



## **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 February 2018

March 14, 2018

Reaffirmed April 16, 2018

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### Raingage Network Operations

Dana Grabowski serviced all gages and downloaded the digital data on March 1, 2018. During the site visits, a new bucket tier weight was recorded. The buckets were not emptied in order to retain the antifreeze throughout the winter.

### Data Analysis

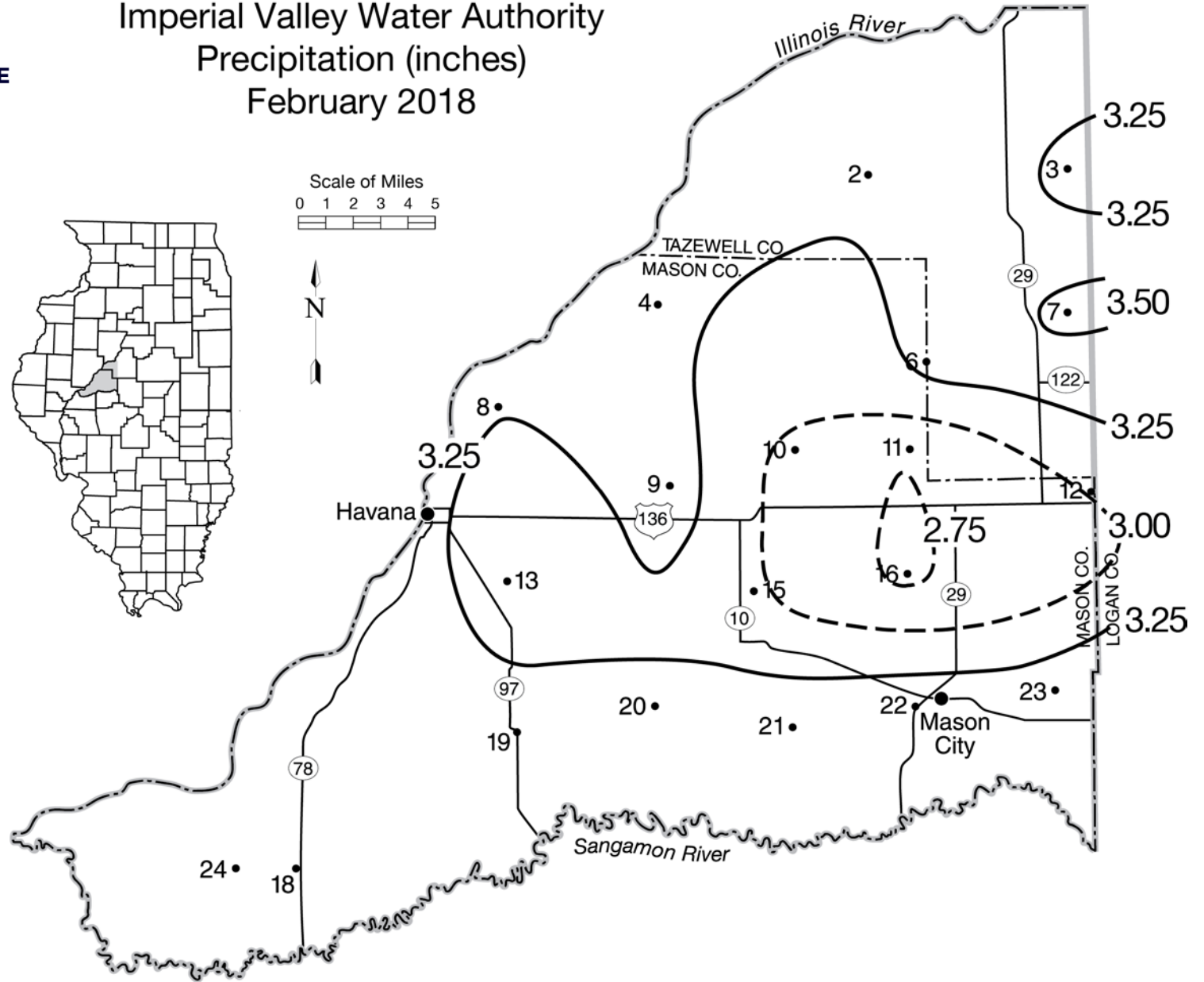
The average network precipitation for February 2018 was 3.21 inches, well-above the latest 25-year monthly network average. The largest monthly gage precipitation total was localized in the northeast at site #7, while regionally, the largest monthly precipitation occurred along the southern boundary of the network. The smallest gage totals were in the central portion of the network. Monthly gage totals varied 0.85 inches across the network, from 2.70 inches at site #16, west of San Jose, to 3.55 inches at site #7, near Green Valley. The 1981–2010, 30-year average precipitation amounts for February at Havana and Mason City are 2.10 and 1.61 inches, respectively. The February 2018 network average of 3.21 inches is 196 percent of the 25-year (1993–2017) IVWA February network average of 1.64 inches.

February 2018 was the third wettest February since 1993. February 1997 had 3.86 inches of precipitation followed by February 2008 with 3.44 inches.

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### Imperial Valley Water Authority Precipitation (inches) February 2018





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**February 2018 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	0.01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	0.01	----	----	----
5	0.20	0.11	0.13	0.08	0.15	0.11	0.15	0.14	0.03	0.02	0.08	0.11	0.10	0.12	0.13	0.06	0.07	0.07	0.04	----
6	0.03	0.03	0.02	0.03	----	0.03	0.02	0.03	0.02	0.03	0.01	0.02	0.02	----	0.01	0.02	0.03	0.04	0.01	----
7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10	0.13	0.01	0.08	0.06	0.07	0.07	0.08	0.09	0.08	0.11	0.09	0.10	0.12	0.20	0.17	0.10	0.09	0.01	0.02	0.06
11	0.09	0.09	0.03	0.07	0.03	0.02	0.10	0.05	0.03	0.01	0.04	0.05	0.05	0.04	0.06	0.06	0.06	0.12	0.08	0.13
12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
15	0.03	----	0.01	0.04	0.03	0.04	0.03	0.01	----	0.04	0.03	0.03	0.02	0.04	0.02	0.03	0.02	0.04	----	0.02
16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
17	0.07	0.08	0.06	0.09	0.06	0.09	0.09	0.03	0.03	0.06	0.05	0.06	0.07	0.09	0.08	0.04	0.06	0.08	0.07	0.08
18	0.03	0.01	0.01	0.03	----	0.02	0.01	0.01	0.03	0.01	0.02	0.02	0.01	----	0.03	0.02	0.02	0.02	----	0.02
19	0.55	0.63	0.48	0.72	0.64	0.56	0.51	0.59	0.52	0.54	0.49	0.61	0.44	0.58	0.61	0.54	0.31	0.61	0.40	0.56
20	1.30	1.36	1.35	1.36	1.33	1.22	1.55	1.30	1.27	1.39	1.45	1.34	1.25	1.53	1.53	1.47	1.74	1.51	1.85	1.55
21	0.04	0.09	0.03	0.10	0.07	0.02	0.15	0.13	0.07	0.27	0.06	0.04	0.05	----	0.13	0.09	0.12	0.11	0.30	0.12
22	0.07	0.07	0.12	0.07	0.11	0.08	0.03	0.04	0.26	0.01	0.09	0.13	0.09	0.11	0.04	0.12	0.20	0.13	0.05	0.03
23	0.20	0.19	0.17	0.08	0.09	0.19	0.17	0.12	----	0.06	0.16	0.07	0.07	0.14	0.11	0.08	0.10	0.10	0.03	0.15
24	0.32	0.35	0.36	0.22	0.46	0.37	0.44	0.38	0.42	0.46	0.48	0.42	0.36	0.55	0.43	0.46	0.49	0.48	0.46	0.54
25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
27	----	----	----	0.02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
28	0.26	0.22	0.53	0.32	0.51	0.45	0.01	0.02	----	----	----	0.03	0.05	0.02	0.05	0.02	0.05	0.12	0.06	0.01
Monthly	3.33	3.24	3.38	3.29	3.55	3.27	3.34	2.94	2.76	3.01	3.05	3.03	2.70	3.42	3.40	3.11	3.37	3.44	3.37	3.27
Network Average =	3.21		Imperial Valley Network																	