



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 2019

May 9, 2019

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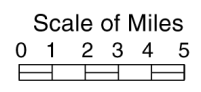
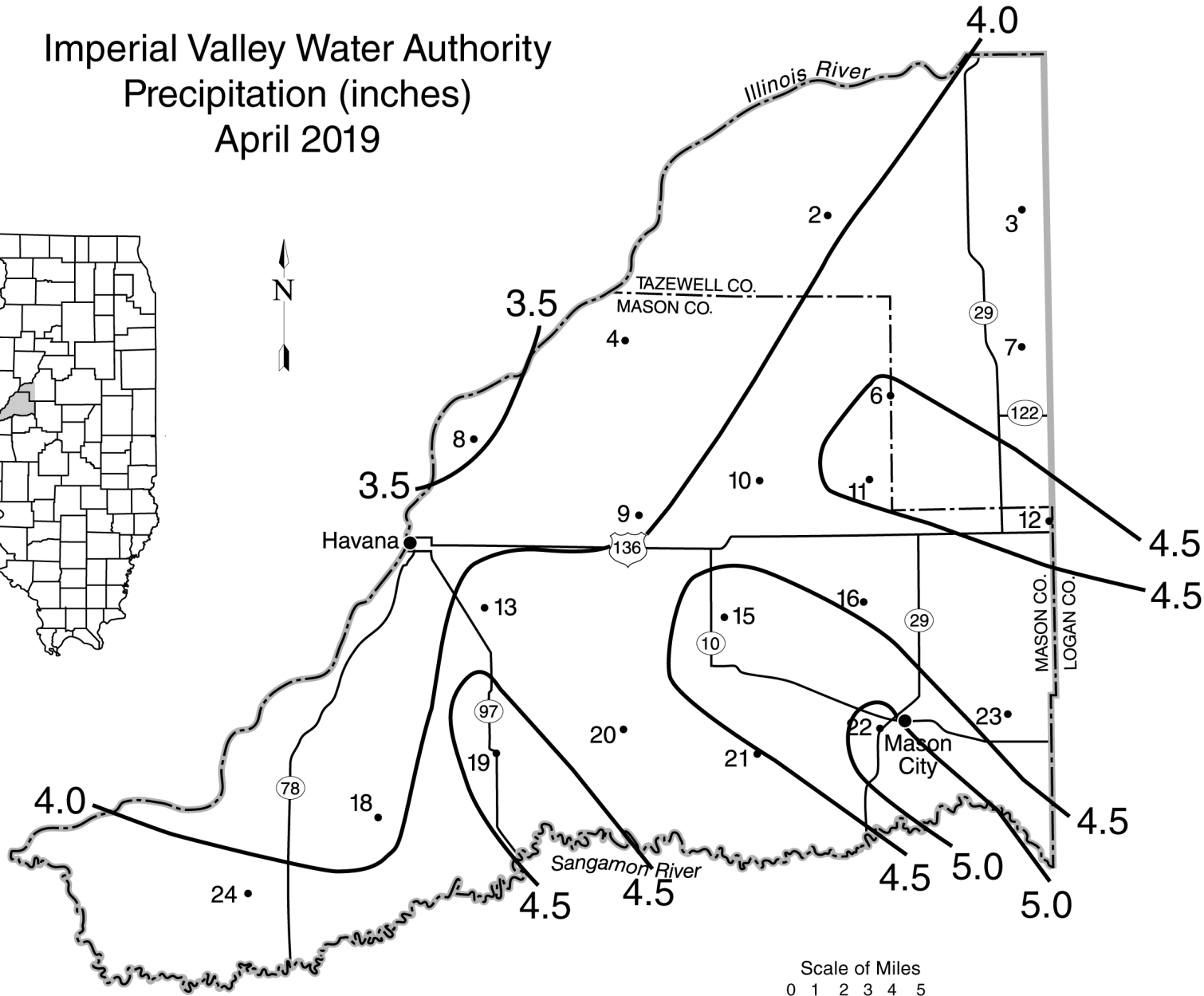
Raingage Network Operations

On May 1, 2019, Dana Grabowski serviced all gages and downloaded the digital data. All of the buckets were weighed and the new tare weight for each bucket was recorded. Sites #6 and #7 were surveyed and calibrated with correlation coefficients of 1.00000 each.

Data Analysis

The average network precipitation for April 2019 was 4.35 inches, which is well above the previous 26-year network average. The largest monthly gage total was in the central to southwestern portion of the network, from Mason City to Easton. Monthly gage totals varied 1.81 inches across the network, from 3.37 inches at site #8, northwest of Topeka, to 5.18 inches at site #22, near 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 2019 network average of 4.35 inches is 125 percent of the 26-year (1993–2017) IVWA April network average of 3.49 inches.

Imperial Valley Water Authority Precipitation (inches) April 2019



April 2019 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	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
4	0.21	0.25	0.27	0.46	0.28	0.24	0.42	0.40	0.35	0.39	0.44	0.45	0.42	0.46	0.51	0.36	0.37	0.40	0.36	0.58
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	0.01	----	0.01	0.01	----
6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
7	0.13	0.10	0.05	0.24	0.19	0.01	0.01	0.07	0.18	0.09	0.02	0.02	0.02	0.03	0.20	0.07	0.12	0.10	0.02	0.09
8	----	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	----	----	----	0.01	0.02	0.03	0.02	0.02	0.02	----	----
9	0.01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	0.02
10	0.12	0.28	----	0.01	----	----	----	----	----	----	----	----	----	----	0.01	----	----	----	----	----
11	0.08	0.12	0.01	0.07	0.01	----	----	0.18	0.16	0.01	----	0.24	0.13	----	0.01	0.03	0.15	0.14	0.02	0.01
12	----	----	----	----	0.01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
13	----	----	----	----	----	----	----	----	----	0.01	----	----	----	----	----	----	0.02	0.04	----	0.01
14	0.70	0.56	0.75	0.85	0.63	0.30	0.76	0.60	0.76	0.77	0.51	0.64	0.43	0.62	0.86	0.66	0.82	0.67	0.94	0.70
15	0.02	0.01	0.01	----	----	0.01	0.01	0.02	0.01	----	0.02	0.01	----	0.01	0.01	0.02	0.04	0.02	0.03	0.01
16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
18	0.63	0.99	0.58	0.67	0.71	0.38	0.73	0.73	1.13	1.08	0.85	1.01	0.99	0.68	0.94	0.77	0.90	1.14	0.66	0.91
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
24	0.01	----	0.02	----	0.04	----	----	----	----	----	----	----	----	----	----	----	----	----	0.01	0.02
25	0.09	0.10	0.07	0.08	0.04	0.02	0.06	0.05	----	----	----	0.05	0.02	0.01	0.03	----	0.04	0.09	----	0.08
26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
27	0.17	0.31	0.06	0.09	0.14	0.06	0.06	0.06	0.01	----	0.02	0.09	0.08	0.08	0.13	0.11	0.15	0.25	0.11	0.13
28	0.02	0.02	----	0.02	----	0.04	0.04	0.02	----	0.01	0.03	0.05	0.05	0.03	0.08	0.05	0.03	0.03	0.04	0.17
29	0.69	0.74	0.69	0.78	0.71	0.49	0.75	0.73	0.81	0.66	0.76	0.78	0.71	0.57	0.80	0.68	0.52	0.57	0.41	1.16
30	1.04	0.92	1.43	1.25	1.51	1.81	0.98	1.14	1.39	1.56	1.64	1.50	1.55	1.16	1.18	1.38	1.31	1.70	1.62	1.28
Monthly	3.92	4.41	3.95	4.53	4.28	3.37	3.83	4.02	4.81	4.58	4.29	4.84	4.41	3.67	4.79	4.16	4.49	5.18	4.23	5.17
Network Average =	4.35			Imperial Valley Network																