



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 March 2023
April 27, 2023

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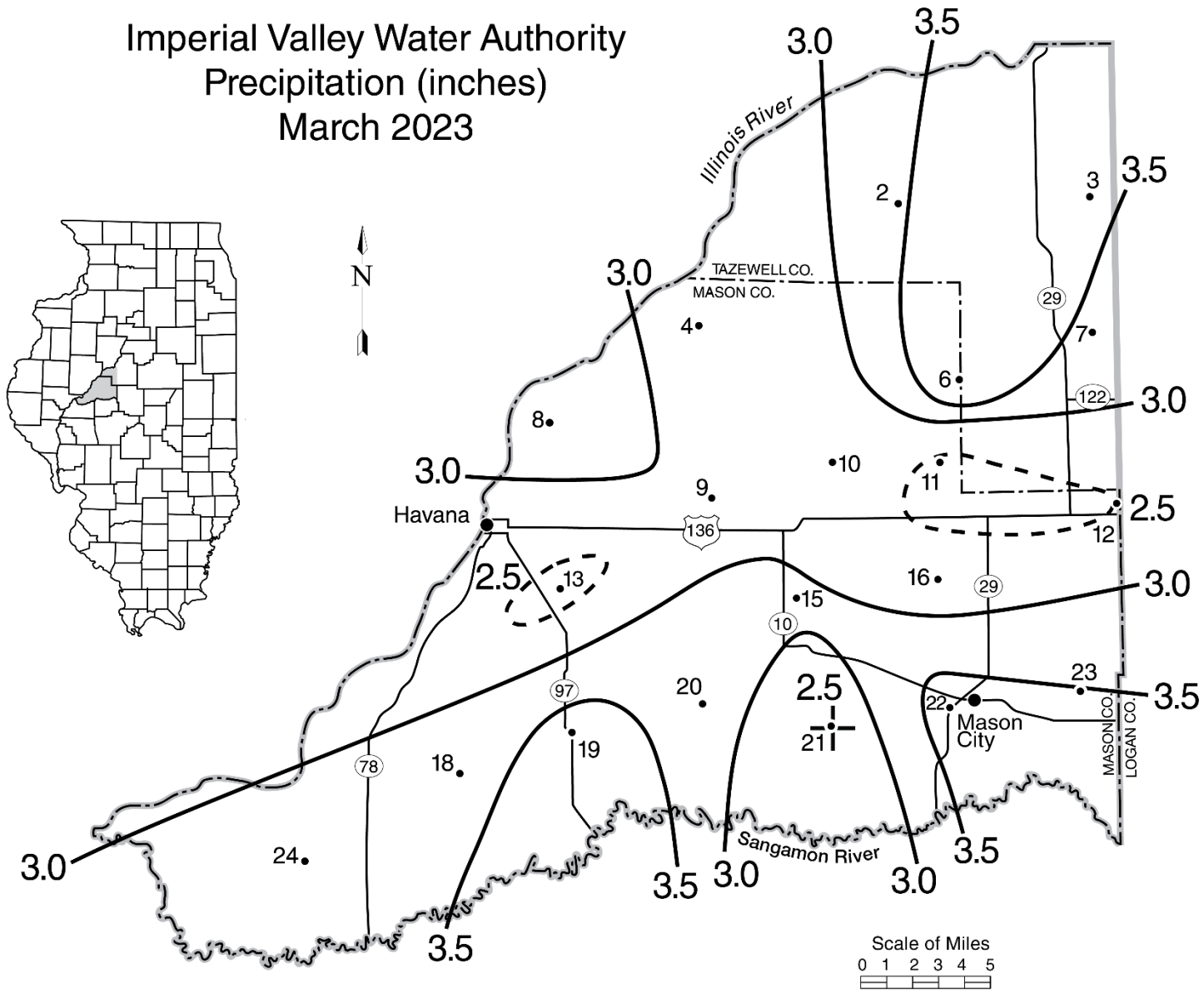
Raingage Network Operations

On April 6, Emily Winfield downloaded the March precipitation data. The collections were weighed, and the buckets were emptied, cleaned, and tared. Precipitation data for gages #9 and #12 are downloaded by modem every hour to an Illinois State Water Survey server.

Data Analysis

The average network precipitation for March 2023 was 3.15 inches, which is above the previous 30-year network average. Monthly gage totals varied 1.60 inches across the network, from 2.38 inches at site #13, southeast of Havana, to 3.98 inches at site #6, southeast of Manito. The 30-year (1991–2020) average precipitation amounts for the month of March at Havana and Mason City are 2.72 and 2.49 inches, respectively. The March 2023 network average of 3.15 inches is 131 percent of the 30-year (1993–2022) IVWA March network average of 2.40 inches. This was the eighth wettest February since 1993.

Imperial Valley Water Authority Precipitation (inches) March 2023



March 2023 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	0.74	0.78	0.44	1.04	0.99	0.51	0.76	0.76	0.74	1.00	0.44	0.82	0.82	0.70	0.88	0.95	0.86	1.09	1.08	0.81
4	-	0.01	0.02	0.02	0.03	0.02	0.01	0.01	0.02	0.03	0.05	0.02	0.03	0.04	0.02	0.03	0.22	0.04	0.01	-
5	0.01	-	0.00	-	0.02	0.02	0.01	0.01	0.01	0.01	0.02	-	-	0.01	-	0.01	0.11	0.01	-	-
6	0.01	0.01	0.01	-	-	-	-	-	0.01	0.01	-	-	-	-	0.01	-	0.04	0.01	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
8	-	-	-	-	-	-	-	0.01	-	-	-	-	-	-	-	-	-	0.01	-	0.01
9	0.22	0.15	0.20	0.29	0.15	0.26	0.02	0.20	0.08	0.01	0.01	0.21	0.17	0.25	0.28	0.23	0.01	0.01	0.20	0.32
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	-
11	0.23	0.20	0.14	0.16	0.13	0.18	0.21	0.17	0.12	0.05	0.12	0.22	0.15	0.16	0.14	0.20	-	0.13	0.12	0.18
12	0.01	0.01	0.03	0.05	0.03	0.04	0.02	0.02	0.03	0.05	0.04	0.01	0.03	0.02	0.04	0.02	0.07	0.04	0.02	0.01
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	0.52	0.69	0.42	0.79	0.54	0.61	0.40	0.58	0.33	0.32	0.27	0.47	0.26	0.33	0.38	0.20	0.12	0.42	0.26	0.36
17	0.01	0.00	0.03	0.03	0.00	0.00	0.04	0.01	0.01	0.02	0.01	0.00	0.03	0.00	0.05	0.02	-	0.04	0.03	0.01
18	0.03	0.00	0.00	0.01	-	0.02	-	0.01	0.01	0.01	0.00	-	0.01	0.01	-	0.02	-	-	0.01	0.01
19	0.01	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	0.01	-	0.00	-	0.01	0.01	0.01	0.01	-	0.03	-	0.00	-	0.01	0.00	0.01	0.01	0.01	-	0.00
22	0.58	0.65	0.31	0.26	0.32	0.22	0.11	0.20	0.16	0.14	0.11	0.35	0.21	0.35	0.19	0.43	0.11	0.01	0.01	0.26
23	0.18	0.30	0.29	0.28	0.19	0.25	0.37	0.25	0.30	0.23	0.09	0.15	0.19	0.05	0.36	0.12	0.17	0.26	0.30	0.13
24	0.20	0.11	0.27	0.25	0.18	0.35	0.13	0.20	0.19	0.16	0.42	0.31	0.22	0.49	0.27	0.34	0.22	0.32	0.26	0.54
25	0.36	0.33	0.29	0.50	0.36	0.30	0.46	0.25	0.28	0.37	0.29	0.23	0.32	0.23	0.42	0.25	0.53	0.29	0.38	0.23
26	-	-	0.01	-	0.01	0.01	-	-	0.00	-	0.01	0.00	-	0.01	-	-	0.04	0.02	0.02	-
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	0.07	0.07	0.02	-	-	0.03	-	-	-	-	0.00	0.00	0.00	-	0.02	-	-	0.03	-	0.03
31	0.29	0.46	0.29	0.31	0.40	0.53	0.23	0.24	0.12	0.07	0.50	0.32	0.13	0.61	0.65	0.46	0.02	0.73	0.58	0.58
Monthly	3.48	3.78	2.79	3.98	3.35	3.36	2.78	2.92	2.42	2.51	2.38	3.14	2.57	3.27	3.72	3.26	2.53	3.43	3.27	3.49

Network Average = 3.15 Imperial Valley Network

The March 2023 network average is 131% of the 30-year (1993–2022) IVWA March network average of 2.40 inches.