

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

Monthly Progress Report for May 2016

June 7, 2016

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Raingage Network Operations

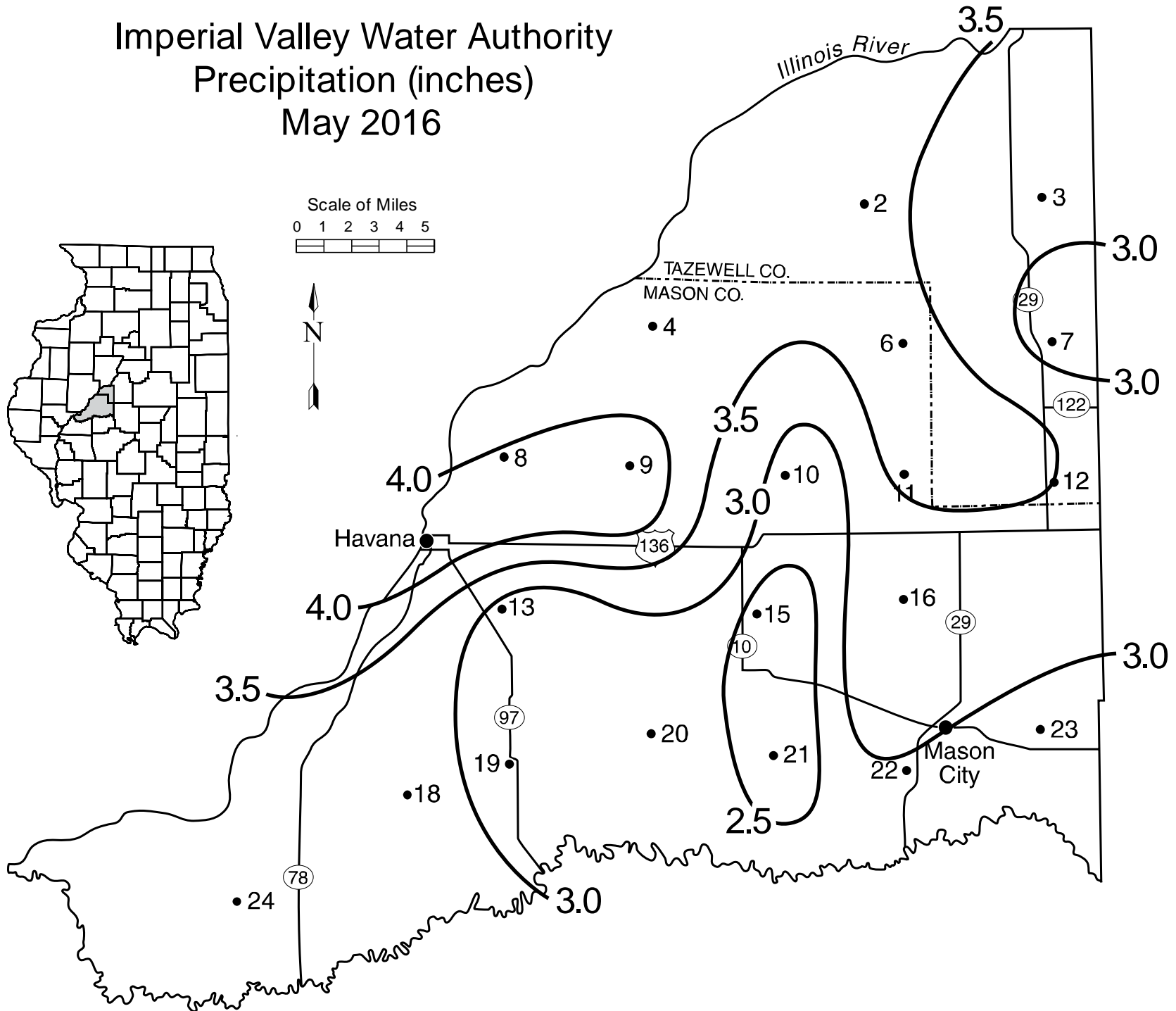
Dana Grabowski serviced all gages and downloaded the May 2016 digital data on June 2, 2016. Data have been processed, quality controlled, and analyzed. All gages and data loggers operated properly.

During her visit, Dana weighted, emptied, and cleaned all buckets. The gage at Site #12 was leveled. She performed a calibration check at Sites #7, #10, #11, and #12, but the calibration needed to be adjusted only at Site #7. Two ant traps were placed in the gage at Site #8.

Data Analysis

Precipitation during May 2016 was moderate. Monthly gage totals were largest in the western portion of the network and smallest in the south-central region. Individual gage amounts ranged from 4.42 inches at Site #9 to 2.42 inches at Site #15. The 1981-2010, 30-year average precipitation amounts for May at Havana and Mason City are 4.79 and 4.07 inches, respectively. The May 2016 network average of 3.22 inches is about 76 percent of the 23-year (1993-2015) IVWA May network average of 4.25 inches.

Imperial Valley Water Authority Precipitation (inches) May 2016



May 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 | 0.03 | ---- | 0.02 | 0.01 | ---- | 0.03 | 0.06 | 0.02 | 0.02 | ---- | ---- | 0.03 | 0.02 | 0.01 | ---- | 0.03 | 0.03 | 0.08 | 0.07 | ---- |
| 2 | ---- | ---- | ---- | 0.01 | ---- | 0.02 | 0.01 | 0.10 | 0.01 | ---- | ---- | 0.01 | ---- | 0.03 | 0.01 | 0.01 | ---- | 0.03 | 0.03 | ---- |
| 3 | ---- | ---- | ---- | ---- | 0.01 | ---- | 0.01 | ---- | 0.01 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.01 | ---- | ---- |
| 4 | 0.14 | 0.14 | 0.06 | 0.16 | 0.07 | 0.13 | 0.11 | 0.09 | 0.09 | 0.09 | 0.06 | 0.11 | 0.04 | 0.06 | 0.02 | 0.12 | 0.11 | 0.11 | 0.06 | 0.06 |
| 5 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 6 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 7 | ---- | ---- | 0.01 | 0.01 | ---- | 0.01 | 0.02 | ---- | 0.01 | ---- | 0.03 | 0.01 | 0.01 | 0.12 | 0.16 | ---- | 0.04 | 0.03 | ---- | ---- |
| 8 | 0.32 | 0.15 | 0.45 | 0.46 | 0.20 | 0.56 | 0.73 | 0.67 | 0.72 | 0.63 | 0.81 | 0.83 | 0.88 | 0.74 | 1.11 | 1.13 | 0.97 | 0.95 | 0.81 | 1.27 |
| 9 | 0.66 | 0.70 | 0.67 | 1.11 | 0.85 | 0.42 | 0.80 | 0.57 | 1.04 | 0.85 | 0.71 | 0.46 | 0.91 | 1.13 | 0.48 | 0.68 | 0.44 | 0.57 | 0.46 | 0.29 |
| 10 | 0.30 | 0.14 | 0.22 | 0.10 | 0.04 | 0.23 | 0.02 | 0.07 | 0.06 | 0.02 | 0.01 | 0.05 | 0.01 | ---- | 0.04 | 0.03 | 0.02 | 0.01 | 0.04 | 0.02 |
| 11 | 0.01 | ---- | 0.09 | ---- | ---- | 0.09 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.07 | 0.10 | 0.04 | 0.01 | 0.01 | ---- | ---- |
| 12 | 0.01 | ---- | 0.04 | ---- | ---- | 0.03 | 0.01 | ---- | 0.01 | 0.01 | ---- | 0.02 | 0.02 | 0.03 | 0.06 | 0.03 | ---- | 0.01 | 0.02 | 0.01 |
| 13 | 0.31 | 0.31 | 0.20 | 0.23 | 0.22 | 0.23 | 0.15 | 0.19 | 0.19 | 0.21 | 0.18 | 0.26 | 0.25 | 0.41 | 0.34 | 0.15 | 0.19 | 0.33 | 0.24 | 0.29 |
| 14 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 15 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 16 | 0.09 | ---- | 0.07 | 0.10 | ---- | 0.06 | 0.07 | 0.10 | 0.09 | 0.04 | 0.01 | 0.05 | 0.07 | 0.03 | 0.02 | ---- | 0.02 | 0.03 | ---- | 0.06 |
| 17 | 0.03 | 0.01 | 0.03 | 0.03 | ---- | 0.05 | 0.04 | 0.02 | 0.02 | 0.03 | 0.07 | 0.05 | 0.03 | 0.05 | 0.06 | 0.05 | 0.05 | 0.05 | 0.02 | 0.03 |
| 18 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 19 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 20 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 21 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 22 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 23 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 24 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 25 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 26 | 0.25 | 0.15 | 0.40 | 0.41 | 0.06 | 0.60 | 0.76 | 0.58 | 0.47 | 0.60 | 0.35 | 0.23 | 0.29 | 0.34 | 0.41 | 0.35 | 0.31 | 0.44 | 0.36 | 0.63 |
| 27 | 0.01 | ---- | 0.06 | 0.01 | 0.05 | 0.07 | 0.04 | ---- | ---- | ---- | 0.06 | 0.06 | 0.01 | 0.13 | 0.07 | 0.01 | 0.01 | 0.02 | ---- | 0.33 |
| 28 | 1.37 | 1.53 | 1.57 | 1.13 | 1.25 | 1.45 | 1.42 | 0.54 | 0.66 | 0.98 | 0.61 | 0.24 | 0.52 | 0.12 | 0.05 | 0.02 | 0.05 | 0.21 | 0.74 | 0.01 |
| 29 | 0.02 | ---- | 0.02 | 0.01 | 0.02 | 0.04 | 0.04 | ---- | 0.01 | 0.02 | 0.01 | 0.01 | ---- | ---- | 0.02 | 0.01 | 0.01 | 0.07 | 0.06 | 0.03 |
| 30 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 31 | 0.11 | 0.01 | 0.01 | 0.02 | 0.01 | ---- | 0.13 | 0.04 | 0.06 | ---- | ---- | 0.01 | 0.03 | ---- | ---- | 0.02 | 0.17 | 0.06 | ---- | ---- |
| Monthly | 3.66 | 3.14 | 3.92 | 3.80 | 2.78 | 4.00 | 4.42 | 2.91 | 3.55 | 3.49 | 2.91 | 2.42 | 3.10 | 3.24 | 2.97 | 2.68 | 2.44 | 2.99 | 2.91 | 3.03 |

Network Average = 3.22 Imperial Valley Network