

NWS Houston, Texas October 2020 Regional Climate Summary

Produced by Jimmy Fowler

...Abnormally Dry Month with Some Tastes of Cooler Weather...

Unlike September, October was an abnormally dry month across Southeast Texas. This led to drought conditions forming across portions of the area, and unfortunately drier than normal conditions are expected to continue through November. Temperatures skewed warmer than normal across the area. A couple of potent cold front moved through the region towards the end of the month bringing sharp decreases in temperatures. However, these cooler temperature typically only lasted for a couple of days or would stall halfway through the region.

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By the Numbers: October 2020



Location (records started)	Average Temp	Ranking	Total Rainfall	Ranking
City of Houston, TX (1888)	71.7°F	58 th Warmest	0.67"	16 th Driest
Houston Hobby, TX (1930)	74.3°F	11 th Warmest	1.13"	14 th Driest
City of Galveston, TX (1871)	75.3°F	29 th Warmest	2.50"	69 th Driest
City of College Station, TX (1882)	70.6°F	62 nd Warmest	0.45"	17 th Driest
Conroe, TX (1997)	69.6°F	9 th Warmest	0.01"	3 rd Driest
Huntsville, TX (1997)	70.0°F	12 th Warmest	0.22"	Driest Recorded
Sugar Land, TX (2000)	72.5°F	9 th Warmest	0.87"	3 rd Driest
Palacios, TX (1943)	72.2°F	45 th Warmest	0.35"	7 th Driest
Clover Field (Pearland), TX (1997)	73.4°F	7 th Warmest	0.64"	3 rd Driest
David Wayne Hooks (Tomball), TX (1998)	70.5°F	13 th Warmest	2.82"	9 th Driest
Angleton, TX (1998)	71.9°F	12 th Warmest	0.49"	3 rd Driest
League City, TX (1990)	72.6°F	6 th Warmest	1.42"	5 th Driest



Precipitation

Location	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	2.50	-3.02	2	2.10	9 th
Houston Hobby (HOU)	1.13	-4.86	2	0.43	15 th
City of Houston (IAH)	0.67	-5.03	2	0.53	16 th
College Station (CLL)	0.45	-4.46	1	0.17	28 th

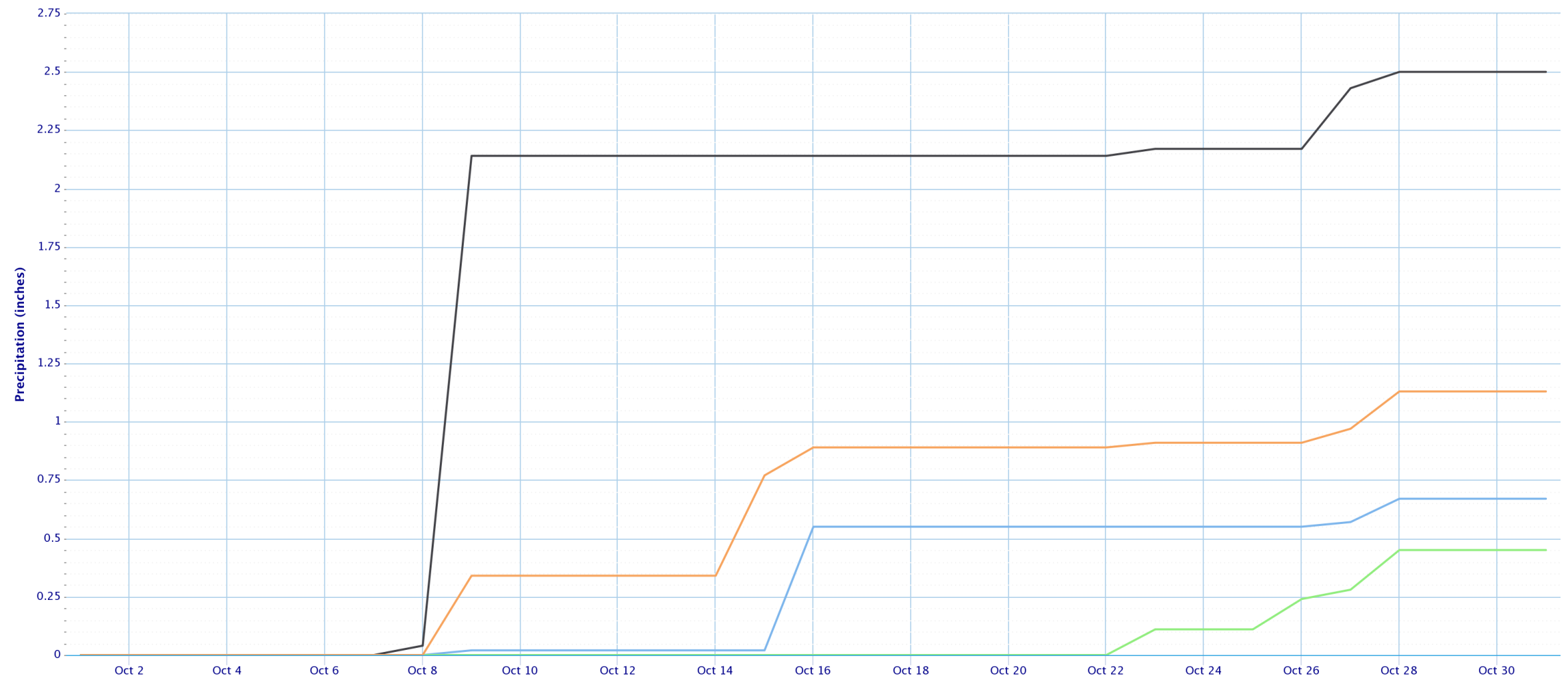
Almost the entire area saw much drier than normal conditions with the primary climate sites experiencing monthly totals three to five inches below normal.



Precipitation Accumulation Graph

Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



City of Houston

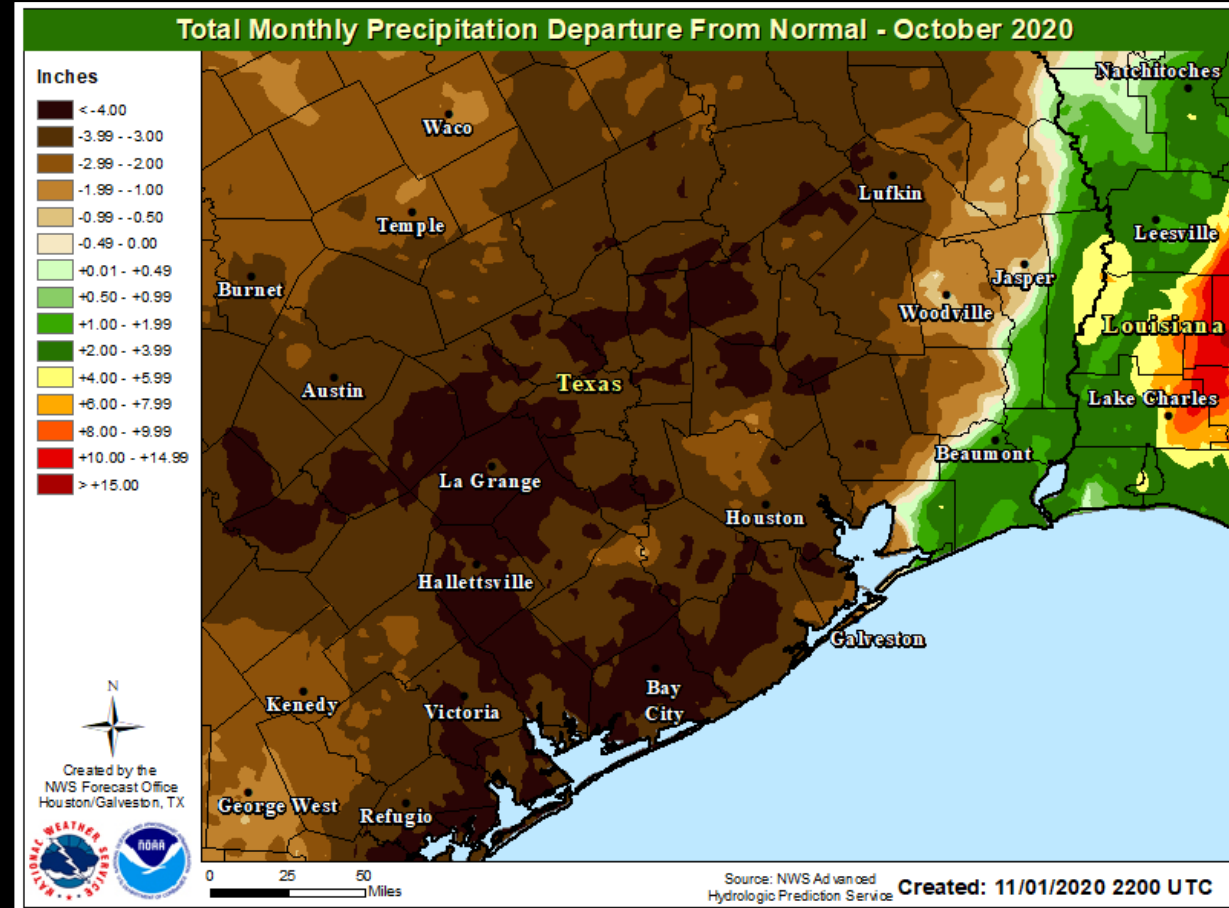
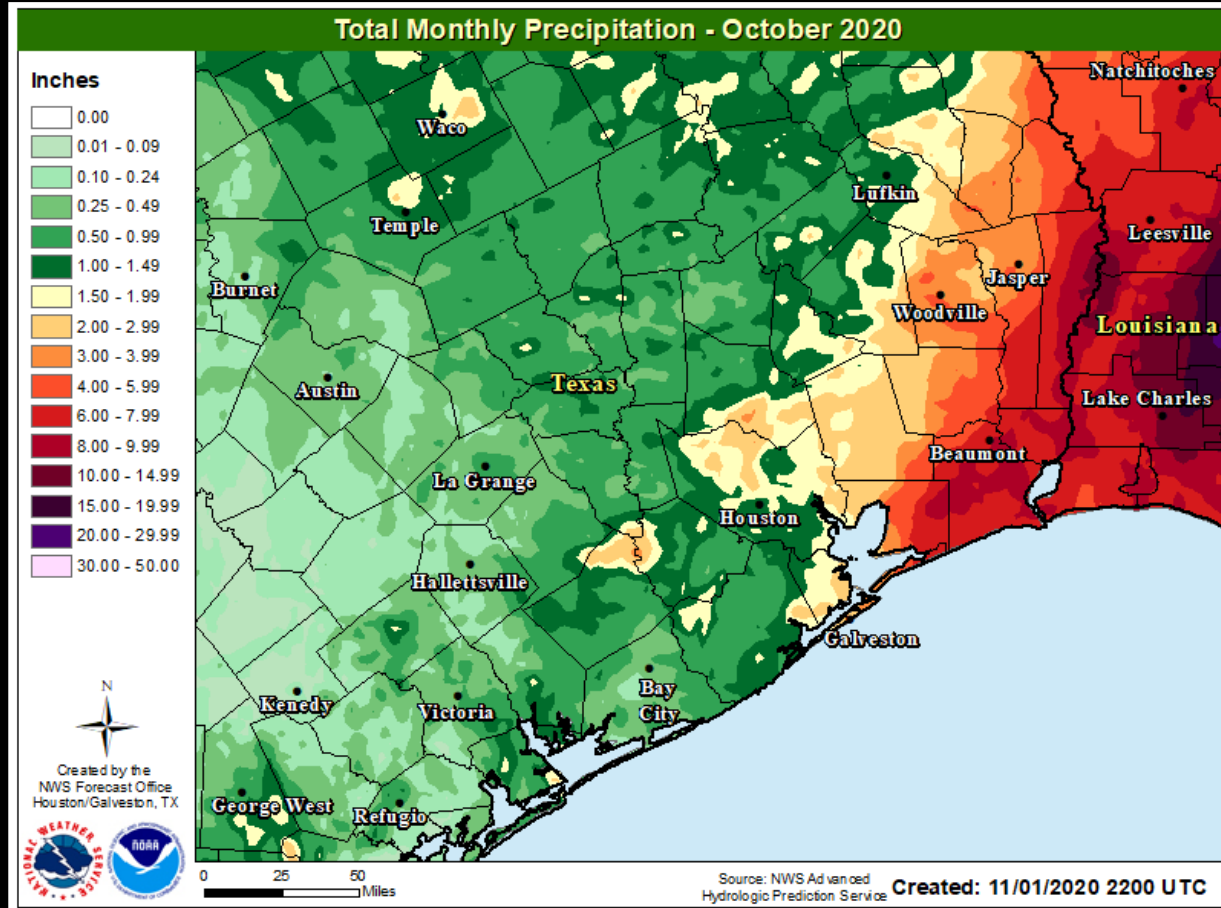
City of Galveston

City of College Station

Houston-Hobby



Precipitation Maps



Temperature

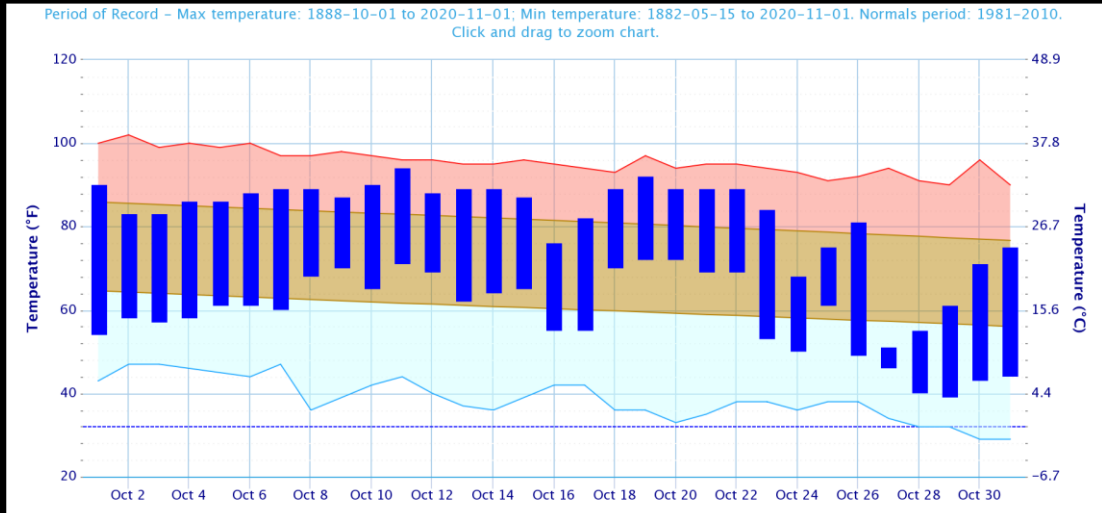
Location	Average High Temp (F)	Average Low Temp (F)	Average Temp (F)	Normal Average Temp (F)	Departure From Normal Average (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	81.3	69.2	75.3	74.3	+1.0	89 on the 12 th	50 on the 29 th
Houston Hobby (HOU)	83.6	65.1	74.3	72.1	+2.2	93 on the 11 th & 15 th	46 on the 29 th
City of Houston (IAH)	82.6	60.9	71.7	71.5	+0.2	94 on the 11 th	42 on the 29 th
College Station (CLL)	82.1	59.0	70.6	70.8	-0.2	94 on the 11 th	39 on the 29 th

October continued the stretch of warmer than normal conditions for most of the area, but not as dramatically as previous month. A couple of cold fronts moved into the region through the month, but would either stall near the City of Houston or only provide cooler air for a couple of days. College Station was the only climate site to experience all of these cold fronts, so it was able to (just barely) see a cooler than normal month.

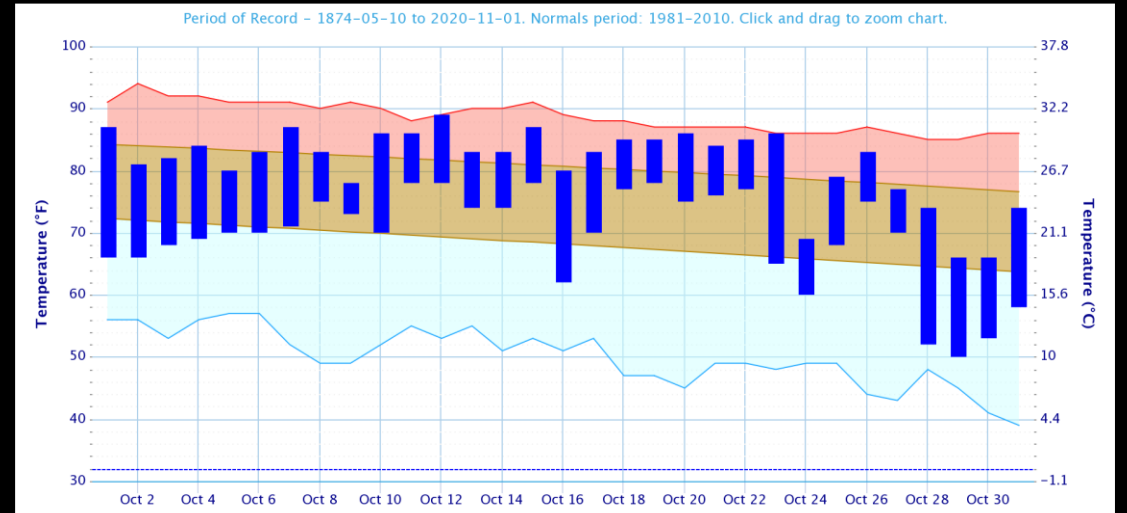


Temperature Charts

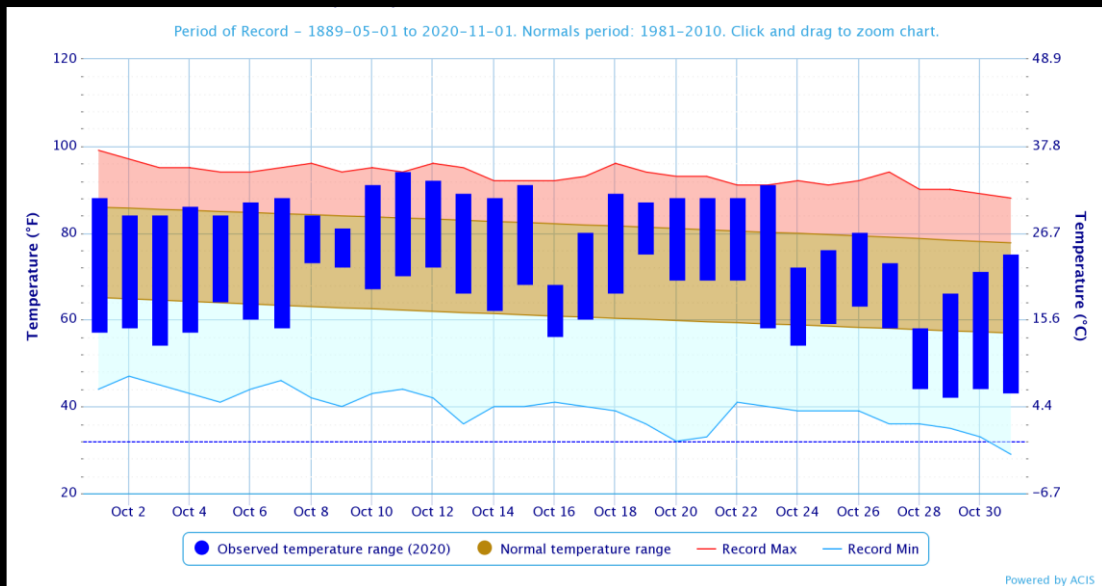
City of College Station



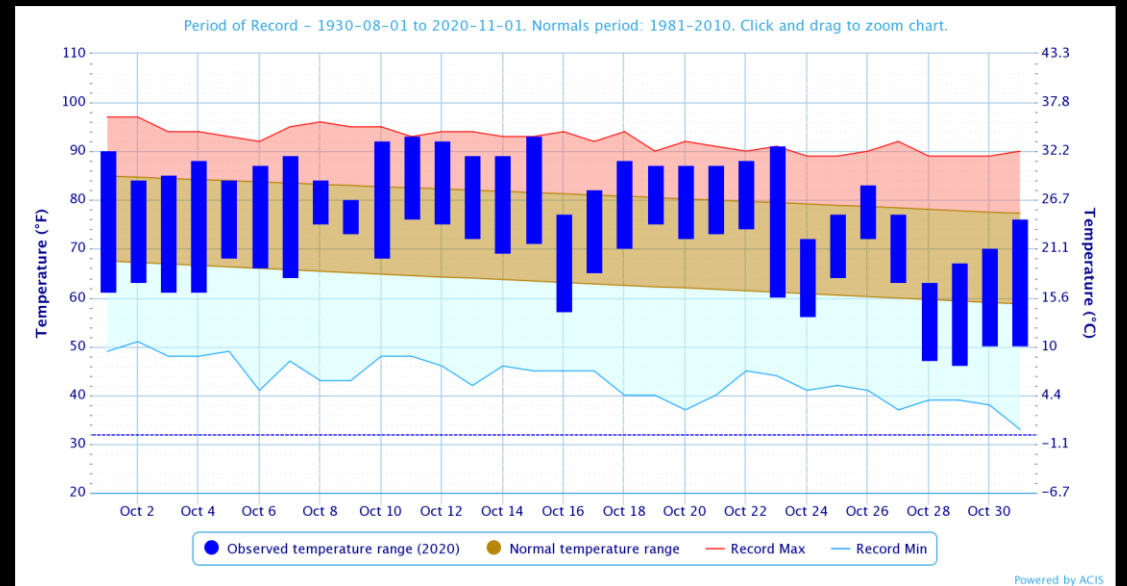
City of Galveston



City of Houston



Houston-Hobby



Daily Record Reports

Site	Date	Record Type	New Record	Previous Record
City of Houston	October 11 th	High Max Temperature	94° - T	94° in 1962
City of Houston	October 23 rd	High Max Temperature	91° - T	91° in 1988
Houston-Hobby	October 11 th	High Max Temperature	93° - T	93° in 1962
Houston-Hobby	October 15 th	High Max Temperature	93° - T	93° in 2017
Houston-Hobby	October 23 rd	High Max Temperature	91°	90° in 2003
City of Galveston	October 12 th	High Max Temperature	89°	88° in 2017
City of Galveston	October 23 rd	High Max Temperature	86° - T	86° in 2004
City of College Station	October 28 th	Low Max Temperature	51° - T	51° in 1936

There were 8 daily records set during the month of October.



Key

High Max

Low Max

Precip

High Min

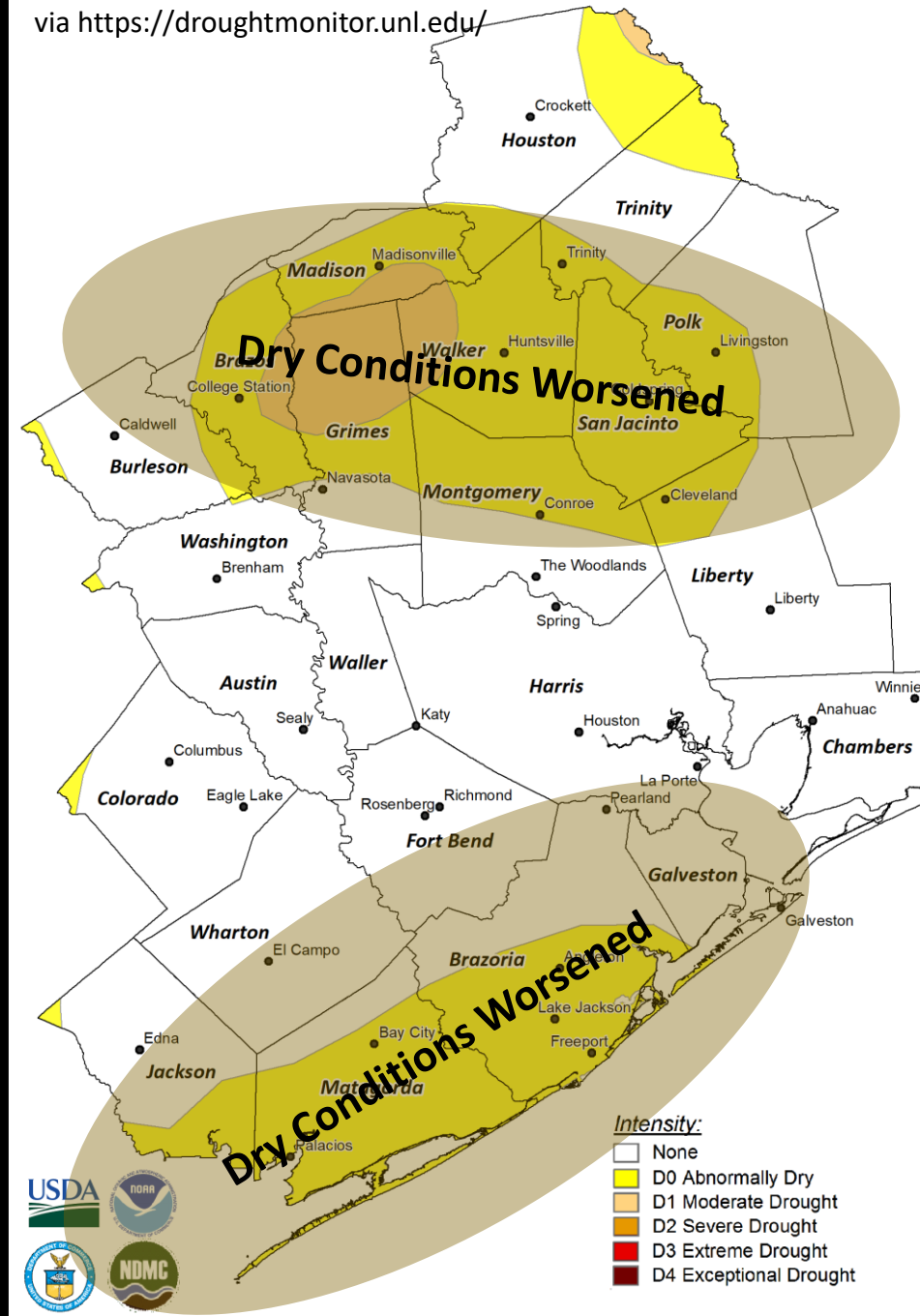
Low Min

Drought Monitor

As of October 27th

A drier than normal October led to the emergence of D1-Moderate Drought across portions of Grimes, Brazos, Madison, Walker, and Houston counties. Abnormally dry conditions are also seen in portions of Walker, San Jacinto, Madison, Houston, Trinity, Grimes, Brazos, Montgomery, Matagorda, Jackson, and Brazoria counties.

via <https://droughtmonitor.unl.edu/>

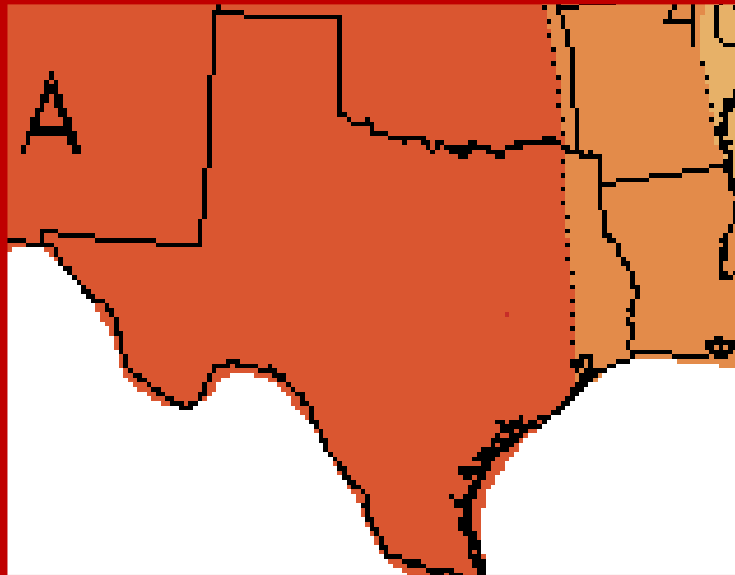


November Climatology & Outlook

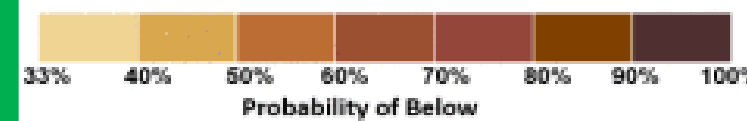
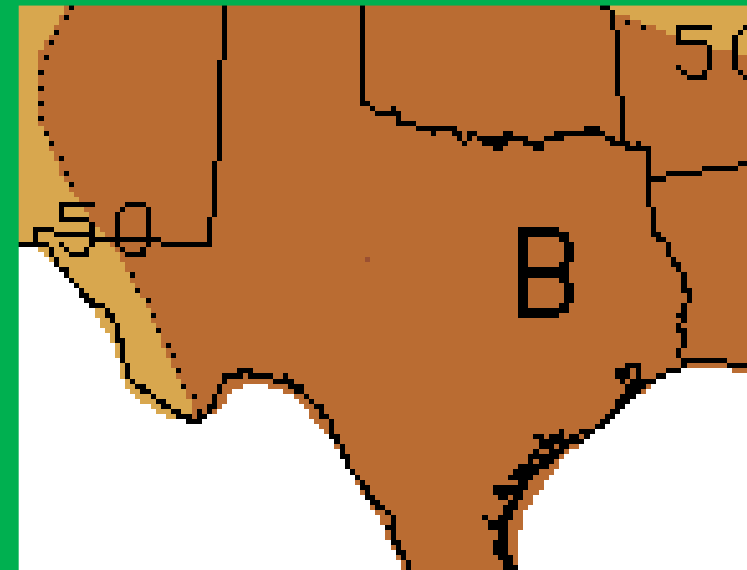
Location	Average Temp (°F)	Normal High (°F)	Normal Low (°F)
Galveston	65.1	71.6	58.6
Houston Hobby	63.2	72.4	53.9
City of Houston	62.3	72.5	52.1
College Station	60.8	71.0	50.5

Location	Normal Monthly Precipitation (in.)
Galveston	4.51
Houston Hobby	4.32
City of Houston	4.34
College Station	3.22

Temperature Outlook



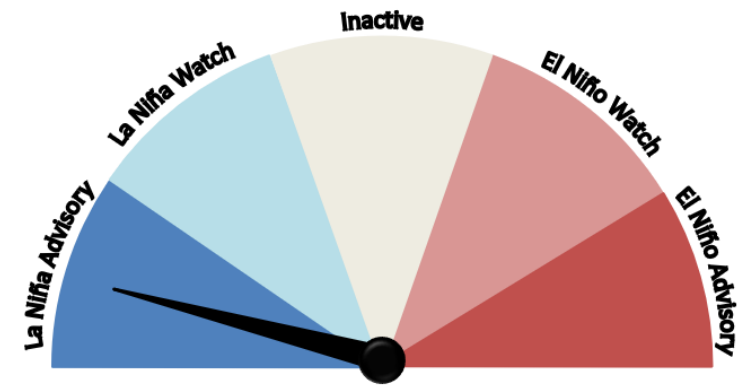
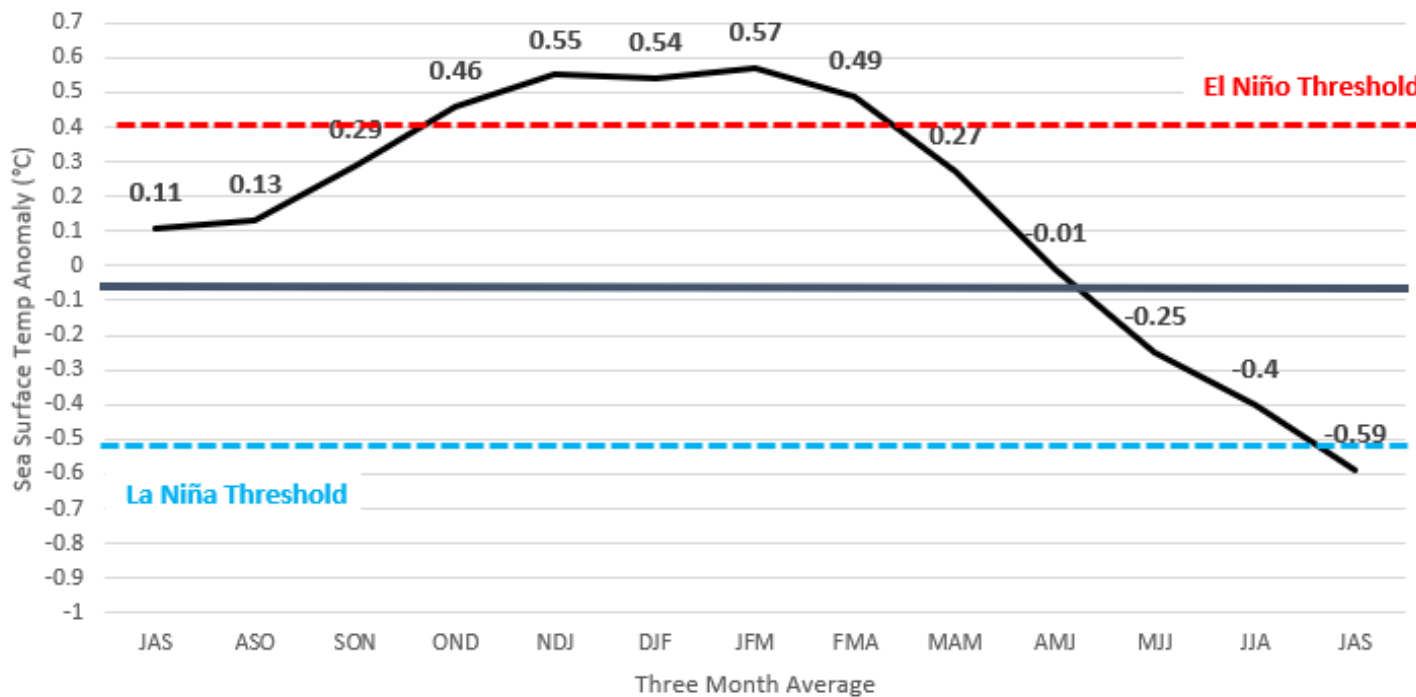
Precipitation Outlook



The Climate Prediction Center's ENSO Forecast: La Niña Advisory

- La Niña conditions are present
- 85% chance of La Niña conditions continuing through the winter

Sea Surface Temperature Anomalies (°C) in the Tropical Pacific



El Niño or La Niña Watch: Issued when conditions are favorable for the development of El Niño or La Niña conditions within the next six months.

El Niño or La Niña Advisory: Issued when El Niño or La Niña conditions are observed and expected to continue.



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).

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.

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 .

Houston Hobby (HOU)

Records are based upon observations beginning in August 1931.

