



PRAIRIE RESEARCH INSTITUTE

Illinois State Water Survey
2204 Griffith Drive
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OPERATION OF THE IMPERIAL VALLEY WATER AUTHORITY (IVWA) PRECIPITATION NETWORK

Monthly Progress Report for May 2018

June 14, 2018

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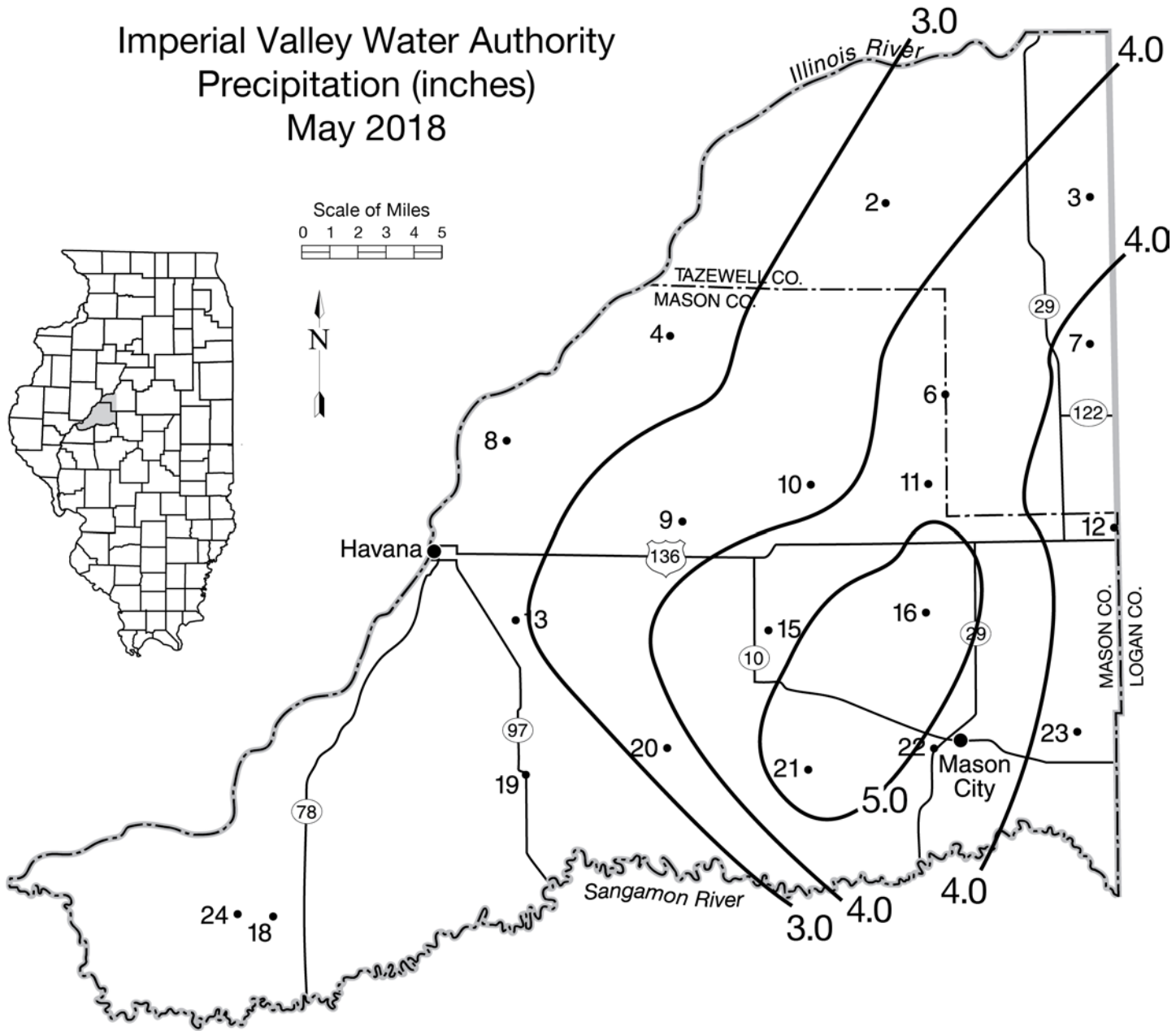
Raingage Network Operations

Dana Grabowski serviced all gages and downloaded the digital data on May 31, 2018. All of the collections were weighed, and the buckets were emptied and cleaned. GPS location and elevation was recorded for the new site of Gage #2. Sites #4, #6, #7, and #12 were calibrated to coefficients of 0.99999, 1.00000, 1.00000, and 1.00000, respectively.

Data Analysis

The average network precipitation for May 2018 was 3.73 inches, which is below the latest 25-year monthly network average of 4.18 inches. The largest monthly gage precipitation totals were in the southeast part of Mason County, northwest of Mason City. The smallest gage totals were in the southwest, central region of the network. Monthly gage totals varied 3.55 inches across the network, from 2.34 inches at site #24, southeast of Snicarte, to 5.89 inches at site #21, southeast of Easton. The 1981–2010 30-year average precipitation amounts for May at Havana and Mason City are 4.79 and 4.07 inches, respectively. The May 2018 network average of 3.73 inches is 89 percent of the 25-year (1993–2017) IVWA May network average of 4.18 inches.

Imperial Valley Water Authority Precipitation (inches) May 2018



May 2018 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	----	0.01	----	----	----	----	0.06	0.15	0.02	----	----	----	----	----	----	----	----	----	----	----
3	0.24	0.30	0.27	0.24	0.24	0.34	0.56	0.51	0.37	0.36	0.59	0.57	0.36	0.73	0.56	0.49	0.45	0.47	0.28	0.87
4	----	----	----	----	----	----	----	----	----	----	----	0.04	----	----	0.01	----	----	----	0.01	----
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
9	0.12	0.08	0.16	0.09	0.12	0.18	0.15	0.10	0.17	0.01	0.25	0.13	0.15	0.26	0.20	0.14	0.08	0.06	----	----
10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
12	0.05	0.08	0.01	0.05	0.02	----	----	----	----	----	----	----	----	0.01	----	----	----	----	----	----
13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
14	----	----	----	----	----	----	----	----	----	----	----	----	0.01	0.06	----	0.01	0.01	0.01	----	0.01
15	0.03	----	0.01	0.01	----	0.19	----	----	----	----	0.01	----	----	----	----	----	----	----	----	----
16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
18	0.01	0.06	0.07	0.01	----	----	----	0.05	0.06	----	----	0.01	0.07	0.04	0.11	----	0.02	0.03	----	----
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
21	1.02	1.50	0.89	1.52	1.16	0.66	1.35	0.80	1.44	0.50	0.81	1.29	1.04	0.82	0.59	1.16	1.15	0.61	0.18	0.69
22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
25	0.25	0.18	0.51	0.56	0.61	0.59	0.70	0.28	1.09	0.85	0.88	1.22	2.11	0.39	0.55	0.35	1.65	1.51	1.50	0.46
26	0.03	0.02	0.01	0.05	0.02	0.03	0.03	0.03	0.03	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.07	0.02	0.08
27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
28	0.32	----	0.02	0.18	0.13	----	----	0.06	----	----	----	----	----	----	----	----	----	----	----	----
29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	0.01	----	----
30	1.53	2.13	0.65	1.72	1.51	0.50	0.74	1.70	1.50	1.52	0.42	1.43	2.00	0.24	0.52	0.95	2.51	2.02	1.35	0.23
31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Monthly	3.60	4.36	2.60	4.43	3.81	2.49	3.59	3.68	4.68	3.25	2.99	4.72	5.77	2.58	2.57	3.13	5.89	4.79	3.34	2.34
Network Average =	3.73		Imperial Valley Network																	