

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

Prairie Research Institute

Illinois State Water Survey
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OPERATION OF THE IMPERIAL VALLEY WATER AUTHORITY
(IVWA) PRECIPITATION NETWORK

Monthly Progress Report for December 2016

January 13, 2017

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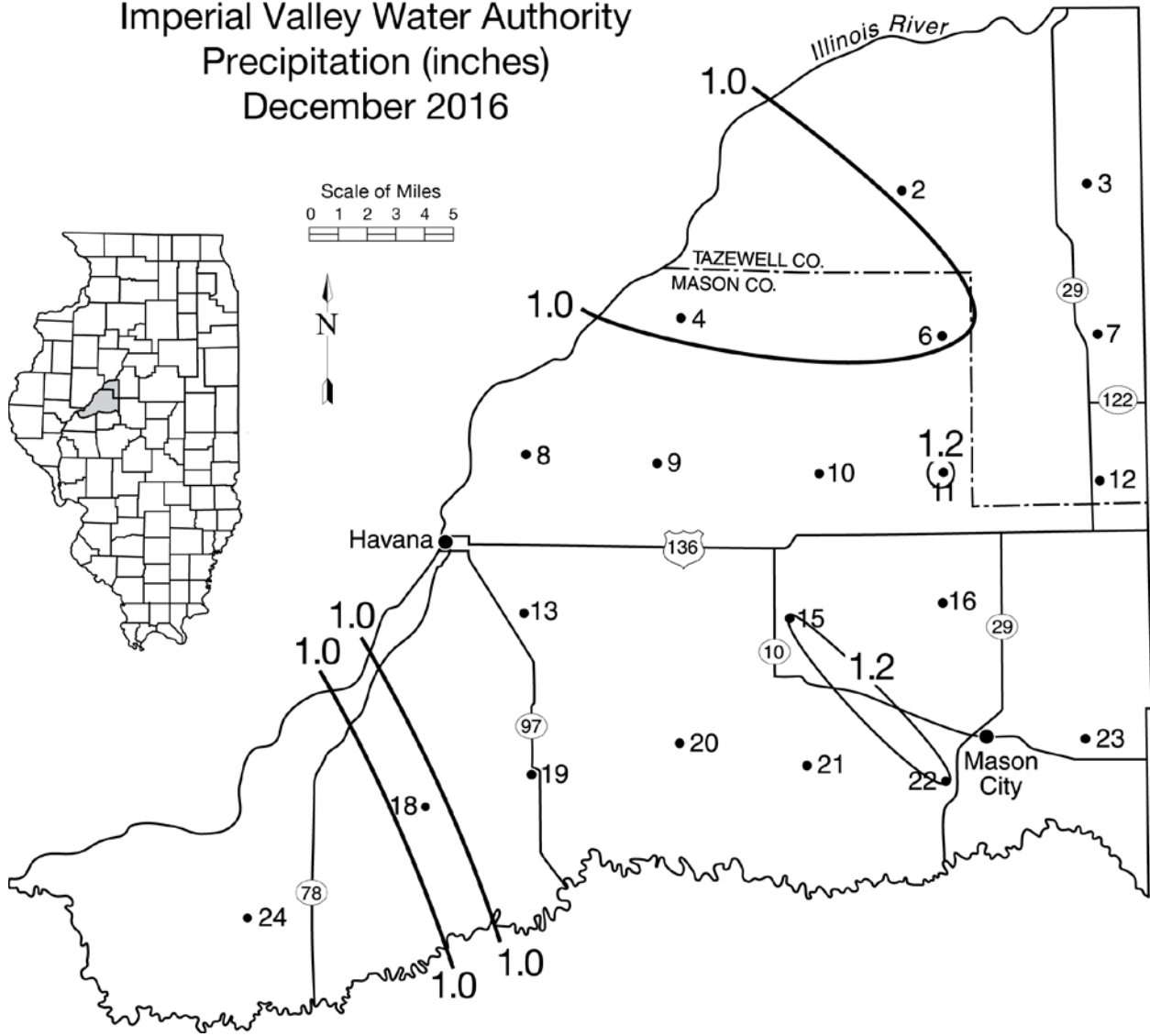
Raingage Network Operations

Dana Grabowski serviced all gages and downloaded the December 2016 digital data on January 4, 2017. During the visits, Dana weighed, emptied, and cleaned all of the buckets and prepared each gage for winter temperatures. All buckets were re-weighed for new tare weight. Data have been processed, quality controlled, and analyzed. All gages and data loggers operated properly.

Data Analysis

Precipitation during December 2016 was well below average. Precipitation amounts were largest in the south-central portion of Mason County. The smallest gage totals were west of Sand Ridge State Forest and near Snicarte. Monthly gage totals varied only 0.24 inches across the network. Individual gage amounts ranged from 0.94 inches at sites #4 and #18 to 1.21 inches at sites #11 and #22. The 1981-2010, 30-year average precipitation amounts for December at Havana and Mason City are 2.76 and 2.33 inches, respectively. The December 2016 network average of 1.09 inches is about 59 percent of the 24-year (1993-2016) IVWA December network average of 1.84 inches.

Imperial Valley Water Authority Precipitation (inches) December 2016



December 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	0.45	0.41	0.38	0.27	0.46	0.46	0.48	0.48	0.44	0.41	0.49	0.42	0.48	0.40	0.54	0.44	0.47	0.40	0.38	0.56	
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
6	0.02	0.07	0.03	0.03	0.04	0.05	0.03	0.03	0.04	0.03	0.04	0.04	0.03	----	0.01	0.03	0.04	0.05	0.07	0.02	
7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
10	0.01	0.06	----	0.01	----	----	0.02	----	----	----	0.04	0.01	----	----	----	0.04	----	----	0.01	----	
11	0.11	0.09	0.11	0.18	0.12	0.11	0.16	0.14	0.13	0.14	0.12	0.14	0.13	0.10	0.09	0.11	0.13	0.15	0.10	0.08	
12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
13	----	----	----	0.01	0.03	0.02	----	----	0.04	0.01	0.02	----	0.01	0.01	----	----	----	0.01	0.02	----	
14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
15	----	----	----	0.03	----	----	----	----	----	0.02	----	----	----	----	0.02	0.02	0.02	----	0.01	----	
16	0.02	0.05	0.01	0.02	0.01	0.01	----	----	0.02	0.01	----	0.02	----	----	0.05	0.02	0.02	----	0.03	0.03	
17	0.05	0.05	0.01	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.04	0.02	0.03	0.01	0.02	----	0.03	0.03	0.04	0.03	
18	----	----	----	----	----	----	----	----	----	----	----	----	----	0.01	----	0.01	----	----	----	----	
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
23	0.02	0.03	0.05	0.06	0.04	0.03	0.04	0.05	0.05	0.04	----	0.06	0.04	0.07	0.05	0.04	0.04	0.08	0.05	0.08	
24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
25	0.06	0.14	0.05	0.06	0.06	0.04	0.03	0.04	0.17	0.08	0.07	0.06	0.04	0.04	0.06	0.06	0.05	0.10	0.03	0.05	
26	0.27	0.13	0.30	0.30	0.41	0.34	0.29	0.28	0.31	0.30	0.24	0.43	0.24	0.30	0.30	0.39	0.29	0.39	0.35	0.34	
27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Monthly	1.01	1.03	0.94	0.99	1.19	1.07	1.10	1.03	1.21	1.05	1.06	1.20	1.00	0.94	1.14	1.16	1.09	1.21	1.09	1.19	
Network Average =	1.09		Imperial Valley Network																		