



## **PRAIRIE RESEARCH INSTITUTE**

Illinois State Water Survey  
2204 Griffith Drive  
Champaign, IL 61820

# OPERATION OF THE IMPERIAL VALLEY WATER AUTHORITY (IVWA) PRECIPITATION NETWORK

Monthly Progress Report for June 2022  
July 18, 2022

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### Raingage Network Operations

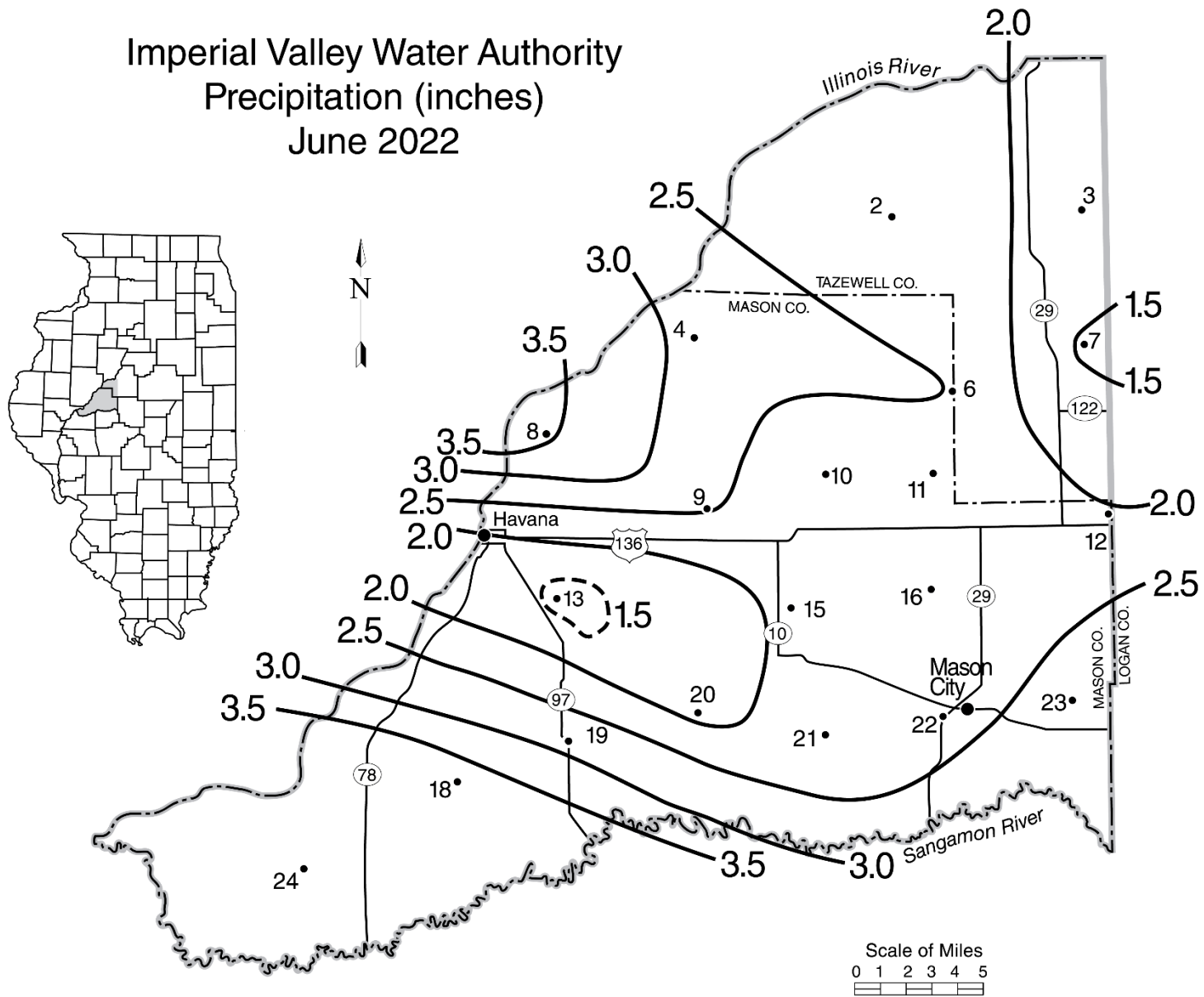
On July 12, Erin downloaded the data, weighed the precipitation collections, and emptied, cleaned, and tared the buckets at all the gages, except gage #9. Gages #20 and 22 were calibrated with a correlation coefficient of 1.00000; gages #2 and 4 were calibrated with a coefficient of 0.99999. Gage #13 and 21 were calibrated with a coefficient of 0.99994 and 0.99991, respectively. Precipitation data for gages #9 and #12 are downloaded by modem every hour to an Illinois State Water Survey server.

On June 1, 2022, gages #3, 7, and 18 were calibrated with a correlation coefficient of 0.99999; gages #19 and 23 were calibrated with a coefficient of 0.99998. Gage #6 was calibrated with a coefficient of 1.00000.

### Data Analysis

The average network precipitation for June 2022 was 2.35 inches, which is well-below the previous 29-year network average. Monthly gage totals varied 2.38 inches across the network, from 1.34 inches at site #13, southeast of Havana, to 3.72 inches at site #18, south of Sand Prairie-Scrub Oak Nature Preserve. The 30-year (1991–2020) average precipitation amounts for the month of June at Havana and Mason City are 4.73 and 4.20 inches, respectively. The June 2022 network average of 2.35 inches is 55 percent of the 29-year (1993–2021) IVWA June network average of 4.24 inches. Data from site #24 are not available and will be reported next month.

# Imperial Valley Water Authority Precipitation (inches) June 2022



**June 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	0.48	0.43	0.68	0.83	0.69	1.21	1.03	0.93	0.93	0.56	1.12	1.07	0.90	0.92	1.00	0.90	0.76	0.91	1.01	N/A	
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
6	-	0.00	-	0.01	-	-	-	-	-	-	-	-	0.01	0.06	0.03	-	-	0.01	-	-	N/A
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
8	0.17	0.16	0.21	0.16	0.15	0.25	0.08	0.14	0.11	0.38	0.11	0.19	0.17	0.60	0.36	0.24	0.19	0.22	0.14	N/A	
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
10	0.11	0.07	0.08	0.11	0.11	0.06	0.05	0.05	-	0.04	0.01	0.02	0.03	0.02	0.02	-	0.01	-	0.02	N/A	
11	0.01	0.02	0.01	0.02	0.02	-	-	0.01	-	0.02	0.01	-	0.01	-	0.06	0.01	-	0.01	0.00	N/A	
12	0.01	0.02	0.49	0.14	-	0.10	0.01	0.16	0.34	0.02	0.01	0.02	0.01	0.66	0.76	0.08	0.10	0.02	0.01	N/A	
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
15	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	-	-	-	-	-	-	N/A
16	0.10	0.03	0.01	0.04	0.01	0.02	-	0.01	0.01	0.02	0.01	-	-	-	0.02	0.01	-	0.02	0.01	N/A	
17	-	0.03	-	0.02	0.01	0.07	-	0.02	-	0.03	0.01	0.02	0.03	0.08	0.03	0.02	0.07	0.04	0.02	N/A	
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
25	1.21	1.20	1.37	1.16	0.43	1.87	1.39	0.89	0.87	0.95	0.06	0.76	0.88	1.37	0.62	0.58	1.03	0.92	1.64	N/A	
26	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.03	0.01	0.02	0.02	0.02	0.02	0.02	0.08	0.01	0.02	N/A	
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A
<b>Monthly</b>	<b>2.11</b>	<b>1.94</b>	<b>2.86</b>	<b>2.49</b>	<b>1.43</b>	<b>3.59</b>	<b>2.57</b>	<b>2.22</b>	<b>2.27</b>	<b>2.05</b>	<b>1.34</b>	<b>2.10</b>	<b>2.05</b>	<b>3.72</b>	<b>2.90</b>	<b>1.86</b>	<b>2.24</b>	<b>2.15</b>	<b>2.86</b>	<b>N/A</b>	

**Network Average = 2.35 Imperial Valley Network**

The June 2022 network average is 55 percent of the 29-year (1993–2021) IVWA June network average of 4.24 inches.