



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 May 2024
June 12, 2024

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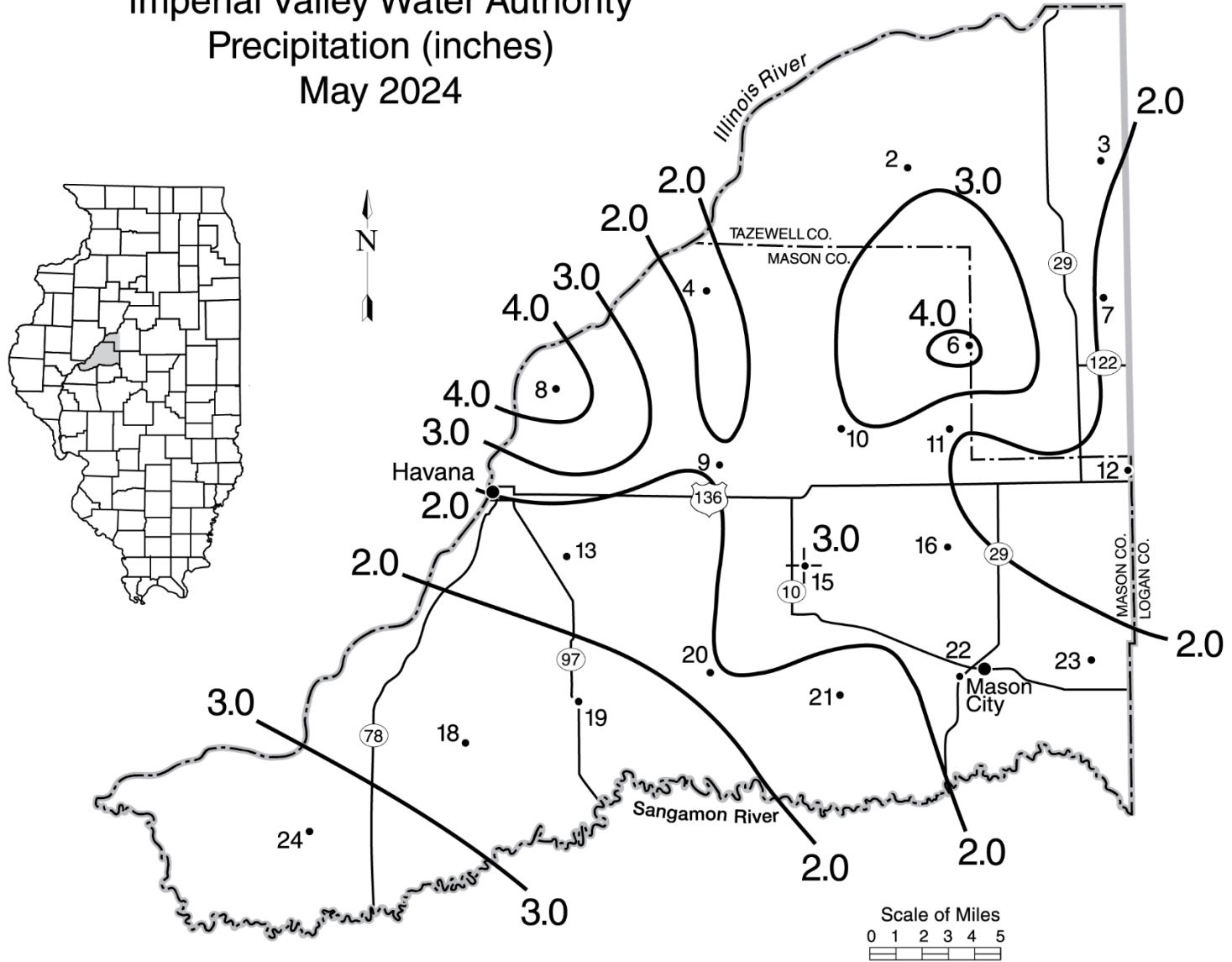
Raingage Network Operations

On June 4, Emily Winfield downloaded the May precipitation data. The collections were weighed, emptied, cleaned and tared. Some data at site #23 are missing and the precipitation was estimated for May 6 - 31. 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 May 2024 was 2.44 inches, which is below the previous 31-year network average. Monthly gage totals varied 3.40 inches across the network, from 1.18 inches at site #21, south of Teheran to 4.58 inches at site #8, northeast of Havana. The 30-year (1991–2020) average precipitation amounts for the month of May at Havana and Mason City are 5.08 and 4.47 inches, respectively. The May 2024 network average of 2.44 inches is 58 percent of the 31-year (1993–2023) IVWA May network average of 4.19 inches.

Imperial Valley Water Authority Precipitation (inches) May 2024



May 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	0.14	0.28	0.21	0.31	0.13	0.41	-	0.26	0.06	0.04	0.28	0.03	0.11	0.22	0.09	0.08	0.02	0.23	0.15	0.60
3	0.19	0.27	0.10	0.19	0.39	0.22	-	0.18	0.21	0.13	0.06	0.24	0.16	0.11	0.24	0.15	0.01	0.16	0.21	0.13
4	0.40	0.08	0.01	0.17	0.54	0.94	0.92	0.26	0.08	0.04	-	0.17	< 0.01	-	-	0.01	0.01	< 0.01	-	0.06
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	0.01	-	-	-
7	0.64	0.71	0.69	0.81	0.40	0.72	0.60	0.84	0.92	0.58	0.59	0.77	1.07	0.65	0.80	0.67	0.83	0.92	0.99	0.94
8	0.01	-	0.03	0.13	0.03	0.06	0.07	0.12	0.02	0.02	-	0.09	-	0.23	0.11	0.03	0.02	0.14	0.07	0.42
9	0.10	0.05	-	0.02	0.03	0.02	0.09	-	-	0.04	0.01	0.27	0.10	0.01	0.03	0.03	-	0.06	0.08	-
10	-	0.02	-	-	-	0.01	0.01	-	-	-	-	< 0.01	-	< 0.01	-	0.02	0.01	0.01	0.01	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	0.90	0.23	0.14	0.42	0.11	1.46	0.01	0.60	0.22	0.07	0.34	0.78	0.13	0.11	0.17	0.17	0.02	0.15	0.14	0.37
14	0.10	0.06	0.10	0.41	0.08	0.06	0.08	0.12	0.13	0.09	0.02	0.05	0.05	0.14	0.09	0.10	0.02	0.04	0.05	0.03
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	0.05	0.10	0.03	0.38	0.13	0.04	0.04	0.27	0.12	0.05	0.02	0.08	0.04	-	0.11	0.08	0.02	0.09	0.06	0.06
17	-	< 0.01	0.01	-	0.01	-	0.01	-	< 0.01	0.01	-	-	< 0.01	-	-	-	0.01	0.07	0.04	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	1.06	-	-	-	0.05	0.01	0.02	-	-	0.01	0.03	0.06	0.07	-	0.04	0.02	0.09
20	-	-	-	-	-	-	-	-	-	-	-	-	0.01	-	-	-	< 0.01	-	< 0.01	-
21	-	-	-	-	-	-	0.03	-	-	0.01	-	-	0.01	< 0.01	-	-	-	-	< 0.01	-
22	-	-	-	-	-	-	-	-	-	0.01	-	-	-	-	-	0.01	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	0.11	0.14	0.16	0.05	0.01	0.25	0.07	0.02	0.01	0.04	0.09	0.40	0.22	0.85	0.44	0.30	0.09	0.41	0.32	0.73
25	0.01	-	-	< 0.01	-	0.01	0.02	-	-	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-
26	0.13	0.13	0.16	0.15	0.01	0.38	0.07	0.09	0.06	0.15	0.04	0.13	0.18	0.06	0.12	0.16	0.10	0.22	0.20	0.18
27	0.01	0.32	0.08	0.08	-	-	0.02	0.04	0.18	0.01	-	-	0.02	-	0.03	-	-	0.01	0.01	0.01
28	0.01	0.01	0.02	0.02	< 0.01	-	0.02	0.01	0.02	0.01	< 0.01	-	0.02	0.01	0.01	0.02	-	0.03	0.02	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	2.81	2.38	1.73	4.19	1.89	4.58	2.06	2.85	2.03	1.33	1.45	3.02	2.14	2.43	2.30	1.90	1.18	2.58	2.38	3.61

Imperial Valley Network Average = 2.44 inches

The May 2024 network average is 58 percent of the 31-year (1993–2023) IVWA May network average of 4.19 inches.