



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 May 2021
June 15, 2021

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

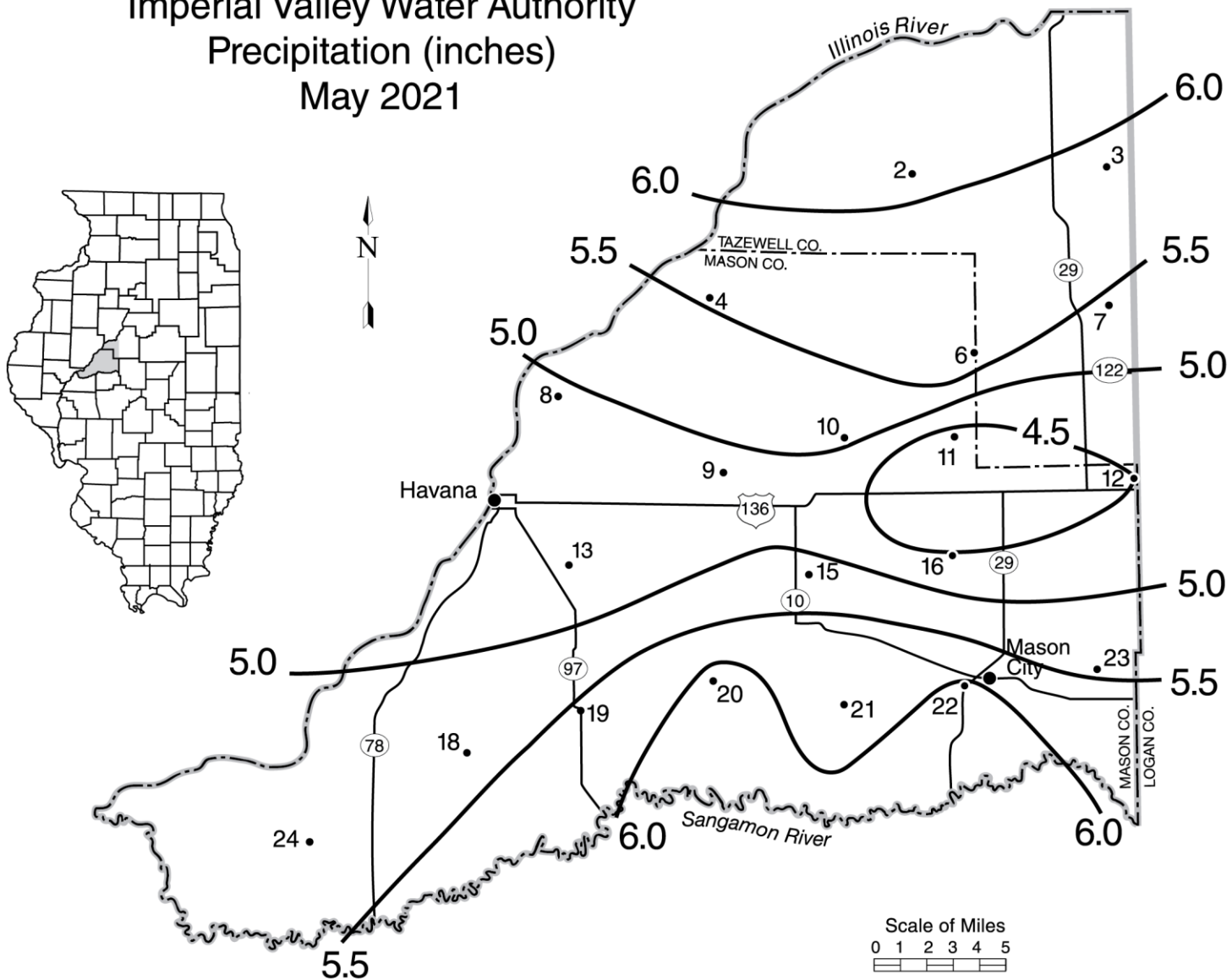
On June 3, Erin downloaded the data, weighed the precipitation collections, and emptied, cleaned, and tared the buckets for all gages except gage #12.

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 May 2021 was 5.28 inches, which is above the previous 28-year network average. Monthly gage totals varied 2.07 inches across the network, from 4.11 inches at site #11, west-northwest of San Jose, to 6.18 inches at site #2, north of Manito. The National Centers for Environmental Information (NCEI) issued the new 30-year (1991-2020) average precipitation amounts in May 2021. The 30-year (1991-2020) average precipitation amounts for the month of May at Havana and Mason City are 5.08 and 4.47 inches, respectively. The May 2021 network average of 5.28 inches is 124 percent of the 28-year (1993–2020) IVWA May network average of 4.27 inches. This was the eighth wettest May in the past 29 years.

Imperial Valley Water Authority Precipitation (inches) May 2021



May 2021 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	----	----	----	----	----	----	0.02	----	----	----	----	0.01	----	0.01	0.02	0.01	0.01	0.02	----	----
3	0.75	0.63	0.52	0.68	0.55	0.41	0.44	0.48	0.39	0.33	0.30	0.48	0.35	0.65	0.84	1.06	0.91	0.92	0.87	0.64
4	----	----	----	0.01	----	----	----	----	----	0.01	----	0.01	----	----	0.01	----	----	0.05	0.07	0.01
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
6	0.01	0.02	0.01	0.01	0.01	----	----	----	----	----	0.01	0.01	0.01	0.02	0.01	----	0.02	----	0.01	----
7	0.01	0.01	0.03	0.01	----	0.02	----	0.01	----	----	----	----	0.02	----	----	0.01	----	0.01	----	----
8	0.28	0.36	0.31	0.34	0.38	0.23	0.01	0.27	0.30	0.22	0.02	0.28	0.23	0.44	0.28	0.24	0.06	0.19	0.23	0.38
9	1.41	1.35	1.39	1.86	1.17	1.38	1.50	1.14	1.22	1.25	1.59	1.14	1.26	1.40	1.24	1.35	2.04	1.48	1.56	1.41
10	0.10	0.01	----	----	0.08	0.03	----	0.04	0.01	0.02	----	0.01	0.01	----	0.01	----	----	0.01	----	----
11	0.01	0.01	----	0.01	----	----	----	0.01	----	----	----	----	0.01	----	----	----	----	0.01	0.02	----
12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
15	0.16	0.12	0.20	0.09	0.09	0.25	0.03	0.09	0.04	0.02	0.01	0.09	0.06	0.06	0.02	0.02	----	0.06	----	0.07
16	0.08	0.06	0.09	0.14	0.14	0.13	0.11	0.15	0.14	0.04	0.16	0.18	0.09	0.30	0.25	0.13	0.13	0.23	0.14	0.43
17	1.51	1.51	0.82	0.82	1.15	0.92	0.66	0.73	0.68	0.84	0.79	0.69	0.62	0.44	0.75	0.74	0.70	0.84	0.77	0.42
18	1.26	1.10	1.60	1.24	1.18	1.10	1.39	0.84	0.82	1.15	1.07	0.76	1.01	0.95	0.95	0.90	0.88	1.09	0.82	0.90
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
25	0.01	----	----	0.01	0.01	----	----	----	----	0.01	----	0.03	----	0.02	----	----	----	0.07	----	----
26	0.07	0.17	0.01	0.07	0.20	0.02	----	0.03	0.02	0.01	----	0.07	0.16	0.05	0.17	0.37	0.07	0.12	0.30	0.07
27	0.29	0.31	0.17	0.35	0.18	0.25	0.28	0.86	0.36	0.37	0.40	1.01	0.52	0.78	0.91	1.09	0.70	0.58	0.24	0.80
28	0.21	0.15	0.39	0.15	0.15	0.17	0.28	0.41	0.12	0.18	0.18	0.33	0.16	0.08	0.12	0.21	0.32	0.43	0.31	0.08
29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
31	0.02	----	----	0.01	0.02	0.02	0.02	0.02	0.01	----	0.02	----	0.02	0.01	0.01	0.01	----	----	0.01	0.02
Monthly	6.18	5.81	5.54	5.80	5.31	4.93	4.74	5.08	4.11	4.45	4.55	5.10	4.51	5.23	5.59	6.13	5.85	6.10	5.36	5.23

Network Average = 5.28 Imperial Valley Network