

## NORTH DAKOTA STATE CLIMATE OFFICE <br> ndsco <br> North Dakota Monthly Climate Summary

## September 2020

Volume 14, No. 9


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 <br> Since | Record <br> Year |
| ---: | :--- | :--- | :--- | :--- | :--- | :--- |
| September | $0.5^{\prime \prime}$ | $1.71^{\prime \prime}$ | $-1.21 "$ | 9th driest | Driest since 2012 | $0.2^{\prime \prime}(2012)$ |
| 2020 |  |  |  | 117th wettest | Wettest since 2019 | $5.9^{\prime \prime}(2019)$ |

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## Temperature

The official state average September temperature was 57 F , which is 12.1 degrees cooler than last month, and 1.3 degrees cooler than in September 2019. The average September temperature also was only 0.1 degree warmer than the 19812010 average, which made it the 52rd warmest (or 71st coolest) September in the 126 years of record (Table 2). The negative numbers in Figure 3 are shaded in green and


Figure 3. September 2020 temperature departure from average for North Dakota. (North Dakota Agricultural Weather Network) blue to depict the area with cooler-than-average temperatures in September. In contrast, the positive numbers in the same figure are shaded in red and orange to illustrate the area with warmer-thanaverage temperatures in September. The state's lowest and highest daily temperatures ranged from 20 F on Sept. 8 in Fortuna, Divide County, to 93 F on Sept. 2 in Bismarck, Burleigh County. Based on the historical records, the state average September temperature showed a slight positive long-term trend of 0.2 degree per decade since 1895. The lowest and highest monthly state September average temperatures ranged from 45.4 F in 1965 to 63.5 F in 1897 (Figure 4).

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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> September |
| ---: | :--- | :--- | :--- | :--- | :--- | :--- |
| $57.0^{\circ}$ | $56.9^{\circ}$ | $0.1^{\circ}$ | 71st coolest | Since | Coolest since 2018 | Year |
| 2020 |  |  |  | 53rd warmest (1965) | Warmest since 2019 | 63.5 F (1897) |

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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 no tornadoes and no hail but 13 damaging wind reports, with a total of 13 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 | 0 |
| Wind reports | 13 |
| Total | $\mathbf{1 3}$ |



Figure 5. Map of September 2020 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, nine daily high- and 61 daily low-temperature records were set or tied. A total of 70 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)



The Highlight of the Month*

A lowest daily minimum temperature record of 26 degrees was broken in Crosby on Sept. 8, exceeding the previous record that was set in 1976 by 4 degrees. (years on record: 113).
*The records in this box may be different from the record on Pages 1 and 3 because this page only includes records for stations with at least 30 years of history.

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