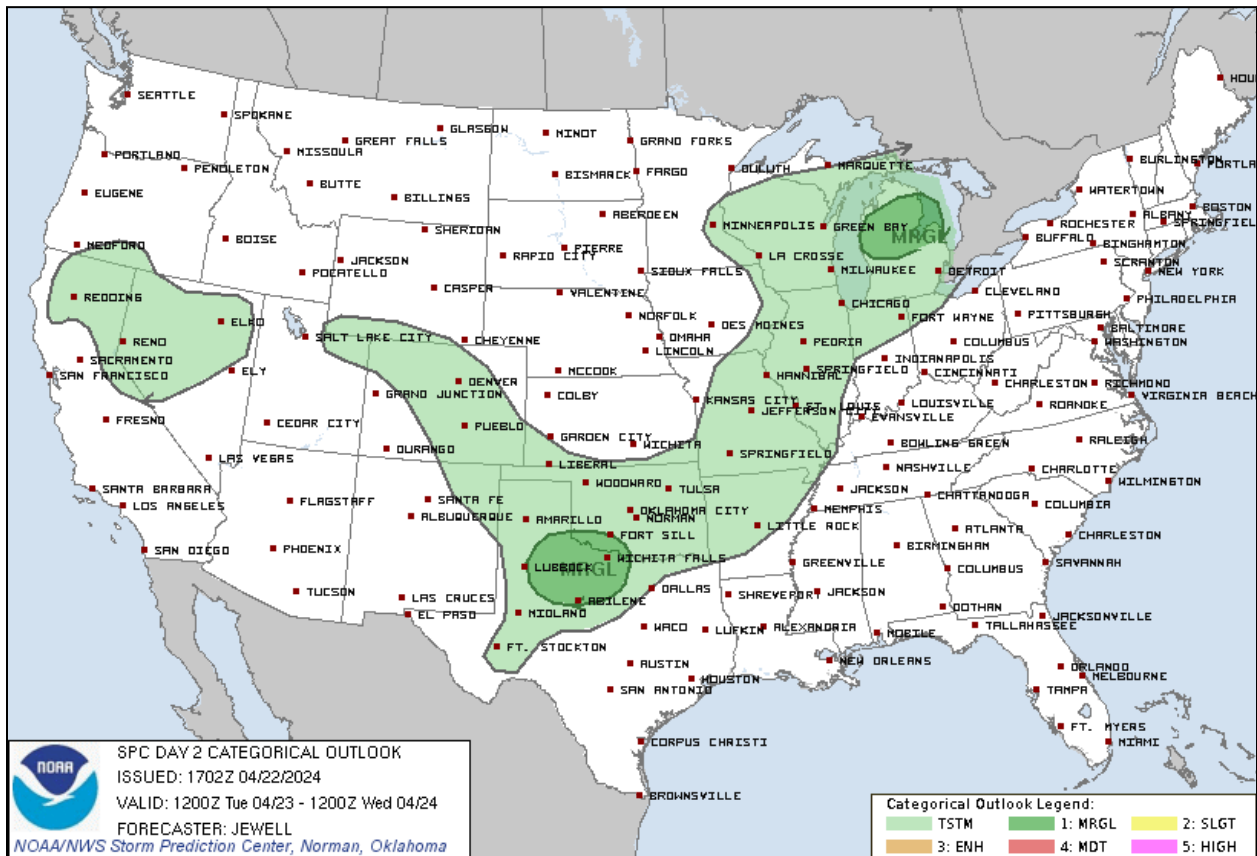


## Weekly Climate Summary: 4/14/2024-4/20/2024

### Climate in the News:

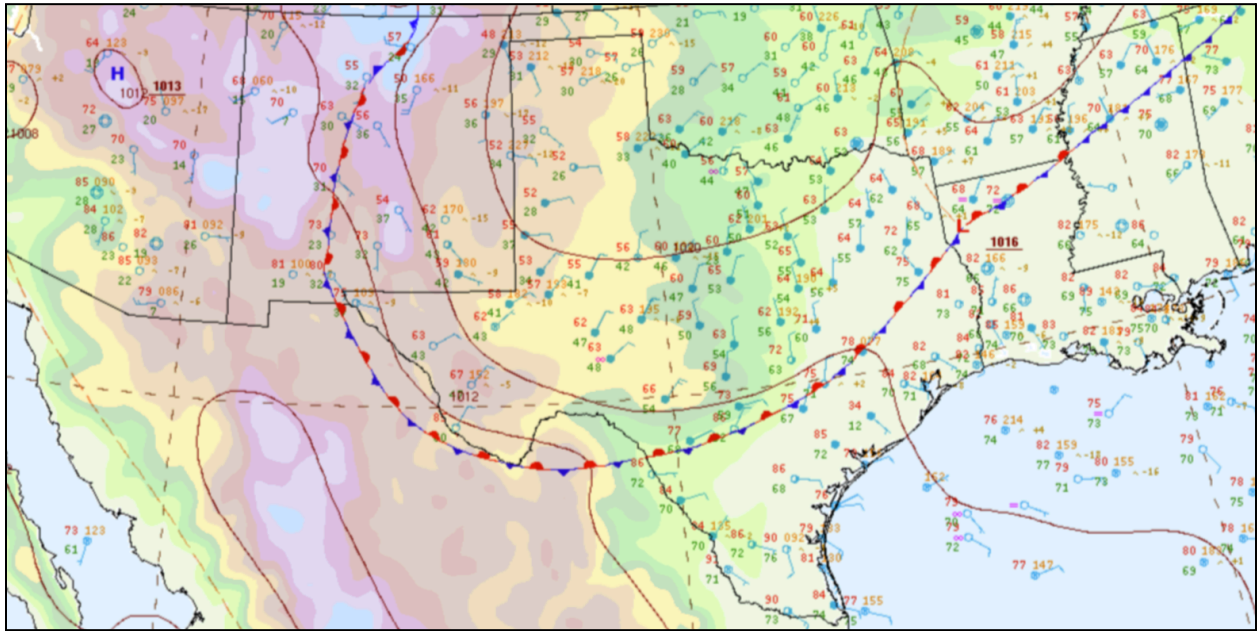
Severe weather is expected throughout this week, starting on Tuesday afternoon in northwest Texas, with chances continuing into the weekend. A low pressure system will develop near the Texas panhandle and move northeastward throughout the week, bringing higher chances for thunderstorms to northeast Texas by Friday. Conditions supporting damaging winds and hail beginning Tuesday afternoon, when areas near Abilene, and Wichita Falls, are most likely to receive thunderstorms. Few tornadoes are possible to be formed in storms produced later in the week in the northeast.



*Risk of severe thunderstorms produced in the United States on Tuesday, April 23, 2024, by the Storm Prediction Center. Areas highlighted in dark green have a Marginal risk, where isolated severe thunderstorms are possible. Severe thunderstorms may be limited in coverage, as thunderstorms on this day will depend on daytime temperatures. Shaded in light green are areas expected for non-severe thunderstorms with lightning and flooding being the only concerns.*

## Weather Synopsis:

Texas in the week of April 14-20 experienced widespread severe thunderstorms. Early in the week, a cold front that draped down through panhandle and west Texas initiated storms as it moved across the state. Because of this setup, storms reportedly produced quarter sized hail south of the panhandle. On Thursday, another cold front swept southward from north of the panhandle, and it eventually slowed down and stalled over south and southeast Texas over Friday and Saturday. Warm and moist air from the Gulf of Mexico rose over the cool air to the north, producing isolated thunderstorms that quickly became slow-moving lines of thunderstorms over the southeast. North Texas also received record-breaking rainfall on Saturday.



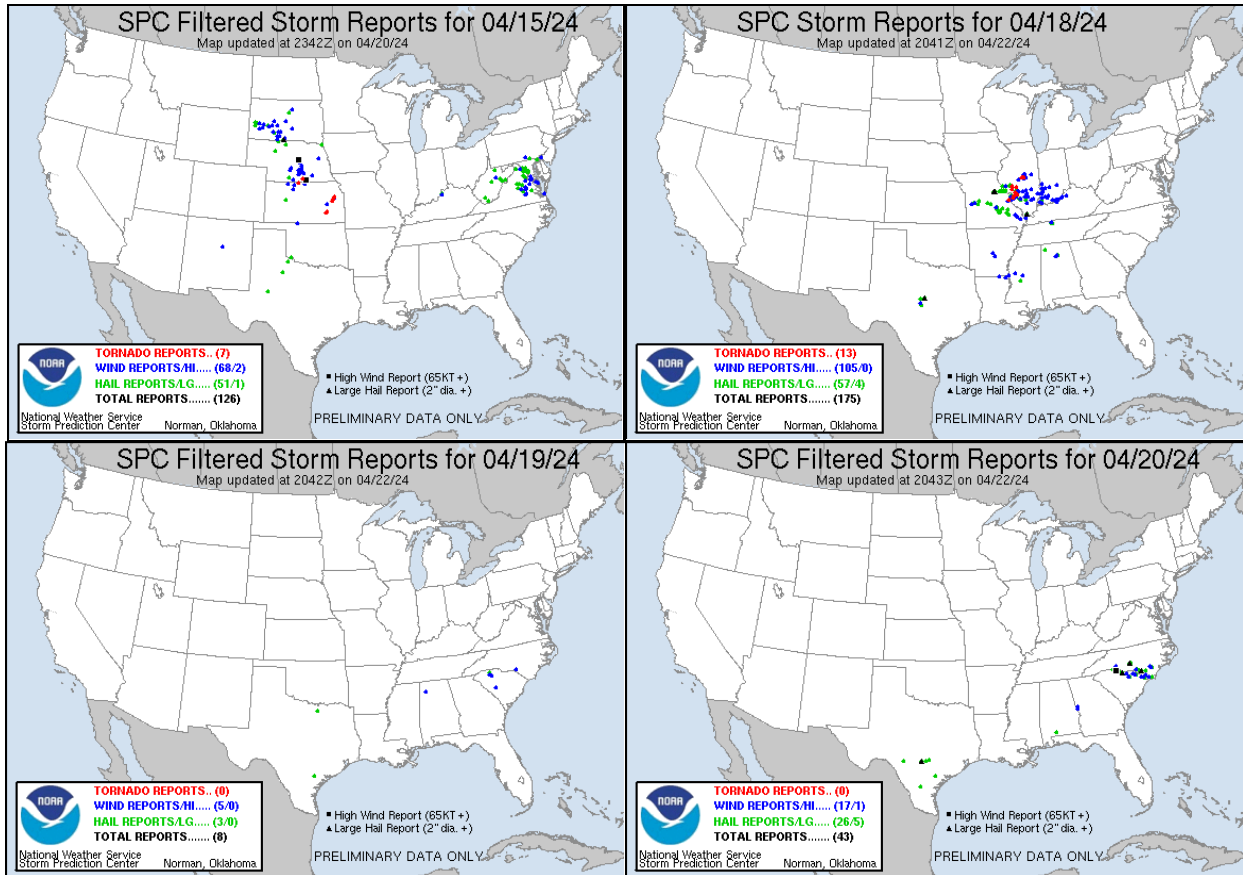
*Map of the stationary front which provided lift for thunderstorms occurring from Friday to Saturday, April 19-20, 2024. Screenshot from Weather Prediction Center's surface analysis on 18Z (1PM CST) Friday.*

## Highlights

College Station received 49 mph wind gusts on April 15th, 2024

El Paso received 57 mph wind gusts on April 15th, 2024

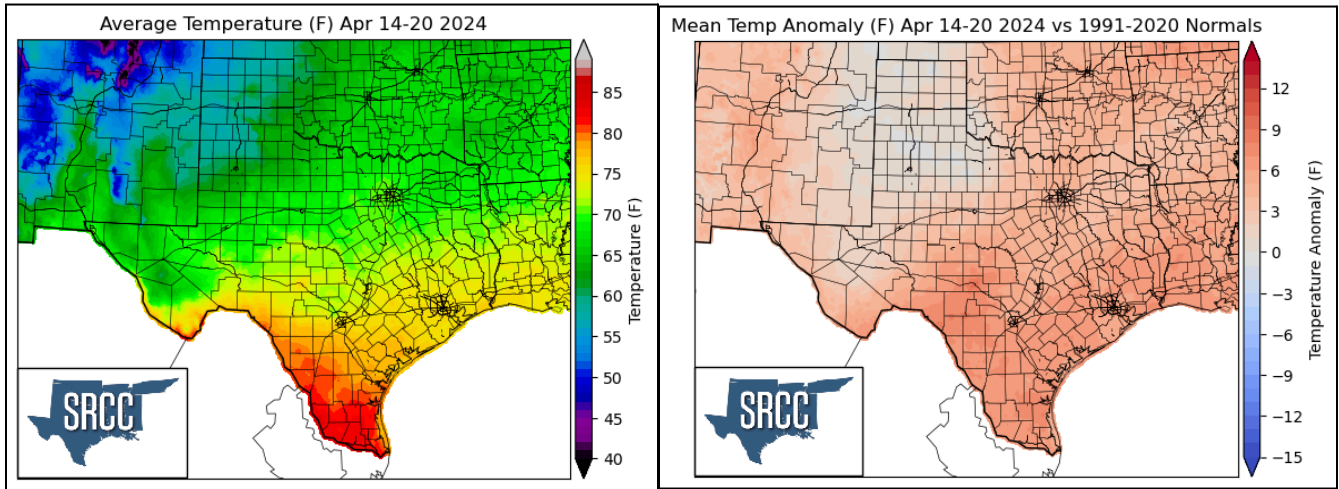
2.25 inch hail reported in Hamilton County on April 18th, 2024



*Maps of storm reports for April 15th, April 18th, April 19th, and April 20th from the Storm Prediction Center. Sixteen total reports were received last week, with 12 reports for significant hail (greater than 1 inch diameter) and 3 damaging wind reports.*

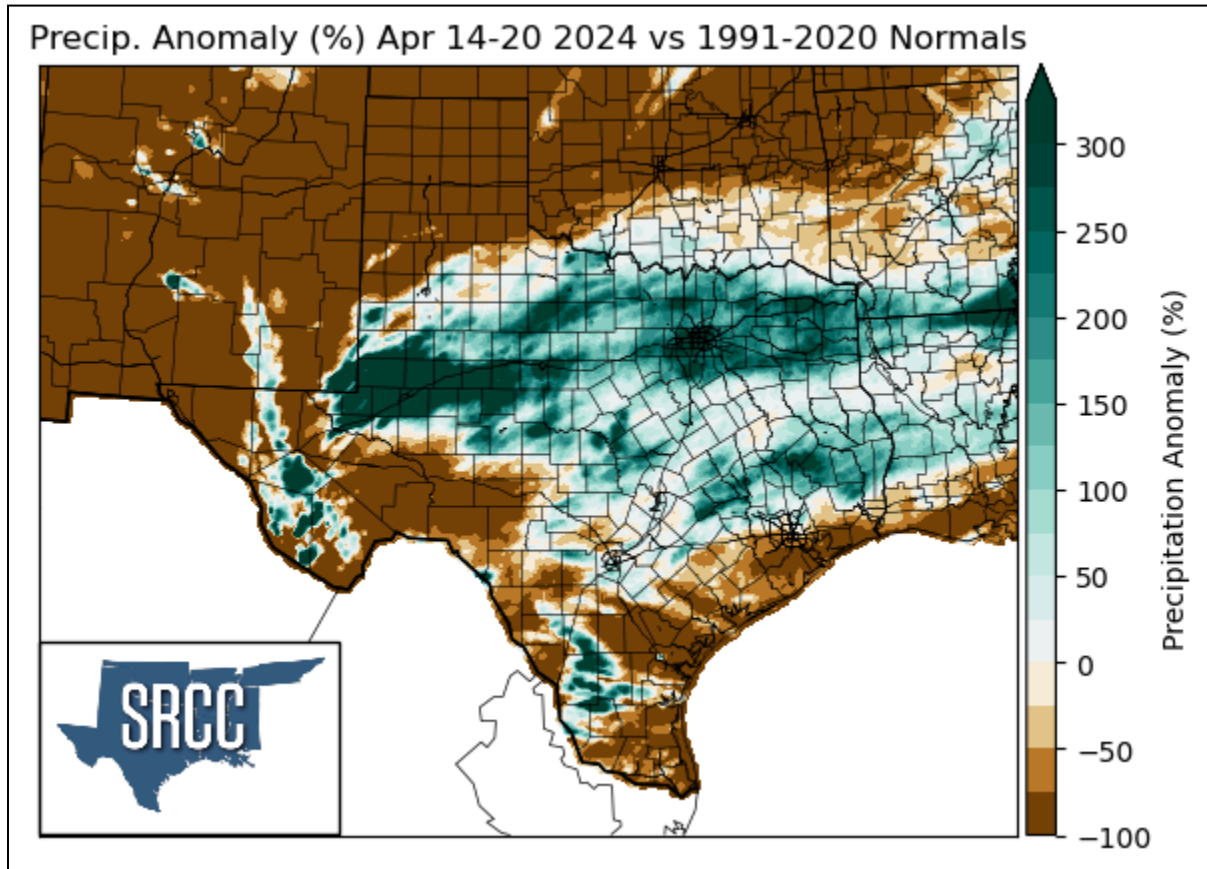
**Temperature:**

Despite multiple cold fronts, temperatures were warm and above normal last week. Temperatures were most above normal in the hill country, with 6 degree Fahrenheit or higher anomalies. The highest average temperatures in the state last week was experienced in the Rio Grande valley at 85 degrees Fahrenheit. The state border near Big Bend National Park also experienced average temperatures above 80 degrees Fahrenheit. The coolest average temperature in the state was just above 55 degrees, in the northwest corner of the panhandle. These cooler temperatures were near normal for the area.



**Precipitation:**

Texas received well above normal rainfall last week, with precipitation anomalies of 300% or more in west Texas, south of the panhandle, in the Rio Grande valley, and throughout the northeast. Still, the panhandle itself and many areas in west and south Texas did not receive precipitation.



Dallas received its fourth-largest single-day rainfall total ever recorded in the month of April on Saturday, April 20, 2024, with 4.22 inches of rain! Many other stations around DFW and southeastward also broke single-day rainfall totals in April, but Dallas received the most significant rainfall. Many areas that received higher than normal rainfall experienced flooding on Saturday. Creeks in the Brazos Valley rose 2-3 ft. The Trinity river and creeks near the Sabine river in northeast Texas continue to experience minor flooding since Saturday's rain event.