

OPERATION OF THE IMPERIAL VALLEY WATER AUTHORITY (IVWA) PRECIPITATION NETWORK

Monthly Progress Report for August 2017

September 15, 2017

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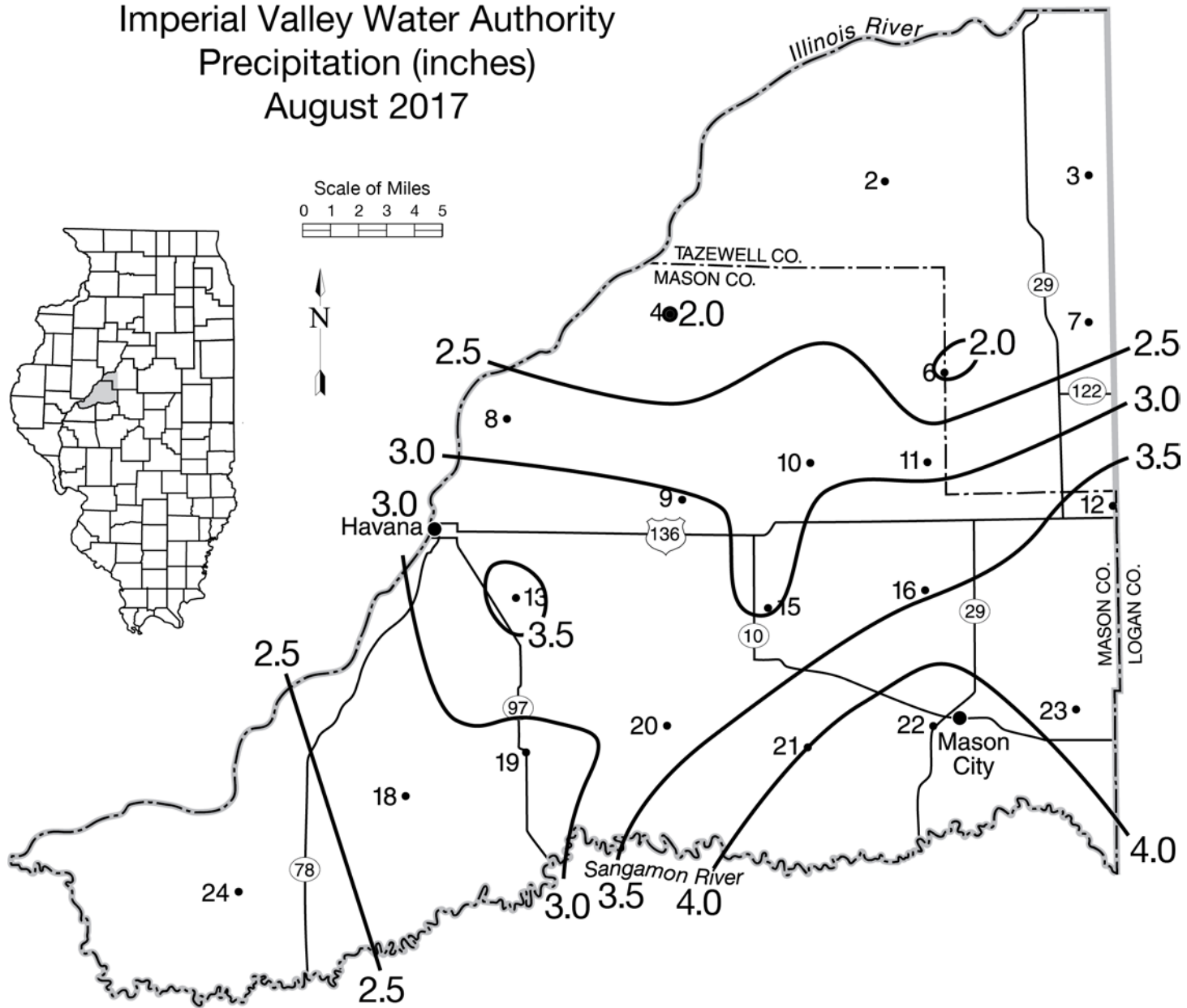
Raingage Network Operations

Dana Grabowski serviced all gages and downloaded the August 2017 digital data on August 31, 2017. During the site visits, Dana weighed collections and emptied and cleaned all of the buckets.

Data Analysis

The average network precipitation for August 2017 was 2.96 inches, 0.19 inches below the 24-year average. The largest monthly gage precipitation totals were in the southeast corner of Mason County. The smallest gage totals were in the north along a line from Sand Ridge State Forest to south of Green Valley, IL. Monthly gage totals varied 2.59 inches across the network, from 1.93 inches (site 6) near south of Green Valley to 4.52 inches (site 22) southwest of Mason City. A significant storm on August 21-22 provided approximately half of the network average monthly rainfall within a 4-hour period. Station 13, southeast of Havana, received 5-year recurrence interval precipitation in hours. Station 22 had a 2-year recurring storm amount in 3 hours, and stations 19, 20, 21, and 24 had 1-year recurring storm amounts in 2, 3, 3, and 2 hours, respectively. The 1981–2010, 30-year average precipitation amounts for August at Havana and Mason City are 3.76 and 3.29 inches, respectively. The August 2017 network average of 2.96 inches is about 94 percent of the 24-year (1993–2016) IVWA August network average of 3.15 inches.

Imperial Valley Water Authority Precipitation (inches) August 2017



August 2017 Daily and Monthly Precipitation Amounts (inches), Imperial Valley Network

DAY	G 2	G 3	G 4	G 6	G 7	G 8	G 9	G 10	G 11	G 12	G 13	G 15	G 16	G 18	G 19	G 20	G 21	G 22	G 23	G 24	
1	----	0.12	----	----	----	0.23	----	----	----	----	----	----	0.15	----	----	----	----	----	----	----	
2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
3	0.05	0.20	0.02	0.04	----	0.07	0.51	0.46	0.60	0.56	0.01	0.42	0.26	0.27	0.01	0.36	1.05	1.07	0.67	0.17	
4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
6	----	----	0.01	0.03	0.01	----	0.01	0.01	0.01	----	0.10	0.03	0.02	0.13	----	----	0.03	0.03	0.03	0.01	
7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
10	0.62	0.17	0.27	0.36	0.27	0.31	0.38	0.52	0.48	0.35	0.39	0.46	0.40	0.37	0.42	0.35	0.43	0.11	0.25	----	
11	0.04	0.03	0.03	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.03	0.01	0.02	----	0.03	0.03	0.01	0.28	0.01	0.32	
12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
17	----	----	----	----	----	----	----	----	0.01	0.02	----	----	----	0.02	----	0.01	0.01	----	----	----	
18	0.65	0.48	0.04	0.03	0.29	0.05	0.03	0.01	0.02	----	0.05	----	----	0.02	----	----	----	0.01	----	----	
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
21	0.31	0.16	0.66	0.25	0.06	0.71	0.75	0.49	0.19	0.08	2.66	0.50	0.60	0.31	0.43	0.55	0.52	0.39	0.27	0.34	
22	0.55	0.74	0.89	1.01	0.91	1.10	1.29	1.43	0.99	1.62	0.45	1.52	1.34	1.56	1.86	1.73	1.79	2.43	2.00	1.16	
23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
27	0.16	0.19	0.07	0.18	0.50	0.06	0.04	----	0.56	0.96	0.01	0.01	0.45	0.12	0.02	0.01	0.18	0.16	0.36	0.08	
28	0.02	----	----	0.01	0.01	0.24	----	0.02	0.04	0.27	----	----	0.19	----	----	0.12	----	0.04	0.05	----	
29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Monthly	2.40	2.09	1.99	1.93	2.07	2.79	3.04	2.96	2.92	3.88	3.70	2.95	3.43	2.80	2.77	3.16	4.02	4.52	3.64	2.08	
Network Average =	2.96		Imperial Valley Network																		