



PRAIRIE RESEARCH INSTITUTE

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

Monthly Progress Report for June 2020 July 8, 2020

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Raingage Network Operations

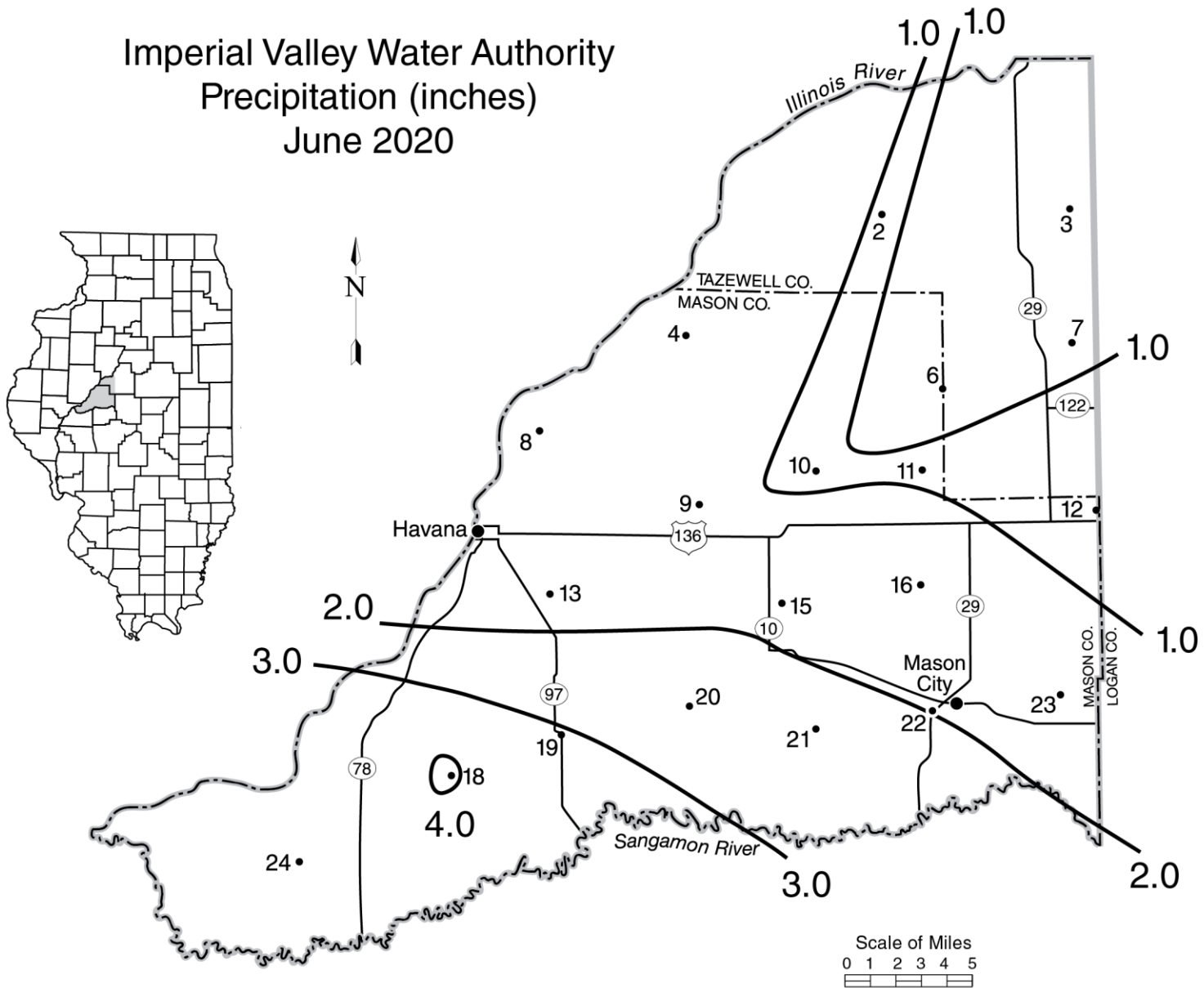
On July 2, Erin visited and downloaded the precipitation data of 17 of the 19 raingages. All gages operated properly. Collections were weighed at all sites. Calibrations were performed at sites #2, #3, and #4 with correlation coefficients of 0.99997, 0.99999, and 1.00000, respectively. Precipitation data for gages #9 and #12 are downloaded by modem every hour.

A correction for the May 2020 report: Gage #8 was moved on June 11 (not June 10) about 0.55 miles south-southwest to a better location away from tall trees.

Data Analysis

The average network precipitation for June 2020 was 1.74 inches, which is slightly below the previous 27-year network average. Monthly gage totals varied 3.6 inches across the network, from 0.47 inches at site #12, near San Jose, to 4.07 inches at site #18, south of the Sand Prairie–Scrub Oak Nature Preserve. The 1981–2010 30-year average precipitation amounts for June at Havana and Mason City are 4.36 and 4.04 inches, respectively. The June 2020 network average of 1.74 inches is 41 percent of the 27-year (1993–2019) IVWA June network average of 4.27 inches.

Imperial Valley Water Authority Precipitation (inches) June 2020



June 2020 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	----	----	----	----	----	0.08	----	----	----	----	0.26	----	----	0.27	0.16	0.27	0.10	----	----	0.64
4	----	----	0.21	0.06	0.06	0.46	0.05	0.10	0.10	0.03	0.06	----	0.01	0.03	0.05	0.02	0.01	0.01	----	----
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
9	0.08	0.11	0.14	0.21	0.20	0.15	0.03	0.13	0.12	0.03	0.03	0.18	0.14	0.29	0.30	0.21	0.10	0.12	0.18	0.22
10	----	0.07	----	0.06	0.12	0.01	0.02	----	0.10	----	----	0.03	0.10	----	----	0.02	0.10	0.05	----	----
11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
14	0.03	0.01	----	0.03	0.02	----	----	----	----	0.01	0.02	0.02	0.01	----	----	----	----	----	----	----
15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
20	0.01	0.04	0.02	0.03	0.03	0.06	----	----	0.02	0.09	0.11	0.02	0.05	0.10	0.04	0.07	0.05	0.05	----	0.11
21	0.01	0.85	0.02	0.04	0.16	0.05	0.03	0.01	----	0.07	0.03	0.04	0.17	0.03	0.04	0.04	0.04	0.09	0.05	0.01
22	0.13	0.09	0.09	0.07	0.01	0.07	0.01	0.06	0.04	0.03	0.01	0.18	0.15	0.24	0.15	0.17	0.21	0.22	0.19	0.63
23	----	0.09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
24	0.04	0.10	0.03	0.02	----	0.03	0.02	----	0.04	----	----	----	----	----	----	----	----	----	----	----
25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
27	0.14	0.16	0.80	0.19	0.14	0.32	0.57	0.23	0.07	0.02	0.71	0.99	0.65	2.74	1.90	1.16	1.22	0.86	0.68	0.51
28	0.03	0.01	0.02	0.03	0.03	0.05	0.03	0.03	0.02	0.13	0.04	0.02	0.03	0.03	0.03	0.02	0.02	0.07	0.02	----
29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
30	0.46	0.27	0.35	0.48	0.33	0.37	0.34	0.36	0.39	0.06	0.37	0.38	0.45	0.34	0.44	0.38	0.34	0.53	0.39	0.45
Monthly	0.93	1.80	1.68	1.22	1.10	1.65	1.10	0.92	0.90	0.47	1.64	1.86	1.76	4.07	3.11	2.36	2.19	2.00	1.51	2.57
Network Average =	1.74		Imperial Valley Network																	