



PRAIRIE RESEARCH INSTITUTE

Illinois State Water Survey
2204 Griffith Drive
Champaign, IL 61820

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

Monthly Progress Report for July 2019

August 16, 2019

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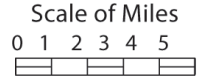
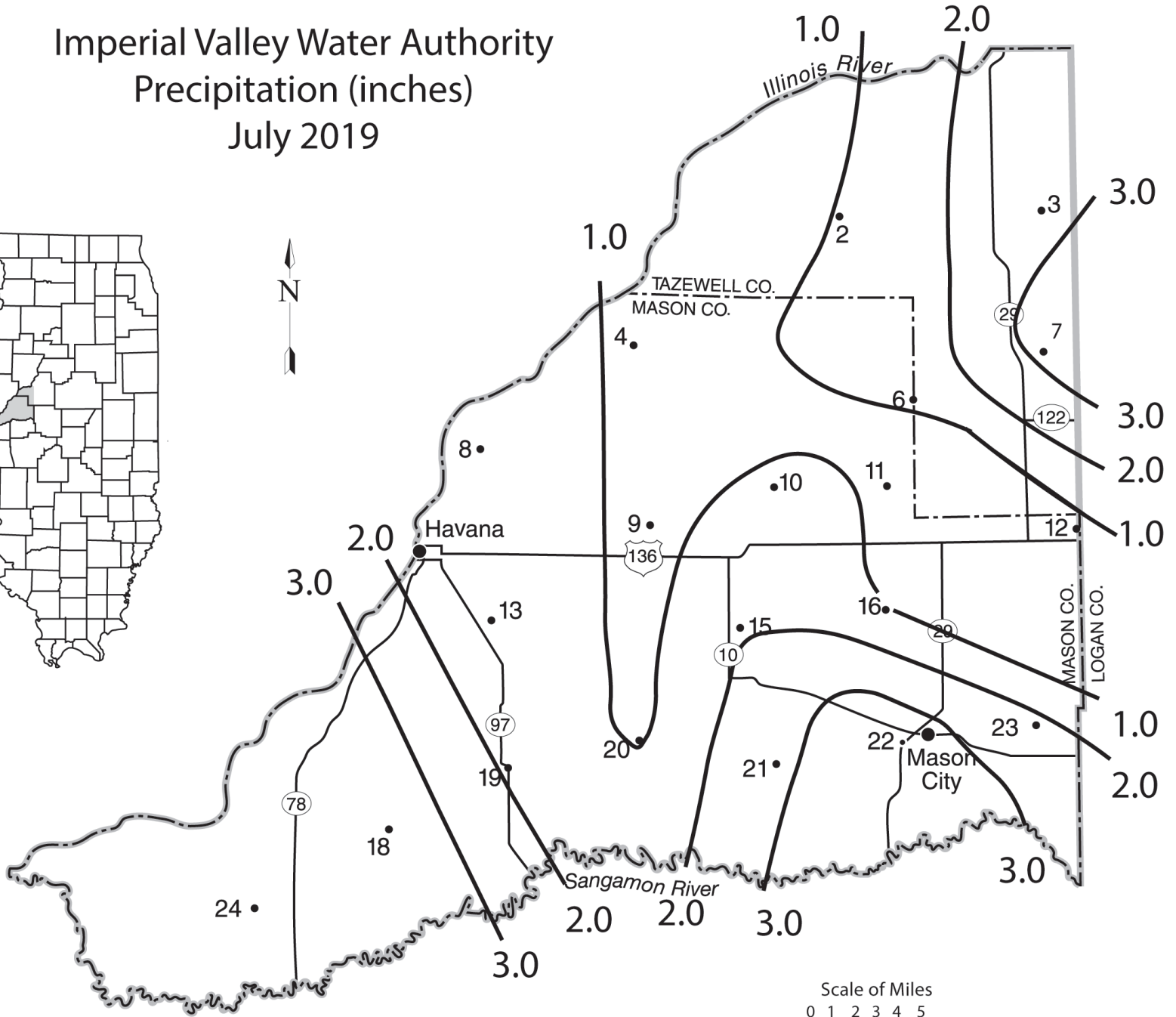
Raingage Network Operations

On August 2, 2019, Erin Bauer and Hayden Wennerdahl serviced all gages and downloaded the digital data. All buckets were weighed and emptied.

Data Analysis

The average network precipitation for July 2019 was 1.82 inches, which is well below the previous 26-year network average. The largest monthly gage total was in the southeast near Mason City and the southwestern portion of the network. Monthly gage totals varied 3.35 inches across the network, from 0.55 inches at site #9, at the State Tree Nursery, southeast of Topeka to 3.90 inches at site #22, near Mason City. The 1981–2010 30-year average precipitation amounts for July at Havana and Mason City are 4.04 and 4.60 inches, respectively. The July 2019 network average of 1.82 inches is 47 percent of the 26-year (1993–2018) IVWA July network average of 3.84 inches.

Imperial Valley Water Authority Precipitation (inches) July 2019



July 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	0.02	0.02	0.03	0.06	0.03	0.03	0.00	0.06	0.00	0.03	0.00	0.02	0.03	0.01	0.00	0.03	0.02	0.04	0.02	0.01
2	0.00	0.01	0.00	0.04	0.00	0.00	0.00	0.06	0.14	0.01	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
3	0.09	1.72	0.16	0.13	0.83	0.54	0.39	0.68	0.37	0.48	0.98	0.92	0.31	2.46	1.36	0.69	2.09	1.31	1.58	1.77
4	0.05	0.16	0.01	0.02	0.02	0.03	0.03	0.02	0.01	0.01	0.05	0.09	0.01	0.02	0.02	0.03	0.01	0.06	0.00	0.00
5	0.22	0.22	0.00	0.02	0.00	0.02	0.00	0.01	0.00	0.00	0.04	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.08
6	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
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	0.00	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
9	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.13	0.01	0.00	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.00
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	0.00	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
14	0.49	0.22	0.00	0.50	2.07	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.03	0.00
15	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00
16	0.06	0.19	0.08	0.11	0.14	0.13	0.09	0.09	0.08	0.06	0.17	0.10	0.06	0.10	0.15	0.09	0.10	0.10	0.03	0.17
17	0.05	0.04	0.05	0.05	0.00	0.05	0.01	0.03	0.02	0.01	0.01	0.06	0.01	0.25	0.09	0.01	0.05	0.09	0.00	1.19
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	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00
21	0.00	0.00	0.26	0.23	0.00	0.22	0.00	0.06	0.22	0.00	0.07	0.49	0.43	0.00	0.00	0.01	0.33	2.20	0.24	0.14
22	0.01	0.01	0.02	0.02	0.00	0.02	0.00	0.03	0.01	0.01	0.05	0.00	0.02	0.00	0.06	0.00	0.02	0.02	0.06	0.03
23	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
24	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
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	0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00
27	0.01	0.03	0.00	0.00	0.01	0.00	0.01	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	0.01	0.23	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
29	0.02	0.02	0.04	0.03	0.00	0.03	0.01	0.03	0.00	0.00	0.05	0.06	0.02	0.24	0.10	0.07	0.04	0.04	0.02	0.16
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
31	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	1.04	2.88	0.65	1.22	3.11	1.09	0.55	1.08	0.85	0.76	1.47	1.91	0.94	3.86	1.79	0.99	2.66	3.90	2.14	3.55
Network Average =	1.82 Imperial Valley Network																			