



# NWS Houston, Texas January 2019 Regional Climate Summary

#### **Produced by Nikki Hathaway and Josh Lichter**

#### ... Abnormally Wet January ...

A combination of cold fronts and coastal troughs brought above normal monthly rainfall to SE TX throughout the month of January. On the contrary, average temperatures remained near normal. A total of only three daily records were broken across the primary climate sites throughout the month, with one being a snowfall record.

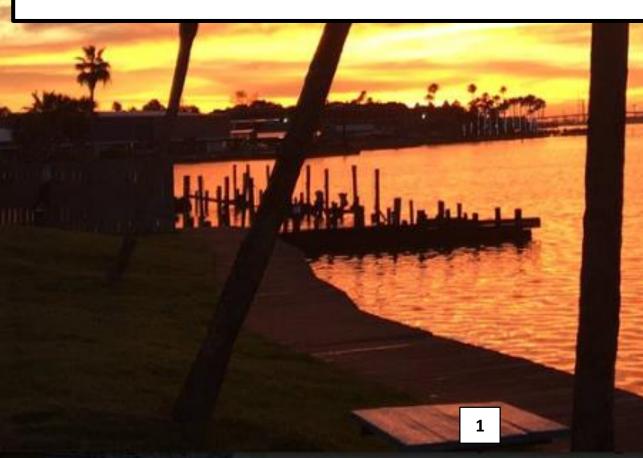


Photo taken by NWS Houston Twitter Follower Katie French

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# **Precipitation**

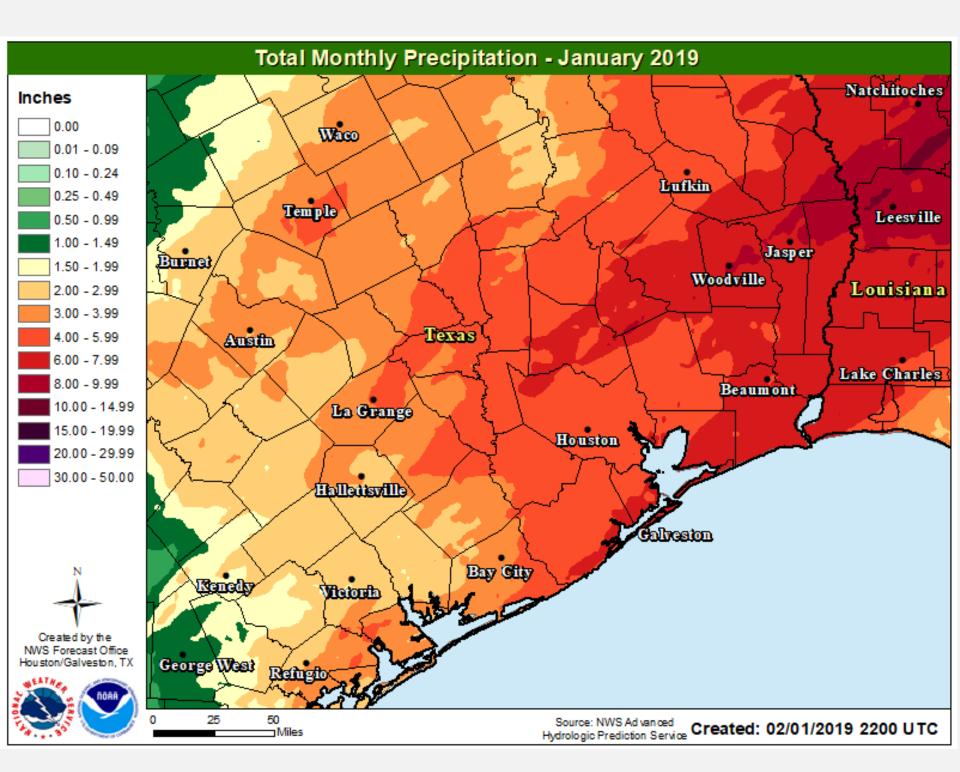
Most of the precipitation that occurred during the month of January occurred due frontal passages and coastal troughs which skirted the upper Texas coast. During the first week of January, a cold front, which later transitioned into a coastal trough, brought nearly a 3<sup>rd</sup> of the monthly rainfall total between January 2<sup>nd</sup> and 3<sup>rd</sup>. A strong fast moving cold front welcomed in the second week of the month, followed by another reinforcing dry cold front. High pressure filled in behind these frontal passages, and on January 17<sup>th</sup>, another coastal trough set up over the northwestern Gulf of Mexico and tracked NE. A warm front retreated across the region on January 18<sup>th</sup>, helping to bring some additional precipitation to the region. Two more cold fronts slide through the region by the third week of January bringing nearly another inch of rainfall area wide. The last week of the month saw another four cold fronts with most of these being rather weak, but overall little precipitation fell. Overall, the month was wetter than normal by about 0.5 to 1.5 inches.

Site	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	5.12	+0.92	3	1.56	Jan. 2nd
Houston Hobby (HOU)	4.16	+0.29	3	1.43	Jan. 2nd
City of Houston (IAH)	4.08	+0.70	3	1.41	Jan. 2nd
College Station (CLL)	4.83	+1.59	3	2.22	Jan. 2nd





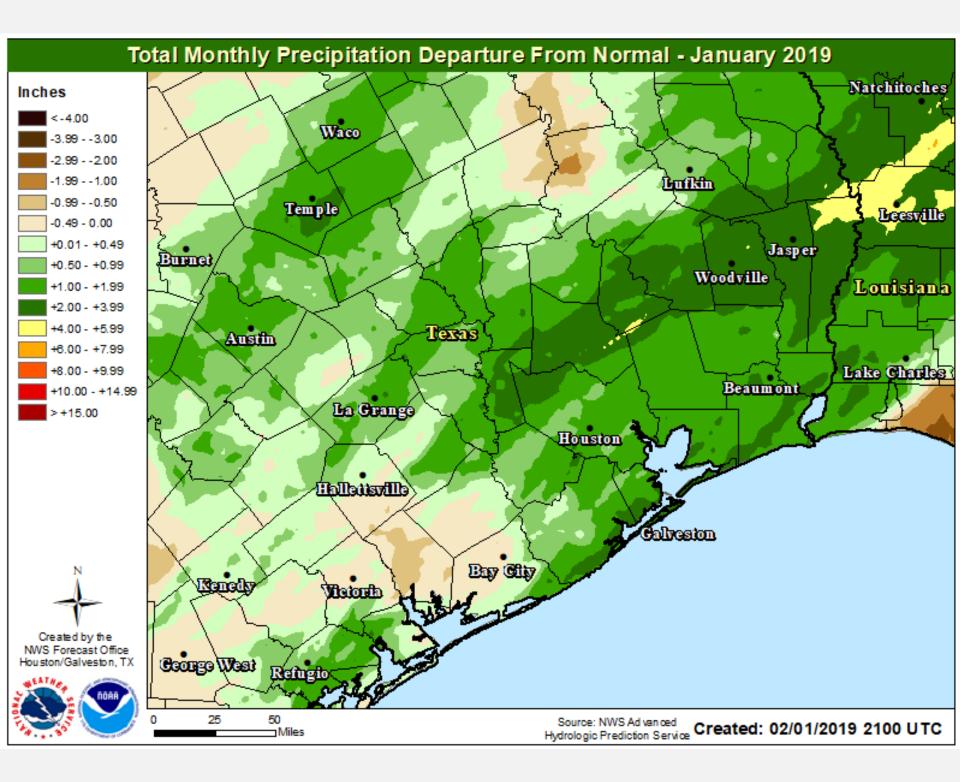
# **Precipitation** (Continued)







# **Precipitation** (Continued)







# **Temperatures**

The cold front that passed through SE TX during the first week of January brought temperatures from near normal to slightly below normal, to start off the new year. High pressure built in behind the front, and towards the end of the week a much warmer air mass filtered into the region, ending the first week of January with average temperatures nearly 10 to 15 degrees above normal. Two more cold fronts helped to cool things back down the during much of the second week, with high pressure filling in behind these features. Average temperatures shot well above normal once again from January 16<sup>th</sup> through the 19<sup>th</sup> as another coastal trough and eventually a warm front helped drag in another warm and moist air mass. The warm front was quickly replaced by another strong cold front which brought temperatures 10 to 15 degrees below normal for much of the third week of the month. Multiple cold fronts swept through the region during the last week of the month, with average temperatures in the last few days of January once again below normal. The combination of warm and cold periods left the overall monthly temperatures near to slightly above normal.

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)	55.2	62.1	48.4	55.2	0.0	72 on January 8th	36 on January 20th
Houston Hobby (HOU)	54.5	63.9	45.0	54.1	+0.4	78 on January 8th	32 on January 24th
City of Houston (IAH)	53.4	64.1	42.7	53.1	+0.3	79 on January 8th	30 on January 24th
College Station (CLL)	50.6	60.2	41.0	51.1	-0.6	75 on January 8th	29 on January 20 & 24th

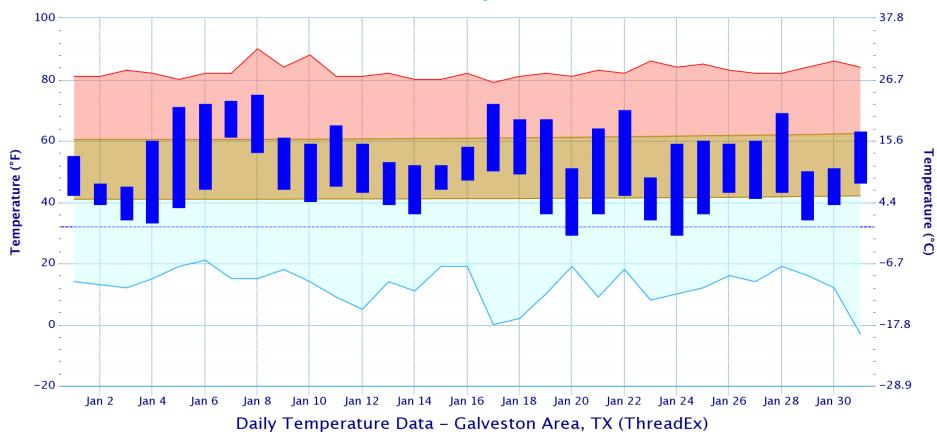




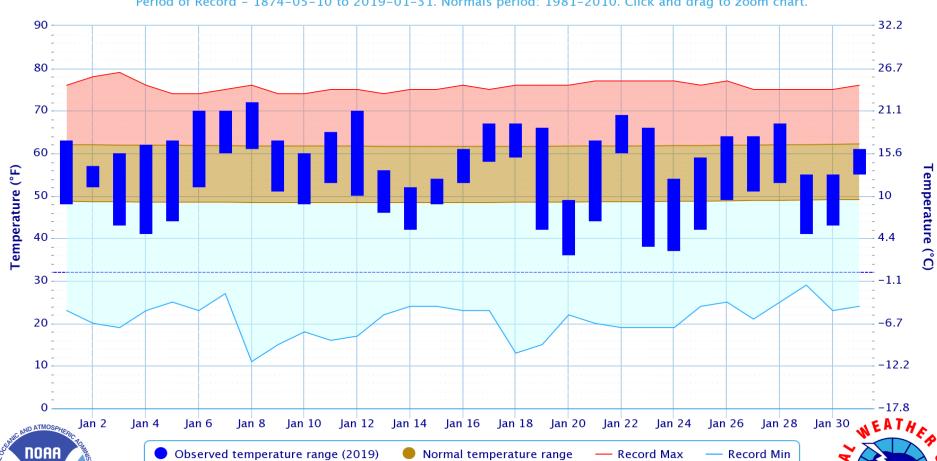
# **Monthly Temperature Charts**

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

Period of Record - Max temperature: 1888-10-01 to 2019-01-31; Min temperature: 1882-05-15 to 2019-01-31. Normals period: 1981-2010. Click and drag to zoom chart.



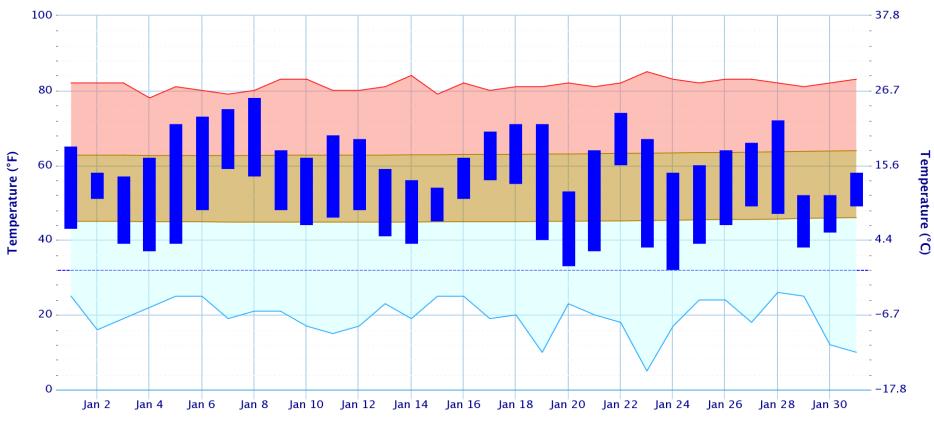
Period of Record - 1874-05-10 to 2019-01-31. Normals period: 1981-2010. Click and drag to zoom chart.



## **Monthly Temperature Charts (continued)**

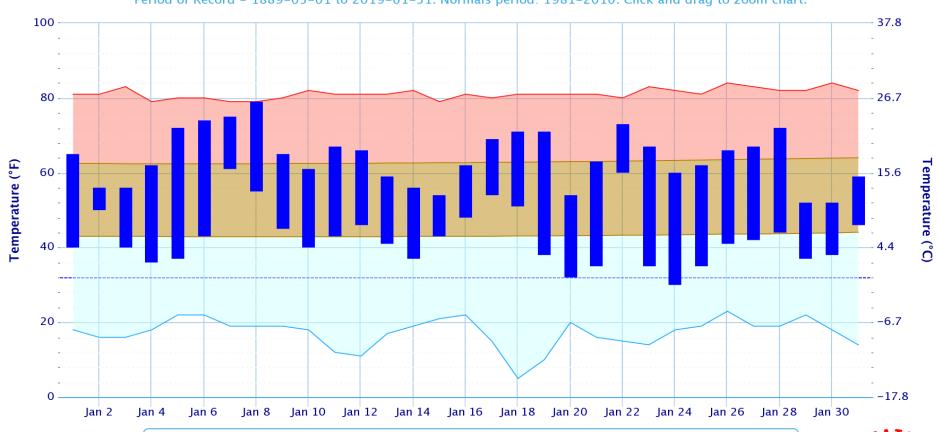
#### Daily Temperature Data - HOUSTON WILLIAM P HOBBY AP, TX

Period of Record – 1930–08–01 to 2019–01–31. Normals period: 1981–2010. Click and drag to zoom chart.



Daily Temperature Data - Houston Area, TX (ThreadEx)

Period of Record - 1889-05-01 to 2019-01-31. Normals period: 1981-2010. Click and drag to zoom chart.







Record Min

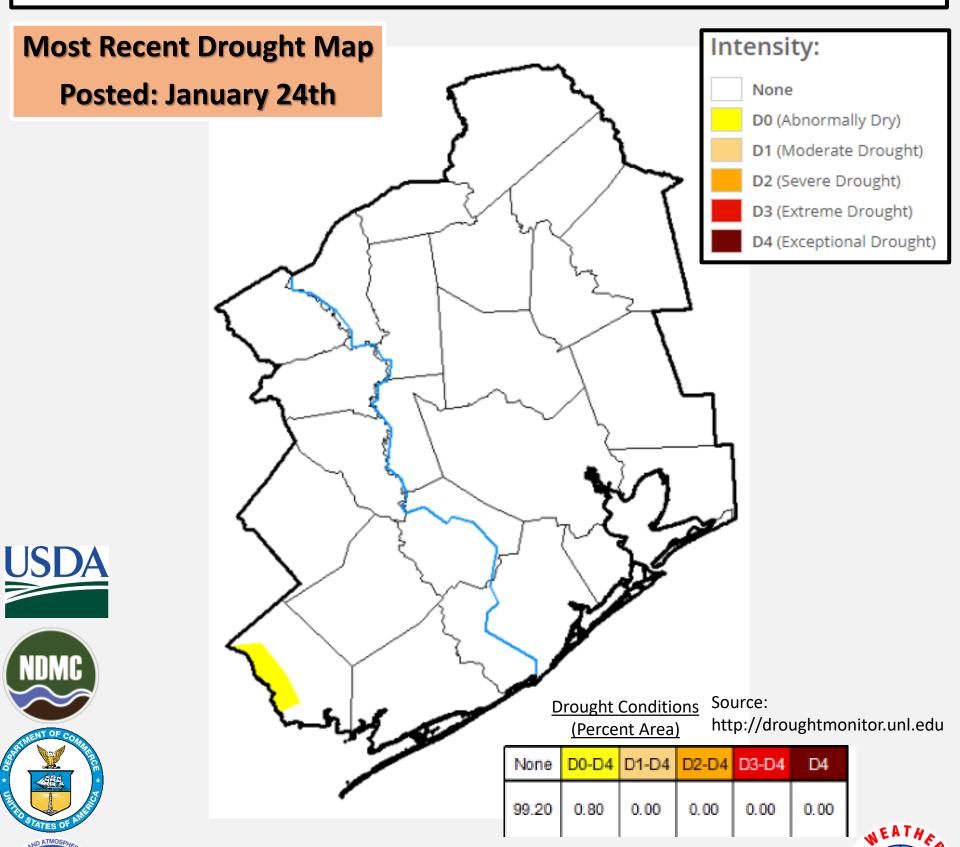
— Record Max

Normal temperature range

Observed temperature range (2019)

### **Drought Conditions**

The month of January ended with a bullseye of D0 drought conditions in SE TX, specifically in Jackson County.





# **December Daily Record Reports**

A total of 3 daily records were set across the four primary climate sites.

Site	Date	Record Type	New Record	Previous Record
Galveston	Jan. 2nd	Rainfall	1.56"	1.16" in 1999
City of Houston	Jan. 8th	High Max Temperature	79°	79° in 1957
Houston Hobby	Jan. 23rd	Snowfall	T	0.00 in 2018





# **February Outlook**

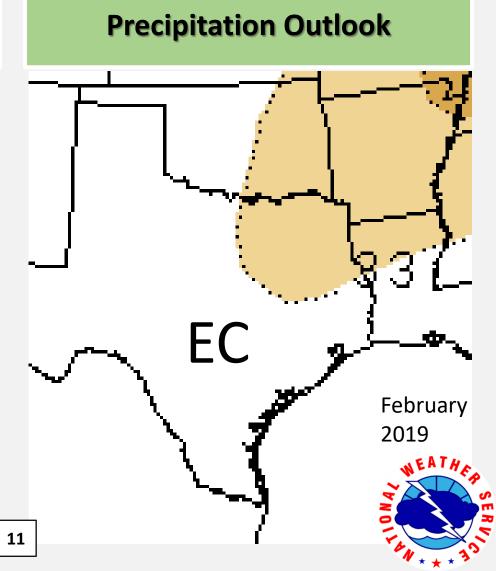
For February, the latest outlook from the Climate Prediction Center (CPC) calls for a 35% chance of below normal temperatures, a 32% chance of above normal temperatures and a 33% chance of normal temperatures across Southeast Texas. The precipitation outlook also calls for a 33.3% chance of above normal rainfalls, a 33.3% chance of near normal rainfall and a 33.3% chance of below normal rainfall. EC labeled across both images stands for "equal chances."

Site	Average Temp(°F)	Normal High (°F)	Normal Low (°F)
Galveston	57.6	64.3	50.9
Houston Hobby	57.3	66.0	48.5
City of Houston	56.4	66.3	46.5
College Station	54.6	64.8	44.4

**Temperature Outlook** 

Site	Normal Monthly Precipitation (in.)
Galveston (GLS)	2.57
Houston Hobby (HOU)	3.21
City of Houston (IAH)	3.20
College Station (CLL)	2.85

# E C 33 February 2019



# **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 Sante 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 \$\\ 981\$ to 2000 period.