



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 August 2019
September 24, 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 August 21, Erin Bauer and Hayden Wennerdahl moved Gages #2, #6, #11, and #21 to new, nearby locations. These gages and gage #21 were calibrated with coefficients of 0.99998, 1.00000, 0.99998, 1.00000, and 0.99999, respectively.

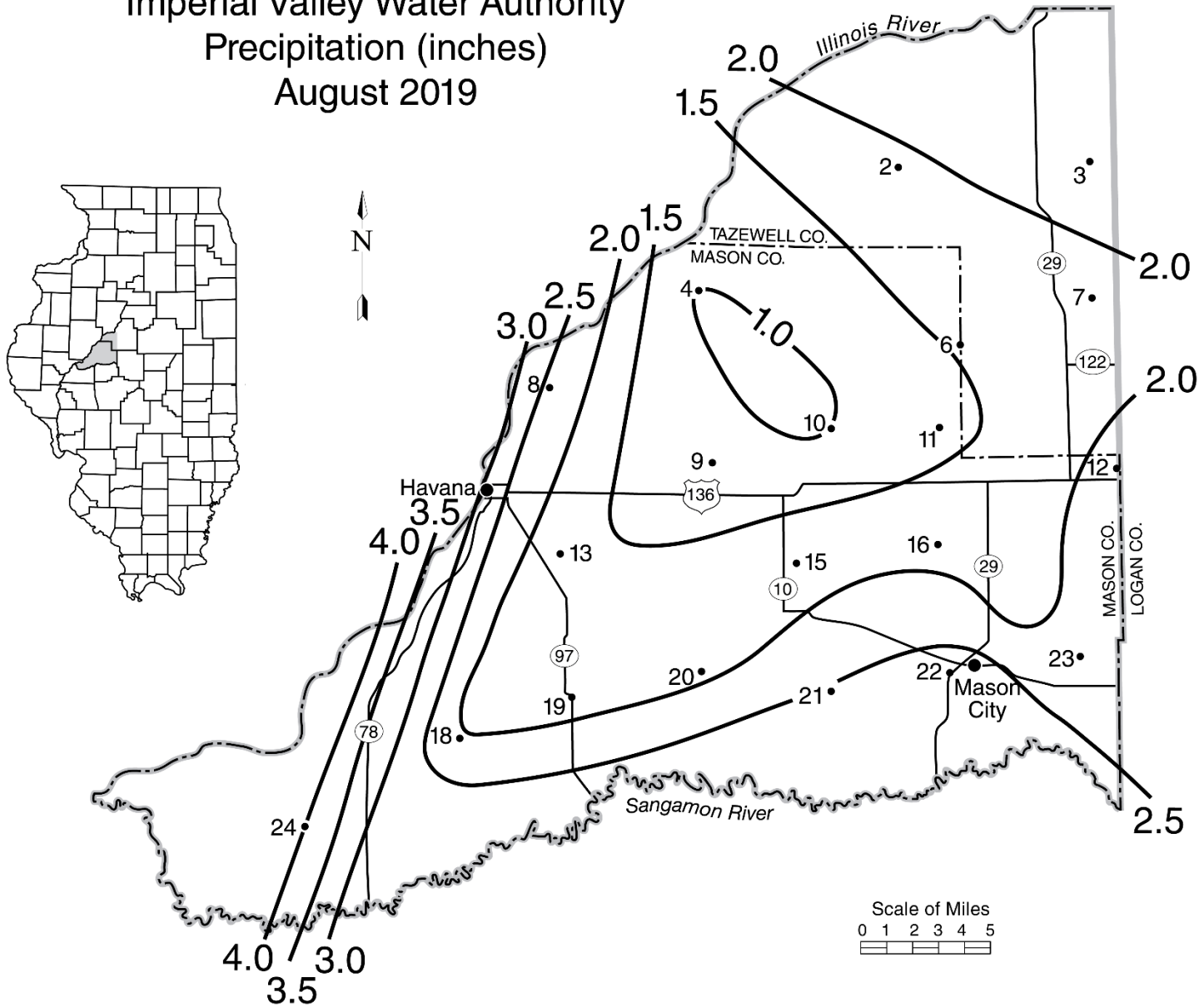
On September 3 and 4, 2019, Erin Bauer serviced all gages and downloaded the digital data. All buckets were weighed and emptied.

Also on September 3, Erin Bauer moved gages #19 and #20 to new, nearby locations. These gages calibrated with coefficients of 0.99998 and 1.00000, respectively. Gages at sites #18, #21, #22, and #23 were also calibrated with coefficients of 0.99999, 0.99998, and 0.99995, respectively.

Data Analysis

The average network precipitation for August 2019 was 1.94 inches, which is well below the previous 26-year network average. The largest monthly gage total was in the southwest corner of the network. Monthly gage totals varied 3.01 inches across the network, from 1.00 inch at site #4, northeast of Goofy Ridge, to 4.01 inches at site #24, southeast of Snicarte. The 1981–2010 30-year average precipitation amounts for July at Havana and Mason City are 3.76 and 3.29 inches, respectively. The August 2019 network average of 1.94 inches is 57 percent of the 26-year (1993–2018) IVWA August network average of 3.39 inches.

Imperial Valley Water Authority Precipitation (inches) August 2019



August 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	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
6	0.27	0.77	0.15	0.14	0.29	0.63	0.23	0.12	0.12	0.40	0.20	0.09	0.10	0.12	0.10	0.08	0.18	0.23	0.10	0.15	
7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
11	0.29	0.32	0.06	0.18	0.25	0.06	----	----	0.12	0.18	0.01	----	0.02	0.01	----	0.05	----	----	----	0.10	
12	0.15	0.15	0.11	0.14	0.11	0.12	0.11	0.09	0.11	0.11	0.15	0.13	0.12	0.41	0.35	0.16	0.13	0.12	0.05	0.77	
13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
17	0.23	0.27	0.04	0.06	0.16	0.05	0.08	0.06	0.07	0.64	0.27	0.48	0.70	0.51	0.48	0.65	0.99	1.19	0.85	1.00	
18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
19	0.02	0.01	----	----	0.01	0.02	----	----	----	----	----	0.01	----	----	0.01	----	----	----	----	----	
20	0.19	0.27	0.22	0.22	0.23	0.27	0.53	0.37	0.18	0.43	0.46	0.47	0.20	0.48	0.45	0.49	0.50	0.64	0.62	0.72	
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	0.01	
22	0.09	0.01	----	0.02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
25	0.04	0.02	0.01	----	0.01	----	----	----	----	----	0.21	0.02	----	----	0.01	----	0.04	0.01	----	0.02	
26	0.54	0.66	0.41	0.76	0.52	1.31	0.29	0.37	0.70	0.39	0.32	0.46	0.65	0.48	0.42	0.37	0.74	0.47	0.43	1.24	
27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
29	----	----	----	----	0.03	0.02	0.01	----	0.01	----	0.02	0.03	0.03	----	0.04	----	0.01	0.03	0.01	----	
30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Monthly	1.82	2.48	1.00	1.52	1.61	2.48	1.25	1.01	1.31	2.15	1.64	1.69	1.82	2.01	1.86	1.80	2.59	2.69	2.06	4.01	
Network Average =	1.94		Imperial Valley Network																		