

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

Monthly Progress Report for March 2017

April 9, 2017

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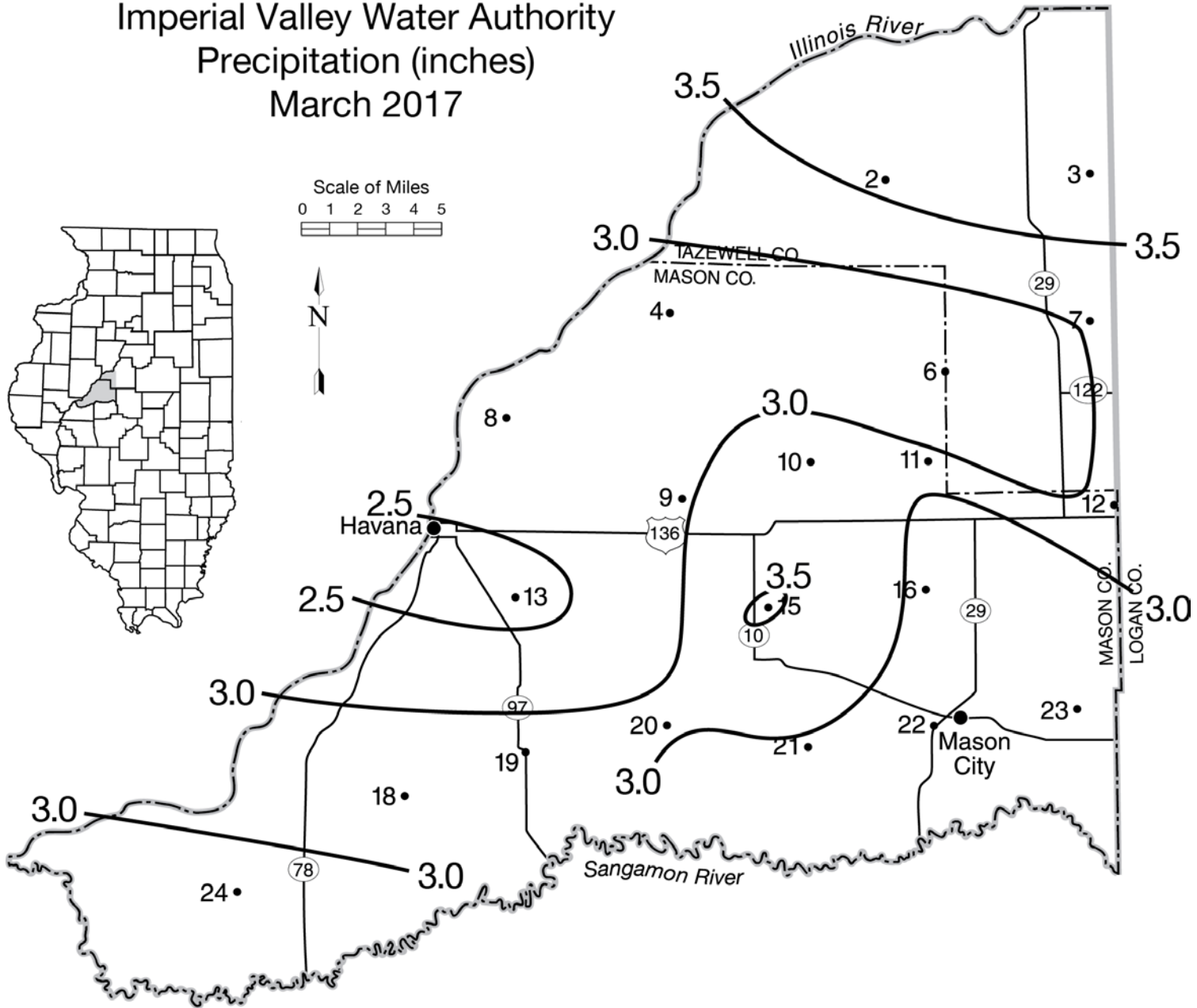
### Raingage Network Operations

Dana Grabowski serviced all gages and downloaded the March 2017 digital data on April 4, 2017. During the site visits, Dana weighed collections and emptied and cleaned all of the buckets. The evaporation pans were reinstalled at all sites. A new ant trap was placed inside the gage at site 8. Most gages and data loggers operated properly. The site 13 gage was checked to determine the cause of noisy data. Calibration was performed with a correlation coefficient of 1.0000, perfect.

### Data Analysis

Precipitation during March 2017 was well above average. Precipitation amounts were largest along the northern edge of the network and a region in the center of Mason County, northeast of Easton, IL. The smallest gage totals were along the western edge of Mason County. Monthly gage totals varied 1.26 inches across the network, from 2.33 inches (site 13) east of Havana to 3.59 inches north of Manito (site 2). 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 2017 network average of 3.03 inches is about 143 percent of the 24-year (1993-2016) IVWA March network average of 2.11 inches.

# Imperial Valley Water Authority Precipitation (inches) March 2017



March 2017 Daily and Monthly Precipitation Amounts (inches), Imperial Valley Network

Site

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	0.06	----	0.06	0.07	0.07	0.08	0.11	0.08	0.04	0.07	0.13	0.10	0.08	0.21	0.16	0.15	0.11	0.19	0.17	0.17
2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
6	0.02	----	0.08	----	----	0.11	0.12	0.16	0.03	----	0.26	0.15	0.03	0.18	0.13	0.09	0.02	----	----	0.16
7	0.35	0.52	0.25	0.15	0.27	0.27	0.32	0.33	0.31	0.36	0.25	0.34	0.24	0.29	0.27	0.36	0.43	0.22	0.39	0.27
8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
13	0.34	0.40	0.12	0.09	0.04	0.14	0.18	0.10	0.15	0.10	0.22	0.17	0.15	0.19	0.25	0.09	0.11	0.11	----	0.02
14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
17	0.29	0.15	0.03	0.18	0.11	0.12	0.06	0.01	----	0.02	0.01	0.19	0.07	0.05	0.09	0.05	0.11	0.13	0.02	----
18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
23	0.01	0.01	0.03	0.04	----	0.07	0.04	0.05	----	----	----	0.18	0.09	0.10	0.15	0.01	0.05	----	----	0.04
24	0.03	----	0.03	----	----	0.15	0.01	----	----	----	----	----	----	----	----	----	----	----	----	----
25	0.69	0.56	0.50	0.59	0.33	0.52	0.51	0.57	0.58	0.41	0.19	0.58	0.60	0.67	0.49	0.56	0.59	0.49	0.43	0.38
26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
27	0.17	0.12	0.16	0.18	0.25	0.21	0.17	0.29	0.16	0.15	0.18	0.22	0.16	0.20	0.15	0.16	0.14	0.14	0.13	0.17
28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
29	0.41	0.58	0.51	0.31	0.67	0.53	0.44	0.45	0.52	0.41	0.47	0.54	0.55	0.52	0.47	0.50	0.43	0.47	0.32	0.51
30	1.15	1.06	0.81	1.16	1.23	0.74	0.94	1.15	1.22	1.49	0.60	1.01	0.95	0.94	1.03	1.01	0.93	0.92	1.47	0.83
31	0.07	0.11	0.05	0.02	0.04	0.03	0.06	0.05	0.02	0.02	0.02	0.04	0.01	0.08	0.06	0.03	0.05	0.05	0.01	0.11

Monthly 3.59 3.51 2.63 2.79 3.01 2.97 2.96 3.24 3.03 3.03 2.33 3.52 2.93 3.43 3.25 3.01 2.97 2.72 2.94 2.66

Network Average = 3.03 Imperial Valley Network