



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 2020
October 20, 2020

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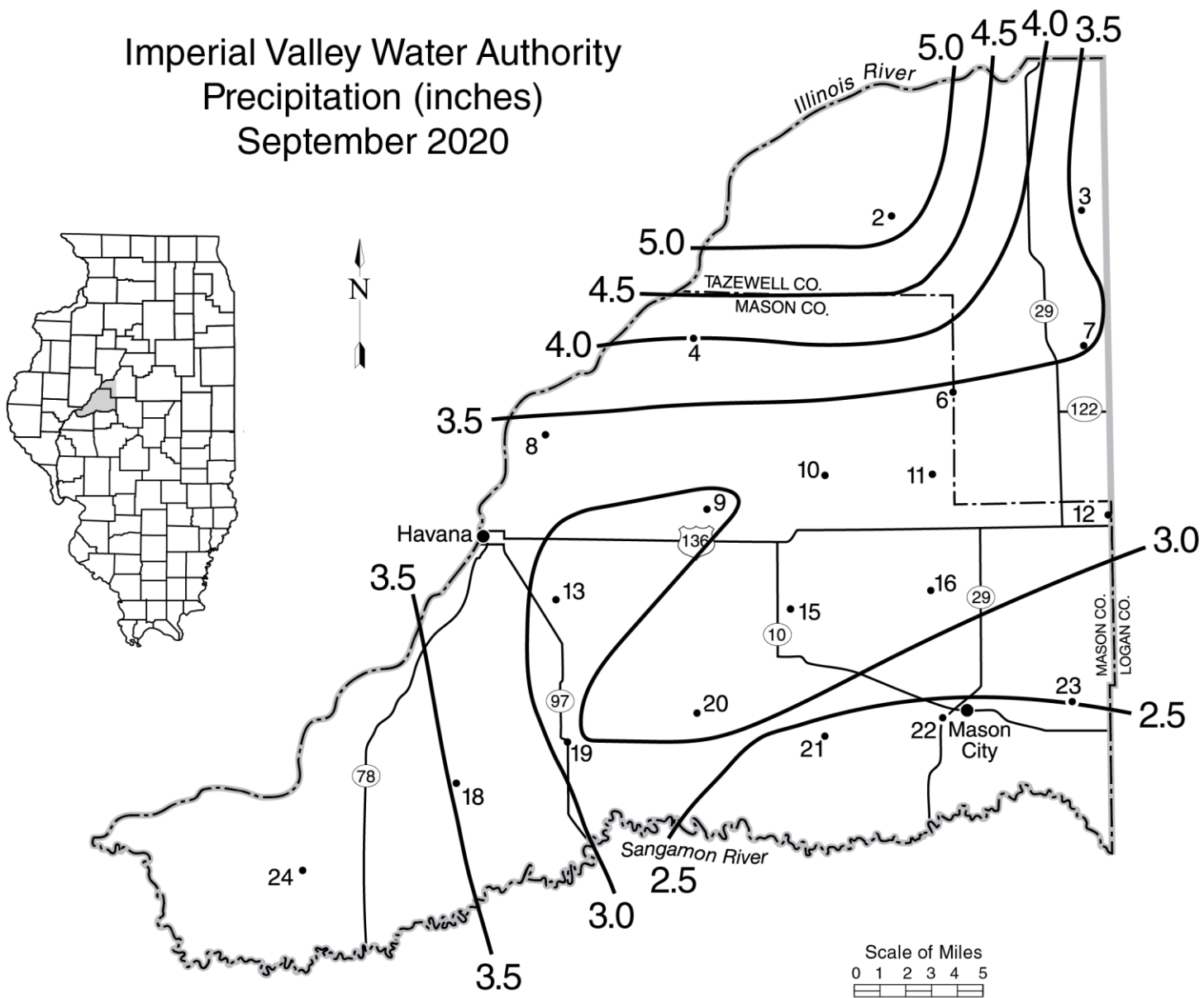
Raingage Network Operations

On October 5, Hayden visited and weighed the precipitation collections for 17 of the 19 gages. Gage #21 was found lying on the ground. The entire gage and base had been pulled out of the ground with the gage shell dented and torn. The battery voltage was low at Gage #13. Precipitation data for gages #9 and #12 are downloaded by modem every hour.

Data Analysis

The average network precipitation for September 2020 was 3.28 inches, which is above the previous 27-year network average. Precipitation data for site #13 were estimated for the period September 27–30 and for site #21 for the period September 6–30. Monthly gage totals varied 3.32 inches across the network, from 2.01 inches at site #21, southeast of Easton, to 5.33 inches at site #2, north of Manito. The 1981–2010 30-year average precipitation amounts for September at Havana and Mason City are 3.04 and 3.15 inches, respectively. The September 2020 network average of 3.28 inches is 109 percent of the 28-year (1992–2019) IVWA September network average of 3.01 inches.

Imperial Valley Water Authority Precipitation (inches) September 2020



September 2020 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	1.16	0.63	0.95	0.86	1.17	0.85	1.06	0.99	0.98	1.25	0.99	1.31	0.97	1.30	0.86	1.27	0.54	0.83	1.19	0.78
2	0.01	----	0.01	----	0.01	0.01	----	0.01	0.01	0.01	0.02	----	----	0.01	0.01	----	0.01	0.01	----	----
3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
6	0.53	0.30	0.64	0.48	0.42	0.02	0.11	0.25	0.52	0.21	----	0.04	0.19	0.01	----	----	----	0.01*	0.06	----
7	1.52	0.34	0.27	0.02	0.13	0.13	----	0.06	----	0.13	----	----	0.04	0.05	0.02	----	----	0.01*	----	0.08
8	0.13	0.32	0.03	0.07	0.35	----	0.05	0.03	0.19	0.08	0.01	0.03	0.20	0.02	0.01	0.11	0.12	0.08*	0.14	0.02
9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10	0.02	----	0.01	----	----	0.01	----	----	----	0.01	0.01	----	----	----	----	----	0.02	----	----	----
11	0.05	----	0.02	0.03	----	0.03	0.05	0.01	0.04	0.03	0.01	0.04	0.01	0.01	0.01	0.03	0.03	0.01*	----	0.01
12	1.40	1.23	1.62	1.41	1.37	1.73	1.17	1.35	1.25	0.77	1.30	1.34	1.19	1.50	1.39	1.45	1.04	1.06*	0.62	2.24
13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
27	0.36	0.35	0.34	0.39	0.35	0.44	0.02	0.41	0.35	0.18	0.15*	0.48	0.38	0.51	0.57	0.48	0.12	0.32*	0.44	0.60
28	0.14	0.16	0.12	0.12	0.13	0.12	0.46	0.12	0.11	0.13	0.19*	0.10	0.14	0.07	0.08	0.10	0.11	0.07*	0.05	0.10
29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
30	0.01	0.01	----	----	----	0.02	----	0.02	----	0.01	----	----	----	----	----	----	0.02	----	0.01	----
Monthly	5.33	3.34	4.01	3.38	3.93	3.36	2.92	3.25	3.45	2.81	2.68*	3.34	3.12	3.48	2.95	3.44	2.01	2.40*	2.51	3.83

Network Average = 3.28 Imperial Valley Network

Note: * Estimated data