

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

Prairie Research Institute

Illinois State Water Survey
2204 Griffith Drive
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OPERATION OF THE IMPERIAL VALLEY WATER AUTHORITY
(IVWA) PRECIPITATION NETWORK

Monthly Progress Report for October 2016

November 10, 2016

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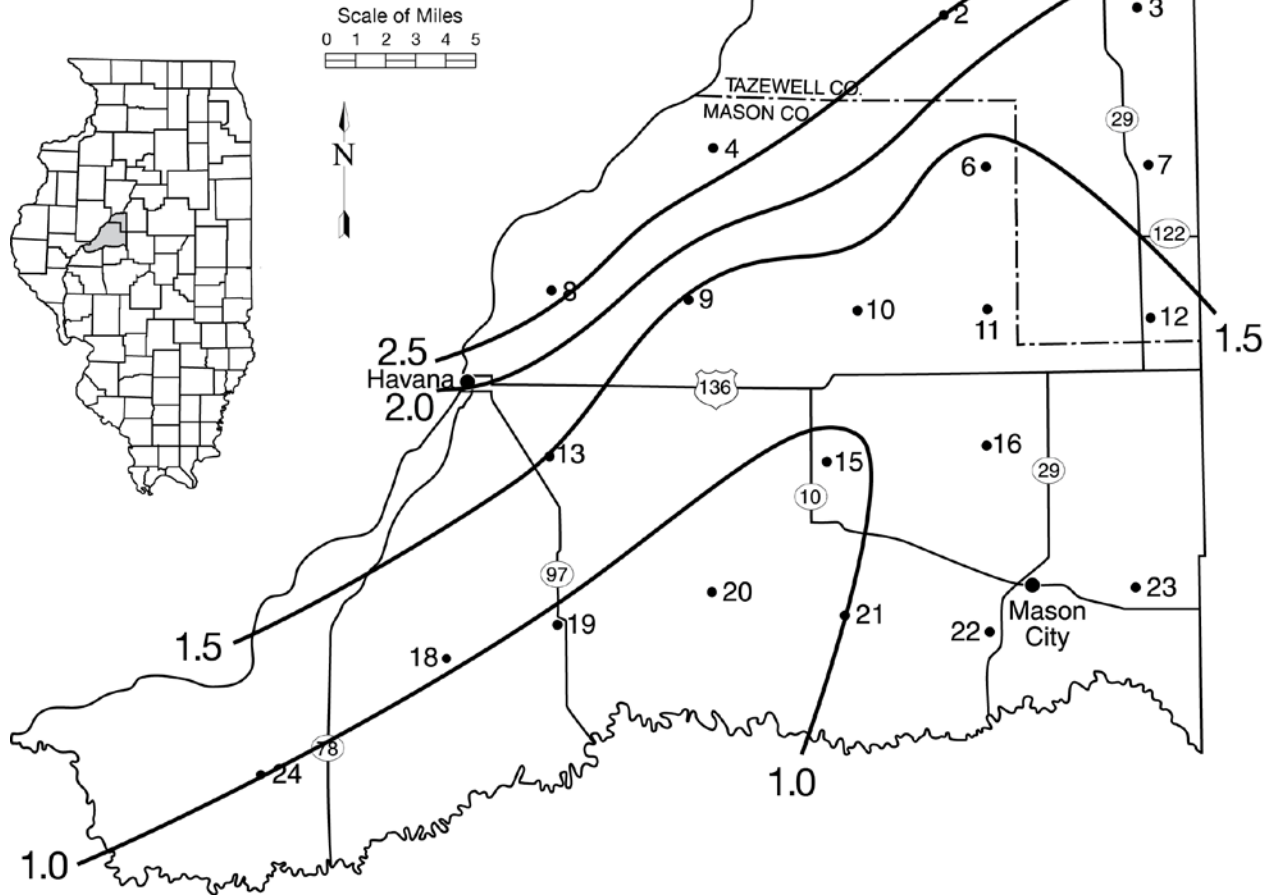
Raingage Network Operations

Dana Grabowski serviced all gages and downloaded the October 2016 digital data on November 3, 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 16 and 23, each needed a calibration adjustment. Leaves were removed from the funnels from sites 6, 8, and 19.

Data Analysis

Precipitation during October 2016 was well-below average. Monthly gage totals were largest along the northwestern edge of the network, north of Havana, IL. The smallest gage totals were in south-central Mason County. Individual gage amounts ranged from 0.56 inches at site #20 to 2.80 inches at site #8, northeast of Havana, IL. The 1981-2010, 30-year average precipitation amounts for October at Havana and Mason City are 3.04 and 2.87 inches, respectively. The October 2016 network average of 1.44 inches is about 52 percent of the 23-year (1993-2015) IVWA October network average of 2.76 inches.

Imperial Valley Water Authority Precipitation (inches) October 2016



October 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	0.10	0.01	0.20	0.17	0.06	0.07	0.20	0.28	0.04	0.05	0.03	0.12	0.21	0.13	0.14	0.21	0.09	0.23	0.03	0.23
2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
6	1.54	0.83	1.48	0.32	0.71	1.33	0.35	0.20	0.36	0.24	0.59	0.12	0.46	0.28	0.12	0.11	0.30	0.14	0.27	0.17
7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
11	0.13	0.02	0.08	0.05	----	0.03	0.01	0.12	0.18	0.05	----	----	----	----	----	----	0.01	0.20	----	----
12	0.15	0.17	0.16	0.09	0.04	0.32	0.30	0.16	0.11	0.08	0.47	0.10	0.04	0.35	0.16	0.02	0.06	0.07	0.10	0.23
13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
16	0.20	0.07	0.21	0.24	0.16	0.26	0.19	0.19	0.16	0.11	0.22	0.28	0.15	0.31	0.21	0.18	0.45	0.48	0.48	0.28
17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
25	0.32	0.39	0.51	0.44	0.73	0.68	0.26	0.27	0.36	0.25	0.14	0.27	0.33	0.13	0.03	0.01	0.10	0.14	0.04	0.07
26	0.11	0.12	0.10	0.12	0.28	0.11	0.07	0.07	0.12	0.28	0.05	0.06	0.06	0.05	0.04	0.03	0.06	----	0.16	0.02
27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Monthly	2.55	1.61	2.74	1.43	1.98	2.80	1.38	1.29	1.33	1.06	1.50	0.95	1.25	1.25	0.70	0.56	1.07	1.26	1.08	1.00

Network Average = 1.44 Imperial Valley Network