



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 December 2020
January 13, 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

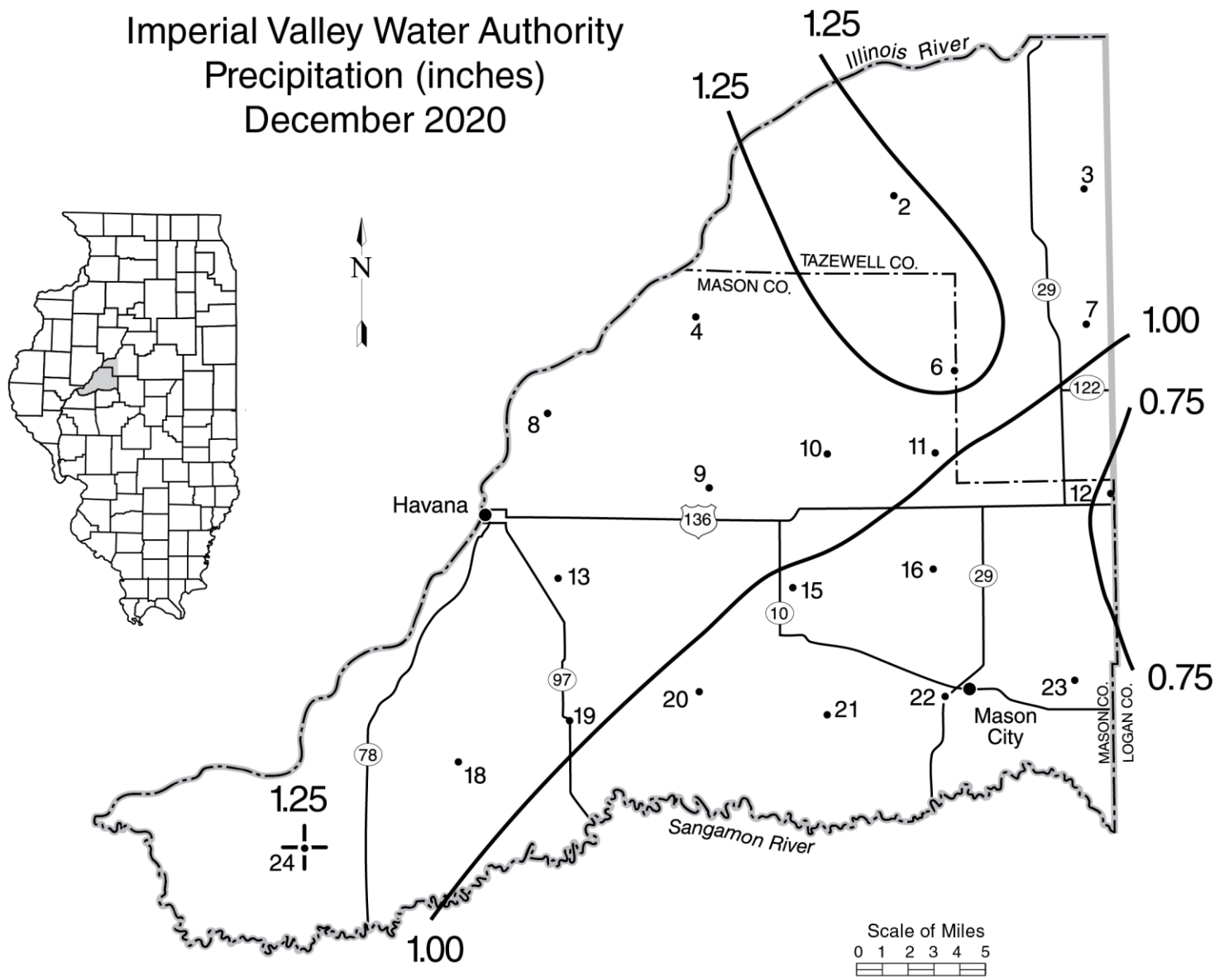
On January 2, Erin downloaded the data and weighed the precipitation collections for all gages, except for gages #9 and #12.

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 December 2020 was 1.04 inches, which is well below the previous 28-year network average. Monthly gage totals varied 0.61 inches across the network, from 0.72 inches at site #12, north of San Jose, to 1.33 inches at site #6, southeast of Manito. The 1981–2010 30-year average precipitation amounts for December at Havana and Mason City are 2.76 and 2.33 inches, respectively. The December 2020 network average of 1.04 inches is 53 percent of the 28-year (1992–2019) IVWA December network average of 1.98 inches.

Imperial Valley Water Authority Precipitation (inches) December 2020



December 2020 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	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
11	0.63	0.55	0.64	0.86	0.65	0.62	0.77	0.61	0.68	0.40	0.59	0.60	0.58	0.73	0.69	0.66	0.61	0.50	0.31	0.82
12	0.11	0.11	0.06	0.12	0.16	0.08	0.11	0.08	0.12	0.21	0.06	0.05	0.13	0.02	0.06	0.07	0.10	0.20	0.25	----
13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
23	0.05	0.07	0.11	0.03	0.02	----	----	0.03	----	----	----	0.03	0.01	0.06	0.04	----	----	0.06	0.04	0.13
24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
29	0.11	0.05	0.04	0.05	0.05	0.09	0.05	0.05	0.02	0.01	----	0.06	0.02	0.02	----	0.01	----	0.02	----	0.03
30	0.38	0.33	0.37	0.27	0.22	0.39	0.28	0.23	0.20	0.10	0.18	0.23	0.22	0.24	0.26	0.19	0.16	0.20	0.20	0.27
31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Monthly	1.28	1.11	1.22	1.33	1.10	1.18	1.21	1.00	1.02	0.72	0.83	0.97	0.96	1.07	1.05	0.93	0.87	0.98	0.80	1.25

Network Average = 1.04 Imperial Valley Network