

Decorah Weather - September 2024 Summary

by Richard Bernatz

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

1. TEMPERATURES

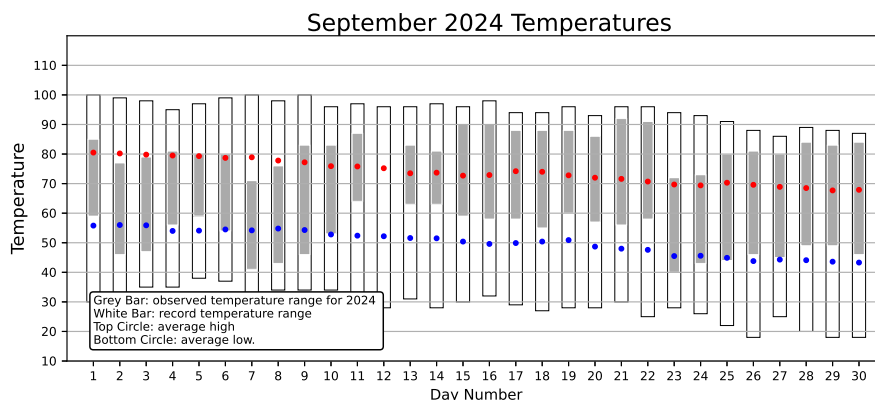


Figure 1: **Grey Bar:** Observed temperature range for 2024, **White Bar:** Record temperature range, **Average temperature range:** Red circle for average high, blue circle for average low.

| Item | September 2024 Average | Historical Average | Deviation |
|-------------------------|------------------------|--------------------|-----------|
| High temperature (°F): | 82.6 | 74.2 | 8.4 |
| Low temperature (°F): | 52.3 | 50.4 | 1.9 |
| Daily temperature (°F): | 67.5 | 62.3 | 5.2 |

Table 1: September 2024 Temperatures compared with September History.

- SEPTEMBER 2024
 - Record Temperatures: none
 - Average temperature : 67.5° F (5.2° F warmer than average)
 - Above average maximum temperature recorded on 25 days.
 - Above average minimum temperature recorded on 20 days.
 - Warmest temperature : 92° F on the 21st,
 - Coldest temperature : 40° F on the 23rd
 - Cooling degree days : 115.5, 42.4 greater than average
 - Heating degree days : 43.5, 110.2 less than average
- ALL SEPTEMBERS SINCE 1894 (131 years - no missing years)
 - Compared with September 2024, 8 Septembers were warmer, and 122 Septembers were cooler
 - Warmest average : 69.3° F in 1931 and 2024
 - Coldest average : 55.0° F in 1924
 - Warmest temperature : 100° F on the 1st of 1913, 7th of 1939, and the 9th of 1955
 - Coldest temperature : 18° F on the 26th of 1926, the 29th of 1949, and the 30th of 1899

2. PRECIPITATION

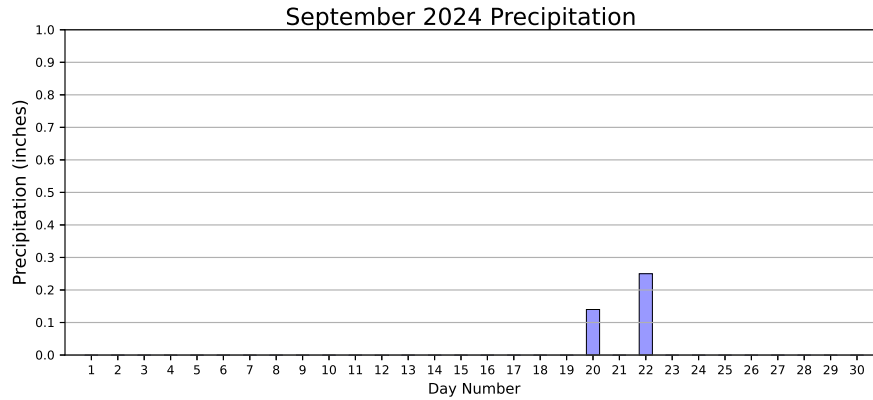


Figure 2: Precipitation for Decorah.

- SEPTEMBER 2024
 - Total precipitation for September 2024 : 0.39 inches, 3.29 inches less than average
 - Greatest 24-hour total: 0.25 inches on September 22nd
 - Two days with measurable precipitation (average is 9 days).
- ALL SEPTEMBERS SINCE 1894 (131 years - no missing years)
 - Compared with September 2024, 129 Septembers were wetter and 1 September (1979) was drier
 - Wettest September : 11.66 inches in 2016
 - Driest September: 0.30 inches in 1979

3. TWELVE-MONTH SUMMARY

| Month | Year | Ave Temp (°F) | Deviation (°F) | Rank† (#/Total) | Precip (inches) | Deviation (inches) | Rank‡ (#/Total) |
|-----------|------|------------------|-------------------|--------------------|--------------------|-----------------------|--------------------|
| October | 2023 | 54.3 | +4.0 | 19/130 | 2.78 | +0.45 | 46/130 |
| November | 2023 | 40.0 | +4.7 | 19/131 | 0.18 | -1.65 | 128/131 |
| December | 2023 | 36.0 | +14.1 | 1/131 | 1.07 | -0.14 | 71/131 |
| January | 2024 | 24.0 | +7.6 | 14/131 | 1.56 | +0.51 | 24/131 |
| February | 2024 | 38.1 | +17.9 | 1/131 | 0.37 | -0.59 | 107/130 |
| March | 2024 | 42.4 | +9.5 | 3/132 | 2.18 | +0.28 | 49/132 |
| April | 2024 | 50.5 | +3.1 | 26/131 | 3.97 | +0.85 | 31/131 |
| May | 2024 | 62.7 | +3.8 | 20/129 | 9.11 | +4.85 | 6/129 |
| June | 2024 | 71.9 | +3.6 | 18/130 | 7.38 | +2.60 | 22/130 |
| July | 2024 | 73.8 | +1.2 | 45/130 | 3.13 | -0.94 | 79/131 |
| August | 2024 | 73.8 | +3.4 | 108/132 | 1.87 | -2.16 | 108/132 |
| September | 2024 | 67.5 | +5.2 | 9/131 | 0.39 | -3.29 | 130/131 |

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.

- September 2024 is the 14th consecutive month with an above average temperature average.
- September 2024 is the third consecutive month with a below average precipitation total. It is one of five of the last 12 with a below average precipitation total.
- Four of the last twelve months rank among the top ten warmest for their respective month. December and February are the warmest for their respective months.
- Precipitation deviations (in inches) from average. last three months: -6.41, last six months: +1.91, last nine months: +2.11, last twelve months: +0.78