

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

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Illinois State Water Survey
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OPERATION OF THE IMPERIAL VALLEY WATER AUTHORITY
(IVWA) PRECIPITATION NETWORK

Monthly Progress Report for July 2016

August 9, 2016

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Raingage Network Operations

Dana Grabowski serviced all gages and downloaded the July 2016 digital data on August 2, 2016. Data have been processed, quality controlled, and analyzed. All gages and data loggers operated properly.

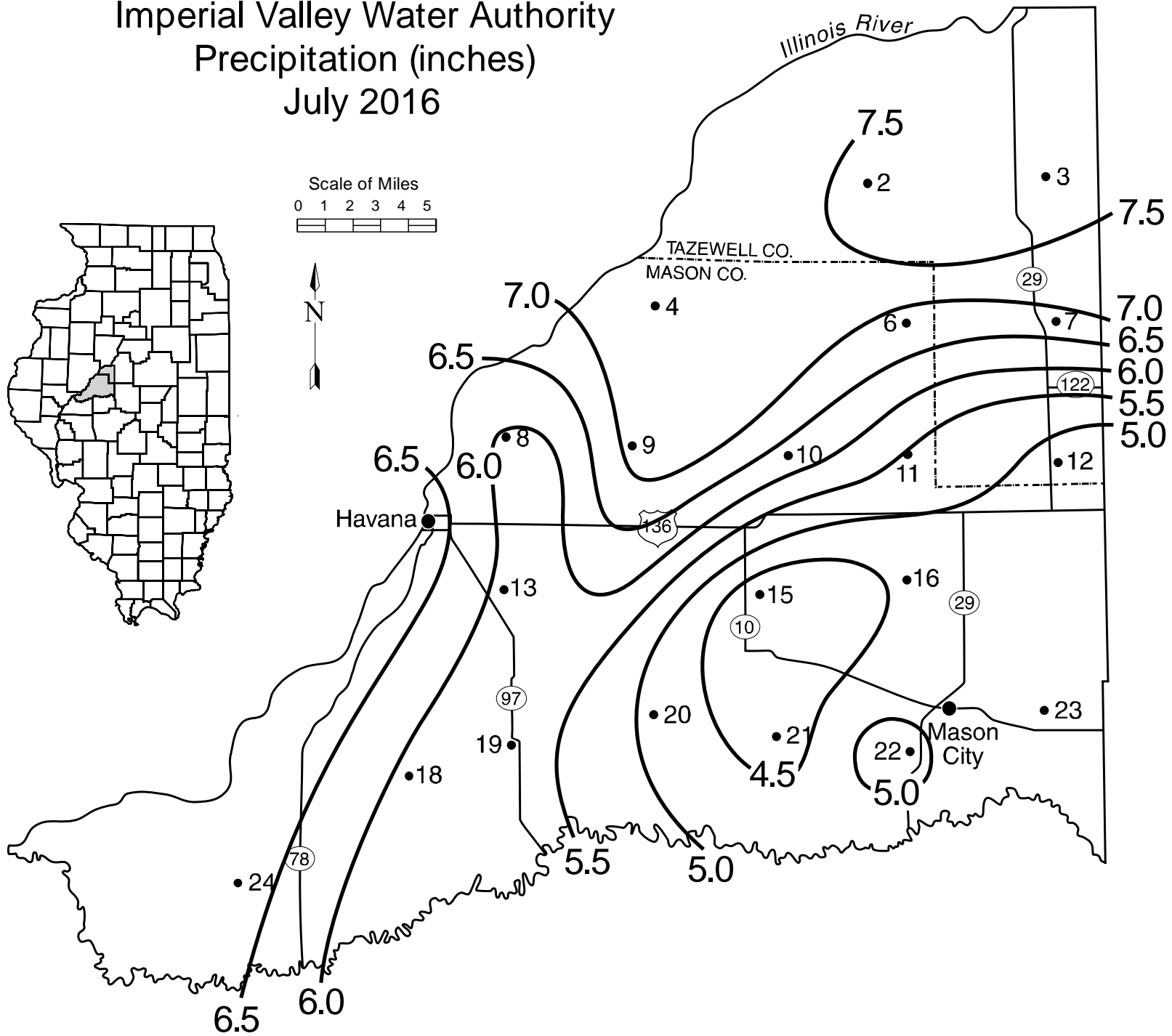
During her visit, Dana weighted, emptied, and cleaned all buckets. She performed a calibration check at Site #21 and adjusted the calibration coefficients.

I will be retiring at the end of August in my 40th year at the ISWS, after managing the network for some 14 years. I am pleased to announce that the network will be left in able hands with Erin Bauer taking over management of the network, and Dana Grabowski continuing in the role of field technician. Thank you for your support over the years, and best wishes to you all!

Data Analysis

Precipitation during July 2016 was above average. Monthly gage totals were largest in the northern and northwestern portions of the network and smallest in the south-central region. Individual gage amounts ranged from 7.82 inches at Site #3 to 4.34 inches at Site #15. The 1981-2010, 30-year average precipitation amounts for July at Havana and Mason City are 4.04 and 4.60 inches, respectively. The July 2016 network average of 5.93 inches is about 161 percent of the 23-year (1993-2015) IVWA July network average of 3.69 inches.

Imperial Valley Water Authority Precipitation (inches) July 2016



July 2016 Daily and Monthly Precipitation Amounts (inches), Imperial Valley Network

Site

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	----	----	----	----	----	----	----	----	----	----	----	----	----	0.18	0.07	0.01	0.01	----	----	0.06
3	0.44	0.39	0.39	0.31	0.31	0.46	0.48	0.45	0.37	0.38	0.57	0.47	0.48	0.55	0.51	0.45	0.46	0.44	0.30	0.38
4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
6	1.06	1.46	0.75	0.70	0.61	0.94	0.99	0.93	1.11	0.67	1.39	0.87	1.02	1.56	1.45	0.99	1.13	1.30	0.69	1.64
7	0.28	0.21	0.44	0.48	0.31	0.57	0.38	0.14	0.20	0.27	0.19	0.18	0.12	0.32	0.18	0.15	0.11	0.12	0.18	0.39
8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
12	----	0.02	0.09	0.03	----	0.17	0.23	0.12	----	----	0.56	0.18	0.02	----	0.07	0.22	0.45	0.29	0.22	0.10
13	0.51	1.18	0.33	0.29	0.37	0.40	0.44	0.81	0.43	0.62	0.39	0.39	0.54	0.21	0.24	0.43	0.40	0.58	0.80	0.56
14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
17	0.39	0.10	0.58	0.58	0.26	0.56	0.20	0.63	0.66	0.40	0.11	0.27	0.62	0.10	0.06	0.04	0.27	0.65	0.99	0.08
18	0.85	0.68	0.89	0.94	0.60	0.61	0.87	0.47	0.35	0.94	0.32	0.52	0.46	0.03	0.24	0.36	0.53	0.67	0.42	----
19	0.96	0.34	0.82	0.22	0.05	0.24	0.97	0.45	0.11	0.09	0.27	0.14	0.29	1.44	1.00	0.90	0.05	0.09	0.25	0.76
20	0.02	0.01	0.03	0.06	0.05	0.22	0.14	0.05	0.08	0.01	0.05	0.20	0.03	0.14	0.10	0.10	0.11	0.13	0.06	0.83
21	0.51	0.72	----	----	0.70	----	----	----	----	----	----	----	----	----	----	----	----	----	0.14	----
22	1.41	1.39	1.82	1.51	1.57	1.55	2.67	2.45	1.81	1.04	1.61	1.02	0.86	1.28	1.13	0.87	0.74	0.71	0.50	1.14
23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
24	1.09	0.63	1.11	0.83	1.25	0.16	----	----	0.30	0.41	----	----	----	----	----	----	0.14	0.01	----	----
25	0.01	0.16	0.02	0.26	0.53	0.01	----	----	0.01	0.03	----	----	0.03	----	----	----	----	----	----	----
26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
27	----	----	----	----	0.35	----	----	----	----	----	0.47	0.01	----	0.16	0.75	0.09	----	0.01	----	0.92
28	----	0.53	----	0.37	0.02	----	0.01	----	----	0.01	0.03	0.07	0.05	----	0.01	0.02	0.01	0.04	0.01	0.01
29	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
30	----	----	----	0.09	----	0.07	----	0.05	----	----	----	0.02	0.01	----	----	----	----	----	----	----
31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Monthly	7.53	7.82	7.27	6.67	6.98	5.96	7.38	6.55	5.43	4.87	5.96	4.34	4.53	5.97	5.81	4.63	4.41	5.04	4.56	6.87

Network Average = 5.93 Imperial Valley Network