



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 April 2022
May 17, 2022

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Raingage Network Operations

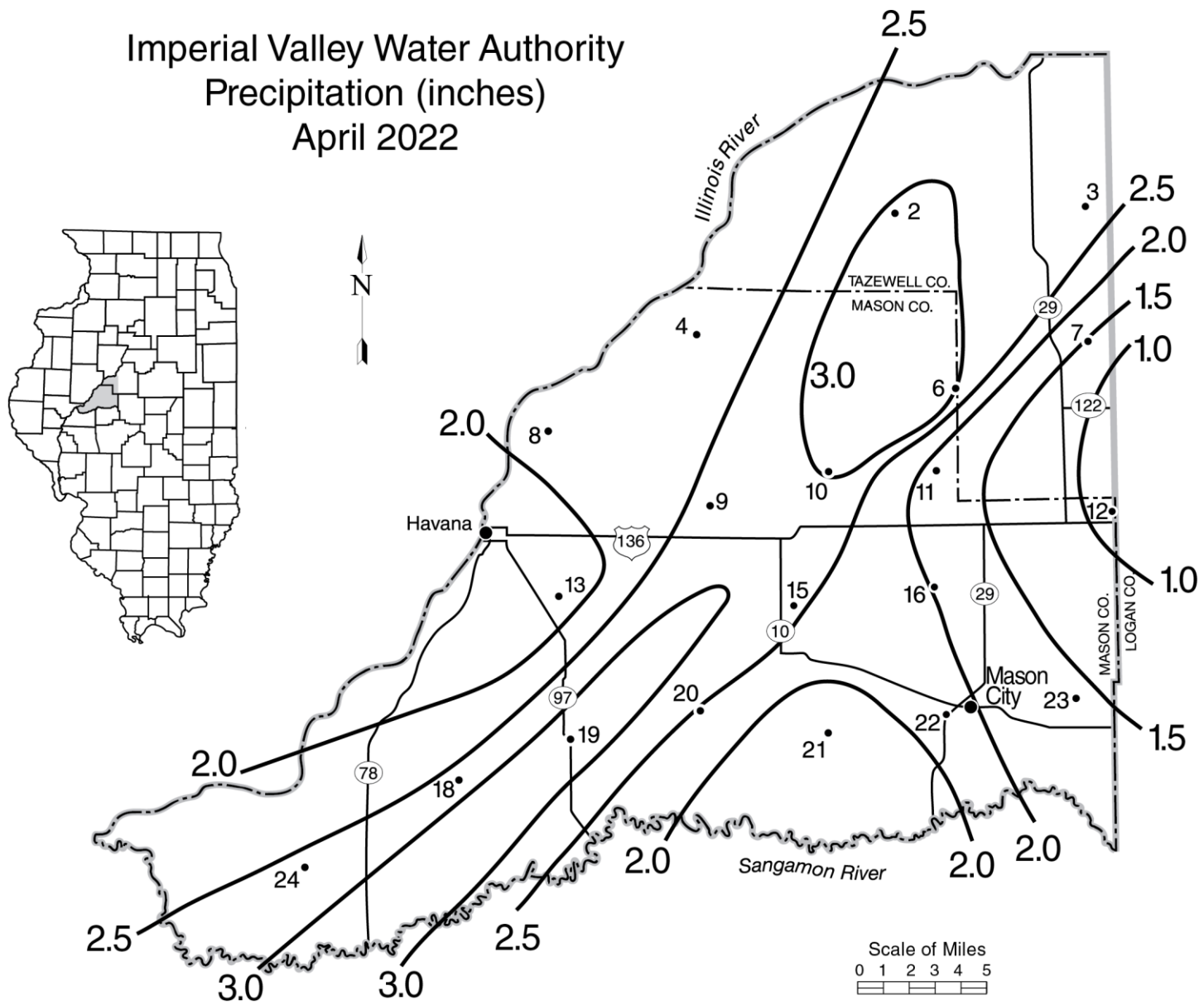
On May 2, Erin downloaded the data, weighed the precipitation collections, and emptied, cleaned, and tared the buckets at all the gages.

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 April 2022 was 2.42 inches, which is below the previous 29-year network average. Monthly gage totals varied 2.56 inches across the network, from 0.86 inches at site #12 at the Mason State Tree Nursery, southeast of Topeka, to 3.42 inches at site #19, north of Kilbourne. The 30-year (1991–2020) average precipitation amounts for the month of April at Havana and Mason City are 4.22 and 3.73 inches, respectively. The April 2022 network average of 2.42 inches is 67 percent of the 29-year (1993–2020) IVWA April network average of 3.60 inches.

Imperial Valley Water Authority Precipitation (inches) April 2022



April 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	0.03	-	0.02	0.04	-	0.02	0.01	0.01	0.02	0.01	0.01	0.02	0.02	0.01	0.02	0.02	-	0.01	0.02	0.01
3	0.01	0.00	-	-	-	-	-	-	-	-	-	0.00	0.01	-	0.00	0.02	-	0.01	-	-
4	-	-	-	0.00	-	-	-	-	-	-	-	0.00	-	-	-	-	-	0.00	-	0.00
5	0.38	0.28	0.17	0.28	0.14	0.24	0.20	0.26	0.18	0.01	0.14	0.23	0.14	0.14	0.18	0.15	0.14	0.13	0.09	0.19
6	0.29	0.41	0.28	0.34	0.34	0.29	0.34	0.25	0.24	0.26	0.28	0.21	0.26	0.14	0.26	0.26	0.18	0.30	0.25	0.28
7	0.04	0.01	-	0.02	0.01	0.01	-	-	-	-	-	0.01	0.00	0.02	0.03	0.01	0.01	0.02	0.01	0.06
8	0.05	0.03	0.01	0.03	-	0.02	0.02	0.02	-	0.02	0.01	0.02	0.00	-	0.03	0.01	-	0.03	0.03	0.00
9	-	0.01	-	-	-	0.01	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-
10	0.02	-	0.03	-	-	-	-	-	0.01	-	-	-	0.01	-	0.01	0.00	-	-	-	0.01
11	0.05	-	0.03	0.01	-	0.01	-	0.02	0.00	-	-	0.01	-	0.01	0.04	-	0.01	0.02	-	0.03
12	0.02	0.02	0.01	0.01	0.02	0.02	0.04	-	-	-	-	0.02	-	0.02	-	0.01	-	-	-	-
13	1.28	1.10	0.70	1.05	0.42	0.71	1.51	1.64	0.57	0.12	0.71	1.20	0.50	1.15	1.69	1.08	0.45	0.61	0.49	1.18
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	0.01	-	0.01	-	0.01	0.01	-	-	0.01	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	0.08	0.01	0.09	0.11	0.02	0.07	0.01	0.09	0.03	0.02	0.02	0.14	0.09	0.24	0.14	0.09	-	0.14	0.14	0.25
18	-	0.06	0.00	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.01	0.01	0.01	0.00	0.03	0.04	-	0.02	0.01	0.00
19	-	0.01	0.01	0.01	0.01	-	-	-	-	-	-	-	0.01	-	-	0.01	-	0.00	-	-
20	0.43	0.47	0.38	0.55	0.41	0.40	0.38	0.44	0.44	0.22	0.35	0.64	0.51	0.65	0.61	0.52	0.32	0.50	0.46	0.61
21	0.08	0.07	0.03	0.05	-	0.02	0.01	0.03	-	-	-	0.01	-	-	0.01	0.00	-	0.00	-	0.02
22	0.02	0.01	0.02	0.03	0.04	0.02	-	0.02	-	0.04	0.01	0.00	-	0.01	-	-	-	0.03	0.02	0.01
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	0.10	0.19	0.10	0.27	0.02	0.02	0.04	0.13	0.11	0.06	0.01	0.11	0.25	0.03	0.07	0.06	0.14	0.09	0.11	0.04
25	-	-	-	-	-	-	-	-	-	0.01	-	-	-	-	-	-	-	-	0.01	-
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	-	-	-	-	0.01	-	-	-	-	-	-	-
28	0.01	0.01	0.03	0.04	0.02	0.03	0.01	0.01	-	0.01	0.01	0.04	0.02	0.06	0.10	0.05	0.09	0.09	0.03	0.09
29	-	-	-	-	-	0.01	-	-	0.01	0.02	-	0.01	0.01	0.03	0.03	0.01	-	0.00	-	0.06
30	0.15	0.25	0.13	0.16	0.02	0.23	0.09	0.11	0.05	0.02	0.13	0.16	0.10	0.10	0.18	0.08	0.14	0.32	0.04	0.08

Monthly 3.05 2.90 2.04 3.04 1.49 2.15 2.69 3.05 1.67 0.86 1.67 2.84 1.95 2.62 3.42 2.43 1.48 2.33 1.70 2.94

Network Average = 2.42 Imperial Valley Network