



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 September 2018

October 11, 2018

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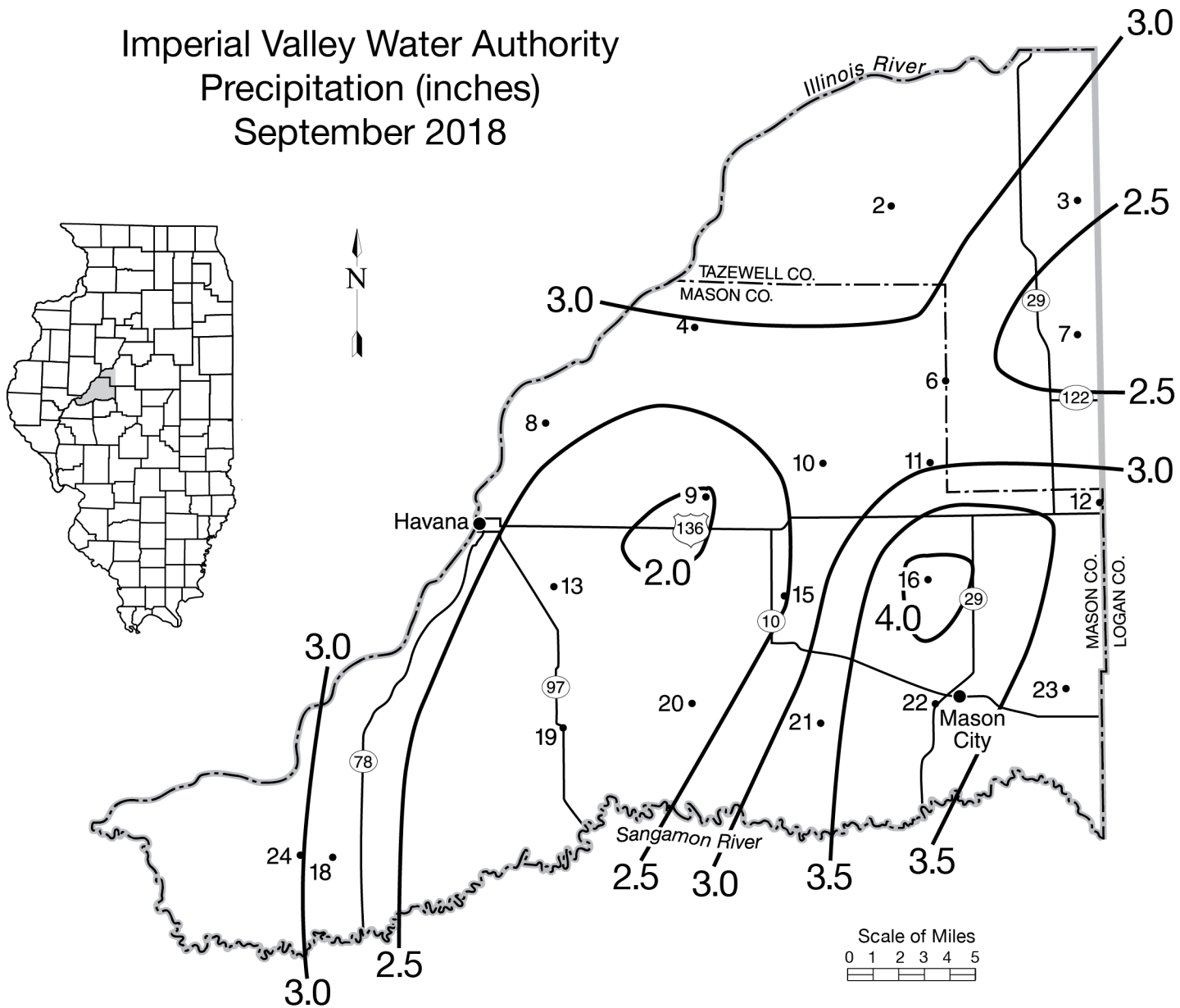
Raingage Network Operations

Dana Grabowski serviced all gages and downloaded the digital data on October 3, 2018. All of the collections were weighed and buckets were emptied and cleaned. Sites #19, #20, #21, and #23 were calibrated with correlation coefficients of 1.00000, 0.99999, 0.99999, and 0.99996, respectively. The batteries on the Hobo loggers at sites #4 and #15 were replaced.

Data Analysis

The average network precipitation for September 2018 was 2.82 inches, which is slightly less than the previous 25-year network average. The largest monthly gage precipitation totals were in the southeast part of Mason County. The smallest gage totals were in central Mason County, east of Havana. Monthly gage totals varied 2.34 inches across the network, from 1.94 inches at site #9, southeast of Topeka, to 4.28 inches at site #16, southwest of San Jose. 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 2018 network average of 2.82 inches is 98 percent of the 25-year (1993–2017) IVWA September network average of 2.88 inches.

Imperial Valley Water Authority Precipitation (inches) September 2018



September 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	0.09	---	0.03	0.03	---	0.08	---	---	---	0.01	---	0.01	0.01	0.12	0.07	---	0.02	0.02	---	0.11	
2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
3	---	---	---	---	---	0.04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
5	0.18	---	0.06	0.04	---	0.29	0.07	---	0.05	0.21	0.01	---	0.27	0.02	0.03	---	0.06	0.68	0.86	---	
6	1.80	1.35	0.72	1.10	0.94	0.94	0.58	1.36	1.18	1.15	0.59	1.01	1.77	0.21	0.33	0.44	1.01	0.56	0.39	0.25	
7	1.15	1.13	1.97	1.42	1.09	1.12	1.14	1.23	1.48	1.61	1.16	0.96	1.91	2.02	1.32	1.58	1.66	1.52	1.47	2.52	
8	0.08	0.05	0.07	0.02	0.07	0.07	0.10	0.08	0.09	0.13	0.09	0.11	0.13	0.12	0.14	0.11	0.26	0.17	0.21	0.14	
9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
18	0.01	---	0.01	---	---	---	---	---	---	0.01	---	---	0.01	0.02	0.04	---	---	---	---	---	
19	---	0.01	0.02	0.02	---	0.02	0.02	0.01	---	---	0.07	0.01	---	0.02	0.06	---	0.02	---	---	0.01	
20	---	---	0.02	---	---	0.01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
21	0.05	0.07	0.02	0.04	---	0.04	---	0.05	0.03	---	0.07	0.05	---	0.11	0.05	0.01	0.16	0.41	0.02	---	
22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.03	---	
25	0.07	0.01	0.04	0.03	---	0.06	---	0.04	0.06	0.11	0.03	0.22	0.16	0.04	0.06	0.01	0.13	0.31	0.13	---	
26	---	---	---	0.02	---	---	0.02	0.01	0.04	0.01	0.03	0.01	0.02	---	0.03	---	0.01	0.01	0.03	0.01	
27	0.01	0.01	---	0.01	---	---	0.01	0.02	---	---	---	0.02	---	---	---	---	0.01	---	0.02	0.01	
28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
29	0.04	0.02	0.01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Monthly	3.48	2.65	2.97	2.73	2.10	2.67	1.94	2.80	2.93	3.24	2.05	2.40	4.28	2.68	2.13	2.15	3.34	3.68	3.16	3.05	
Network Average =	2.82		Imperial Valley Network																		