



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 August 2018

September 13, 2018

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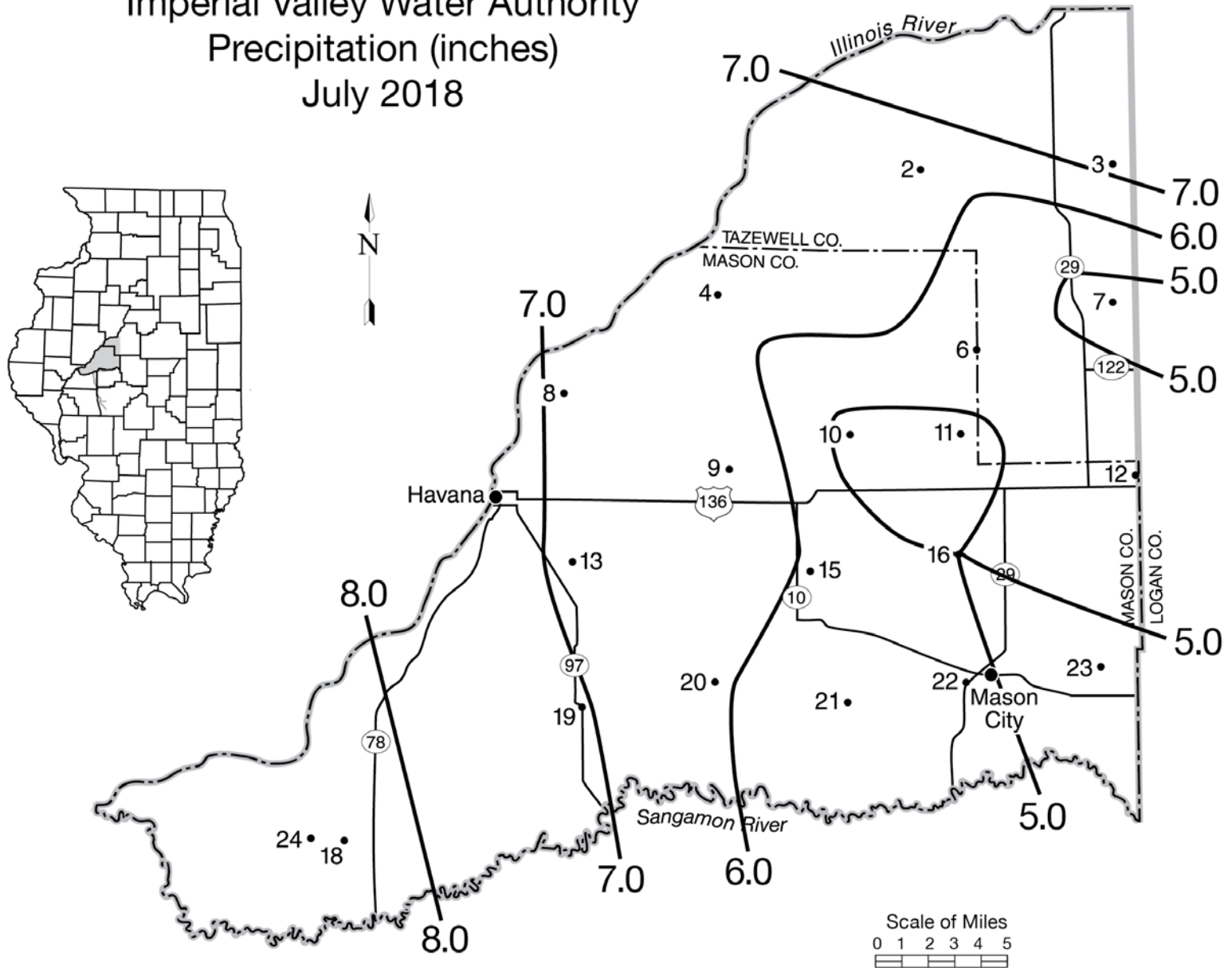
Raingage Network Operations

Dana Grabowski serviced all gages and downloaded the digital data on September 5, 2018. All of the collections were weighed and buckets were emptied and cleaned. Sites #10 and #22 were calibrated with correlation coefficients of 0.99999 and 1.00000, respectively.

Data Analysis

The average network precipitation for August 2018 was 5.98 inches, which is well above the previous 25-year network average. The largest monthly gage precipitation totals were in the southwest part of Mason County. The smallest gage totals were in the northwestern edge of the network. Monthly gage totals varied 3.77 inches across the network, from 4.59 inches at site #7, east of Green Valley to 8.50 inches at site #24, southeast of Snicarte. The 1981–2010 30-year average precipitation amounts for August at Havana and Mason City are 3.76 and 3.29 inches, respectively. The August 2018 network average of 5.98 inches is 182 percent of the 25-year (1993–2017) IVWA August network average of 3.29 inches.

Imperial Valley Water Authority Precipitation (inches) July 2018



August 2018 Daily and Monthly Precipitation Amounts (inches), Imperial Valley Network

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	0.02	0.01	0.03	0.03	0.01	0.02	0.02	0.02	0.04	0.01	0.04	0.02	----	----	0.02	0.02	0.02	----	----	0.03
2	----	----	0.08	0.27	----	0.08	0.10	0.03	0.01	----	0.03	0.14	0.01	0.26	0.11	----	----	----	----	0.33
3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
6	----	----	----	----	----	----	----	----	----	0.95	----	0.21	0.24	----	----	----	----	----	----	----
7	0.28	0.43	0.52	0.94	0.79	0.21	0.20	0.71	0.61	0.24	0.05	0.02	0.02	0.10	0.06	0.03	0.02	0.01	0.38	0.16
8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
15	0.69	0.01	1.93	0.16	0.01	1.08	1.77	0.31	0.37	0.23	0.91	0.89	0.50	0.24	0.88	0.94	0.30	0.03	0.04	0.27
16	0.06	0.15	0.09	0.55	0.38	0.05	0.21	0.09	0.07	0.47	0.29	0.28	0.18	1.73	0.45	0.25	0.10	0.36	0.01	1.84
17	0.95	0.79	0.34	0.21	0.32	0.62	0.28	0.23	0.20	0.33	0.18	0.28	0.16	0.66	0.46	0.34	0.13	0.11	0.11	0.69
18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
20	1.21	3.13	0.36	0.69	0.28	0.65	0.62	0.39	0.43	0.29	1.01	0.35	0.37	1.12	1.08	0.47	0.33	0.27	0.24	1.15
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
24	0.77	0.59	0.85	0.79	0.69	0.91	1.05	0.88	0.92	0.93	1.09	1.11	1.04	1.28	1.16	1.28	1.21	1.29	1.21	1.18
25	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	----	0.01	----	----	----	0.01	----	----	----	----	----
26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
28	1.45	1.08	1.25	0.39	0.43	1.52	1.07	0.60	0.35	1.33	1.46	1.20	1.22	0.18	0.36	0.46	0.12	0.01	----	----
29	0.99	0.99	1.31	1.58	1.67	1.67	1.59	1.46	1.78	1.02	1.45	1.32	1.26	2.77	2.48	2.42	2.79	3.01	2.74	2.85
30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Monthly	6.44	7.19	6.77	5.63	4.59	6.82	6.92	4.73	4.79	5.80	6.52	5.82	5.00	8.34	7.07	6.21	5.02	5.09	4.73	8.50

Network Average = 5.98* Imperial Valley Network

*Stations #18 and #24 are close together. Average does not include #18.