



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 April 2018

May 14, 2018

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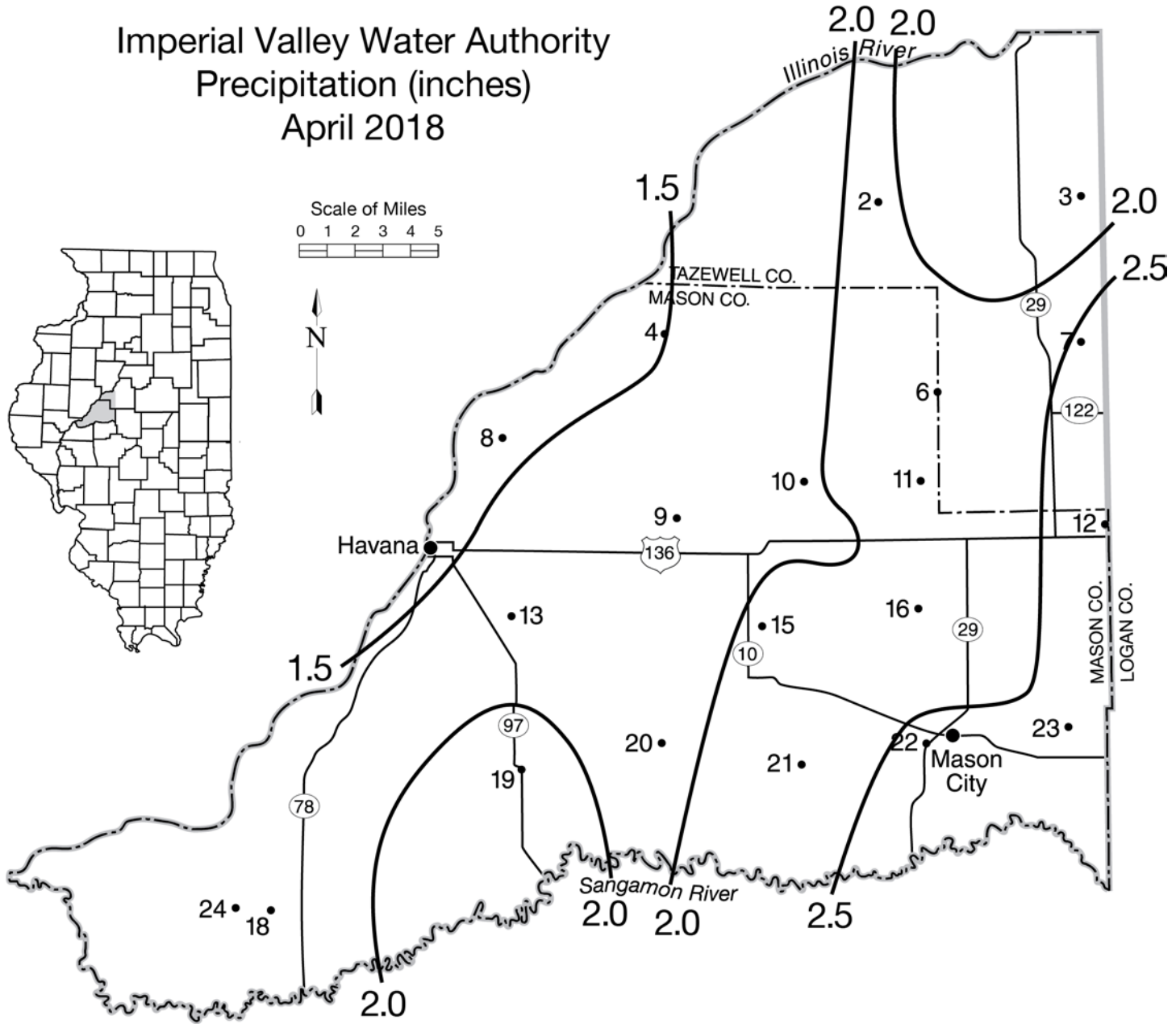
Raingage Network Operations

Dana Grabowski serviced all gages and downloaded the digital data on May 2, 2018. All of the collections were weighed, and the buckets were emptied and cleaned. Evaporation pans were also re-installed for the summer season. Gage #2 was moved northwest about 313 feet to a temporary location. Site #2 and #3 were calibrated to coefficients of 0.99999 and 0.99998, respectively.

Data Analysis

The average network precipitation for April 2018 was 2.03 inches, which is well above the latest 25-year monthly network average of 3.55 inches. The largest monthly gage precipitation totals were in the southeast corner of Mason County. The smallest gage totals were in the northwest boundary of the network. Monthly gage totals varied 1.16 inches across the network, from 1.35 inches at site #8, north of Havana, to 2.65 inches at site #22, east of Mason City. 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 2018 network average of 2.03 inches is 57 percent of the 25-year (1993–2017) IVWA April network average of 3.55 inches.

Imperial Valley Water Authority Precipitation (inches) April 2018



April 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	0.23	0.05	0.15	0.17	0.14	0.04	0.19	0.17	0.10	0.08	0.23	0.15	0.11	0.37	0.32	0.12	0.21	0.17	0.18	0.08
2	0.05	0.02	0.05	0.04	0.01	0.02	0.03	0.01	0.03	0.03	0.03	0.05	0.03	0.00	0.00	0.04	0.03	0.02	0.04	0.15
3	0.21	0.16	0.11	0.18	0.15	0.11	0.14	0.15	0.18	0.19	0.14	0.15	0.12	0.20	0.15	0.12	0.20	0.19	0.27	0.14
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.03	0.03	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.03	0.02	0.00	0.01	0.01	0.00	0.02	0.02	0.01	0.01	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.01	0.00	0.02	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.22	0.10	0.19	0.22	0.13	0.25	0.27	0.29	0.29	0.20	0.32	0.21	0.21	0.29	0.33	0.16	0.28	0.19	0.15	0.25
9	0.07	0.03	0.02	0.03	0.02	0.02	0.07	0.05	0.04	0.03	0.04	0.04	0.01	0.00	0.02	0.08	0.10	0.14	0.03	0.04
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.27	0.47	0.32	0.87	1.14	0.40	0.34	0.54	1.00	1.04	0.39	0.92	1.02	0.53	0.70	0.84	0.69	1.18	1.21	0.46
14	0.82	0.56	0.50	0.74	0.74	0.48	0.46	0.58	0.60	0.68	0.48	0.41	0.44	0.42	0.55	0.45	0.45	0.59	0.57	0.43
15	0.10	0.04	0.05	0.05	0.07	0.00	0.04	0.03	0.00	0.02	0.03	0.02	0.00	0.03	0.03	0.00	0.03	0.01	0.03	0.03
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.03	0.04	0.06	0.08	0.09	0.01	0.03	0.07	0.10	0.09	0.06	0.10	0.12	0.04	0.08	0.08	0.08	0.13	0.11	0.00
24	0.05	0.04	0.01	0.02	0.02	0.02	0.03	0.01	0.03	0.00	0.02	0.01	0.01	0.00	0.01	0.01	0.05	0.02	0.02	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Monthly	2.08	1.54	1.47	2.40	2.51	1.35	1.61	1.90	2.40	2.40	1.77	2.07	2.08	1.89	2.19	1.94	2.15	2.65	2.64	1.58
Network Average =	2.03		Imperial Valley Network																	