



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 November 2021
December 20, 2021

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Raingage Network Operations

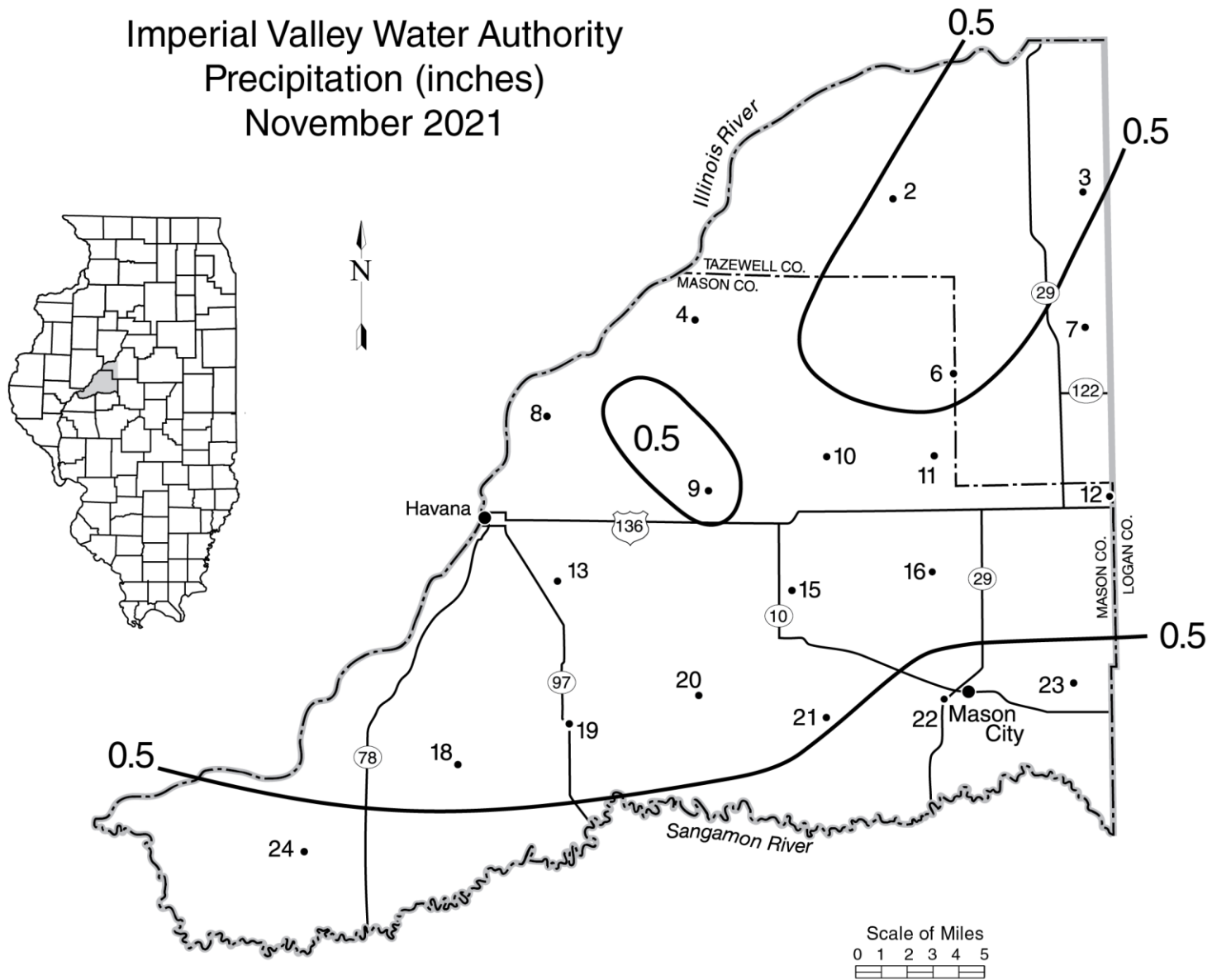
On December 8, Hayden Wennerdahl downloaded the data and weighed and tared the precipitation collections for all gages, except gages #9 and #12. Precipitation data from gages #21 and #23 are missing from November 5–30.

Precipitation data for gages #9 and #12 are downloaded by modem every hour to an Illinois State Water Survey server.

Data Analysis

The average network precipitation for November 2021 was 0.42 inches, which is well below the previous 28-year network average. Monthly gage totals varied 0.44 inches across the network, from 0.19 inches at site #13, southeast of Havana, to 0.63 inches at site #6, southwest of Green Valley. The 30-year (1991–2020) average precipitation amounts for the month of November at Havana and Mason City are 2.73 and 3.11 inches, respectively. The November 2021 network average of 0.41 inches is 17 percent of the 29-year (1993–2020) IVWA November network average of 2.42 inches. November 2021 was the driest November in the past 30 years.

Imperial Valley Water Authority Precipitation (inches) November 2021



November 2021 Daily and Monthly Precipitation Amounts (inches), Imperial Valley Network

	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
DAY																				
1	---	0.01	---	---	---	---	---	---	0.01	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01
3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01
4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.29	0.15
11	0.20	0.26	0.17	0.34	0.21	0.17	0.26	0.20	0.16	0.18	0.13	0.14	0.18	0.11	0.10	0.15	0.19	0.28	---	0.02
12	0.01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.03	---	0.02
13	---	---	---	---	---	0.01	---	---	---	---	---	---	---	0.01	---	---	---	---	0.04	0.07
14	0.04	0.06	0.04	0.04	---	0.03	0.04	0.02	0.04	---	---	0.04	0.03	0.05	0.03	0.04	0.04	0.07	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.02
16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.03	0.03
17	0.01	0.01	0.01	0.05	0.02	0.01	0.04	---	0.02	0.02	0.01	---	0.03	0.01	0.02	0.03	---	0.01	---	---
18	---	0.02	---	---	---	0.01	0.01	---	0.01	0.01	0.01	0.00	0.01	0.00	0.02	0.01	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	0.01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00
21	0.03	---	0.01	0.02	---	0.01	0.01	---	0.01	---	---	---	---	---	---	0.01	---	0.02	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01	0.13
24	0.14	0.14	0.13	0.12	0.08	0.18	0.12	0.05	0.03	0.01	0.04	0.09	0.04	0.12	0.11	0.05	0.02	0.01	0.05	0.17
25	0.08	0.06	0.05	0.05	0.05	0.04	0.07	0.04	0.06	0.05	---	0.06	0.08	0.08	0.08	0.06	0.04	0.13	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27	0.01	0.01	---	---	0.01	---	0.01	---	---	0.03	0.01	---	0.01	---	---	---	---	0.01	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	0.01	---	---	---	0.01	---	0.01	0.01	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Monthly	0.52	0.55	0.40	0.63	0.37	0.45	0.57	0.31	0.33	0.30	0.19	0.32	0.38	0.39	0.37	0.35	0.30	0.56	0.42	0.61

Network Average = 0.42 Imperial Valley Network

Note: The November 2021 network average of 0.42 inches is 17 percent of the 29-year (1993–2020) IVWA November network average of 2.42 inches. For the Imperial Valley precipitation network, November 2021 was the driest November in the past 30 years.