



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 March 2019

April 10, 2019

Erin Bauer, Dana Grabowski, 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; dgrabows@illinois.edu

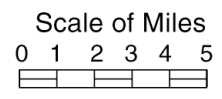
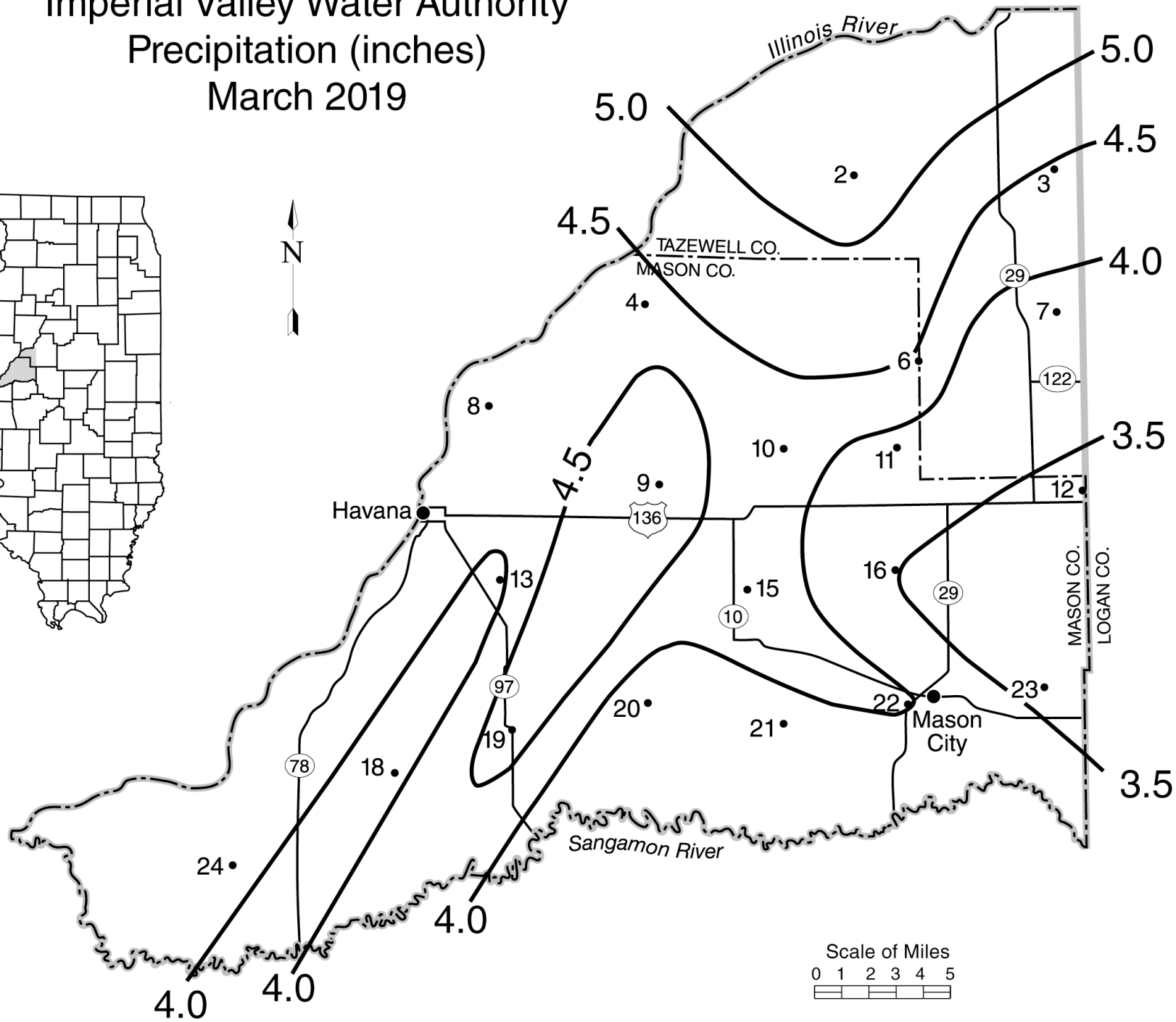
Raingage Network Operations

On April 1, 2019, Dana Grabowski serviced all gages and downloaded the digital data. All of the buckets were weighed and the new tare weight for each bucket was recorded.

Data Analysis

The average network precipitation for March 2019 was 4.11 inches, which is well above the previous 26-year network average. The largest monthly gage total was in the northern portion of the network. Monthly gage totals varied 1.96 inches across the network, from 3.32 inches at site #23, between Mason City and New Holland, to 5.28 inches at site #2, north of Manito. The 1981–2010 30-year average precipitation amounts for March at Havana and Mason City are 2.81 and 2.49 inches, respectively. The March 2019 network average of 4.11 inches is 158 percent of the 26-year (1993–2017) IVWA March network average of 2.19 inches.

Imperial Valley Water Authority Precipitation (inches) March 2019



March 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	0.01	----	----	0.02	----	----	0.02	----	----	0.01	0.01	----	0.01	----	0.06	----	0.02	----	----	0.05	
4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
7	0.06	----	0.01	0.02	----	0.02	0.03	----	----	0.01	0.04	0.01	0.01	0.01	0.06	0.01	----	0.04	0.01	0.10	
8	0.01	----	0.01	0.02	0.01	0.01	0.01	0.01	----	----	0.01	0.01	----	----	0.02	0.01	0.01	0.01	0.01	----	
9	1.81	1.63	1.82	1.66	1.40	1.50	1.75	1.65	1.73	1.45	1.68	1.66	1.57	1.70	1.66	1.63	1.50	1.56	1.30	1.59	
10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
12	----	----	----	----	----	0.01	----	----	----	----	----	----	----	----	0.05	----	----	----	----	0.03	
13	0.52	0.37	0.29	0.37	0.14	0.37	0.38	0.34	0.32	0.32	0.34	0.37	0.37	0.27	0.31	0.26	0.30	0.43	0.28	0.40	
14	0.23	----	0.02	0.07	0.04	----	0.21	0.01	----	----	0.10	0.01	----	0.18	0.21	0.04	----	----	0.12	0.04	
15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
20	0.19	0.22	0.14	0.22	0.18	0.16	0.11	0.11	----	0.03	0.03	0.12	0.06	0.01	0.12	----	0.12	0.16	0.01	0.11	
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
23	----	----	----	----	----	0.01	----	----	----	----	----	----	----	----	----	----	----	----	----	0.02	
24	0.78	0.72	0.53	0.62	0.52	0.43	0.69	0.47	0.40	0.32	0.38	0.48	0.38	0.19	0.63	0.45	0.37	0.31	0.18	0.24	
25	0.02	0.12	0.08	0.22	0.08	0.08	0.10	0.20	0.20	0.03	0.10	0.22	0.01	0.09	0.16	0.15	0.06	0.03	----	0.09	
26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
27	0.15	0.15	0.04	0.01	0.09	----	----	----	----	0.01	----	----	----	----	0.02	----	----	----	----	----	
28	0.09	0.06	0.05	0.14	0.08	0.18	0.15	0.18	0.04	0.20	0.09	0.35	0.29	0.30	0.40	0.12	0.38	0.48	0.32	0.65	
29	0.76	0.54	0.81	0.54	0.58	0.91	0.64	0.63	0.56	0.50	0.58	0.51	0.45	0.40	0.64	0.43	0.50	0.48	0.50	0.32	
30	0.65	0.67	0.58	0.57	0.67	0.47	0.62	0.59	0.61	0.54	0.61	0.59	0.36	0.59	0.46	0.57	0.61	0.56	0.59	0.62	
31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Monthly	5.28	4.48	4.38	4.48	3.79	4.15	4.71	4.19	3.86	3.42	3.97	4.33	3.51	3.74	4.80	3.67	3.87	4.06	3.32	4.26	
Network Average =	4.11		Imperial Valley Network																		