



## **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 December 2021  
January 25, 2022

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### Raingage Network Operations

On January 8, Erin downloaded the data and weighed and tared the precipitation collections for all gages, except gage #12. Precipitation data from gages #21 and #23 was recovered for November 5–30, 2021.

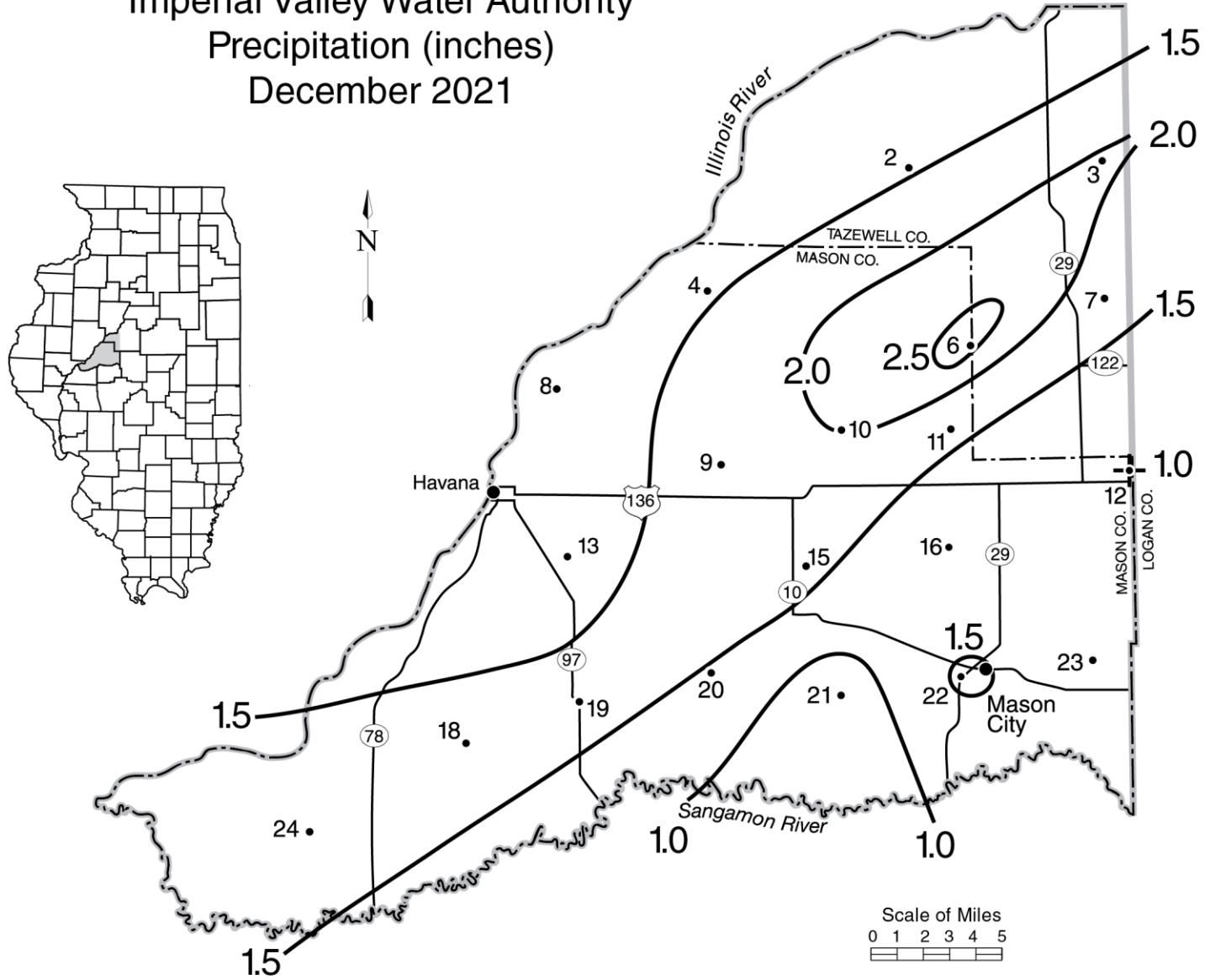
Precipitation data for gages #9 and #12 are downloaded by modem every hour to an Illinois State Water Survey server.

### Data Analysis

The average network precipitation for December 2021 was 1.60 inches, which is below the previous 29-year network average. Monthly gage totals varied 1.92 inches across the network, from 0.71 inches at site #21, Teheran Tower, south-southeast of Easton, to 2.63 inches at site #6, southwest of Green Valley. The 30-year (1991–2020) average precipitation amounts for the month of December at Havana and Mason City are 2.35 and 2.33 inches, respectively. The December 2021 network average of 1.94 inches is 82 percent of the 29-year (1993–2020) IVWA December network average of 1.60 inches.

Precipitation data from November 5–30 for gages #21 and #23 have been added to the November daily table and included on page 4 of this report.

# Imperial Valley Water Authority Precipitation (inches) December 2021



December 2021 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	0.07	0.08	0.07	0.10	0.05	0.07	0.11	0.08	0.06	-	0.01	0.10	0.07	0.16	0.13	0.09	0.02	0.15	0.09	0.24
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	0.08	0.10	0.07	0.04	-	0.09	-	-	0.01	-	-	0.12	0.01	0.04	0.04	0.06	0.01	0.03	-	0.09
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	0.54	1.30	0.57	1.62	0.97	0.54	1.01	1.40	0.85	0.52	0.55	0.77	0.48	1.02	1.09	0.65	0.29	0.72	0.76	1.13
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	0.04	-	0.02	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
15	0.01	0.02	0.00	0.01	-	0.01	0.01	-	-	-	0.00	-	-	-	0.00	-	0.03	0.01	-	0.03
16	-	-	-	-	-	-	-	-	-	0.01	0.01	-	-	-	-	-	-	-	-	-
17	0.04	0.06	0.03	0.14	0.09	0.03	0.09	0.04	0.09	-	0.02	0.09	0.07	0.09	0.06	0.05	-	0.05	0.08	0.11
18	0.04	0.04	0.01	0.04	0.02	0.01	0.04	0.02	0.03	0.04	0.01	0.03	0.03	0.03	0.04	0.03	-	0.03	0.03	0.02
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03
25	0.01	-	0.02	0.02	0.01	0.02	0.05	-	0.02	-	0.01	-	0.02	0.02	-	0.01	0.01	0.02	0.01	0.04
26	0.12	0.03	0.07	0.03	0.02	0.02	0.01	-	0.02	-	-	-	-	-	-	0.01	-	-	-	0.01
27	0.01	-	0.00	-	0.01	0.01	-	-	-	-	-	-	-	-	-	0.01	-	-	0.00	0.02
28	0.48	0.48	0.53	0.61	0.44	0.61	0.55	0.47	0.45	0.41	0.40	0.51	0.51	0.50	0.48	0.50	0.28	0.51	0.45	0.60
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	0.01	-	0.01	0.02	0.01	0.02	0.01	-	0.01	0.01	0.02	0.00	0.02	0.02	0.01	0.01	0.09	0.02	0.02	0.02
Monthly	1.44	2.11	1.42	2.63	1.61	1.42	1.88	2.01	1.54	0.99	1.02	1.61	1.21	1.86	1.87	1.41	0.71	1.52	1.43	2.35

Network Average = 1.60 Imperial Valley Network

November 2021 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	---	0.01	---	---	---	---	---	---	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.