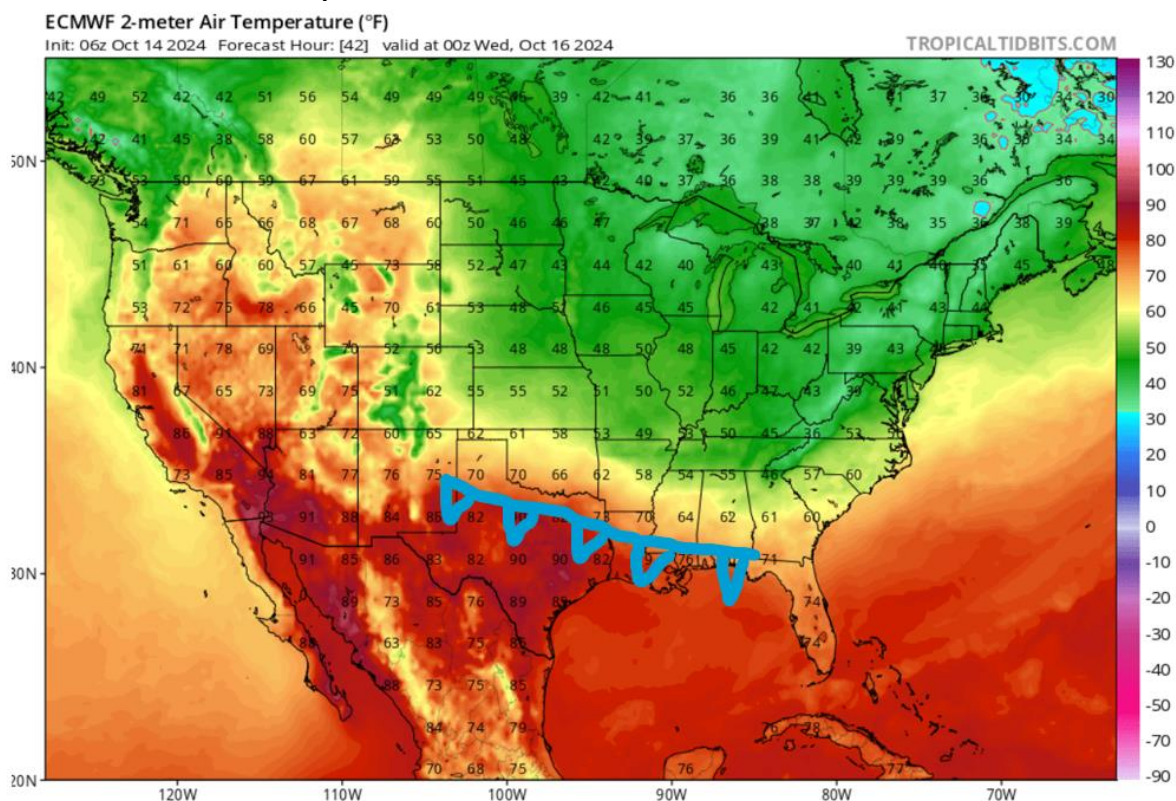


Weekly Climate Summary: 10/6/2024-10/12/2024

I. Climate in the News:

The past week has featured little to keep weather fans entertained across Texas. The same story that typically envelops weather headlines in the summer rings true for the first full week of October, one in which no noticeable cold fronts or pattern shifts take place and the upper-level pattern shows a ridge of high pressure close to or over the state. As such, the pattern was mainly hot and dry with temperatures reflective of values more reasonable for September and precipitation that was absent for most of the state. This being said, a noticeable cold front looks to clear the state midweek during the week of October 13-19, bringing the coldest temperatures seen across Texas since April.



A particular forecast model's rendition of the surface temperature at 7 pm CDT on October 16, 2024. The cold front slated to bring the much-anticipated fall cool-down many Texans have been waiting for is entering the northern portions of the state. This front shows up on all the forecast models, just with different timing, so our confidence in Texas seeing an appreciable cool-down is very high. This image is courtesy of the European Centre for Medium-Range Weather Forecasts and Tropical Tidbits.com

II. Weather Synopsis:

Texas weather was under a regime in which active weather and precipitation were unfavorable. Steady light northeast winds at the surface brought dry air, making for comfortably cool mornings that readily heated to near-record afternoon highs. As noted above, a ridge of high pressure was in control for the state, leading to sinking air at the middle levels, which is

unfavorable for precipitation. As a result, the week was dry with wide temperature spreads from morning to afternoon for many locations across the state.

III. Temperature:

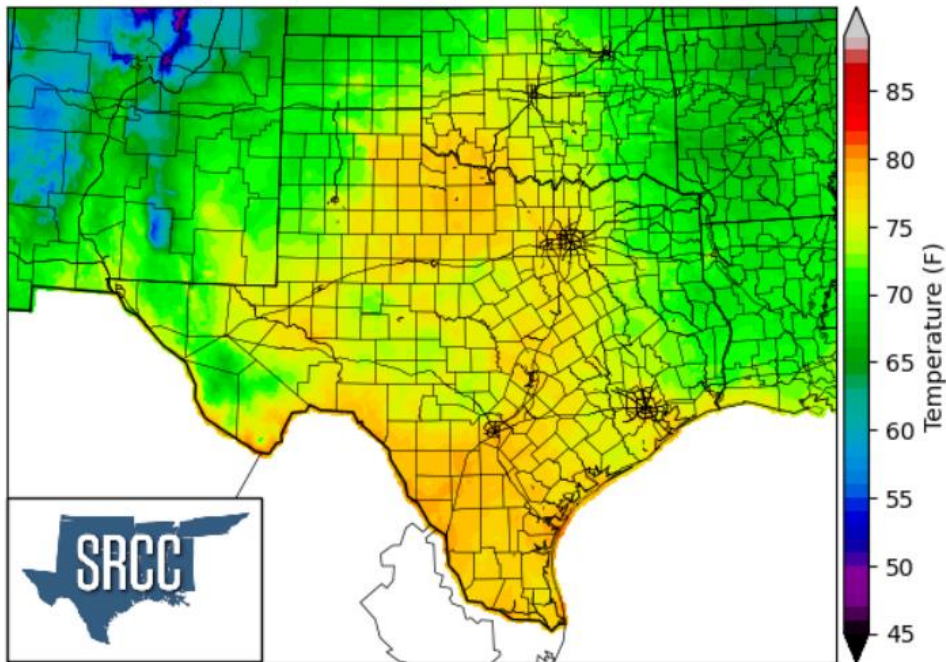
For select locations, the continuation of abnormally hot October days has led to October 2024 being among the hottest Octobers to date (data through the 13th of the month) since climate records have been kept. A few notable stations that hold this distinction are:

- Lubbock; 74.4°F (Hottest October to date)
- El Paso; 76.8°F (Hottest October to date)
- Austin; 80.6°F (3rd hottest October to date)
- DFW; 79.5°F (3rd hottest October to date)
- Midland; 74.0°F (4th hottest October to date)
- Tyler; 77.0°F (4th hottest October to date)
- College Station; 80.7°F (5th hottest October to date)
- Houston; 79.6°F (6th hottest October to date)
- Waco; 77.8°F (8th hottest October to date)

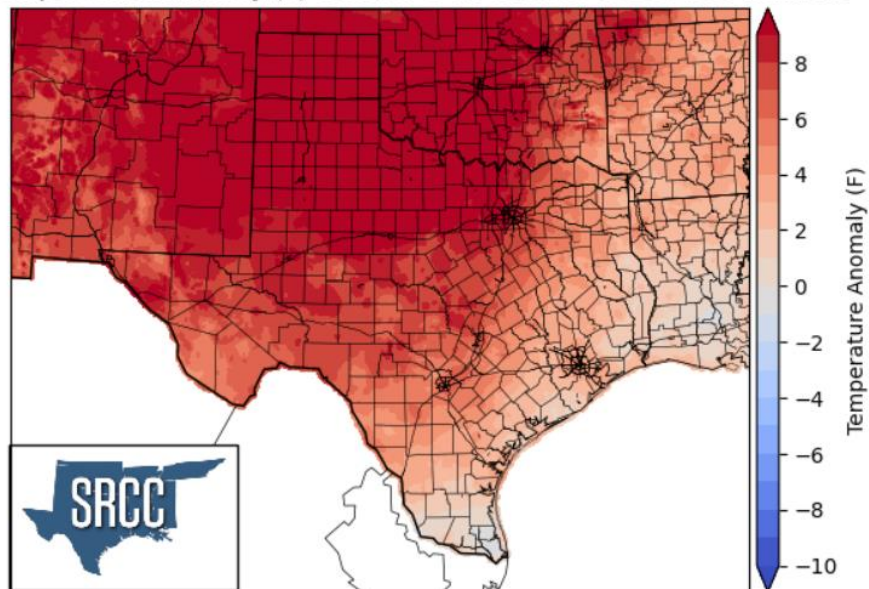
Interestingly, locations along the Rio Grande have seen October temperatures closer to normal, mainly due to more precipitation in the area that has helped hold temperatures down, particularly in the afternoon. An example of this is Brownsville, which had an average temperature of 79.3°F, its 51st hottest October to date. Some notable statistics for Texas stations during the week of October 6-12, 2024 are:

- **67.5°F** - weekly average at the Muleshoe No 1 Co-op site in Bailey County; the coolest in Texas
- **75.8°F** - the average temperature of Texas stations
 - 0.4°F below that of last week
- **83.1°F** - weekly average at the Cotulla La Salle County Airport in La Salle County; the hottest in Texas

Average Temperature (F) October 6-12 2024



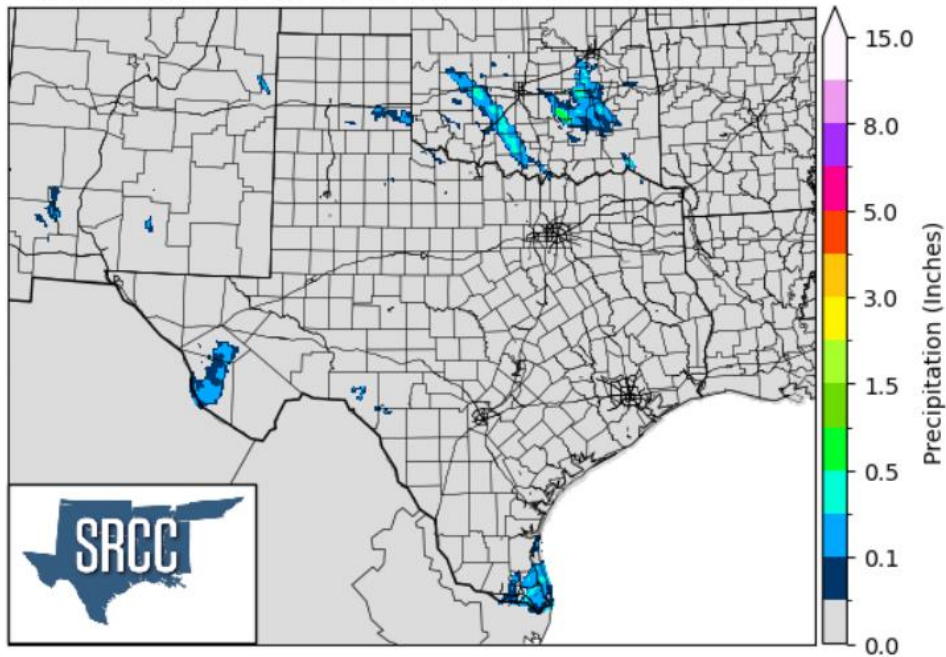
Mean Temperature Anomaly (F) October 6-12 2024 vs 1991-2020 Normals



IV. Precipitation

After last week's lackluster rainfall totals, one could only imagine that the prevalence of precipitation statewide would be up, yet the opposite happened. Precipitation was harder to come by this week, and those that saw it saw relatively meager amounts. With October being one of the rainiest months statewide, stretches of dry weather that last almost into mid-month are quite unusual.

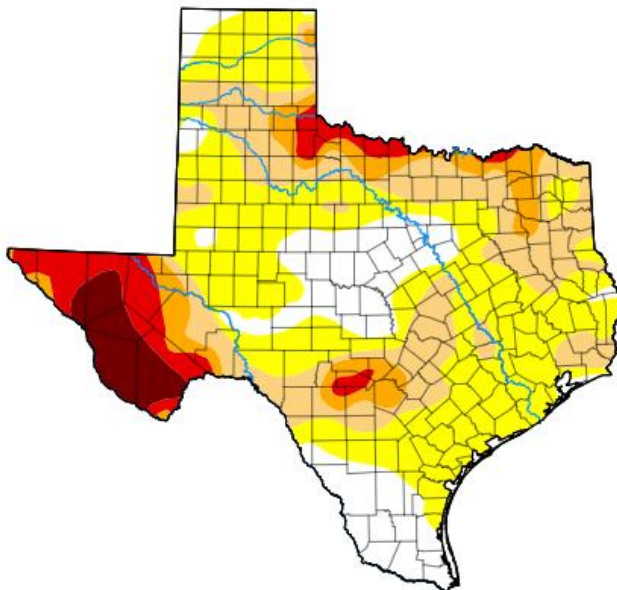
Accumulated Precipitation (Inches) October 6-12 2024



The U.S Drought Monitor saw areas of drought expand as the week of October 6-12 featured next to no precipitation for much of Texas.

Texas

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Map released: Thurs. October 10, 2024

Data valid: October 8, 2024 at 8 a.m. EDT

Intensity

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

Authors

United States and Puerto Rico Author(s):

[Richard Tinker](#), NOAA/NWS/NCEP/CPC

Pacific Islands and Virgin Islands Author(s):

[Denise Gutzmer](#), National Drought Mitigation Center

V. Statewide extremes

- The hottest recorded temperature of the week was **101°F** seen at 4 sites in Texas on October 12, 2024
- The coldest recorded temperature of the week was **43°F** seen at 3 Muleshoe sites in Bailey County on October 6 and 12, 2024.
- The most precipitation recorded in the week of October 6-12, 2024, was **2.04"** at the Lozano 1.4 S CoCoRaHS site in Cameron County
- The rainiest day at any site across the state of Texas was October 6, 2024, when **1.82"** of rain fell at the Harlingen 1.1 NE CoCoRaHS site in Cameron County