



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 March 2024
April 19, 2024

Erin Bauer, Emily Winfield, Mike Krasowski, and Kevin Rennels
Phone: (217) 300-3471; (866) 292-7305 (toll-free); (217) 244-3166; (217) 333-8466
E-mail: ebauer@illinois.edu

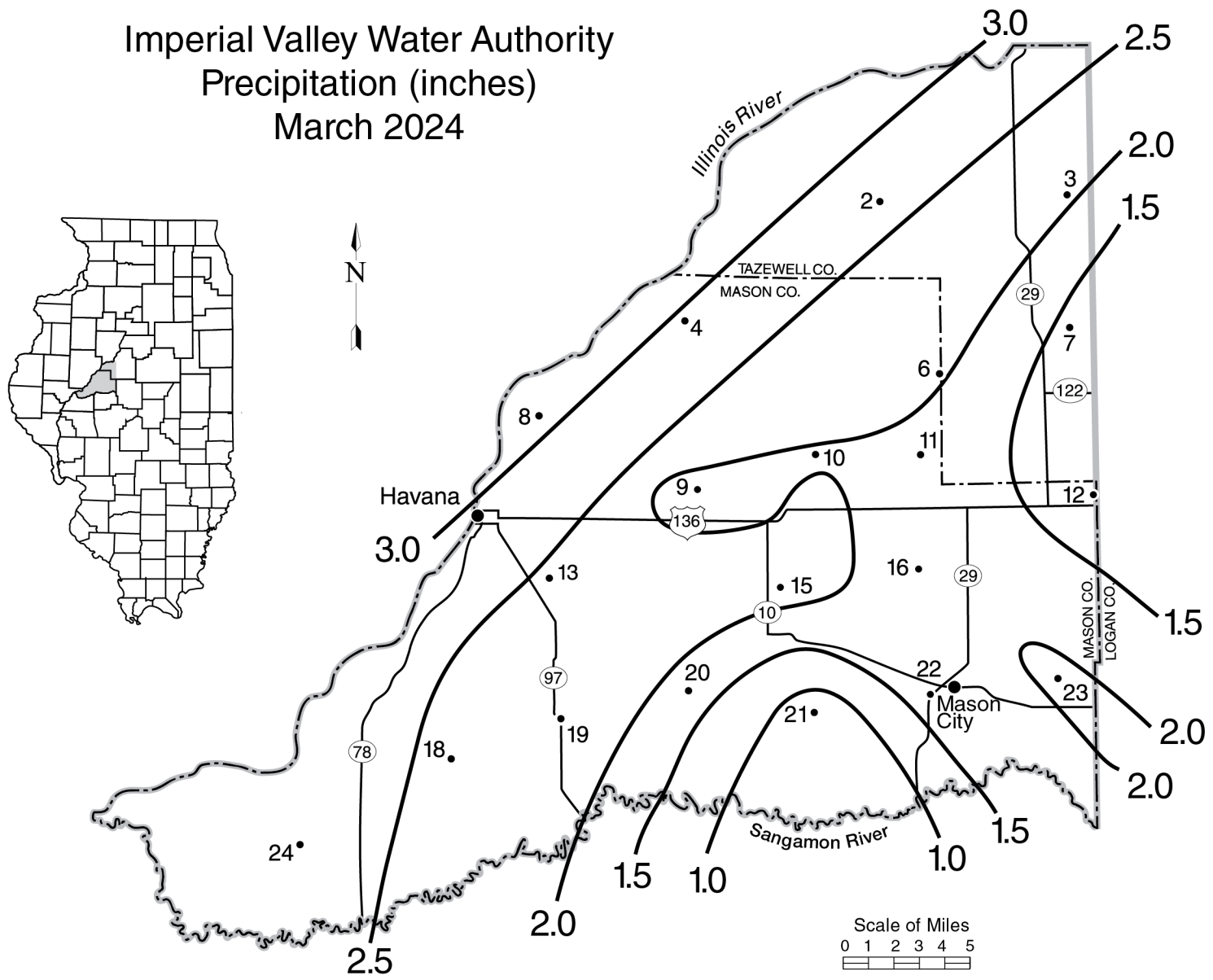
Raingage Network Operations

On April 4 and 10, Emily Winfield downloaded the March precipitation data. The collections were weighed. 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 2024 was 2.09 inches, which is below the previous 31-year network average. Monthly gage totals varied 2.77 inches across the network, from 0.71 inches at site #21, south of Teheran to 3.49 inches at site #8, northeast of Havana. 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 2024 network average of 2.09 inches is 86 percent of the 31-year (1993–2023) IVWA March network average of 2.42 inches.

Imperial Valley Water Authority Precipitation (inches) March 2024



March 2024 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	0.01	0.03	0.01	0.01	0.03	0.01	-	-	0.03	0.03	-	0.02	-	0.02	< 0.01	-	-	0.02	0.01	< 0.01
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
5	0.22	0.20	0.28	0.25	0.11	0.30	0.27	0.12	0.21	0.02	0.25	0.23	0.12	0.13	0.22	0.10	0.02	0.09	0.16	0.26
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	0.07	0.06	0.08	0.08	0.06	0.10	0.12	0.05	0.11	0.01	-	0.07	0.05	0.11	0.08	0.09	0.10	0.05	0.04	0.18
8	0.35	0.37	0.31	0.36	0.31	0.35	0.29	0.25	0.20	0.22	0.37	0.24	0.21	0.34	0.33	0.23	0.13	0.31	0.35	0.34
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	0.15	0.09	0.17	0.04	0.01	0.02	-	0.01	0.04	0.03	< 0.01	0.04	< 0.01	0.01	< 0.01	-	-	0.01	-	0.12
14	0.58	0.44	0.47	0.44	0.26	0.86	0.50	0.50	0.37	0.20	0.34	0.32	0.27	0.42	0.34	0.29	0.12	0.25	0.32	0.50
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	0.01	-	< 0.01	0.04	-	0.01	-	-	-	0.01	-	< 0.01	-	-	-
22	0.12	0.09	0.11	0.08	0.08	0.04	0.01	-	0.06	0.01	0.02	0.10	0.07	0.08	0.03	0.01	-	0.06	0.12	0.06
23	-	-	< 0.01	-	0.01	0.01	-	-	-	-	-	-	0.01	-	0.01	-	-	-	-	-
24	-	0.02	0.01	-	0.01	-	-	-	0.05	0.01	-	< 0.01	0.01	-	0.01	-	-	< 0.01	0.03	-
25	1.07	0.54	1.05	0.73	0.47	1.46	0.43	0.77	0.58	0.26	1.13	0.79	0.70	1.25	1.11	0.94	0.16	0.66	0.45	1.42
26	0.06	0.09	0.09	0.17	0.08	0.05	0.07	0.07	0.18	0.12	0.07	0.10	0.10	0.05	0.12	0.05	0.16	0.13	0.25	0.04
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	-	< 0.01	< 0.01	0.01	-	0.01	-	0.01	0.01	0.01	0.02	0.01	0.01	0.01	-	0.02	0.01	0.01	<0.01	-
29	-	-	-	-	< 0.01	-	-	-	-	-	0.01	-	<0.01	-	-	-	-	-	-	-
30	0.08	0.02	-	-	-	-	-	-	-	-	0.01	-	-	-	-	< 0.01	-	-	-	-
31	0.04	0.09	0.16	0.09	0.01	0.29	0.09	0.18	0.01	0.28	0.07	0.34	0.30	-	-	0.01	0.02	0.18	0.32	-
Total	2.75	2.03	2.75	2.26	1.43	3.49	1.78	1.97	1.87	1.20	2.29	2.24	1.85	2.41	2.25	1.74	0.71	1.78	2.04	2.93

Imperial Valley Network Average = 2.09 inches

The March 2024 network average is 86 percent of the 31-year (1993–2023) IVWA March network average of 2.42 inches.