NPDES Compliance Inspection Manual

Appendix V

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Appendix V –
Rain Zones of the United States

Figure U-1

Rain Zones of the United States

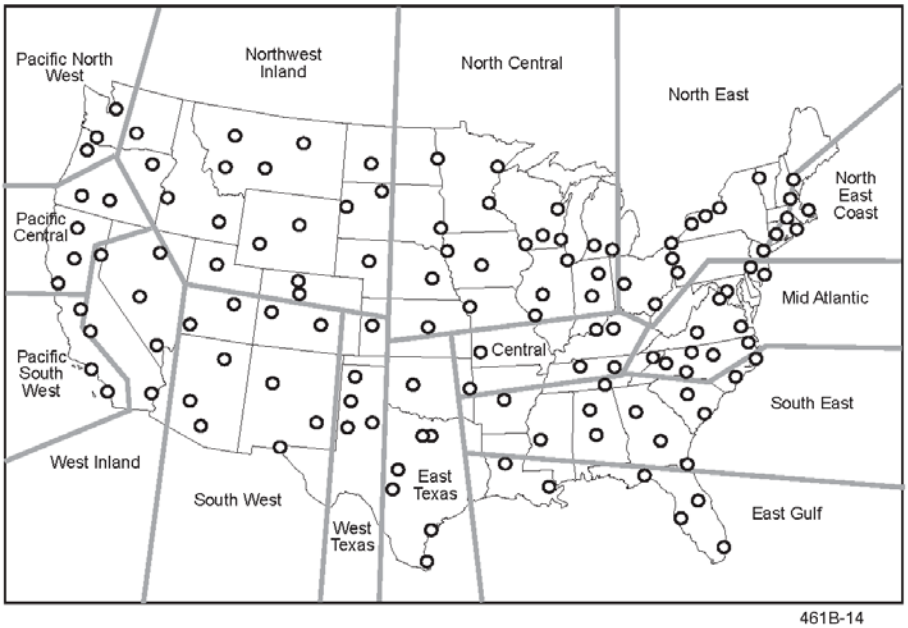

Table U-1

Typical Values of Annual Storm Event Statistics for Rain Zones

Rain Zone	Annual Statistics				Independent Storm Event Statistics							
	No. of Storms		Precip		Duration		Intensity		Volume		DELTA	
	Avg	COV	Avg	COV	Avg	COV	Avg	COV	Avg	COV	Avg	COV
			(in)		(hrs)		(in/hr)		(in)		(hr)	
North East	70	0.13	34.6	0.18	11.2	0.81	0.067	1.23	0.5	0.95	126	0.94
North East-Coastal	63	0.12	41.4	0.21	11.7	0.77	0.071	1.05	0.6	1.03	140	0.87
Midatlantic	62	0.13	39.5	0.18	10.1	0.84	0.082	1.20	0.6	1.01	143	0.97
Central	66	0.14	41.9	0.19	9.2	0.85	0.097	1.09	0.6	1.00	133	0.99
North Central	55	0.16	29.8	0.22	9.5	0.83	0.067	1.20	0.5	1.01	167	1.17
Southeast	65	0.15	49.0	0.20	8.7	0.92	0.122	1.09	0.7	1.10	136	1.03
East Gulf	68	0.17	53.7	0.23	6.4	1.05	0.176	1.03	0.8	1.19	130	1.25
East Texas	41	0.22	31.2	0.29	8.0	0.97	0.137	1.08	0.7	1.16	213	1.26
West Texas	30	0.27	17.3	0.33	7.4	0.98	0.121	1.13	0.5	1.07	302	1.53
Southwest	20	0.30	7.4	0.37	7.6	0.88	0.079	1.16	0.3	0.88	473	1.46
West Inland	14	0.38	4.9	0.43	9.4	0.75	0.055	1.06	0.3	0.87	766	1.54
Pacific South	19	0.36	10.2	0.42	11.6	0.76	0.054	0.76	0.5	0.96	476	2.09
Northwest Inland	31	0.23	11.5	0.29	10.4	0.82	0.057	1.20	0.3	0.83	304	1.43
Pacific Central	32	0.25	18.4	0.33	13.7	0.80	0.048	0.85	0.5	1.05	265	2.00
Pacific Northwest	71	0.15	56.7	0.19	15.9	0.80	0.035	0.73	0.5	1.09	123	1.50

COV - Coefficient of Variation - Standard Deviation / Mean DELTA - Interval between storm midpoints