



## **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 2022  
August 18, 2022

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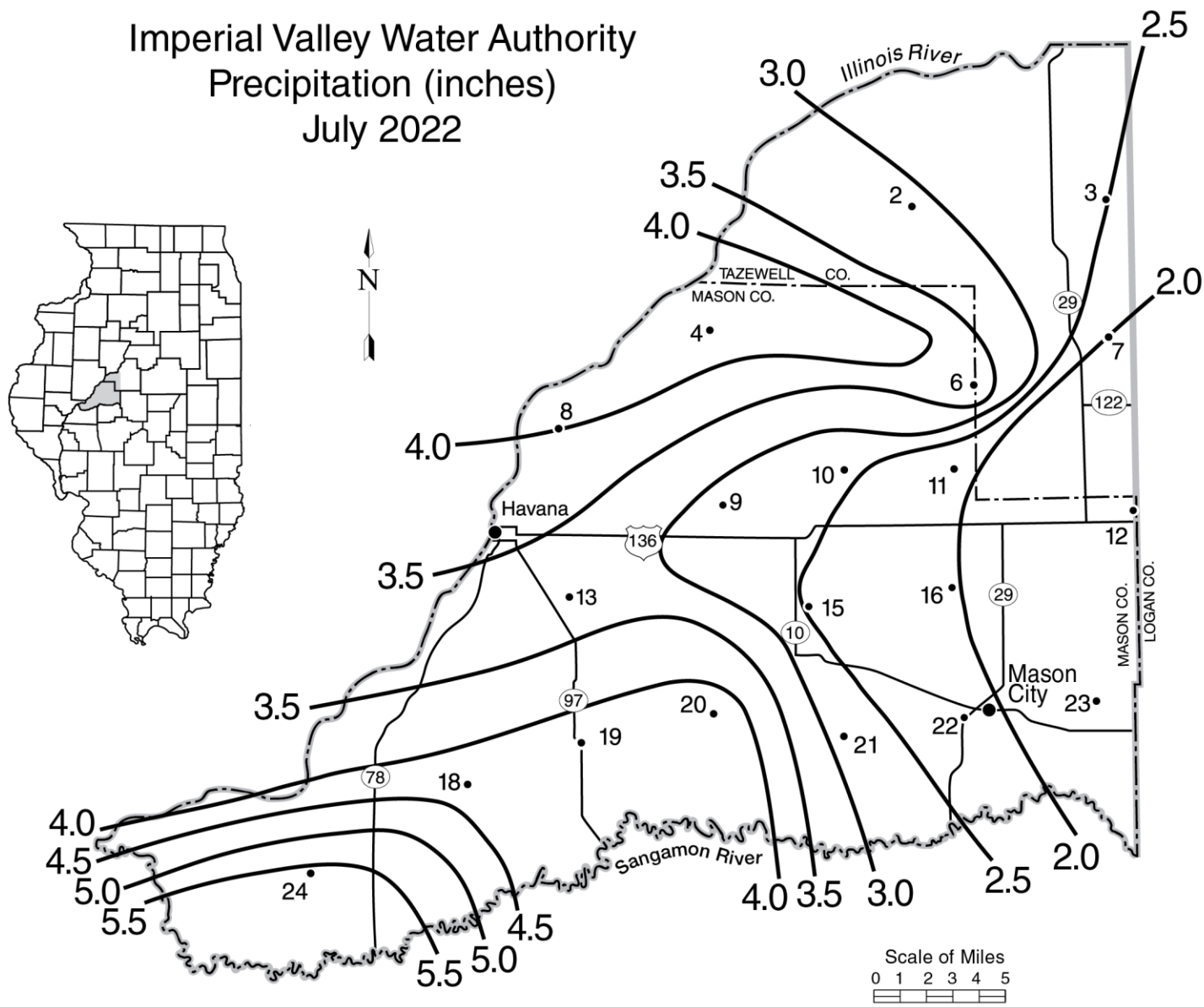
### Raingage Network Operations

On August 5, Erin downloaded the data, weighed the precipitation collections, and emptied, cleaned, and tared the buckets at all the gages, except gage #9 and #12. Gage #12 was leveled and calibrated with a correlation coefficient of 1.00000. Gage #7 data were estimated for July 12–31 because of a battery issue. 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 July 2022 was 3.25 inches, which is well-below the previous 29-year network average. Monthly gage totals varied 4.11 inches across the network, from 1.71 inches at site #23, east of Mason City, to 5.82 inches at site #24, southeast of Snicarte. The 30-year (1991–2020) average precipitation amounts for the month of July at Havana and Mason City are 4.18 and 5.14 inches, respectively. The July 2022 network average of 3.25 inches is 85 percent of the 29-year (1993–2021) IVWA July network average of 3.82 inches.

# Imperial Valley Water Authority Precipitation (inches) July 2022



**July 2022 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	0.52	0.50	0.41	0.68	0.34	-	0.88	0.06	0.03	-	-	-	0.01	0.01	0.01	0.01	-	0.01	0.01	0.00
2	-	-	-	-	0.01	4.00	3.79	-	0.01	1.76	3.14	2.46	0.01	-	-	-	0.02	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	0.02	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	0.07	0.01	0.08	0.06	-	-	-	0.02	-	-	-	-	0.06	0.11	0.13	0.04	0.02	0.02	0.01	0.23
7	0.45	0.44	0.85	0.74	0.26	-	-	0.76	0.69	-	-	-	0.65	1.21	0.95	0.87	0.69	0.60	0.52	1.28
8	1.14	0.68	2.52	1.08	0.51	-	-	1.21	0.80	-	-	-	0.68	2.39	2.67	2.91	1.79	0.85	0.51	3.75
9	-	-	-	-	-	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	0.01	0.00	0.05	0.14	*	-	-	0.02	0.01	-	-	-	-	-	-	0.02	-	0.02	0.01	-
14	0.16	0.30	0.01	0.25	*	-	-	0.01	0.05	-	-	-	0.01	-	0.02	0.06	0.07	0.02	0.01	-
15	0.42	0.32	0.27	0.37	*	-	-	0.26	0.25	-	-	-	0.25	0.23	0.26	0.14	0.07	0.22	0.29	0.25
16	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	0.05	0.02	0.06	0.14	*	-	-	0.11	0.04	-	-	-	0.07	0.14	0.12	0.08	0.03	0.07	0.05	0.22
18	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	0.24	0.25	0.02	0.33	*	-	-	0.11	0.16	-	-	-	0.27	0.03	0.10	0.10	0.05	0.17	0.24	0.02
25	0.01	0.01	0.01	-	*	-	-	-	0.02	-	-	-	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.00
26	0.01	0.00	-	-	*	-	-	-	-	-	-	-	-	0.05	0.02	0.02	-	0.02	-	0.07
27	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	0.08	0.04	0.12	0.05	-
28	-	-	-	0.02	*	-	-	-	-	-	-	-	-	0.04	0.03	0.03	0.04	0.01	0.02	-
29	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Monthly</b>	<b>3.10</b>	<b>2.54</b>	<b>4.27</b>	<b>3.83</b>	<b>2.0*</b>	<b>4.00</b>	<b>4.67</b>	<b>2.56</b>	<b>2.04</b>	<b>1.76</b>	<b>3.14</b>	<b>2.46</b>	<b>2.01</b>	<b>4.22</b>	<b>4.31</b>	<b>4.36</b>	<b>2.82</b>	<b>2.12</b>	<b>1.71</b>	<b>5.82</b>

Network Average = 3.25 Imperial Valley Network

\* Precipitation to be estimated

The July 2022 network average is 85 percent of the 29-year (1993–2021) IVWA July network average of 3.82 inches.