



# North Dakota Monthly Climate Summary

November 2022

Volume 16, No. 11

## Precipitation

North Dakota State Climate Office: Your Resource for Climate Information.



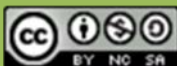
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Based on the National Centers for Environmental Information (NCEI), the statewide average November precipitation was 0.65 inches, which was 0.02 inches less than last month but 0.2 inches more than November 2021. It was 0.01 inches more than the 1991-2020 average, making it the 44th wettest November in the 128-year period of record (Table 1).

The counties shaded in green in Figure 1 indicate wetter-than-average conditions in November 2022. In contrast, the counties shaded in brown indicate drier-than-average conditions. White shading indicates near-average conditions. The numbers inside the counties are the precipitation rankings with one being the lowest (driest) and 128 being the highest ranking (the wettest).

The greatest monthly precipitation accumulation was 2.18 inches, recorded in Hazen, Mercer County. The greatest monthly snowfall accumulation was 25.5 inches, recorded in Elgin, Grant County. Based on historical records, statewide November precipitation showed a slight negative long-term trend of 0.04 inches during the last century. The lowest and highest November precipitation for the state during this period ranged from 0.03 inches in 1939 to 2.33 inches in 2000 (Figure 2 and Table 1).

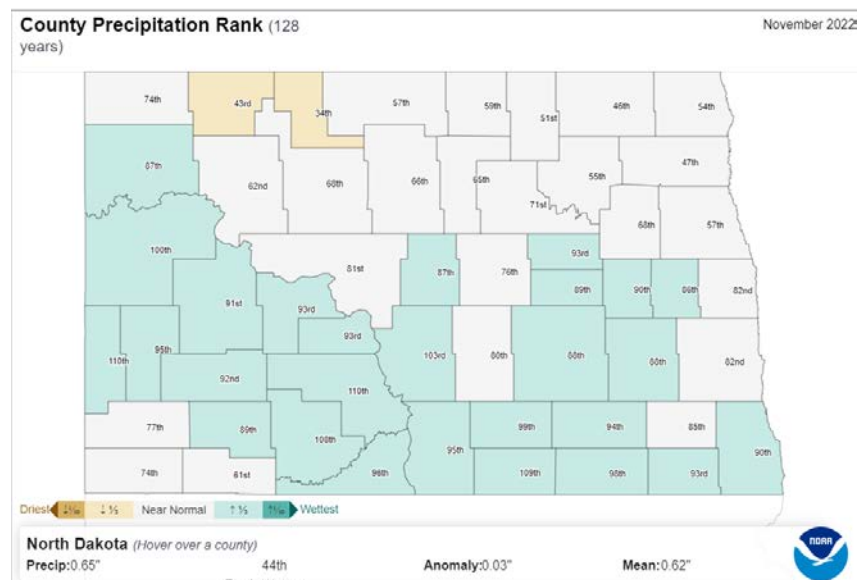


Figure 1. November 2022 county precipitation ranking map of North Dakota. (NCEI, NOAA)



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## North Dakota Precipitation

November

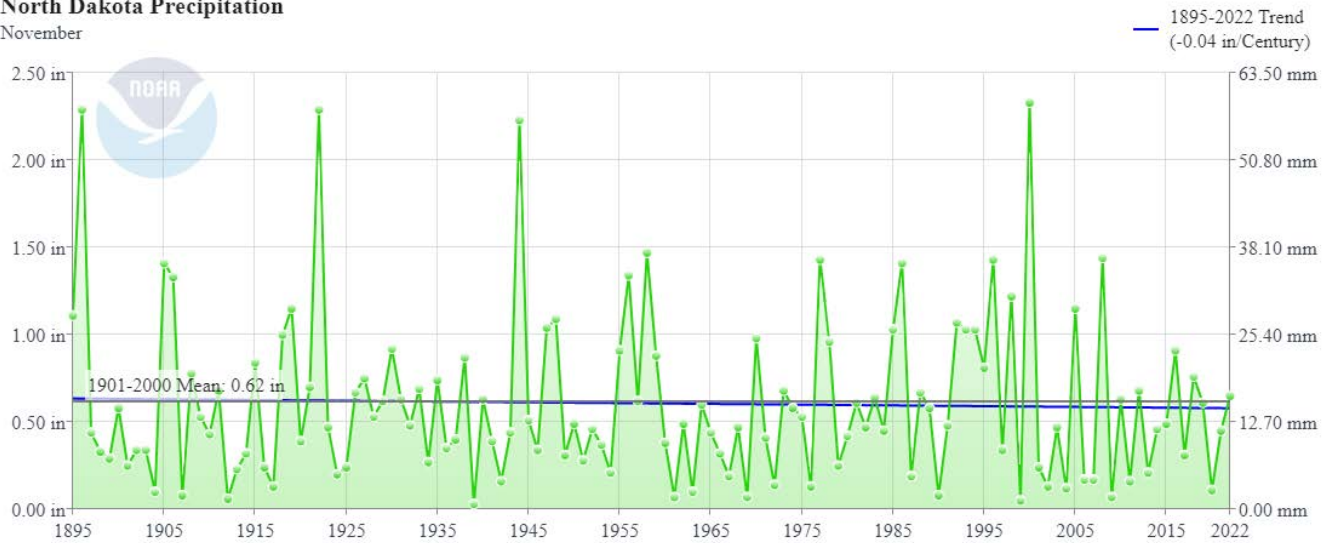


Figure 2. Historical November precipitation time series for North Dakota. (NCEI, NOAA)

Table 1. North Dakota November Precipitation Ranking Table.

Period	Value	Normal	Anomaly	Rank	Wettest/Driest Since	Record Year
November 2022	0.65"	0.64"	0.01"	85th driest 44th wettest	Driest since 2021 Wettest since 2018	0.03" (1939) 2.33" (2000)



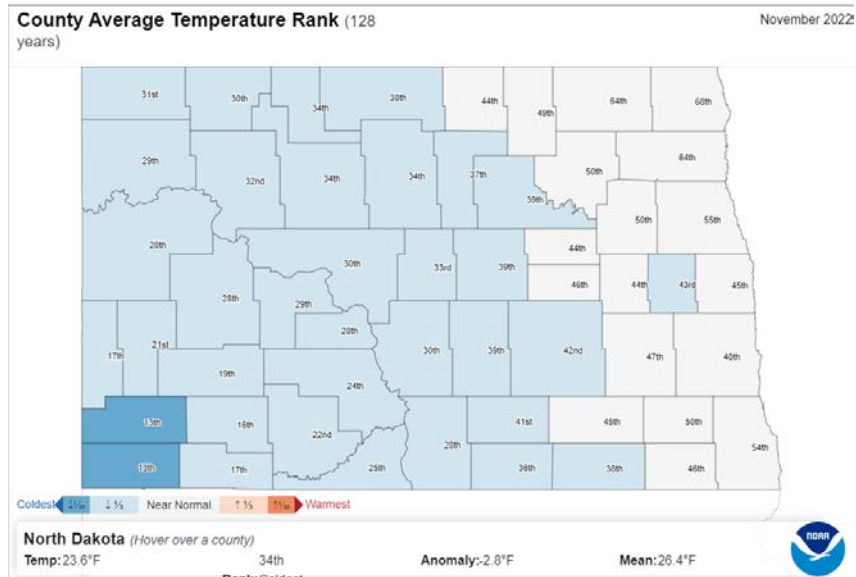
# North Dakota Monthly Climate Summary

November 2022

Volume 16, No. 11

## Temperature

The official state average November temperature was 23.6 F, which is 19.7 degrees cooler than last month, and 8.9 degrees colder than in November 2021. Furthermore, the average November temperature was 4.3 degrees colder than the 1991-2020 average, making it the 34th coldest November in the 128 years of record (Table 2).



**Figure 3. November 2022 county temperature ranking map of North Dakota. (NCEI, NOAA)**

The counties shaded in blue in Figure 3 indicate colder-than-average conditions, and white shading indicates near-average conditions. The numbers inside the counties are the temperature rankings, with one being the lowest (coldest) and 128 being the highest (warmest).

The state’s highest and lowest daily temperatures ranged from 77 F on Nov. 2 in Bismarck, Burleigh County, to -21 F on Nov. 12 in Hebron, Morton County. Based on the historical records, the state average November temperature showed a positive long-term trend of 2.6 degrees during the last century. The lowest and highest monthly state November average temperatures during this period ranged from 6.1 F in 1896 to 39.3 F in 2016 (Figure 4 and Table 2).



# North Dakota Monthly Climate Summary

November 2022

Volume 16, No. 11

North Dakota Average Temperature

November

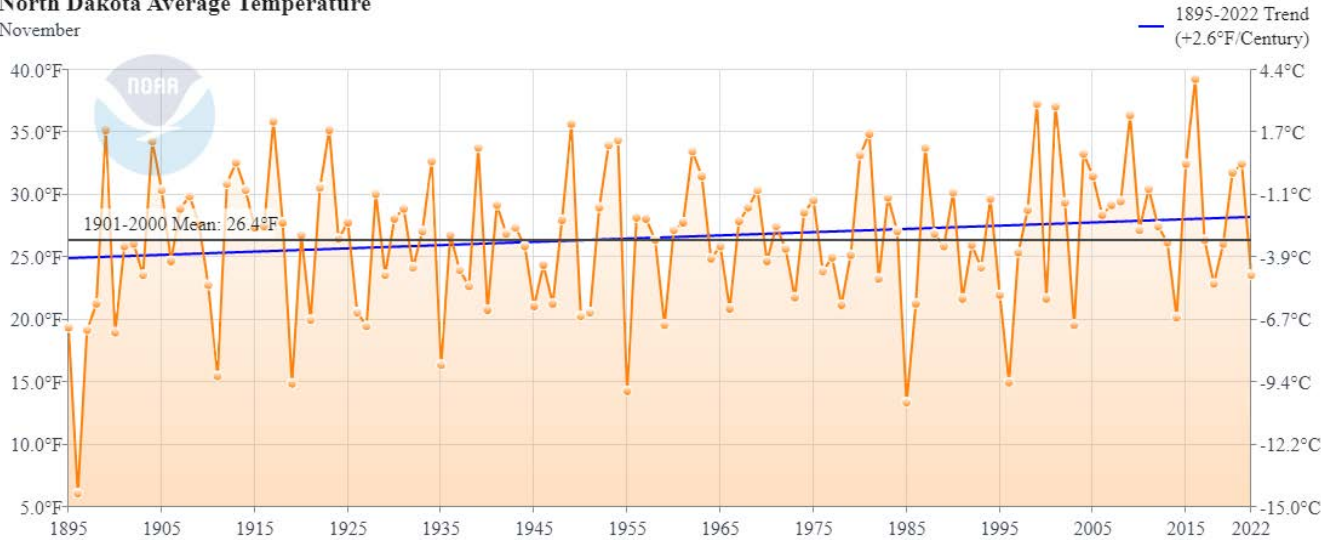


Figure 4. Historical November temperature time series for North Dakota. (NCEI, NOAA)

Table 2. North Dakota November Temperature Ranking Table.

Period	Value	Normal	Anomaly	Rank	Warmest/Coollest Since	Record Year
November 2022	23.6°	27.9°	-4.3°	34th coolest 95th warmest	Coollest since 2018 Warmest since 2021	6.1 F (1896) 39.3 F (2016)



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**November 2022**

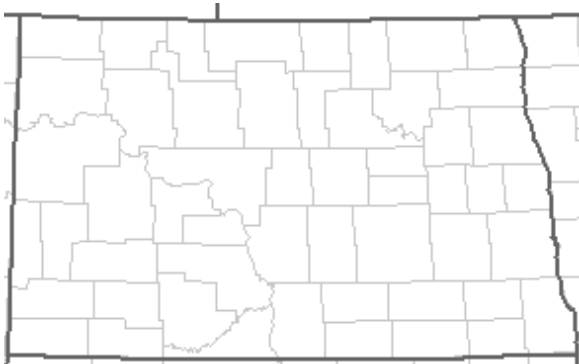
**Volume 16, No. 11**

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

The NOAA Storm Report recorded no tornado, hail or damaging wind reports, with zero significant storm events in November. Table 3 summarizes the number of tornado, hail and damaging wind reports in November, while Figure 5 geographically displays the locations of these storms.

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

<b>Category</b>	<b>Number of Reports</b>
<i>Tornado reports</i>	0
<i>Hail reports</i>	0
<i>Wind reports</i>	0
<b>Total</b>	<b>0</b>



*Figure 5. Map of November 2022 North Dakota storm events (red: tornado, blue: wind, green: hail). (Storm Prediction Center, NOAA)*



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November 2022

Volume 16, No. 11

**Daily Record Events in November:** Across the observation network of weather stations with at least 30 years of history, 30 daily high- and 17 daily low-temperature records were set or tied. In addition, a total of 33 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 November. (NCEI Daily Weather Records)*

<i>Category</i>	<b>Number of Records</b>
<i>Highest daily max. temp.</i>	19
<i>Highest daily min. temp.</i>	11
<i>Lowest daily max. temp.</i>	10
<i>Lowest daily min. temp.</i>	7
<i>Highest daily precipitation</i>	17
<i>Highest daily snowfall</i>	16
<b>Total</b>	<b>80</b>

## The Highlight of the Month\*

A highest daily snowfall record of **17 inches** was broken in **Bismarck on Nov. 10**, exceeding the previous record that was set in 2012 by **7.91** inches (years on record: 74).

*\*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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