



# North Dakota Monthly Climate Summary

April 2022

Volume 16, No. 4

## Precipitation

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



North Dakota State University

College of Agriculture, Food Systems, and Natural Resources

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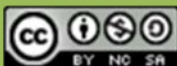
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Based on the National Centers for Environmental Information (NCEI), the statewide average April precipitation was 3.67 inches, which was 3.46 inches more than last month and 3.03 inches more than April 2021. It was also 2.42 inches more than the 1991-2020 average, making it the 2nd wettest April in the 128-year period of record (Table 1).

The counties shaded in green indicate wetter-than-average conditions in April 2022. The numbers inside the counties are the precipitation rankings with one being the lowest (driest) and 128 being the highest (the wettest) ranking.

The greatest monthly precipitation accumulation was 10.20 inches, recorded in Walhalla, Pembina County. The greatest monthly snowfall accumulation was 58 inches, recorded in Kenmare, Ward County. Based on historical records, statewide April precipitation showed a slight negative long-term trend of 0.04 inches during the last century. The lowest and highest April precipitation for the state during this period ranged from 0.11 inches in 1987 to 3.71 inches in 1986 (Figure 2 and Table 1).

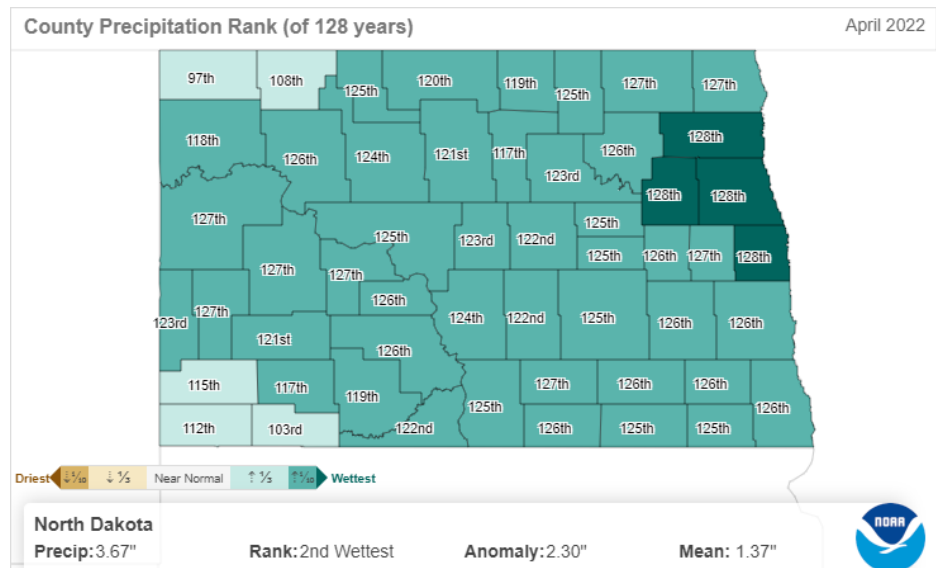


Figure 1. April 2022 county precipitation ranking map of North Dakota. (NCEI, National Oceanic and Atmospheric Administration [NOAA])



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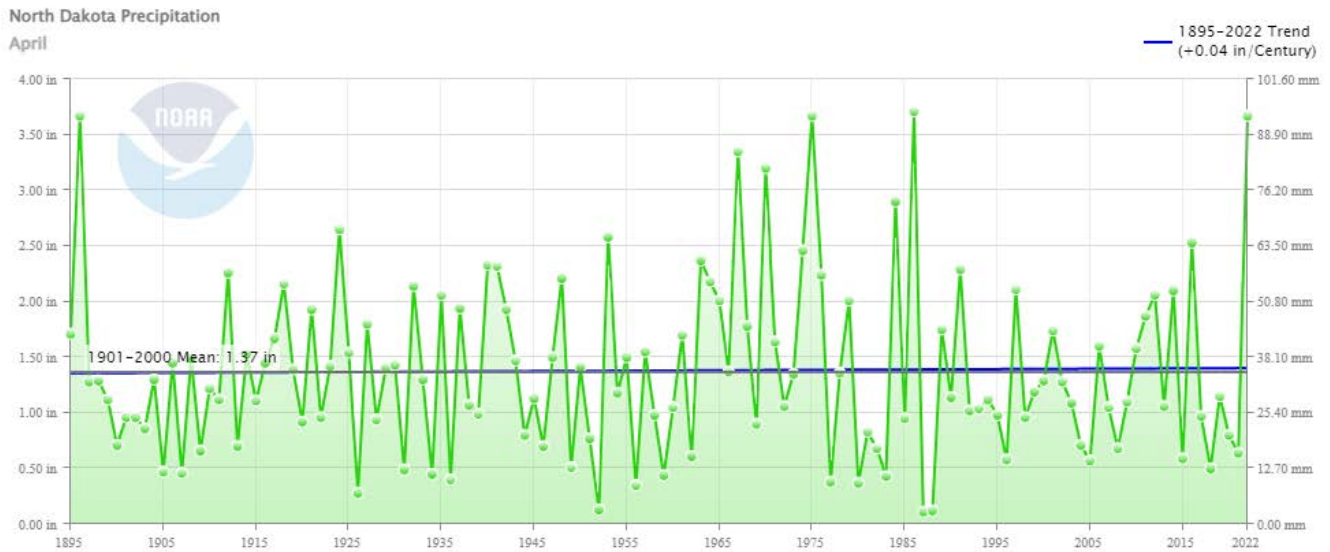


Figure 2. Historical April precipitation time series for North Dakota. (NCEI, NOAA)

Table 1. North Dakota April Precipitation Ranking Table.

Period	Value	Normal	Anomaly	Rank	Wettest/Driest Since	Record Year
April 2022	3.67"	1.25"	2.42"	127th driest 2nd wettest	Driest since 2021 Wettest since 1986	0.11" (1987) 3.71" (1986)



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## Temperature

The official state average April temperature was 33.6 F, which is 6.1 degrees warmer than last month, but 7.1 degrees cooler than in April 2021. Furthermore, the average April temperature was 7.6 degrees cooler than the 1991-2020 average, making it the 8th coldest April in the 128 years of record (Table 2).

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

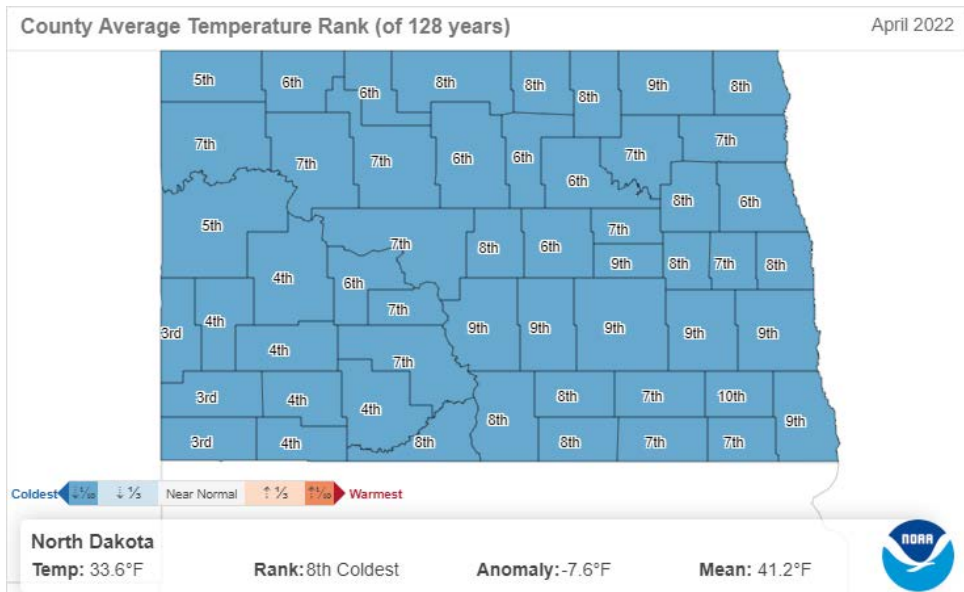


Figure 3. April 2022 county temperature ranking map of North Dakota. (NCEI, NOAA)

The state’s highest and lowest daily temperatures ranged from 81 F on Apr. 7 in Bismarck, Burleigh County, to -10 F on Apr. 18 in Northgate, Burke County. Based on the historical records, the state average April temperature showed a slight positive long-term trend of 0.4 degrees during the last century. The lowest and highest monthly state April average temperatures during this period ranged from 31.3 F in 2013 to 50.2 F in 1987 (Figure 4 and Table 2).



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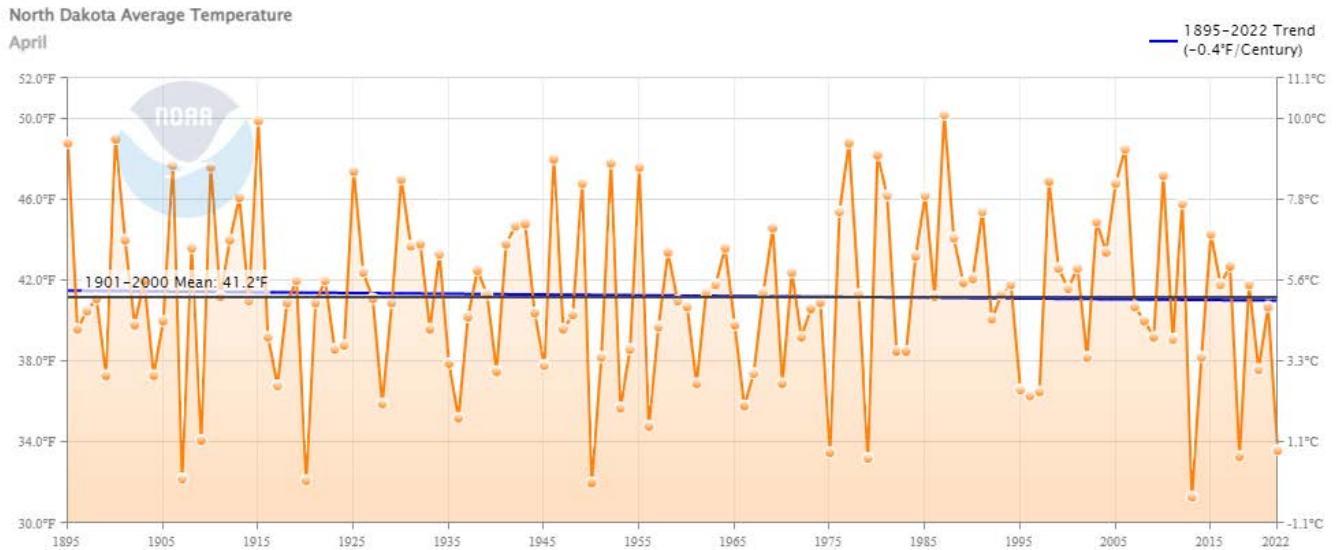


Figure 4. Historical April temperature time series for North Dakota. (NCEI, NOAA)

Table 2. North Dakota April Temperature Ranking Table.

Period	Value	Normal	Anomaly	Rank	Warmest/Coollest Since	Record Year
April 2022	33.6 F	41.2 F	-7.6 F	8th coolest 121st warmest	Coollest since 2018 Warmest since 2021	31.3 F (2013) 50.2 F (1987)



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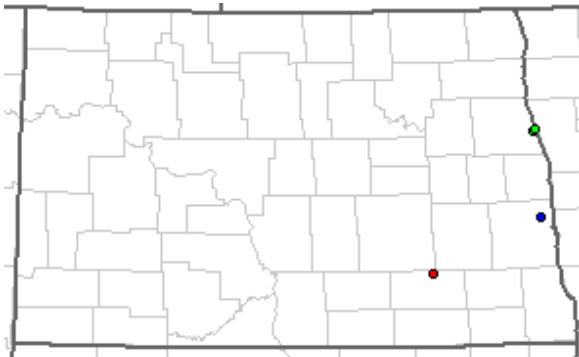
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**Storm Reports:** Table 3 below shows the summary of April severe storm reports in North Dakota (Storm Prediction Center, NOAA).

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

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

<b>Category</b>	<b>Number of Reports</b>
<i>Tornado reports</i>	1
<i>Hail reports</i>	2
<i>Wind reports</i>	2
<b>Total</b>	<b>5</b>



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



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**Daily Record Events in April:** Across the observation network of weather stations with at least 30 years of history, zero daily high and 170 daily low-temperature records were set or tied. In addition, a total of 89 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 April. (NCEI Daily Weather Records)

Category	Number of Records
Highest daily max. temp.	0
Highest daily min. temp.	0
Lowest daily max. temp.	103
Lowest daily min. temp.	67
Highest daily precipitation	41
Highest daily snowfall	48
<b>Total</b>	<b>259</b>

### The Highlight of the Month\*

A highest daily maximum snowfall record of **26 inches** was broken at **Dunn Center** on **April 13**, exceeding the previous record that was set in 1991 by **17.5 inches** (years on record: 103).

\*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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