

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

Monthly Progress Report for April 2017

May 11, 2017

Erin Bauer and Dana Grabowski

Phone: (866) 292-7305 (toll-free); E-mail: ebauer@illinois.edu; dgrabows@illinois.edu

Kevin Rennels and Steve Wilson

Phones: (217) 333-8466; 333-0956

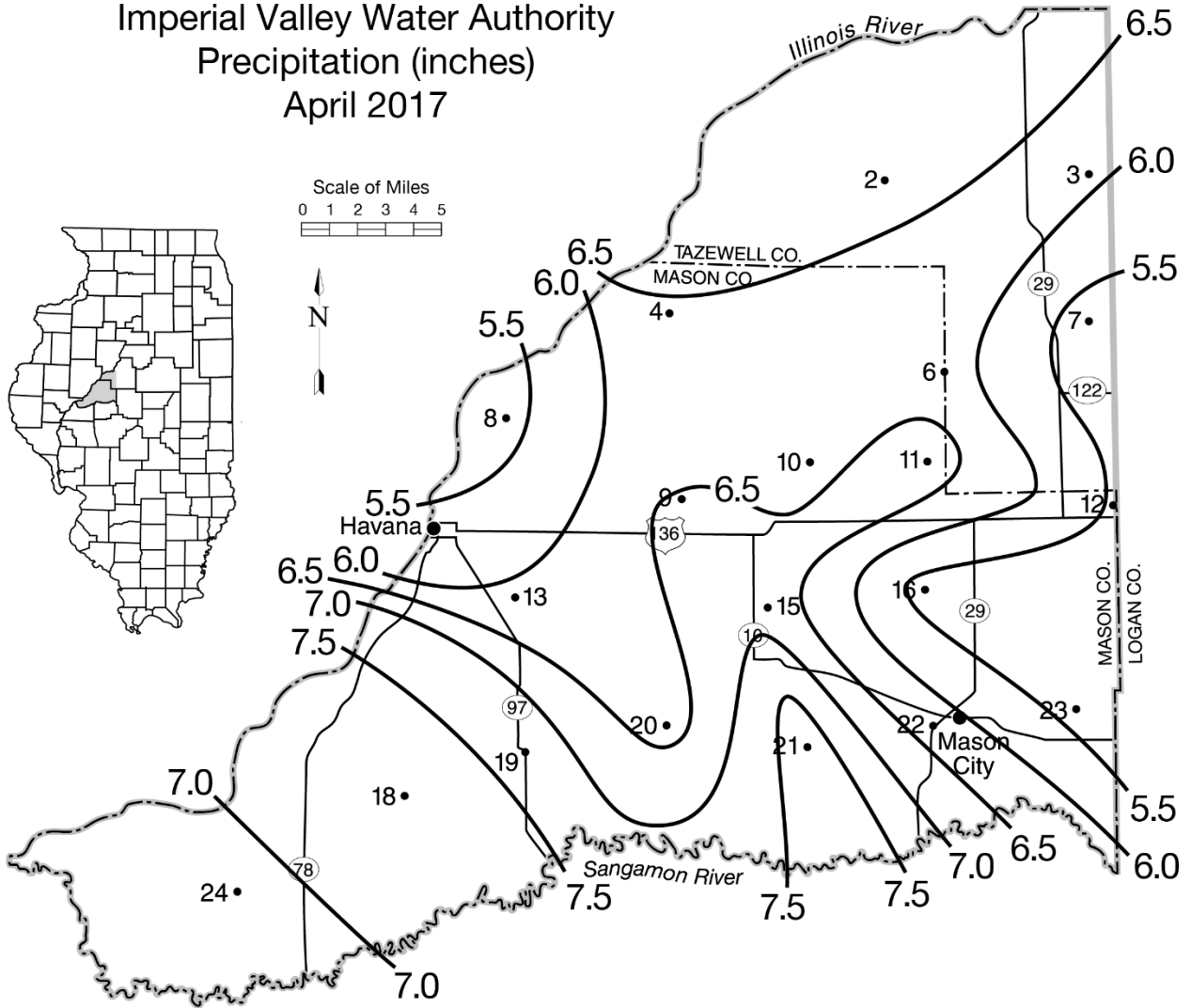
Raingage Network Operations

Dana Grabowski serviced all gages and downloaded the April 2017 digital data on May 3, 2017. During the site visits, Dana weighed collections and emptied and cleaned all of the buckets. The gage and logger at site 13 were replaced and moved about 100 feet west.

Data Analysis

Average network precipitation during April 2017 was 6.35 inches, well above average. Total monthly precipitation amounts were largest along the southern edge of the network. The smallest gage totals were along the eastern edge of the IVWA boundary and north of Havana, IL. Monthly gage totals varied 2.54 inches across the network, from 7.83 inches (site 21) northeast of Revis Hill Prairie Nature Preserve to 5.29 inches (site 7) east of Green Valley. For most of the gages, over half of the monthly precipitation came during the April 29 storm with gage storm totals ranging from 4.20 inches to 2.96 inches over a 40-hour period. The 1981–2010, 30-year average precipitation amounts for April at Havana and Mason City are 3.67 and 3.61 inches, respectively. The April 2017 network average of 6.35 inches is about 184 percent of the 24-year (1993-2016) IVWA April network average of 3.43 inches.

Imperial Valley Water Authority Precipitation (inches) April 2017



April 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	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
3	0.33	0.28	0.37	0.28	0.31	0.33	0.41	0.29	0.24	0.25	0.20	0.31	0.26	0.37	0.38	0.32	0.29	0.42	0.24	0.33
4	0.08	----	0.13	0.06	----	0.16	0.18	0.12	0.11	0.06	0.12	0.14	0.13	0.16	0.16	0.11	0.10	----	0.07	0.14
5	0.94	1.16	0.93	0.57	1.09	0.75	0.93	0.86	1.02	1.15	0.90	1.00	1.02	1.03	0.94	0.85	1.23	1.07	1.03	0.98
6	----	----	----	----	----	----	----	----	----	----	----	----	----	0.03	0.04	0.01	0.03	----	----	0.02
7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10	0.10	0.08	0.09	0.12	----	0.09	0.12	0.07	0.09	----	0.09	0.09	0.11	0.17	0.14	0.17	0.14	0.03	0.03	0.14
11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
14	0.16	0.08	0.33	0.05	----	0.01	0.15	0.22	0.05	0.04	0.13	0.14	0.02	0.19	0.21	0.04	0.03	0.36	----	0.14
15	0.01	0.02	----	0.05	----	----	0.01	----	0.04	----	0.01	----	0.01	----	0.02	----	0.01	----	0.04	----
16	0.29	0.26	0.28	0.35	0.09	0.34	0.22	0.22	0.28	0.28	0.27	0.37	0.19	0.59	0.44	0.27	0.28	0.38	0.32	0.33
17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
20	0.01	----	----	----	----	0.01	----	----	----	----	----	0.03	----	0.02	0.04	0.01	0.10	0.02	----	----
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
26	0.38	0.56	0.28	0.26	0.14	0.37	0.33	0.32	0.37	0.17	0.39	0.42	0.31	0.66	0.62	0.38	0.49	0.18	0.22	0.44
27	0.31	0.34	0.36	0.35	0.36	0.29	0.38	0.38	0.37	0.32	0.43	0.35	0.29	0.42	0.42	0.35	0.42	0.42	0.33	0.37
28	0.06	----	0.06	0.04	----	0.03	0.03	0.04	0.01	0.05	0.05	0.05	0.04	0.11	0.09	0.07	0.05	0.05	0.04	0.10
29	3.39	2.79	3.06	3.21	2.63	2.42	3.11	2.97	3.31	2.56	2.81	3.16	2.26	3.26	3.28	2.86	3.88	2.53	2.67	3.21
30	0.81	0.55	0.56	0.89	0.67	0.54	0.70	0.82	0.87	0.58	0.63	0.75	0.72	0.64	0.65	0.72	0.78	0.75	0.50	0.57
Monthly	6.87	6.12	6.45	6.23	5.29	5.34	6.57	6.31	6.76	5.46	6.03	6.81	5.36	7.65	7.43	6.16	7.83	6.21	5.49	6.77

Network Average = 6.35 Imperial Valley Network