



## **PRAIRIE RESEARCH INSTITUTE**

Illinois State Water Survey  
2204 Griffith Drive  
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# OPERATION OF THE IMPERIAL VALLEY WATER AUTHORITY (IVWA) PRECIPITATION NETWORK

Monthly Progress Report for December 2022  
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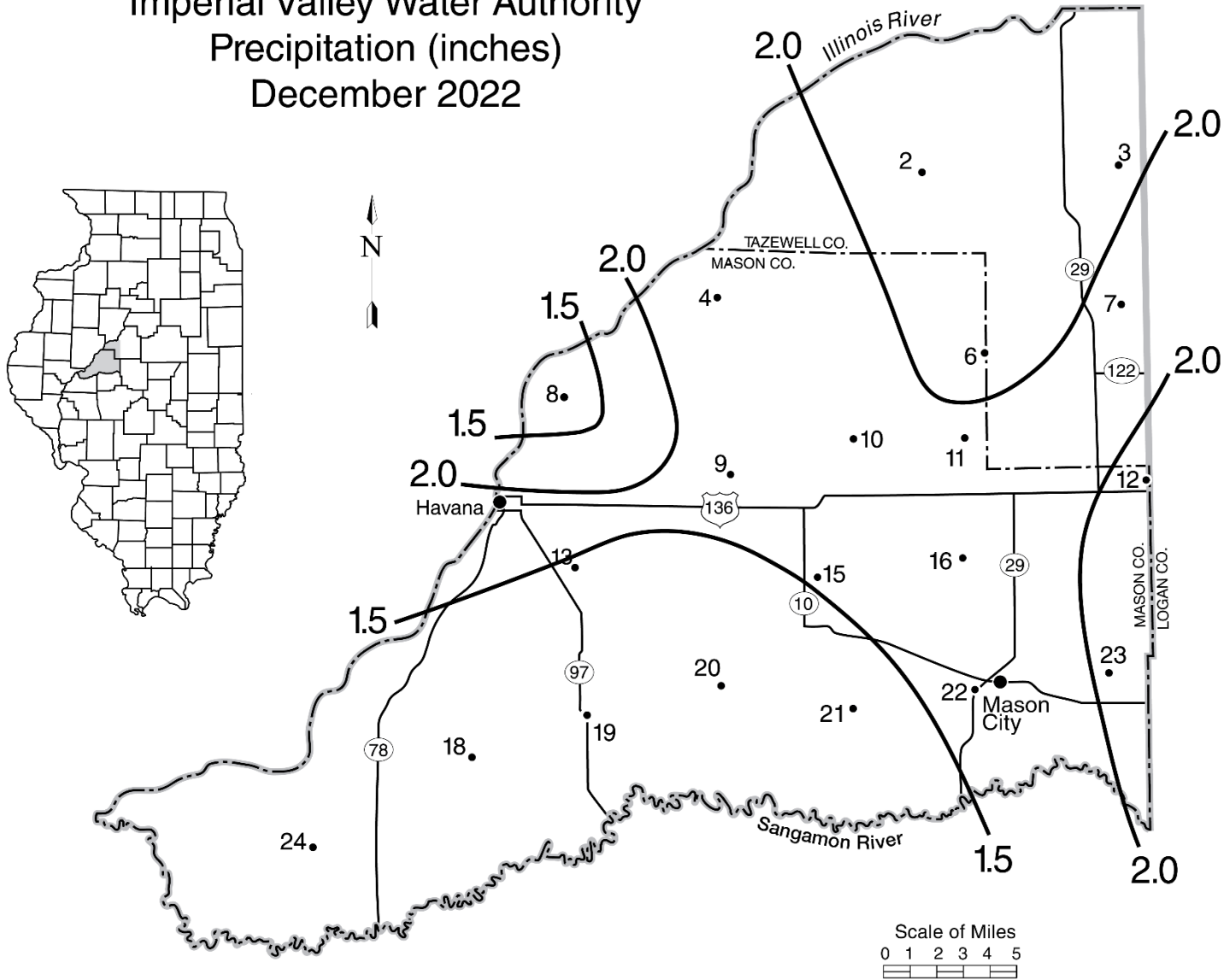
### Raingage Network Operations

On February 8, Emily Winfield downloaded the December and January data and weighed the precipitation collections at all the gages. 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 2022 was 1.72 inches, which is below the previous 29-year network average. Monthly gage totals varied 1.66 inches across the network, from 1.12 inches at site #18, west of Kilbourne to 2.78 inches at site #8, northeast of Havana. The 30-year (1991–2020) average precipitation amounts for the month of December at Havana and Mason City are 2.35 and 1.70 inches, respectively. The December 2022 network average of 1.72 inches is 89 percent of the 30-year (1992–2021) IVWA December network average of 1.93 inches.

# Imperial Valley Water Authority Precipitation (inches) December 2022



**December 2022 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
<b>DAY</b>																				
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	-	-	-	-	-	0.03
9	0.71	0.57	0.37	0.57	0.27	0.37	0.52	0.34	0.30	0.18	0.53	0.42	0.26	0.28	0.35	0.25	0.15	0.16	0.19	0.36
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	0.39	0.38	0.40	0.29	0.14	0.47	0.32	0.33	0.25	0.26	0.24	0.30	0.29	0.28	0.22	0.29	0.23	0.32	0.30	0.40
14	1.02	1.14	0.69	1.26	1.27	0.73	0.72	0.86	1.03	1.49	0.64	0.79	1.20	0.51	0.58	0.63	0.68	1.18	1.30	0.51
15	0.01	-	-	-	0.01	-	-	-	0.01	-	-	-	-	-	-	-	-	0.01	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	0.01	0.01	-	-	0.01	0.99	-	-	-	0.02	-	-	-	0.01	-	0.01	0.03	0.02	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	0.10	0.02	0.02	0.14	0.05	0.02	0.09	0.05	0.01	0.02	-	-	0.03	-	0.11	0.00	0.03	0.01	0.11	0.03
23	0.01	-	0.01	0.04	0.04	0.01	-	0.03	-	0.07	-	0.02	0.01	0.01	0.01	0.01	-	0.01	0.11	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
26	0.01	0.01	-	0.01	0.01	0.02	-	-	0.01	0.04	0.01	0.01	-	0.01	0.02	-	0.01	0.01	0.02	0.01
27	-	-	-	0.01	-	-	-	-	-	-	-	0.01	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	0.01	0.01	-	-	-	-	-	-	0.01	0.01	-	0.01	-	0.03	0.01	-	0.01
30	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	0.01	0.01	-	0.01	0.16	0.02	-	-	0.01	-	0.01	0.01	0.01	0.01	0.02	-	0.01	-	-
<b>Monthly</b>	<b>2.25</b>	<b>2.16</b>	<b>1.51</b>	<b>2.32</b>	<b>1.81</b>	<b>2.78</b>	<b>1.67</b>	<b>1.61</b>	<b>1.60</b>	<b>2.09</b>	<b>1.41</b>	<b>1.55</b>	<b>1.81</b>	<b>1.12</b>	<b>1.30</b>	<b>1.20</b>	<b>1.15</b>	<b>1.74</b>	<b>2.03</b>	<b>1.37</b>

**Network Average = 1.72 Imperial Valley Network**

The December 2022 network average is 89% of the 29-year (1992-2021) IVWA December network average of 1.93 inches.