



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
November 22, 2022

Erin Bauer, Mike Krasowski, Kevin Rennels, and Emily Winfield
Phone: (217) 300-3471; (866) 292-7305 (toll-free); (217) 244-3166; (217) 333-8466
E-mail: ebauer@illinois.edu

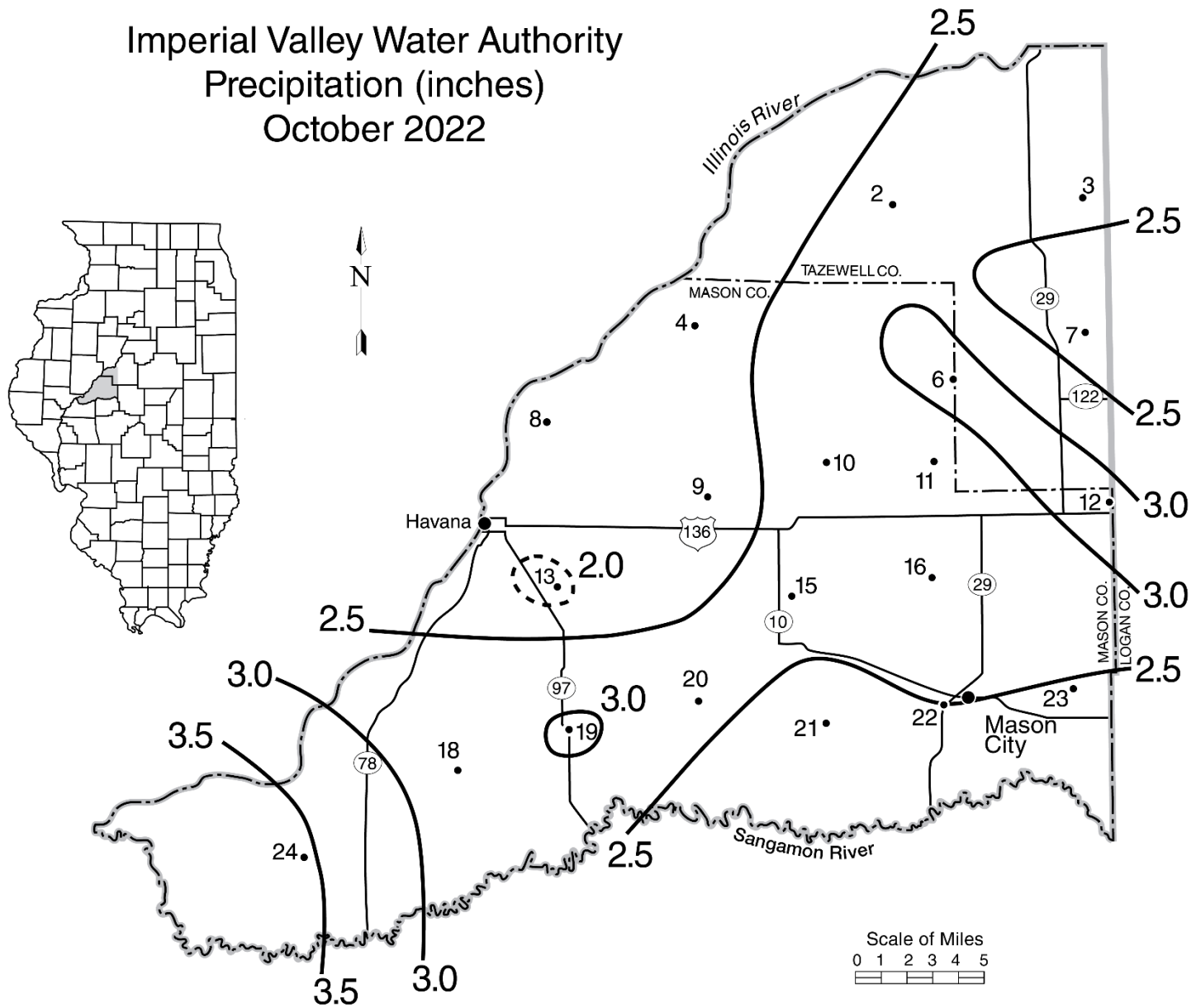
Raingage Network Operations

On November 2, Erin Bauer and Emily Winfield 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 October 2022 was 2.65 inches, which is below the previous 29-year network average. Monthly gage totals varied 1.64 inches across the network, from 1.91 inches at site #13, southeast of Havana, to 3.55 inches at site #24, southeast of Snicarte. The 30-year (1991–2020) average precipitation amounts for the month of October at Havana and Mason City are 3.37 and 3.33 inches, respectively. The October 2022 network average of 2.65 inches is 91 percent of the 30-year (1992–2021) IVWA October network average of 2.90 inches.

Imperial Valley Water Authority Precipitation (inches) October 2022



October 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	0.02	-	0.04	0.01	0.01	0.01	0.02	0.01	0.01	-	0.04	0.02	0.03	0.02	0.01	-	0.02	-	0.01
6	0.06	0.04	0.06	0.04	0.06	0.03	-	0.05	0.02	0.06	0.01	0.02	0.04	0.06	0.07	0.07	0.04	0.05	0.02	0.17
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	0.66	0.86	0.47	1.13	0.61	0.51	0.47	0.88	1.03	0.69	0.39	0.93	0.86	0.61	0.70	0.79	0.68	0.60	0.57	0.47
12	0.02	0.01	0.02	0.02	0.07	0.02	0.01	-	0.01	0.13	0.01	0.03	0.05	0.01	0.02	0.01	0.03	0.04	0.01	0.00
13	0.02	0.02	0.01	0.03	-	0.01	-	-	-	0.01	0.01	-	-	0.01	0.01	0.01	0.01	0.02	-	-
14	0.15	0.14	0.14	0.23	0.13	0.16	0.02	0.20	0.03	0.15	0.01	0.17	0.07	0.11	0.13	0.01	0.02	0.13	0.02	0.13
15	0.01	0.01	0.02	0.01	0.03	0.02	0.02	0.02	0.02	0.01	0.02	-	0.04	0.02	0.04	0.01	0.02	0.02	0.04	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	0.10	0.08	0.06	0.17	0.06	0.05	0.02	0.09	0.07	0.01	0.02	0.11	0.08	0.13	0.10	0.04	-	0.10	0.01	0.08
25	1.35	1.12	1.36	1.21	0.73	1.35	1.32	1.26	1.02	1.10	1.12	1.26	1.12	1.34	1.58	1.36	1.11	1.03	1.11	2.18
26	0.01	0.02	0.01	-	0.01	0.01	0.03	0.01	-	0.02	0.03	0.01	0.02	0.02	0.04	0.02	-	-	0.00	0.03
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
30	0.13	0.13	0.05	0.16	0.24	0.11	0.07	0.15	0.08	0.27	0.09	0.07	0.06	0.25	0.22	0.17	0.07	0.06	0.10	0.33
31	0.21	0.15	0.09	0.18	0.29	0.21	0.14	0.24	0.20	0.77	0.21	0.31	0.27	0.21	0.14	0.27	0.17	0.46	0.59	0.15
Monthly	2.71	2.60	2.28	3.22	2.24	2.49	2.11	2.92	2.49	3.23	1.91	2.93	2.61	2.77	3.07	2.76	2.14	2.52	2.47	3.55

Network Average = 2.65 Imperial Valley Network

The October 2022 network average is 91 percent of the 30-year (1992-2021) IVWA October network average of 2.90 inches.