



North Dakota Monthly Climate Summary

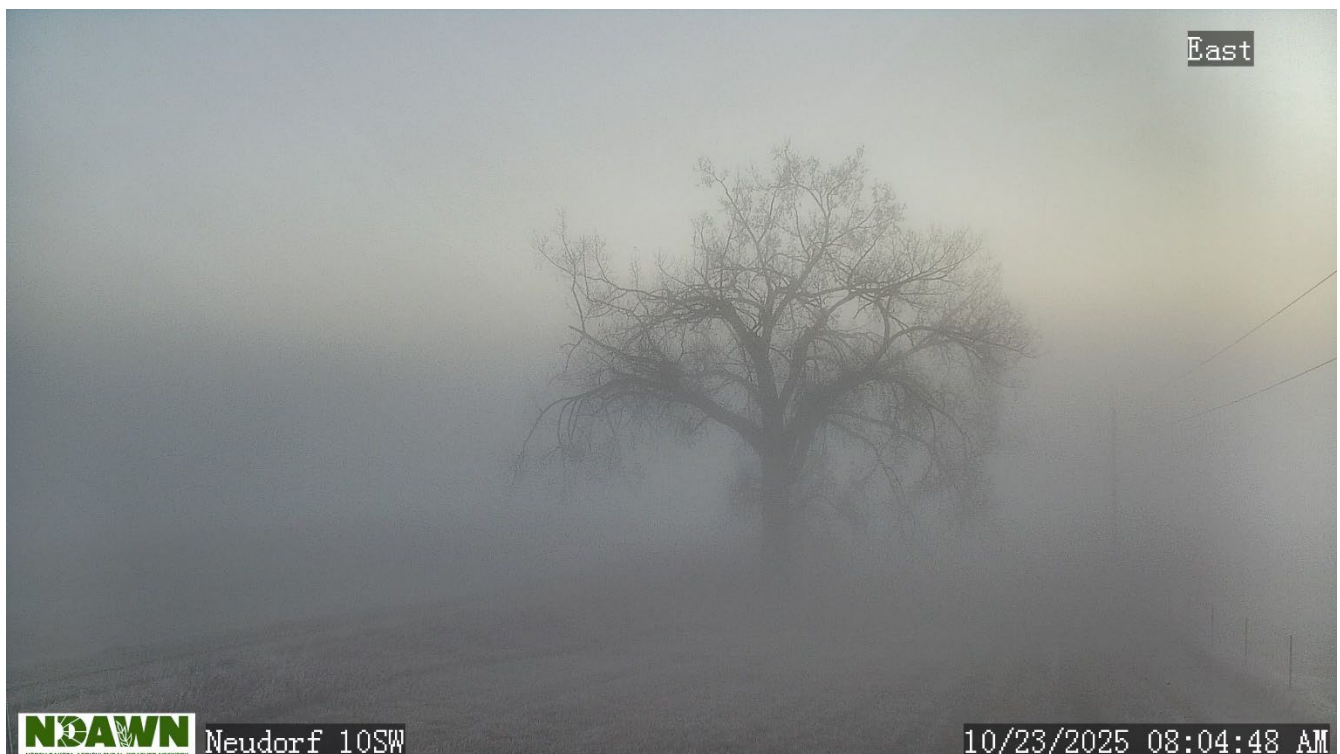
October 2025

Volume 19. No. 10

NORTH DAKOTA STATE CLIMATE OFFICE



October 2025



A lone tree in the morning fog at Neudorf 10SW NDAWN

By October, autumn is in full swing and often the first taste of winter arrives in North Dakota as the first flakes fall. This year no major snows were recorded across the state, not unusual from a historical perspective, yet, different from the past decade when several Octobers recorded a significant snow storm.



Figure 1: Fires can be common in October, but this year with the wet conditions generally only controlled fires were seen, like this one recorded at the NDAWN White Earth station.

Precipitation

The month was above average for temperatures across the entire state, but precipitation varied quite a bit, with a narrow band from south central to the northeastern portion of the state recording well above average rainfall. Much of the rain was associated with just two storms that both traveled in nearly identical paths producing the heavy rain band.

Percent of Normal Precipitation (%)

10-01-2025 - 10-31-2025

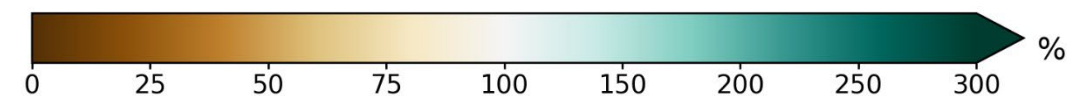
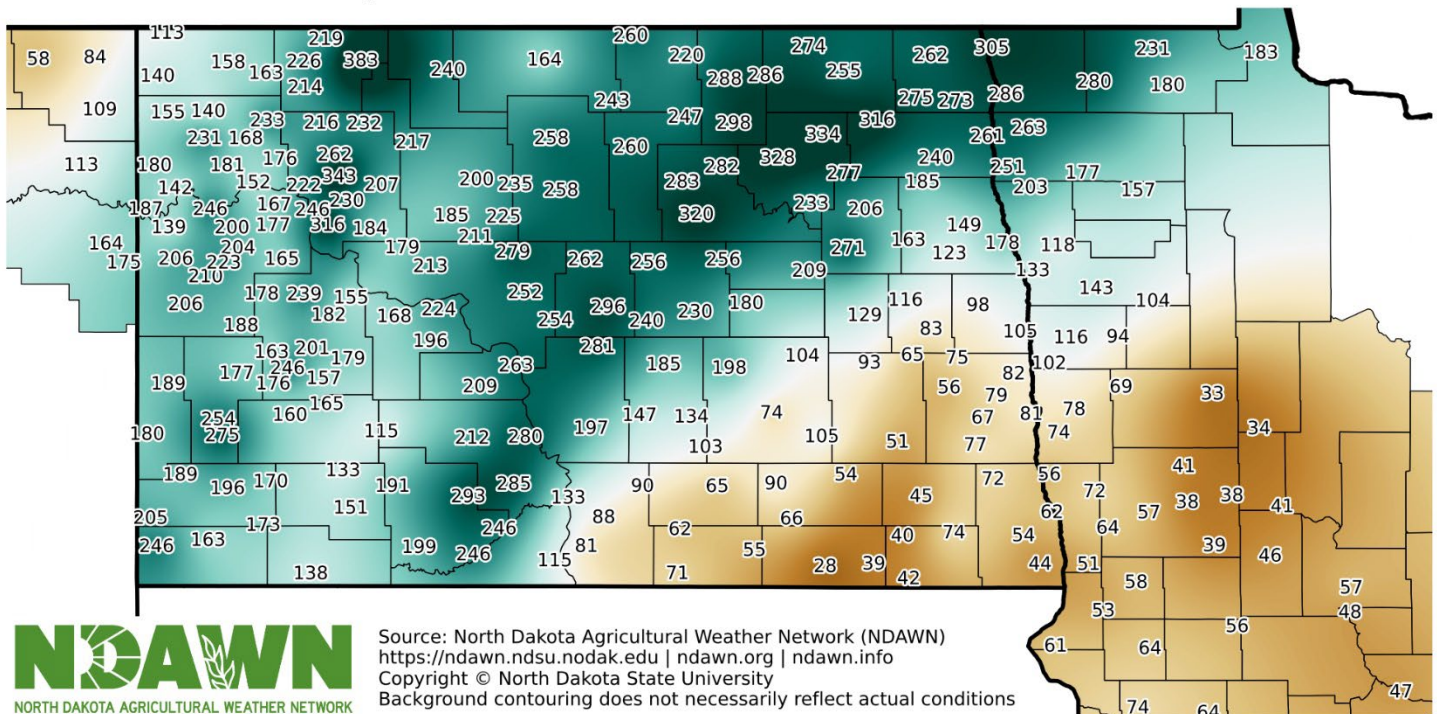
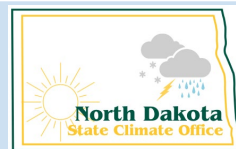


Figure 2: Percent of Average Precipitation measured at NDAWN stations in October 2025

Precipitation



The maximum monthly precipitation recorded by NDAWN in North Dakota during the month of October was 5.11 inches at the Edmore station in eastern Ramsey County. That was 334% of average. On the dry side of things, in Dickey County, North Dakota, the Ellendale NDAWN station recorded only 0.58 inches of precipitation, 28% of normal (Figure 3).

Total Precipitation (in)

10-01-2025 - 10-31-2025

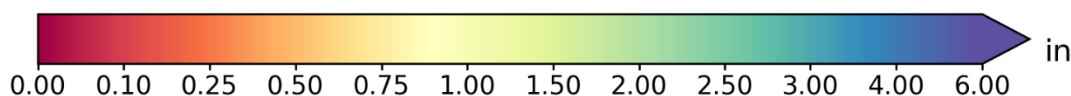
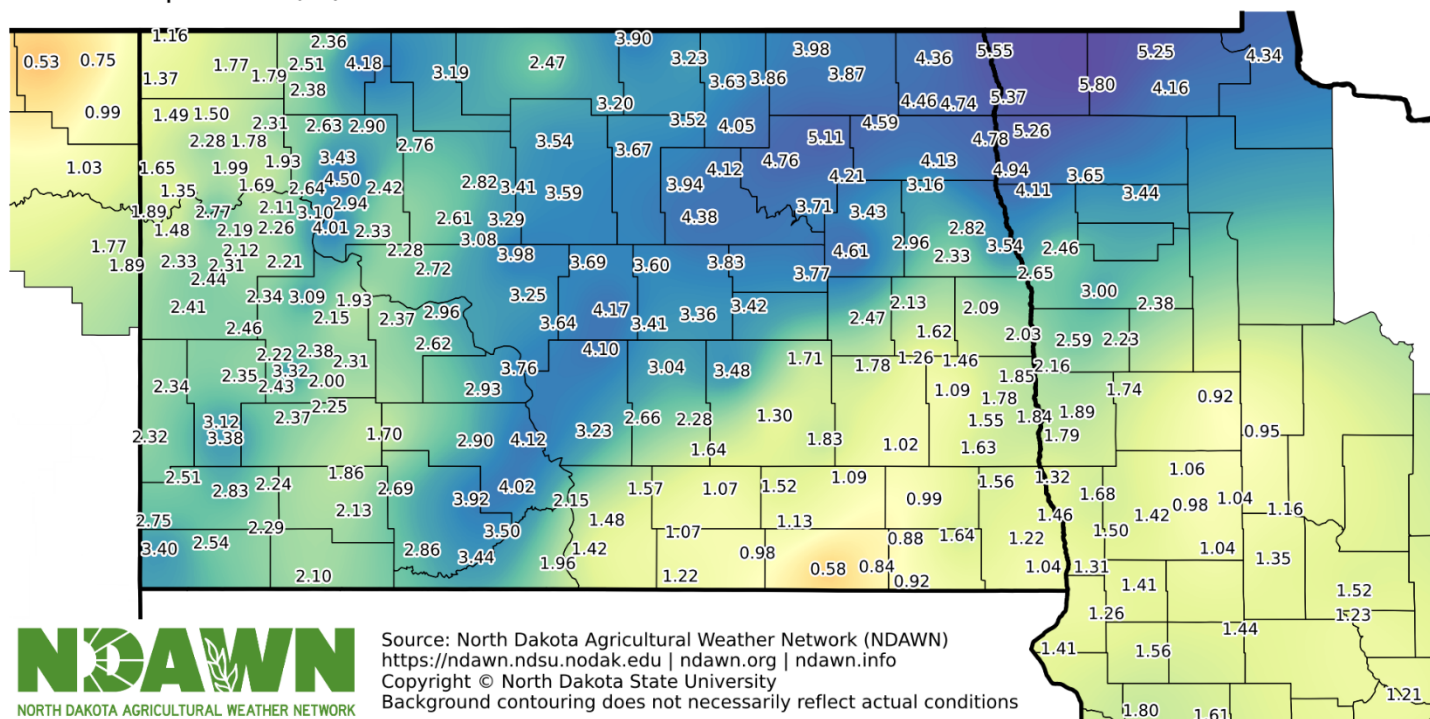
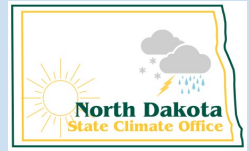


Figure 3: Total Precipitation measured at NDAWN stations in October 2025

Precipitation

4



From a long-term perspective, the Red River Valley and parts of eastern North Dakota are slightly below average precipitation-wise, while the rest of the state is at to slightly above average (Figure 4).

Percent of Normal Precipitation (%)

01-01-2025 - 10-31-2025

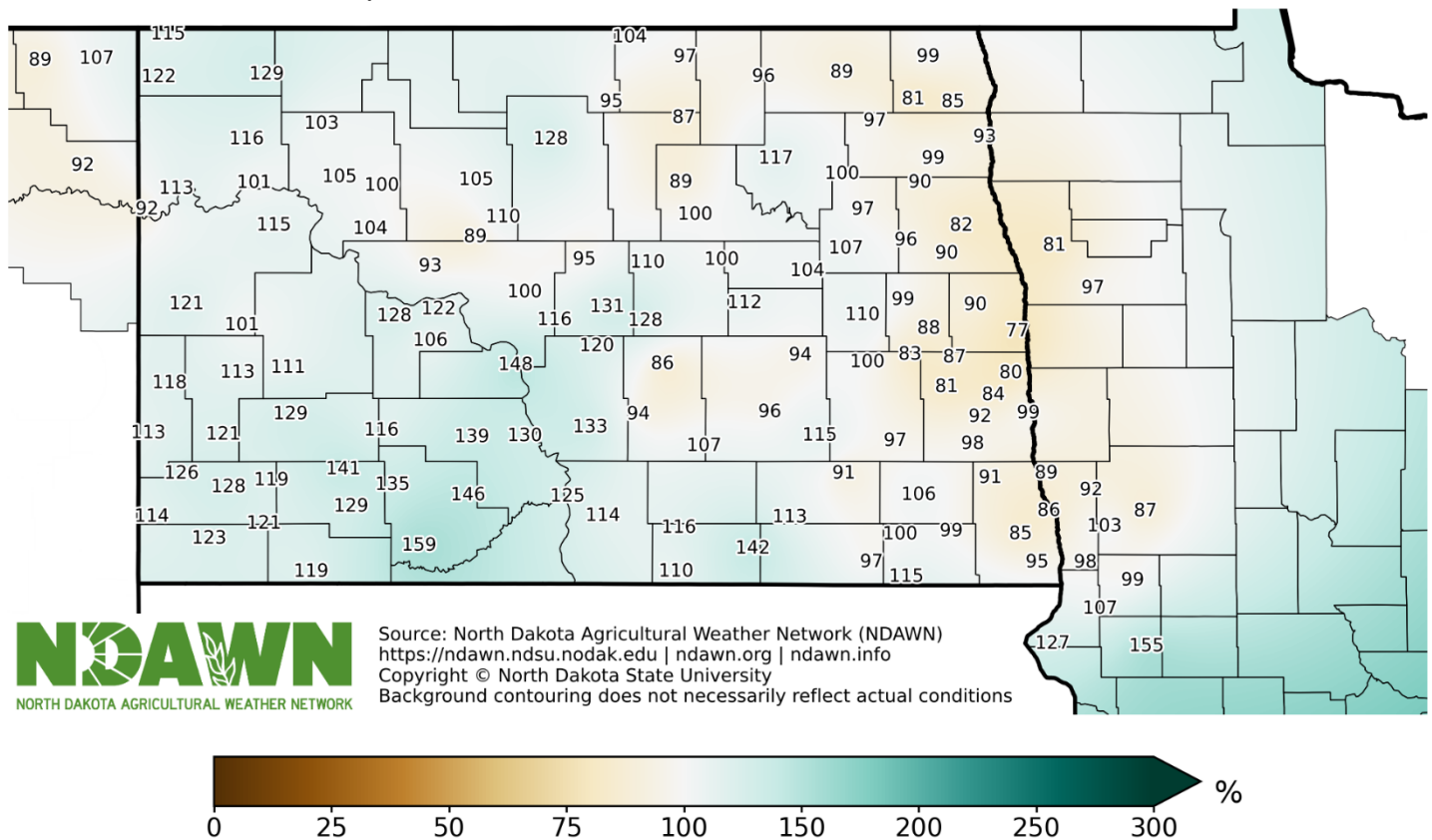
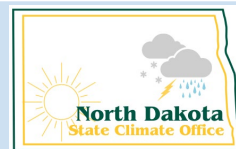


Figure 4: Percent of Average Precipitation measured at NDAWN stations with all-season gauges from January through October

Precipitation

5



Abnormally Dry (D0) conditions retreated slightly in western ND thanks to nearly 200% of average precipitation, but were introduced in eastern ND due to below average precipitation. (Figure 5).

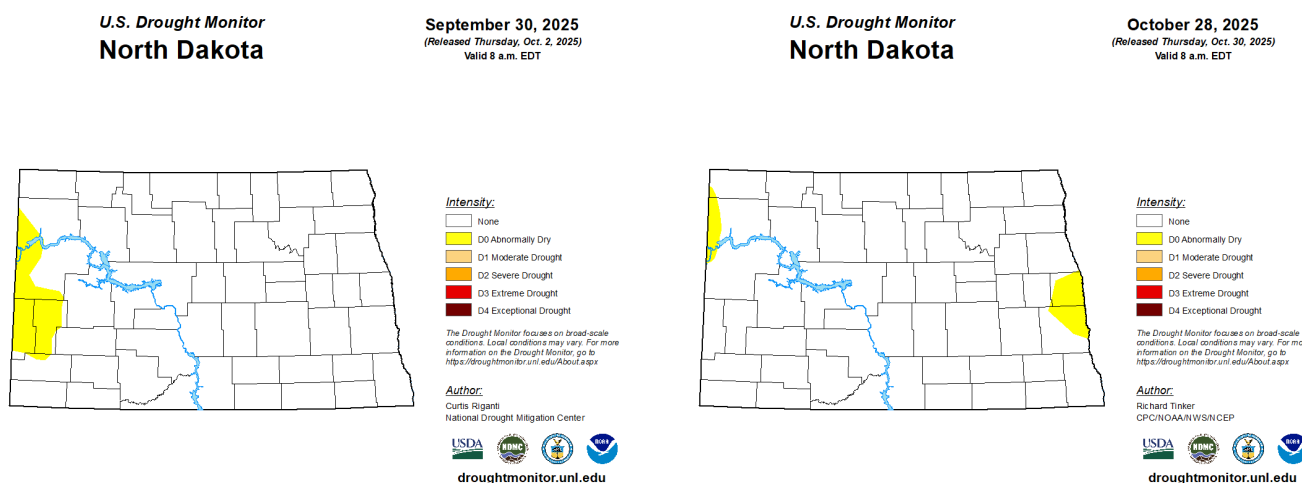


Figure 5: U.S. Drought Monitor conditions change between September 30, 2025 (left) to October 28, 2025 (right)

North Dakota Precipitation October

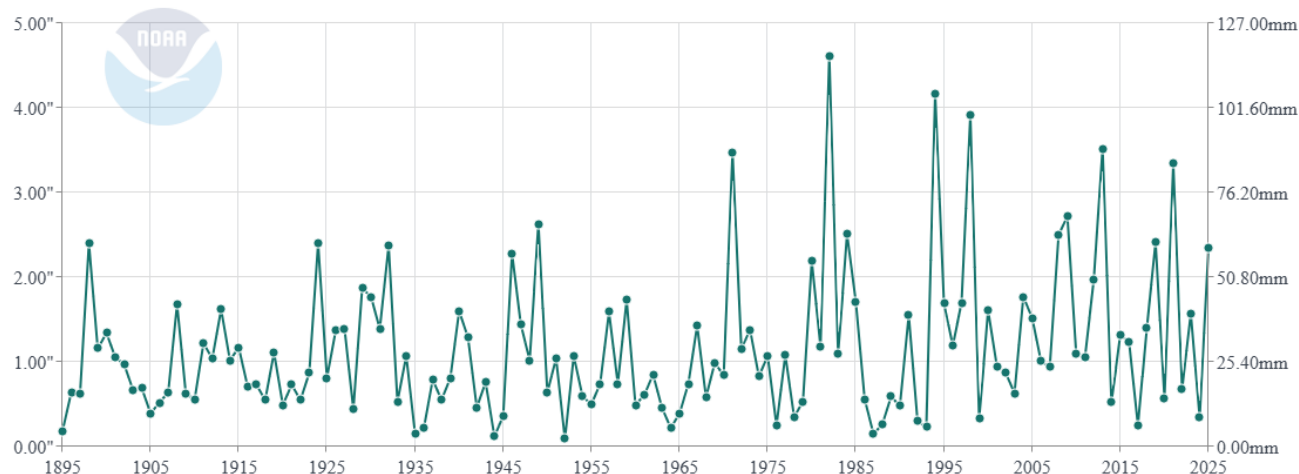


Figure 6: Average Precipitation in North Dakota for the month of October (via NCEI)

Precipitation

6

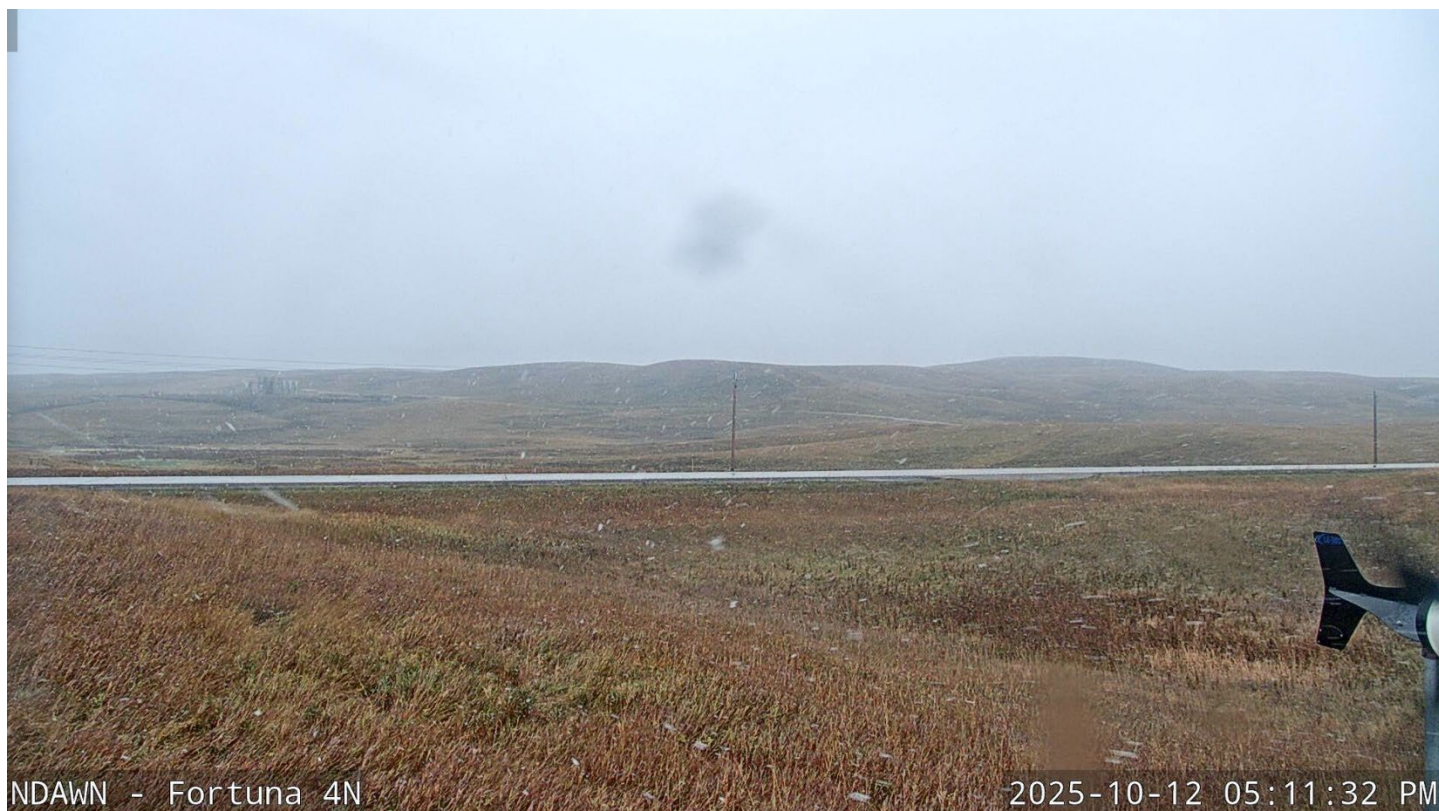


Figure 7: The first snowflakes of the season fell in mid-October in northwestern North Dakota

North Dakota October Precipitation Summary

	Precipitation	Normal	Anomaly	Rank	Record Year
October 2025	2.59"	1.58"	+1.01"	9th Wettest	4.61" (1982)
				123rd Driest	0.09" (1952)

Table 1: October precipitation summary for North Dakota. 2025 statistics from NDAWN station data. Ranking and records based on NCEI climate data (1895-2025) (NOAA).

Temperature

October followed in September's footsteps and was well above average again (Figure 8). North Dakotan NDAWN stations averaged an air temperature of 48.3°F, which is 4.8°F above normal. This is the 5th October in a row that has been above average temperature-wise (2021-2025).

Departure from Normal Average Air Temperature (° F)

10-01-2025 - 10-31-2025

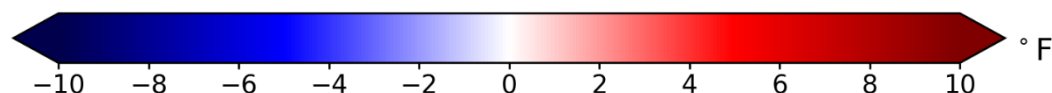
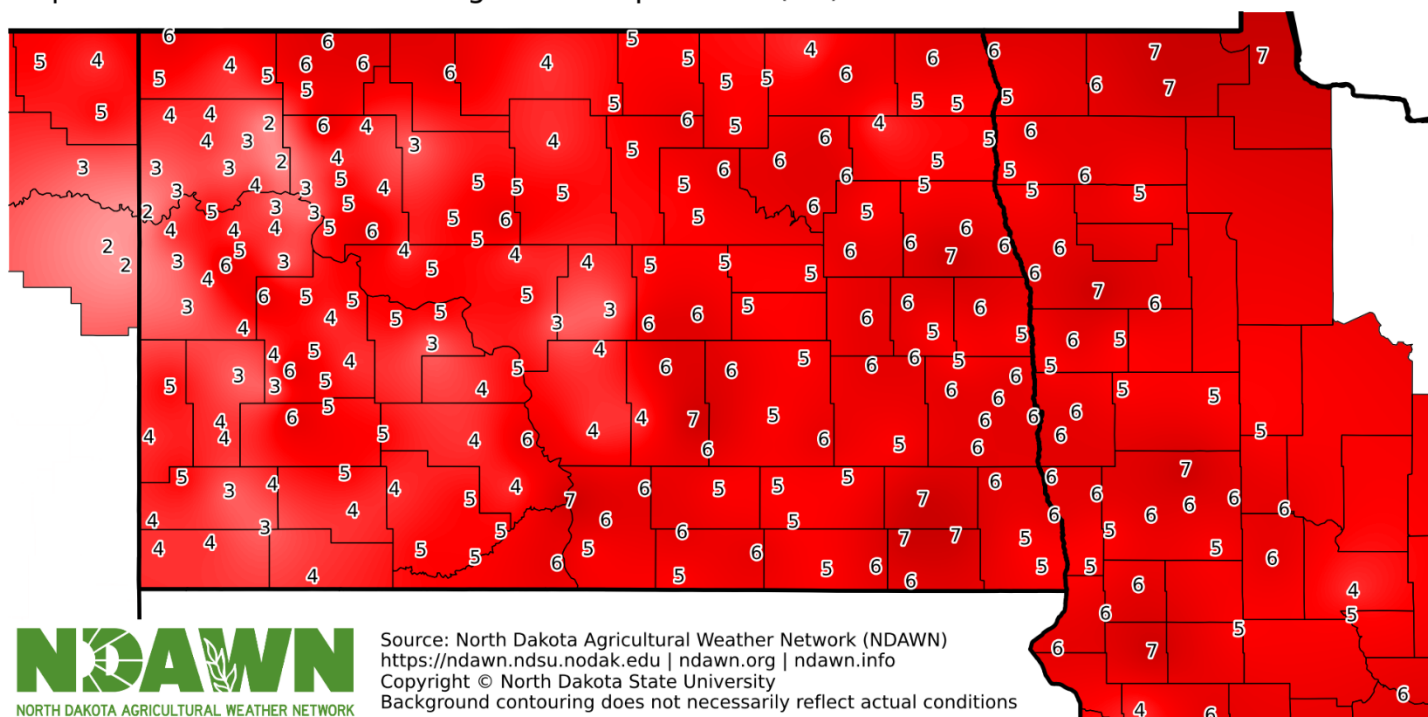


Figure 8: Departure from Normal Average Air Temperature measured at NDAWN stations in October 2025

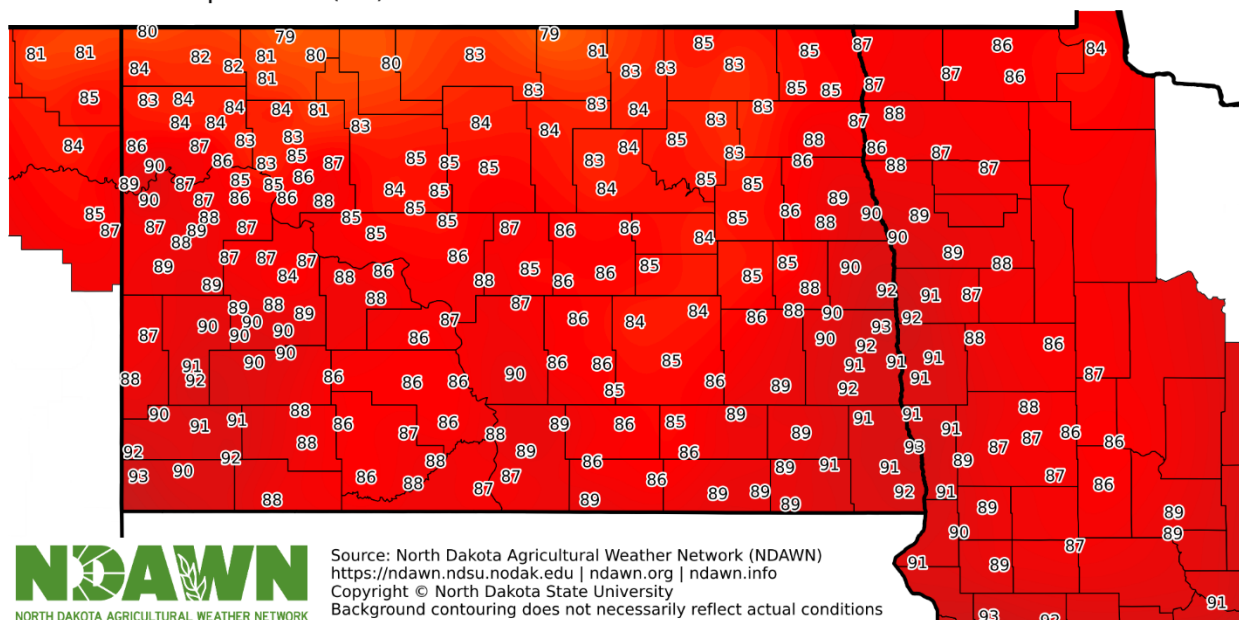
Temperature



The Sunny Slope NDAWN station recorded a maximum of 93°F on October 3 (Figure 9). Sunny Slope recorded the most 90°F+ days at NDAWN with 26.

Maximum Temperature (° F)

10-01-2025 - 10-31-2025



NDAWN
NORTH DAKOTA AGRICULTURAL WEATHER NETWORK

Source: North Dakota Agricultural Weather Network (NDAWN)
<https://ndawn.ndsu.nodak.edu> | ndawn.org | ndawn.info
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Background contouring does not necessarily reflect actual conditions

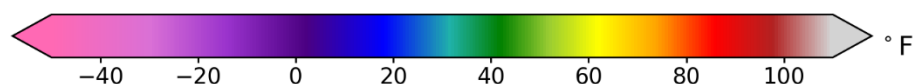


Figure 9: Maximum Air Temperature measured at NDAWN stations in October 2025

North Dakota Maximum Temperature
October

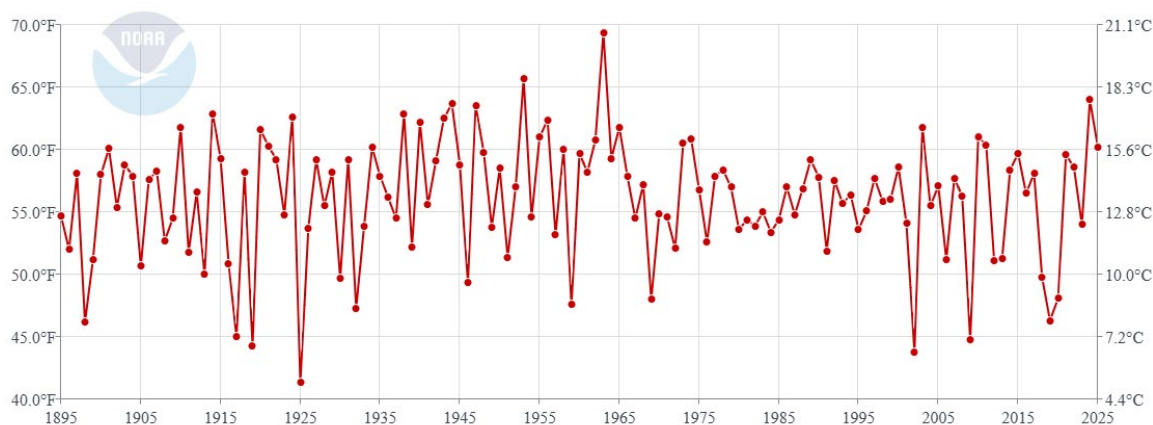


Figure 10: Average Maximum Temperature in North Dakota for the month of October (via NCEI)

Temperature

The lowest temperature recorded during October at NDAWN stations was 15°F at the Fairfield, Four Bears, and New Hradec stations (Figure 11).

Minimum Temperature (° F)

10-01-2025 - 10-31-2025

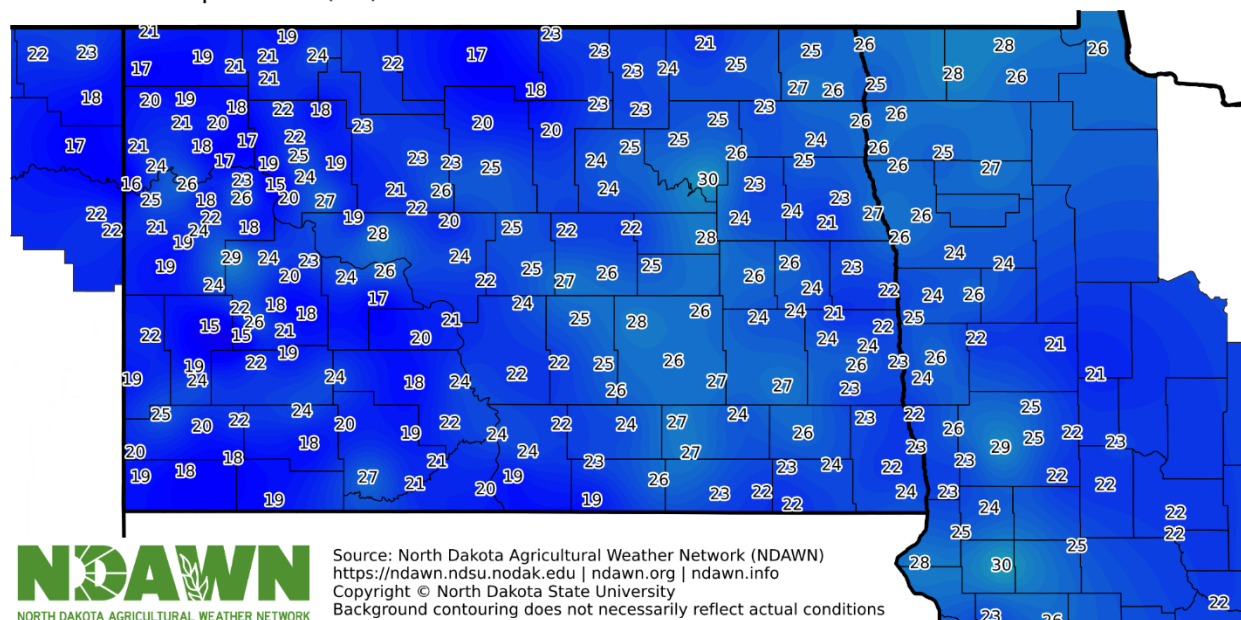


Figure 11: Minimum Air Temperature measured at NDAWN stations in October 2025

North Dakota Minimum Temperature

October

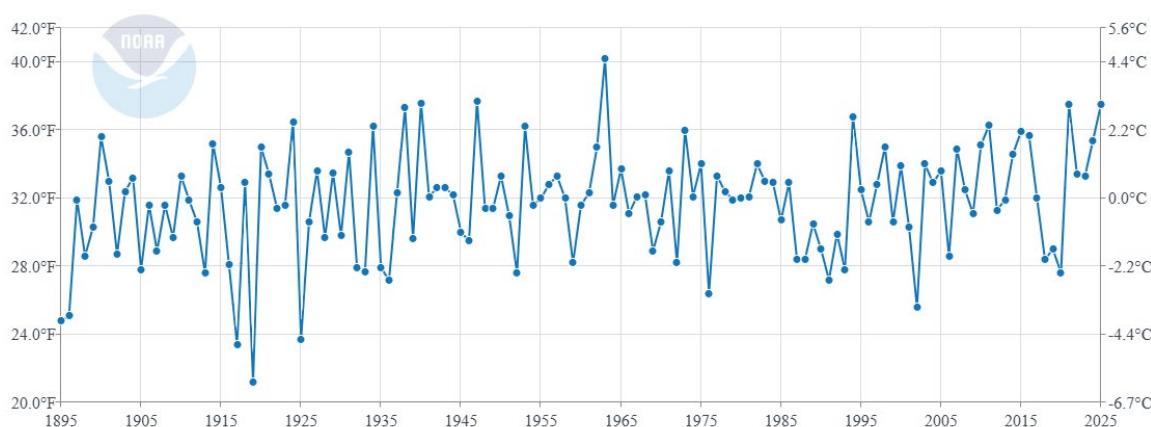


Figure 12: Average Minimum Temperature in North Dakota for the month of October (via NCEI)

North Dakota October Temperature Summary

October 2025	Average T	Avg max T	Avg min T	Maximum	Minimum
	48.3°F	59.6°F	37.0°F		
Anomaly	+4.8°F	+4.5°F	+5.2°F	93°F	15°F
Rank					
Warmest	12th warmest	30th Warmest	6th Warmest		
Coolest	121st Coldest	103rd Coldest	126th Coldest		
Record					
Warmest	54.8°F (1963)	69.4°F (1963)	40.2°F (1963)		
Coolest	32.6°F (1925)	41.4°F (1925)	21.2°F (1919)		

Table 2: October temperature summary for North Dakota. 2025 statistics from NDAWN station data. Ranking and records based on NCEI climate data (1895-2025) (NOAA).

North Dakota Average Temperature

October

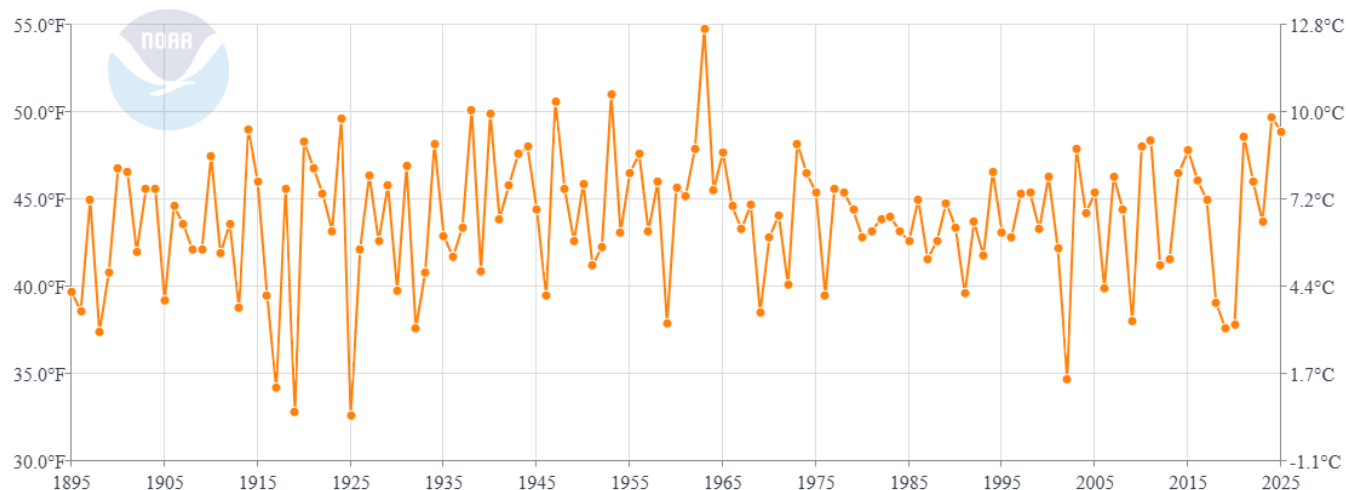


Figure 13: Average Temperature in North Dakota for the month of October (via NCEI)

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