



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 October 2022
October 12, 2022

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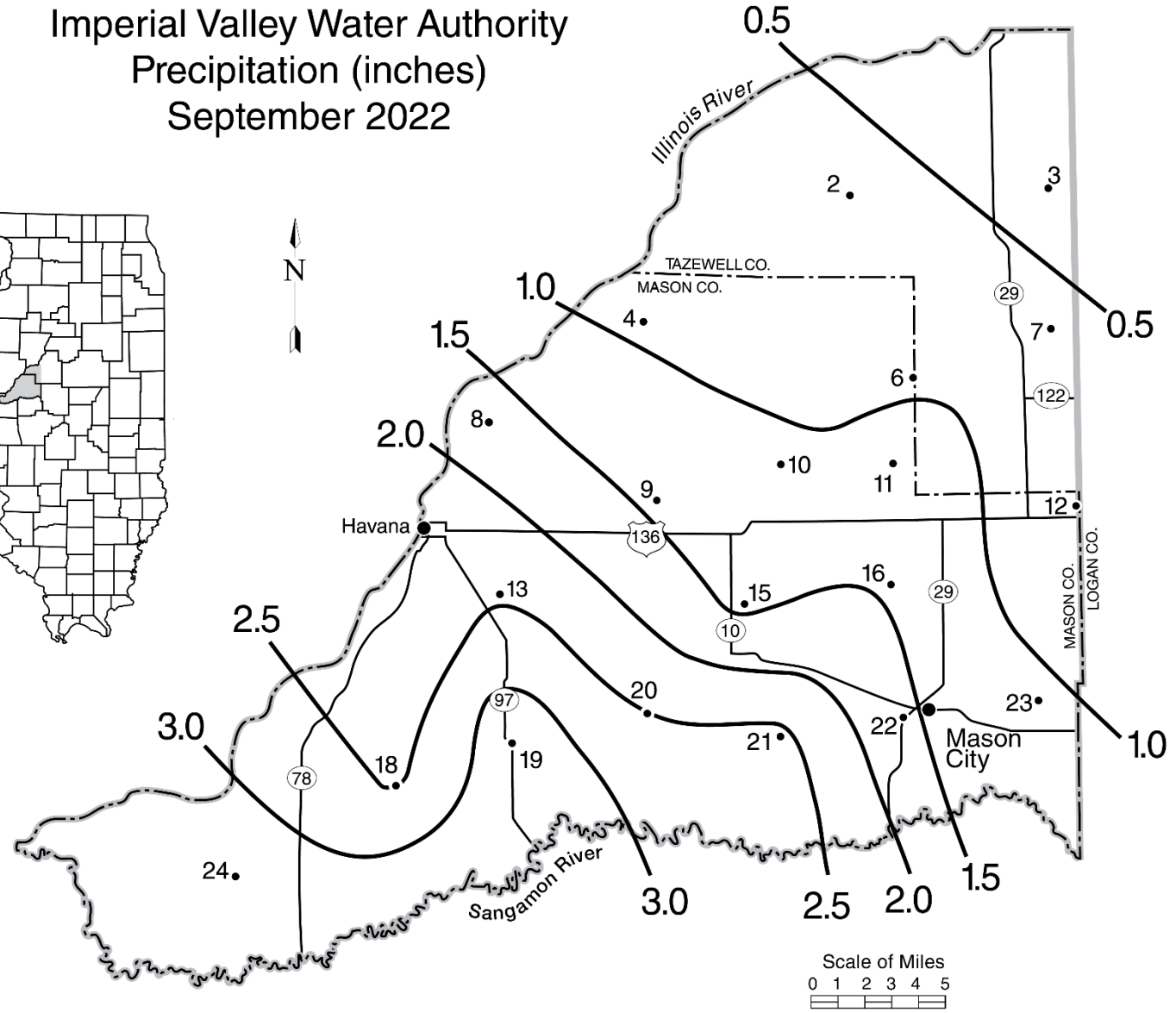
Raingage Network Operations

On October 4, Erin downloaded the data, weighed the precipitation collections, and emptied, cleaned, and tared the buckets at all the gages, except gage #9 and #12. 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 2022 was 1.59 inches, which is below the previous 29-year network average. Monthly gage totals varied 3.04 inches across the network, from 0.35 inches at site #3, southeast of South Pekin, to 3.39 inches at site #24, southeast of Snicarte. The 30-year (1991–2020) average precipitation amounts for the month of September at Havana and Mason City are 3.26 and 3.55 inches, respectively. The September 2022 network average of 1.59 inches is 54 percent of the 30-year (1992–2021) IVWA September network average of 2.95 inches.

Imperial Valley Water Authority Precipitation (inches) September 2022



September 2022 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	0.01	0.01	-	-	0.01	0.01	-	0.01	-	0.01	-	-	0.01	0.02	-	-	0.04	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	0.01	0.01	-	0.02	0.01	0.02	0.01	-	-	-	0.01	0.05	0.18	0.02	0.01	-	0.08	0.14	0.25	-
4	0.10	0.04	0.17	0.21	0.24	0.17	0.67	0.59	0.90	0.18	0.25	0.26	0.61	0.09	0.07	0.10	0.15	0.19	0.27	0.22
5	0.01	0.01	-	-	-	-	-	-	-	-	0.01	-	-	-	-	0.01	-	-	-	0.03
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	0.11	0.04	0.26	0.09	0.05	0.44	-	0.05	0.09	-	0.08	0.04	0.07	0.17	0.19	0.07	0.12	0.02	0.05	0.27
12	0.02	0.01	0.02	0.01	0.03	0.01	0.03	0.02	0.02	-	0.02	0.03	0.02	0.01	-	0.01	-	0.01	0.01	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	0.01	0.01	-	0.02	0.02	0.02	-	0.02	-	-	-	-	-	0.01	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	0.09	0.07	0.07	0.16	0.07	0.19	0.16	0.13	0.11	0.05	0.17	0.16	0.13	0.19	0.18	0.18	0.07	0.15	0.11	0.26
19	0.09	0.02	0.12	0.02	0.11	0.34	0.21	0.03	0.04	0.13	1.63	0.48	0.14	1.36	2.25	1.77	1.85	0.75	0.18	2.09
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	0.04	0.02	0.12	0.21	0.04	0.33	0.22	0.15	0.25	0.11	0.24	0.22	0.21	0.36	0.48	0.21	0.25	0.19	0.19	0.31
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	0.20	0.13	0.11	0.10	0.05	0.11	0.10	0.05	0.03	0.02	0.02	0.11	0.08	0.20	0.16	0.09	0.03	0.05	0.08	0.21
24	0.01	-	0.03	0.04	0.02	0.03	0.01	0.03	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.04	0.02	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monthly	0.67	0.35	0.90	0.86	2.15	1.66	1.41	1.07	1.44	0.51	2.43	1.37	1.46	2.44	3.35	2.45	2.60	1.55	1.15	3.39

Network Average = 1.59 Imperial Valley Network

The September 2022 network average is 54 percent of the 30-year (1992–2021) IVWA September network average of 2.94 inches.