



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 September 2022
September 15, 2022

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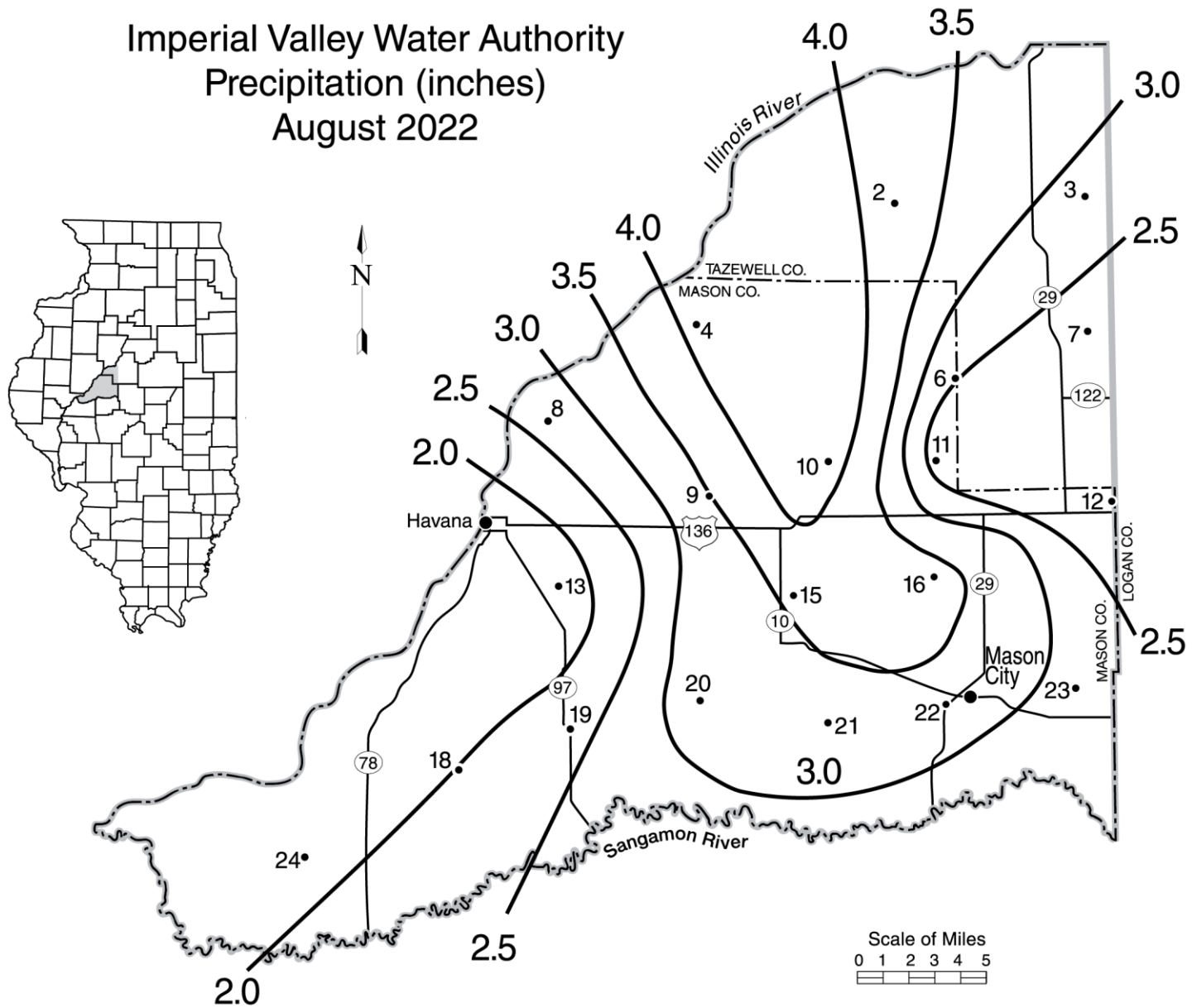
Raingage Network Operations

On September 8, Erin downloaded the data, weighed the precipitation collections, and emptied, cleaned, and tared the buckets at all the gages, except gage #9 and #12. Gage #7 data were estimated for August 1–10 because of a battery issue. 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 2022 was 2.92 inches, which is below the previous 29-year network average. Monthly gage totals varied 2.76 inches across the network, from 1.53 inches at site #13, southeast of Havana to 4.29 inches at site #10, south of Forest 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 2022 network average of 2.92 inches is 89 percent of the 29-year (1993–2021) IVWA August network average of 3.30 inches.

Imperial Valley Water Authority Precipitation (inches) August 2022



August 2022 Daily and Monthly Precipitation Amounts (inches), Imperial Valley Network

	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
DAY																				
1	0.39	0.51	0.22	0.42	*0.40	0.63	0.88	0.46	0.38	0.28	0.42	0.79	0.39	0.18	0.36	0.63	0.65	0.65	0.47	0.24
2	2.26	0.87	2.90	1.40	*1.12	0.79	1.95	2.90	1.54	1.09	0.52	1.61	1.99	1.01	0.79	0.95	1.79	1.48	1.25	0.06
3	0.01	0.00	-	0.03	*0.01	0.02	0.04	0.01	-	-	0.01	-	0.01	0.01	0.01	-	0.04	0.00	0.01	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	0.01	0.01	0.01	0.01	-	0.01	-	-	0.00	-	-	-	0.02	-	0.01	0.01	0.05	0.02	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	0.01	-	0.17	-	0.06	0.01	0.01	0.02	0.01	0.09	-	-	0.01	-	-	0.31	-	0.05	0.15	0.01
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	0.02	-	0.02	-	0.01	0.03	-	-	-	-	-	0.01	-	-	-	-	-	0.01	0.01	-
20	0.97	1.18	0.54	0.95	0.42	1.01	0.54	0.71	0.40	0.70	0.43	0.96	0.93	0.70	0.73	0.72	0.14	0.56	0.54	0.30
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	0.10	0.22	0.12	0.21	0.11	0.13	0.04	0.04	-	0.13	0.03	0.12	0.13	-	0.05	0.27	0.29	0.12	0.10	0.04
26	-	0.01	0.01	0.02	0.01	0.01	0.01	-	-	0.01	0.01	0.02	0.02	0.01	0.02	-	0.03	-	-	-
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	0.01	0.01	0.12	-	-	-	-	-	-	-	-	-	-	-	-	0.01	0.01	0.01	-	-
29	-	-	-	-	-	0.01	0.01	-	-	-	-	0.03	0.08	0.10	0.18	0.20	0.03	0.05	0.04	0.78
30	-	-	-	-	0.04	0.05	-	0.16	0.13	0.04	0.13	0.13	0.11	0.03	0.09	0.16	0.06	0.39	0.21	0.13
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monthly	3.78	2.81	4.09	3.04	*2.17	2.70	3.48	4.29	2.45	2.34	1.53	3.66	3.69	2.03	2.21	3.26	3.08	3.35	2.77	1.58

Network Average = 2.92 Imperial Valley Network

* Precipitation estimated

The August 2022 network average is 89 percent of the 29-year (1993-2021) IVWA August network average of 3.30 inches.