

Item 5: 2016 Fall / Winter Weather Outlook Chris Coleman ERCOT Sr. Meteorologist

Board of Directors Meeting

ERCOT Public October 11, 2016

La Niña?



Mid-Sep 2016 Plume of Model ENSO Predictions

Weak La Niña events suggest other factors could be bigger drivers of the weather.



La Niña struggling to get established

Jun-Aug ENSO: -0.3°C Late-Sept ENSO: -0.4°C



Fall Temperature Outlook

- Entire ERCOT region is forecast normal to above-normal temperatures
- Warmer potential than currently forecast
- While not forecast, South-Southwest TX has the highest potential for belownormal temperature anomalies
- Continuing recent trend with daytime max temperatures closer to the normal range and morning lows running above-normal
- November shows more abovenormal potential than October



Fall Precipitation Outlook

- Unlikely to see a drier-thannormal season for the ERCOT system, on average
- Midland San Angelo Laredo and points south of that line has the greatest potential for above-normal rainfall
- 2015 & 2016 remains on-track to be the two wettest consecutive years in TX weather history





Temperature Ranking of Past Winters (Texas)

Ranking (Warmest, Highest)



Winter 2016-17 Temperature Outlook

- At this time, not seeing a strong cold signal
- December has the warmest anomaly potential
- January and February could both feature some periods of below-normal temperatures
- The overnight/morning lows show a slightly colder (relative to normal) look than the mean temperature
- Unlikely to be as warm as last winter (114th coldest) ... but not impossible
- Very unlikely to be as cold as the winter of 2013-14 (30th coldest)



Seasonal versus Extremes

February 2, 2011:

Dallas: 13° (20MPH wind) Houston: 21°(16MPH wind) San Antonio: 19° (25MPH wind) Austin: 18° (26MPH wind) Brownsville: 32° (26MPH wind) Abilene: 7° (16MPH wind) Midland: 6° (16MPH wind)

ERCOT system has not been colder since that date.

Winter of 2010-11: 69th coldest in TX weather history

December 23, 1989:

Dallas: -1° (8MPH wind) Houston: 7°(9MPH wind) San Antonio: 6° (7MPH wind) Austin: 4° (9MPH wind) Brownsville: 17° (15MPH wind) Abilene: -3° (6MPH wind) Midland: 0° (4MPH wind)

Winter of 1989-90: 72nd coldest in TX weather history



Winter 2016-17 Precipitation Outlook

- Drier than normal especially over West Texas
- Potentially drier than last winter
- Forecasting the 5th consecutive winter of either normal or drier-than-normal precipitation
- Temperature and precipitation outlooks would not support a winter with multiple major snow or ice events





Drought Update



Summary

- Autumn forecast is for normal to above-normal temperatures and precipitation
- Preliminary winter forecast is mild and dry
- This is a preliminary forecast. It will be finalized by November 1 and posted to ERCOT.com
- There remains a scenario that would result in a significantly colder winter that cannot be dismissed at this point
- Unlikely to be as warm as last winter (114th coldest)
- Unlikely to be as cold as the winter of 2013-14 (30th coldest)
- Better chance to be similar to last winter than the "polar vortex" winter of 2013-14

