

# NWS Houston, Texas March 2019 Regional Climate Summary

Produced by Nikki Hathaway

## *. . . Very Dry March. . .*

*In summary, the month of March was very dry, and filled with ample hours of sunshine. As a result, monthly rainfall totals were well below normal by about 1.5-3 inches area wide. This allowed abnormally dry and moderate drought conditions to also expand across portions of SE TX. Average monthly temperatures were only slightly below normal. Overall, a total of 3 daily records were set across the primary climate sites.*

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# Precipitation

*The first week of March started off fairly dry with high pressure overhead. A cold front eventually arrived by the second week of the month, and stalled out across the region. This helped to provide some much needed precipitation for a few days, totaling about a half to an inch of rainfall area wide by the end of the second week. Another two cold fronts helped to push the stalled frontal boundary off the coast by the end of the second and into the third week of March. High pressure took control yet again behind these cold fronts and held firm through the beginning of the last week of March. Some sites saw little precipitation towards the end of the month with two final frontal passages Overall, March was well below normal in terms of monthly precipitation with deficits from a 1.5-3 inches area wide.*

Site	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	1.53	-1.63	3	0.58	Mar. 31st
Houston Hobby (HOU)	0.54	-2.66	1	0.32	Mar. 13th
City of Houston (IAH)	0.50	-2.91	1	0.25	Mar. 13th
College Station (CLL)	1.25	-1.92	2	0.56	Mar. 14th

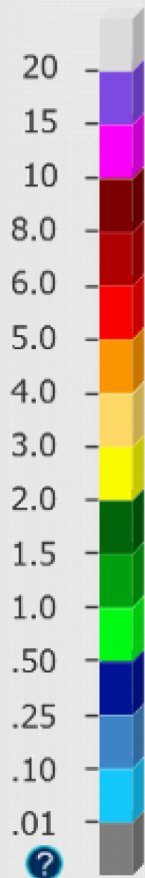
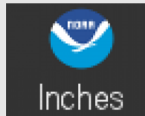
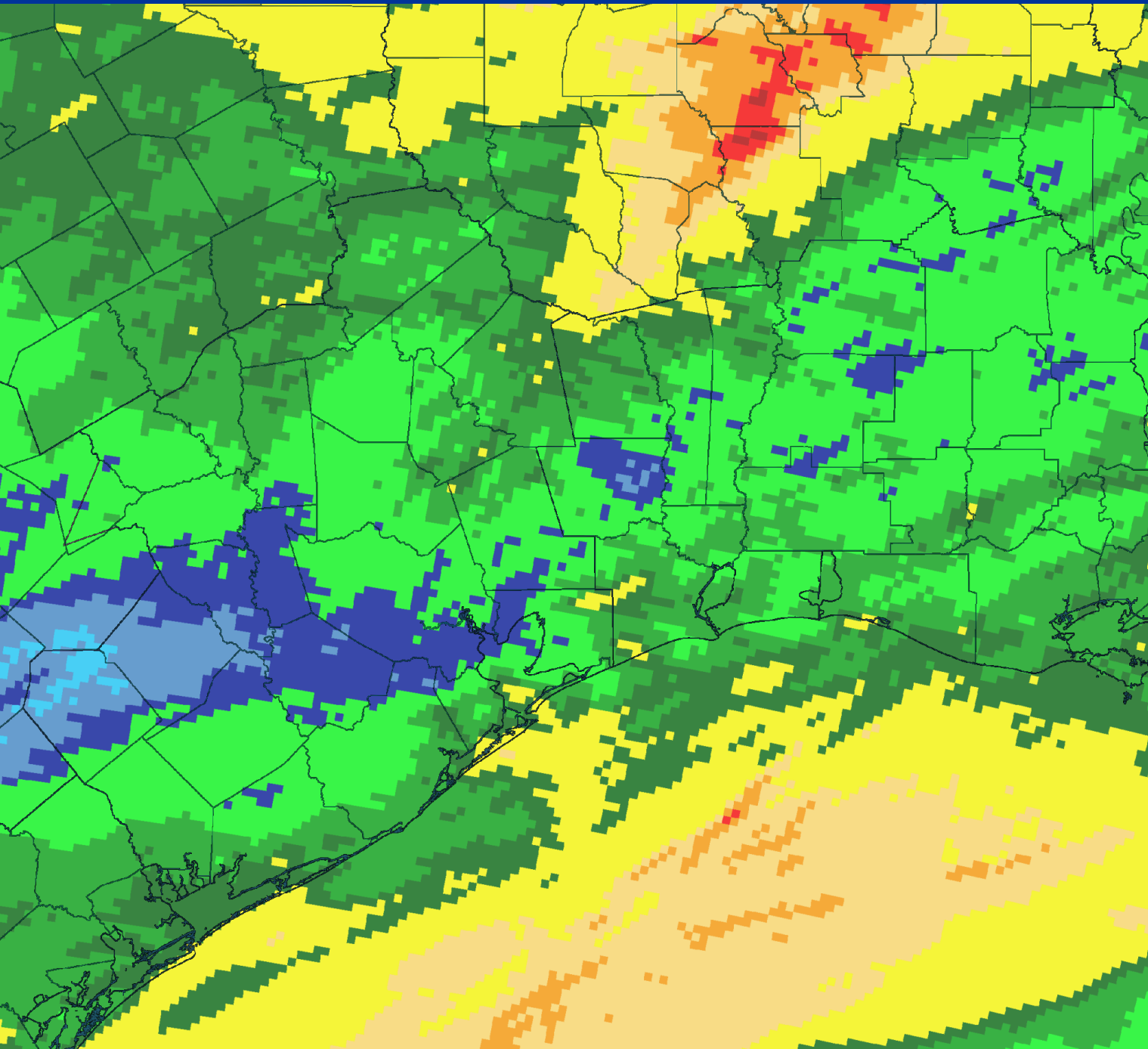


# Precipitation (Continued)

## March 01, 2019 Monthly Observed Precipitation

Created on: April 19, 2019 - 03:40 UTC

Valid on: April 01, 2019 12:00 UTC

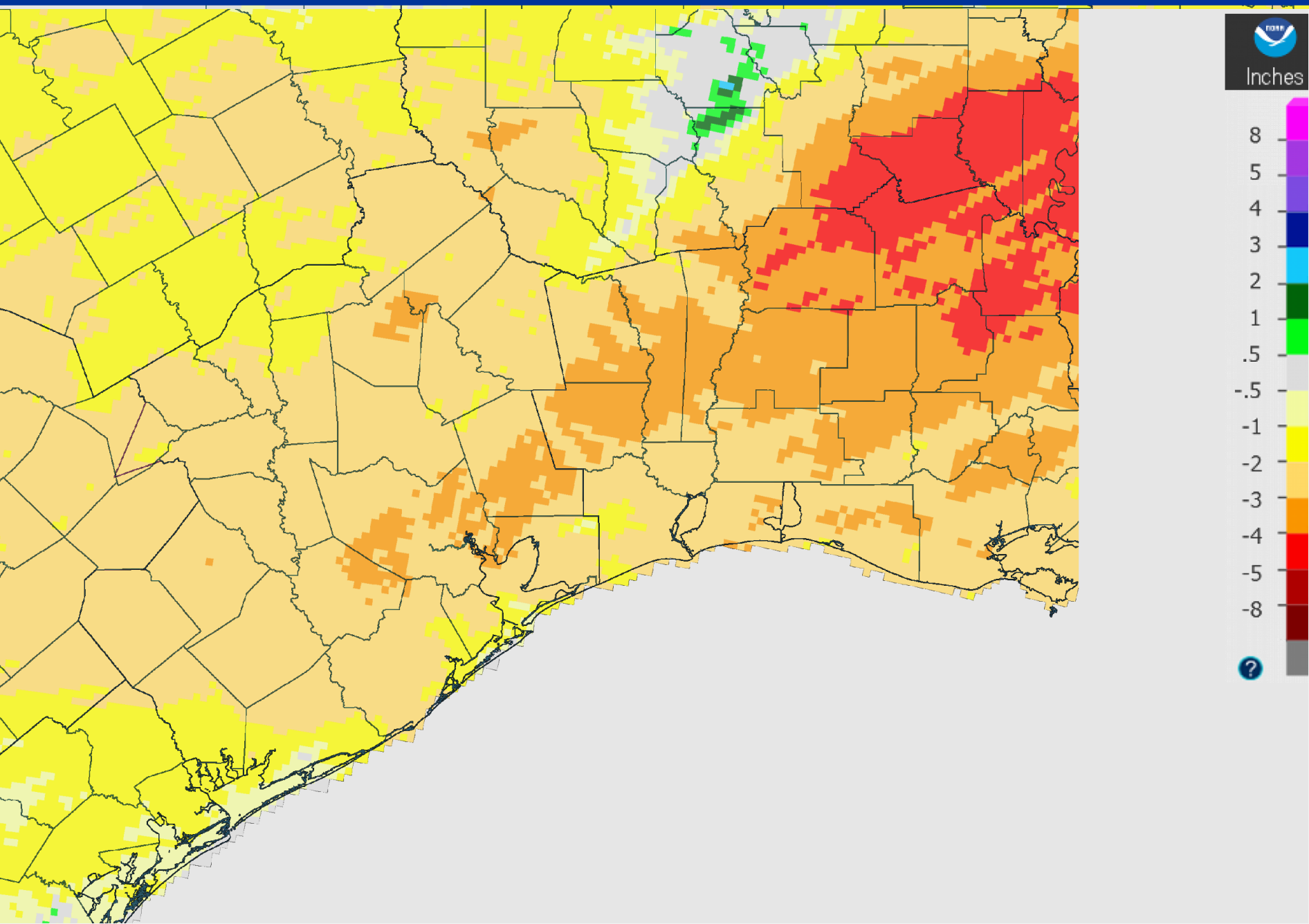


# Precipitation (Continued)

## March 01, 2019 Monthly Departure Precipitation

Created on: April 19, 2019 - 03:40 UTC

Valid on: April 01, 2019 12:00 UTC



# Temperatures

*Multiple frontal passages throughout the month of March, followed by clear skies as high pressure built in across SE TX, allowed overall average monthly temperatures to fall slightly below normal. The real outlier was the first week of the month, where average temperatures ranged from 10 to 20 degrees below normal after the passage of a few cold fronts. Throughout the rest of the month, there were plenty of near normal temperature days mixed in with a few below normal temperature days.*

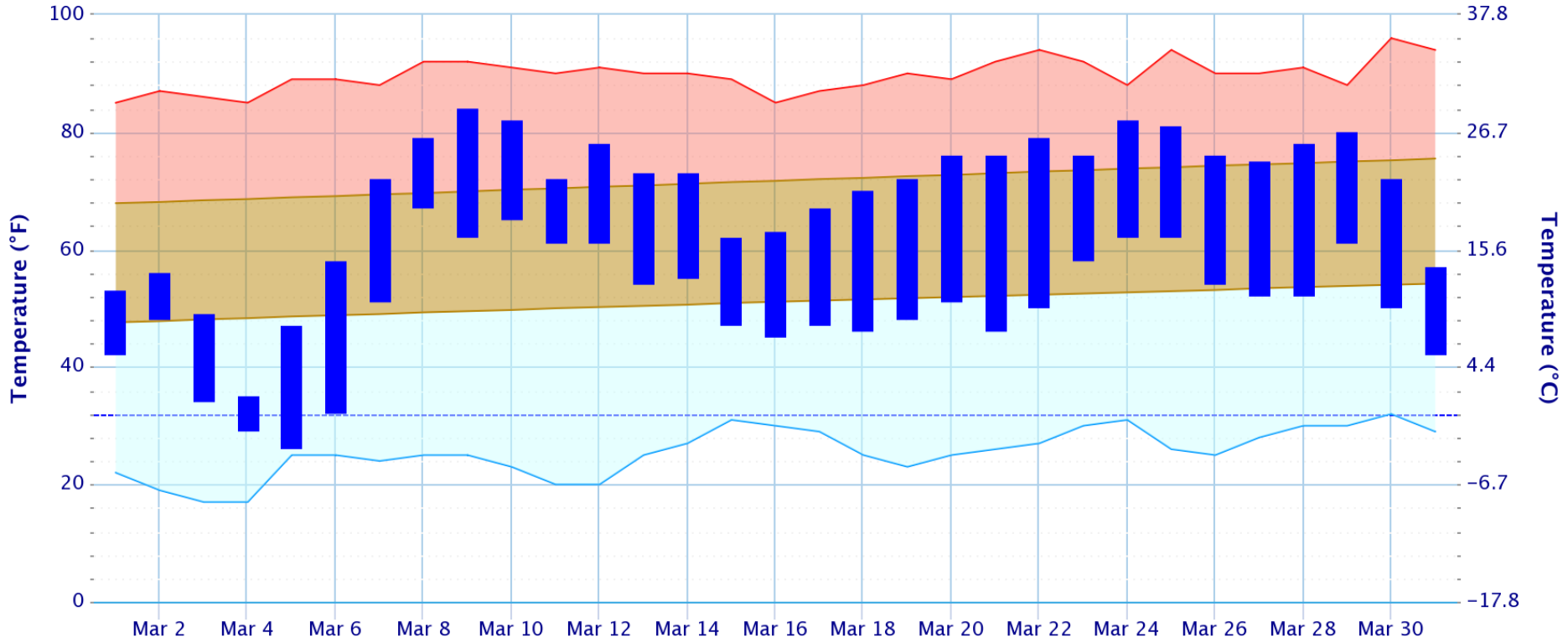
Site	Average Temp (F)	Average High Temp (F)	Average Low Temp (F)	Normal Average Temp (F)	Departure From Normal (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	62.7	68.6	56.9	63.4	-0.7	78 on Mar. 11th	35 on Mar. 5th
Houston Hobby (HOU)	63.2	71.4	55.0	63.3	-0.1	85 on Mar. 25th	31 on Mar. 5th
City of Houston (IAH)	62.0	72.1	51.9	62.7	-0.7	87 on Mar. 25th	30 on Mar. 5th
College Station (CLL)	59.9	69.5	50.3	61.4	-1.5	84 on Mar. 9th	26 on Mar. 5th



# Monthly Temperature Charts

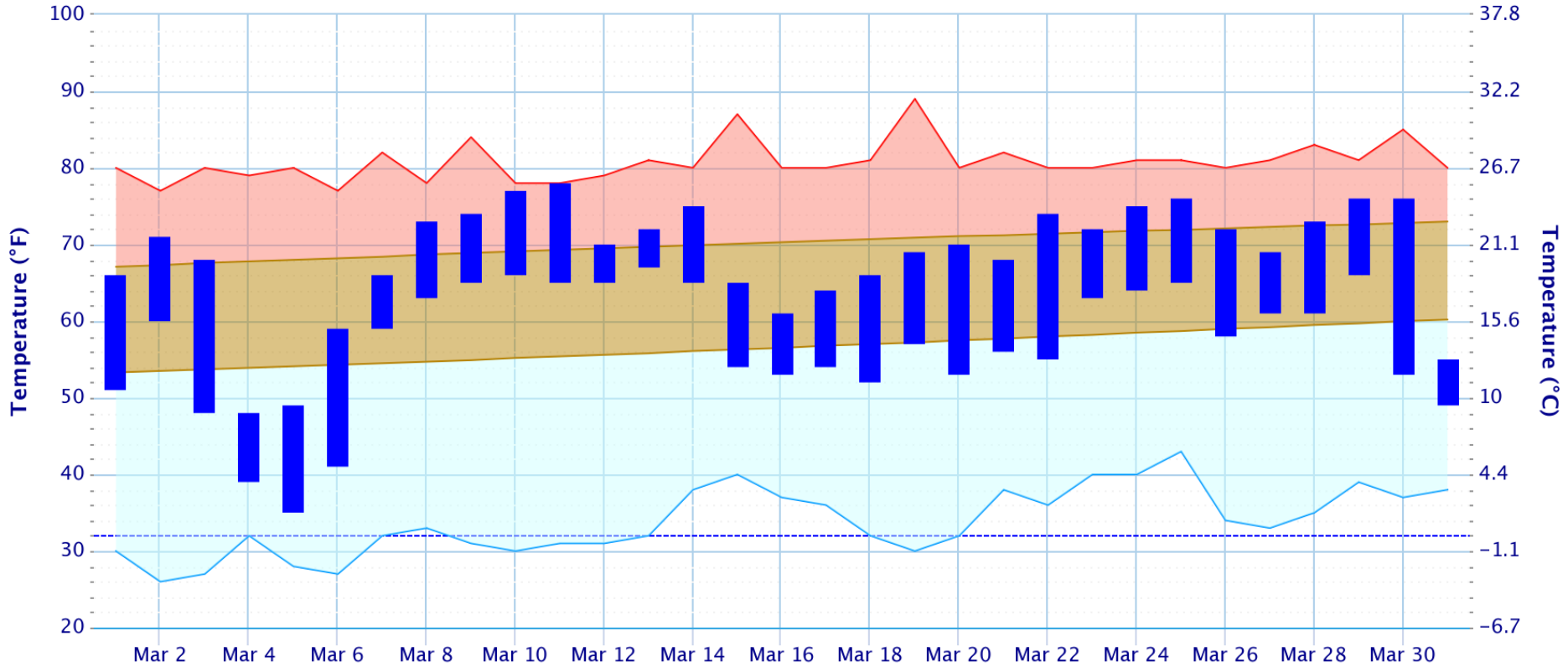
## Daily Temperature Data – College Station Area, TX (ThreadEx)

Period of Record – Max temperature: 1888-10-01 to 2019-04-18; Min temperature: 1882-05-15 to 2019-04-18. Normals period: 1981-2010. Click and drag to zoom chart.



## Daily Temperature Data – Galveston Area, TX (ThreadEx)

Period of Record – 1874-05-10 to 2019-04-18. Normals period: 1981-2010. Click and drag to zoom chart.



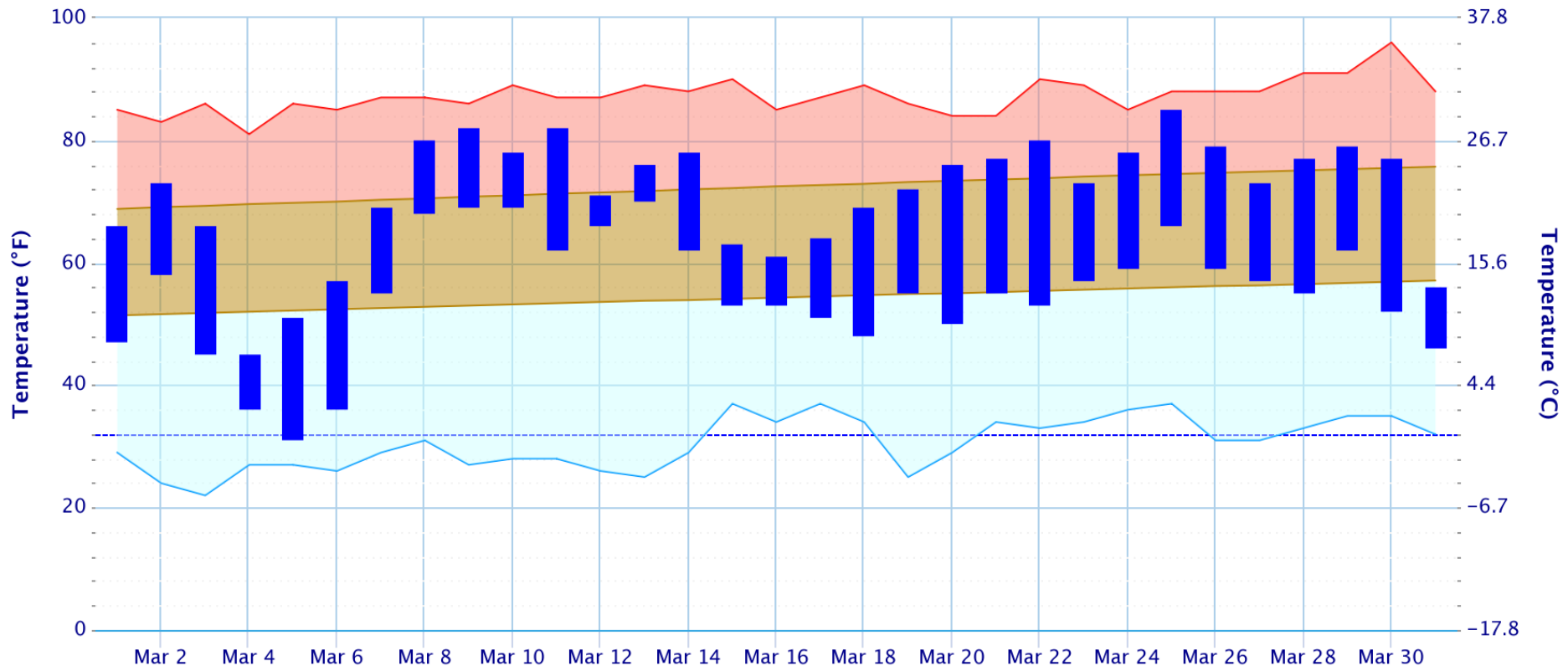
● Observed temperature range (2019) ● Normal temperature range — Record Max — Record Min



# Monthly Temperature Charts (continued)

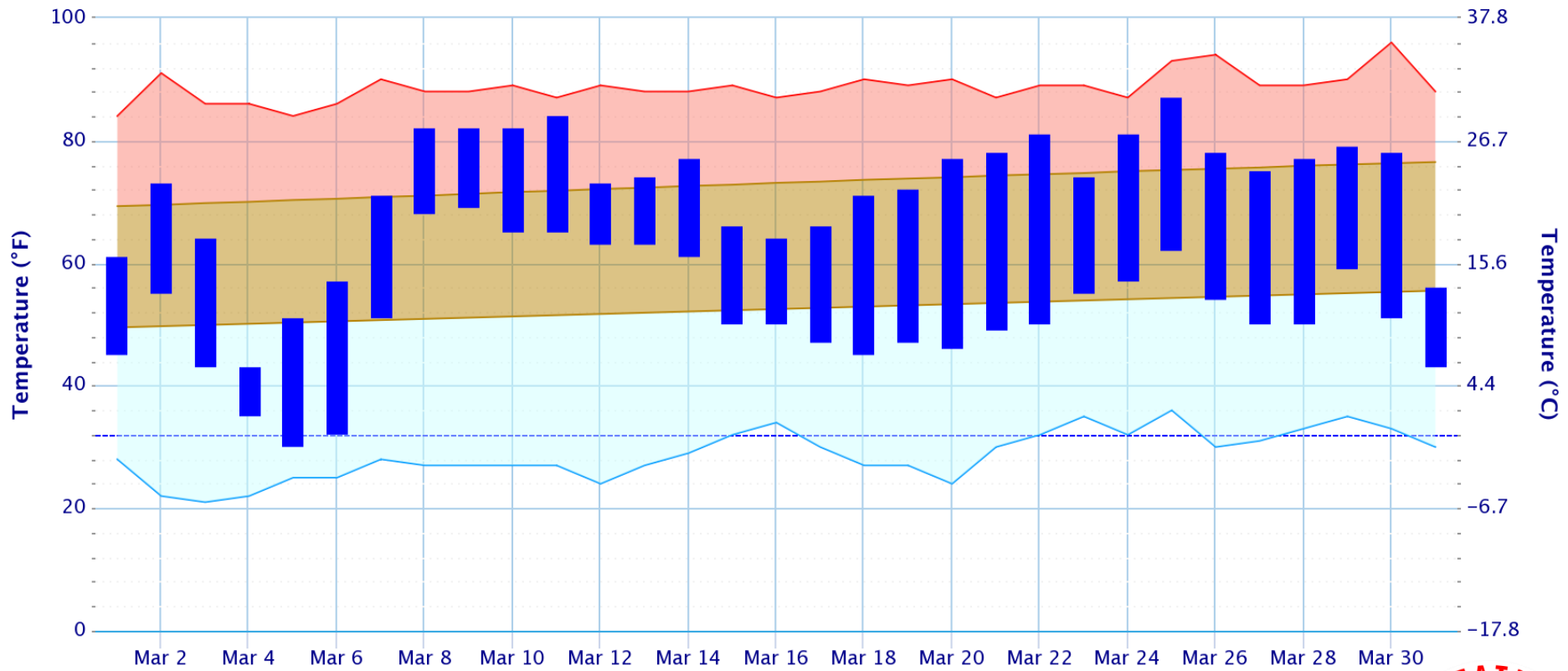
## Daily Temperature Data – HOUSTON WILLIAM P HOBBY AP, TX

Period of Record – 1930-08-01 to 2019-04-18. Normals period: 1981-2010. Click and drag to zoom chart.



## Daily Temperature Data – Houston Area, TX (ThreadEx)

Period of Record – 1889-05-01 to 2019-04-18. Normals period: 1981-2010. Click and drag to zoom chart.



● Observed temperature range (2019) ● Normal temperature range — Record Max — Record Min



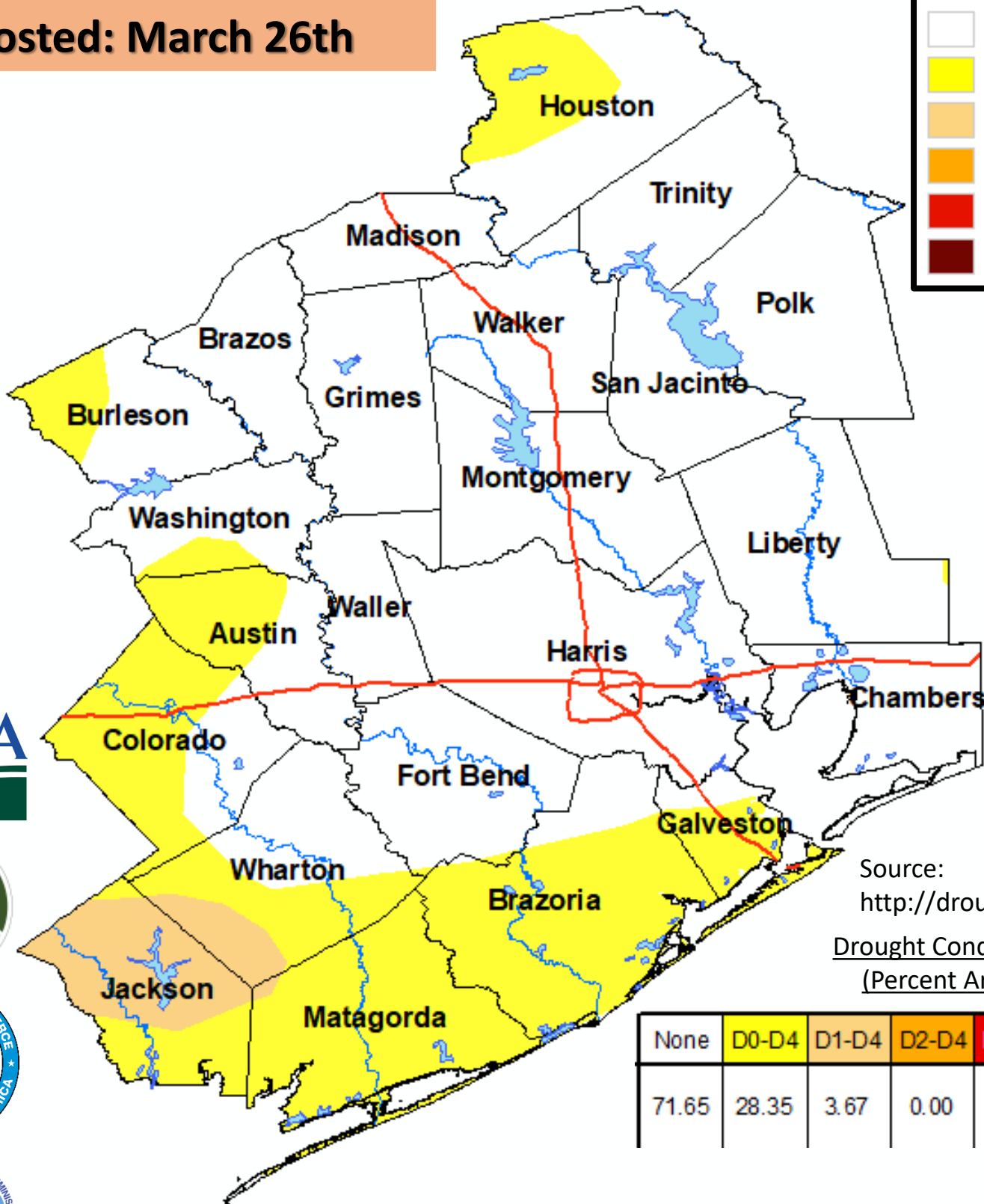


# Drought Conditions

The month of March ended with scattered abnormally dry conditions and a bullseye of moderate drought in portions of Jackson, Wharton, and Matagorda counties.

## Most Recent Drought Map

Posted: March 26th



**Intensity:**

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)

Source:  
<http://droughtmonitor.unl.edu>

Drought Conditions  
 (Percent Area)

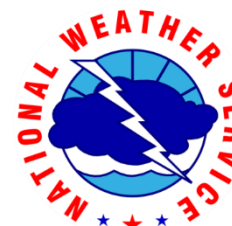
None	D0-D4	D1-D4	D2-D4	D3-D4	D4
71.65	28.35	3.67	0.00	0.00	0.00



# March Daily Record Reports

*A total of three daily records were set across the four primary climate sites.*

Site	Date	Record Type	New Record	Previous Record
City of College Station	Mar. 4th	Low Max Temperature	35°	40° in 2014
City of Galveston	Mar. 11th	High Max Temperature	78°	78° in 2018
Houston Hobby	Mar. 13th	High Min Temperature	70°	70° in 1973



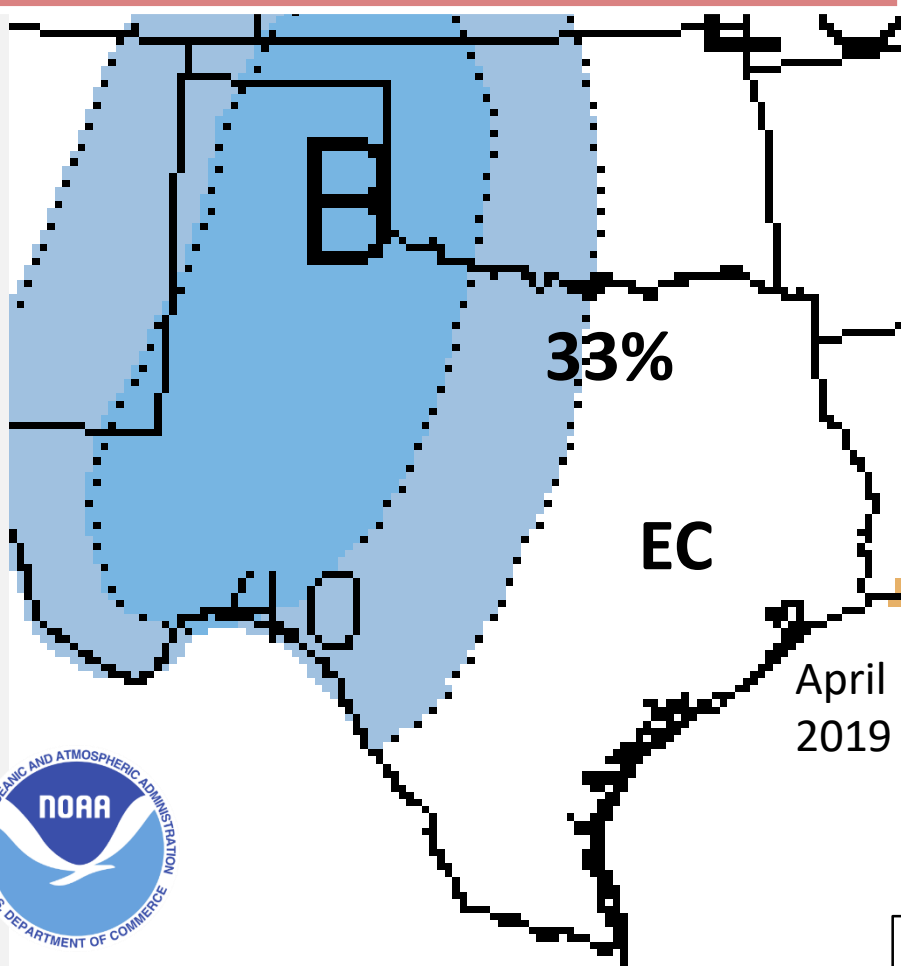
# April Outlook

For April, the latest outlook from the Climate Prediction Center (CPC) calls for a 33.3% chance of below normal temperatures, a 33.3% chance of above normal temperatures and a 33.3% chance of normal temperatures across Southeast Texas. This is otherwise known as an "equal chance" (EC) of above normal, normal, and below normal temperatures. The precipitation outlook also calls for a 43% chance of above normal precipitation, a 33% chance of near normal precipitation and a 24% chance of below normal precipitation.

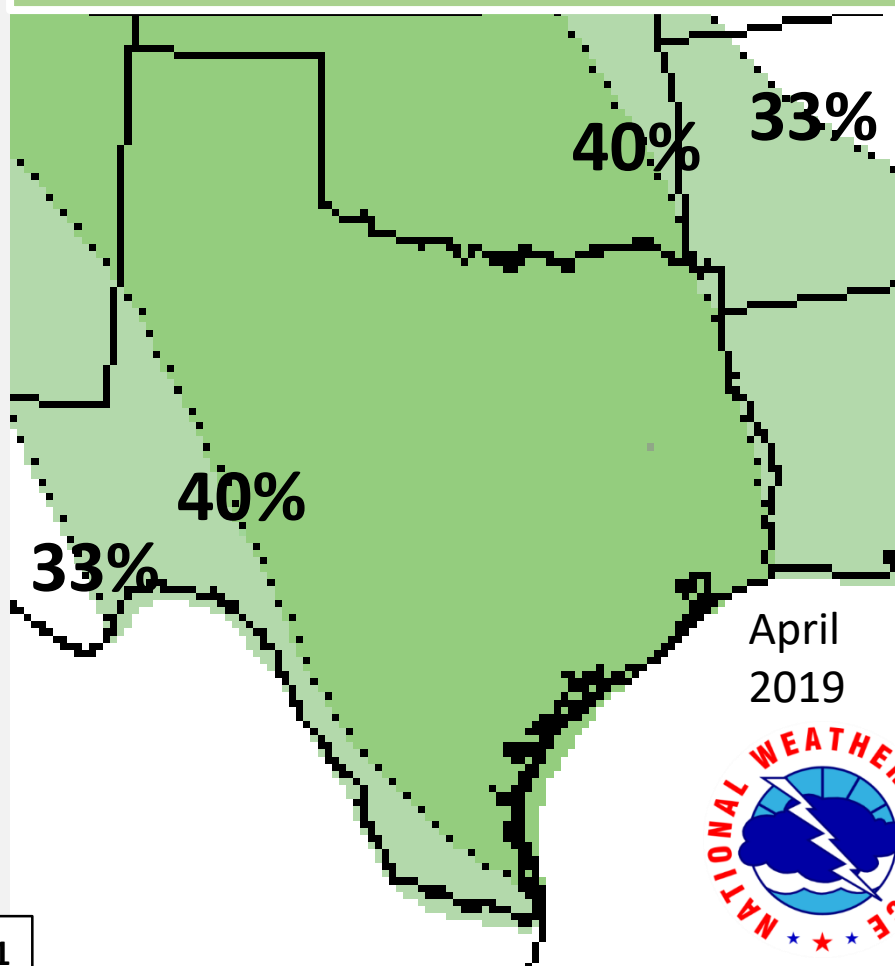
Site	Average Temp(°F)	Normal High (°F)	Normal Low (°F)
Galveston	70.1	75.9	64.4
Houston Hobby	69.8	78.8	60.9
City of Houston	69.5	79.6	59.4
College Station	68.5	78.9	58.1

Site	Normal Monthly Precipitation (in.)
Galveston (GLS)	3.05
Houston Hobby (HOU)	3.25
City of Houston (IAH)	3.31
College Station (CLL)	2.66

## Temperature Outlook



## Precipitation Outlook



# Climate Primary Site History

## Galveston (GLS)

*Records for Galveston are from observations at the following locations: 67-69 Strand (April 1, 1871 - Aug 31, 1874); 23rd and the Strand (Sep 1, 1874 - July 29, 1878), 1.75 miles WSW of the previous location; the Custom House at Bath Street and the Strand (July 30, 1878 - May 8, 1882); Colorado and Santa Fe Railroad Building at 25th and the Strand (May 9, 1882 - March 14, 1883); back to the Custom House which later became the Cotton Exchange Building (March 15, 1883 - June 24, 1898), about a 1/3 of a mile E of the previous Custom House location; The Levy Building at 2223 Market Street (June 25, 1898 - Nov 26, 1900); the Trust Building at Tremont and Post Office Streets (Nov 27, 1900 - June 24, 1946), one-quarter mile south of the Levy Building; the U.S. Post Office Building at 601 Rosenberg (June 25, 1946 - 1994); Scholes Field (January 1995 to present).*

## Houston Hobby (HOU)

*Records are based upon observations beginning in August 1931.*

## City of Houston (IAH)

*Records for the City of Houston are from observations at the following locations: Cotton Station from July 1881 through September 1909, Stewart Building at Preston and Fannin from September 1909 through February 1926, Shell Building at Texas and Fannin from March 1926 through August 1938, Federal Building at Franklin and Fannin from August 1938 through May 1969, Intercontinental Airport from June 1969 to the present .*

## College Station (CLL)

*Records from 1893 through July 1951 are based on observations taken at the Texas Agriculture Experiment COOP Station main farm located 6 miles southwest of College Station. Records from August 1951 through the present are based on observations taken at Easterwood Field. Normal temperatures are calculated from 1981 to 2000 period.*

