



## **PRAIRIE RESEARCH INSTITUTE**

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

Monthly Progress Report for January 2023  
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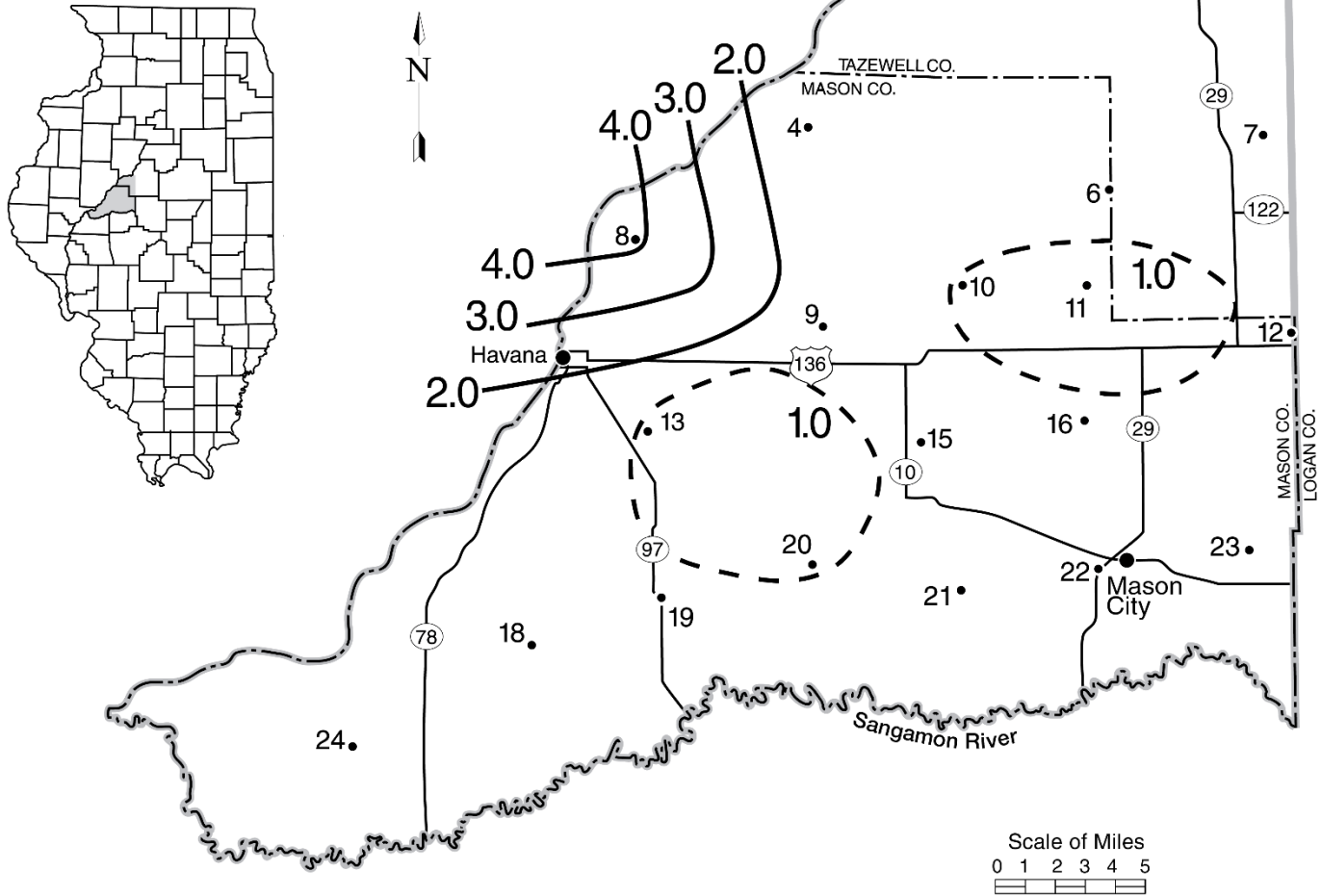
### Raingage Network Operations

On February 8, Emily Winfield downloaded the 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 January 2023 was 1.29 inches, which is well below the previous 30-year network average. Monthly gage totals varied 1.66 inches across the network, from 0.70 inches at site #13, southeast of Havana, to 4.20 inches at site #8, northeast of Havana. The 30-year (1991–2020) average precipitation amounts for the month of January at Havana and Mason City are 2.20 and 2.34 inches, respectively. The January 2023 network average of 1.29 inches is 69 percent of the 30-year (1993–2022) IVWA January network average of 1.88 inches.

# Imperial Valley Water Authority Precipitation (inches) January 2023



**January 2023 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	0.01	0.01	0.01	0.01	0.02	0.01	-	-	0.03	0.01	-	0.01	0.01	-	-	0.02	0.01	0.01	0.08	0.01
2	-	0.04	0.02	-	0.10	0.02	-	0.01	-	0.01	-	0.01	0.03	-	0.01	-	-	-	0.11	-
3	0.09	0.14	0.12	0.10	0.17	0.11	0.08	0.07	0.06	0.09	0.09	0.05	0.10	0.09	0.07	0.13	0.07	0.04	-	0.09
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	0.02	0.02	0.01	-	0.01	-	0.01	0.01	-	0.01	-	-	-	-	0.03	-	-	-	-
6	0.01	-	-	0.01	0.11	-	-	0.01	0.01	0.01	-	-	-	0.01	-	-	-	-	-	0.01
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	-
8	0.01	-	-	-	0.62	0.01	0.01	0.01	0.04	0.02	-	-	0.01	0.01	-	-	0.01	-	0.01	0.01
9	-	-	0.02	0.01	1.13	0.01	-	-	0.01	0.01	0.01	0.01	0.01	0.01	-	0.07	0.01	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	-
12	-	-	-	-	0.01	-	-	-	-	-	-	-	0.01	-	0.01	0.02	0.01	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.13	-
16	0.22	0.23	0.20	0.16	0.17	0.14	0.15	0.08	0.13	0.05	0.12	0.04	0.17	0.14	0.04	0.08	0.14	0.18	-	0.22
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.47	-
18	0.49	0.34	0.64	0.68	0.35	0.47	0.52	0.64	0.75	0.27	0.60	0.69	0.47	0.45	0.60	0.52	0.79	0.81	0.03	0.49
19	0.20	0.06	0.06	0.03	0.06	0.06	0.04	0.03	0.07	0.04	0.04	0.03	0.04	0.09	0.03	0.07	0.05	0.08	-	0.20
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04	-
22	0.02	0.01	0.02	0.02	0.03	-	-	0.01	-	-	0.01	0.01	0.03	0.02	0.02	-	0.01	0.01	-	0.02
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	0.28	-
25	0.19	0.17	0.23	0.14	0.32	0.28	0.19	0.20	0.08	0.17	0.18	0.16	0.24	0.30	0.21	0.09	0.15	0.17	-	0.19
26	-	-	0.01	0.01	-	-	-	-	0.02	-	-	0.01	0.01	0.02	-	-	0.02	0.01	-	-
27	0.02	-	0.02	0.01	1.10	0.02	-	0.01	0.03	0.01	-	0.02	-	0.01	-	0.10	0.01	0.01	-	0.02
28	-	-	0.01	0.02	0.01	0.03	-	0.01	0.01	-	0.01	0.01	-	-	-	-	-	0.01	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Monthly</b>	<b>1.24</b>	<b>1.24</b>	<b>1.02</b>	<b>1.36</b>	<b>1.21</b>	<b>4.20</b>	<b>1.17</b>	<b>0.99</b>	<b>1.07</b>	<b>1.25</b>	<b>0.70</b>	<b>1.06</b>	<b>1.06</b>	<b>1.11</b>	<b>1.13</b>	<b>0.99</b>	<b>1.13</b>	<b>1.29</b>	<b>1.34</b>	<b>1.19</b>

**Network Average = 1.29 Imperial Valley Network**

The January 2023 network average is 69% of the 30-year (1993–2022) IVWA January network average of 1.88 inches.