

NWS Houston, Texas November 2020 Regional Climate Summary

Produced by Jimmy Fowler



...Unseasonably warm & dry month that ended with a strong cold front...

...Winter Outlook favors an unseasonably warm & dry season due to a strong La Niña building in the Pacific...

Drought conditions expanded across the area during the month of November due to the area experiencing almost no precipitation through the first three weeks of the month. These dry conditions allowed for above normal temperatures to persist through the majority of the month as well. This all changed when a complex system involving a stalled front, coastal low, and eventual cold front at the end of the month brought some much needed rain for the region. This allowed for most of the area to finish off the month closer to near normal precipitation totals. The Winter Outlook from the Climate Prediction Center is also included in this summary. The outlook calls for continued warm and dry conditions for the region thanks to a very strong La Niña building in the Pacific Ocean.

Table of Contents

Page Number	Page Title
1	Cover
2	Table of Contents
3	By the Numbers
4	Precipitation Summary
5	Precipitation Graph
6	Precipitation Imagery
7	Temperature Summary
8	Temperature Charts
9	Daily Record Reports
10	Drought Monitor
11	Next Month Outlook
12 – 14	Winter Outlook
15	ENSO Review
16	Climate Primary Site History



By the Numbers: November 2020

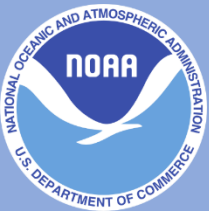
Location (records started)	Average Temp	Ranking	Total Rainfall	Ranking
City of Houston, TX (1888)	66.0°F	14 th Warmest	3.86"	48 th Wettest
Houston Hobby, TX (1930)	68.7°F	3 rd Warmest	4.40"	33 rd Wettest
City of Galveston, TX (1871)	70.2°F	6 th Warmest	2.74"	70 th Driest
City of College Station, TX (1882)	65.5°F	6 th Warmest	0.96"	19 th Driest
Conroe, TX (1997)	63.2°F	3 rd Warmest	3.18"	7 th Driest
Huntsville, TX (1997)	64.6°F	3 rd Warmest	2.26"	9 th Driest
Sugar Land, TX (2000)	67.5°F	2 nd Warmest	5.47"	4 th Wettest
Palacios, TX (1943)	67.3°F	8 th Warmest	4.25"	23 rd Wettest
Clover Field (Pearland), TX (1997)	66.9°F	3 rd Warmest	4.65"	9 th Wettest
David Wayne Hooks (Tomball), TX (1998)	64.8°F	3 rd Warmest	3.23"	12 th Driest
Angleton, TX (1998)	66.5°F	4 th Warmest	3.03"	10 th Driest
League City, TX (1990)	67.0°F	3 rd Warmest	4.39"	13 th Wettest



Precipitation

Location	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	2.74	-1.77	1	2.16	28 th
Houston Hobby (HOU)	4.40	+0.08	1	1.99	28 th
City of Houston (IAH)	3.86	-0.48	1	1.72	28 th
College Station (CLL)	0.96	-2.26	1	0.33	25 th

Most of the area experienced a drier than normal November, but a late month system brought up to four inches of rain to parts of the area. Without that late month disturbance, this November would have ranked as one of the driest region wide.

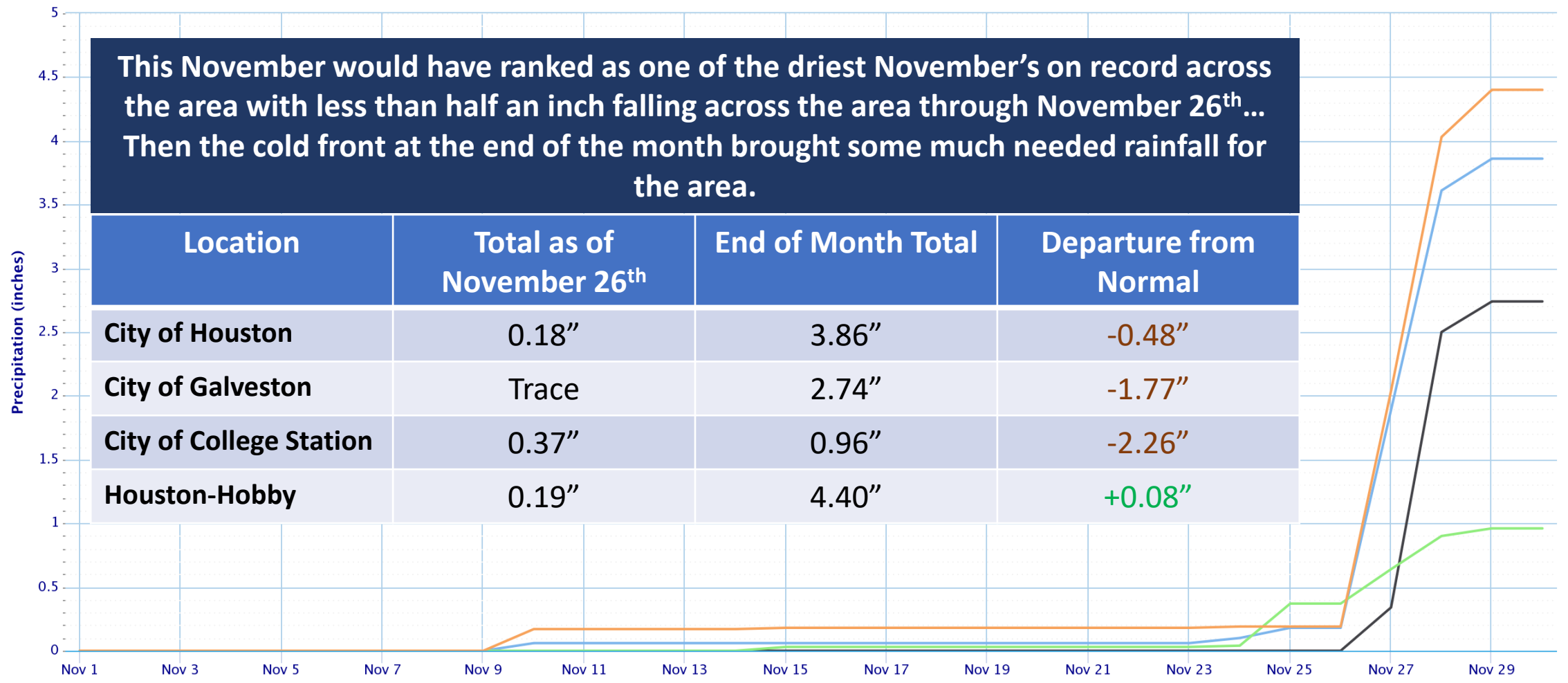


Precipitation Accumulation Graph

Accumulated Precipitation

Green/black diamonds represent subsequent/missing values

This November would have ranked as one of the driest November's on record across the area with less than half an inch falling across the area through November 26th... Then the cold front at the end of the month brought some much needed rainfall for the area.



City of Houston

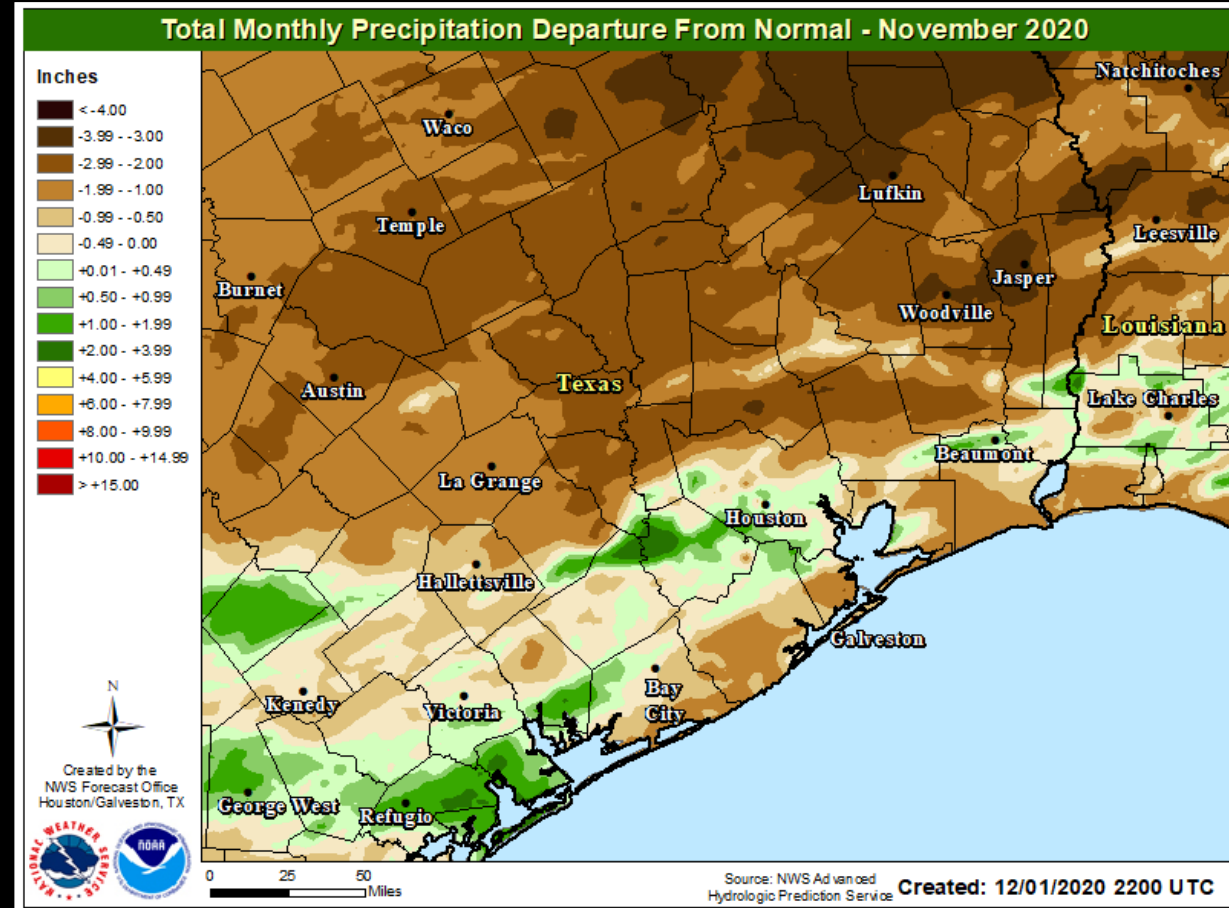
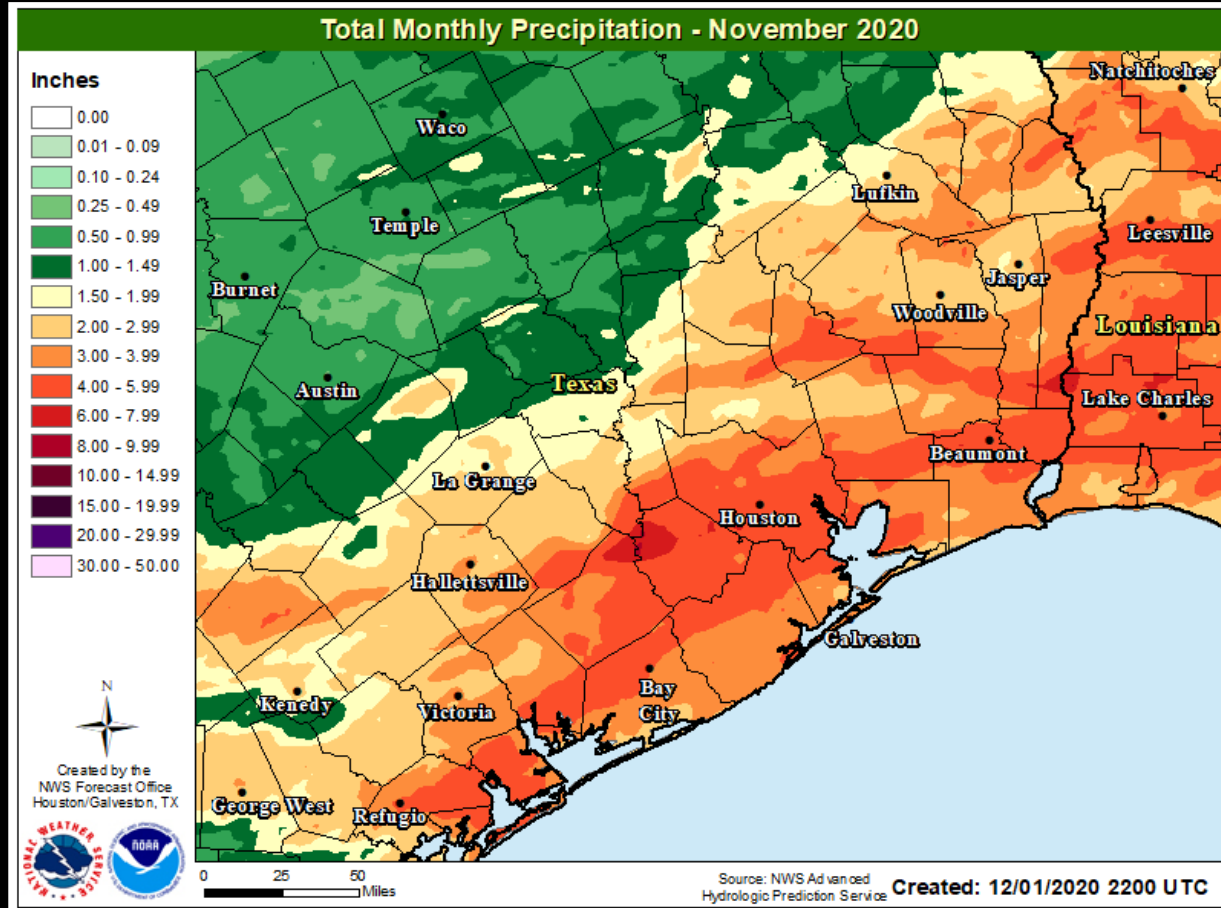
City of Galveston

City of College Station

Houston-Hobby



Precipitation Maps



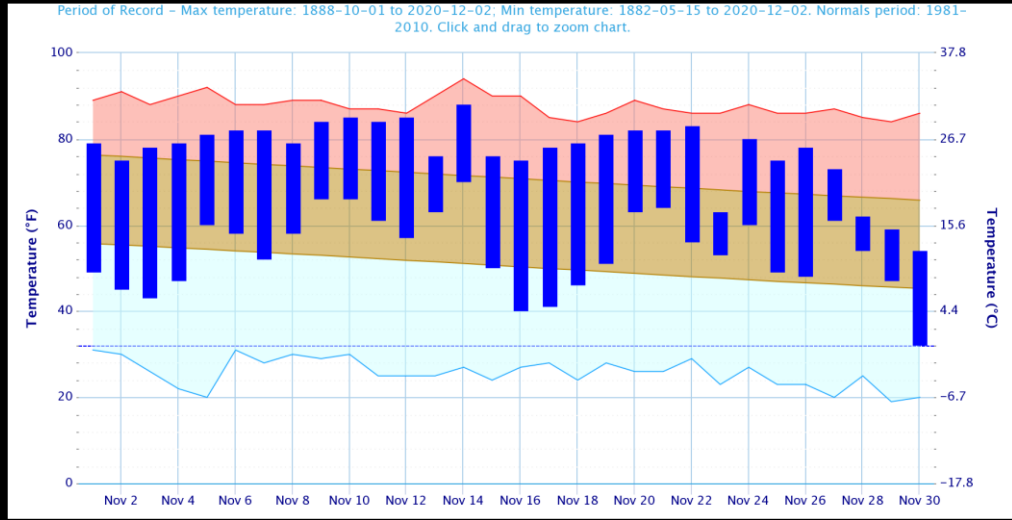
Temperature

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)	76.0	64.4	70.2	65.1	+4.4	83 on the 14 th	47 on the 30 th
Houston Hobby (HOU)	78.2	59.2	68.7	63.2	+5.5	87 on the 10 th	39 on the 30 th
City of Houston (IAH)	77.8	54.1	66.0	62.3	+3.7	87 on the 10 th & 14 th	37 on the 30 th
College Station (CLL)	77.2	53.7	65.4	60.8	+4.6	88 on the 14 th	32 on the 30 th

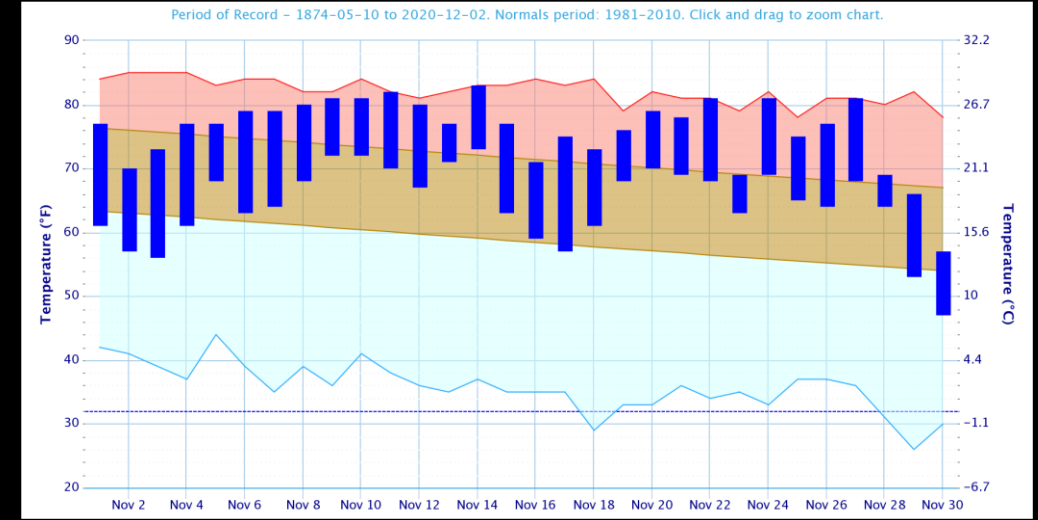
Most of the month experienced little to no rainfall, so this allowed for average temperatures to rise to three to six degrees above normal. Temperatures did take a dive at the end of the month behind a strong cold front.

Temperature Charts

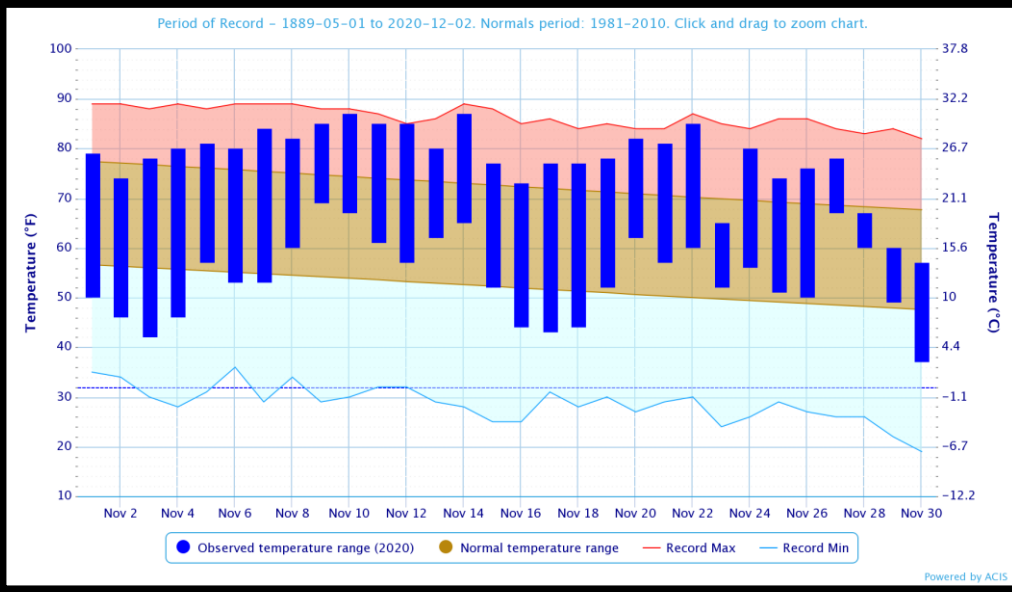
City of College Station



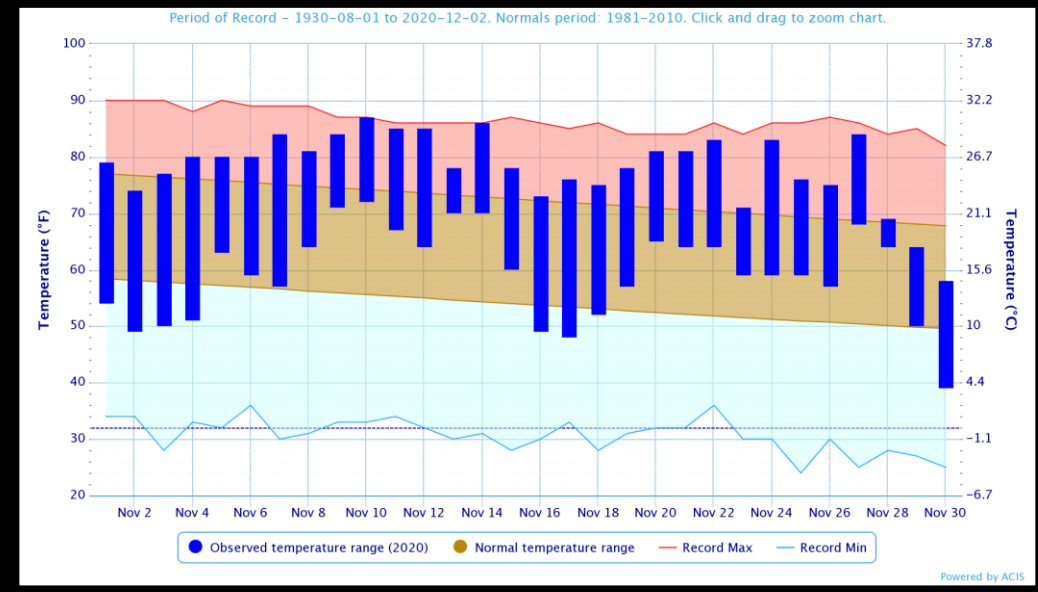
City of Galveston



City of Houston



Houston-Hobby



Daily Record Reports

Site	Date	Record Type	New Record	Previous Record
City of Houston	November 12 th	High Max Temperature	85° - T	85° in 2003
Houston-Hobby	November 10 th	High Max Temperature	87° - T	87° in 2006
Houston-Hobby	November 11 th	High Min Temperature	72° - T	72° in 1995
Houston-Hobby	November 14 th	High Max Temperature	86° - T	86° in 2007
Houston-Hobby	November 28 th	Daily Max Rainfall	1.99"	1.61" in 1942
City of Galveston	November 11 th	High Max Temperature	82°	81° in 2012
City of Galveston	November 14 th	High Max Temperature	83°	81° in 2007
City of Galveston	November 22 nd	High Max Temperature	81° - T	81° in 2016
City of Galveston	November 27 th	High Max Temperature	81°	79° in 1973

There were 9 daily records set during the month of November.



Key

High Max

Low Max

Precip

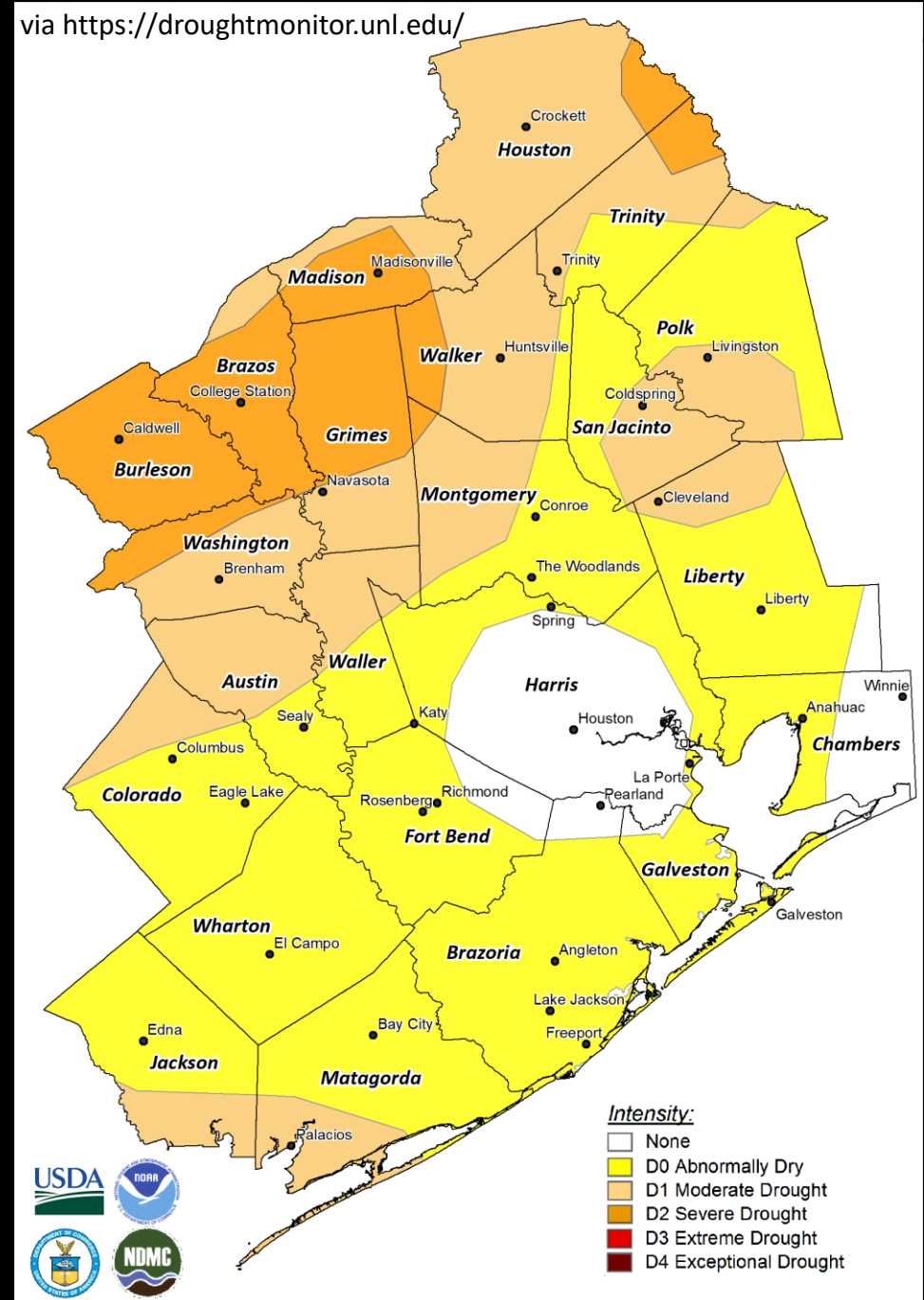
High Min

Low Min

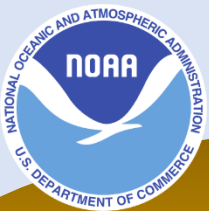
Drought Monitor

As of December 3rd

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



While the wet end of the month provided some relief from the drought conditions, overall the drought expanded and got worse across much of the area through the month of December. D2-Severe Drought now extends through the Burleson, Brazos, Grimes, and Madison counties with portions of Walker, Houston, and Trinity counties also experiencing Severe Drought.

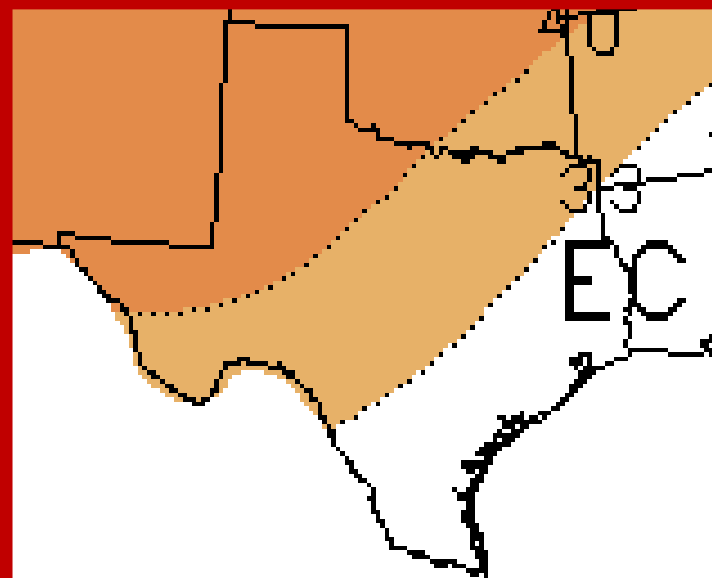


December Climatology & Outlook

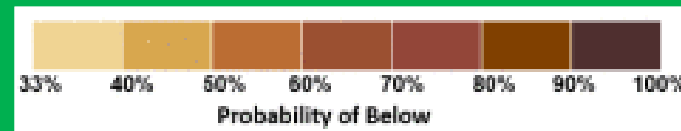
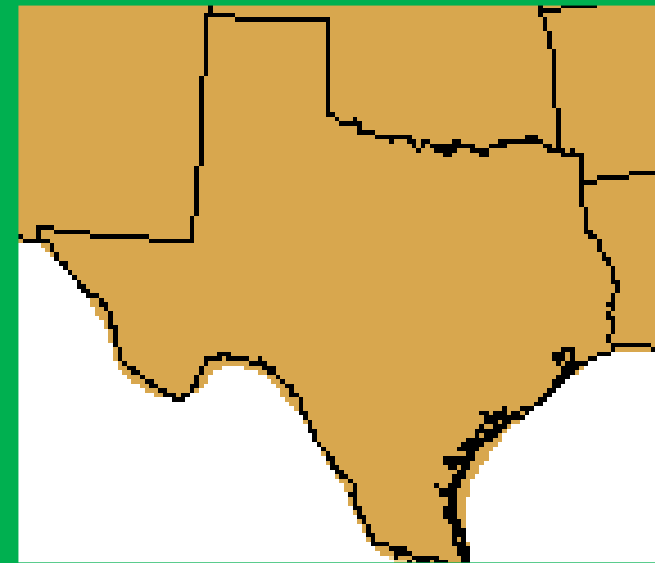
Location	Average Temp (°F)	Normal High (°F)	Normal Low (°F)
Galveston	57.3	63.9	50.7
Houston Hobby	55.6	64.5	57.3
City of Houston	55.6	64.3	46.4
College Station	52.2	62.3	42.2

Location	Normal Monthly Precipitation (in.)
Galveston	3.52
Houston Hobby	4.03
City of Houston	3.76
College Station	3.23

Temperature Outlook

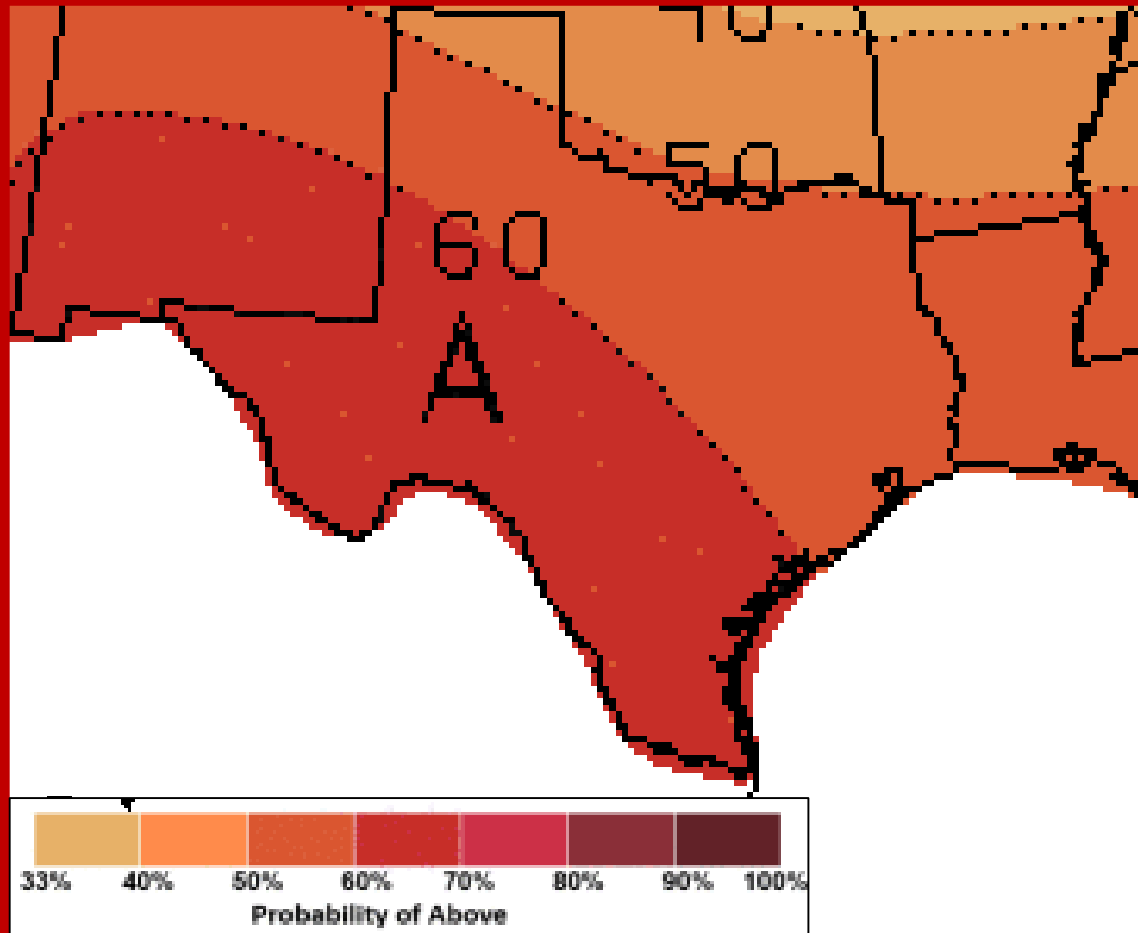


Precipitation Outlook

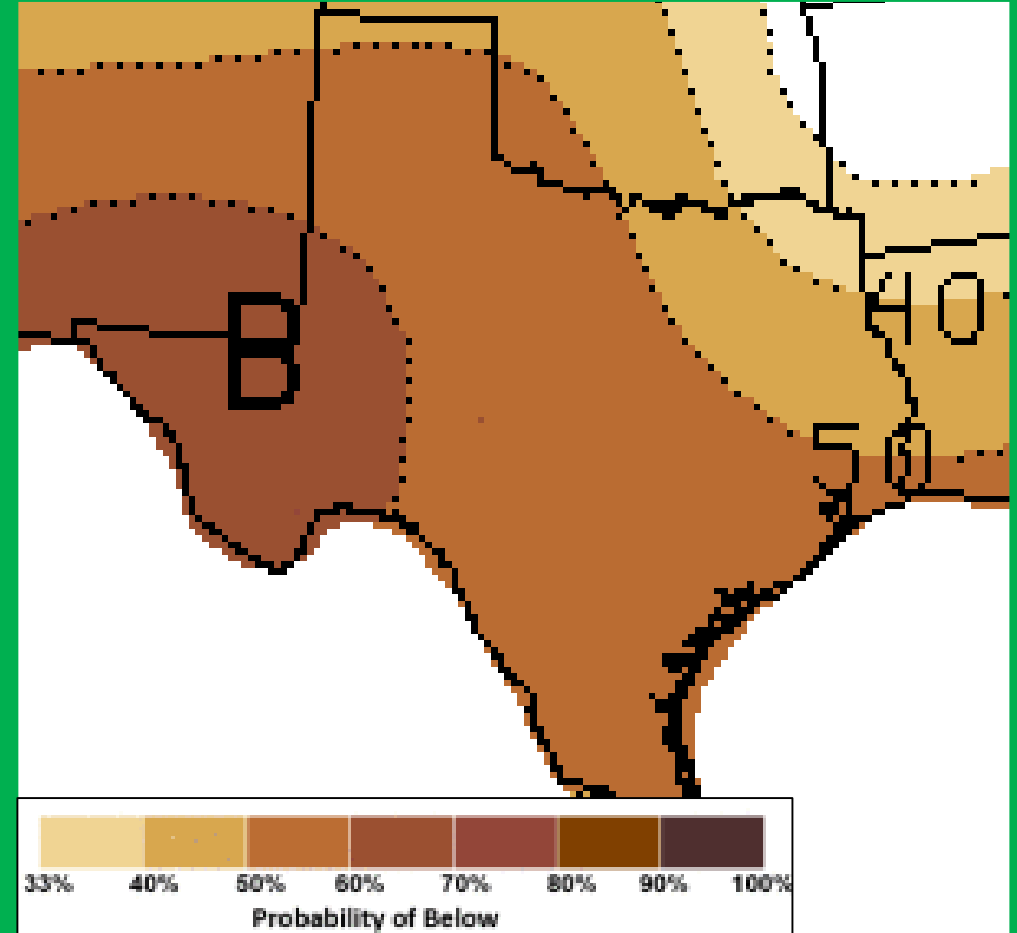


Winter Outlook (December – February)

Temperature Outlook

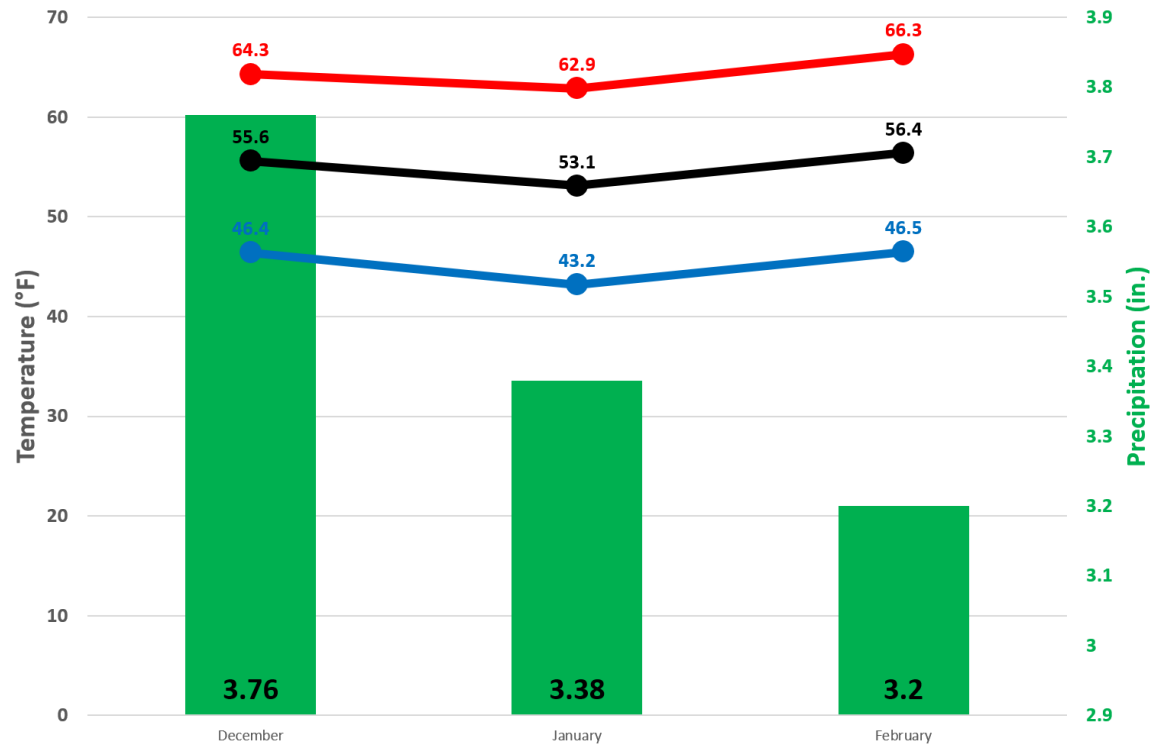


Precipitation Outlook

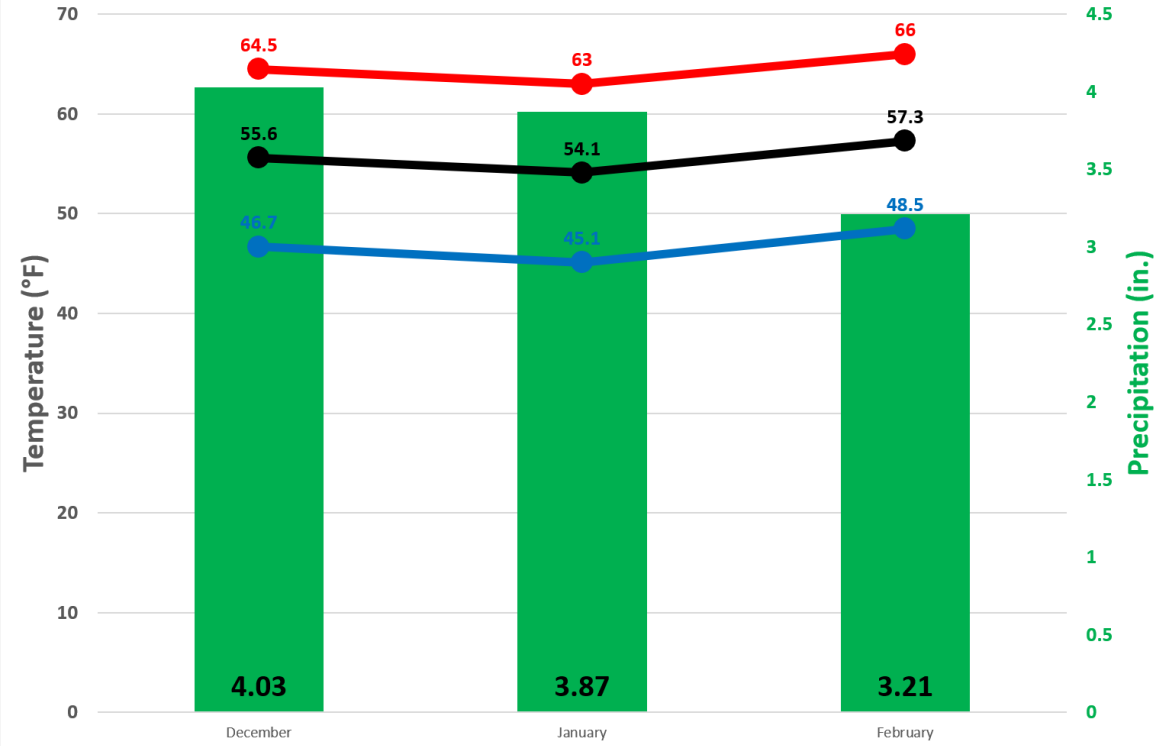


Winter Climatology (December – February)

City of Houston: Winter Climatology



Houston-Hobby: Winter Climatology



Legend

Green Bar: Average Precipitation

Red Line: Average Max Temperature

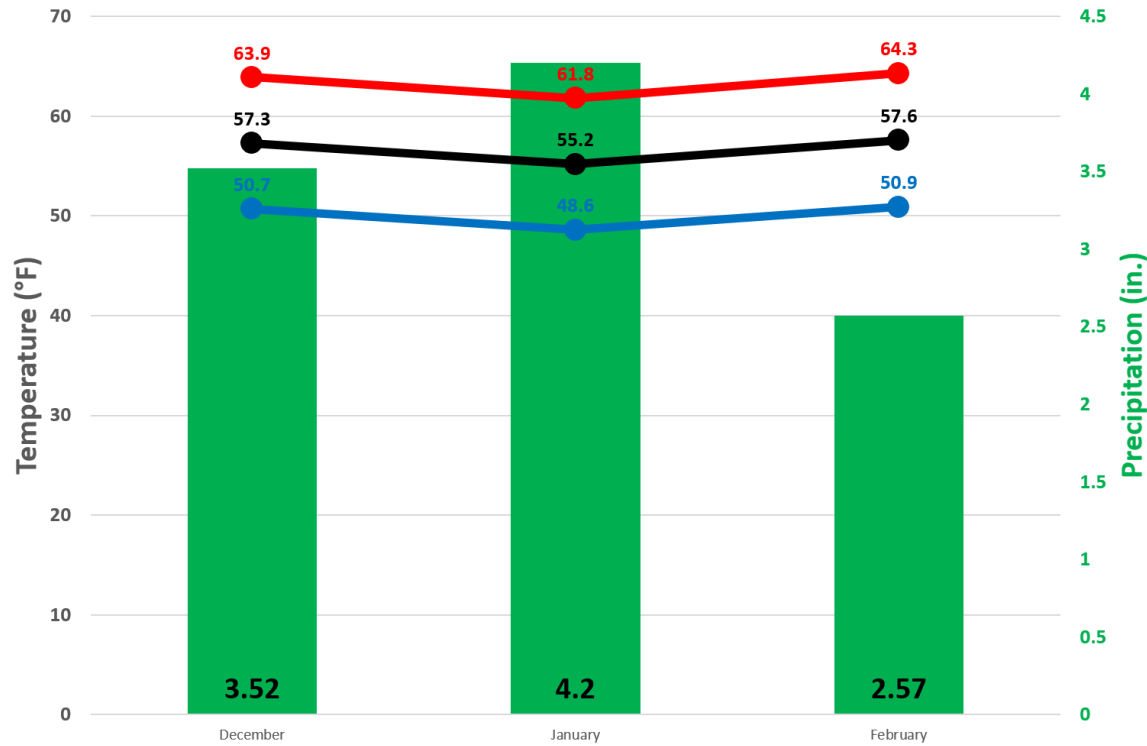
Black Line: Average Temperature

Blue Line: Average Min Temperature

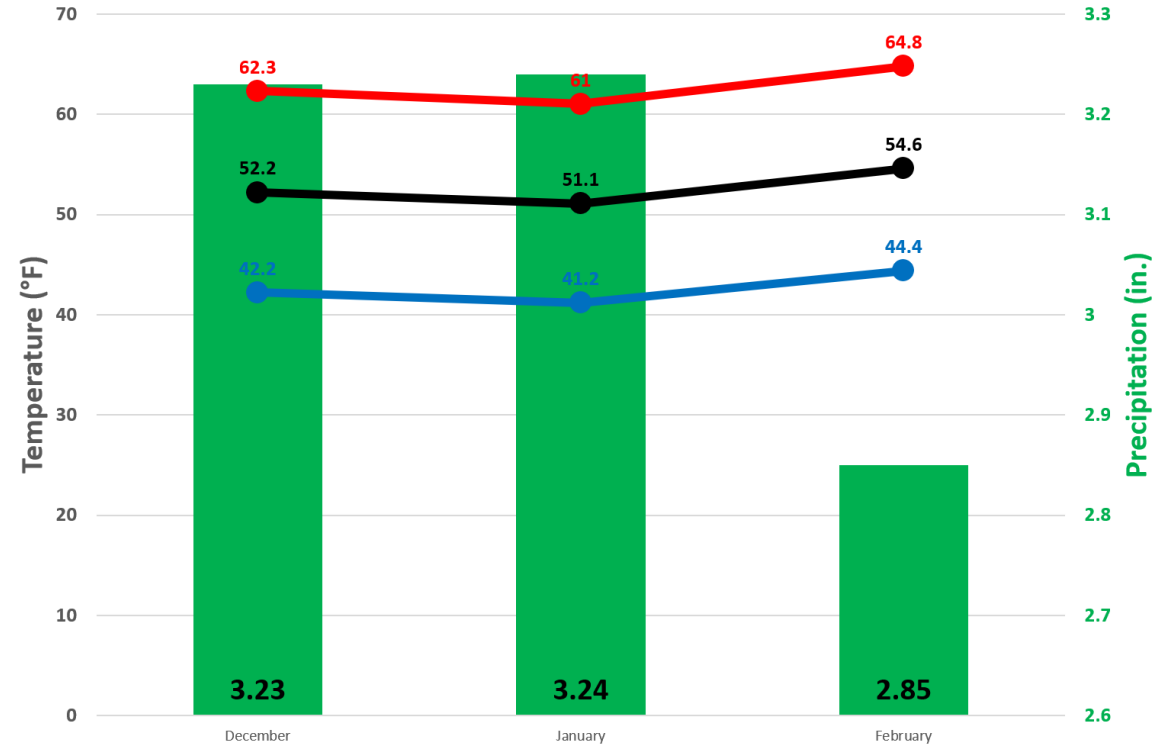


Winter Climatology (December – February)

City of Galveston: Winter Climatology



City of College Station: Winter Climatology



Legend

Green Bar: Average Precipitation

Red Line: Average Max Temperature

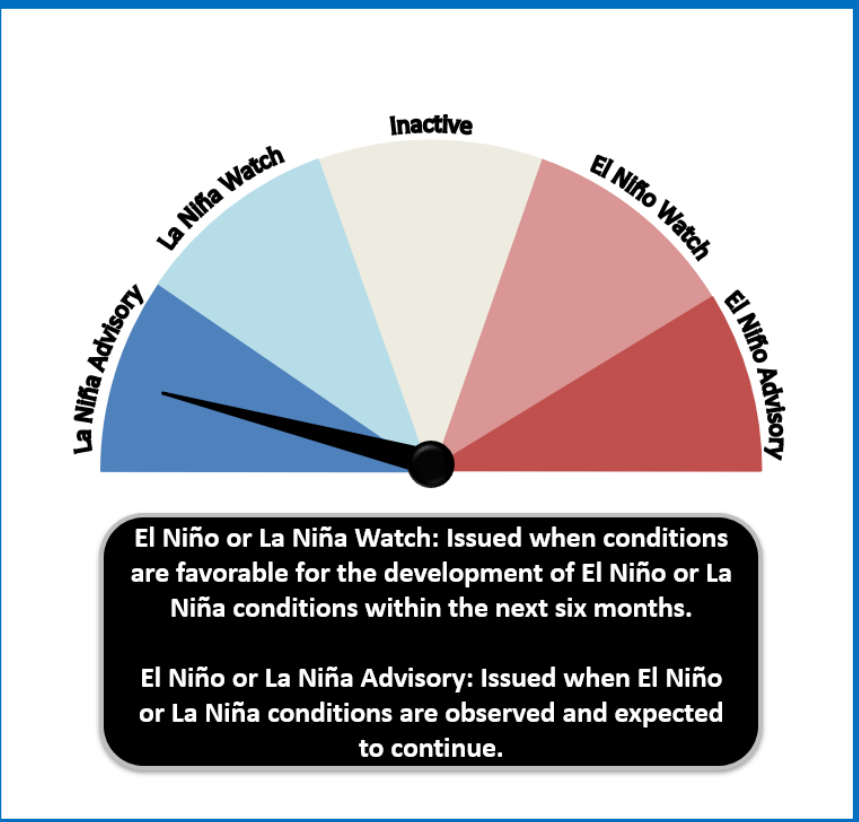
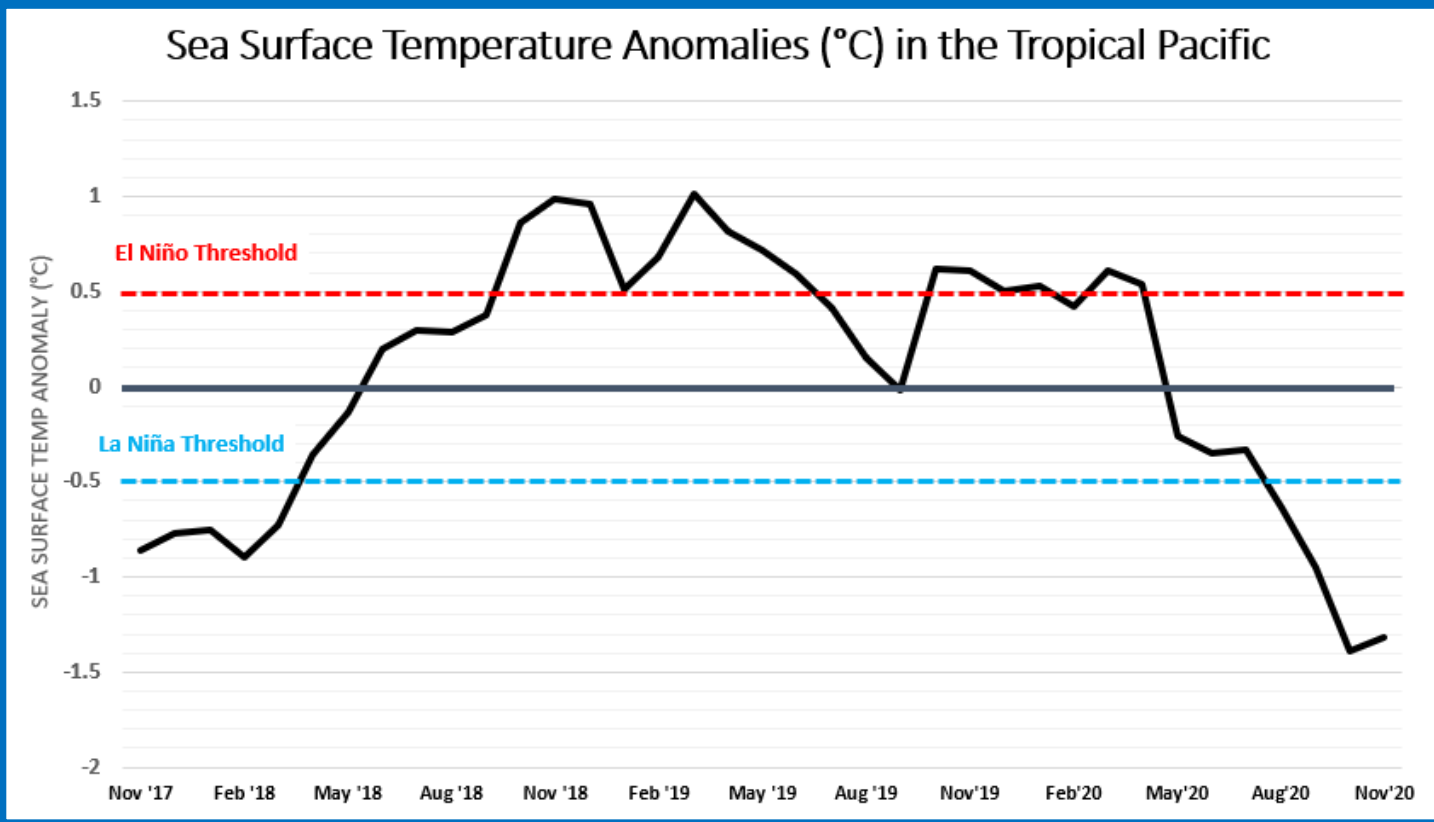
Black Line: Average Temperature

Blue Line: Average Min Temperature



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

- La Niña conditions are present
- 95% chance of La Niña conditions continuing through March



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.

