

Decorah Weather - August 2025 Summary

by Richard Bernatz

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

1. TEMPERATURE

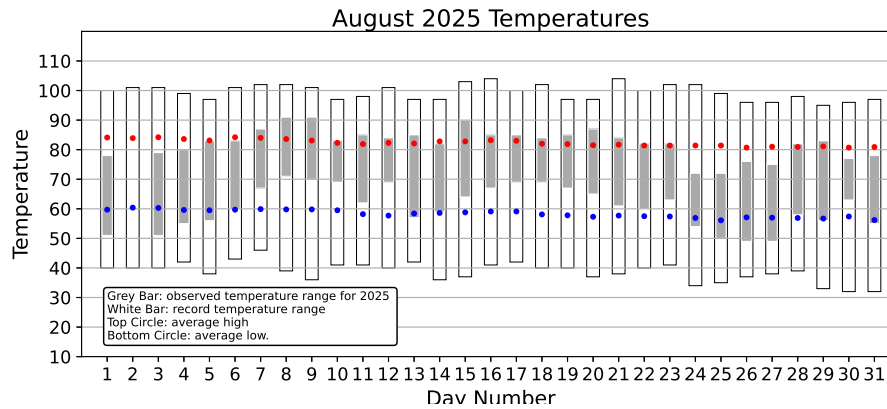


Figure 1: **Grey Bar:** Observed temperature range for 2025, **White Bar:** Record temperature range, **Average temperature range:** Red circle for average high, blue circle for average low.

Item	August 2025 Average	Historical Average	Deviation
High temperature (°F):	82.3	82.4	-0.1
Low temperature (°F):	60.5	58.5	+2.0
Daily temperature (°F):	71.4	70.4	+1.0

Table 1: August 2025 Temperatures compared with August History.

- AUGUST 2025
 - Record temperatures : None.
 - Average temperature : 71.4°F (1.0°F warmer than average)
 - Warmest temperature : 91°F on the 8th and 9th
 - Coldest temperature : 49°F on the 26th and 27th
 - Cooling degree days : 205, 14.5 more than average of 190.5
- ALL AUGUSTS: 1893 TO PRESENT (133 years)
 - Compared with August 2025, 40 Augusts were warmer and 92 Augusts were cooler
 - Warmest average : 77.5°F in 1900
 - Coldest average : 63.9°F in 1915
 - Warmest temperature : 105°F on the 23rd and 24th of 2025
 - Coldest temperature : 32°F on the 30th and 31st of 1915

2. PRECIPITATION

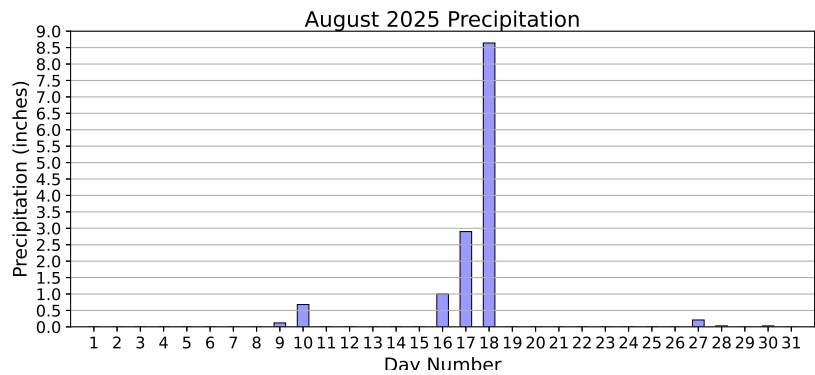


Figure 2: Precipitation for Decorah.

- AUGUST 2025
 - Total precipitation for August 2025 : 13.61 inches
 - 9.50 inches more than the average of 4.11 inches
 - Eight days with measurable precipitation, the average is nine days
 - The measured rainfall of 8.64 inches on the 18th is the greatest 24-hour rainfall on record for Decorah. The second greatest 24-hour total is 8.06 inches on August 24th of 2016, and the third greatest total is 6.60 inches on June 8th of 2008.
- ALL AUGUSTS: 1893 TO PRESENT (133 years - no missing data)
 - Compared with August 2025, 1 Augusts were wetter and 131 Augusts were drier
 - Wettest August: 15.11 inches in 2007 (the wettest of any month on record)
 - Driest August: 0.33 inches in 1969

3. TWELVE-MONTH SUMMARY

Month	Year	Ave Temp (°F)	Deviation (°F)	Rank† (#/Total)	Precip (inches)	Deviation (inches)	Rank‡ (#/Total)
September	2024	67.5	+5.2	9/131	0.39	-3.29	130/131
October	2024	57.3	+6.9	4/131	1.61	-0.71	89/131
November	2024	40.4	+4.1	15/132	3.70	+1.85	12/132
December	2024	26.7	+5.6	24/132	1.62	+0.41	36/132
January	2025	19.3	+2.9	44/132	0.06	-0.96	132/132
February	2025	19.7	-0.5	67/132	0.30	-0.65	114/131
March	2025	43.0	+10.0	3/133	3.08	+1.16	14/133
April	2025	49.3	+2.0	26/132	5.90	+2.76	12/132
May	2025	59.7	+0.7	55/130	2.46	-1.79	107/130
June	2025	72.9	+4.6	8/131	6.26	+1.47	34/131
July	2025	75.2	+2.6	26/131	5.21	+1.13	35/132
August	2025	71.4	+1.0	41/133	13.61	+9.50	2/133

Table 2: A summary of the last twelve months. †- The smaller the number (#), the warmer the month. ‡- The smaller the number (#), the wetter the month. Boxed entries are within the historical top or bottom ten.

- Eleven of the last twelve months were warmer than average.
- Seven of the last twelve months were wetter than average, but September of 2024 was the second driest September and January of 2025 was the driest January.
- Precipitation deviations from average (in inches). last three months: +12.10, last six months: +14.24, last nine months: +13.05, last twelve months: +10.89

4. AUGUST NARRATIVE SUMMARY

August 2025 in Decorah was defined by a significant and record-setting amount of rainfall, while temperatures remained consistently above average, if only slightly.

Temperatures for the month were mild, with an average of 71.4°F, which is 1.0°F warmer than the historical average. This makes August 2025 the 41st warmest August on record. The warmest temperatures of the month reached 91°F on the 8th and 9th. The lowest temperatures were recorded on the 26th and 27th, dipping to 49°F. The consistent warmth meant more cooling degree days, with the total exceeding the average.

The most dramatic aspect of August 2025 was the precipitation. With a staggering 13.61 inches of rain, the month was exceptionally wet, receiving 9.50 inches more than the historical average. This ranks August 2025 as the second wettest August on record in Decorah, with only August 2007 being wetter.

The most notable event was the measured rainfall of 8.64 inches on the 18th, which set a new record for the greatest 24-hour rainfall in Decorah's history, surpassing the previous record of 8.06 inches on August 24th of 2016. June 8th of 2008 holds 3rd place with 6.60 inches. Despite the immense total rainfall, there were only eight days with measurable precipitation, which is just below the average of nine, indicating that the month's precipitation came in a few very heavy downpours rather than frequent, light showers.

Looking at the broader twelve-month trend, August's weather reinforces a pattern of above-average temperatures and a shift toward significantly wetter conditions. Eleven of the last twelve months have been warmer than average, with September and October of 2024 and March and June of 2025 all ranking among the top ten warmest on record for their respective months.

In terms of the last twelve months and precipitation, August's immense rainfall has erased recent deficits (September of 2024 was the second driest September on record and January of 2025 was the driest January on record) and created a substantial surplus. The last three months have seen a precipitation surplus of 12.10 inches, and the past twelve months are now 10.89 inches above average. This month's record-breaking rainfall event combined with is a stark reminder of the extreme weather that has characterized the past year in Decorah.