

# NWS Houston, Texas May 2021 Regional Climate Summary

**Produced by Jimmy Fowler**

***...An Exceptionally Wet Month led to Below Normal Temperatures and the Eradication of the Drought...***

*Numerous passing disturbances through the month and a stalled upper level low over Texas at the end of the month brought multiple days of heavy rainfall across the region. Between 6 and 17 inches of rain fell across the area through the month. Localized river and flash flooding occurred during the month. The drought is no more with the entire region having a surplus of moisture now. The overcast skies led to below normal temperatures for much of the region.*

*Also included in this summary is not only the outlook for the month of June, but also the outlooks for the summer and tropical seasons from the Climate Prediction Center. This is the first Regional Climate Summary to include the newly released 1991-2020 Normals. This tropical season looks to be another busy one with a sixty percent chance of an above normal season. The new Atlantic Tropical Cyclone Normals are also included in this summary.*

Photo Credit:  
NWS HGX Meteorologist  
Jimmy Fowler

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# By the Numbers: May 2021



Location (records started)	Average Temp	Ranking	Total Rainfall	Ranking
City of Houston, TX (1888)	76.3°F	55 <sup>th</sup> Warmest	11.71"	11 <sup>th</sup> Wettest
Houston Hobby, TX (1930)	77.7°F	21 <sup>st</sup> Warmest	10.38"	8 <sup>th</sup> Wettest
City of Galveston, TX (1871)	77.4°F	36 <sup>th</sup> Warmest	6.57"	20 <sup>th</sup> Wettest
City of College Station, TX (1882)	75.7°F	50 <sup>th</sup> Warmest	7.20"	30 <sup>th</sup> Wettest
Conroe, TX (1997)	74.9°F	15 <sup>th</sup> Warmest	11.61"	3 <sup>rd</sup> Wettest
Huntsville, TX (1997)	75.4°F	7 <sup>th</sup> Coolest	6.19"	5 <sup>th</sup> Wettest
Sugar Land, TX (2000)	78.0°F	8 <sup>th</sup> Warmest	13.51"	2 <sup>nd</sup> Wettest
Palacios, TX (1943)	76.1°F	51 <sup>st</sup> Warmest	16.97"	Wettest on Record
Clover Field (Pearland), TX (1997)	78.0°F	10 <sup>th</sup> Warmest	8.01"	4 <sup>th</sup> Wettest
David Wayne Hooks (Tomball), TX (1998)	76.4°F	8 <sup>th</sup> Coolest	11.51"	2 <sup>nd</sup> Wettest
Angleton, TX (1998)	76.3°F	11 <sup>th</sup> Coolest	8.02"	3 <sup>rd</sup> Wettest
League City, TX (1990)	75.9°F	15 <sup>th</sup> Warmest	9.48"	7 <sup>th</sup> Wettest



# Precipitation

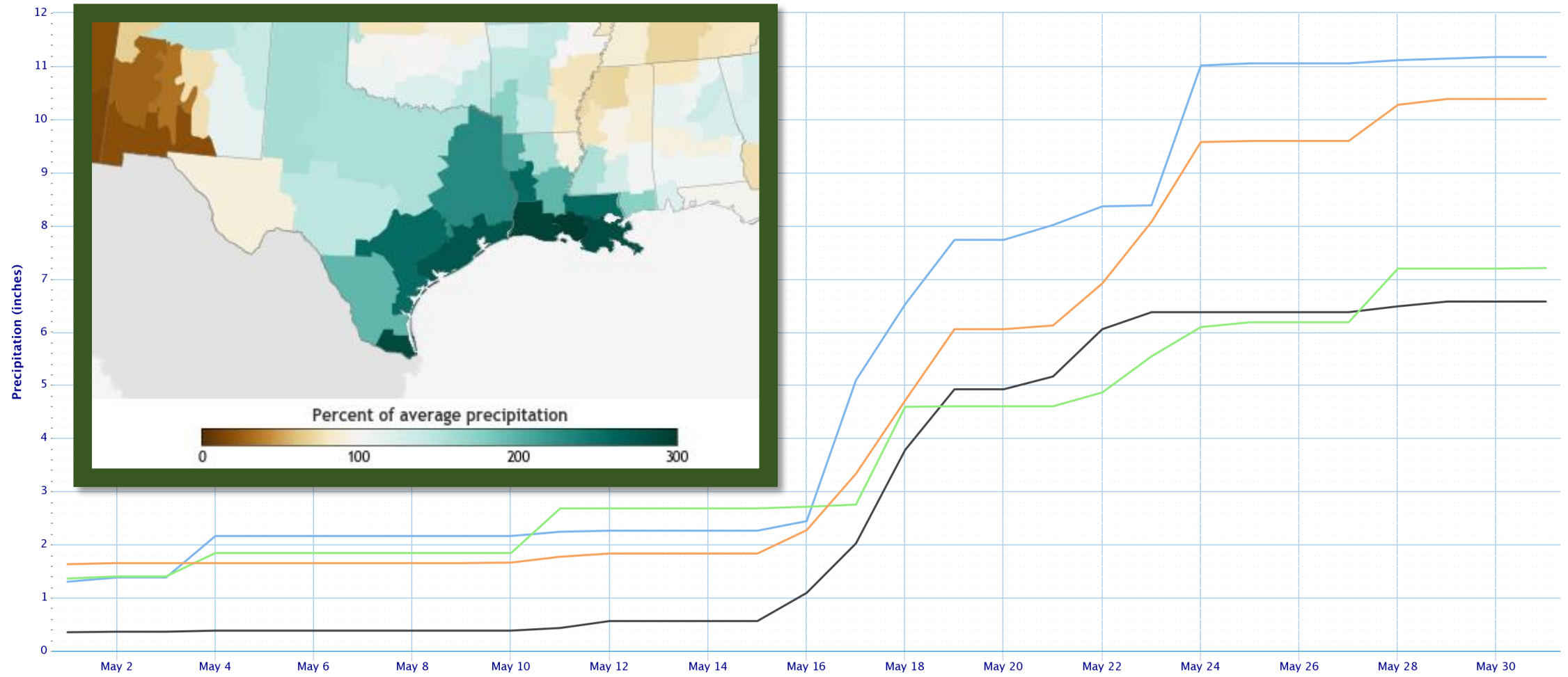
Location	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	6.57	+3.53	8	1.76	18 <sup>th</sup>
Houston Hobby (HOU)	10.38	+4.96	11	1.63	1 <sup>st</sup>
City of Houston (IAH)	11.17	+6.16	10	2.65	17 <sup>th</sup>
College Station (CLL)	7.20	+2.60	12	1.84	18 <sup>th</sup>

*Every location across the region saw above average precipitation for the month of May with multiple days when more than an inch of rain fell. The City of Houston saw over 11 inches of rain for the month which is about 200% of normal. Angleton was the highest NWS gauge with 16.97 inches. These extreme rainfall amounts produced localized flooding, but also completely wiped the drought out of the region.*

# Precipitation Accumulation Graph

## Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



City of Houston

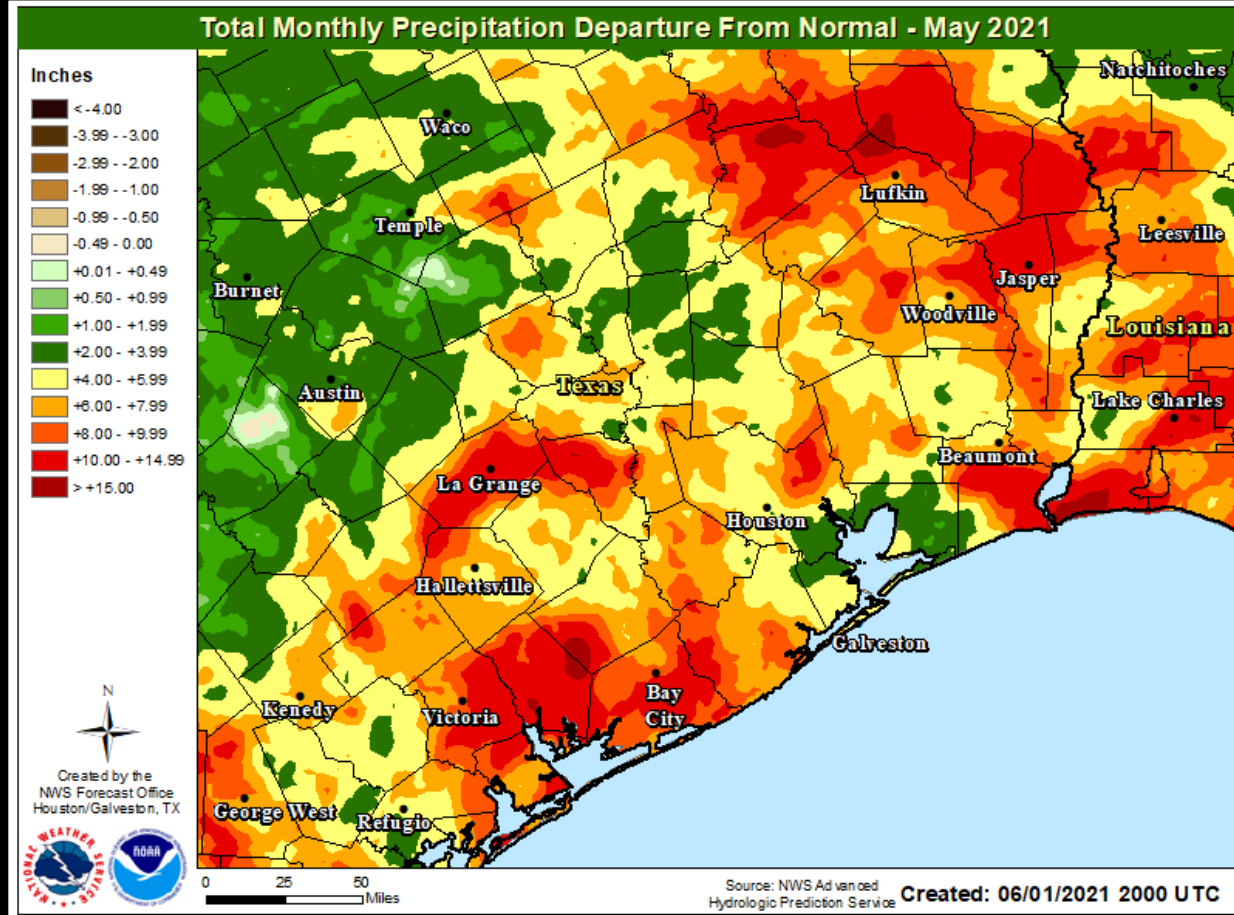
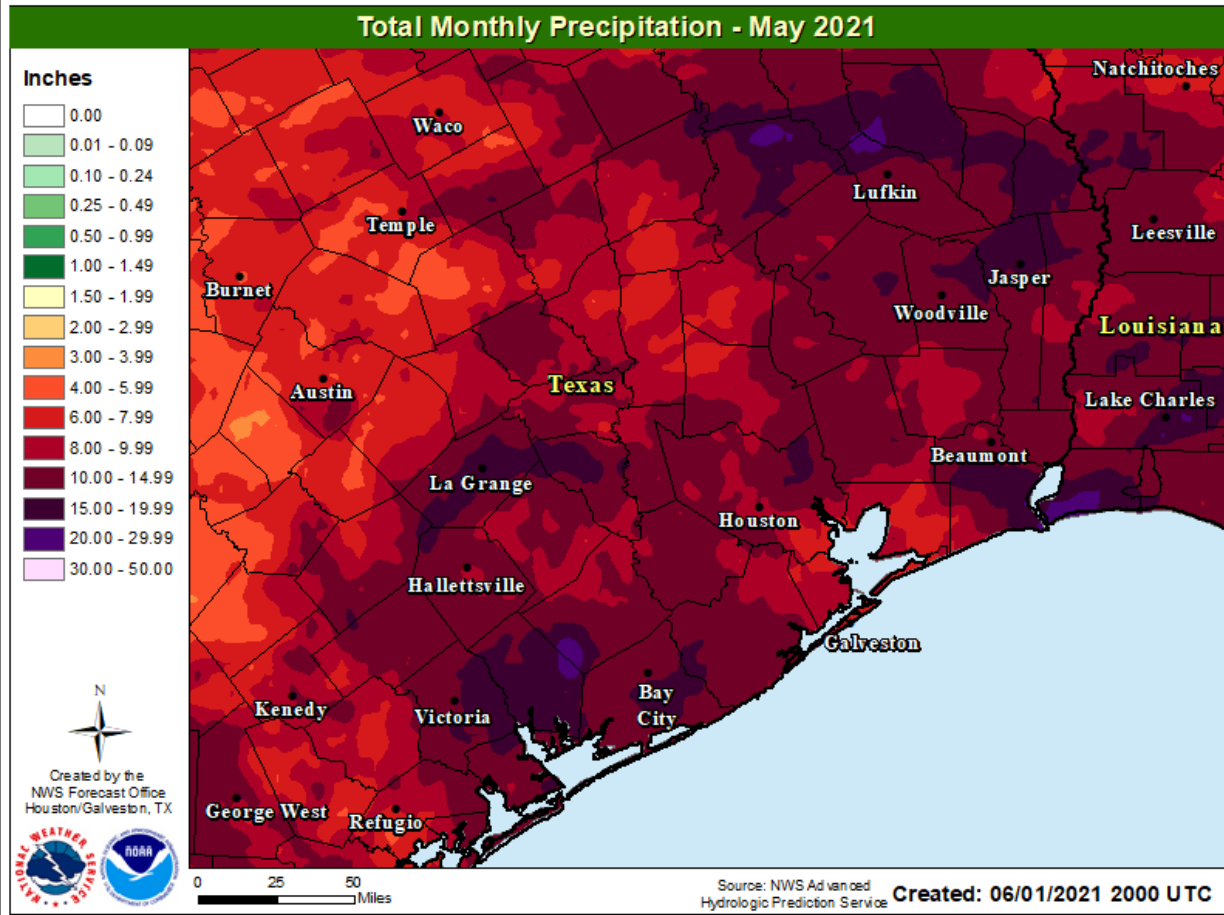
City of Galveston

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)	81.9	72.8	77.4	78.2	-0.8	86 on the 11 <sup>th</sup> & 29 <sup>th</sup>	65 on the 5 <sup>th</sup>
Houston Hobby (HOU)	85.0	70.5	77.7	77.6	+0.1	91 on the 29 <sup>th</sup>	63 on the 5 <sup>th</sup>
City of Houston (IAH)	76.3	84.7	67.8	77.4	-1.1	91 on the 27 <sup>th</sup> & 29 <sup>th</sup>	58 on the 5 <sup>th</sup>
College Station (CLL)	83.8	67.5	75.7	76.4	-0.7	90 on the 11 <sup>th</sup> & 26 <sup>th</sup>	57 on the 5 <sup>th</sup>

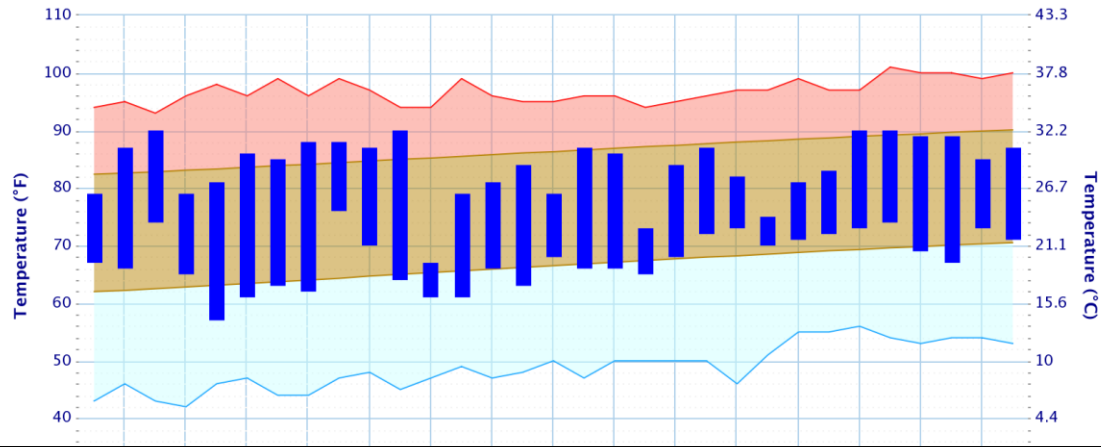
*Overcast skies with multiple days of precipitation kept temperatures on the cooler side. The first 90 degree weather of the year occurred this month.*



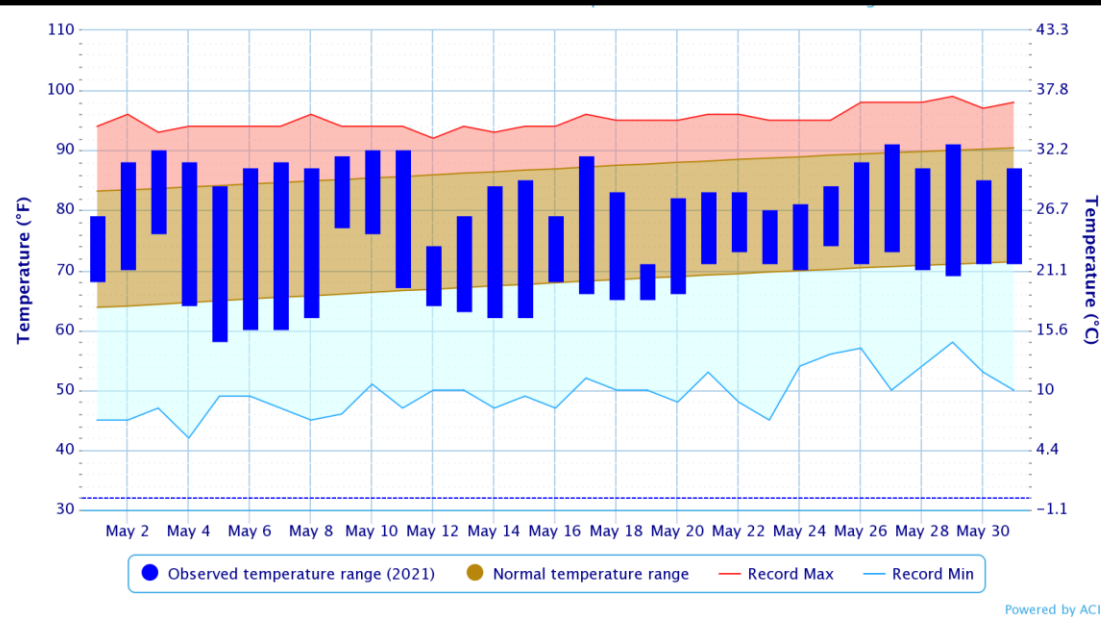
# Temperature Charts

### City of College Station

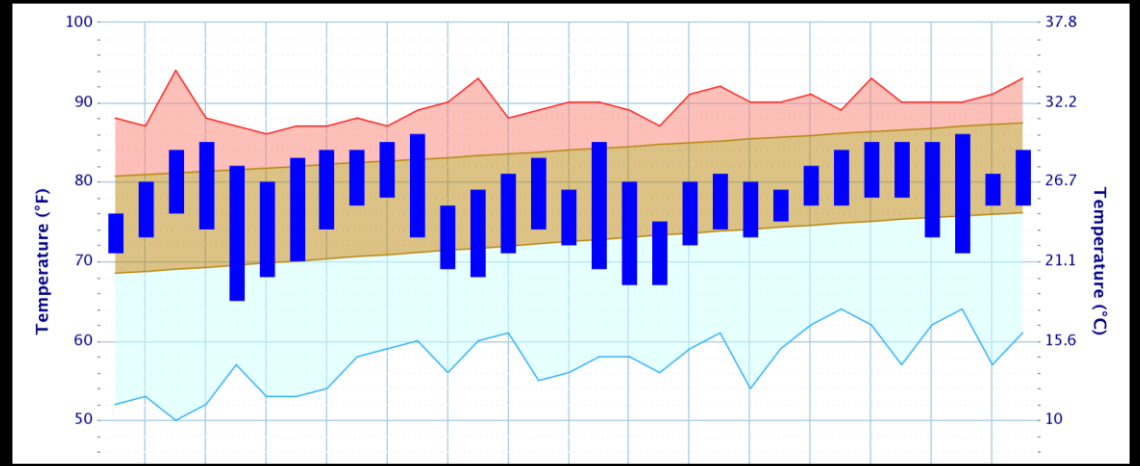
period: 1991–2020. Click and drag to zoom chart.



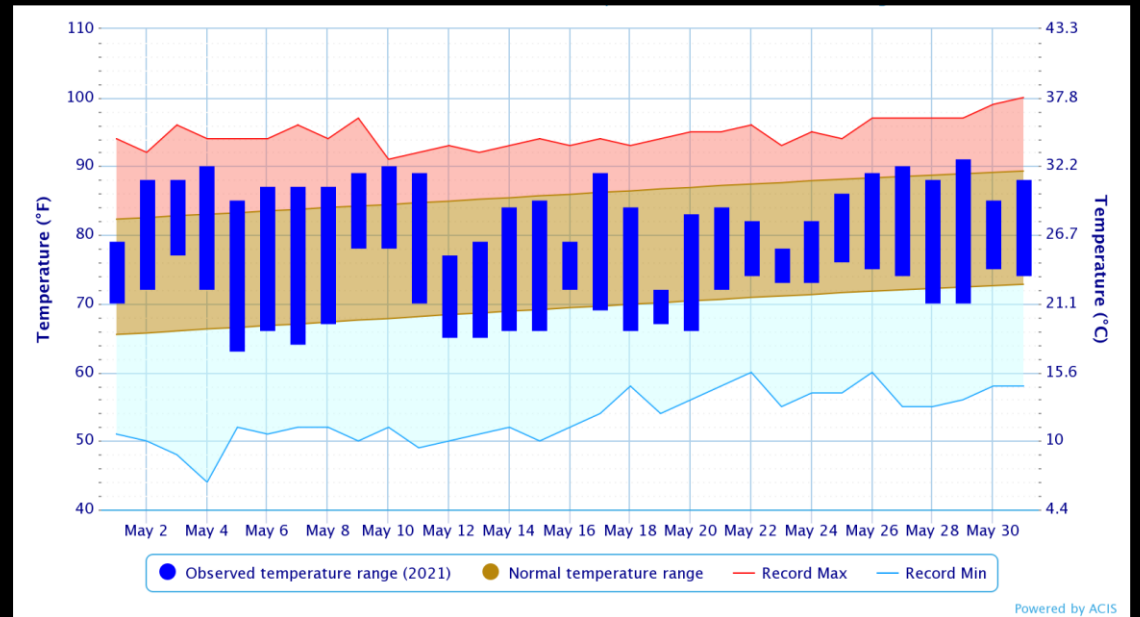
### City of Houston



### City of Galveston



### Houston-Hobby





# Daily Record Reports

Site	Date	Record Type	New Record	Previous Record
City of College Station	May 9 <sup>th</sup>	High Minimum Temp	76° - T	76° in 1933
City of College Station	May 12 <sup>th</sup>	Low Maximum Temp	67° - T	67° in 1927
City of Houston	May 9 <sup>th</sup>	High Minimum Temp	77° - T	77° in 2002
Houston-Hobby	May 9 <sup>th</sup>	High Minimum Temp	78°	77° in 2015
Houston-Hobby	May 10 <sup>th</sup>	High Minimum Temp	78°	77° in 2015
Houston-Hobby	May 19 <sup>th</sup>	Low Maximum Temp	72° - T	72° in 1952
City of Galveston	May 3 <sup>rd</sup>	High Minimum Temp	76° - T	76° in 2012
City of Galveston	May 10 <sup>th</sup>	High Minimum Temp	78° - T	78° in 2002

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



High Max

Low Max

Precip

Snow

High Min

Low Min

Key

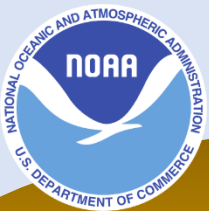
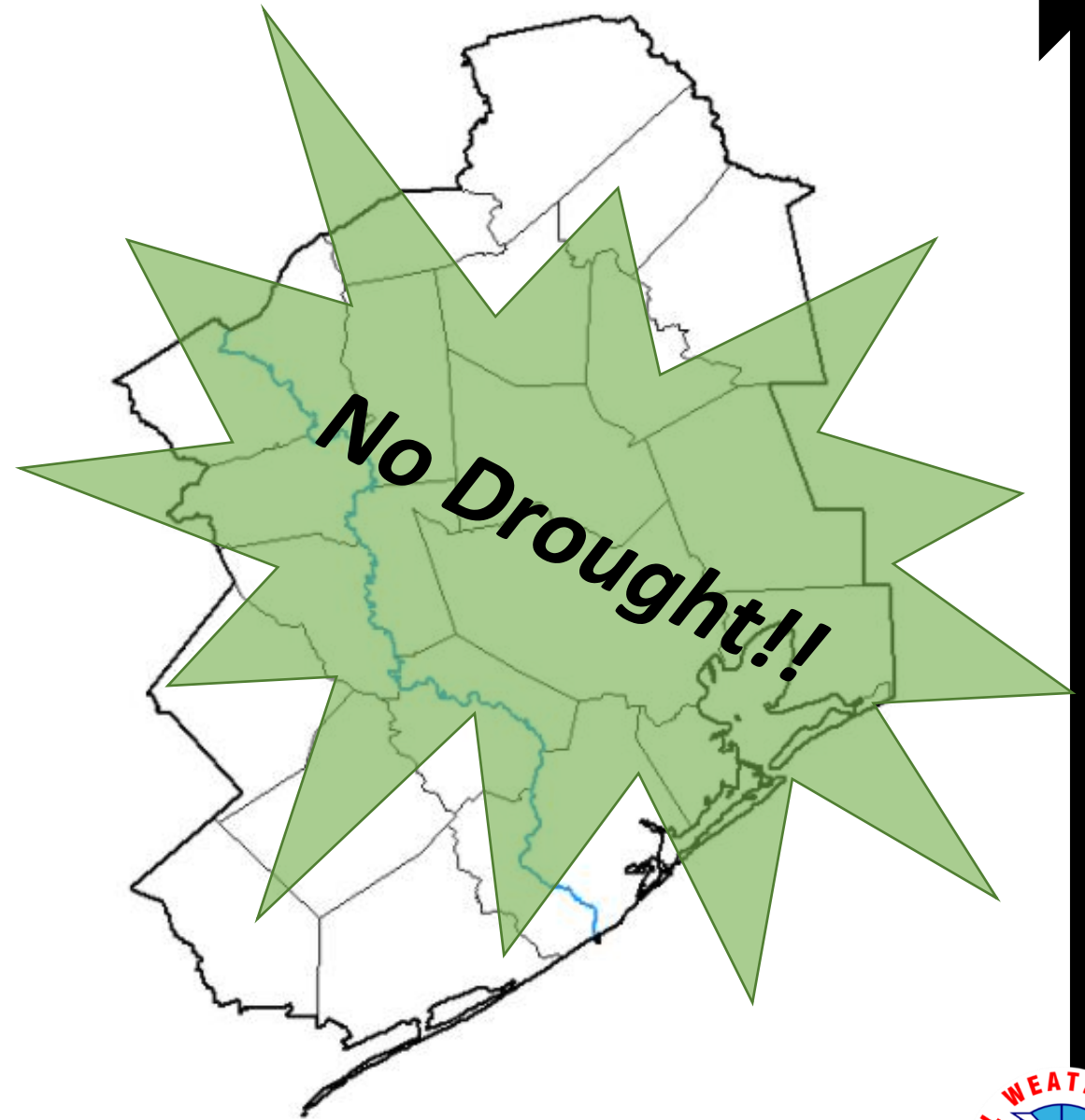


# Drought Monitor

## As of June 1<sup>st</sup>

*An abundance of precipitation has completely wiped out drought conditions across the area and no drought is expected to form over the next month.*

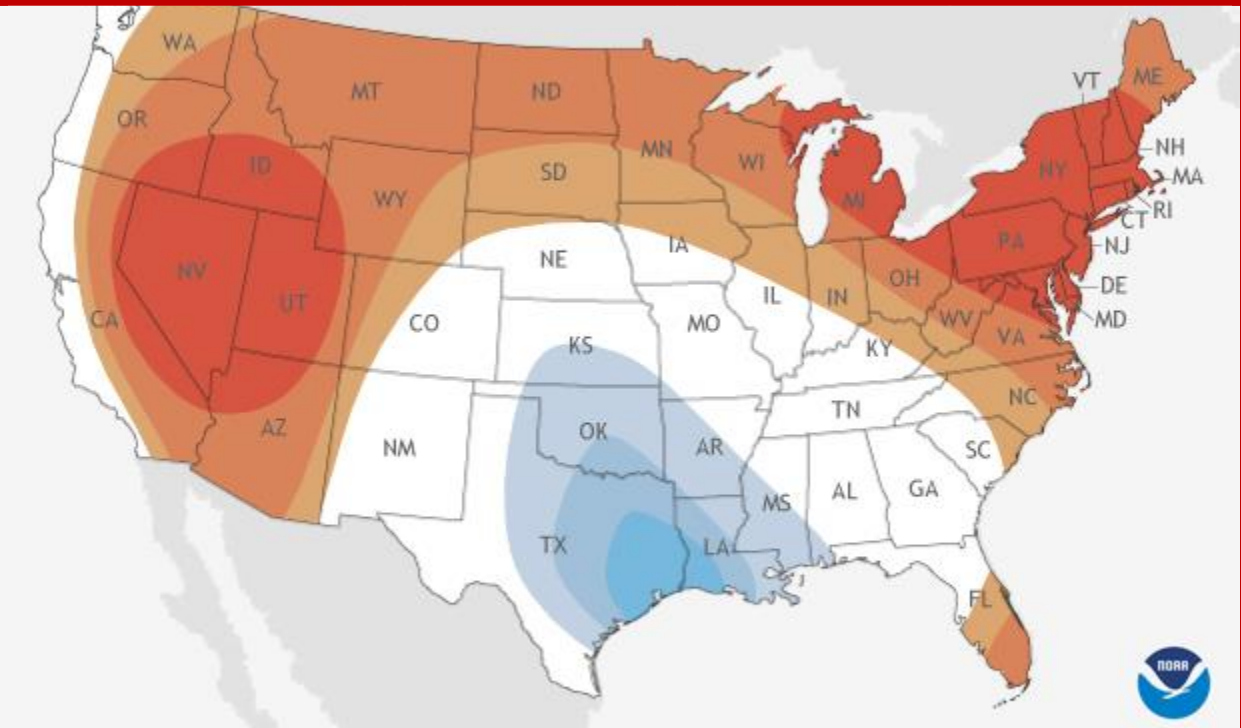
via <https://droughtmonitor.unl.edu/>



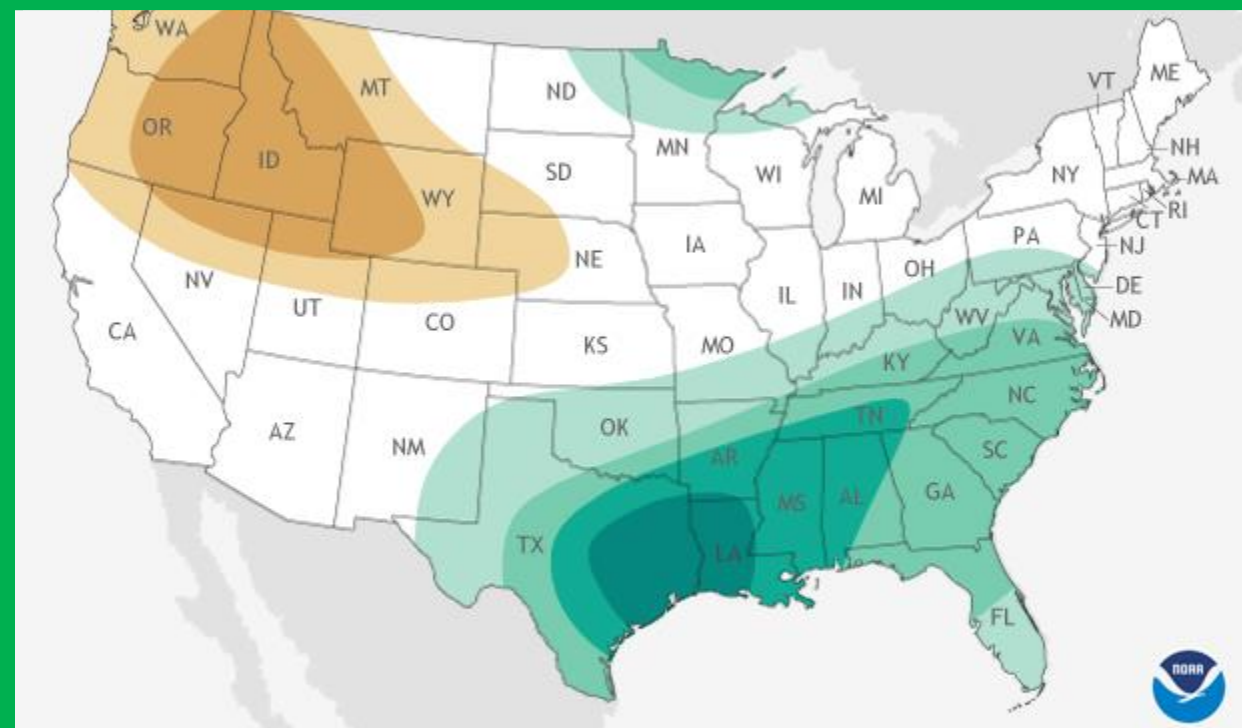
# June Outlook

Location	Average Temp(°F)	Normal High (°F)	Normal Low (°F)
Galveston	83.8	89.5	78.1
Houston Hobby	82.9	91.0	74.9
City of Houston	83.0	92.3	73.7
College Station	82.6	92.2	73.0

Location	Normal Monthly Precipitation (in.)
Galveston	4.32
Houston Hobby	6.09
City of Houston	6.00
College Station	1.98



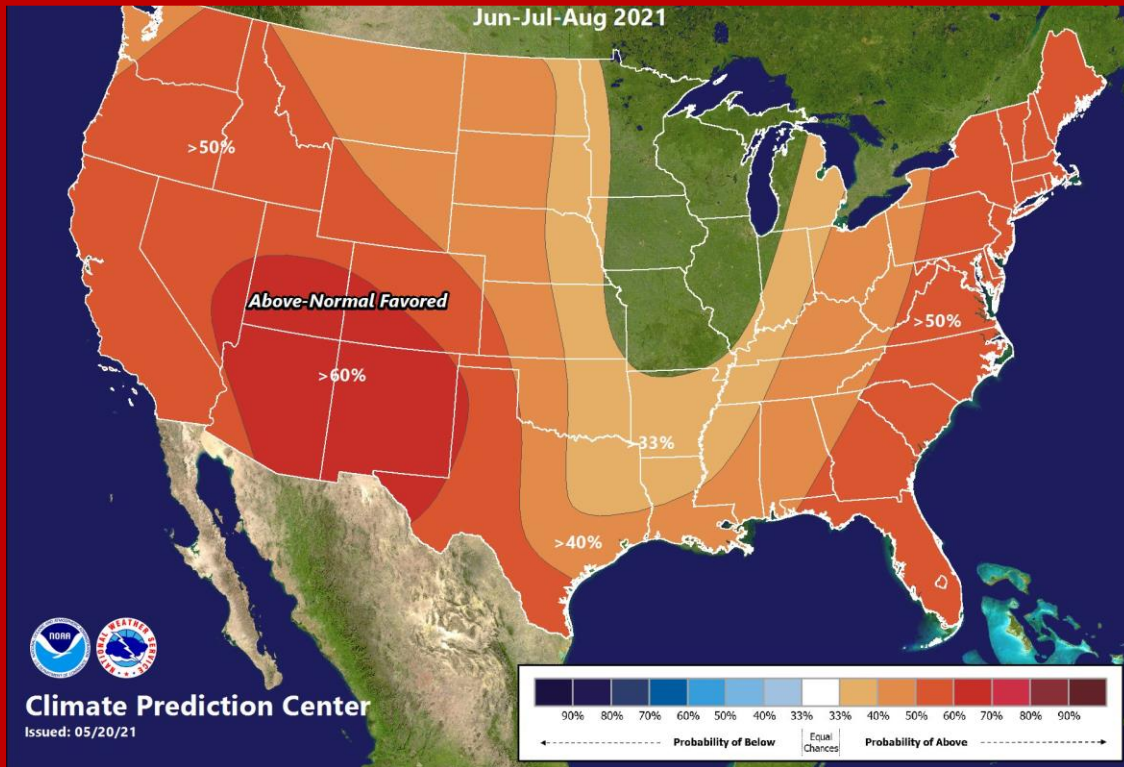
Temperature Outlook for June 2021  
 Issued 31 May 2021  
 Probability (percent chance)  
 cooler than normal    equal chances    warmer than normal  
 80 70 60 50 40 33    33 40 50 60 70 80  
 Climate.gov Data: CPC



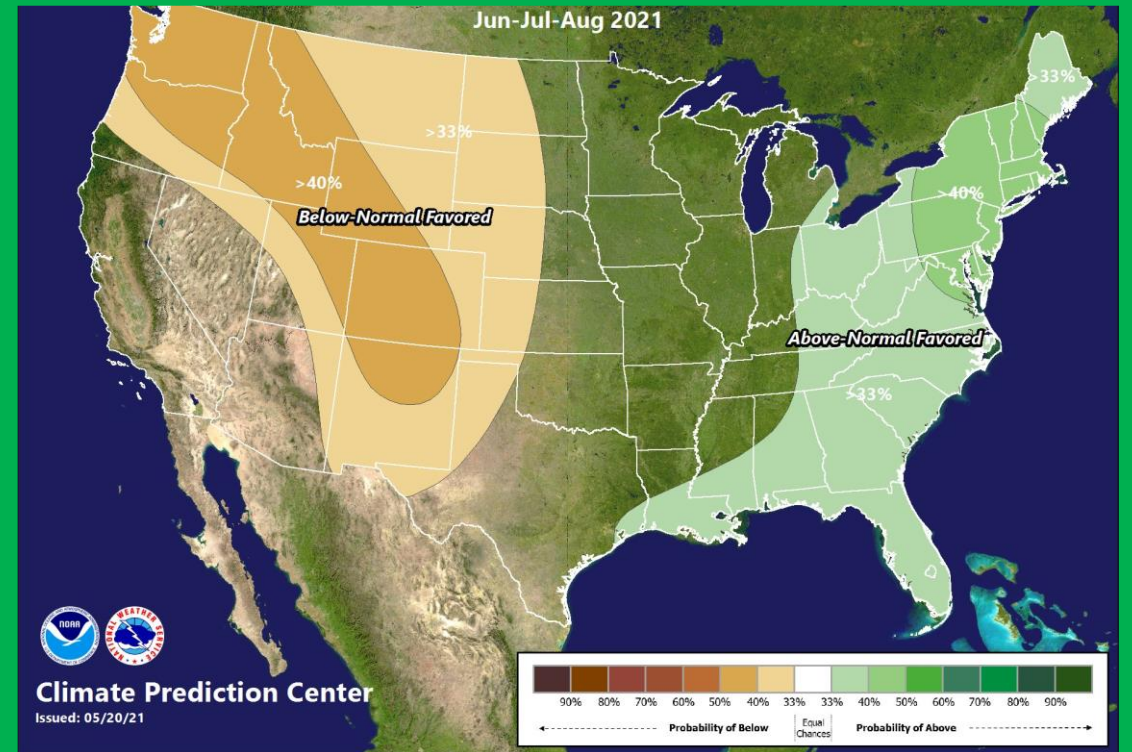
Precipitation Outlook for June 2021  
 Issued 31 May 2021  
 Probability (percent chance)  
 drier than normal    equal chances    wetter than normal  
 80 70 60 50 40 33    33 40 50 60 70 80  
 Climate.gov Data: CPC

# Summer Outlook (June – August)

## Temperature Outlook

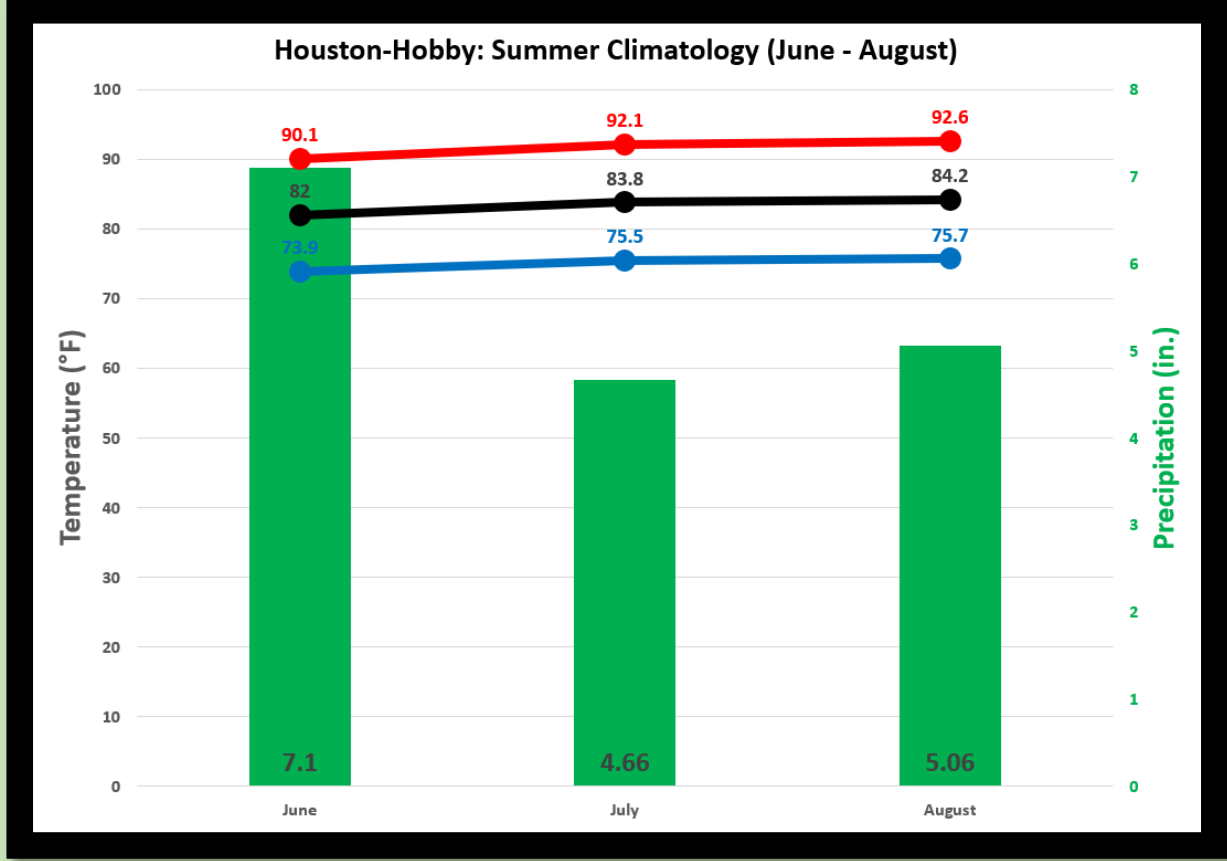
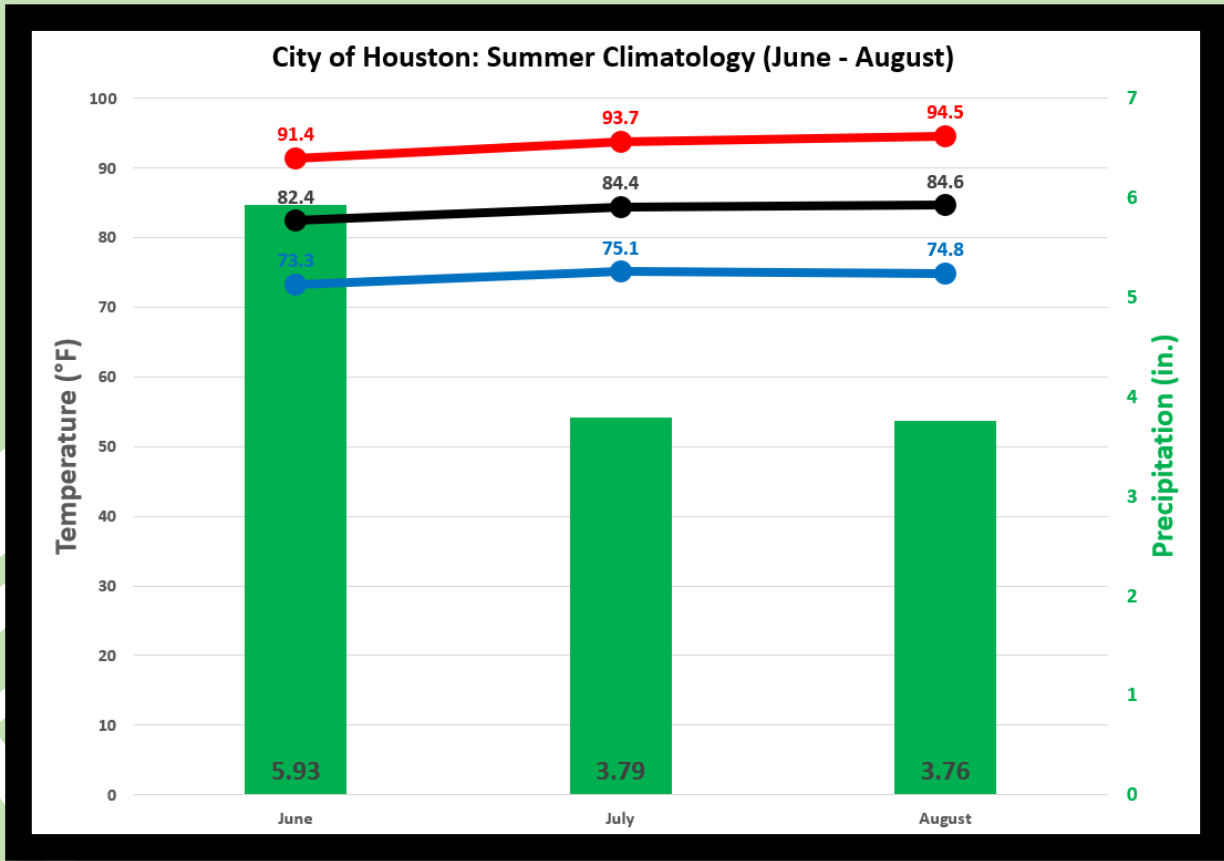


## Precipitation Outlook



# Summer Climatology (June – August)

## 1991 – 2020 Normals



### Legend

Green Bar: Average Precipitation

Red Line: Average Max Temperature

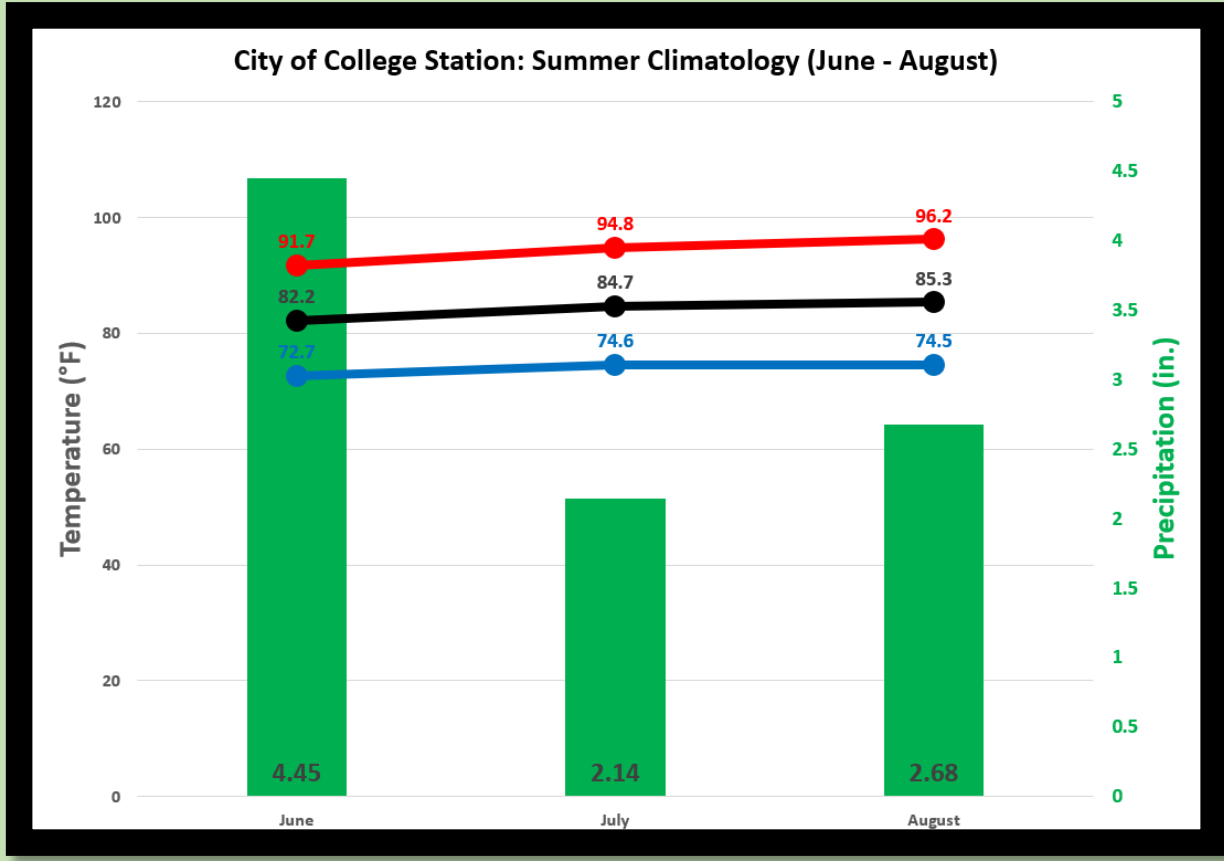
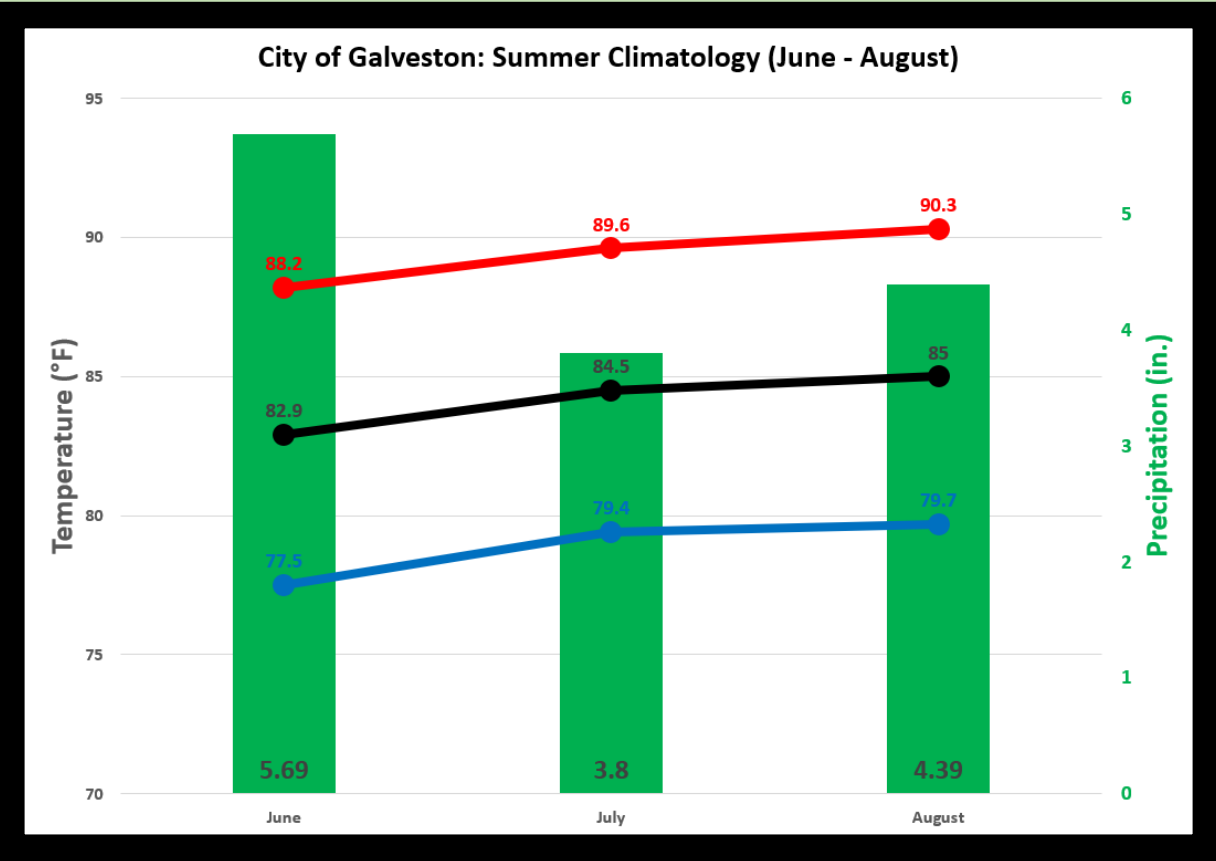
Black Line: Average Temperature

Blue Line: Average Min Temperature



# Summer Climatology (June – August)

## 1991 – 2020 Normals



### Legend

Green Bar: Average Precipitation

Red Line: Average Max Temperature

Black Line: Average Temperature

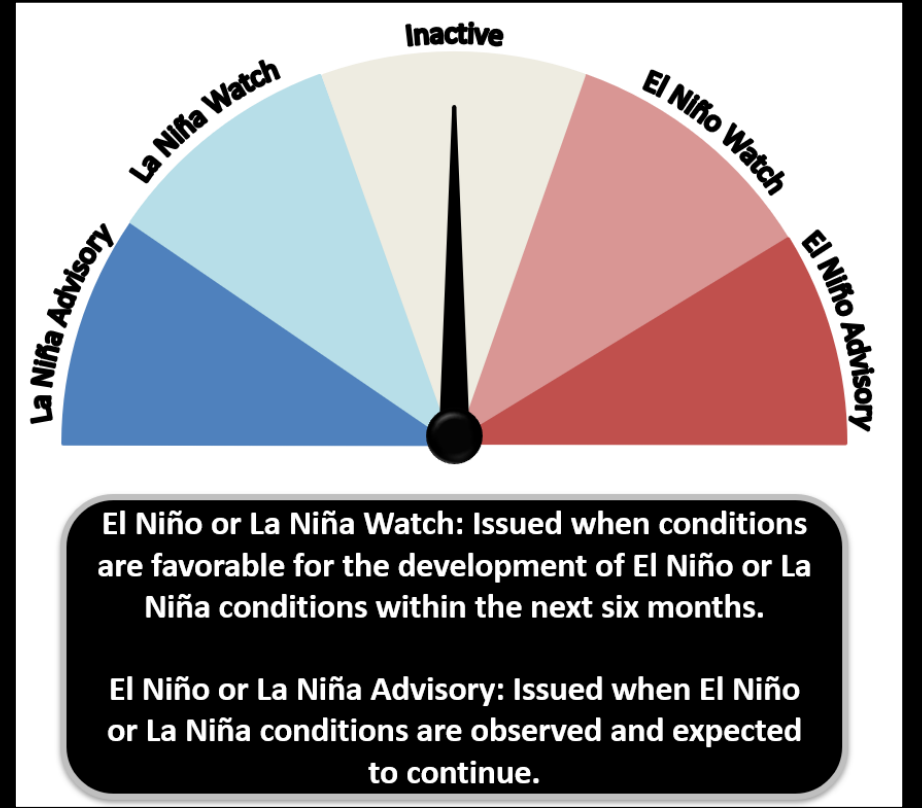
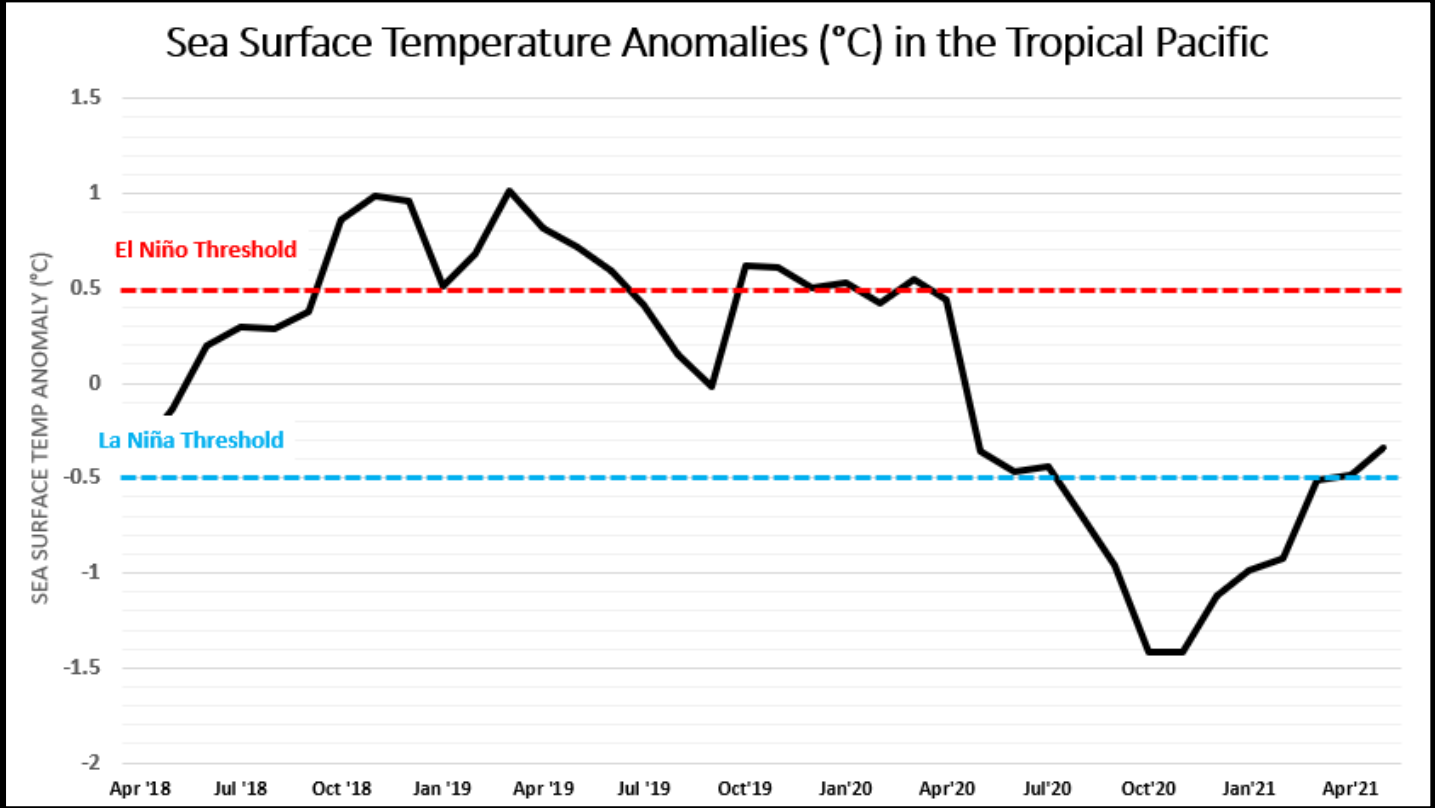
Blue Line: Average Min Temperature



## Current ENSO Phase: Neutral

### The Climate Prediction Center's ENSO Forecast: ENSO-Neutral Continues

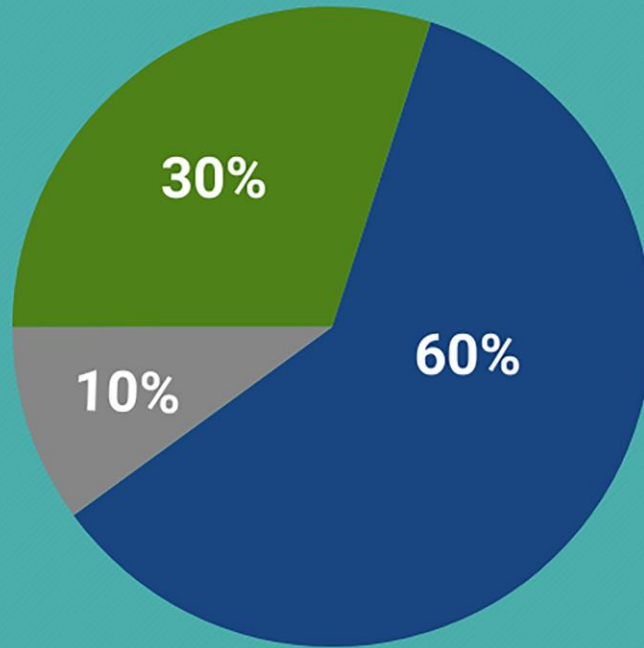
- There is a 78% chance of ENSO-Neutral conditions continuing through the Summer
- There is a 50% chance of ENSO-Neutral conditions continuing through the Fall



# 2021 Hurricane Season Outlook



## 2021 Atlantic Hurricane Season Outlook



■ Above-normal   ■ Near-normal   ■ Below-normal season

Season probability

Named storms

13-20

Hurricanes

6-10

Major hurricanes

3-5



# 1991-2020 Hurricane Normals

## 'Average' Atlantic Hurricane Season

\* Effective 2021

**1981-2010**

**12 Named Storms  
6 Hurricanes  
3 Major Hurricanes**



**1991-2020**

**14 Named Storms  
7 Hurricanes  
3 Major Hurricanes**

\* Numbers for an average season reflect the climate record for tropical storms and hurricanes and use the most recent 3 decades as the period of reference. More at: <http://bit.ly/NOAAHurricaneSeasonAverages>



**NOAA**

Be prepared: Visit [hurricanes.gov](http://hurricanes.gov) and follow @NWS and @NHC\_Atlantic on Twitter.

Issued 4/9/21

# 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.*

