



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 June 2024
July 18, 2024

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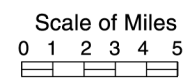
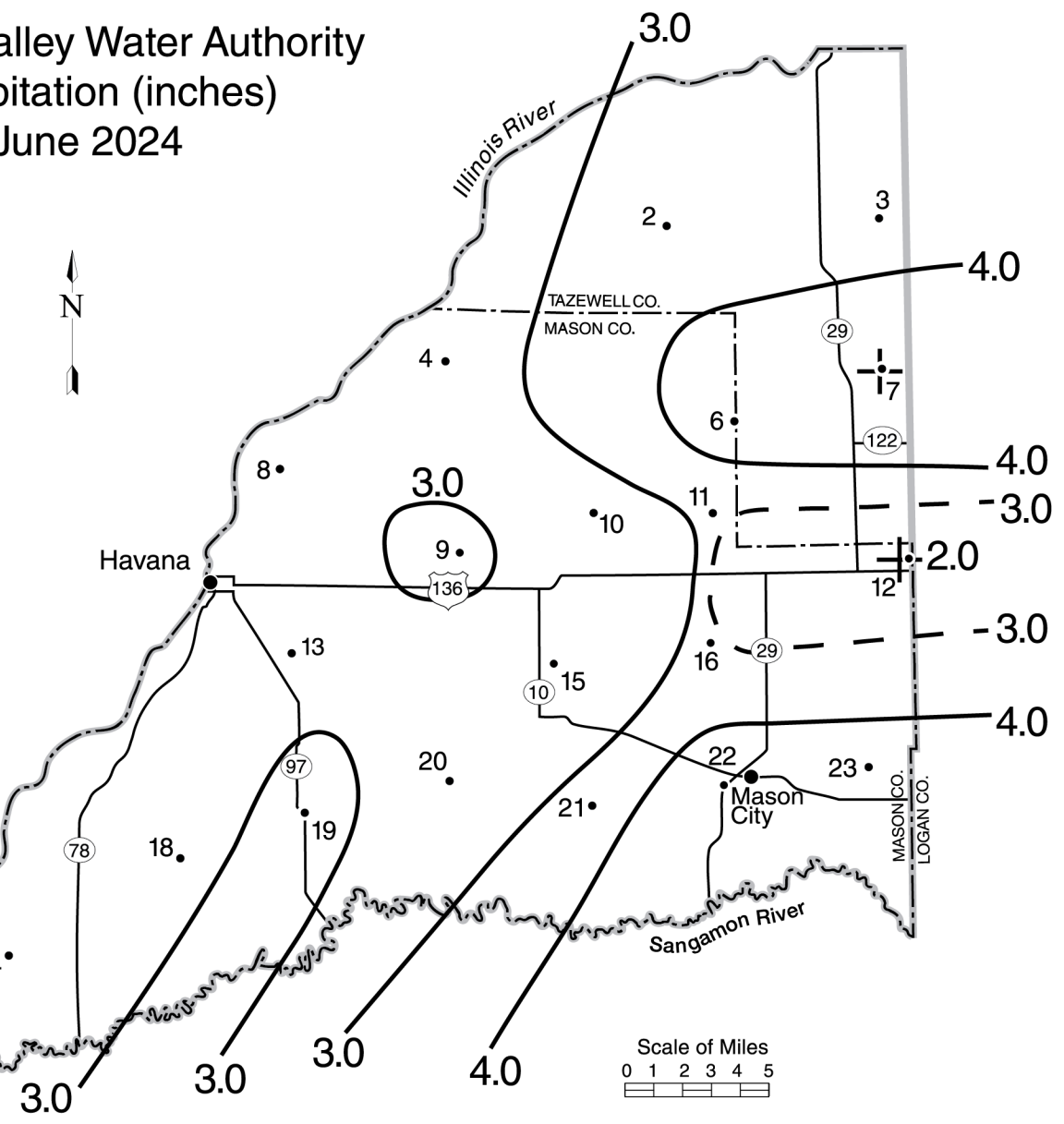
Raingage Network Operations

On July 2, Emily Winfield downloaded the June precipitation data. The collections were weighed, emptied, cleaned and tared. The logger at Site #23 was replaced. Some data from site #23 are missing and the precipitation was estimated for June 1-12. 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 June 2024 was 3.18 inches, which is below the previous 31-year network average. Monthly gage totals varied 3.00 inches across the network, from 2.04 inches at site #12, in San Jose to 5.04 inches at site #7, east of Green Valley. The 30-year (1991–2020) average precipitation amounts for the month of June at Havana and Mason City are 4.73 and 4.20 inches, respectively. The June 2024 network average of 3.18 inches is 79 percent of the 31-year (1993–2023) IVWA June network average of 4.03 inches.

Imperial Valley Water Authority Precipitation (inches) June 2024



June 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	0.99	0.13	0.03	0.93	0.92	0.02	0.36	0.19	0.43	0.21	0.13	1.06	1.59	0.18	0.89	0.16	0.27	0.71	0.46	0.21
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	< 0.01	< 0.01	0.02	0.05	-	< 0.01	-	-	-	0.01	< 0.01	-	-	-	< 0.01	0.01	0.09	< 0.01	< 0.01	-
4	0.21	0.58	0.30	0.83	< 0.01	0.47	0.75	0.60	0.78	0.14	0.74	0.12	0.01	0.28	0.25	0.05	0.01	0.01	0.08	0.07
5	0.15	0.10	0.18	0.14	0.71	0.11	0.16	0.15	0.14	0.15	0.16	0.16	0.14	0.18	0.22	0.16	0.03	0.14	0.15	0.20
6	0.02	< 0.01	-	-	-	0.01	-	0.01	-	0.01	< 0.01	0.02	0.01	0.01	0.01	-	-	< 0.01	< 0.01	-
7	-	-	-	0.02	-	0.02	0.01	0.01	< 0.01	0.01	0.01	0.01	0.02	-	0.01	-	-	0.02	0.01	-
8	0.01	0.01	0.04	0.02	0.01	0.04	-	< 0.01	0.01	-	0.01	< 0.01	0.02	-	0.02	-	-	0.01	< 0.01	0.01
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	0.26	0.09	0.03	0.03	-	0.08	-	0.02	-	-	0.01	0.02	0.01	0.01	0.01	-	-	0.02	0.01	-
14	0.15	0.58	0.03	0.14	1.56	0.03	-	0.01	0.04	0.16	0.02	0.02	0.01	< 0.01	0.01	-	0.01	0.01	0.01	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	0.78	0.65	0.03	0.10	0.20	0.07	0.10	0.10	0.05	0.02	0.03	0.09	0.11	0.18	0.20	0.08	0.10	0.21	0.15	0.12
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	0.97	1.01	1.77	2.27	0.97	1.87	1.74	1.31	1.64	1.30	1.31	1.04	1.10	1.60	1.76	1.50	2.81	3.47	3.58	1.50
26	0.02	0.14	0.05	0.01	0.64	0.04	0.01	0.03	0.03	0.02	0.03	0.03	0.03	0.05	0.04	0.04	0.04	0.06	0.05	0.02
27	-	-	-	-	-	-	-	-	-	-	0.01	-	-	-	-	-	0.01	-	-	-
28	-	-	< 0.01	0.01	0.02	0.02	0.01	0.02	-	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.01	0.02	-
29	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	-	0.01	0.02	-	0.08	0.06	0.11	-	0.02	-	0.01
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	3.58	3.31	2.48	4.54	5.04	2.80	3.15	2.46	3.13	2.04	2.48	2.60	3.06	2.56	3.50	2.12	3.40	4.68	4.52	2.16

Imperial Valley Network Average = 3.18 inches

The June 2024 network average is 79 percent of the 31-year (1993–2023) IVWA June network average of 4.03 inches.