



## **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 March 2021  
April 14, 2021

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### Raingage Network Operations

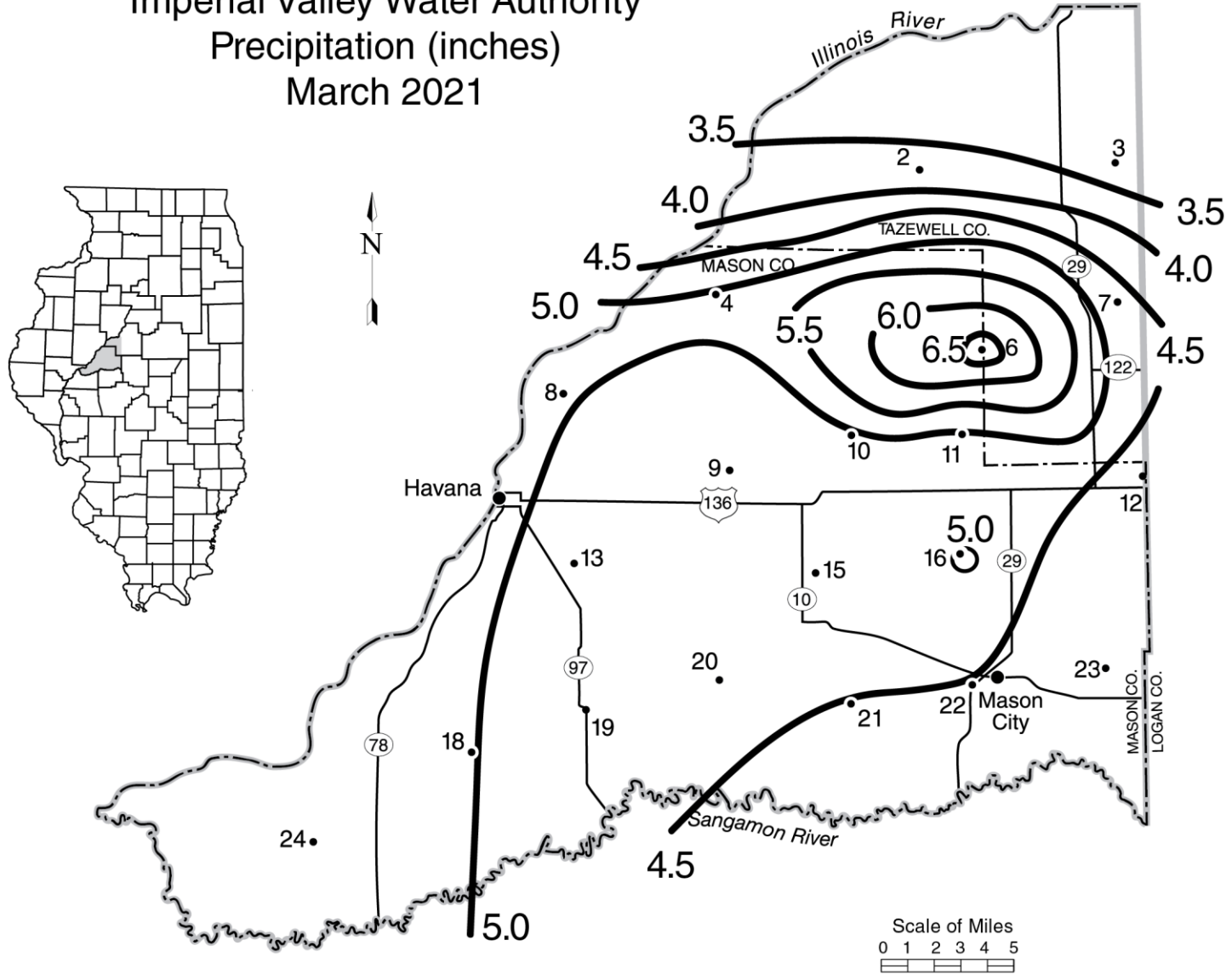
On April 1, Erin downloaded the data, weighed the precipitation collections, and emptied, cleaned, and tared the buckets for all gages.

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 March 2021 was 4.70 inches, which is well above the previous 28-year network average and the wettest March of the precipitation network's 29 years of record. For comparison, March 2007 precipitation was 4.66 inches and March 2009 precipitation was 4.50. Monthly gage totals varied 3.45 inches across the network, from 3.20 inches at site #3, southeast of South Pekin, to 6.65 inches at site #6, southeast of Manito. The 1981–2010 30-year average precipitation amounts for March at Havana and Mason City are 2.81 and 2.49 inches, respectively. The March 2021 network average of 4.70 inches is 201 percent of the 28-year (1993–2020) IVWA March network average of 2.25 inches.

# Imperial Valley Water Authority Precipitation (inches) March 2021



March 2021 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	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
11	0.15	0.06	0.12	0.25	0.15	0.12	0.18	0.23	0.11	0.11	0.01	0.18	0.25	0.07	0.11	0.10	0.11	0.17	0.18	0.17	
12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
14	----	----	----	0.01	----	----	----	----	----	----	----	0.03	----	0.07	0.02	----	0.02	0.01	----	0.10	
15	0.66	0.83	0.73	0.82	0.76	0.73	0.56	0.72	0.61	0.63	0.52	0.70	0.73	0.61	0.65	0.77	0.58	0.67	0.64	0.63	
16	0.02	----	0.02	0.02	0.01	0.04	0.02	0.07	----	0.01	0.03	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	----	
17	0.89	0.55	1.14	1.15	0.67	1.01	1.10	0.80	0.95	0.71	1.08	0.99	0.96	1.14	0.96	1.11	0.95	0.85	0.75	1.02	
18	1.01	0.67	1.85	2.39	1.24	1.81	1.50	1.37	1.45	1.60	1.98	1.46	1.76	1.87	1.66	1.59	1.36	1.59	1.49	1.98	
19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
23	0.40	0.27	0.26	0.41	0.47	0.30	0.12	0.37	0.26	0.12	0.20	0.35	0.40	0.45	0.17	0.35	0.47	0.31	0.41	0.30	
24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
25	0.49	0.26	0.66	0.50	0.33	0.51	0.60	0.52	0.35	0.27	0.44	0.40	0.51	0.46	0.54	0.42	0.39	0.39	0.48	0.59	
26	0.01	0.01	0.04	0.07	0.04	0.03	0.03	0.05	0.06	0.10	0.04	0.03	0.02	0.01	0.05	0.03	0.01	0.02	0.02	----	
27	0.21	0.55	0.27	1.03	0.98	0.47	0.65	0.79	0.93	0.49	0.47	0.50	0.39	0.33	0.39	0.35	0.51	0.43	0.34	0.37	
28	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Monthly	3.84	3.20	5.09	6.65	4.65	5.02	4.76	4.92	4.72	4.04	4.77	4.65	5.03	5.02	4.57	4.74	4.42	4.46	4.32	5.16	
Network Average =	4.70		Imperial Valley Network																		