



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 September 2024
October 14, 2024

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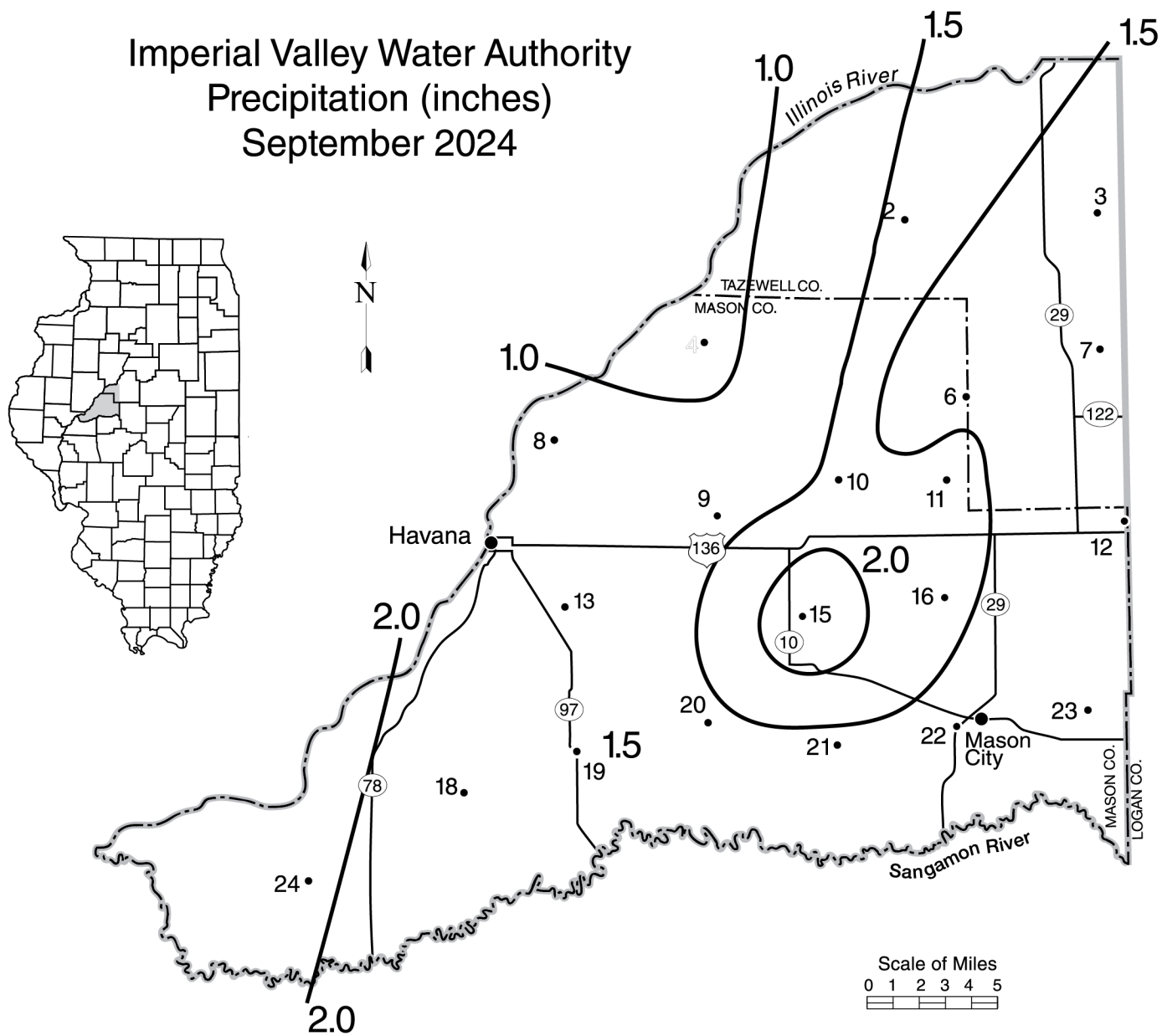
Raingage Network Operations

On October 8, Emily Winfield downloaded the September precipitation data. The collections were weighed, emptied, cleaned and the buckets were tared. Data from September 19-31 from site #21 are missing and were estimated. The battery was replaced at Site #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 September 2024 was 1.44 inches, which is much lower than the previous 32-year network average. Monthly gage totals varied 1.51 inches across the network, from 0.85 inches at site #4 west of Sand Ridge State Forest to 2.36 inches at site #15, north of Easton. The 30-year (1991–2020) average precipitation amounts for the month of September at Havana and Mason City are 3.37 and 3.35 inches, respectively. The September 2024 network average of 1.44 inches is 50 percent of the 32-year (1992–2023) IVWA September network average of 2.89 inches.

Imperial Valley Water Authority Precipitation (inches) September 2024



September 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	< 0.01	-	0.01	-	< 0.01	-	-	< 0.01	-	< 0.01	-	< 0.01	-	0.01	0.01	-	0.01	-	-
6	0.70	0.42	0.09	0.14	0.15	0.04	0.05	0.34	0.22	0.21	0.08	0.19	0.19	0.07	0.06	0.02	-	0.01	0.06	0.17
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.01
14	< 0.01	0.01	0.01	0.03	0.03	0.02	-	0.02	0.01	0.01	0.02	0.02	0.02	0.01	< 0.01	< 0.01	0.01	-	0.01	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	0.01	0.01	-	0.01	0.02	0.02	-	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-	< 0.01	0.01	< 0.01	-
20	0.03	0.09	< 0.01	0.02	0.06	0.02	0.12	0.09	0.27	0.27	0.10	0.32	0.43	0.01	0.08	0.13	0.25	0.37	0.54	-
21	0.08	0.01	0.02	0.18	0.26	0.07	0.01	0.13	0.27	0.03	0.01	0.29	0.24	0.09	0.02	0.01	0.08	0.16	0.08	0.68
22	0.19	0.09	0.20	0.24	0.25	0.37	0.27	0.29	0.25	0.09	0.21	0.21	0.14	0.29	0.26	0.19	0.18	0.17	0.18	0.35
23	0.10	0.07	0.03	0.17	0.15	0.07	0.21	0.19	0.26	0.06	0.17	0.31	0.11	0.26	0.37	0.28	0.24	0.19	0.16	0.23
24	0.48	0.59	0.50	0.51	0.47	0.56	0.66	0.52	0.41	0.40	0.63	0.98	0.48	0.59	0.68	0.61	0.45	0.30	0.27	0.68
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	0.01	0.02	-	0.02	0.01	0.01	-	0.01	-	0.01	0.01	0.04	0.01	-	0.02	0.01	0.03	0.04	0.10	0.01
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1.61	1.31	0.85	1.33	1.39	1.18	1.32	1.60	1.71	1.09	1.23	2.36	1.63	1.33	1.51	1.26	1.24	1.26	1.40	2.13

Imperial Valley Network Average = 1.44 inches

The September 2024 network average is 50 percent of the 32-year (1992–2023) IVWA September network average of 2.89 inches.