



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 March 2022
April 23, 2022

Erin Bauer, Daniel Abrams, Steve Wilson, and Kevin Rennels
Phone: (217) 300-3471; (866) 292-7305 (toll-free); (217) 333-8466; (217) 333-0956
E-mail: ebauer@illinois.edu

Raingage Network Operations

On April 11, Erin downloaded the data and weighed and tared the precipitation collections for all gages.

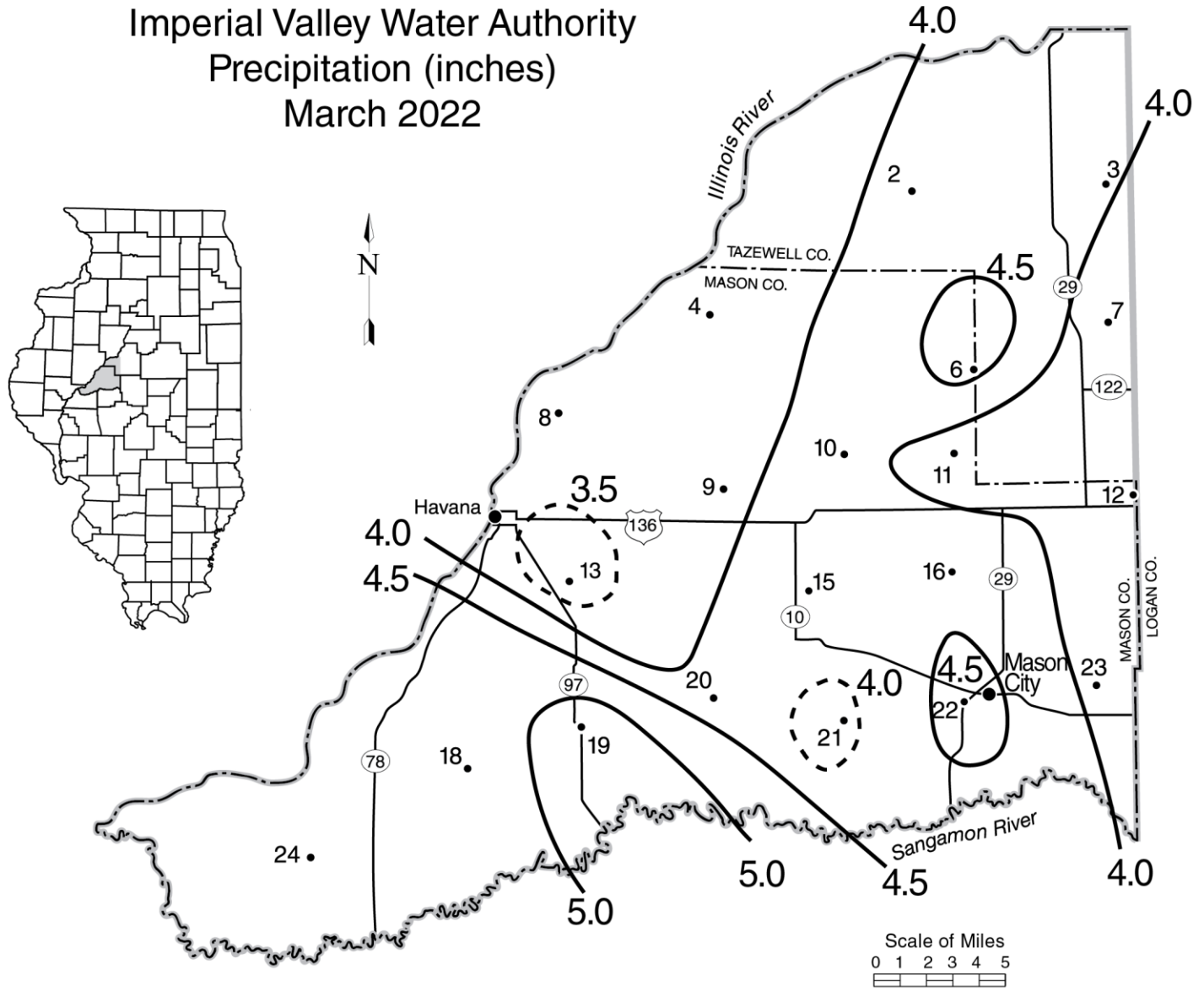
Precipitation data for gages #9 and #12 are downloaded by modem every hour to an Illinois State Water Survey server.

Data Analysis

Rainfall data at gages #8 and #12 were estimated for March 1 – March 11 due to equipment problems.

The average network precipitation for March 2022 was 4.13 inches, which is above the previous 29-year network average. Monthly gage totals varied 2.09 inches across the network, from 3.32 inches at site #13, southeast of Havana, to 5.41 inches at site #19, north of Kilbourne. The 30-year (1991–2020) average precipitation amounts for the month of March at Havana and Mason City are 2.72 and 2.49 inches, respectively. The March 2022 network average of 4.13 inches is 177 percent of the 29-year (1993–2020) IVWA March network average of 2.34 inches. March 2022 was the 5th wettest March in the past 30 years.

Imperial Valley Water Authority Precipitation (inches) March 2022



March 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	0.02	0.11	0.01	0.09	0.10	0.01	0.01	0.10	0.13	0.13	0.01	0.20	0.10	0.16	0.21	0.20	0.02	0.01	-	0.19
6	0.17	0.19	0.14	0.24	0.20	0.08	0.08	0.21	0.22	0.22	0.00	0.33	0.34	0.33	0.33	0.33	-	0.37	0.32	0.34
7	0.11	0.14	0.10	0.14	0.09	0.15	0.27	0.09	0.07	0.07	0.19	0.08	0.10	0.05	0.12	0.08	0.24	0.11	0.09	0.10
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	0.03	-	0.04	0.03	-	0.02	-	0.03	0.01	0.01	0.01	0.02	0.01	0.05	0.11	-	-	0.01	0.08	0.09
11	0.04	0.10	0.07	0.07	-	0.09	0.09	0.04	0.03	0.03	0.02	0.04	0.05	0.08	0.09	0.02	-	0.08	0.16	0.07
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	0.77	0.56	0.80	0.67	0.62	0.92	0.49	0.65	0.57	0.86	0.56	0.73	0.76	0.97	0.95	0.84	1.00	0.89	0.68	0.96
19	0.04	0.07	0.05	0.08	0.05	0.05	0.09	0.03	0.02	0.04	0.07	0.05	0.05	0.08	0.07	0.07	0.10	0.10	0.03	0.03
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	0.09	0.03	0.04	0.09	-	0.08	0.01	0.07	-	-	0.01	0.09	-	0.10	0.10	0.01	-	0.05	0.00	0.06
22	0.40	0.43	0.38	0.44	0.28	0.40	0.21	0.33	0.24	0.17	0.20	0.36	0.23	0.37	0.37	0.17	-	0.41	0.31	0.51
23	0.46	0.29	0.39	0.39	0.20	0.49	0.42	0.36	0.36	0.47	0.45	0.32	0.76	0.36	0.40	0.33	0.55	0.49	0.26	0.24
24	0.04	0.06	0.02	0.03	0.09	0.02	0.09	0.04	0.07	0.12	0.08	0.07	0.09	0.04	0.09	0.07	0.12	0.21	0.15	0.08
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
30	1.88	1.91	1.41	2.27	1.79	1.37	1.82	2.18	1.91	1.40	1.66	1.85	1.71	1.96	2.51	2.01	1.81	2.00	1.74	2.06
31	0.16	0.22	0.09	0.19	0.15	0.06	0.27	0.10	0.11	0.21	0.07	0.06	0.07	0.03	0.06	0.07	0.05	0.04	0.05	0.09
Monthly	4.20	4.09	3.54	4.71	3.56	3.73	3.85	4.24	3.74	3.73	3.32	4.21	4.27	4.57	5.41	4.20	3.88	4.74	3.86	4.82

Network Average = 4.13 Imperial Valley Network March 2022 was the 5th wettest March in the past 30 years.

