



PRAIRIE RESEARCH INSTITUTE

Illinois State Water Survey
2204 Griffith Drive
Champaign, IL 61820

OPERATION OF THE IMPERIAL VALLEY WATER AUTHORITY (IVWA) PRECIPITATION NETWORK

Monthly Progress Report for January 2020
February 20, 2020

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Raingage Network Operations

On February 3, Hayden Wennerdahl downloaded the data. All buckets were weighed. All gages operated properly during the month.

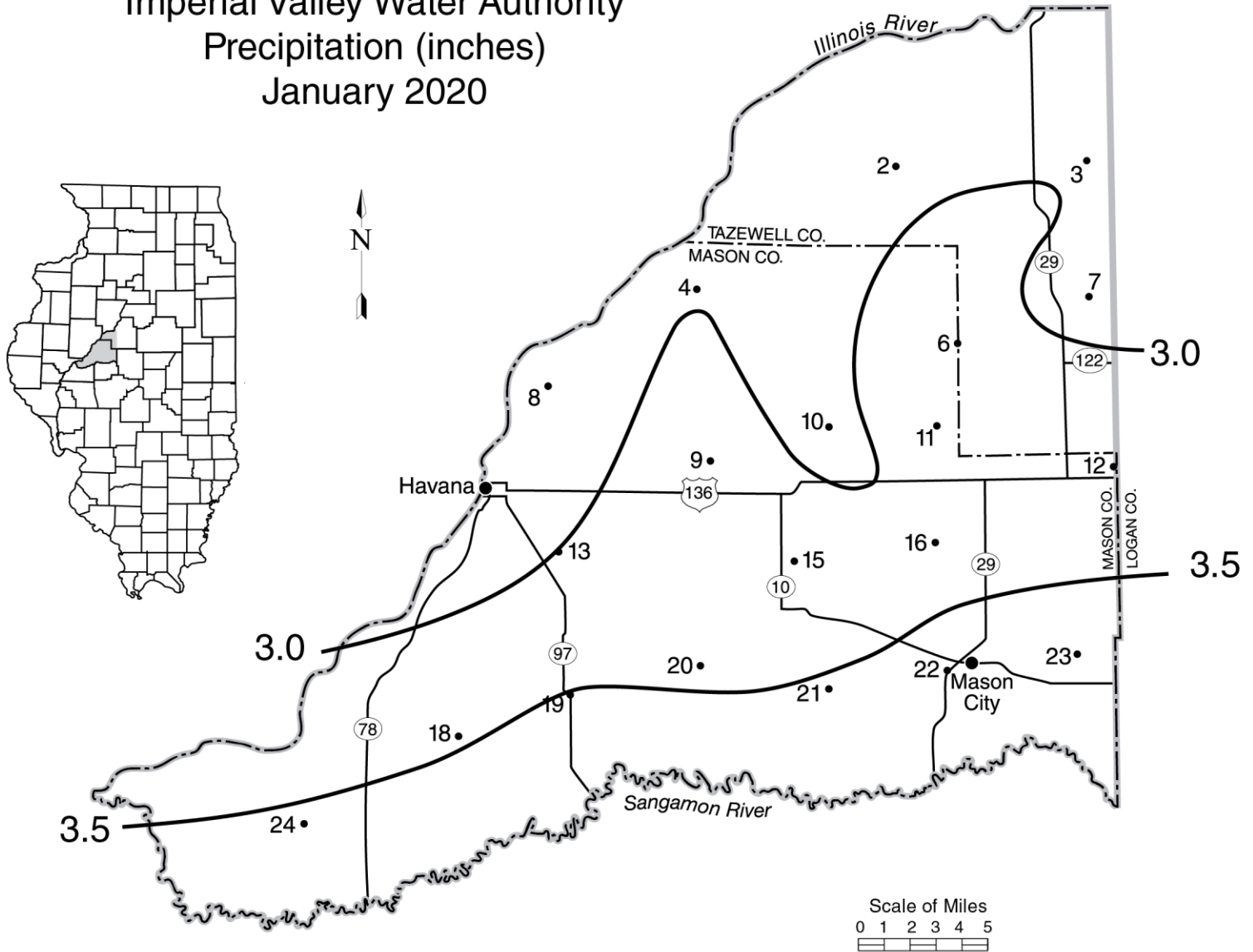
Data Analysis

The average network precipitation for January 2020 was 3.24 inches, which is well above the previous 27-year network average. The largest monthly gage totals were in the southern part of the network. Monthly gage totals varied 1.36 inches across the network, from 2.61 inches at site #8, north of Havana, to 3.97 inches at site #22, west of Mason City. The 1981–2010 30-year average precipitation amounts for January at Havana and Mason City are 2.08 and 1.92 inches, respectively. The January 2020 network average of 3.24 inches is 174 percent of the 27-year (1993–2019) IVWA January network average of 1.86 inches.

January 2020 total monthly precipitation was the same as in January 2013 and these tie for the 4th wettest Januarys since 1993. January of 2005 had the highest January precipitation of 4.49 inches, followed by 1993 (3.52 inches) and 2001 (3.35 inches).

Elizabeth Tyson assisted with the isohyets on the precipitation map.

Imperial Valley Water Authority Precipitation (inches) January 2020



January 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	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
2	----	----	----	----	----	----	----	----	----	----	----	----	----	0.01	----	----	0.01	----	0.01	0.06
3	0.04	0.01	0.01	----	----	0.02	0.04	----	----	----	----	----	0.01	0.03	0.02	0.01	----	----	----	----
4	0.05	0.04	0.04	0.07	----	0.03	0.02	0.03	0.04	0.04	0.01	0.05	0.05	0.07	0.03	0.02	0.03	0.07	0.03	----
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10	1.13	1.08	1.18	1.21	1.15	1.31	1.08	1.19	1.22	1.46	1.21	1.33	1.28	1.24	1.36	1.44	1.56	1.85	1.86	1.49
11	0.30	0.24	0.45	0.35	0.26	0.23	0.48	0.25	0.36	0.40	0.39	0.32	0.39	0.34	0.58	0.41	0.44	0.36	0.57	0.50
12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
17	0.21	0.25	0.13	0.18	0.11	0.15	0.27	0.18	0.19	0.11	0.25	0.26	0.19	0.26	0.25	0.32	0.17	0.22	0.11	0.33
18	0.62	0.75	0.68	0.92	0.84	0.54	0.72	0.81	0.83	0.94	0.65	0.85	0.75	0.87	0.85	0.81	0.86	0.90	0.79	0.77
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
22	----	----	----	0.01	----	----	----	----	0.02	----	----	----	----	----	0.02	----	----	0.04	0.01	0.01
23	0.31	0.48	0.19	0.34	0.32	0.19	0.34	0.23	0.35	0.20	0.25	0.27	0.25	0.25	0.25	0.21	0.21	0.35	0.12	0.33
24	0.19	0.09	0.28	0.25	0.15	0.14	0.21	0.23	0.16	0.14	0.25	0.21	0.16	0.26	0.21	0.21	0.24	0.18	0.21	0.16
25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
31	0.01	----	----	----	----	----	0.01	----	0.02	0.01	----	----	----	----	0.01	----	----	----	----	0.03
Monthly	2.86	2.94	2.96	3.33	2.83	2.61	3.17	2.92	3.19	3.30	3.01	3.29	3.08	3.33	3.58	3.43	3.52	3.97	3.71	3.68
Network Average =	3.24			Imperial Valley Network																