



North Dakota Monthly Climate Summary

June 2022

Volume 16, No. 6

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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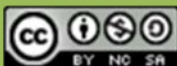
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Based on the National Centers for Environmental Information (NCEI), the statewide average June precipitation was 2.2 inches, which was 1.69 inches less than last month and 0.27 inches less than in June 2021. It was also 1.28 inches less than the 1991-2020 average, making it the 18th driest June in the 128-year period of record (Table 1).

The counties shaded in brown in Figure 1 indicate drier-than-average conditions in June 2022. A white shading indicates near-average conditions. The numbers inside the counties are the precipitation rankings, with 1 being the lowest ranking (driest) and 128 being the highest ranking (the wettest)

The greatest monthly precipitation accumulation was 6.26 inches, recorded in Sheyenne, Eddy County. The greatest monthly snowfall accumulation, on the other hand, was only a trace, recorded in Williston, Williams County. Based on historical records, statewide June precipitation showed a slight negative long-term trend of 0.27 inches during the last century. The lowest and highest June precipitation for the state during this period ranged from 1.11 inch in 1974 to 7.01 inches in 2005 (Figure 2).

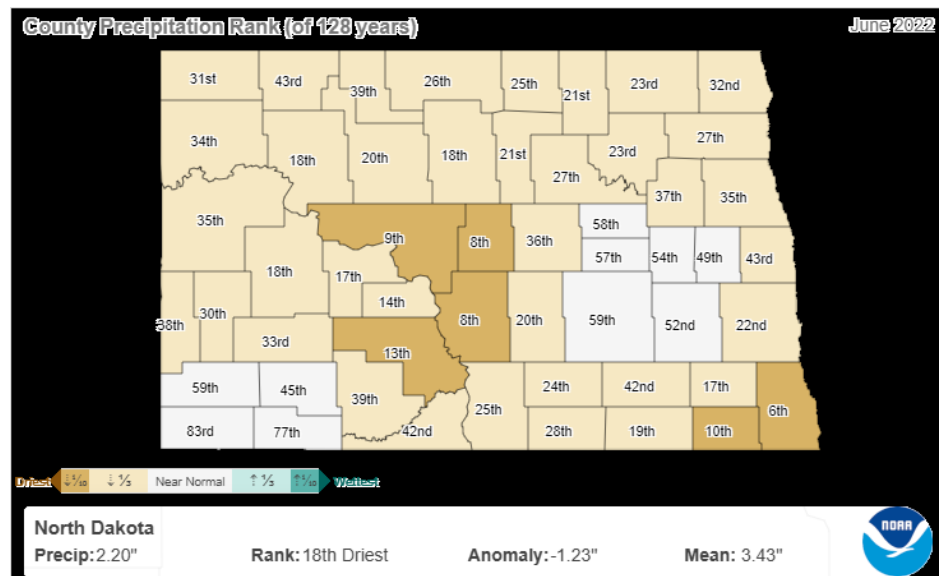


Figure 1. June 2022 county precipitation ranking map of North Dakota. (National Centers for Environmental Information, NOAA)



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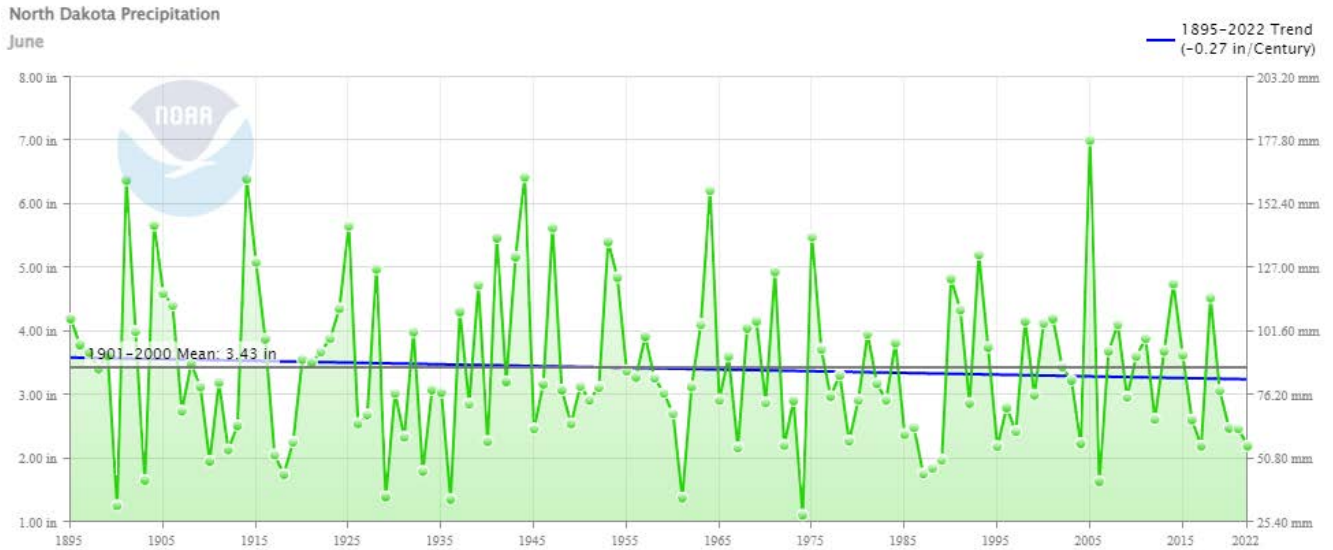


Figure 2. Historical June precipitation time series for North Dakota. (NCEI, NOAA)

Table 1. North Dakota June Precipitation Ranking Table.

Period	Value	Normal	Anomaly	Rank	Wettest/Driest Since	Record Year
June 2022	2.2"	3.48"	-1.28"	18th driest 111th wettest	Driest since 2017 Wettest since 2021	1.11" (1974) 7.01" (2005)



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Temperature

The official state average June temperature was 64.4 F, which is 11.4 degrees warmer than last month but 4.9 degrees cooler than June 2021. Furthermore, the average June temperature was only 0.8 degrees warmer than the 1991-2020 average, making it the 42nd warmest June in the 128 years of record (Table 2).

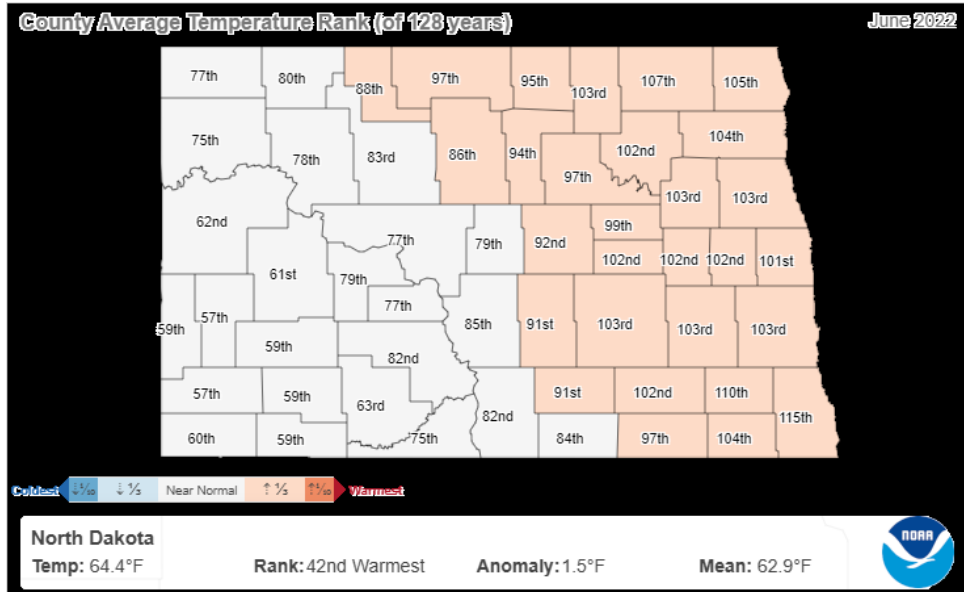


Figure 3. June 2022 county temperature ranking map of North Dakota. (National Centers for Environmental Information, NOAA)

The counties shaded in peach in Figure 3 indicate warmer-than-average conditions. A white shading indicates near-average conditions. The numbers inside the counties are the temperature rankings, with 1 being the lowest ranking (coldest) and 128 being the highest ranking (the warmest).

The state’s lowest and highest daily temperatures ranged from 28 F on June 3 in Center, Oliver County, to 101 F on June 19 in Fargo, Cass County. The state average June temperature showed a steep positive long-term trend of 1.8 degrees during the last century based on the historical records. The lowest and highest monthly state June average temperatures during this period ranged from 56.8 F in 1915 to 74.1 F in 1988 (Figure 4).



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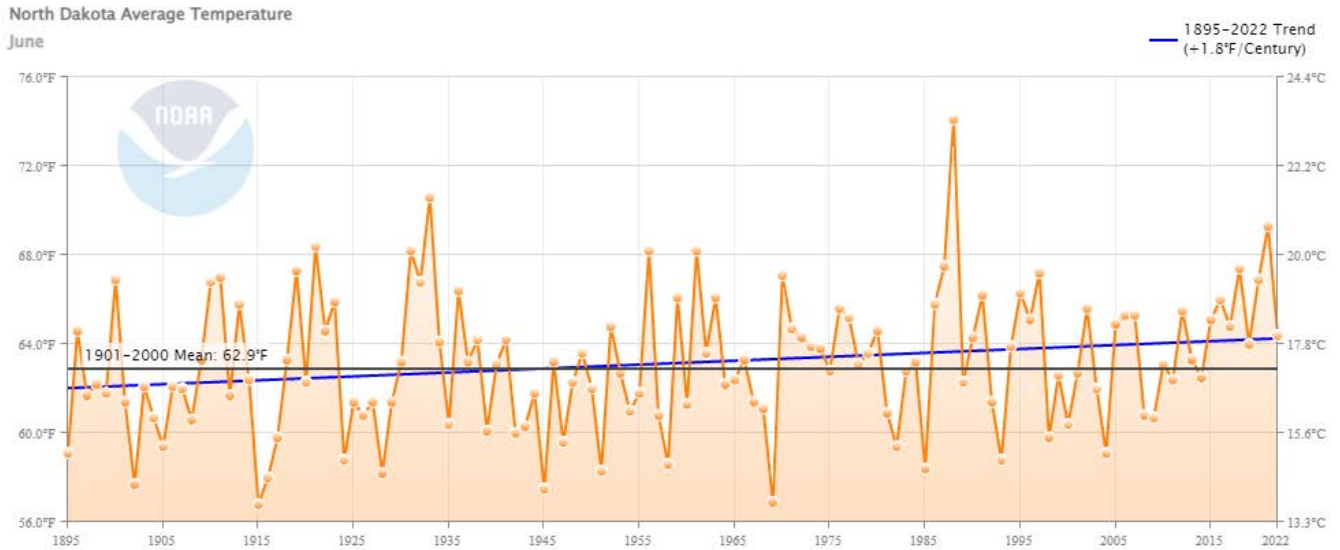


Figure 4. Historical June temperature time series for North Dakota. (NCEI, NOAA)

Table 2. North Dakota June Temperature Ranking Table.

Period	Value	Normal	Anomaly	Rank	Warmest/Coollest Since	Record Year
June 2022	64.4°	63.6°	0.8°	87th coolest 42nd warmest	Coollest since 2019 Warmest since 2021	56.8 F (1915) 74.1 F (1988)



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

The NOAA Storm Report recorded six tornados, and 42 hail and 87 damaging wind reports, with a total of 135 significant storm events in June. Table 3 summarizes the number of tornado, hail and damaging wind reports in June, while Figure 5 geographically displays the locations of these storms.

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

Category	Number of Reports
<i>Tornado reports</i>	6
<i>Hail reports</i>	42
<i>Wind reports</i>	87
Total	135

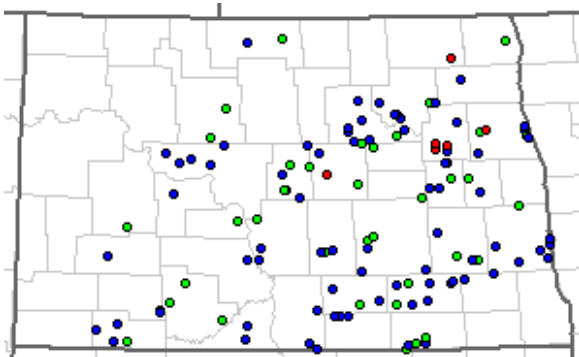


Figure 5. Map of June 2022 North Dakota storm events (red: tornado; blue: wind; green: hail). (Storm Prediction Center, NOAA)



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Daily Record Events in June: Across the observation network of weather stations with at least 30 years of history, 64 daily high-temperature records and only eight 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 June. (NCEI Daily Weather Records)

Category	Number of Records
Highest daily max. temp.	29
Highest daily min. temp.	35
Lowest daily max. temp.	3
Lowest daily min. temp.	2
Highest daily precipitation	6
Highest daily snowfall	0
Total	75

The Highlight of the Month*

A highest daily maximum temperature record of **101 degrees** was broken in **Fargo** on **June 19**, exceeding the previous record that was set in 1988 by **3 degrees**. (years on record: 131)

*The records in this box may differ 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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