



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 July 2024
August 13, 2024

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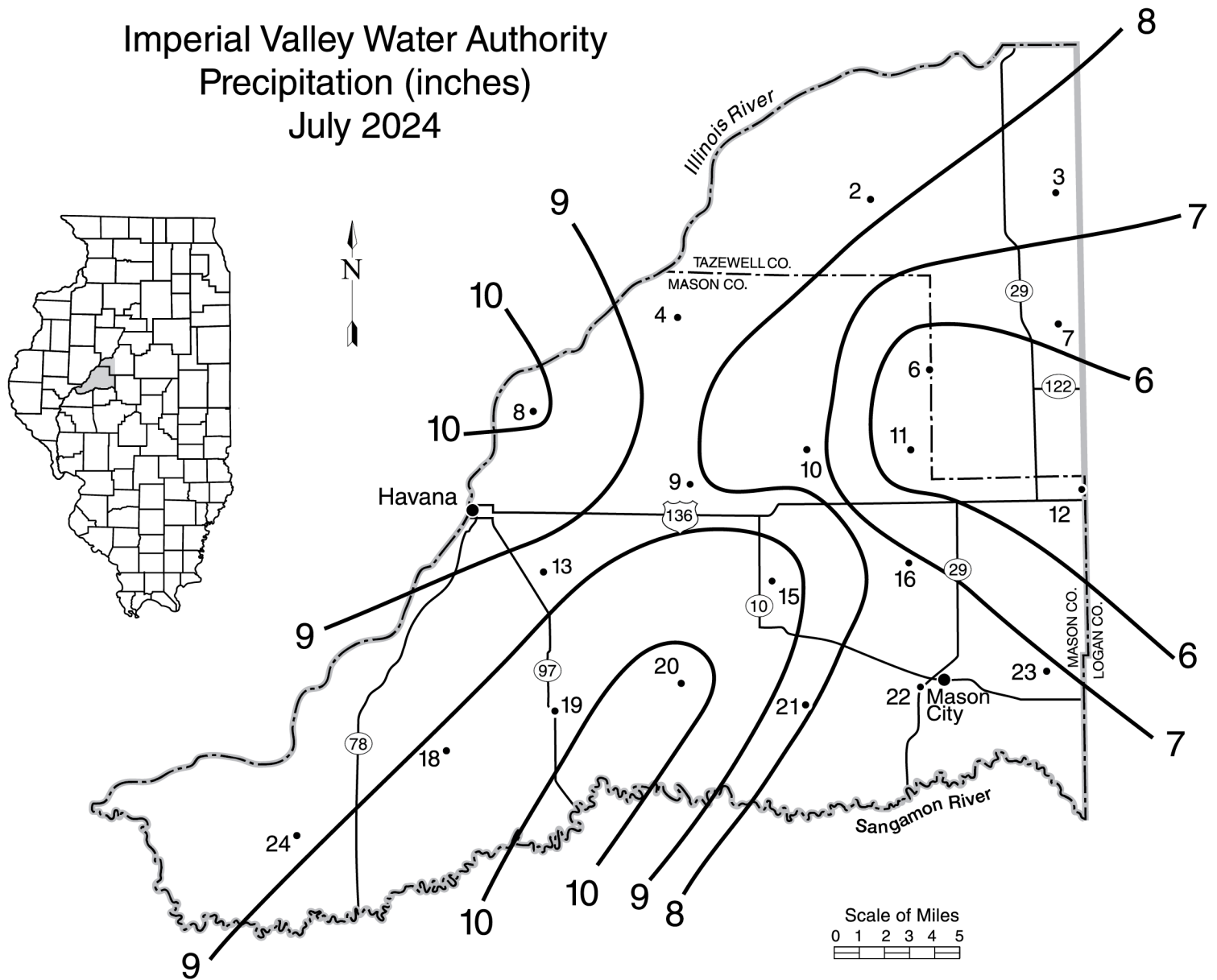
Raingage Network Operations

On August 7, Emily Winfield downloaded the July precipitation data. The collections were weighed, emptied, cleaned and tared. The logger battery was replaced at Site #10. 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 July 2024 was 7.95 inches, which is above the previous 31-year network average. Monthly gage totals varied 5.42 inches across the network, from 5.07 inches at site #12, in San Jose to 10.49 inches at site #20, southeast of Easton. The 30-year (1991–2020) average precipitation amounts for the month of July at Havana and Mason City are 5.14 and 4.18 inches, respectively. The July 2024 network average of 7.95 inches is 212 percent of the 31-year (1993–2023) IVWA July network average of 3.74 inches.

Imperial Valley Water Authority Precipitation (inches) July 2024



July 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	-	0.18	-	<	0.29	-	-	-	-	-	< 0.01	-	-	-	< 0.01	-	< 0.01	-	< 0.01
3	0.35	0.18	0.33	0.31	0.22	0.37	0.22	0.32	0.24	0.11	0.37	0.33	0.27	0.42	0.39	0.40	0.26	0.23	0.16	0.51
4	0.08	0.20	0.12	0.19	0.13	0.17	0.18	0.14	0.12	0.05	0.12	0.21	0.14	0.19	0.20	0.31	0.21	0.20	0.17	0.24
5	0.02	0.03	0.03	-	0.02	< 0.01	-	-	-	-	-	-	-	< 0.01	-	-	-	0.01	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	0.01	-	-	0.01	0.02	0.02	-	-	-	0.01	-	-	< 0.01	-	-	0.01	-	0.01
8	< 0.01	0.01	0.02	0.02	0.01	0.02	0.01	0.01	-	-	0.01	0.03	-	0.04	0.01	0.10	0.04	0.01	-	-
9	0.98	1.12	0.55	0.76	0.64	0.59	1.01	0.69	0.80	1.11	0.92	2.12	1.47	2.81	1.94	1.07	1.46	1.03	1.77	2.83
10	0.27	0.15	0.46	0.16	0.08	0.75	0.44	0.16	0.12	0.05	0.71	0.14	0.17	0.40	0.82	0.37	0.28	0.09	0.10	0.01
11	0.01	0.18	0.38	-	0.01	0.01	-	0.01	0.01	1.05	< 0.01	0.01	-	0.02	-	0.09	0.03	-	0.01	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	0.01	< 0.01	-	-	0.01	0.02	0.18	0.02	-	-	0.01	-	-	0.01	0.01	0.09	0.02	0.01	0.01	-
15	3.27	3.79	1.25	0.96	2.80	1.94	2.52	1.18	0.68	1.36	0.86	1.12	0.97	0.18	0.30	0.46	0.03	0.72	0.98	0.02
16	1.09	0.62	3.40	1.55	0.93	4.08	2.18	3.00	2.35	0.45	4.21	4.68	3.09	2.66	3.86	4.27	3.97	3.50	2.41	1.28
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
21	0.12	0.01	0.11	0.03	0.02	0.08	-	0.03	-	-	0.02	0.03	0.02	0.02	0.01	0.24	0.01	0.04	< 0.01	-
22	-	-	-	-	-	-	-	-	-	0.01	-	-	-	-	-	0.01	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	0.21	0.20	0.24	0.02	0.01	0.15	0.03	0.27	0.05	0.01	-	0.01	-	0.20	0.07	0.11	0.01	-	-	0.33
25	0.15	0.01	0.04	0.12	0.04	0.47	0.23	0.29	0.11	0.01	0.13	0.02	0.07	0.58	0.74	0.28	-	0.01	0.17	0.22
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	0.02	0.01	-	-	-	-	0.03	-	0.12	0.09	0.03	-	0.02	0.01	0.19
28	0.14	0.23	0.08	0.22	0.23	0.07	0.06	0.16	0.18	0.11	0.04	0.16	0.22	0.05	0.10	0.32	0.17	0.44	0.31	0.04
29	0.28	0.33	0.32	0.23	0.31	0.50	0.39	0.35	0.29	0.32	0.51	0.45	0.29	0.62	0.49	0.55	0.31	0.35	0.52	0.65
30	0.05	-	0.04	0.05	0.03	0.13	0.09	0.03	0.01	0.03	0.38	0.08	0.02	0.19	0.12	0.98	0.58	0.41	0.02	1.53
31	0.93	0.60	0.90	0.68	0.81	0.47	0.58	0.46	0.27	0.40	0.40	0.40	0.47	0.64	0.57	0.81	1.17	0.63	0.53	1.06
Total	8.10	7.66	8.45	5.31	6.29	10.15	8.15	7.11	5.25	5.07	8.70	9.82	7.18	9.17	9.71	10.49	8.55	7.72	7.17	8.94

Imperial Valley Network Average = 7.95 inches

The July 2024 network average is 212 percent of the 31-year (1993–2023) IVWA July network average of 3.74 inches.