



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 February 2022 March 23, 2022

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Raingage Network Operations

On February 28, Erin downloaded the data and weighed and tared the precipitation collections for gages #2, 3, 4, 6, 10, 11, 13, 15, 16, 19.

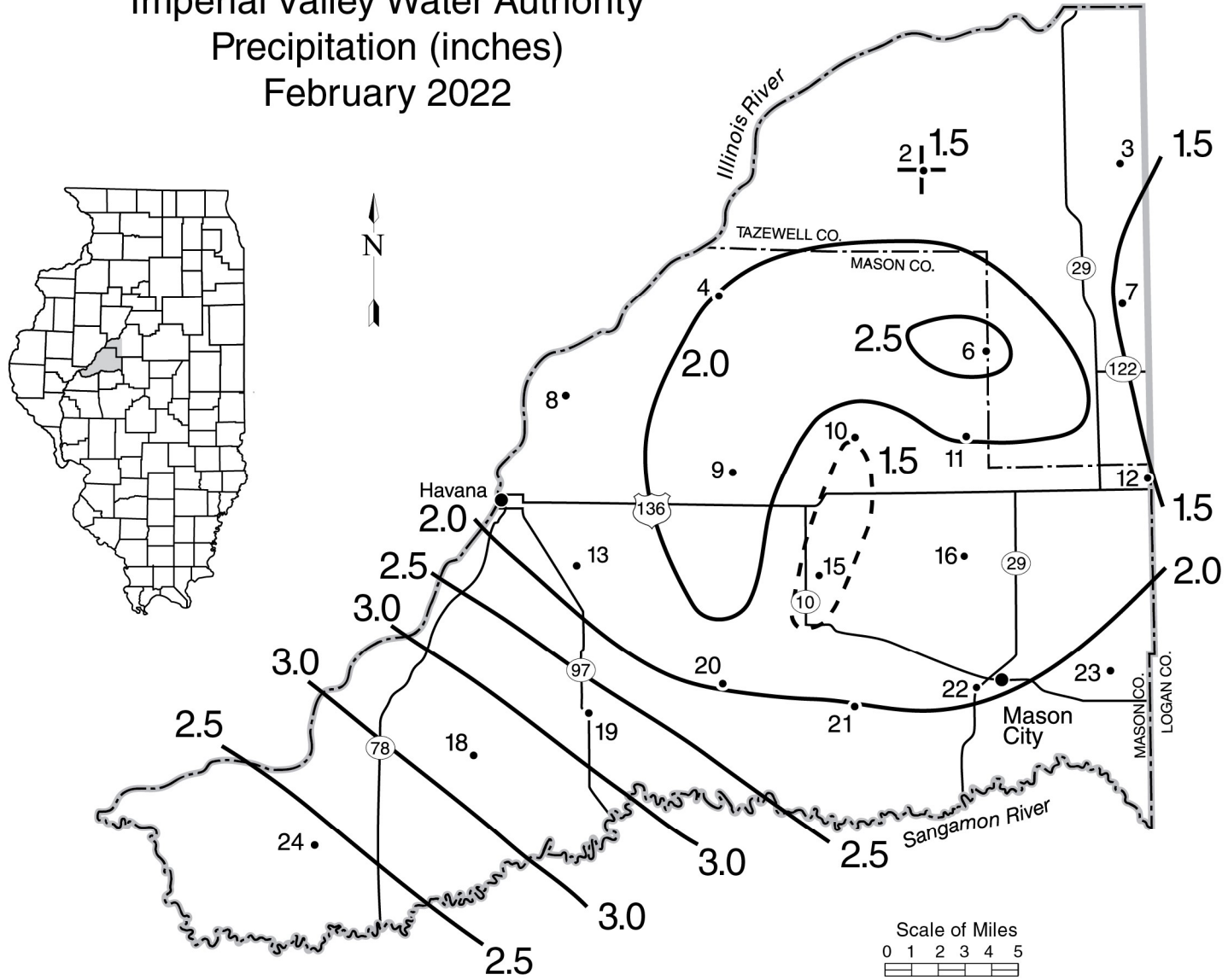
On March 15, Erin downloaded the data and weighed and tared the precipitation collections for gages #18, 20, 21, 22, 23. The bucket tare of the collection at gage #12 was recorded. Gage #8 logger was not responding and was replaced.

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 February 2022 was 2.06 inches, which is above the previous 29-year network average. Monthly gage totals varied 2.14 inches across the network, from 1.36 inches at site #15 north of Easton, to 3.21 inches at site #18 south of the Sand Prairie-Scrub Oak Nature Preserve. The 30-year (1991–2020) average precipitation amounts for the month of February at Havana and Mason City are 2.18 and 1.61 inches, respectively. The February 2022 network average of 2.06 inches is 121 percent of the 29-year (1993–2020) IVWA February network average of 1.70 inches. February 2022 was the 11th wettest February in the past 30 years.

Imperial Valley Water Authority Precipitation (inches) February 2022



February 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	0.23	0.17	0.23	0.24	0.21	NA	0.31	0.24	0.24	0.14	0.06	0.22	0.33	0.41	0.35	0.27	0.16	0.29	0.51	0.23
2	0.22	0.27	0.50	0.62	0.25	NA	0.46	0.20	0.50	0.25	0.24	0.14	0.33	0.83	0.64	0.28	0.69	0.13	0.72	0.22
3	0.05	-	-	0.40	0.02	NA	0.03	0.02	0.02	0.01	0.02	-	0.01	0.05	0.07	0.01	0.19	-	0.09	0.05
4	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	----
5	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	----
6	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	----
7	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	----
8	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	----
9	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	----
10	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	----
11	0.22	0.24	0.20	0.33	0.20	NA	0.35	0.27	0.30	0.18	0.25	0.27	0.28	0.38	0.37	0.23	0.23	0.36	0.31	0.22
12	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	----
13	0.01	-	0.01	0.02	-	NA	0.01	0.02	-	0.04	0.01	0.00	-	-	0.01	-	0.08	0.01	0.01	0.01
14	-	0.01	-	-	-	NA	-	-	-	0.01	-	-	-	-	-	0.00	-	-	0.01	----
15	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	----
16	0.23	0.25	0.20	0.26	0.18	NA	0.24	0.16	0.16	0.14	0.11	0.26	0.31	0.31	0.25	0.35	0.02	0.34	0.34	0.23
17	0.39	0.46	0.73	0.66	0.53	NA	0.94	0.54	0.81	0.61	0.81	0.41	0.64	1.14	1.09	0.60	0.48	0.30	-	0.39
18	-	-	-	-	-	NA	-	-	-	0.01	-	-	-	-	-	-	-	-	-	----
19	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	----
20	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	----
21	0.01	-	-	0.04	-	NA	0.02	-	-	-	0.02	0.01	-	-	0.01	-	0.12	-	0.05	0.01
22	0.07	0.18	0.09	0.08	0.01	NA	0.06	0.03	0.03	0.10	0.01	0.03	0.06	0.05	0.01	0.03	0.07	0.25	0.26	0.07
23	-	-	-	0.01	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	----
24	0.09	0.03	0.04	0.02	-	NA	0.06	0.03	-	0.01	-	0.02	0.01	0.06	0.01	0.01	-	0.04	0.02	0.09
25	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	----
26	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	----
27	-	-	-	-	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	----
28	-	-	-	-	----	NA	-	-	0.01	-	-	-	-	-	-	-	-	-	-	----
Monthly	1.50	1.61	2.00	2.68	1.39	0.00	2.48	1.50	2.07	1.50	1.53	1.36	1.96	3.21	2.81	1.78	2.03	1.71	2.31	2.39
Network Average =	2.06 Imperial Valley Network																			

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