

Decorah Weather - August 2009 Summary

by Richard Bernatz

Weather data available online at <http://faculty.luther.edu/~bernatzr/DecWx/>

1. TEMPERATURE

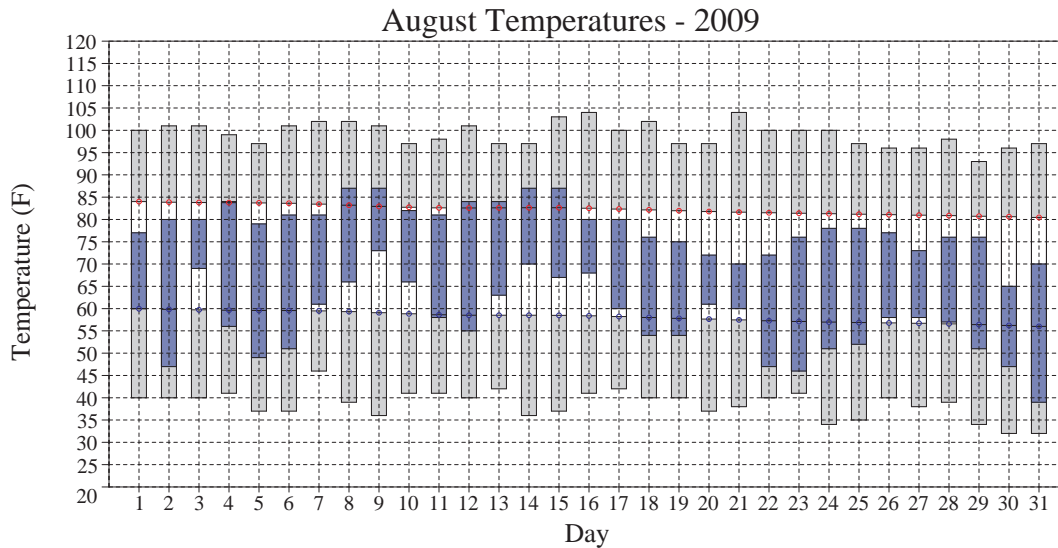


Figure 1: Observed temperatures - solid bar, record temperatures - blank bar, average temperatures - circles.

| Item | August 2009 Average | Historical Average | Deviation |
|-------------------------|---------------------|--------------------|-----------|
| High temperature (°F): | 78.6 | 82.3 | -3.7 |
| Low temperature (°F): | 57.2 | 58.2 | -0.9 |
| Daily temperature (°F): | 67.9 | 70.2 | -2.3 |

Table 1: August 2009 Temperatures compared with August History.

- **AUGUST 2009**
 - No record temperatures set in August 2009
 - Average temperature : 67.9° F (2.3 ° F cooler than average)
 - Warmest temperature : 87° F on the 8th, 9th, 14th, and 15th
 - Coldest temperature : 39° F on the 31st
 - Twenty-four days with below average high temperature
 - Cooling degree days: 123.5, 62.3 less than average
- **ALL AUGUSTS: 1893 TO PRESENT** (data missing for 1908)
 - Compared with August 2009, 95 Augusts were warmer, 20 Augusts were cooler
 - Warmest average : 77.5° F in 1900
 - Coldest average : 63.9° F in 1915
 - Warmest temperature : 104° F on the 16th of 1937
 - Coldest temperature : 32° F on the 30th and 31st of 1915

2. **PRECIPITATION**

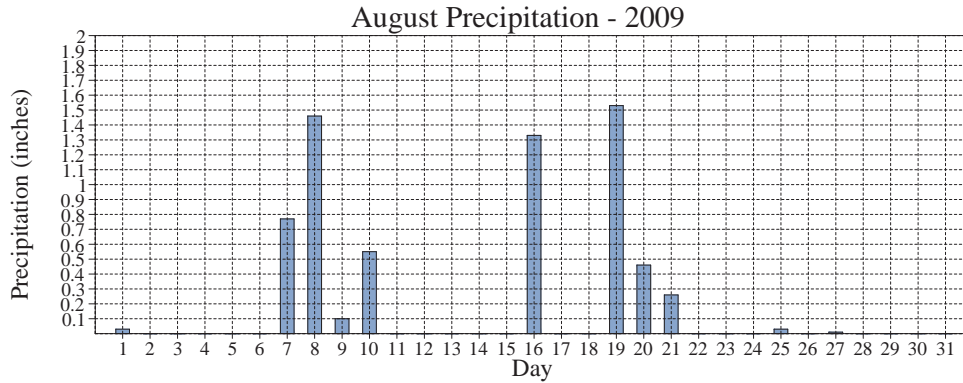


Figure 2: Precipitation for Decorah.

- AUGUST 2009
 - Total precipitation for August 2009 : 6.53 inches
 - 2.54 inches more than the average of 3.99 inches
 - 11 days with measurable precipitation
 - Maximum 24-hour total of 1.53 inches on the 19th, second most of 1.46 on the 8th
- ALL AUGUSTS: 1893 TO PRESENT (no missing data)
 - Compared with August 2009, 16 Augusts were wetter and 100 Augusts were drier
 - Wettest August: 15.11 inches in 2007 (the wettest of any month on record)
 - Driest August: 0.00 inches in 1948

3. **TWELVE-MONTH SUMMARY**

| Month | Year | Ave Temp (°F) | Deviation (°F) | Precip (inches) | Deviation (inches) |
|-----------|------|---------------|----------------|-----------------|--------------------|
| September | 2008 | 63.3 | +1.3 | 1.81 | -1.84 |
| October | 2008 | 50.2 | -0.1 | 1.91 | -0.32 |
| November | 2008 | 36.7 | +1.8 | 1.98 | +0.16 |
| December | 2008 | 15.0 | -6.4 | 1.63 | +0.50 |
| January | 2009 | 8.8 | -7.3 | 0.59 | -0.45 |
| February | 2009 | 23.6 | +3.4 | 0.95 | +0.01 |
| March | 2009 | 36.4 | +4.1 | 1.45 | -0.44 |
| April | 2009 | 47.2 | 0.0 | 4.37 | +1.33 |
| May | 2009 | 58.3 | +0.3 | 4.70 | +0.55 |
| June | 2009 | 67.3 | -0.6 | 2.95 | -1.60 |
| July | 2009 | 66.4 | -6.0 | 3.87 | -0.19 |
| August | 2009 | 67.9 | -2.3 | 6.53 | +2.54 |

Table 2: A summary of the most recent twelve months.

- Seven of the last twelve months have been cooler than average.
- Six of the last twelve months have been wetter than average and six have been drier than average, giving a slight surplus of 0.25 inches for the interval.