



Item 5.1: 2018 Summer Weather Outlook

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Board of Directors Meeting

ERCOT Public

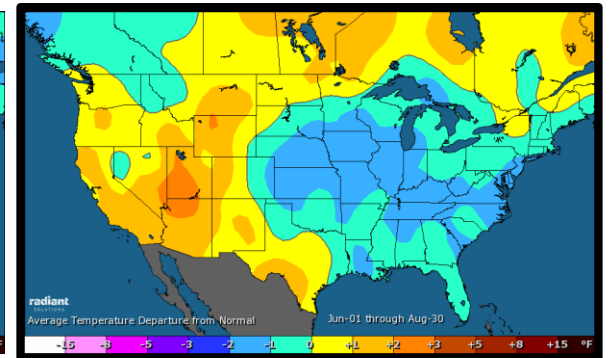
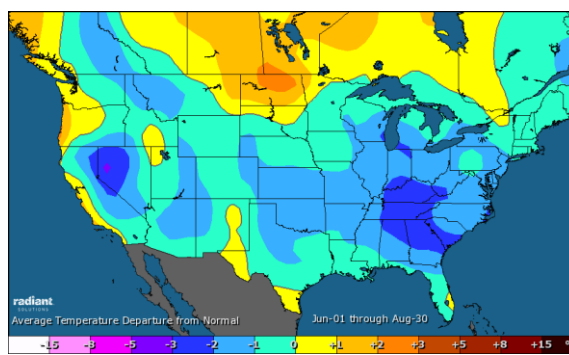
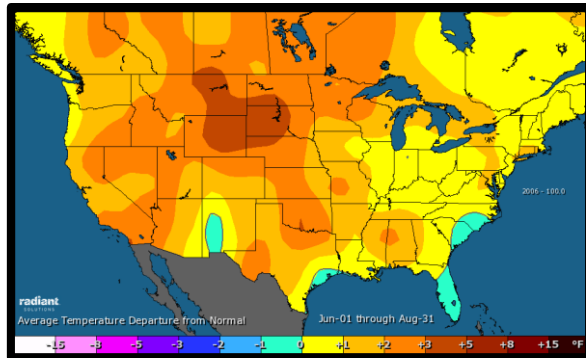
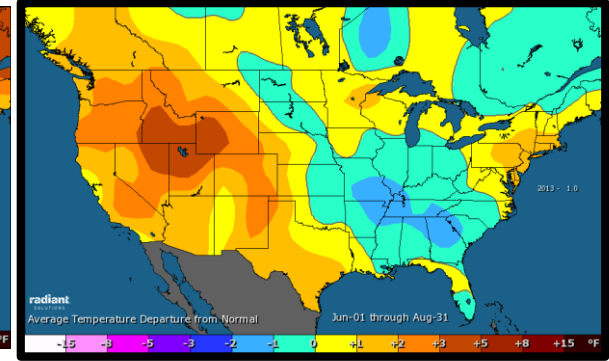
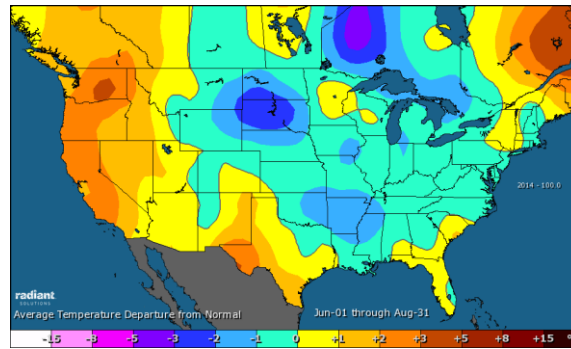
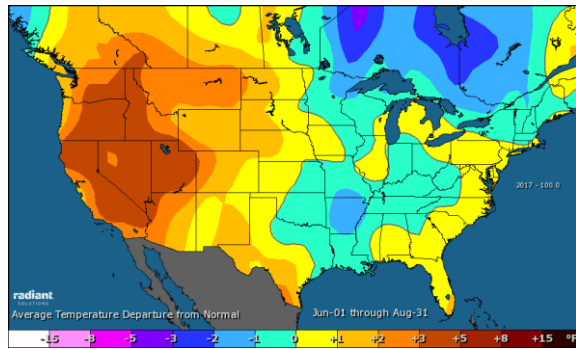
June 12, 2018

Temperature Ranking of Recent Summers

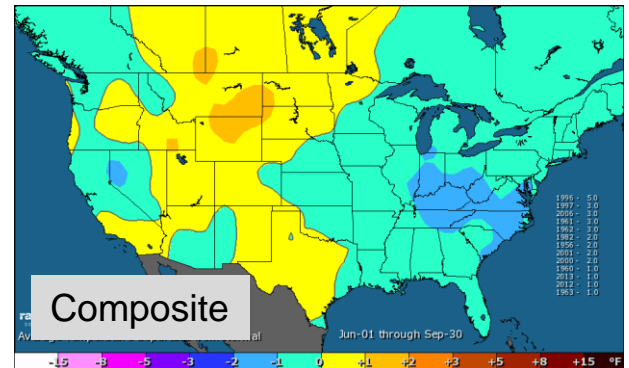
Years	Ranking
2017	50 th hottest (of 123 historical)
2016	22 nd
2015	17 th
2014	50 th
2013	21 st
2012	12 th
2011	1 st
2010	10 th
2009	28 th
2008	76 th
2007	95 th
2006	42 nd

2006 & 2013 are the recent years I'm keeping an eye on for comparison

Summers with similarities to 2018

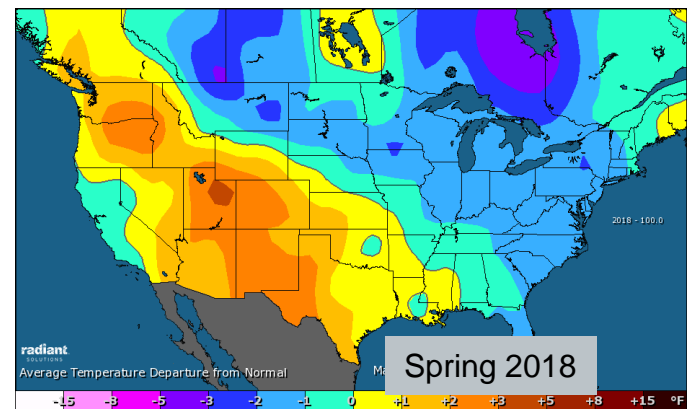
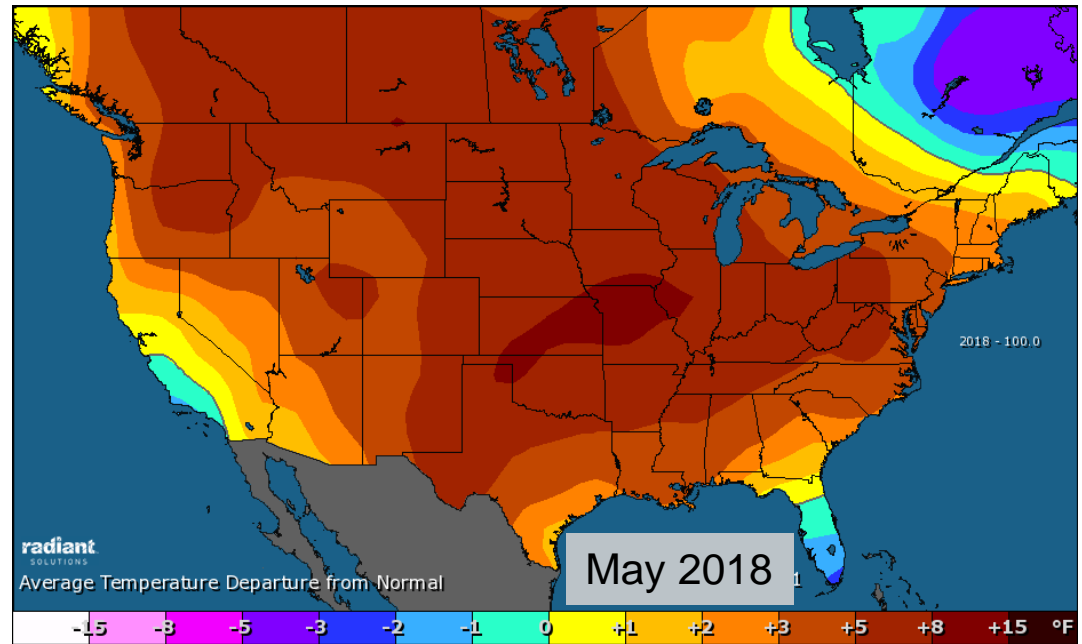


2017, 2014, 2013
2006, 1997, 1996



Does a Hot May Foretell a Hot Summer?

- May 2018 will finish as one of the five hottest Mays in Texas weather history
- May 1996 is the hottest May on record for ERCOT and the state of Texas
- May 1996 was followed by the 76th hottest summer (Jun-Sep) on record
- Of the 20 hottest Mays (dating back to 1895), only five were followed by one of the 20 hottest summers
- This doesn't mean an extreme, above-normal May can't be followed by a hot, above-normal summer – it means there's no strong correlation



Summer 2018 Temperature Outlook

- There are similarities to recent summers from this decade (2013, especially)
- Best chance for above-normal summer heat will be across South and West Texas
- Austin and San Antonio have greater potential for an above-normal summer than the other large cities
- Of the large population cities, Houston has lowest chance of an abnormally hot summer

2018 100° days projections:

Dallas: 15-20 (10 in 2017)

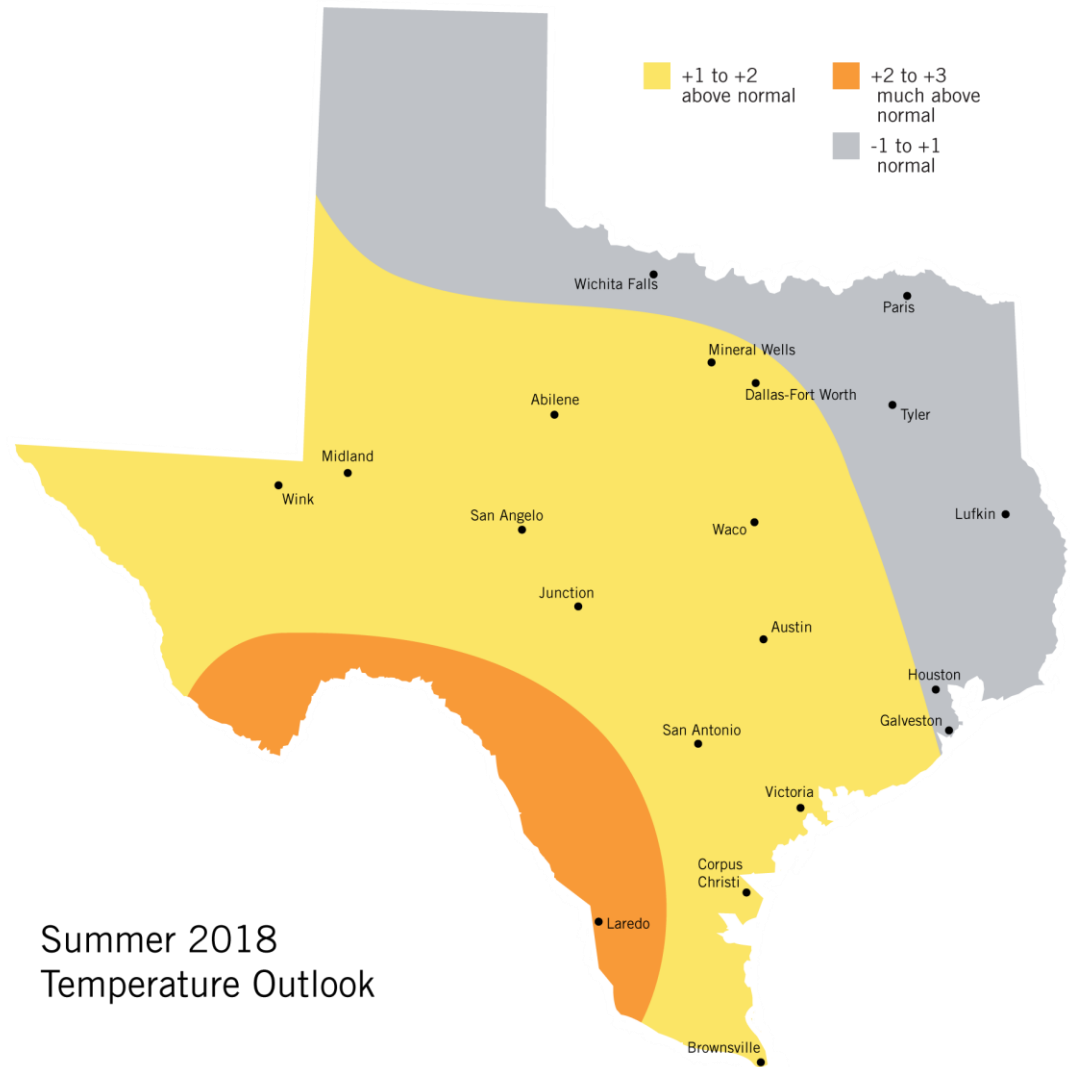
Houston: 2-6 (1 in 2017)

Austin (ABIA): 20-35 (23 in 2017)

San Antonio: 20-35 (15 in 2017)

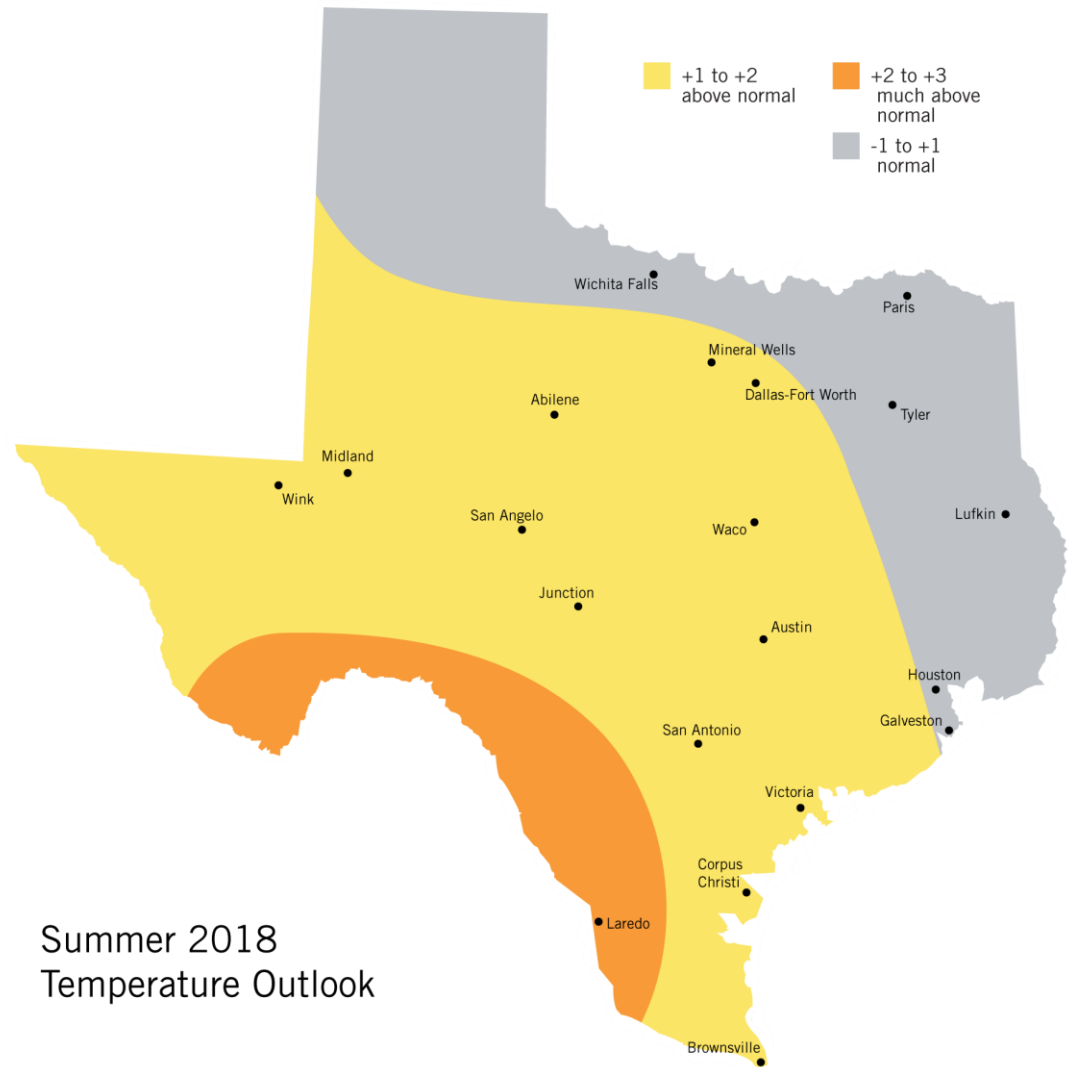
Midland: 35-50 (24 in 2017)

McAllen: 50-70 (86 in 2017)



Summer 2018 Temperature Outlook

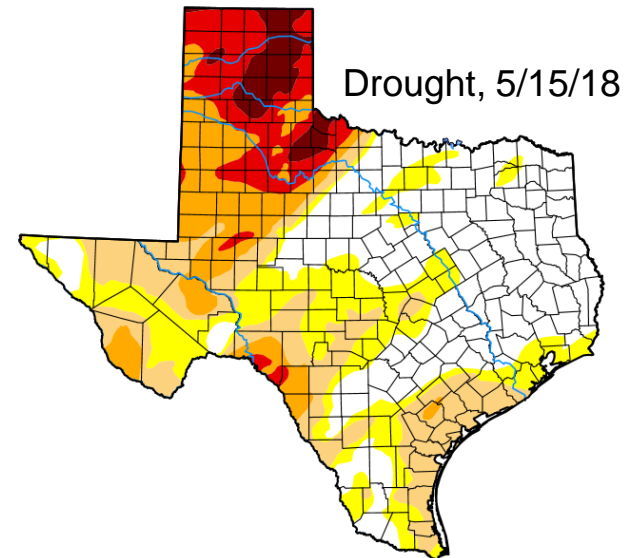
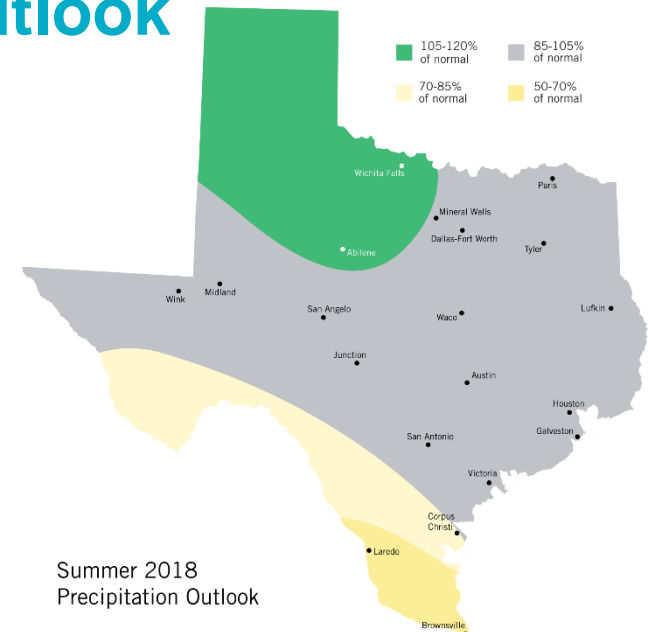
- No repeat of summer 2011 (#1 hottest on record). Spring 2018 has not been as hot and dry as spring 2011 (which set up 2011)
- 2013 was the 21st hottest (1895-current). 2014 and 2017 were the 50th hottest. This is the range I'm expecting for this summer
- There are some cooler solutions but a risky forecast with drought the most extreme since 2014



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Summer 2018 Rainfall & Drought Outlook

- Panhandle and nearby regions most likely to see a wetter-than-normal summer
- South and Southwest Texas most likely to see a drier-than-normal summer
- While the gray area represents “close-to-normal,” there is a lean toward below-normal for most of that area on the map (85-105%)
- Opportunities for improvement in the Panhandle and portions of West Texas
- Conditions could worsen in parts of Central, South and Southwest Texas
- Repeat of 2011 is very unlikely – but some regional concerns



Hurricanes

Normal: 12/6/3

2017 Season: 17/10/6

2018 Forecast: 11-15/5-9/3-6

**Recent developments suggest
2018 season toward the lower
end of the forecast range**



No longer La Niña but not
expecting an
El Niño to develop
in time to influence
2018 hurricane season

NOAA/NESDIS 50 KM GLOBAL ANALYSIS: SST Anomaly (degrees C), 5/21/2018
(white regions indicate sea-ice)

