

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

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

Monthly Progress Report for January 2016

February 8, 2015

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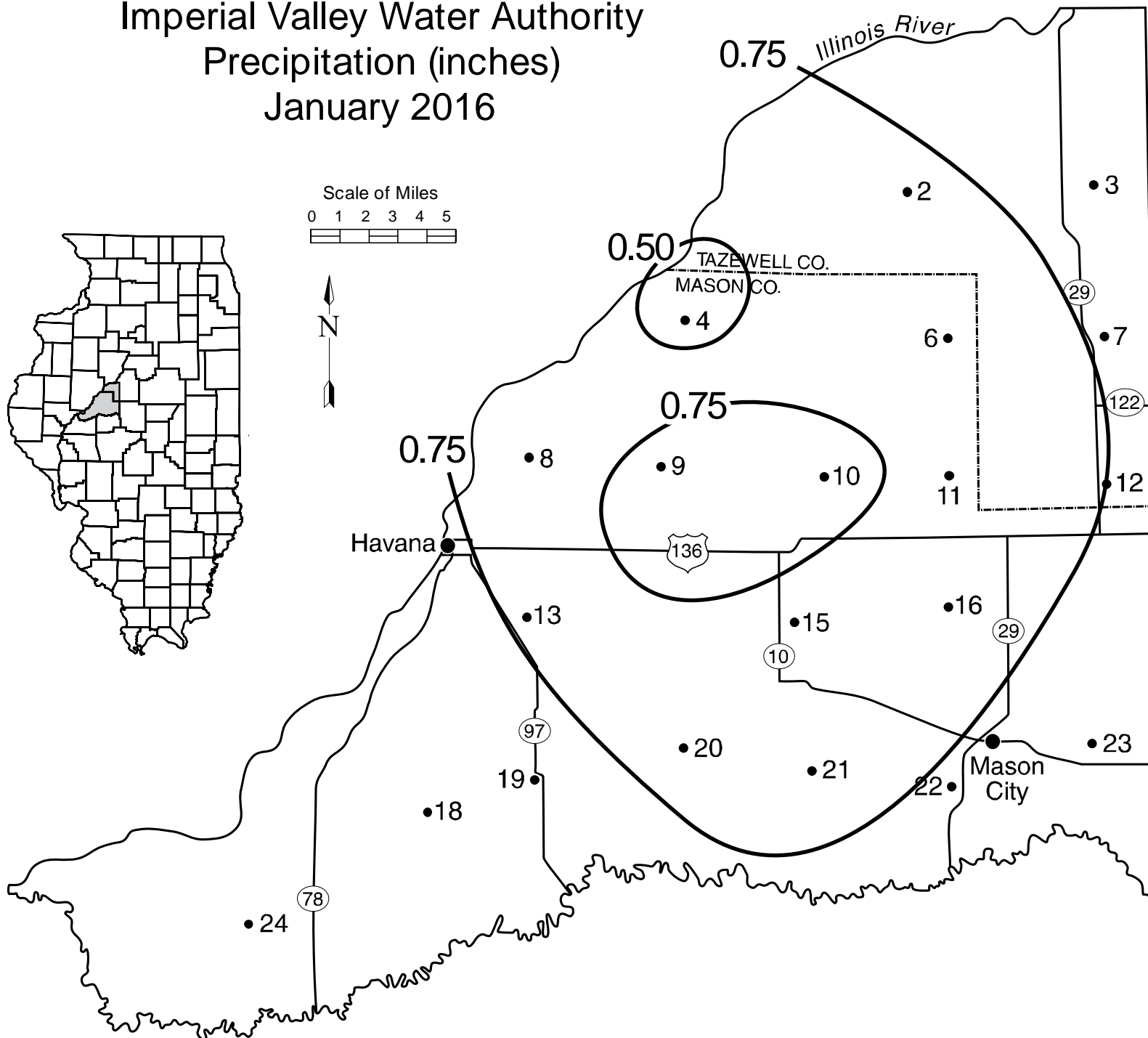
Raingage Network Operations

Dana Grabowski serviced all gages and downloaded the January 2016 digital data on January 27, 2016. Data were downloaded early due to various scheduling conflicts, and fortunately little or no precipitation fell in the last few days of the month. Any measured precipitation will be added to the January totals next month. Data have been processed, quality controlled, and analyzed. All gages and data loggers operated properly. However, the gage at Site #2 was covered by a tarp, so data were lost from January 15 to January 27, 2016. A distance-weighted interpolation program was used to estimate missing hourly data for Site #2.

Data Analysis

Precipitation during January 2016 was light. Monthly gage totals were largest in the outer portions of the network, and smallest in the interior region. Individual gage amounts ranged from 0.96 inches at Site #19 to 0.45 inches at Site #4. The 1981-2010, 30-year average precipitation amounts for January at Havana and Mason City are 2.08 and 1.92 inches, respectively. The January 2016 network average of 0.73 inches is about 37 percent of the 23-year (1993-2015) IVWA January network average of 1.95 inches.

Imperial Valley Water Authority Precipitation (inches) January 2016



January 2016 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	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
6	----	0.04	----	----	----	0.01	0.01	0.01	----	----	----	----	----	0.01	----	----	0.01	----	----	0.01
7	0.06	0.06	----	0.04	----	0.05	0.04	0.04	0.06	0.05	0.03	0.04	----	0.01	0.03	0.04	0.06	0.08	0.07	0.10
8	0.26	0.19	0.20	0.26	0.22	0.20	0.22	0.26	0.24	0.22	0.25	0.23	0.18	0.19	0.26	0.21	0.23	0.24	0.26	0.20
9	0.19	0.18	0.10	0.21	0.16	0.04	0.32	0.14	0.17	0.13	0.18	0.11	0.18	0.27	0.32	0.09	0.18	0.19	0.37	0.20
10	0.01	----	0.01	0.02	0.01	----	0.02	0.03	----	----	0.01	----	----	----	0.03	0.01	0.01	----	0.06	0.02
11	----	----	0.02	0.02	0.01	----	0.01	----	0.02	0.01	----	0.03	0.01	----	0.01	----	----	----	0.02	----
12	0.02	----	----	0.01	----	0.01	----	----	0.02	----	----	----	----	0.01	----	----	----	----	0.02	----
13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
15	----	0.06	----	0.01	0.03	0.02	----	0.03	0.01	0.06	0.02	0.04	----	0.02	0.02	0.05	0.05	0.03	0.03	0.02
16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
17	----	0.01	----	----	----	----	----	0.02	----	----	0.01	----	----	----	----	----	----	----	----	----
18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
19	0.09	0.11	0.09	----	----	0.19	0.14	0.20	0.16	0.20	0.02	0.19	0.12	0.20	0.25	0.14	0.09	0.15	----	0.23
20	0.06	0.10	0.02	0.06	0.33	0.03	0.03	0.06	0.04	0.06	0.18	0.05	0.07	0.17	0.05	0.06	0.06	0.04	0.02	0.05
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
25	0.03	0.04	0.01	----	----	0.02	0.02	----	----	0.02	0.01	0.02	----	----	----	0.01	0.01	0.02	0.01	----
26	----	0.01	----	----	----	----	----	----	----	----	----	----	----	----	----	0.01	0.01	0.01	0.01	0.01
27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Monthly	0.72	0.80	0.45	0.63	0.76	0.58	0.80	0.79	0.72	0.75	0.71	0.71	0.56	0.88	0.96	0.63	0.71	0.76	0.87	0.84

Network Average = 0.73 Imperial Valley Network