



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 August 2024
September 25, 2024

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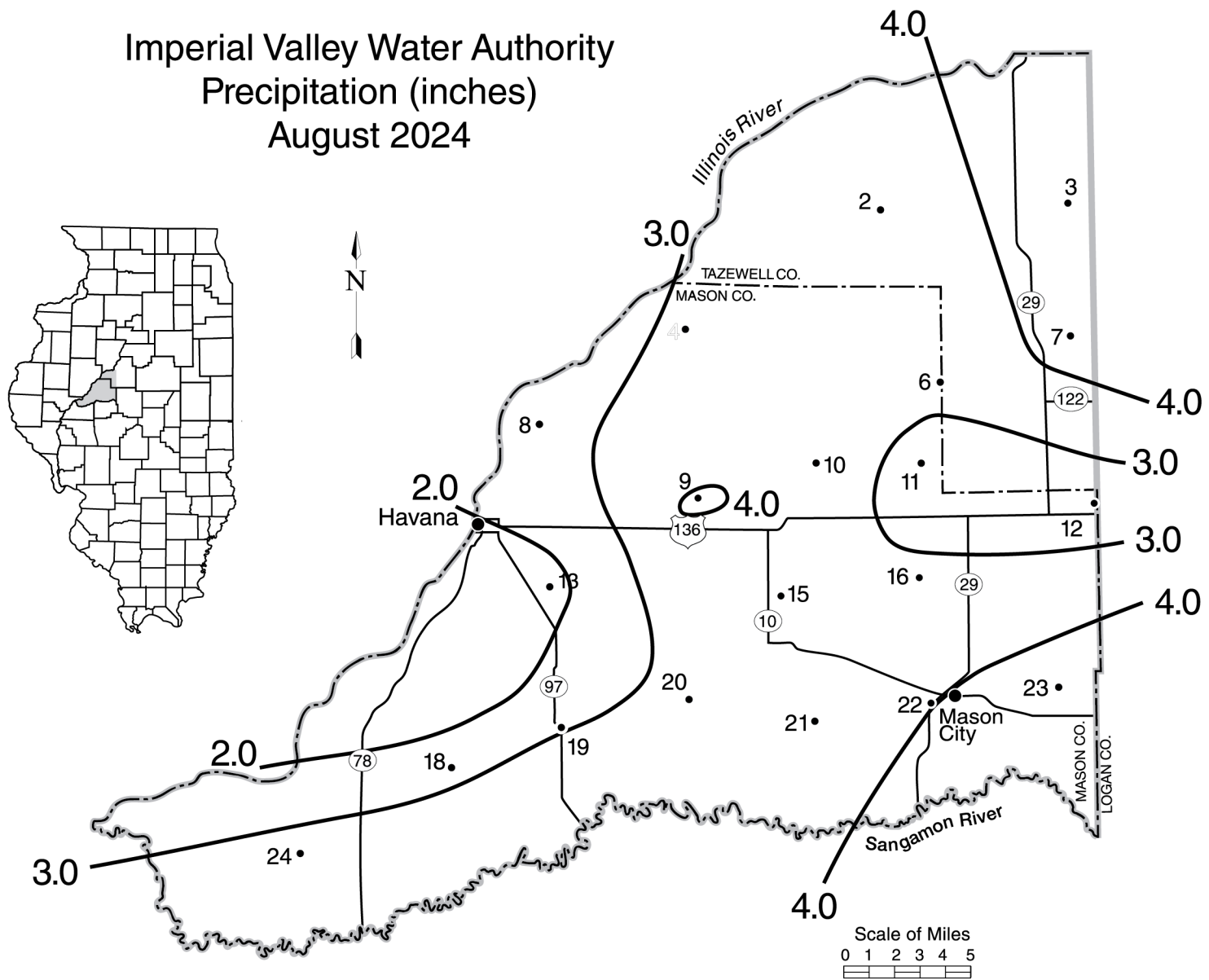
Raingage Network Operations

On September 13, Emily Winfield downloaded the August precipitation data. The collections were weighed, emptied, cleaned and the buckets were tared. The batteries were replaced at Sites #3 and #21. 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 August 2024 was 3.41 inches, which is slightly higher than the previous 31-year network average. Monthly gage totals varied 2.55 inches across the network, from 1.86 inches at site #13 southeast of Havana to 4.42 inches at site #23, east of Mason City. The 30-year (1991–2020) average precipitation amounts for the month of August at Havana and Mason City are 4.02 and 3.57 inches, respectively. The August 2024 network average of 3.41 inches is 102 percent of the 31-year (1993–2023) IVWA August network average of 3.36 inches.

Imperial Valley Water Authority Precipitation (inches) August 2024



August 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	1.18	2.39	1.43	1.49	2.43	0.66	2.39	1.83	0.95	1.16	1.02	1.88	1.27	1.31	1.42	1.49	1.45	1.34	1.09	1.57
2	-	-	-	0.01	-	-	0.02	0.01	-	0.02	0.01	< 0.01	-	< 0.01	-	0.14	0.07	0.01	-	-
3	-	-	-	-	-	< 0.01	0.01	0.01	0.01	-	-	< 0.01	0.01	0.01	0.01	0.18	0.04	0.01	0.01	0.08
4	-	< 0.01	-	0.01	0.01	0.01	0.02	0.01	0.02	0.01	-	-	0.01	0.02	-	0.15	0.01	-	0.01	-
5	< 0.01	< 0.01	< 0.01	-	0.01	0.01	-	-	0.01	-	-	-	-	< 0.01	-	0.12	0.01	-	0.01	-
6	-	-	-	0.01	0.01	-	-	-	-	-	-	-	-	-	-	0.13	0.01	0.01	0.01	-
7	< 0.01	-	-	-	0.01	< 0.01	0.01	-	-	-	-	-	-	-	-	-	-	0.01	0.01	-
8	0.02	0.01	0.01	0.02	0.02	0.02	0.06	< 0.01	-	0.01	0.02	0.01	0.02	0.04	0.01	0.02	0.04	0.01	0.01	-
9	-	-	< 0.01	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	-
10	-	-	0.01	0.01	< 0.01	0.01	0.01	-	0.01	0.02	0.02	0.01	0.01	0.02	-	0.03	0.01	0.01	0.01	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	0.01	0.02	0.02	< 0.01	0.02	0.02	0.06	0.02	0.02	-	0.03	0.01	0.01	-	-	-	-	0.02	0.01	0.01
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	0.01	< 0.01	0.01	-	0.02	0.01	0.05	< 0.01	0.01	0.02	0.01	0.01	0.01	-	0.02	-	< 0.01	-	-	0.05
15	0.72	0.34	0.82	0.70	0.85	0.70	0.74	0.84	0.65	0.60	0.32	0.62	0.65	0.18	0.29	0.36	0.58	0.69	0.90	0.14
16	1.26	0.99	0.73	0.73	0.48	0.83	0.47	0.76	0.74	0.75	0.34	0.60	0.90	0.75	0.88	0.69	1.04	1.45	1.83	1.40
17	0.05	-	-	0.02	0.03	0.01	0.02	-	0.01	0.01	0.01	0.01	-	-	0.01	0.01	-	-	0.01	-
18	0.01	0.01	0.01	0.04	0.02	0.01	0.03	-	-	0.02	< 0.01	-	< 0.01	0.01	-	-	< 0.01	0.01	-	-
19	-	-	0.01	-	-	-	0.01	-	-	-	-	-	-	-	< 0.01	< 0.01	-	< 0.01	0.01	-
20	-	-	-	-	-	-	-	-	< 0.01	-	< 0.01	-	-	-	-	-	0.02	-	-	-
21	-	-	-	< 0.01	0.01	0.02	0.03	-	-	-	-	-	< 0.01	-	< 0.01	-	-	-	< 0.01	-
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	0.28	0.11	-	-	0.02	0.02	0.06	< 0.01	< 0.01	0.02	0.02	0.01	< 0.01	0.01	-	-	0.07	< 0.01	< 0.01	-
28	0.19	0.35	0.18	0.22	0.42	0.13	0.04	0.28	0.22	0.06	0.07	0.14	0.26	0.51	0.34	0.19	0.01	0.24	0.39	0.42
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	< 0.01	-	0.03	-	< 0.01	0.01	-	-	-	-	0.01	-	-	< 0.01	-	0.06
31	0.01	0.02	0.01	0.03	0.03	0.02	0.01	< 0.01	-	0.01	-	0.01	-	0.14	0.04	0.07	0.21	0.16	0.09	0.05
Total	3.73	4.25	3.24	3.29	4.36	2.49	4.07	3.75	2.65	2.72	1.86	3.31	3.15	2.98	3.03	3.57	3.57	3.97	4.42	3.76

Imperial Valley Network Average = 3.41 inches

The August 2024 network average is 102 percent of the 31-year (1993–2023) IVWA August network average of 3.36 inches.