

Figure 1. September 2021 county precipitation ranking map of North Dakota. (National Centers for Environmental Information, NOAA)

## North Dakota Monthly Climate Summary

## September 2021

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Figure 2. Historical September precipitation time series for North Dakota. (NCEI, NOAA)

Table 1. North Dakota September Precipitation Ranking Table.

| Period | Value | Normal | Anomaly | Rank | Wettest/Driest | Record <br> September |
| ---: | :--- | :--- | :--- | :--- | :--- | :--- |
| 1.2" | $1.87^{\prime \prime}$ | $0.67^{\prime \prime}$ | 52nd driest | Since | Driest since 2020 | Year |
| 2021 |  |  |  | 76th wettest (2012) | Wettest since 2019 | 5.9" (2019) |

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## Temperature

The official state average September temperature was 62.2 F , which is 6.7 degrees cooler than last month but 5.1 degrees warmer than in September 2020. Furthermore, the average September temperature was 4.3 degrees warmer than the 1991-2020 average, making it the fourth warmest September in the 127 years of record (Table 2).

The counties shaded in


Figure 3. September 2021 county temperature ranking map of North Dakota. (NCEI, NOAA) peach in Figure 3 indicate warmer-than-average conditions. The numbers inside the counties are the temperature rankings, with one being the lowest (coldest) and 127 being the highest (warmest).

The state's highest and lowest daily temperatures ranged from 100 F on Sept. 29 in Dickinson, Stark County, to 27 F on Sept. 24 in Lostwooed, Burke County. Based on the historical records, the state average September temperature showed a positive long-term trend of 1.9 degrees during the last century. The lowest and highest monthly state September average temperatures during this period ranged from 45.1 F in 1965 to 63.3 F in 1897 (Figure 4 and Table 2).

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Figure 4. Historical September temperature time series for North Dakota. (NCEI, NOAA)

Table 2. North Dakota September Temperature Ranking Table.

| Period | Value | Normal | Anomaly | Rank | Warmest/Coolest | Record <br> Sear |
| ---: | :--- | :--- | :--- | :--- | :--- | :--- |
| September | $62.2^{\circ}$ | $57.9^{\circ}$ | $4.3^{\circ}$ | 122nd coolest | Since | Coolest since 2020 | 45.1 F (1965)

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Storm Reports: Table 3 below shows the summary of September severe storm reports in North Dakota (Storm Prediction Center, NOAA).

The NOAA Storm Report recorded zero tornados, five hail and one damaging wind report, with six significant storm events in September. Table 3 summarizes the number of tornado, hail and damaging wind reports in September, while Figure 5 geographically displays the locations of these storms.

Table 3. Summary of September Severe Storm Reports in North Dakota. (Storm Prediction Center, NOAA)

| Category | Number of Reports |
| ---: | :--- |
| Tornado reports | 0 |
| reports reports | 5 |
| Total | $\mathbf{1}$ |
|  | $\mathbf{6}$ |



Figure 5. Map of September 2021 North Dakota storm events (red: tornado; blue: wind; green: hail). (Storm Prediction Center, NOAA)

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Daily Record Events in September: Across the observation network of weather stations with at least 30 years of history, 81 daily high- and only one daily low-temperature records were set or tied. In addition, a total of six highest daily precipitation-related records were set or tied. Details of the records are in Table 4.

Table 4. Summary of daily records broken or set in North Dakota in September. (NCEI Daily Weather Records)

| Category | Number of <br> Records |
| ---: | :--- |
| Highest daily max. temp. | 49 |
| Highest daily min. temp. | 33 |
| Lowest daily max. temp. | 1 |
| Lowest daily min. temp. | 0 |
| Highest daily precipitation | 6 |
| Highest daily snowfall | 0 |
| Total | $\mathbf{8 9}$ |

Number of
Records
49
33
1
0
6
0
89

The Highlight of the Month*

A highest daily maximum temperature record of $\mathbf{1 0 0}$ degrees was broken in Dickinson on Sept. 29, exceeding the previous record that was set in 1980 by 12 degrees (years on record: 72).
*The records in this box may differ from those on Pages 1 and 3 because this page only includes records for stations with at least 30 years of history.

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