



## **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 August 2023  
September 20, 2023

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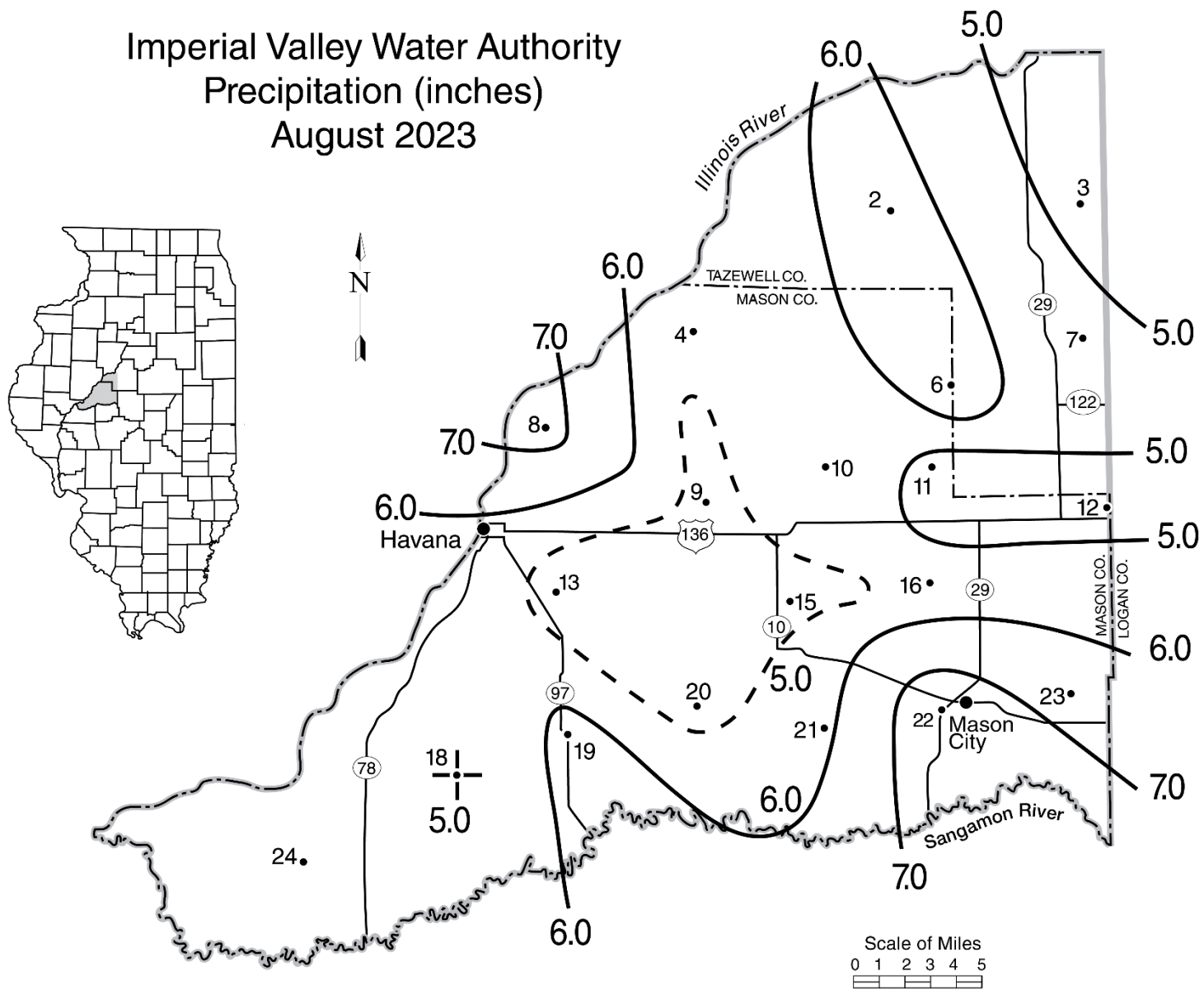
### Raingage Network Operations

On September 1 and 6, Emily Winfield downloaded the August precipitation data. The collections were weighed, and the buckets were emptied, cleaned, and tared, except for #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 August 2023 was 5.56 inches, which is well above the previous 30-year network average. Monthly gage totals varied 3.64 inches across the network, from 4.13 inches at site #13, southeast of Havana, to 7.77 inches at site #22, west of Mason City. The 30-year (1991–2020) average precipitation amounts for the month of August at Havana and Mason City are 4.02 and 3.57 inches, respectively. The August 2023 network average of 5.56 inches is 169 percent of the 30-year (1993–2022) IVWA August network average of 3.29 inches. This was the fourth wettest August recorded since data collection began in 1993.

# Imperial Valley Water Authority Precipitation (inches) August 2023



**August 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	-	-	-	0.01	0.01	-	-	-	0.01	-	-	-	-	-	-	-	-	0.00	-	-
2	0.01	0.02	0.01	0.01	0.01	0.05	-	0.01	0.01	-	0.02	0.00	-	0.08	0.08	0.04	-	0.02	0.02	0.20
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	0.01	0.01	-	-	-	0.01	-	-	-	-	-	-	-	-	0.01	-	-	0.01	-	-
5	2.28	1.57	1.99	2.51	1.66	2.45	2.01	2.73	2.25	1.81	1.95	1.84	1.98	2.26	2.73	2.17	2.71	4.05	3.05	1.36
6	0.50	0.34	0.41	0.27	0.28	0.58	0.22	0.43	0.36	0.55	0.34	0.42	0.39	0.40	0.37	0.39	0.64	0.52	0.55	0.35
7	0.45	0.59	0.26	0.22	0.46	0.32	0.32	0.22	0.30	0.55	0.55	0.67	0.81	0.27	0.38	0.33	0.42	0.55	0.65	0.13
8	-	-	-	0.01	0.01	0.85	0.01	-	-	-	-	-	0.22	0.01	-	0.02	-	0.00	0.02	-
9	0.18	0.08	0.14	0.15	0.14	0.21	0.15	0.11	0.15	0.04	0.07	0.22	0.21	0.61	0.87	0.61	0.24	0.51	0.45	0.68
10	0.01	-	-	0.01	0.02	-	-	-	-	-	0.01	-	-	-	-	-	-	-	-	-
11	1.13	1.10	0.63	0.77	1.17	1.27	1.53	0.97	0.69	0.91	0.58	1.21	1.25	0.87	1.05	0.91	0.89	1.53	1.47	0.80
12	-	0.01	0.00	-	-	0.01	-	0.01	-	0.02	-	-	0.01	0.25	0.19	0.02	-	0.00	0.00	0.22
13	0.01	-	0.00	0.00	0.02	-	0.01	-	-	-	-	-	-	-	0.01	-	-	0.01	0.01	-
14	-	-	-	-	-	-	-	0.00	-	-	-	-	0.00	-	-	-	-	0.03	0.01	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	0.01	0.03	0.22	0.19	0.13	0.04	0.08	0.00	0.01	0.01	0.01	0.04	0.15	0.09	0.00	0.01	0.20	0.09	0.02	0.02
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	0.01	0.56	1.10	0.85	0.63	0.24	0.12	0.34	0.27	0.31	0.25	0.02	0.13	0.76	0.02	0.01	0.40	0.27	0.70
26	1.83	0.89	0.86	1.13	0.58	0.69	0.21	1.12	0.56	0.55	0.30	0.02	0.17	0.02	0.03	0.04	0.35	0.02	0.02	0.82
27	-	0.01	0.03	-	-	0.01	-	0.00	-	0.02	0.01	0.01	-	-	-	-	0.18	-	-	-
28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	0.01	0.00	0.01	0.29	-	-	0.01	0.07	-	-	-	-	-	0.02	0.01	-	-	0.42
30	-	0.00	0.00	0.02	0.03	0.01	-	0.01	-	0.02	-	-	-	0.01	0.01	0.01	0.19	0.01	0.00	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>6.41</b>	<b>4.66</b>	<b>5.12</b>	<b>6.39</b>	<b>5.37</b>	<b>7.40</b>	<b>4.78</b>	<b>5.72</b>	<b>4.68</b>	<b>4.82</b>	<b>4.13</b>	<b>4.68</b>	<b>5.20</b>	<b>5.00</b>	<b>6.49</b>	<b>4.57</b>	<b>5.84</b>	<b>7.77</b>	<b>6.52</b>	<b>5.69</b>

**Network Average = 5.56 inches Imperial Valley Network** The August 2023 network average is 169 percent of the 30-year (1993–2022) IVWA August network average of 3.29 inches. This was the fourth wettest August recorded since data collection began in 1993.