value Weighted Rainfall Intensities for Nodes (inch/hour)

Node	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	10 min	15 min	20 min	25 min	30 min	40 min	50 min	60 min	90 min	120 min	180 min	360 min	1440 min
101u	2134	0.95735	0.04265	6.623	4.044	2.993	2.461	2.087	1.887	1.581	1.420	1.366	1.157	1.027	0.925	0.720	0.327
101c	3975	0.96631	0.03369	6.643	4.054	2.999	2.465	2.089	1.890	1.583	1.422	1.369	1.160	1.030	0.928	0.722	0.328
103	6836	0.97355	0.02645	6.660	4.061	3.003	2.468	2.092	1.892	1.584	1.424	1.372	1.162	1.032	0.931	0.725	0.329
104	9226	0.93977	0.06023	6.583	4.025	2.982	2.453	2.081	1.882	1.577	1.416	1.361	1.151	1.021	0.919	0.714	0.324
106	12502	0.90178	0.09822	6.496	3.984	2.958	2.436	2.069	1.871	1.568	1.408	1.349	1.140	1.010	0.906	0.702	0.318
108	16599	0.81762	0.18238	6.304	3.893	2.905	2.398	2.043	1.845	1.550	1.389	1.322	1.114	0.984	0.877	0.675	0.304
113	23614	0.74946	0.25054	6.149	3.820	2.862	2.367	2.022	1.825	1.534	1.374	1.300	1.093	0.963	0.853	0.653	0.293
114	25186	0.71780	0.28220	6.077	3.785	2.842	2.353	2.012	1.815	1.527	1.366	1.290	1.083	0.953	0.842	0.643	0.288
115	31889	0.61890	0.38110	5.851	3.679	2.780	2.308	1.981	1.786	1.505	1.344	1.258	1.053	0.923	0.808	0.611	0.272
118u	32917	0.59957	0.40043	5.807	3.658	2.768	2.300	1.975	1.780	1.501	1.340	1.252	1.047	0.917	0.801	0.605	0.269
118t	13237	0.27139	0.72861	5.059	3.304	2.561	2.152	1.872	1.681	1.428	1.266	1.147	0.946	0.816	0.687	0.499	0.216
118c	48826	0.48703	0.51297	5.550	3.536	2.697	2.249	1.940	1.746	1.476	1.315	1.216	1.012	0.882	0.762	0.568	0.251
119	49512	0.48029	0.51971	5.535	3.529	2.693	2.246	1.938	1.744	1.475	1.313	1.214	1.010	0.880	0.760	0.566	0.250
126	50518	0.47072	0.52928	5.513	3.519	2.687	2.242	1.935	1.741	1.473	1.311	1.211	1.007	0.877	0.757	0.563	0.248
127	53147	0.44744	0.55256	5.460	3.494	2.672	2.231	1.927	1.734	1.467	1.306	1.203	1.000	0.870	0.748	0.556	0.244
132u	3797	0.00000	1.00000	4.440	3.011	2.390	2.029	1.787	1.600	1.368	1.205	1.060	0.862	0.732	0.593	0.412	0.172
132t	1128	0.00000	1.00000	4.440	3.011	2.390	2.029	1.787	1.600	1.368	1.205	1.060	0.862	0.732	0.593	0.412	0.172
132c	4924	0.00000	1.00000	4.440	3.011	2.390	2.029	1.787	1.600	1.368	1.205	1.060	0.862	0.732	0.593	0.412	0.172
133u	54113	0.43945	0.56055	5.442	3.485	2.667	2.227	1.925	1.732	1.466	1.304	1.201	0.998	0.867	0.746	0.553	0.243
133t	7115	0.00000	1.00000	4.440	3.011	2.390	2.029	1.787	1.600	1.368	1.205	1.060	0.862	0.732	0.593	0.412	0.172
133c	61227	0.38839	0.61161	5.326	3.430	2.635	2.204	1.909	1.717	1.454	1.292	1.184	0.982	0.852	0.728	0.537	0.235
134u	62471	0.38066	0.61934	5.308	3.422	2.630	2.201	1.906	1.714	1.453	1.291	1.182	0.979	0.849	0.725	0.534	0.233
134t	4083	0.00000	1.00000	4.440	3.011	2.390	2.029	1.787	1.600	1.368	1.205	1.060	0.862	0.732	0.593	0.412	0.172
134c	66554	0.35730	0.64270	5.255	3.396	2.615	2.190	1.899	1.707	1.447	1.285	1.174	0.972	0.842	0.717	0.527	0.230
137	67793	0.35077	0.64923	5.240	3.389	2.611	2.187	1.897	1.705	1.446	1.284	1.172	0.970	0.840	0.715	0.524	0.229
138	69125	0.34401	0.65599	5.224	3.382	2.607	2.184	1.895	1.703	1.444	1.282	1.170	0.968	0.838	0.713	0.522	0.227
139	69553	0.34190	0.65810	5.220	3.380	2.606	2.183	1.894	1.703	1.444	1.282	1.169	0.968	0.837	0.712	0.522	0.227

Table E-22: 25-Year Expected Value Weighted Rainfall Intensities for Nodes (inch/hour)

Node	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	10 min	15 min	20 min	25 min	30 min	40 min	50 min	60 min	90 min	120 min	180 min	360 min	1440 min
101u	2134	0.95735	0.04265	5.918	3.773	2.782	2.242	1.936	1.670	1.479	1.320	1.208	1.048	0.947	0.814	0.633	0.288
101c	3975	0.96631	0.03369	5.935	3.783	2.788	2.246	1.939	1.672	1.481	1.322	1.211	1.050	0.950	0.817	0.636	0.289
103	6836	0.97355	0.02645	5.949	3.791	2.793	2.249	1.941	1.674	1.483	1.324	1.213	1.052	0.952	0.819	0.638	0.290
104	9226	0.93977	0.06023	5.884	3.754	2.771	2.234	1.930	1.666	1.475	1.315	1.204	1.043	0.942	0.809	0.628	0.285
106	12502	0.90178	0.09822	5.811	3.713	2.746	2.218	1.917	1.656	1.465	1.306	1.193	1.032	0.930	0.798	0.618	0.280
108	16599	0.81762	0.18238	5.650	3.621	2.692	2.182	1.889	1.636	1.443	1.285	1.171	1.008	0.905	0.773	0.594	0.268
113	23614	0.74946	0.25054	5.519	3.547	2.648	2.153	1.866	1.620	1.426	1.269	1.152	0.989	0.884	0.752	0.575	0.259
114	25186	0.71780	0.28220	5.458	3.512	2.627	2.140	1.855	1.612	1.418	1.261	1.144	0.980	0.875	0.743	0.566	0.254
115	31889	0.61890	0.38110	5.268	3.404	2.563	2.098	1.822	1.589	1.392	1.237	1.117	0.951	0.845	0.714	0.539	0.240
118u	32917	0.59957	0.40043	5.231	3.383	2.551	2.090	1.816	1.584	1.387	1.232	1.112	0.946	0.839	0.708	0.534	0.238
118t	13237	0.27139	0.72861	4.601	3.025	2.339	1.950	1.705	1.505	1.303	1.152	1.023	0.852	0.739	0.611	0.442	0.191
118c	48826	0.48703	0.51297	5.015	3.260	2.478	2.042	1.778	1.557	1.358	1.204	1.081	0.914	0.805	0.674	0.502	0.222
119	49512	0.48029	0.51971	5.002	3.253	2.474	2.039	1.775	1.555	1.356	1.203	1.080	0.912	0.803	0.672	0.500	0.221
126	50518	0.47072	0.52928	4.984	3.242	2.468	2.035	1.772	1.553	1.354	1.200	1.077	0.909	0.800	0.670	0.498	0.219
127	53147	0.44744	0.55256	4.939	3.217	2.453	2.025	1.764	1.547	1.348	1.195	1.071	0.902	0.793	0.663	0.491	0.216
132u	3797	0.00000	1.00000	4.080	2.729	2.163	1.834	1.614	1.440	1.233	1.085	0.950	0.775	0.657	0.530	0.367	0.153
132t	1128	0.00000	1.00000	4.080	2.729	2.163	1.834	1.614	1.440	1.233	1.085	0.950	0.775	0.657	0.530	0.367	0.153
132c	4924	0.00000	1.00000	4.080	2.729	2.163	1.834	1.614	1.440	1.233	1.085	0.950	0.775	0.657	0.530	0.367	0.153
133u	54113	0.43945	0.56055	4.924	3.208	2.447	2.021	1.762	1.545	1.346	1.193	1.069	0.900	0.790	0.660	0.489	0.215
133t	7115	0.00000	1.00000	4.080	2.729	2.163	1.834	1.614	1.440	1.233	1.085	0.950	0.775	0.657	0.530	0.367	0.153
133c	61227	0.38839	0.61161	4.826	3.153	2.414	2.000	1.745	1.533	1.333	1.180	1.055	0.886	0.775	0.645	0.475	0.208
134u	62471	0.38066	0.61934	4.811	3.144	2.409	1.996	1.742	1.531	1.331	1.178	1.053	0.883	0.772	0.643	0.473	0.207
134t	4083	0.00000	1.00000	4.080	2.729	2.163	1.834	1.614	1.440	1.233	1.085	0.950	0.775	0.657	0.530	0.367	0.153
134c	66554	0.35730	0.64270	4.766	3.119	2.394	1.986	1.734	1.526	1.325	1.173	1.046	0.877	0.765	0.636	0.466	0.204
137	67793	0.35077	0.64923	4.753	3.112	2.390	1.984	1.732	1.524	1.323	1.171	1.045	0.875	0.763	0.634	0.464	0.203
138	69125	0.34401	0.65599	4.741	3.104	2.386	1.981	1.730	1.523	1.321	1.169	1.043	0.873	0.761	0.632	0.462	0.202
139	69553	0.34190	0.65810	4.736	3.102	2.384	1.980	1.729	1.522	1.321	1.169	1.042	0.872	0.761	0.631	0.462	0.201

Table E-23: 10-Year Expected Value Weighted Rainfall Intensities for Nodes (inch/hour)

Node	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	10 min	15 min	20 min	25 min	30 min	40 min	50 min	60 min	90 min	120 min	180 min	360 min	1440 min
101u	2134	0.95735	0.04265	4.728	3.041	2.074	1.786	1.539	1.352	1.181	1.062	0.981	0.841	0.770	0.660	0.514	0.233
101c	3975	0.96631	0.03369	4.743	3.049	2.077	1.789	1.541	1.354	1.183	1.063	0.983	0.843	0.772	0.662	0.516	0.234
103	6836	0.97355	0.02645	4.756	3.056	2.080	1.791	1.543	1.355	1.185	1.065	0.984	0.844	0.773	0.664	0.517	0.235
104	9226	0.93977	0.06023	4.699	3.024	2.068	1.780	1.534	1.349	1.178	1.058	0.977	0.837	0.765	0.656	0.510	0.231
106	12502	0.90178	0.09822	4.635	2.989	2.053	1.767	1.524	1.342	1.170	1.051	0.969	0.828	0.756	0.647	0.502	0.227
108	16599	0.81762	0.18238	4.494	2.912	2.022	1.738	1.502	1.327	1.154	1.034	0.952	0.809	0.735	0.627	0.483	0.218
113	23614	0.74946	0.25054	4.379	2.849	1.997	1.715	1.485	1.315	1.140	1.021	0.937	0.794	0.718	0.612	0.468	0.210
114	25186	0.71780	0.28220	4.326	2.820	1.985	1.704	1.476	1.309	1.134	1.014	0.931	0.787	0.711	0.604	0.461	0.206
115	31889	0.61890	0.38110	4.160	2.728	1.948	1.671	1.451	1.291	1.114	0.995	0.910	0.765	0.686	0.581	0.439	0.195
118u	32917	0.59957	0.40043	4.127	2.711	1.941	1.664	1.446	1.288	1.110	0.991	0.906	0.761	0.681	0.577	0.435	0.193
118t	13237	0.27139	0.72861	3.576	2.408	1.819	1.553	1.360	1.229	1.044	0.927	0.837	0.688	0.601	0.500	0.362	0.157
118c	48826	0.48703	0.51297	3.938	2.607	1.899	1.626	1.416	1.268	1.087	0.969	0.882	0.736	0.654	0.550	0.410	0.181
119	49512	0.48029	0.51971	3.927	2.601	1.897	1.624	1.414	1.266	1.086	0.968	0.881	0.734	0.652	0.549	0.408	0.180
126	50518	0.47072	0.52928	3.911	2.592	1.893	1.621	1.412	1.265	1.084	0.966	0.879	0.732	0.650	0.547	0.406	0.179
127	53147	0.44744	0.55256	3.872	2.570	1.884	1.613	1.406	1.261	1.079	0.961	0.874	0.727	0.644	0.541	0.401	0.176
132u	3797	0.00000	1.00000	3.120	2.158	1.718	1.461	1.289	1.180	0.990	0.873	0.780	0.628	0.534	0.437	0.302	0.126
132t	1128	0.00000	1.00000	3.120	2.158	1.718	1.461	1.289	1.180	0.990	0.873	0.780	0.628	0.534	0.437	0.302	0.126
132c	4924	0.00000	1.00000	3.120	2.158	1.718	1.461	1.289	1.180	0.990	0.873	0.780	0.628	0.534	0.437	0.302	0.126
133u	54113	0.43945	0.56055	3.858	2.563	1.881	1.610	1.404	1.259	1.078	0.960	0.872	0.725	0.642	0.539	0.399	0.175
133t	7115	0.00000	1.00000	3.120	2.158	1.718	1.461	1.289	1.180	0.990	0.873	0.780	0.628	0.534	0.437	0.302	0.126
133c	61227	0.38839	0.61161	3.772	2.516	1.862	1.593	1.391	1.250	1.068	0.950	0.862	0.714	0.629	0.527	0.388	0.170
134u	62471	0.38066	0.61934	3.760	2.509	1.860	1.590	1.388	1.249	1.066	0.948	0.860	0.712	0.628	0.525	0.386	0.169
134t	4083	0.00000	1.00000	3.120	2.158	1.718	1.461	1.289	1.180	0.990	0.873	0.780	0.628	0.534	0.437	0.302	0.126
134c	66554	0.35730	0.64270	3.720	2.487	1.851	1.582	1.382	1.244	1.061	0.944	0.855	0.707	0.622	0.520	0.381	0.166
137	67793	0.35077	0.64923	3.709	2.481	1.848	1.580	1.381	1.243	1.060	0.942	0.854	0.706	0.620	0.519	0.379	0.165
138	69125	0.34401	0.65599	3.698	2.475	1.846	1.578	1.379	1.242	1.059	0.941	0.852	0.704	0.619	0.517	0.378	0.165
139	69553	0.34190	0.65810	3.694	2.473	1.845	1.577	1.378	1.242	1.058	0.941	0.852	0.704	0.618	0.516	0.377	0.164

Table E-24: 5-Year Expected Value Weighted Rainfall Intensities for Nodes (inch/hour)

Node	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	10 min	15 min	20 min	25 min	30 min	40 min	50 min	60 min	90 min	120 min	180 min	360 min	1440 min
101u	2134	0.95735	0.04265	3.310	2.128	1.452	1.250	1.077	0.947	0.827	0.743	0.687	0.588	0.539	0.462	0.360	0.163
101c	3975	0.96631	0.03369	3.320	2.134	1.454	1.252	1.079	0.948	0.828	0.744	0.688	0.590	0.540	0.463	0.361	0.164
103	6836	0.97355	0.02645	3.329	2.139	1.456	1.254	1.080	0.949	0.829	0.745	0.689	0.591	0.541	0.465	0.362	0.164
104	9226	0.93977	0.06023	3.289	2.117	1.447	1.246	1.074	0.944	0.825	0.741	0.684	0.586	0.536	0.459	0.357	0.162
106	12502	0.90178	0.09822	3.244	2.093	1.437	1.237	1.067	0.940	0.819	0.735	0.679	0.580	0.529	0.453	0.351	0.159
108	16599	0.81762	0.18238	3.146	2.038	1.416	1.217	1.052	0.929	0.807	0.724	0.666	0.567	0.515	0.439	0.338	0.152
113	23614	0.74946	0.25054	3.065	1.994	1.398	1.201	1.039	0.920	0.798	0.714	0.656	0.556	0.503	0.428	0.327	0.147
114	25186	0.71780	0.28220	3.028	1.974	1.390	1.193	1.033	0.916	0.793	0.710	0.652	0.551	0.497	0.423	0.323	0.144
115	31889	0.61890	0.38110	2.912	1.910	1.364	1.170	1.015	0.904	0.780	0.697	0.637	0.536	0.480	0.407	0.307	0.137
118u	32917	0.59957	0.40043	2.889	1.897	1.359	1.165	1.012	0.902	0.777	0.694	0.634	0.533	0.477	0.404	0.304	0.135
118t	13237	0.27139	0.72861	2.503	1.686	1.273	1.087	0.952	0.860	0.731	0.649	0.586	0.482	0.420	0.350	0.253	0.110
118c	48826	0.48703	0.51297	2.757	1.825	1.329	1.138	0.991	0.887	0.761	0.678	0.618	0.515	0.458	0.385	0.287	0.126
119	49512	0.48029	0.51971	2.749	1.820	1.328	1.137	0.990	0.887	0.760	0.677	0.617	0.514	0.456	0.384	0.286	0.126
126	50518	0.47072	0.52928	2.738	1.814	1.325	1.135	0.988	0.885	0.759	0.676	0.615	0.513	0.455	0.383	0.284	0.125
127	53147	0.44744	0.55256	2.710	1.799	1.319	1.129	0.984	0.882	0.756	0.673	0.612	0.509	0.451	0.379	0.281	0.123
132u	3797	0.00000	1.00000	2.184	1.510	1.203	1.023	0.902	0.826	0.693	0.611	0.546	0.439	0.374	0.306	0.211	0.088
132t	1128	0.00000	1.00000	2.184	1.510	1.203	1.023	0.902	0.826	0.693	0.611	0.546	0.439	0.374	0.306	0.211	0.088
132c	4924	0.00000	1.00000	2.184	1.510	1.203	1.023	0.902	0.826	0.693	0.611	0.546	0.439	0.374	0.306	0.211	0.088
133u	54113	0.43945	0.56055	2.701	1.794	1.317	1.127	0.983	0.881	0.755	0.672	0.611	0.508	0.449	0.377	0.279	0.123
133t	7115	0.00000	1.00000	2.184	1.510	1.203	1.023	0.902	0.826	0.693	0.611	0.546	0.439	0.374	0.306	0.211	0.088
133c	61227	0.38839	0.61161	2.641	1.761	1.304	1.115	0.973	0.875	0.747	0.665	0.603	0.500	0.441	0.369	0.271	0.119
134u	62471	0.38066	0.61934	2.632	1.756	1.302	1.113	0.972	0.874	0.746	0.664	0.602	0.499	0.439	0.368	0.270	0.118
134t	4083	0.00000	1.00000	2.184	1.510	1.203	1.023	0.902	0.826	0.693	0.611	0.546	0.439	0.374	0.306	0.211	0.088
134c	66554	0.35730	0.64270	2.604	1.741	1.296	1.108	0.968	0.871	0.743	0.660	0.599	0.495	0.435	0.364	0.267	0.116
137	67793	0.35077	0.64923	2.597	1.737	1.294	1.106	0.966	0.870	0.742	0.660	0.598	0.494	0.434	0.363	0.266	0.116
138	69125	0.34401	0.65599	2.589	1.732	1.292	1.105	0.965	0.869	0.741	0.659	0.597	0.493	0.433	0.362	0.265	0.115
139	69553	0.34190	0.65810	2.586	1.731	1.292	1.104	0.965	0.869	0.741	0.658	0.596	0.493	0.433	0.362	0.264	0.115

Table E-25: 2-Year Expected Value Weighted Rainfall Intensities for Nodes (inch/hour)

Node	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	10 min	15 min	20 min	25 min	30 min	40 min	50 min	60 min	90 min	120 min	180 min	360 min	1440 min
101u	2134	0.95735	0.04265	2.159	1.439	1.061	0.841	0.710	0.627	0.543	0.487	0.458	0.402	0.359	0.308	0.240	0.109
101c	3975	0.96631	0.03369	2.164	1.443	1.063	0.843	0.711	0.628	0.544	0.488	0.459	0.402	0.360	0.309	0.240	0.109
103	6836	0.97355	0.02645	2.168	1.446	1.065	0.844	0.712	0.628	0.544	0.488	0.460	0.403	0.361	0.310	0.241	0.110
104	9226	0.93977	0.06023	2.149	1.432	1.057	0.839	0.709	0.626	0.542	0.486	0.457	0.400	0.357	0.306	0.238	0.108
106	12502	0.90178	0.09822	2.126	1.418	1.049	0.834	0.706	0.623	0.540	0.483	0.453	0.396	0.353	0.302	0.234	0.106
108	16599	0.81762	0.18238	2.077	1.385	1.029	0.823	0.699	0.617	0.534	0.478	0.445	0.387	0.344	0.294	0.225	0.102
113	23614	0.74946	0.25054	2.037	1.358	1.014	0.814	0.693	0.612	0.530	0.473	0.439	0.380	0.337	0.286	0.218	0.098
114	25186	0.71780	0.28220	2.018	1.346	1.007	0.810	0.690	0.610	0.527	0.471	0.436	0.377	0.333	0.283	0.215	0.097
115	31889	0.61890	0.38110	1.960	1.307	0.984	0.797	0.682	0.603	0.521	0.464	0.427	0.366	0.323	0.273	0.205	0.092
118u	32917	0.59957	0.40043	1.949	1.299	0.980	0.794	0.680	0.602	0.520	0.463	0.426	0.364	0.321	0.271	0.203	0.091
118t	13237	0.27139	0.72861	1.756	1.171	0.905	0.751	0.652	0.579	0.498	0.441	0.396	0.330	0.285	0.236	0.170	0.074
118c	48826	0.48703	0.51297	1.882	1.255	0.954	0.779	0.670	0.594	0.512	0.455	0.415	0.352	0.308	0.259	0.192	0.085
119	49512	0.48029	0.51971	1.878	1.253	0.953	0.778	0.670	0.594	0.512	0.455	0.415	0.352	0.308	0.258	0.191	0.084
126	50518	0.47072	0.52928	1.873	1.249	0.951	0.777	0.669	0.593	0.511	0.454	0.414	0.351	0.307	0.257	0.190	0.084
127	53147	0.44744	0.55256	1.859	1.240	0.945	0.774	0.667	0.591	0.510	0.453	0.412	0.348	0.304	0.255	0.188	0.083
132u	3797	0.00000	1.00000	1.596	1.064	0.843	0.715	0.629	0.560	0.480	0.423	0.371	0.302	0.256	0.208	0.142	0.060
132t	1128	0.00000	1.00000	1.596	1.064	0.843	0.715	0.629	0.560	0.480	0.423	0.371	0.302	0.256	0.208	0.142	0.060
132c	4924	0.00000	1.00000	1.596	1.064	0.843	0.715	0.629	0.560	0.480	0.423	0.371	0.302	0.256	0.208	0.142	0.060
133u	54113	0.43945	0.56055	1.854	1.237	0.943	0.773	0.666	0.591	0.509	0.452	0.411	0.347	0.303	0.254	0.187	0.082
133t	7115	0.00000	1.00000	1.596	1.064	0.843	0.715	0.629	0.560	0.480	0.423	0.371	0.302	0.256	0.208	0.142	0.060
133c	61227	0.38839	0.61161	1.824	1.217	0.932	0.766	0.662	0.587	0.506	0.449	0.406	0.342	0.298	0.248	0.182	0.080
134u	62471	0.38066	0.61934	1.820	1.213	0.930	0.765	0.661	0.587	0.505	0.448	0.406	0.341	0.297	0.248	0.181	0.079
134t	4083	0.00000	1.00000	1.596	1.064	0.843	0.715	0.629	0.560	0.480	0.423	0.371	0.302	0.256	0.208	0.142	0.060
134c	66554	0.35730	0.64270	1.806	1.204	0.925	0.762	0.659	0.585	0.504	0.447	0.404	0.339	0.294	0.245	0.179	0.078
137	67793	0.35077	0.64923	1.802	1.202	0.923	0.761	0.659	0.585	0.503	0.446	0.403	0.338	0.294	0.244	0.178	0.078
138	69125	0.34401	0.65599	1.798	1.199	0.922	0.760	0.658	0.584	0.503	0.446	0.402	0.337	0.293	0.244	0.177	0.077
139	69553	0.34190	0.65810	1.797	1.198	0.921	0.760	0.658	0.584	0.503	0.446	0.402	0.337	0.293	0.244	0.177	0.077

Table E-27: 100-Year Expected Value Weighted Rainfall Depth for Nodes (inch)

Node	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	30 min	60 min	3 hr	6 hr	24 hr	2 Day	3 Day	4 Day	5 Day	Node
101u	2134	0.95735	0.04265	0.62	1.03	1.49	3.03	4.72	8.58	12.54	14.27	15.07	15.89	101u
101c	3975	0.96631	0.03369	0.62	1.03	1.50	3.04	4.74	8.62	12.60	14.34	15.14	15.97	101c
103	6836	0.97355	0.02645	0.62	1.04	1.50	3.05	4.75	8.65	12.64	14.39	15.20	16.02	103
104	9226	0.93977	0.06023	0.62	1.03	1.49	3.01	4.68	8.50	12.43	14.14	14.94	15.75	104
106	12502	0.90178	0.09822	0.61	1.02	1.47	2.97	4.60	8.34	12.19	13.87	14.65	15.44	106
108	16599	0.81762	0.18238	0.59	1.01	1.44	2.87	4.43	7.98	11.65	13.26	14.00	14.75	108
113	23614	0.74946	0.25054	0.57	1.00	1.42	2.79	4.28	7.69	11.22	12.76	13.48	14.20	113
114	25186	0.71780	0.28220	0.57	0.99	1.41	2.76	4.22	7.56	11.02	12.53	13.24	13.94	114
115	31889	0.61890	0.38110	0.54	0.98	1.37	2.65	4.01	7.13	10.39	11.82	12.48	13.13	115
118u	32917	0.59957	0.40043	0.54	0.97	1.37	2.62	3.97	7.05	10.27	11.68	12.34	12.98	118u
118t	13237	0.27139	0.72861	0.46	0.92	1.25	2.25	3.28	5.65	8.18	9.30	9.83	10.30	118t
118c	48826	0.48703	0.51297	0.51	0.95	1.33	2.50	3.73	6.57	9.55	10.86	11.48	12.06	118c
119	49512	0.48029	0.51971	0.51	0.95	1.32	2.49	3.72	6.54	9.51	10.81	11.42	12.00	119
126	50518	0.47072	0.52928	0.51	0.95	1.32	2.48	3.70	6.50	9.45	10.74	11.35	11.93	126
127	53147	0.44744	0.55256	0.50	0.95	1.31	2.45	3.65	6.40	9.30	10.57	11.17	11.74	127
132u	3797	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09	132u
132t	1128	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09	132t
132c	4924	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09	132c
133u	54113	0.43945	0.56055	0.50	0.94	1.31	2.44	3.63	6.37	9.25	10.52	11.11	11.67	133u
133t	7115	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09	133t
133c	61227	0.38839	0.61161	0.49	0.94	1.29	2.38	3.53	6.15	8.93	10.15	10.72	11.26	133c
134u	62471	0.38066	0.61934	0.49	0.93	1.29	2.37	3.51	6.12	8.88	10.09	10.66	11.19	134u
134t	4083	0.00000	1.00000	0.40	0.87	1.15	1.94	2.71	4.49	6.46	7.33	7.75	8.09	134t
134c	66554	0.35730	0.64270	0.48	0.93	1.28	2.35	3.46	6.02	8.73	9.92	10.48	11.00	134c
137	67793	0.35077	0.64923	0.48	0.93	1.28	2.34	3.45	5.99	8.69	9.87	10.43	10.95	137
138	69125	0.34401	0.65599	0.48	0.93	1.27	2.33	3.43	5.96	8.64	9.82	10.38	10.89	138
139	69553	0.34190	0.65810	0.48	0.93	1.27	2.33	3.43	5.95	8.63	9.81	10.37	10.88	139

Table E-28: 50-Year Expected Value Weighted Rainfall Depth for Nodes (inch)

Node	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	30 min	60 min	3 hr	6 hr	24 hr	2 Day	3 Day	4 Day	5 Day	Node
101u	2134	0.95735	0.04265	0.55	0.94	1.37	2.78	4.32	7.84					101u
101c	3975	0.96631	0.03369	0.55	0.94	1.37	2.78	4.33	7.88					101c
103	6836	0.97355	0.02645	0.55	0.95	1.37	2.79	4.35	7.91					103
104	9226	0.93977	0.06023	0.55	0.94	1.36	2.76	4.28	7.78					104
106	12502	0.90178	0.09822	0.54	0.94	1.35	2.72	4.21	7.63					106
108	16599	0.81762	0.18238	0.53	0.92	1.32	2.63	4.05	7.30					108
113	23614	0.74946	0.25054	0.51	0.91	1.30	2.56	3.92	7.04					113
114	25186	0.71780	0.28220	0.51	0.91	1.29	2.53	3.86	6.91					114
115	31889	0.61890	0.38110	0.49	0.89	1.26	2.42	3.66	6.53					115
118u	32917	0.59957	0.40043	0.48	0.89	1.25	2.40	3.63	6.45					118u
118t	13237	0.27139	0.72861	0.42	0.84	1.15	2.06	2.99	5.18					118t
118c	48826	0.48703	0.51297	0.46	0.87	1.22	2.29	3.41	6.01					118c
119	49512	0.48029	0.51971	0.46	0.87	1.21	2.28	3.40	5.99					119
126	50518	0.47072	0.52928	0.46	0.87	1.21	2.27	3.38	5.95					126
127	53147	0.44744	0.55256	0.46	0.87	1.20	2.25	3.33	5.86					127
132u	3797	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12					132u
132t	1128	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12					132t
132c	4924	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12					132c
133u	54113	0.43945	0.56055	0.45	0.87	1.20	2.24	3.32	5.83					133u
133t	7115	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12					133t
133c	61227	0.38839	0.61161	0.44	0.86	1.18	2.18	3.22	5.63					133c
134u	62471	0.38066	0.61934	0.44	0.86	1.18	2.18	3.20	5.60					134u
134t	4083	0.00000	1.00000	0.37	0.80	1.06	1.78	2.47	4.12					134t
134c	66554	0.35730	0.64270	0.44	0.85	1.17	2.15	3.16	5.51					134c
137	67793	0.35077	0.64923	0.44	0.85	1.17	2.14	3.15	5.48					137
138	69125	0.34401	0.65599	0.44	0.85	1.17	2.14	3.13	5.46					138
139	69553	0.34190	0.65810	0.43	0.85	1.17	2.14	3.13	5.45					139

Table E-29: 25-Year Expected Value Weighted Rainfall Depth for Nodes (inch)

Node	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	30 min	60 min	3 hr	6 hr	24 hr	2 Day	3 Day	4 Day	5 Day	Node
101u	2134	0.95735	0.04265	0.49	0.83	1.21	2.44	3.80	6.91	10.05	11.34	11.97	12.70	101u
101c	3975	0.96631	0.03369	0.49	0.84	1.21	2.45	3.81	6.94	10.09	11.39	12.03	12.76	101c
103	6836	0.97355	0.02645	0.50	0.84	1.21	2.46	3.83	6.96	10.13	11.43	12.07	12.81	103
104	9226	0.93977	0.06023	0.49	0.83	1.20	2.43	3.77	6.85	9.96	11.24	11.87	12.59	104
106	12502	0.90178	0.09822	0.48	0.83	1.19	2.39	3.71	6.72	9.77	11.02	11.64	12.34	106
108	16599	0.81762	0.18238	0.47	0.82	1.17	2.32	3.57	6.44	9.34	10.55	11.13	11.80	108
113	23614	0.74946	0.25054	0.46	0.81	1.15	2.26	3.45	6.21	9.00	10.16	10.72	11.36	113
114	25186	0.71780	0.28220	0.45	0.81	1.14	2.23	3.40	6.10	8.84	9.98	10.53	11.15	114
115	31889	0.61890	0.38110	0.44	0.79	1.12	2.14	3.23	5.77	8.34	9.42	9.94	10.51	115
118u	32917	0.59957	0.40043	0.44	0.79	1.11	2.12	3.20	5.70	8.25	9.31	9.82	10.39	118u
118t	13237	0.27139	0.72861	0.38	0.75	1.02	1.83	2.65	4.59	6.60	7.46	7.85	8.26	118t
118c	48826	0.48703	0.51297	0.42	0.78	1.08	2.02	3.01	5.32	7.68	8.68	9.15	9.66	118c
119	49512	0.48029	0.51971	0.42	0.78	1.08	2.02	3.00	5.30	7.65	8.64	9.11	9.61	119
126	50518	0.47072	0.52928	0.42	0.78	1.08	2.01	2.99	5.27	7.60	8.58	9.05	9.55	126
127	53147	0.44744	0.55256	0.41	0.77	1.07	1.99	2.95	5.19	7.48	8.45	8.91	9.40	127
132u	3797	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50	132u
132t	1128	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50	132t
132c	4924	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50	132c
133u	54113	0.43945	0.56055	0.41	0.77	1.07	1.98	2.93	5.16	7.44	8.41	8.86	9.35	133u
133t	7115	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50	133t
133c	61227	0.38839	0.61161	0.40	0.77	1.05	1.94	2.85	4.99	7.18	8.12	8.55	9.02	133c
134u	62471	0.38066	0.61934	0.40	0.77	1.05	1.93	2.84	4.96	7.14	8.07	8.51	8.97	134u
134t	4083	0.00000	1.00000	0.34	0.72	0.95	1.59	2.20	3.68	5.23	5.92	6.22	6.50	134t
134c	66554	0.35730	0.64270	0.40	0.76	1.05	1.91	2.80	4.88	7.03	7.94	8.37	8.82	134c
137	67793	0.35077	0.64923	0.40	0.76	1.04	1.90	2.79	4.86	6.99	7.91	8.33	8.77	137
138	69125	0.34401	0.65599	0.40	0.76	1.04	1.90	2.77	4.84	6.96	7.87	8.29	8.73	138
139	69553	0.34190	0.65810	0.39	0.76	1.04	1.89	2.77	4.83	6.95	7.86	8.27	8.72	139

Table E-30: 10-Year Expected Value Weighted Rainfall Depth for Nodes (inch)

Node	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	30 min	60 min	3 hr	6 hr	24 hr	2 Day	3 Day	4 Day	5 Day	Node
101u	2134	0.95735	0.04265	0.39	0.68	0.98	1.98	3.08	5.60	8.08	9.04	9.55	10.18	101u
101c	3975	0.96631	0.03369	0.40	0.68	0.98	1.99	3.10	5.62	8.11	9.08	9.59	10.23	101c
103	6836	0.97355	0.02645	0.40	0.68	0.98	1.99	3.10	5.64	8.14	9.11	9.62	10.26	103
104	9226	0.93977	0.06023	0.39	0.67	0.98	1.97	3.06	5.55	8.01	8.96	9.46	10.09	104
106	12502	0.90178	0.09822	0.39	0.67	0.97	1.94	3.01	5.45	7.86	8.79	9.28	9.89	106
108	16599	0.81762	0.18238	0.37	0.66	0.95	1.88	2.90	5.22	7.52	8.42	8.89	9.46	108
113	23614	0.74946	0.25054	0.36	0.66	0.94	1.83	2.81	5.04	7.25	8.12	8.56	9.10	113
114	25186	0.71780	0.28220	0.36	0.65	0.93	1.81	2.76	4.95	7.12	7.98	8.41	8.94	114
115	31889	0.61890	0.38110	0.35	0.65	0.91	1.74	2.63	4.69	6.72	7.54	7.94	8.43	115
118u	32917	0.59957	0.40043	0.34	0.64	0.91	1.73	2.61	4.64	6.64	7.45	7.85	8.33	118u
118t	13237	0.27139	0.72861	0.30	0.61	0.84	1.50	2.17	3.76	5.33	5.99	6.30	6.63	118t
118c	48826	0.48703	0.51297	0.33	0.63	0.88	1.65	2.46	4.34	6.19	6.95	7.32	7.75	118c
119	49512	0.48029	0.51971	0.33	0.63	0.88	1.65	2.45	4.32	6.17	6.92	7.29	7.71	119
126	50518	0.47072	0.52928	0.33	0.63	0.88	1.64	2.44	4.29	6.13	6.88	7.24	7.66	126
127	53147	0.44744	0.55256	0.32	0.63	0.87	1.62	2.41	4.23	6.03	6.78	7.13	7.54	127
132u	3797	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23	132u
132t	1128	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23	132t
132c	4924	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23	132c
133u	54113	0.43945	0.56055	0.32	0.63	0.87	1.62	2.39	4.21	6.00	6.74	7.09	7.50	133u
133t	7115	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23	133t
133c	61227	0.38839	0.61161	0.31	0.62	0.86	1.58	2.33	4.07	5.80	6.51	6.85	7.24	133c
134u	62471	0.38066	0.61934	0.31	0.62	0.86	1.58	2.32	4.05	5.77	6.48	6.81	7.20	134u
134t	4083	0.00000	1.00000	0.26	0.59	0.78	1.31	1.81	3.03	4.24	4.79	5.01	5.23	134t
134c	66554	0.35730	0.64270	0.31	0.62	0.86	1.56	2.29	3.99	5.67	6.38	6.70	7.08	134c
137	67793	0.35077	0.64923	0.31	0.62	0.85	1.56	2.28	3.97	5.65	6.35	6.67	7.04	137
138	69125	0.34401	0.65599	0.31	0.62	0.85	1.55	2.27	3.95	5.62	6.32	6.64	7.01	138
139	69553	0.34190	0.65810	0.31	0.62	0.85	1.55	2.26	3.95	5.61	6.31	6.63	7.00	139

Table E-31: 5-Year Expected Value Weighted Rainfall Depth for Nodes (inch)

Node	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	30 min	60 min	3 hr	6 hr	24 hr	2 Day	3 Day	4 Day	5 Day	Node
101u	2134	0.95735	0.04265	0.28	0.47	0.69	1.39	2.16	3.92	5.66	6.33	6.68	7.13	101u
101c	3975	0.96631	0.03369	0.28	0.47	0.69	1.39	2.17	3.93	5.68	6.36	6.71	7.16	101c
103	6836	0.97355	0.02645	0.28	0.47	0.69	1.39	2.17	3.95	5.70	6.38	6.74	7.18	103
104	9226	0.93977	0.06023	0.27	0.47	0.68	1.38	2.14	3.88	5.61	6.27	6.63	7.06	104
106	12502	0.90178	0.09822	0.27	0.47	0.68	1.36	2.11	3.81	5.50	6.16	6.50	6.92	106
108	16599	0.81762	0.18238	0.26	0.46	0.67	1.32	2.03	3.65	5.26	5.89	6.22	6.62	108
113	23614	0.74946	0.25054	0.26	0.46	0.66	1.28	1.96	3.53	5.07	5.68	5.99	6.37	113
114	25186	0.71780	0.28220	0.25	0.46	0.65	1.27	1.94	3.47	4.98	5.58	5.89	6.26	114
115	31889	0.61890	0.38110	0.24	0.45	0.64	1.22	1.84	3.28	4.71	5.28	5.56	5.90	115
118u	32917	0.59957	0.40043	0.24	0.45	0.63	1.21	1.83	3.25	4.65	5.22	5.50	5.83	118u
118t	13237	0.27139	0.72861	0.21	0.43	0.59	1.05	1.52	2.63	3.73	4.20	4.41	4.64	118t
118c	48826	0.48703	0.51297	0.23	0.44	0.62	1.16	1.72	3.03	4.34	4.87	5.12	5.42	118c
119	49512	0.48029	0.51971	0.23	0.44	0.62	1.15	1.71	3.02	4.32	4.85	5.10	5.40	119
126	50518	0.47072	0.52928	0.23	0.44	0.62	1.15	1.71	3.00	4.29	4.82	5.07	5.36	126
127	53147	0.44744	0.55256	0.23	0.44	0.61	1.14	1.68	2.96	4.22	4.74	4.99	5.28	127
132u	3797	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66	132u
132t	1128	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66	132t
132c	4924	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66	132c
133u	54113	0.43945	0.56055	0.23	0.44	0.61	1.13	1.68	2.95	4.20	4.72	4.97	5.25	133u
133t	7115	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66	133t
133c	61227	0.38839	0.61161	0.22	0.44	0.60	1.11	1.63	2.85	4.06	4.56	4.80	5.07	133c
134u	62471	0.38066	0.61934	0.22	0.44	0.60	1.10	1.62	2.835	4.04	4.54	4.77	5.04	134u
134t	4083	0.00000	1.00000	0.18	0.41	0.55	0.92	1.27	2.12	2.97	3.35	3.51	3.66	134t
134c	66554	0.35730	0.64270	0.22	0.44	0.60	1.09	1.60	2.79	3.97	4.46	4.69	4.95	134c
137	67793	0.35077	0.64923	0.22	0.44	0.60	1.09	1.59	2.78	3.95	4.44	4.67	4.93	137
138	69125	0.34401	0.65599	0.22	0.43	0.60	1.09	1.59	2.77	3.93	4.42	4.65	4.91	138
139	69553	0.34190	0.65810	0.22	0.43	0.60	1.08	1.59	2.76	3.93	4.42	4.64	4.90	139

Table E-32: 2-Year Expected Value Weighted Rainfall Depth for Nodes (inch)

Node	Area (ac)	Mtn. Ratio	Non-Mtn. Ratio	5 min	30 min	60 min	3 hr	6 hr	24 hr	2 Day	3 Day	4 Day	5 Day	Node
101u	2134	0.95735	0.04265	0.18	0.31	0.46	0.92	1.44	2.61	3.65	4.04	4.26	4.56	101u
101c	3975	0.96631	0.03369	0.18	0.31	0.46	0.93	1.44	2.63	3.67	4.06	4.28	4.58	101c
103	6836	0.97355	0.02645	0.18	0.31	0.46	0.93	1.45	2.63	3.68	4.07	4.30	4.60	103
104	9226	0.93977	0.06023	0.18	0.31	0.46	0.92	1.43	2.59	3.62	4.00	4.23	4.52	104
106	12502	0.90178	0.09822	0.18	0.31	0.45	0.91	1.40	2.55	3.55	3.93	4.15	4.44	106
108	16599	0.81762	0.18238	0.17	0.31	0.45	0.88	1.35	2.44	3.40	3.76	3.97	4.24	108
113	23614	0.74946	0.25054	0.17	0.31	0.44	0.86	1.31	2.36	3.28	3.63	3.83	4.08	113
114	25186	0.71780	0.28220	0.17	0.31	0.44	0.85	1.29	2.32	3.22	3.57	3.76	4.01	114
115	31889	0.61890	0.38110	0.16	0.30	0.43	0.82	1.23	2.20	3.05	3.37	3.55	3.78	115
118u	32917	0.59957	0.40043	0.16	0.30	0.43	0.81	1.22	2.17	3.01	3.34	3.51	3.74	118u
118t	13237	0.27139	0.72861	0.15	0.29	0.40	0.71	1.02	1.77	2.42	2.69	2.82	2.98	118t
118c	48826	0.48703	0.51297	0.16	0.30	0.42	0.78	1.15	2.04	2.81	3.11	3.27	3.48	118c
119	49512	0.48029	0.51971	0.16	0.30	0.41	0.77	1.15	2.03	2.80	3.10	3.26	3.46	119
126	50518	0.47072	0.52928	0.16	0.30	0.41	0.77	1.14	2.01	2.78	3.08	3.24	3.44	126
127	53147	0.44744	0.55256	0.15	0.30	0.41	0.76	1.13	1.99	2.74	3.04	3.19	3.39	127
132u	3797	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35	132u
132t	1128	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35	132t
132c	4924	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35	132c
133u	54113	0.43945	0.56055	0.15	0.30	0.41	0.76	1.12	1.98	2.72	3.02	3.17	3.37	133u
133t	7115	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35	133t
133c	61227	0.38839	0.61161	0.15	0.29	0.41	0.75	1.09	1.91	2.63	2.92	3.07	3.25	133c
134u	62471	0.38066	0.61934	0.15	0.29	0.41	0.74	1.09	1.90	2.62	2.90	3.05	3.23	134u
134t	4083	0.00000	1.00000	0.13	0.28	0.37	0.62	0.85	1.44	1.93	2.16	2.25	2.35	134t
134c	66554	0.35730	0.64270	0.15	0.29	0.40	0.74	1.07	1.88	2.57	2.86	3.00	3.18	134c
137	67793	0.35077	0.64923	0.15	0.29	0.40	0.73	1.07	1.87	2.56	2.85	2.99	3.16	137
138	69125	0.34401	0.65599	0.15	0.29	0.40	0.73	1.06	1.86	2.55	2.83	2.97	3.15	138
139	69553	0.34190	0.65810	0.15	0.29	0.40	0.73	1.06	1.86	2.55	2.83	2.97	3.14	139

MainNodeID	Total area	Mountain Percentage
101u	2134	0.9573
101c	3975	0.9663
103	6836	0.9735
104	9226	0.9398
106	12502	0.9018
108	16599	0.8176
113	23614	0.7495
114	25186	0.7178
115	31889	0.6189
118u	32917	0.5996
118t	13237	0.2714
118c	48826	0.4870
119	49512	0.4803
126	50518	0.4707
127	53147	0.4474
132u	3797	0.0000
132t	1128	0.0000
132c	4924	0.0000
133u	54113	0.4395
133t	7115	0.0000
133c	61227	0.3884
134u	62471	0.3807
134t	4083	0.0000
134c	66554	0.3573
137	67793	0.3508
138	69125	0.3440
139	69553	0.3419