

NWS Houston, Texas August 2021 Regional Climate Summary

Produced by Jimmy Fowler



...Lackluster Month for Precipitation, but Abnormally Warm...

The month of August was around one to two degrees above normal with overnight temperatures south of I-10 being exceptionally warm. The warm overnight temperatures meant that Galveston and Houston-Hobby both ended up in the top 5 warmest Augusts on record despite daytime temperatures staying relatively near normal. Much of the area received below normal precipitation amounts, but sea breeze precipitation brought some pockets of above normal precipitation near the coast.

Photo Credit:
NWS HGX Meteorologist
Jimmy Fowler

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 – 11 | Daily Record Reports |
| 12 | Drought Monitor |
| 13 | Climate Primary Site History |



By the Numbers: August 2021

| Location (records started) | Average Temp | Ranking | Total Rainfall | Ranking |
|----------------------------------------|-----------------|--------------------------|----------------|--------------------------|
| City of Houston, TX (1888) | 86.0°F | 16 th Warmest | 0.83" | 13 th Driest |
| Houston Hobby, TX (1930) | 87.0°F | 3 rd Warmest | 3.86" | 52 th Driest |
| City of Galveston, TX (1871) | 86.6°F | 5 th Warmest | 3.50" | 75 th Driest |
| City of College Station, TX (1882) | 85.4°F | 51 st Warmest | 2.19" | 50 th Wettest |
| Conroe, TX (1997) | 83.4°F | 12 th Warmest | 3.63" | 7 th Wettest |
| Huntsville, TX (1997) | 86.2°F | 6 th Warmest | 2.41" | 11 th Wettest |
| Sugar Land, TX (2000) | 86.5°F | 3 rd Warmest | 4.63" | 9 th Wettest |
| Palacios, TX (1943) | 85.4°F | 13 th Warmest | 4.78" | 25 th Wettest |
| Clover Field (Pearland), TX (1997) | 85.1°F | 11 th Warmest | 3.54" | 10 th Driest |
| David Wayne Hooks (Tomball), TX (1998) | 84.9°F | 8 th Warmest | 4.39" | 12 th Wettest |
| Angleton, TX (1998) | 83.7°F | 9 th Warmest | 3.27" | 14 th Driest |
| League City, TX (1990) | 85.0°F | 6 th Warmest | 3.16" | 13 th Driest |



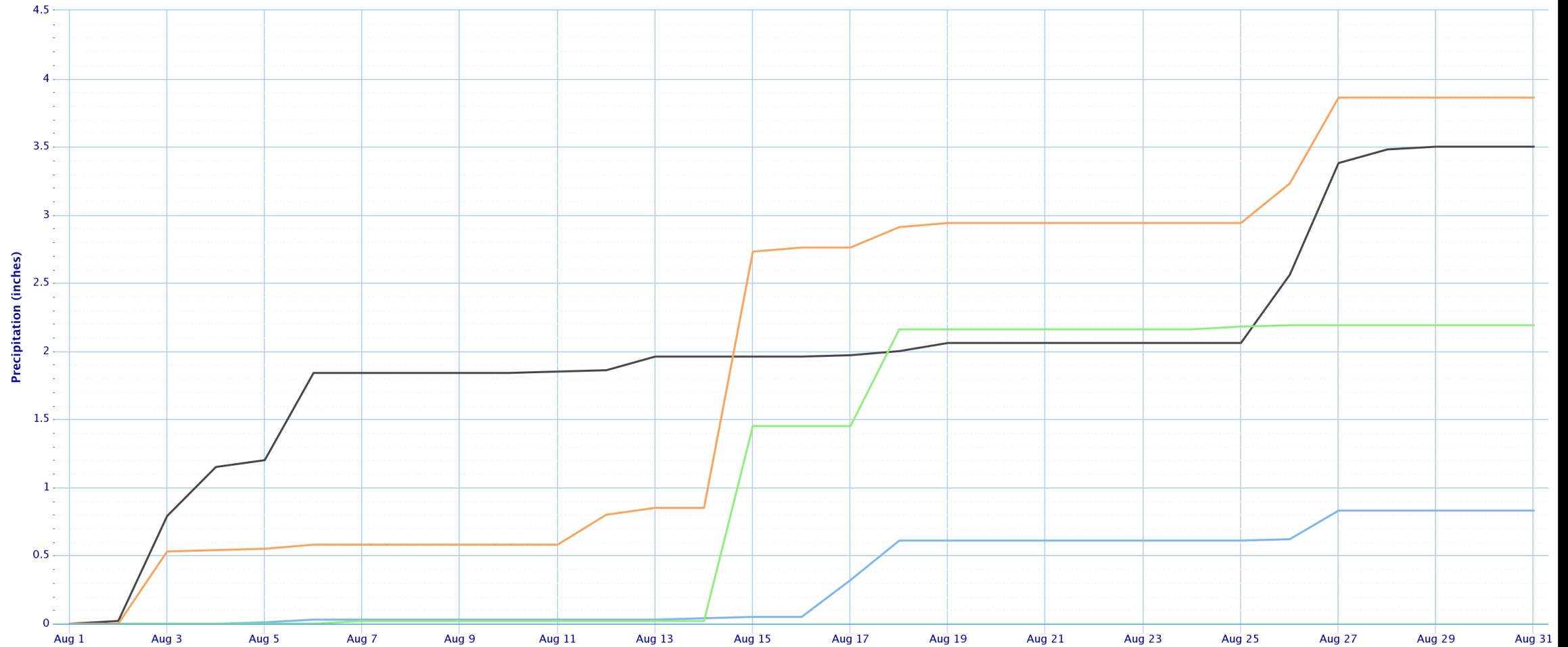
Precipitation

| Location | Total Precipitation (in.) | Departure from Normal (in.) | Number of Thunder Days | Maximum Daily Precipitation (in./date) | |
|-----------------------|---------------------------|-----------------------------|------------------------|----------------------------------------|------------------|
| Galveston (GLS) | 3.50 | -1.21 | 13 | 0.82 | 27 th |
| Houston Hobby (HOU) | 3.86 | -1.58 | 16 | 1.88 | 15 th |
| City of Houston (IAH) | 0.83 | -4.01 | 12 | 0.29 | 18 th |
| College Station (CLL) | 2.19 | -0.91 | 9 | 1.43 | 15 th |

Precipitation Accumulation Graph

Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



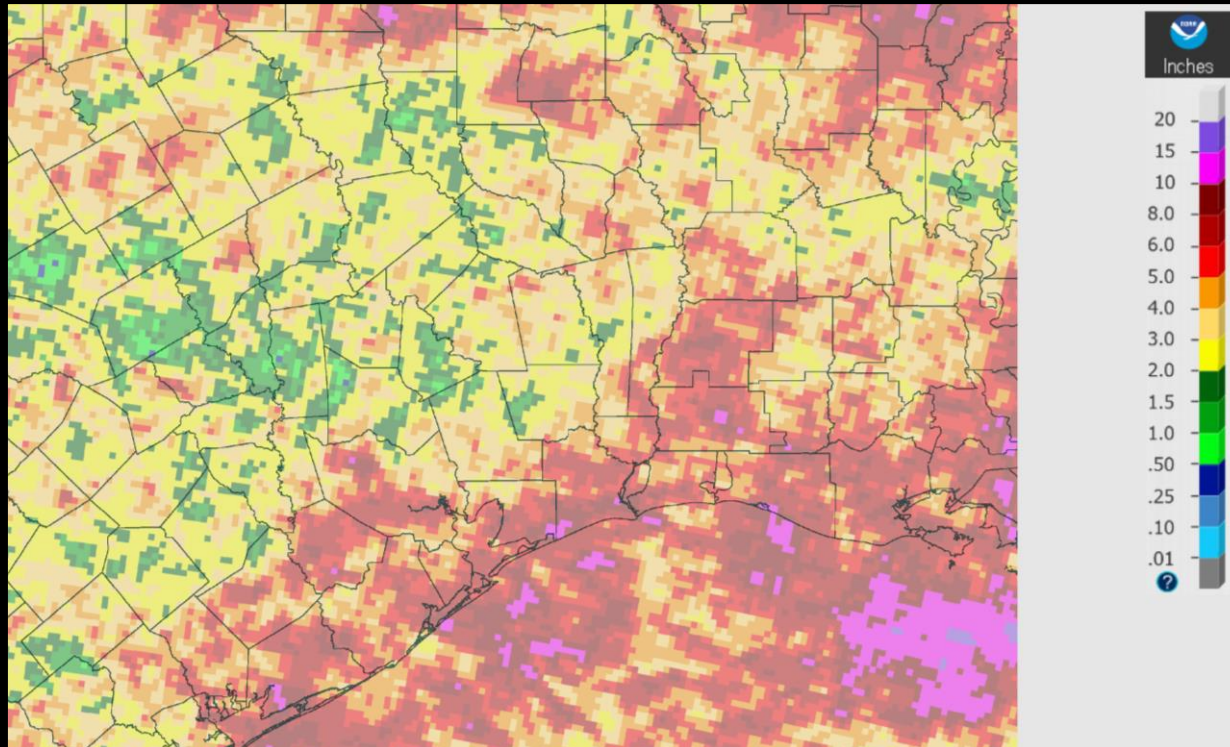
City of Houston

City of Galveston

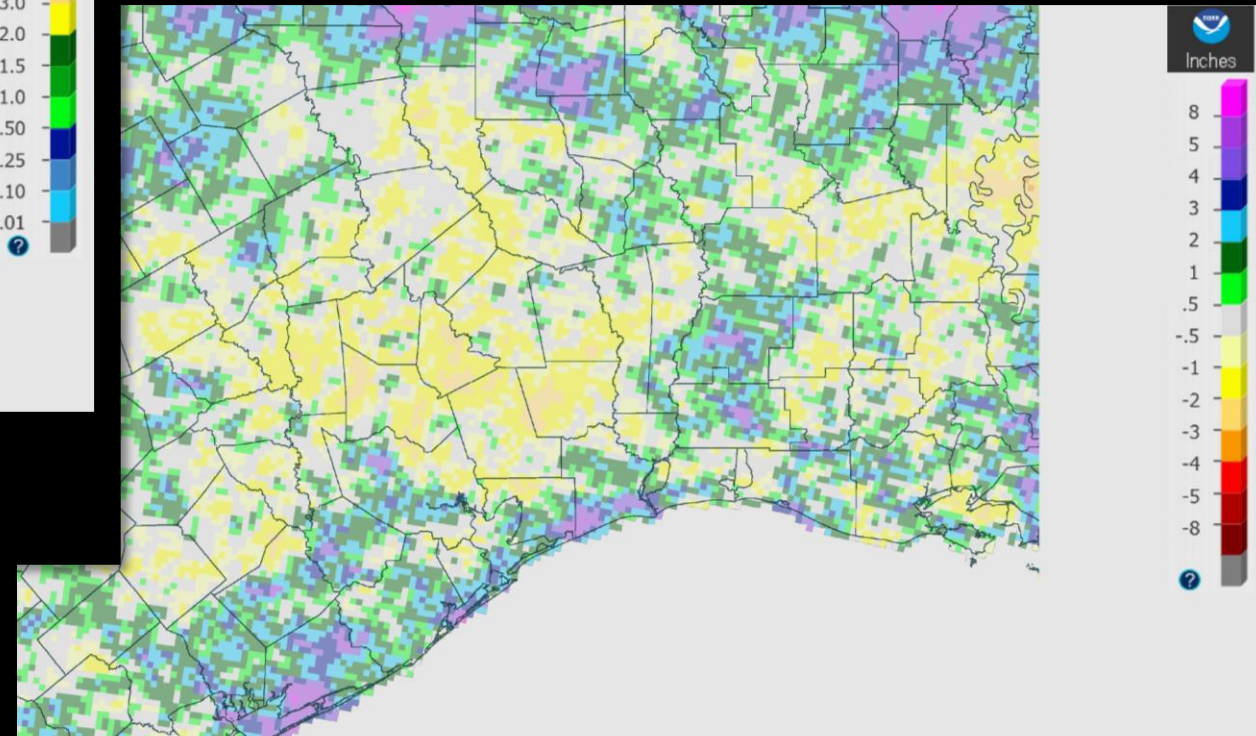
City of College Station

Houston-Hobby

Precipitation Maps



Monthly Total Precipitation (inches)



Monthly Departure from Normal Precipitation (inches)

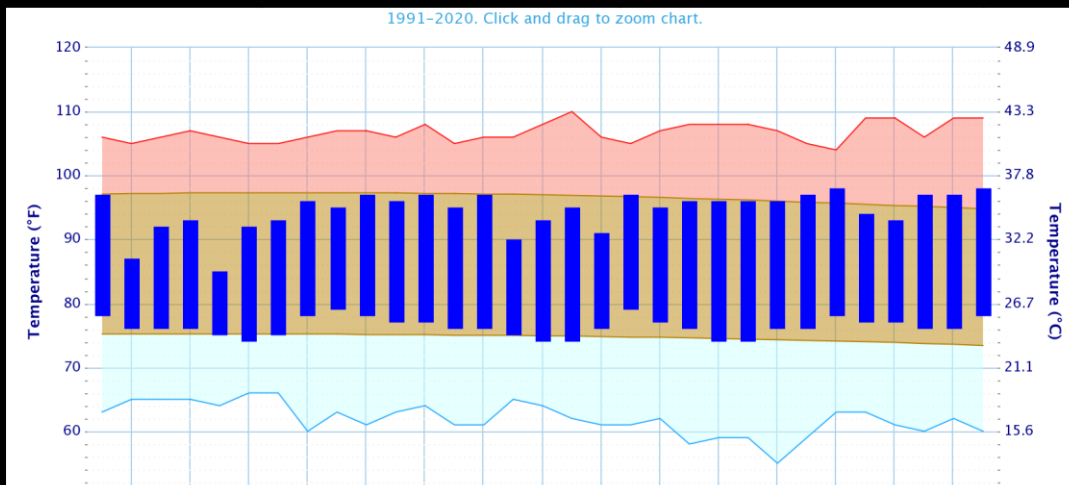
Temperature

| 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) | 91.7 | 81.6 | 86.6 | 85.9 | +0.7 | 97 on the 30 th | 76 on the 27 th & 6 th |
| Houston Hobby (HOU) | 94.8 | 79.2 | 87.0 | 85.1 | +1.9 | 98 on the 24 th , 30 th & 31 st | 73 on the 15 th |
| City of Houston (IAH) | 95.5 | 76.5 | 86.0 | 85.2 | +0.8 | 99 on the 31 st | 73 on the 23 rd |
| College Station (CLL) | 94.5 | 76.3 | 85.4 | 85.7 | -0.3 | 98 on the 26 th & 31 st | 74 on the 17 th , 22 nd & 23 rd |

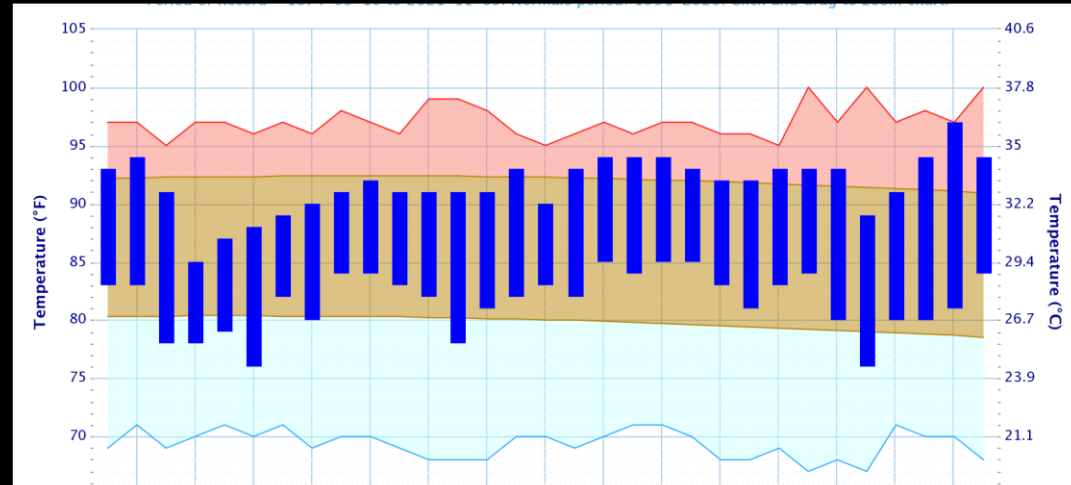
Temperature Charts

8

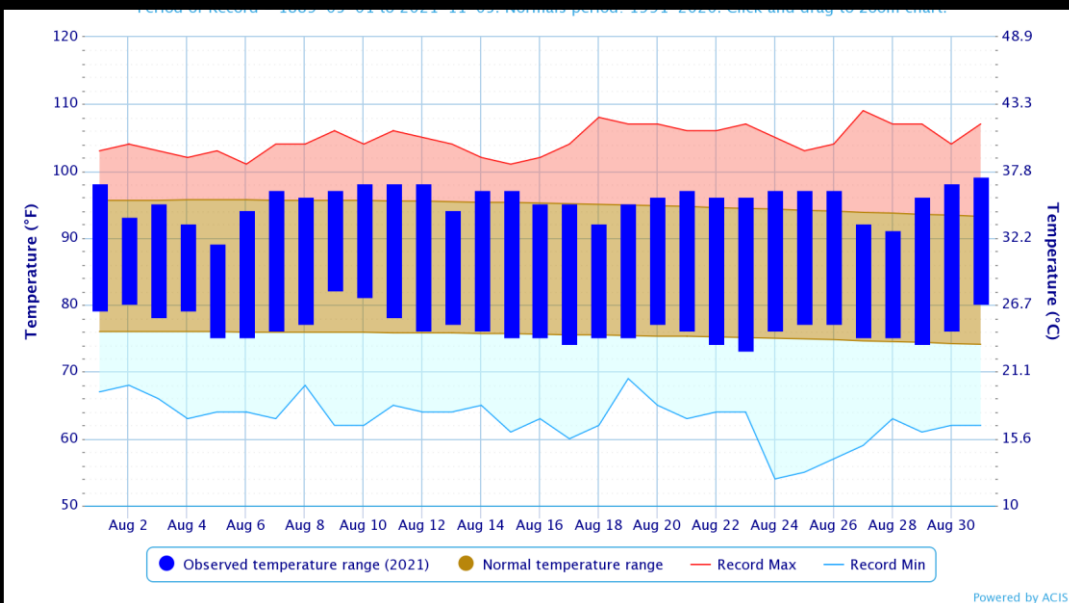
City of College Station



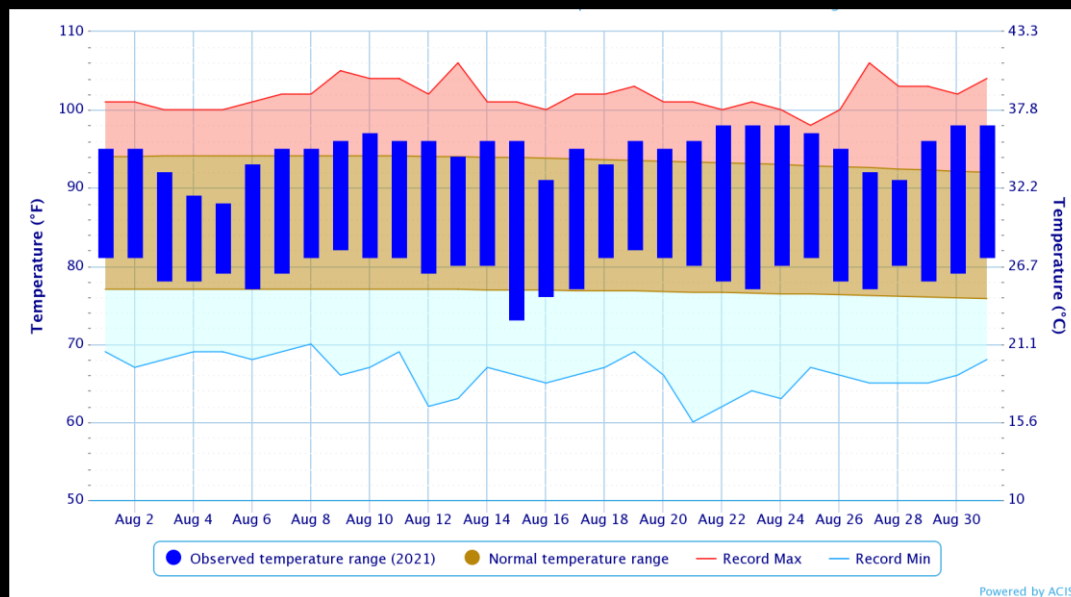
City of Galveston



City of Houston



Houston-Hobby



Daily Record Reports

| Site | Date | Record Type | New Record | Previous Record |
|-------------------------|-------------------------|-------------------|------------|-----------------|
| City of College Station | August 19 th | High Minimum Temp | 79° - T | 79° in 2010 |
| City of Houston | August 9 th | High Minimum Temp | 82° - T | 82° in 2019 |
| City of Houston | August 10 th | High Minimum Temp | 81° - T | 81° in 2011 |
| Houston-Hobby | August 1 st | High Minimum Temp | 80° - T | 80° in 2017 |
| Houston-Hobby | August 2 nd | High Minimum Temp | 81° | 80° in 2011 |
| Houston-Hobby | August 7 th | High Minimum Temp | 79° - T | 79° in 2016 |
| Houston-Hobby | August 8 th | High Minimum Temp | 81° | 79° in 2002 |
| Houston-Hobby | August 9 th | High Minimum Temp | 82° | 81° in 1980 |
| Houston-Hobby | August 10 th | High Minimum Temp | 81° - T | 81° in 1980 |
| Houston-Hobby | August 11 th | High Minimum Temp | 81° - T | 81° in 2020 |

There were
21 daily
records set
during the
month of
August.



High Max

Low Max

Precip

Snow

High Min

Low Min

Key



Daily Record Reports

| Site | Date | Record Type | New Record | Previous Record |
|-------------------|-------------------------|-------------------|------------|-----------------|
| Houston-Hobby | August 18 th | High Minimum Temp | 81° - T | 81° in 2019 |
| Houston-Hobby | August 19 th | High Minimum Temp | 82° | 80° in 2017 |
| Houston-Hobby | August 20 th | High Minimum Temp | 81° | 80° in 2011 |
| Houston-Hobby | August 24 th | High Minimum Temp | 80° - T | 80° in 2009 |
| Houston-Hobby | August 25 th | High Minimum Temp | 81° | 79° in 2020 |
| Houston-Hobby | August 28 th | High Minimum Temp | 80° - T | 80° in 2012 |
| City of Galveston | August 20 th | High Minimum Temp | 85° - T | 85° in 1994 |
| City of Galveston | August 21 st | High Minimum Temp | 85° | 84° in 2019 |
| City of Galveston | August 22 nd | High Minimum Temp | 83° - T | 83° in 2015 |
| City of Galveston | August 26 th | High Minimum Temp | 84° - T | 84° in 1987 |

There were
21 daily
records set
during the
month of
August.



Key

High Max

Low Max

Precip

Snow

High Min

Low Min



Daily Record Reports

| Site | Date | Record Type | New Record | Previous Record |
|-------------------|-------------------------|-------------------|------------|-----------------|
| City of Galveston | August 30 th | High Maximum Temp | 97° - T | 97° in 1954 |

There were
21 daily
records set
during the
month of
August.



High Max

Low Max

Precip

Key

Snow

High Min

Low Min



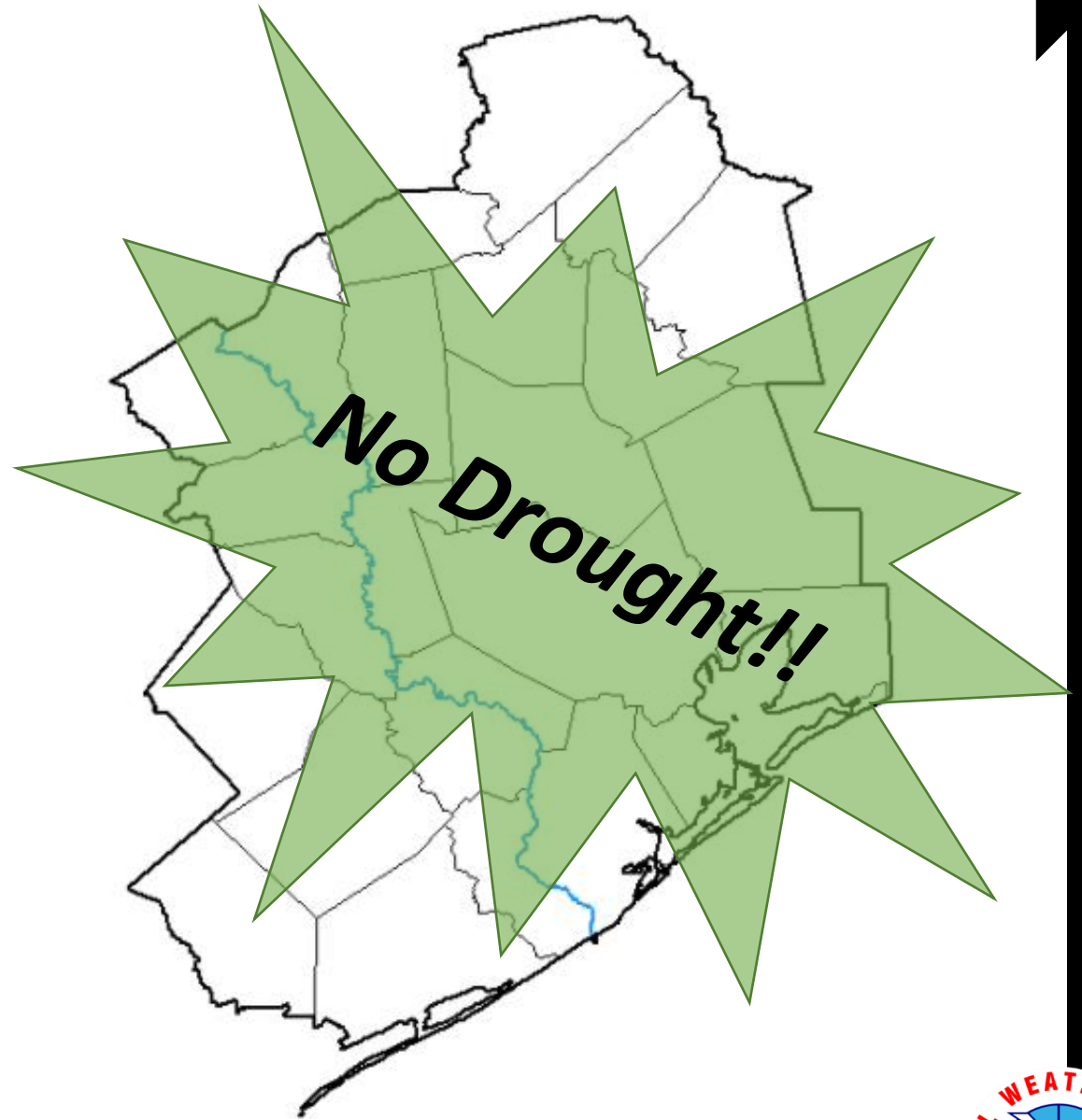
Drought Monitor

As of August 31st

Despite less than normal precipitation, previous months of above normal rainfall kept drought out of the area in August.



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



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.

