

## OPERATION OF THE IMPERIAL VALLEY WATER AUTHORITY (IVWA) PRECIPITATION NETWORK

Monthly Progress Report for May 2017

June 9, 2017

Erin Bauer and Dana Grabowski

Phone: (866) 292-7305 (toll-free); E-mail: ebauer@illinois.edu; dgrabows@illinois.edu

Kevin Rennels and Steve Wilson

Phones: (217) 333-8466; 333-0956

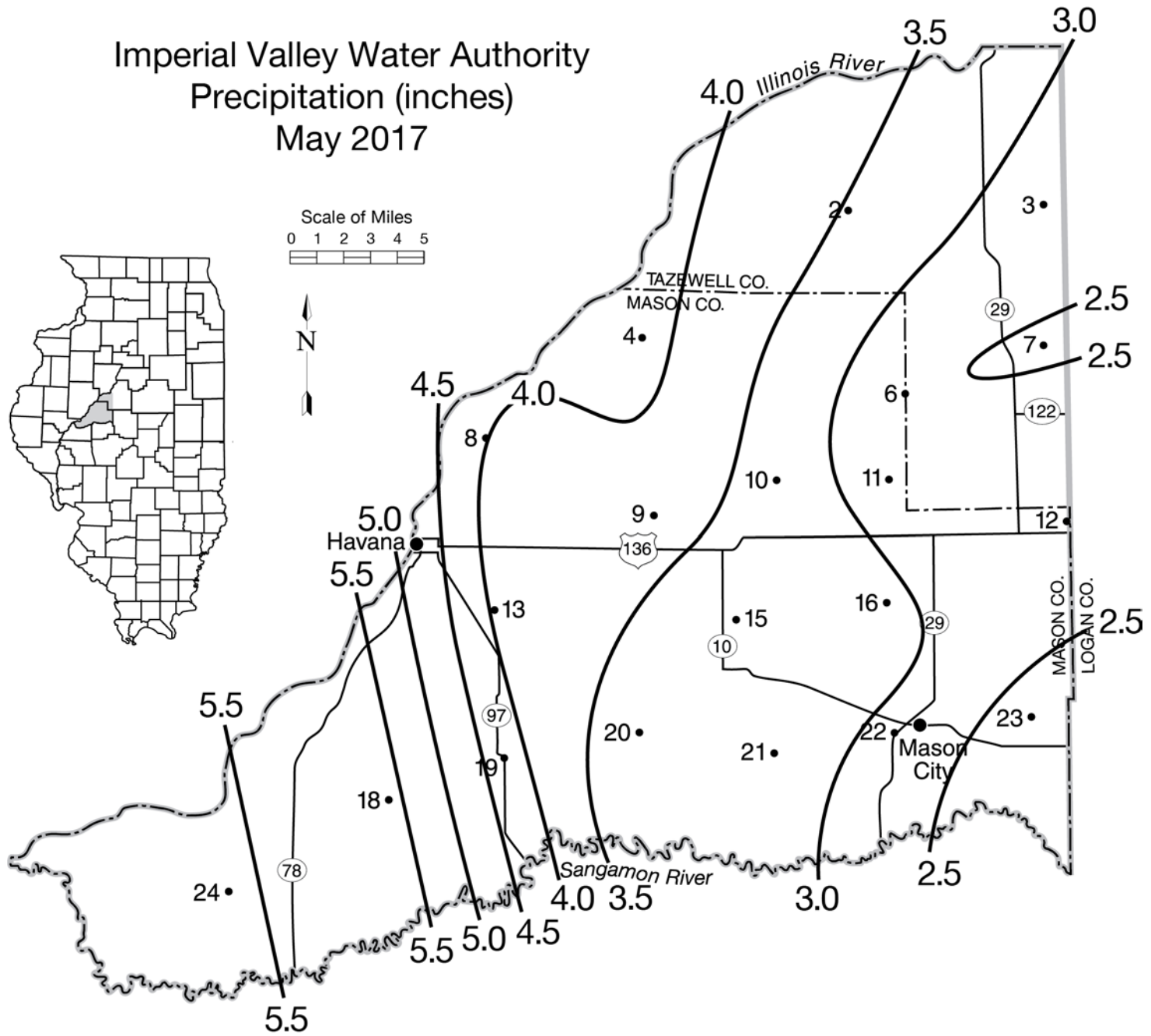
### Raingage Network Operations

Dana Grabowski serviced all gages and downloaded the May 2017 digital data on May 1, 2017. During the site visits, Dana weighed collections and emptied and cleaned all of the buckets. The gage at site 3 was leveled. Calibration checks were performed at sites 2, 3, and 4. Ants were cleaned out of gage at site 6, and ant traps were deployed.

### Data Analysis

Average network precipitation during May 2017 was 3.45 inches, below average. Total monthly precipitation amounts were largest along the southwestern corner of the network. The smallest gage totals were along the eastern edge of the IVWA boundary. Monthly gage totals varied 3.41 inches across the network, from 2.27 inches (site 23) east of Mason City to 5.68 inches (site 18) near Snicarte. The 1981–2010, 30-year average precipitation amounts for May at Havana and Mason City are 4.79 and 4.07 inches, respectively. The May 2017 network average of 3.45 inches is about 82 percent of the 24-year (1993-2016) IVWA May network average of 4.21 inches.

# Imperial Valley Water Authority Precipitation (inches) May 2017



May 2017 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	0.07	0.06	0.06	0.02	----	0.03	----	0.03	0.09	0.02	0.14	----	0.01	0.02	0.02	----	0.02	----	0.02	0.03	
2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
3	0.07	----	0.08	0.07	----	0.08	0.11	0.09	0.09	0.05	0.27	0.13	0.11	0.21	0.18	0.12	0.14	0.10	0.12	0.21	
4	0.15	0.19	0.13	0.19	0.20	0.12	0.15	0.18	0.19	0.21	0.08	0.20	0.11	0.15	0.14	0.18	0.21	0.12	0.25	0.16	
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
10	0.29	0.27	0.39	0.27	0.28	0.37	0.52	0.53	0.23	0.60	0.31	0.59	0.52	1.08	0.47	0.24	0.45	0.48	0.16	0.79	
11	0.01	0.02	0.02	0.05	0.01	0.02	0.02	0.01	0.01	0.02	0.01	0.01	----	----	0.03	0.02	0.01	----	0.01	0.01	
12	----	0.01	----	----	0.01	----	----	----	----	0.01	----	----	----	----	----	----	----	----	0.01	0.01	
13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
17	----	0.27	0.01	----	0.02	0.05	0.01	----	0.01	----	0.07	----	----	0.03	----	----	0.06	0.01	----	----	
18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
19	1.20	0.82	1.02	0.83	0.85	1.05	1.37	1.12	1.05	1.10	1.32	1.05	1.30	2.13	1.76	1.08	1.30	1.17	0.72	2.21	
20	0.57	0.48	0.79	0.47	0.51	1.02	0.67	0.51	0.44	0.46	0.74	0.52	0.44	0.90	0.67	0.54	0.47	0.50	0.56	1.00	
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	0.01	----	----	0.03	----	----	
22	0.23	0.25	0.24	0.32	0.28	0.28	0.44	0.37	0.24	0.18	0.41	0.31	0.37	0.42	0.35	0.32	0.32	0.22	0.19	0.39	
23	0.75	0.27	1.20	0.32	0.27	0.73	0.55	0.44	0.28	0.21	0.54	0.36	0.32	0.53	0.59	0.55	0.29	0.20	0.20	0.46	
24	----	----	----	----	----	----	----	----	0.05	----	----	----	----	0.16	----	----	----	----	----	0.20	
25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
26	0.14	0.11	0.18	----	0.02	0.16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
30	----	----	----	----	----	----	----	----	----	----	----	0.03	0.01	0.05	0.05	----	0.02	0.02	----	----	
31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Monthly	3.48	2.75	4.12	2.54	2.45	3.91	3.84	3.28	2.68	2.86	3.89	3.20	3.19	5.68	4.26	3.06	3.29	2.82	2.27	5.47	
Network Average =	3.45		Imperial Valley Network																		