



## **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 2021  
February 7, 2022

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### Raingage Network Operations

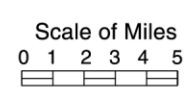
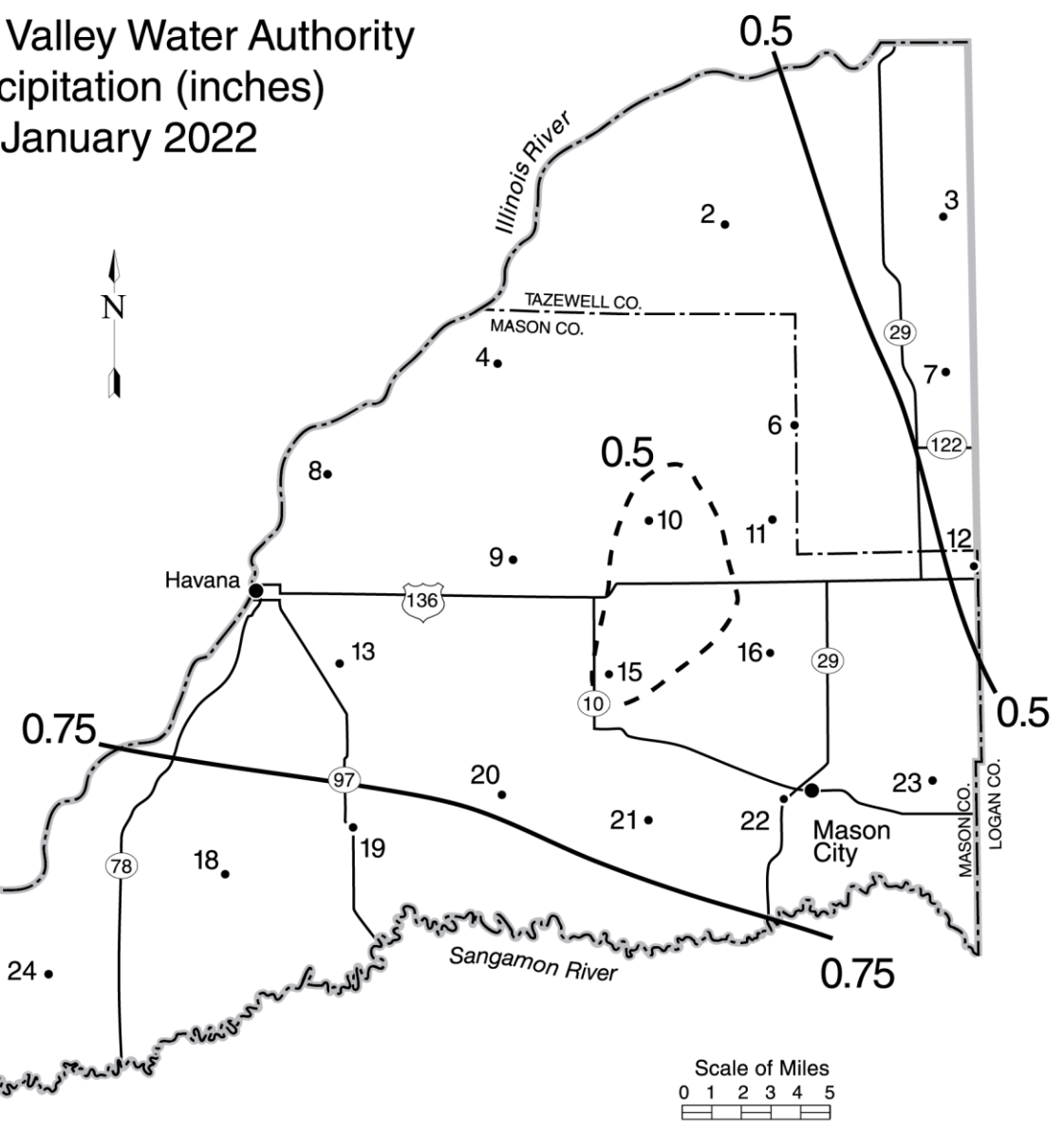
On January 31, Erin downloaded the data and weighed and tared the precipitation collections for all gages, except gages #9 and #12.

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 January 2022 was 0.58 inches, which is well below the previous 29-year network average. Monthly gage totals varied 0.47 inches across the network, from 0.38 inches at site #3, southeast of South Pekin, to 0.85 inches at site #24 near Snicarte. The 30-year (1991–2020) average precipitation amounts for the month of January at Havana and Mason City are 2.20 and 1.92 inches, respectively. The January 2022 network average of 0.58 inches is 31 percent of the 29-year (1993–2020) IVWA January network average of 1.88 inches. January 2022 was the second driest January in the last 30 years. January 2009 was the driest January which received 0.21 inches of precipitation.

# Imperial Valley Water Authority Precipitation (inches) January 2022



January 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	0.36	0.26	0.39	0.33	0.27	0.36	0.45	0.34	0.37	0.38	0.42	0.41	0.45	0.56	0.57	0.51	0.14	0.42	0.47	0.60
2	-	0.01	-	0.10	0.01	-	-	0.01	-	0.02	-	-	0.01	-	0.03	0.01	0.08	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	0.01	-	-	-	-	-	-	0.05	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	0.04	-	-	0.04	-	0.02	0.02	-	-	-	-	0.01	0.01	0.03	0.01	0.02	0.03	0.03	0.02	0.03
9	0.02	0.08	0.01	0.04	0.01	0.01	0.03	0.01	0.04	0.02	-	0.02	0.02	0.03	0.03	0.04	0.05	0.04	0.03	0.04
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	0.08	-	0.05	0.04	0.04	0.07	0.05	0.04	0.06	-	0.01	0.03	0.03	0.07	0.07	0.07	0.02	-	0.01	0.11
15	0.06	0.01	0.11	0.03	0.08	0.09	0.09	0.01	0.09	0.03	0.04	0.00	0.01	0.05	0.08	0.03	0.19	0.02	0.02	0.06
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	0.01	0.01	0.01	0.01	0.02	-	-	-	0.01	-	-	-	-	-	-	-	-	-
23	-	0.01	-	0.01	0.01	-	-	-	-	-	-	-	0.01	-	0.01	0.00	0.01	-	0.01	-
24	0.01	-	-	0.01	0.01	-	-	-	-	0.01	0.01	-	-	-	0.01	0.01	0.01	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	0.02	-	-	-	-	-	0.02	0.02	-	0.01	-	-	-	-	-	-	-	-	-	-
28	-	-	0.01	0.01	0.00	-	0.02	-	0.01	0.01	-	-	-	-	0.01	0.01	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	0.01	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	0.36	0.26	0.39	0.33	0.27	0.36	0.45	0.34	0.37	0.38	0.42	0.41	0.45	0.56	0.57	0.51	0.14	0.42	0.47	0.60
Monthly	0.61	0.38	0.58	0.61	0.43	0.56	0.70	0.42	0.56	0.49	0.49	0.48	0.53	0.74	0.81	0.70	0.59	0.52	0.56	0.85

Network Average = 0.58 Imperial Valley Network

January 2022 was the second driest January in the last 30 years.  
 January 2009 was the driest January, receiving 0.21 inches of precipitation.

