



# North Dakota Monthly Climate Summary

July 2013

## Precipitation:

The North Dakota Agricultural Weather Network recorded precipitation totals were generally below normal in the east and west central edge with near normal and above elsewhere (Figure 1). There were many scattered thunderstorms throughout the month. The greatest NDAWN total precipitation amount was 5.62 inches at Minot which is 220% above normal. The Storm Prediction Center (SPC) reported one tornado on the 9<sup>th</sup> in Morton County. The SPC reported two tornadoes spotted on the 21<sup>st</sup> in McHenry and Ramsey County along with a significant amount of hail in several Counties. Some locations in the southwest reported baseball sized hail. The end of July was cool and dry. The dry conditions have stressed crops in many areas. The U.S. Drought Monitor June 30<sup>th</sup> report listed 16.55% of the state as being Abnormally Dry (D0) and included McIntosh, Logan, Kidder, Stutsman, Eddy, Foster and Griggs Counties.

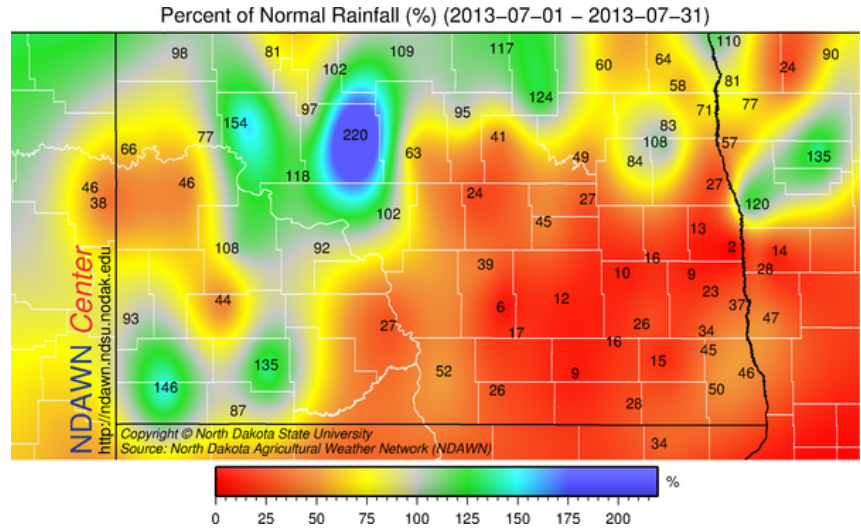


Figure 1. Precipitation Percent of Normal in July 2013 for North Dakota (North Dakota Agricultural Weather Network, NDAWN)

## Temperature:

NDAWN July average air temperatures ranged from ~65 °F in the north to ~72 °F in the southeast. Departure from normal average air temperatures ranged from 1 °F to -4 °F (Figure 2). The daily average air temperatures were primarily above normal until the 19<sup>th</sup> after which a cold air mass settled in causing the daily average air temperatures to fall below normal for the remainder of the month. Average air temperatures were 5 to 20 °F below normal on the 27<sup>th</sup> and 28<sup>th</sup>. The National Weather Service reported new minimum average air temperature records set on the 27<sup>th</sup> at Jamestown and Bismarck with 42 °F and 39 °F, respectively. Grand Forks Airport and Jamestown set new minimum average air temperatures on the 28<sup>th</sup> with 42 °F and 41 °F, respectively.

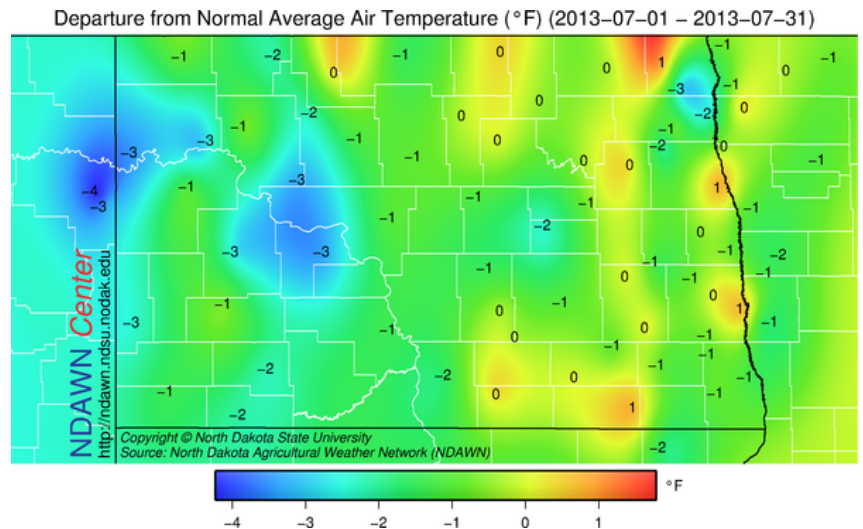


Figure 2. Temperature Departure from Normal in July 2013 for North Dakota (North Dakota Agricultural Weather Network, NDAWN)