



## **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 May 2023  
June 14, 2023

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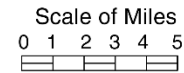
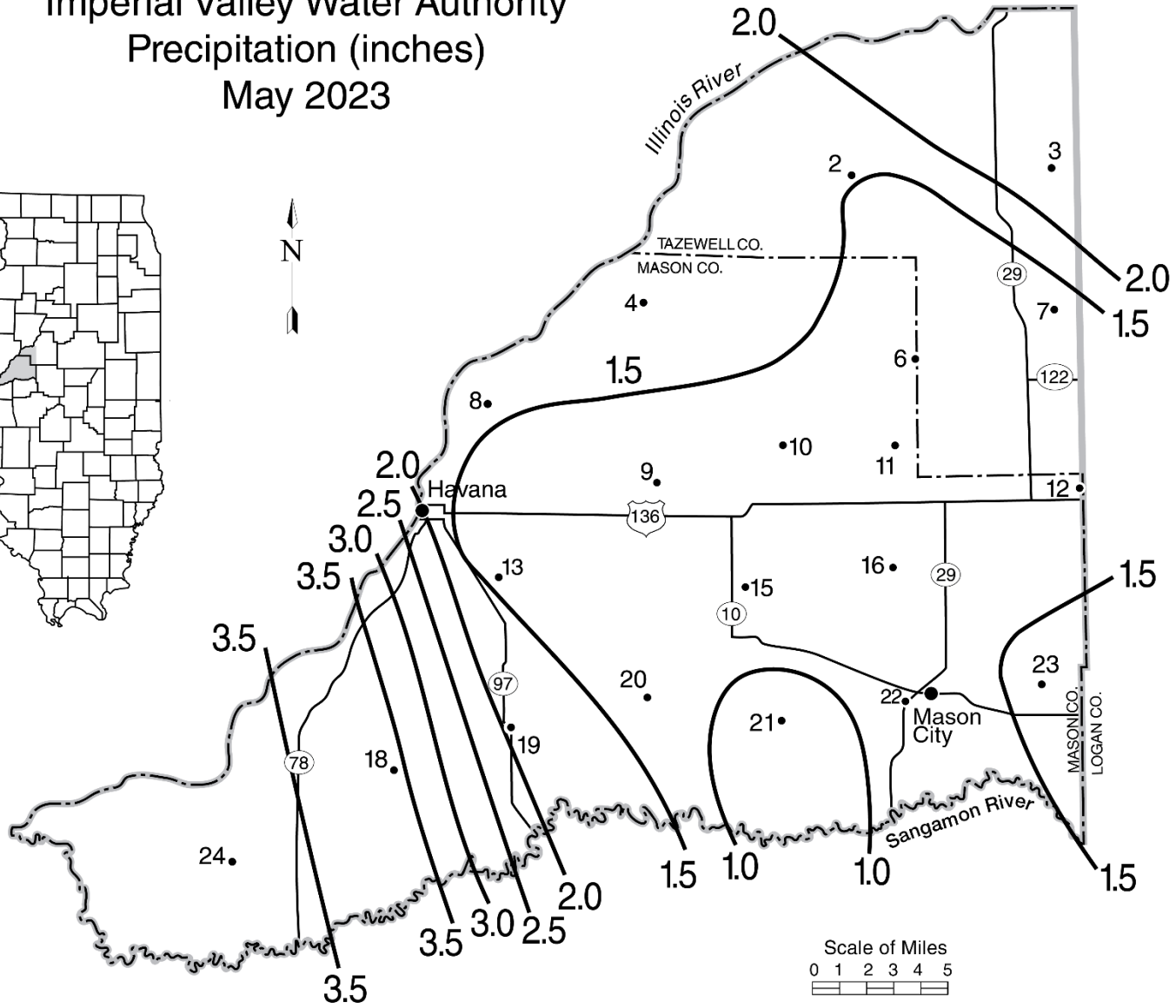
### Raingage Network Operations

On May 1, Emily Winfield downloaded the May precipitation data. The collections were weighed, and the buckets were emptied, cleaned, and tared. 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 May 2023 was 1.62 inches, which is well below the previous 30-year network average. Monthly gage totals varied 2.85 inches across the network, from 0.76 inches at site #21, at Teheran Tower, to 3.61 inches at site #18, west of Kilbourne. The 30-year (1991–2020) average precipitation amounts for the month of May at Havana and Mason City are 5.08 and 4.47 inches, respectively. The May 2023 network average of 1.62 inches is 38 percent of the 30-year (1993–2022) IVWA May network average of 4.28 inches. This was the second driest May recorded since data collection began in 1993. The driest May was in 2008.

# Imperial Valley Water Authority Precipitation (inches) May 2023



**May 2023 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	0.18	0.20	0.19	0.10	0.05	0.28	-	0.14	0.15	0.02	0.09	0.06	0.04	0.02	0.02	0.01	0.01	0.02	0.01	0.04
7	0.77	1.88	0.94	0.73	0.67	0.69	0.77	0.65	0.56	0.72	0.71	0.56	0.69	2.61	1.13	0.59	0.33	0.55	0.87	1.40
8	0.30	0.23	0.35	0.36	0.35	0.37	0.45	0.40	0.42	0.51	0.47	0.40	0.34	0.63	0.39	0.32	0.41	0.34	0.49	0.66
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	0.09	0.01	0.05	0.05	0.04	0.05	0.07	0.08	0.04	-	0.02	0.12	0.01	0.09	0.09	0.09	0.01	0.01	0.01	0.07
13	0.02	0.00	0.03	0.02	0.01	0.02	0.01	0.01	0.01	-	0.01	0.05	0.01	0.05	0.03	0.02	-	0.06	0.03	0.09
14	0.01	0.01	0.02	0.01	0.01	0.01	0.01	-	-	-	0.01	0.01	0.01	0.03	0.07	0.04	-	0.02	0.01	0.57
15	-	-	-	-	-	-	0.04	-	0.01	0.01	0.01	-	-	-	0.01	0.01	-	-	0.01	-
16	0.07	0.06	0.05	0.14	0.09	0.11	0.04	0.11	0.06	0.07	0.07	0.15	0.13	0.18	0.20	0.17	-	0.21	0.18	0.34
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	0.01	-	-	-	-	0.01	0.01	0.01	-	-	-	-	-	0.01	0.01	0.01
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Monthly</b>	<b>1.45</b>	<b>2.40</b>	<b>1.63</b>	<b>1.41</b>	<b>1.24</b>	<b>1.52</b>	<b>1.39</b>	<b>1.38</b>	<b>1.25</b>	<b>1.34</b>	<b>1.38</b>	<b>1.35</b>	<b>1.22</b>	<b>3.61</b>	<b>1.94</b>	<b>1.24</b>	<b>0.76</b>	<b>1.21</b>	<b>1.60</b>	<b>3.18</b>

**Network Average = 1.62 Imperial Valley Network**

The May 2023 network average is 38% of the 30-year (1993–2022) IVWA May network average of 4.28 inches. This was the second driest May recorded since data collection began in 1993. The driest May was in 2008.