

UNIVERSITY OF ILLINOIS  
AT URBANA-CHAMPAIGN

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

Monthly Progress Report for September 2016

October 14, 2016

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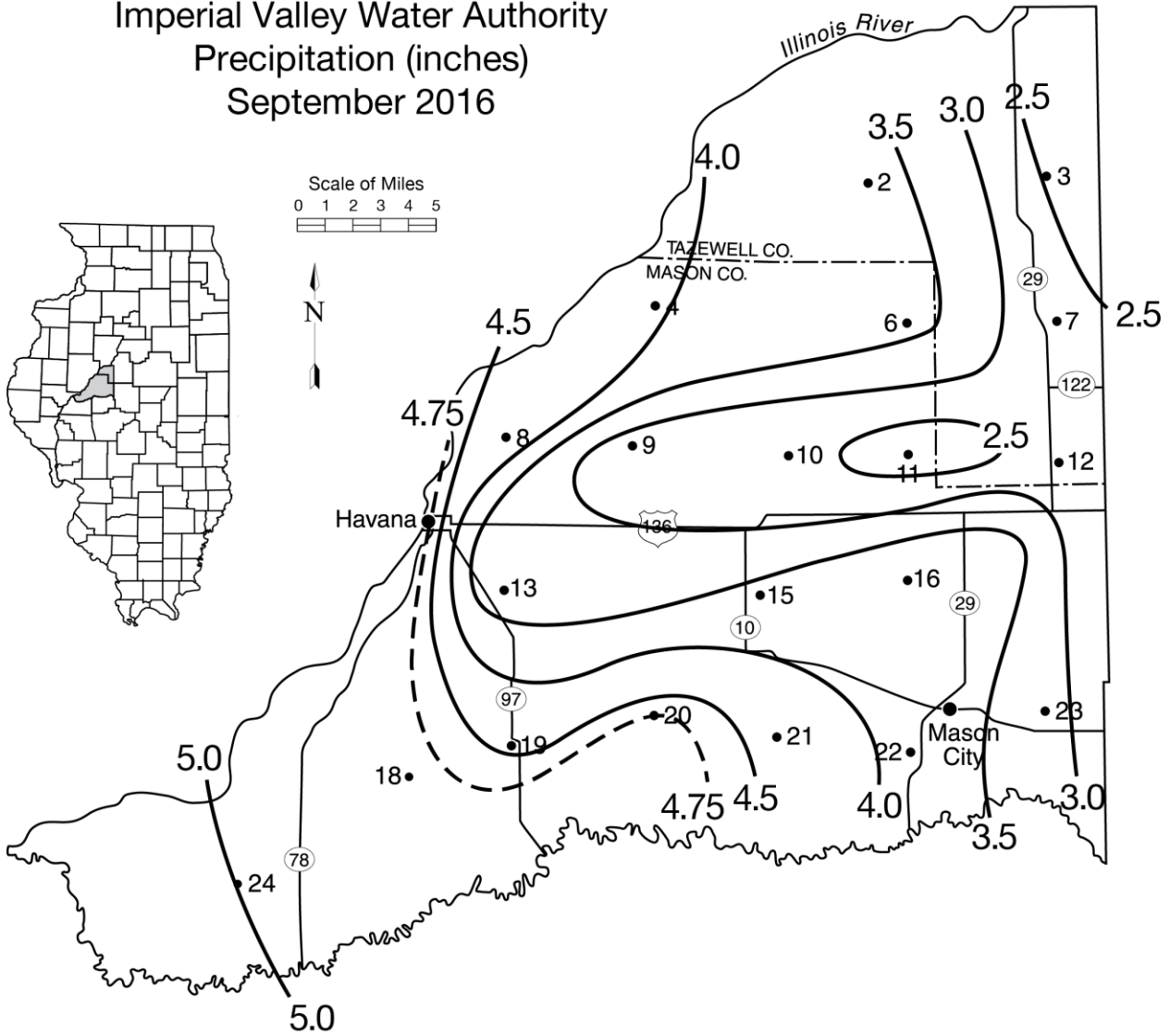
Raingage Network Operations

Dana Grabowski serviced all gages and downloaded the September 2016 digital data on October 5, 2016. Data have been processed, quality controlled, and analyzed. All gages and data loggers operated properly. During the visits, Dana weighted, emptied, and cleaned all of the buckets. Calibration checks were performed at sites 15 and 22. Site 15 needed a calibration adjustment, and Site 22 was within calibration tolerance. Some debris was removed from the funnel at Site 8.

Data Analysis

Precipitation during September 2016 was above average. Monthly gage totals were largest in the southwestern portion of the network, smaller along the eastern edge of the network, and smallest in the central region. Individual gage amounts ranged from 2.31 inches at Site #11 to 4.97 inches at Site #24. The 1981-2010, 30-year average precipitation amounts for September at Havana and Mason City are 3.15 and 3.04 inches, respectively. The September 2016 network average of 3.75 inches is about 123 percent of the 23-year (1993-2015) IVWA September network average of 3.03 inches.

# Imperial Valley Water Authority Precipitation (inches) September 2016



September 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	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
7	1.29	0.73	1.96	1.79	1.34	2.18	1.47	1.43	0.96	1.74	1.87	2.03	2.07	2.74	2.30	2.32	2.40	2.28	1.71	3.32
8	0.22	0.08	0.14	0.40	0.35	0.23	0.16	0.22	0.18	0.31	0.16	0.36	0.44	0.59	0.56	0.49	0.52	0.51	0.53	0.41
9	0.68	0.61	0.53	0.12	0.14	0.28	0.05	0.03	0.10	0.11	----	0.12	0.30	0.14	0.12	0.13	0.02	0.01	0.09	----
10	0.26	0.37	0.24	0.26	0.22	0.27	0.23	0.19	0.21	0.18	0.29	0.27	0.26	0.30	0.29	0.32	0.25	0.19	0.19	0.51
11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
13	----	----	----	----	----	0.07	0.06	0.01	----	0.06	0.13	0.21	0.25	0.44	0.50	1.08	0.68	0.65	0.36	0.09
14	0.17	0.06	0.50	0.28	0.65	0.34	0.28	0.26	0.43	0.17	0.13	0.07	0.05	0.01	0.05	0.03	0.02	0.01	0.04	0.02
15	----	----	----	----	----	----	----	----	----	----	----	----	0.01	----	0.12	----	----	----	----	----
16	0.98	0.48	0.57	0.36	0.55	0.91	0.46	0.32	0.30	0.16	0.53	0.37	0.26	0.52	0.40	0.32	0.35	0.16	0.08	0.52
17	0.06	0.12	0.04	0.22	0.11	0.01	0.11	0.23	0.10	0.02	0.21	0.12	0.05	----	0.09	0.09	0.03	0.02	0.09	0.01
18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
25	----	----	0.01	0.02	----	----	----	----	----	0.01	----	0.03	----	0.05	0.03	----	0.04	0.04	----	0.02
26	----	----	----	0.02	0.01	----	0.01	----	0.01	----	----	0.01	----	0.01	0.02	----	0.01	0.02	----	0.01
27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
29	0.01	0.03	0.02	0.03	----	----	0.01	----	----	----	----	0.04	----	0.02	----	----	0.03	----	0.05	----
30	----	----	0.05	----	----	----	----	----	0.02	0.01	----	----	----	0.03	----	----	----	----	----	0.06
Monthly	3.67	2.48	4.06	3.50	3.37	4.29	2.84	2.69	2.31	2.77	3.32	3.63	3.69	4.85	4.48	4.78	4.35	3.89	3.14	4.97

Network Average = 3.75 Imperial Valley Network