



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 2019
January 15, 2019

Erin Bauer, Kevin Rennels, and Steve Wilson

Phone: (217) 300-3471; (866) 292-7305 (toll-free); (217) 333-8466; (217) 333-0956

E-mail: ebauer@illinois.edu

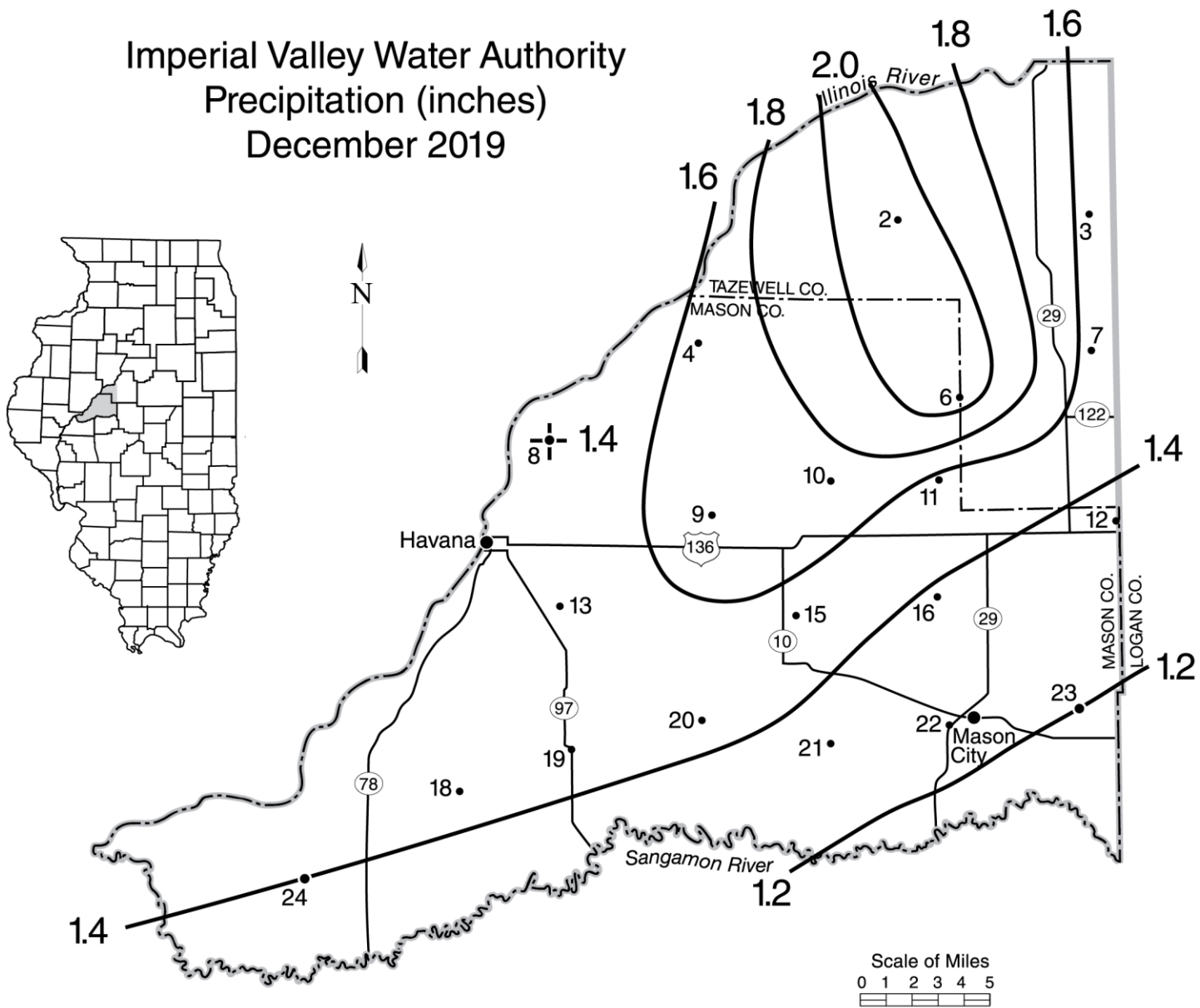
Raingage Network Operations

On January 8, Erin Bauer downloaded the data. All buckets were weighed, except for gages on modems, gages #9 and #12. All gages operated properly during the month.

Data Analysis

The average network precipitation for December 2019 was 1.55 inches, which is below the previous 27-year network average. The largest monthly gage totals were in the northern part of the network. Monthly gage totals varied 0.93 inches across the network, from 1.20 inches at site #23, east of Mason City, to 2.13 inches at site #2, north 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 2019 network average of 1.55 inches is 78 percent of the 27-year (1992–2018) IVWA December network average of 1.99 inches.

Imperial Valley Water Authority Precipitation (inches) December 2019



December 2019 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	0.11	0.11	0.06	0.14	0.08	0.08	0.12	0.08	0.07	0.05	0.08	0.11	0.10	0.07	0.07	0.09	0.08	0.12	0.09	0.07
2	----	----	----	0.01	0.02	----	0.01	----	----	0.01	----	----	0.01	0.01	0.02	0.01	----	0.01	0.02	----
3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
9	0.02	----	0.01	0.02	----	0.01	0.02	----	0.01	0.02	----	0.01	----	0.01	0.01	----	----	0.02	0.01	----
10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
15	0.20	0.08	0.16	0.16	0.09	0.15	0.19	0.11	0.18	0.14	0.13	0.10	0.12	0.12	0.20	0.10	0.16	0.07	0.05	0.22
16	0.02	0.09	----	0.02	0.03	0.03	0.01	0.03	0.02	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.02	0.04	0.03	----
17	----	----	----	----	----	----	----	----	----	----	----	----	----	0.01	----	----	----	----	----	----
18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
27	----	0.02	----	0.02	0.01	0.01	----	----	----	----	0.01	----	----	----	----	0.01	----	----	----	----
28	0.74	0.42	0.38	0.91	0.57	0.17	0.43	0.57	0.72	0.51	0.22	0.58	0.61	0.25	0.34	0.53	0.55	0.60	0.46	0.27
29	1.03	0.82	0.99	0.83	0.74	0.95	0.88	0.88	0.59	0.55	1.01	0.76	0.50	0.95	0.86	0.76	0.49	0.63	0.54	0.84
30	0.01	0.02	0.03	0.01	0.02	----	0.01	0.01	----	0.07	0.01	----	0.02	0.04	0.01	0.01	----	----	----	----
31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Monthly	2.13	1.56	1.63	2.12	1.56	1.40	1.67	1.68	1.59	1.36	1.48	1.58	1.38	1.47	1.52	1.52	1.30	1.49	1.20	1.40

Network Average = 1.55 Imperial Valley Network