



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 2020
May 19, 2020

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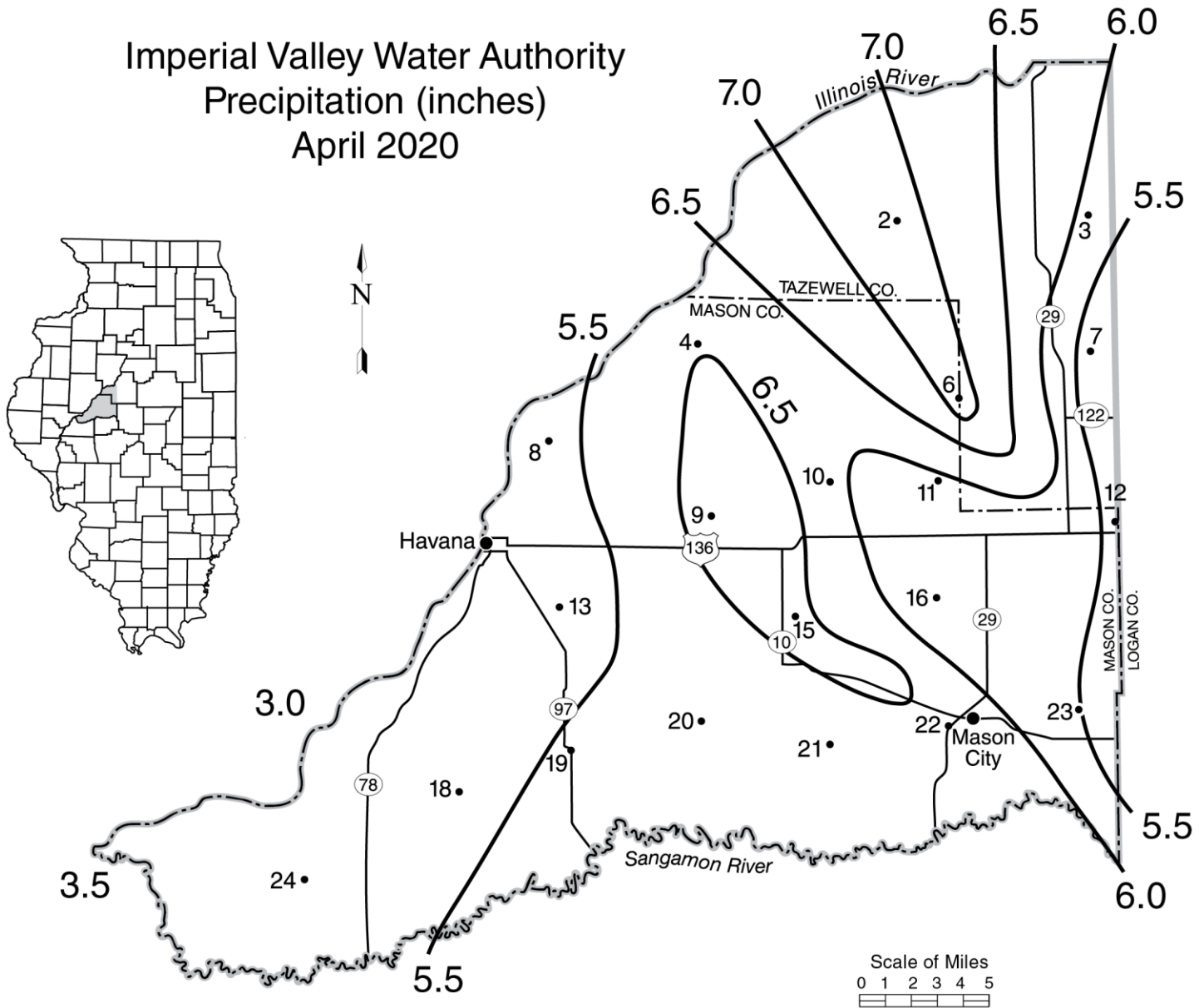
Raingage Network Operations

On May 8, Erin visited each raingage and downloaded the precipitation data collected since March 3rd, 2020. All gages operated properly. Collections were weighed and emptied at all sites. A new tare weight was recorded for each bucket.

Data Analysis

The average network precipitation for April 2020 was 6.11 inches, which is above the previous 27-year network average. Monthly gage totals varied 1.95 inches across the network, from 5.27 inches at site #12, near San Jose, to 7.22 inches at site #6, southwest of Manito. 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 2020 network average of 6.11 inches is 173 percent of the 27-year (1993–2019) IVWA April network average of 3.52 inches. The April 2020 network average precipitation is the second highest April precipitation since 1993. The highest April precipitation was 6.35 inches in April 2017.

Imperial Valley Water Authority Precipitation (inches) April 2020



April 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	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	0.03	----	----	0.01	----	
3	----	----	----	----	0.01	0.01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
4	0.01	0.01	----	----	----	----	----	----	----	----	0.01	----	----	----	0.01	----	----	0.02	----	0.02	
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
8	0.10	0.03	0.26	0.17	0.03	0.34	0.40	0.42	0.31	0.09	0.01	0.08	0.34	0.05	0.15	0.01	0.16	0.12	----	0.06	
9	----	----	----	----	0.01	----	----	----	----	----	0.01	----	----	0.01	----	----	----	----	----	----	
10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
11	0.17	0.23	0.14	0.10	0.09	0.08	0.02	0.04	----	0.03	----	0.16	0.01	0.07	0.11	0.06	0.09	0.07	----	0.04	
12	0.41	0.20	0.47	0.23	0.21	0.48	0.22	0.20	0.10	0.16	0.32	0.17	0.03	0.53	0.37	0.30	0.15	0.17	0.12	0.52	
13	----	----	0.02	0.01	0.01	0.02	----	----	----	----	----	----	0.01	----	0.03	----	----	0.02	----	----	
14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
15	0.05	0.04	----	0.06	0.04	----	----	----	0.02	0.03	0.01	0.03	----	0.03	----	0.02	0.01	----	0.01	0.01	
16	0.40	0.28	0.38	0.36	0.36	0.40	0.02	0.31	0.31	0.21	0.38	0.42	0.22	0.45	0.47	0.42	0.39	0.31	0.04	0.47	
17	0.21	0.21	0.17	0.17	0.14	0.15	0.35	0.13	0.13	0.16	0.15	0.12	0.14	0.19	0.18	0.16	0.14	0.14	0.31	0.14	
18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
20	0.01	0.02	----	----	0.03	----	0.03	----	----	0.01	----	----	----	----	----	0.01	0.01	----	----	----	
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
23	0.48	0.13	0.12	0.34	0.16	0.13	0.11	0.17	0.20	0.09	0.10	0.77	0.20	0.47	0.30	0.40	0.63	0.26	0.11	0.31	
24	1.12	1.13	1.20	1.29	1.00	1.10	1.48	1.22	1.56	1.19	0.92	1.00	0.79	1.11	1.02	1.18	0.99	1.26	1.19	1.29	
25	2.60	1.71	2.48	3.05	1.98	2.10	2.25	2.43	2.03	1.89	2.10	2.11	2.40	1.79	2.10	2.15	2.21	2.26	1.86	1.52	
26	----	0.01	0.01	----	----	----	0.01	0.04	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	----	
27	0.01	----	----	0.01	----	----	----	----	0.01	----	----	----	----	----	----	0.01	0.02	0.01	----	----	
28	0.70	0.89	0.64	0.63	0.54	0.70	1.12	0.75	0.50	0.54	1.08	1.12	0.77	0.62	0.74	0.86	0.75	0.96	0.92	0.87	
29	0.93	1.02	0.58	0.79	0.69	0.36	0.65	0.74	0.63	0.83	0.53	0.63	0.66	0.52	0.56	0.54	0.67	0.84	0.96	0.51	
30	0.01	----	----	0.01	0.01	----	----	0.01	----	0.03	0.01	0.01	----	----	----	----	----	----	----	----	
Monthly	7.21	5.91	6.47	7.22	5.31	5.87	6.66	6.46	5.80	5.27	5.67	6.61	5.61	5.82	6.08	6.14	6.25	6.46	5.54	5.76	
Network Average =		6.11																			

Imperial Valley Network