

# NWS Houston, Texas April 2021 Regional Climate Summary

**Produced by Jimmy Fowler**

## ***...Drought Conditions Shrink due to Above Average Rainfall...***

*Multiple low pressure systems moved through the area bringing locally heavy rainfall across the northern half of the area. The increased rainfall kept temperatures fairly close to normal to slightly below normal. The rainfall helped alleviate the drought conditions across the area and D3 – Extreme Drought no longer being reported. The CPC has ended the La Nina Advisory with ENSO-Neutral conditions expected to continue through the summer.*

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# By the Numbers: April 2021



Location (records started)	Average Temp	Ranking	Total Rainfall	Ranking
City of Houston, TX (1888)	68.6°F	55 <sup>th</sup> Coolest	2.54"	59 <sup>th</sup> Driest
Houston Hobby, TX (1930)	70.6°F	60 <sup>th</sup> Coolest	2.01"	53 <sup>rd</sup> Wettest
City of Galveston, TX (1871)	70.7°F	40 <sup>th</sup> Warmest	0.86"	29 <sup>th</sup> Driest
City of College Station, TX (1882)	67.7°F	49 <sup>th</sup> Coolest	3.29"	61 <sup>st</sup> Wettest
Conroe, TX (1997)	66.4°F	8 <sup>th</sup> Coolest	4.69"	3 <sup>rd</sup> Wettest
Huntsville, TX (1997)	67.4°F	10 <sup>th</sup> Coolest	8.03"	Wettest on Record
Sugar Land, TX (2000)	70.9°F	13 <sup>th</sup> Coolest	2.45"	10 <sup>th</sup> Wettest
Palacios, TX (1943)	69.7°F	34 <sup>th</sup> Coolest	3.14"	56 <sup>th</sup> Driest
Clover Field (Pearland), TX (1997)	69.2°F	11 <sup>th</sup> Coolest	1.16"	5 <sup>th</sup> Driest
David Wayne Hooks (Tomball), TX (1998)	68.0°F	8 <sup>th</sup> Coolest	3.41"	16 <sup>th</sup> Driest
Angleton, TX (1998)	68.9°F	10 <sup>th</sup> Coolest	2.51"	13 <sup>th</sup> Driest
League City, TX (1990)	68.8°F	14 <sup>th</sup> Warmest	1.68"	7 <sup>th</sup> Driest



# Precipitation

Location	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	0.86	-2.19	2	0.33	23 <sup>rd</sup>
Houston Hobby (HOU)	2.01	-1.24	3	0.76	30 <sup>th</sup>
City of Houston (IAH)	2.54	-0.77	3	1.90	30 <sup>th</sup>
College Station (CLL)	3.29	+0.63	7	1.68	23 <sup>rd</sup>

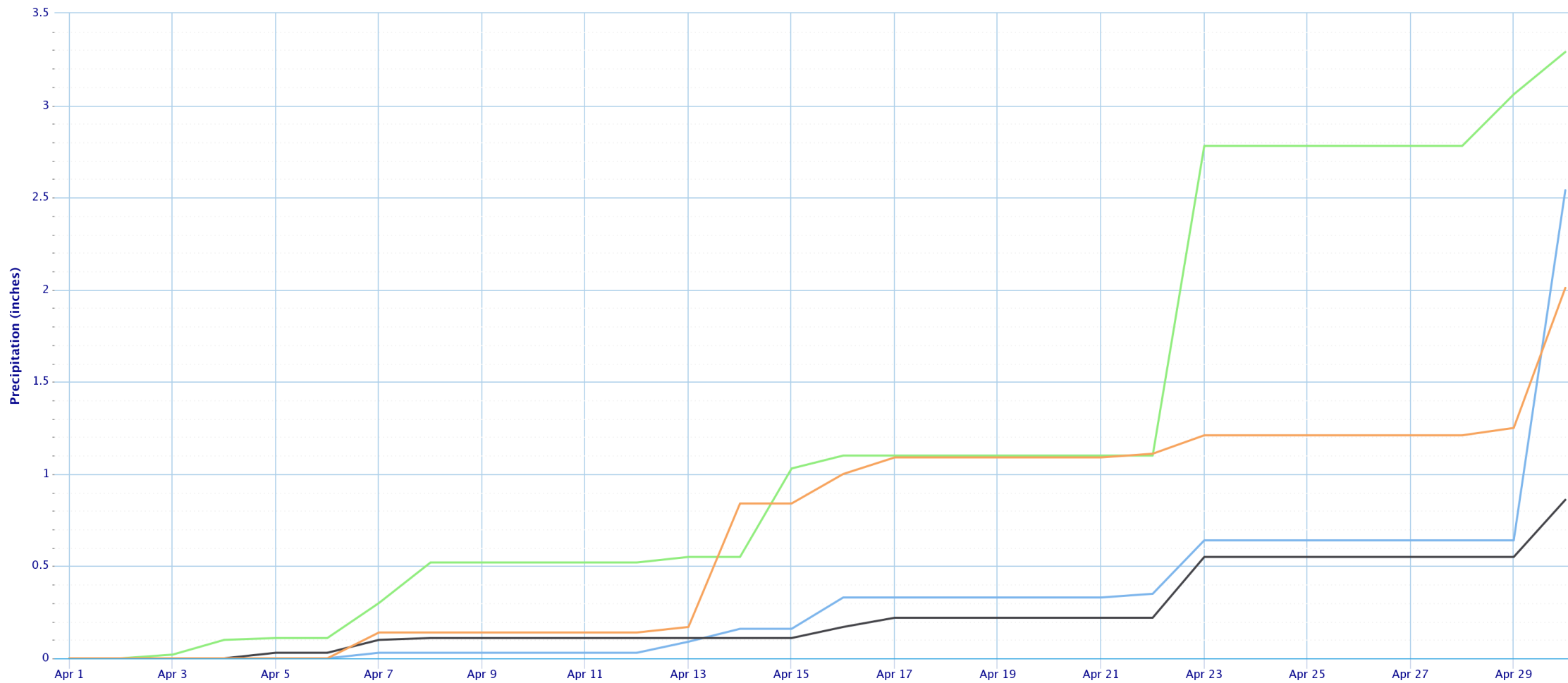
*Coastal areas experienced another month of below normal precipitation, but areas across the north saw above normal precipitation. Drought conditions improved across the area, but most dramatically across the north.*



# Precipitation Accumulation Graph

Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



City of Houston

City of Galveston

City of College Station

Houston-Hobby

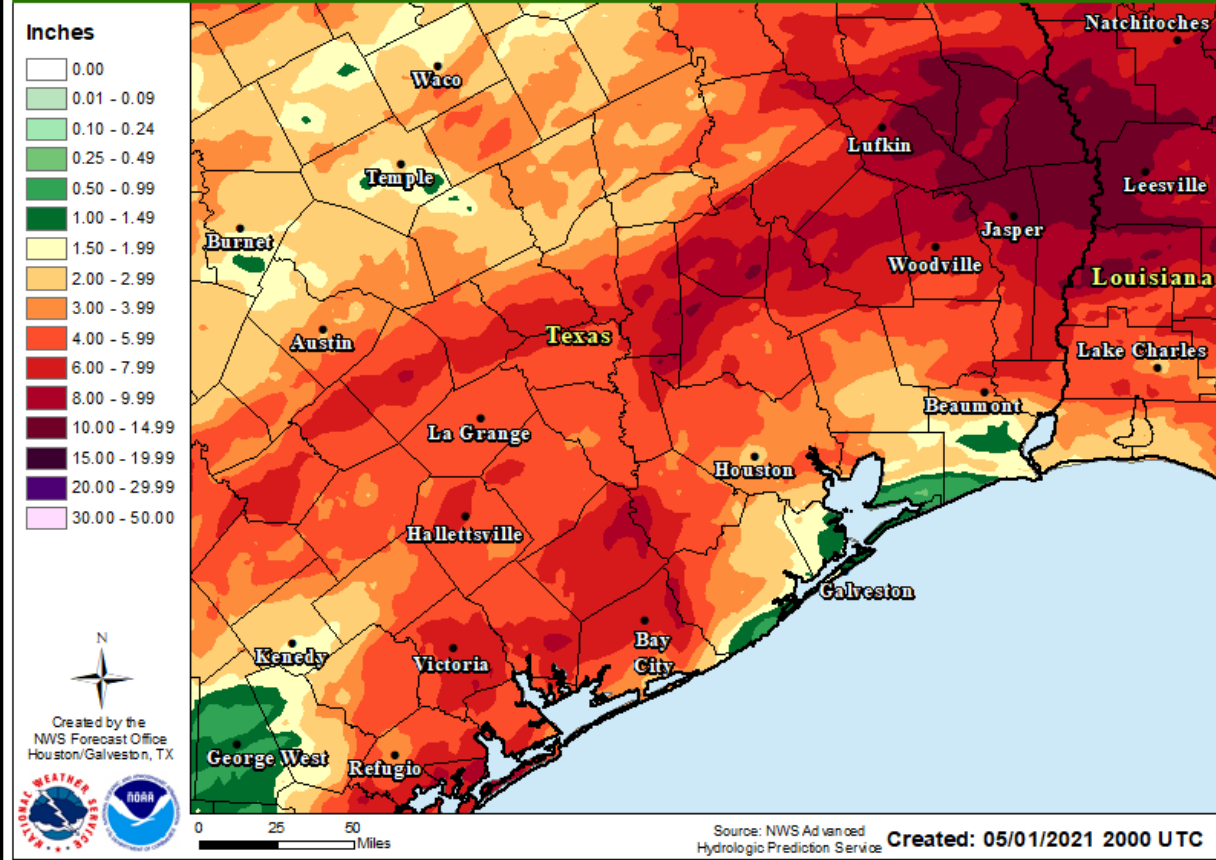


red by ACIS

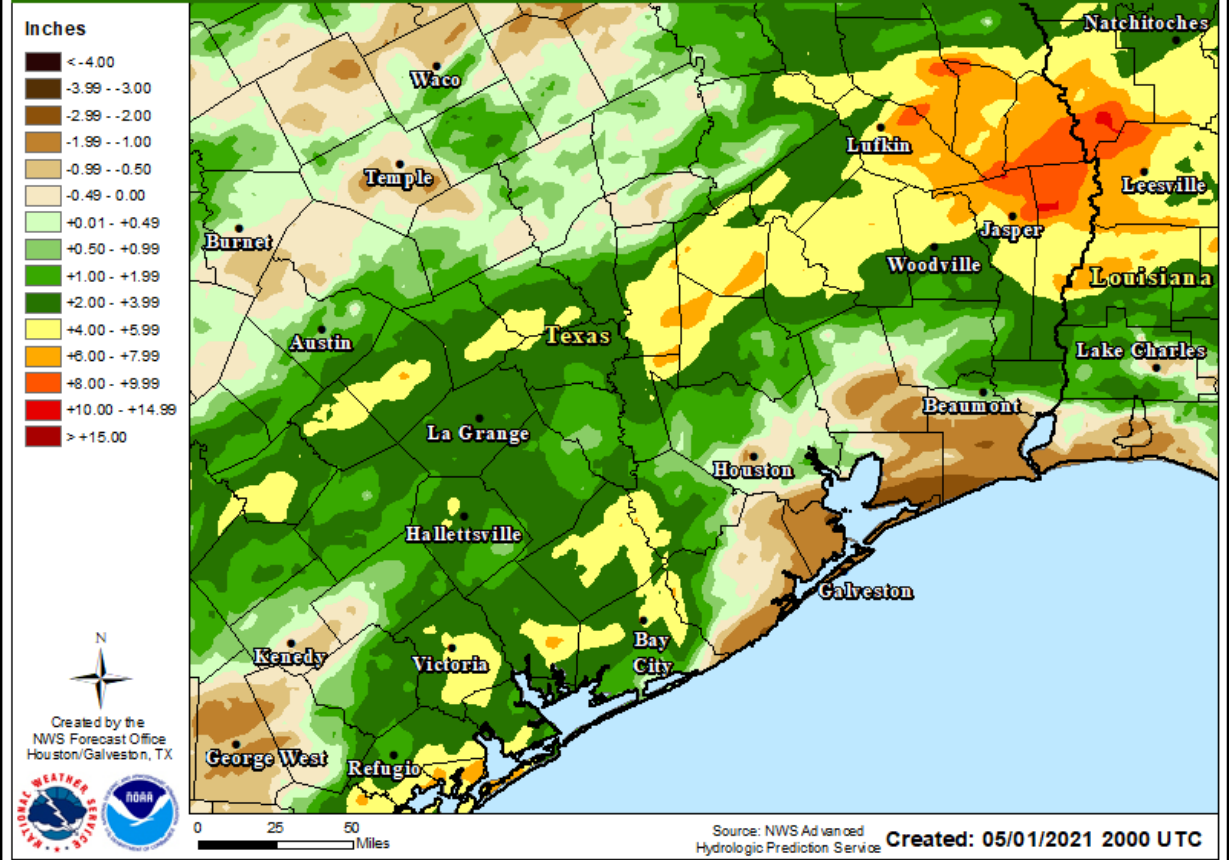


# Precipitation Maps

### Total Monthly Precipitation - April 2021



### Total Monthly Precipitation Departure From Normal - April 2021



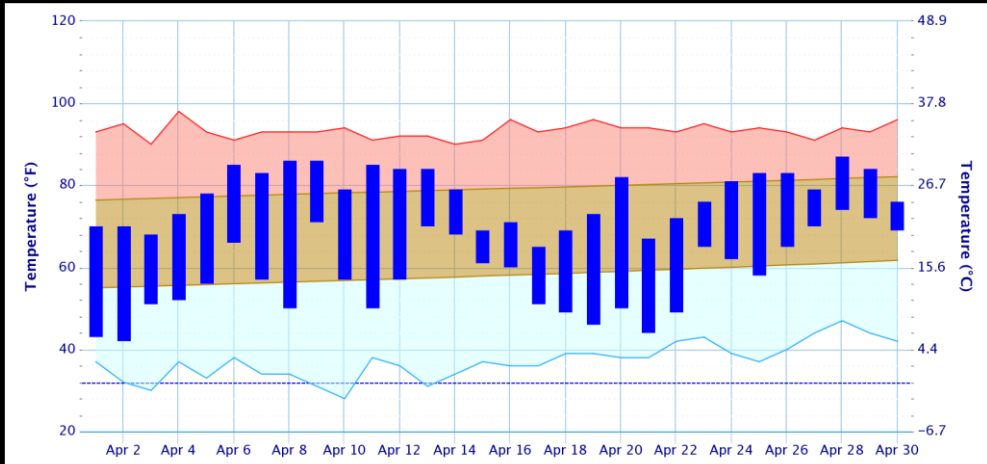
# Temperature

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)	76.2	65.2	70.7	70.1	+0.6	89 on the 24 <sup>th</sup>	52 on the 21 <sup>st</sup>
Houston Hobby (HOU)	78.8	62.4	70.6	69.8	+0.8	89 on the 24 <sup>th</sup>	49 on the 21 <sup>st</sup>
City of Houston (IAH)	79.1	58.2	68.6	69.5	-0.9	88 on the 8 <sup>th</sup> & 11 <sup>th</sup>	43 on the 2 <sup>nd</sup>
College Station (CLL)	77.6	57.8	67.7	68.5	-0.8	87 on the 28 <sup>th</sup>	42 on the 2 <sup>nd</sup>

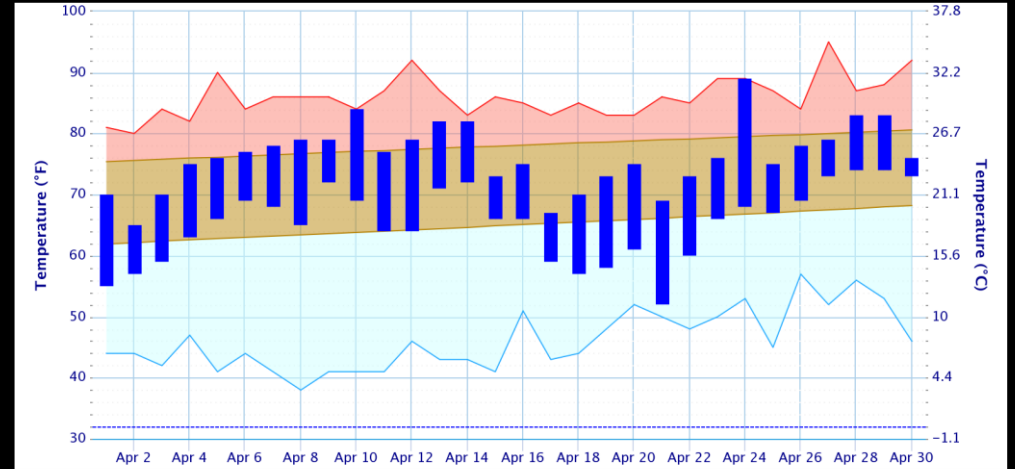
*Temperatures hovered around normal for the month of April with the northern half of the area seeing slightly below normal temperatures while the southern half experiencing slightly above normal temperatures. This is tied to precipitation, where the northern half experienced more rain causing cooler temperatures, while the coast was drier causing warmer temperatures.*

# Temperature Charts

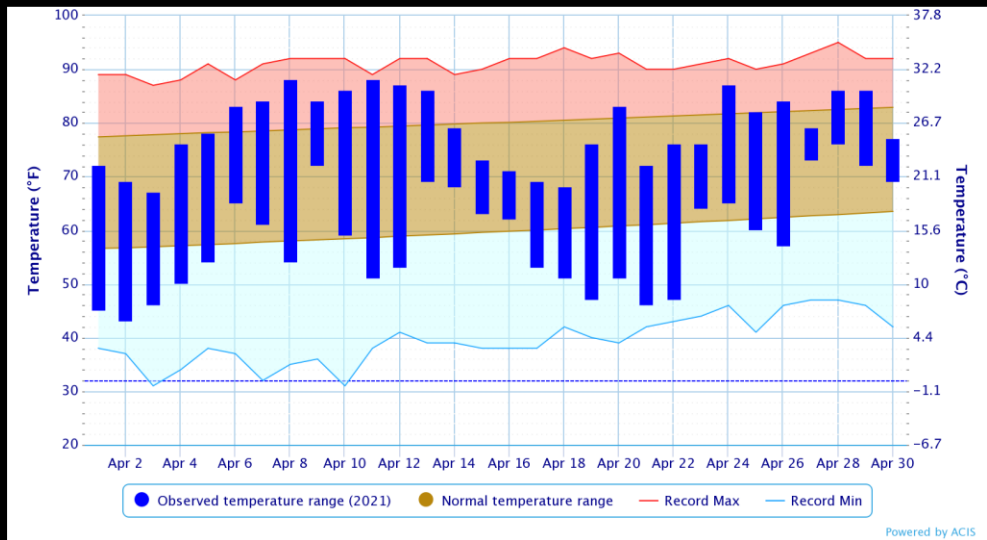
### City of College Station



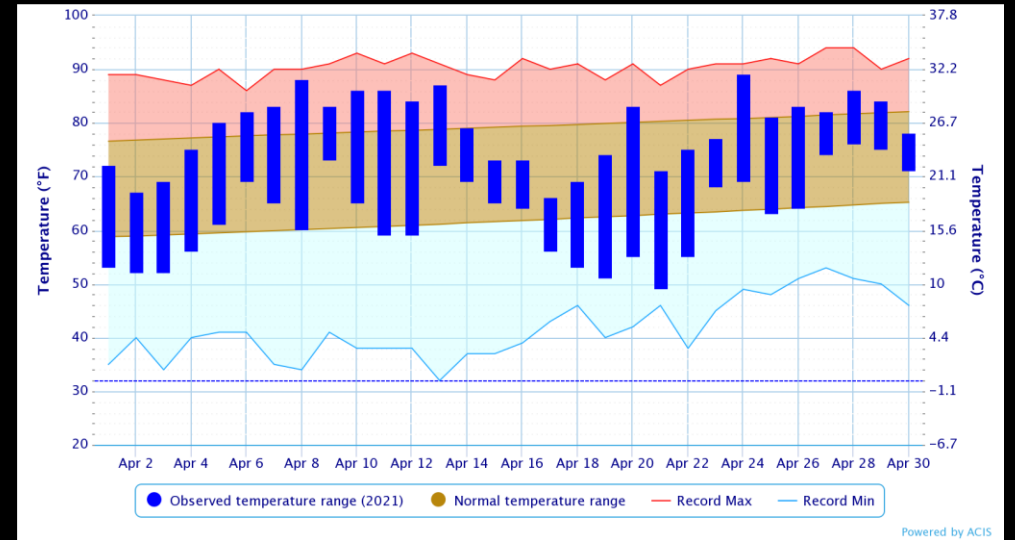
### City of Galveston



### City of Houston



### Houston-Hobby





# Daily Record Reports

Site	Date	Record Type	New Record	Previous Record
City of College Station	April 9 <sup>th</sup>	High Minimum Temp	71° - T	71° in 2015
City of College Station	April 28 <sup>th</sup>	High Minimum Temp	74° - T	74° in 1970
City of Houston	April 9 <sup>th</sup>	High Minimum Temp	72° - T	72° in 2001
City of Houston	April 28 <sup>th</sup>	High Minimum Temp	76°	75° in 1994
Houston-Hobby	April 9 <sup>th</sup>	High Minimum Temp	73° - T	73° in 2015
Houston-Hobby	April 17 <sup>th</sup>	Low Maximum Temp	66°	70° in 2014
City of Galveston	April 10 <sup>th</sup>	High Maximum Temp	84°	83° in 1929
City of Galveston	April 24 <sup>th</sup>	High Maximum Temp	89°	87° in 1955

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



### Key

High Max

Low Max

Precip

Snow

High Min

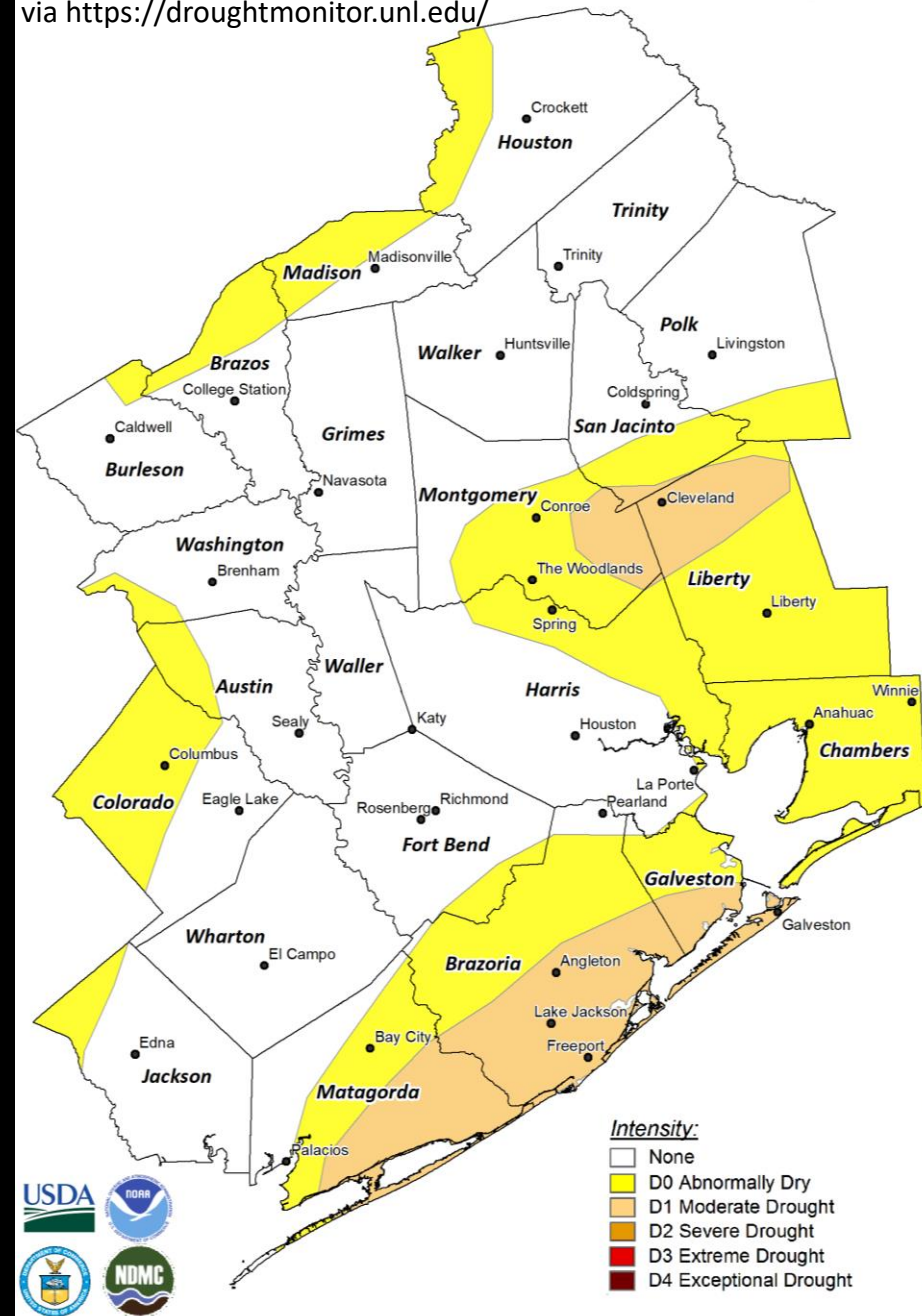
Low Min

# Drought Monitor

## As of May 6<sup>th</sup>

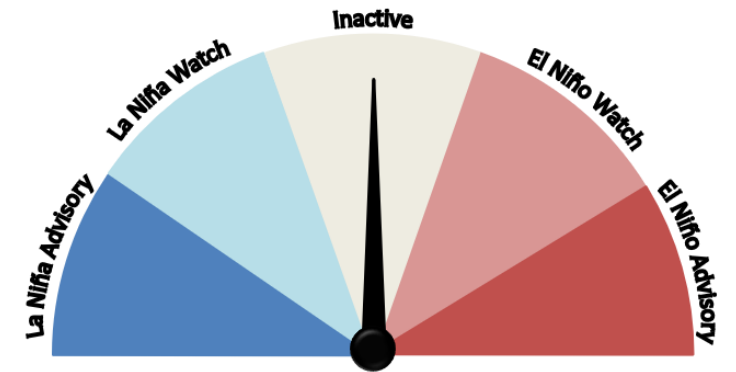
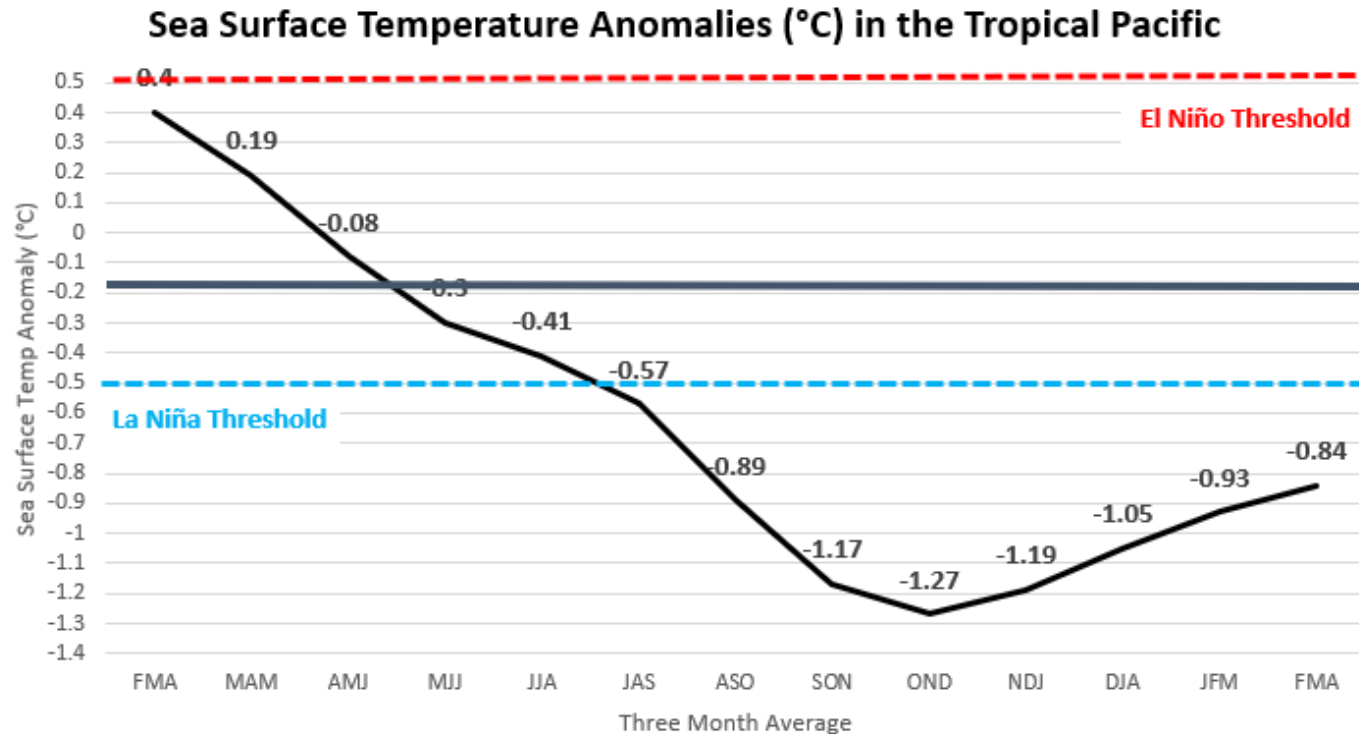
*Drought improvements across the north due to above normal precipitation. There are still some areas of Moderate Drought (D1) – Coastal Matagorda, Brazoria, and Galveston counties, eastern Montgomery County, and northern Liberty County.*

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



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

- ENSO-Neutral conditions are present
- ENSO-Neutral likely to continue through the summer
  - 67% chance in June-August 2021

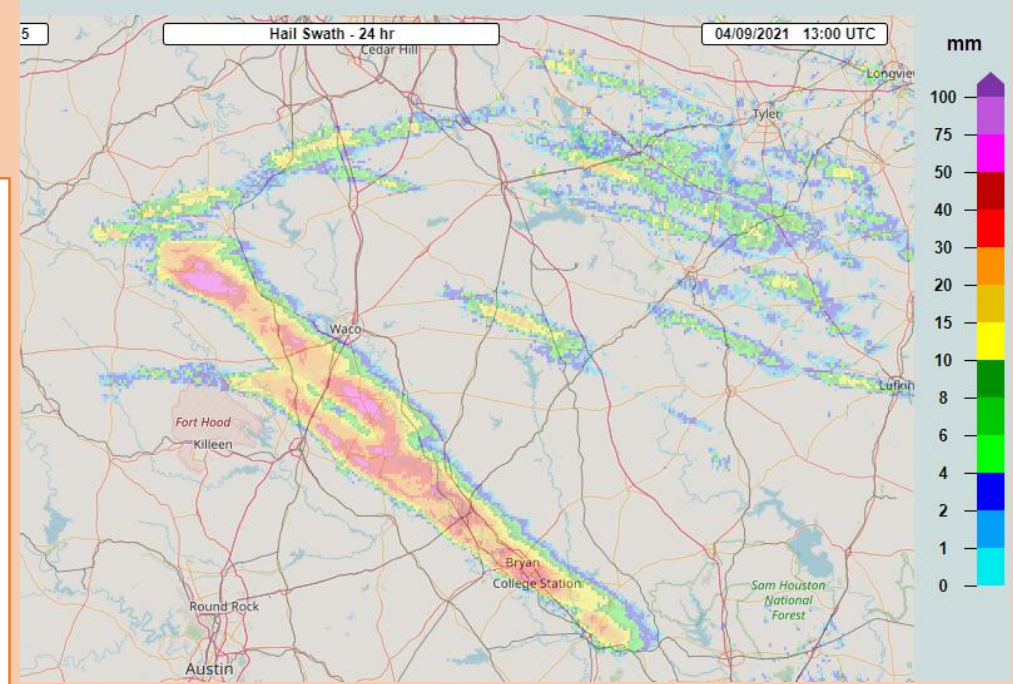


**El Niño or La Niña Watch:** Issued when conditions are favorable for the development of El Niño or La Niña conditions within the next six months.

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

# Severe Hail Event – April 8<sup>th</sup>

In the afternoon of April 8th, 2021, a singular thunderstorm developed in Comanche County, but quickly gained strength and began to produce large hail in northern Comanche County by 5pm. The thunderstorm split over Erath County at around 5:30pm as it progressed eastward. The weaker cell split to the north of the town of Hico and then eventually just south of Dallas before dying. The other cell moved south towards the Town of Waco strengthening into a long-lived Severe Thunderstorm dropping large hail as it went. It continued on this trajectory approaching the Burleson/Brazos County border around 8:30pm. The first Severe Thunderstorm Warning was issued at 8:39pm CDT for portions of Burleson, Brazos, and Grimes counties with the first report of hail falling in Brazos County at 8:50pm. The most significant hail in our area fell in Bryan-College Station area between 9:00 - 9:30pm CST where 1" to 2.75" (the size from a quarter to a baseball) fell. A Tornado Warning was issued as the storm moved over the College Station area due to radar-indicated circulation, though no tornado has been confirmed for this storm at the writing of this summary. The storm continued its southeastward motion into southern Grimes County before eventually dissipating in western Montgomery County at around 10:30pm CDT.



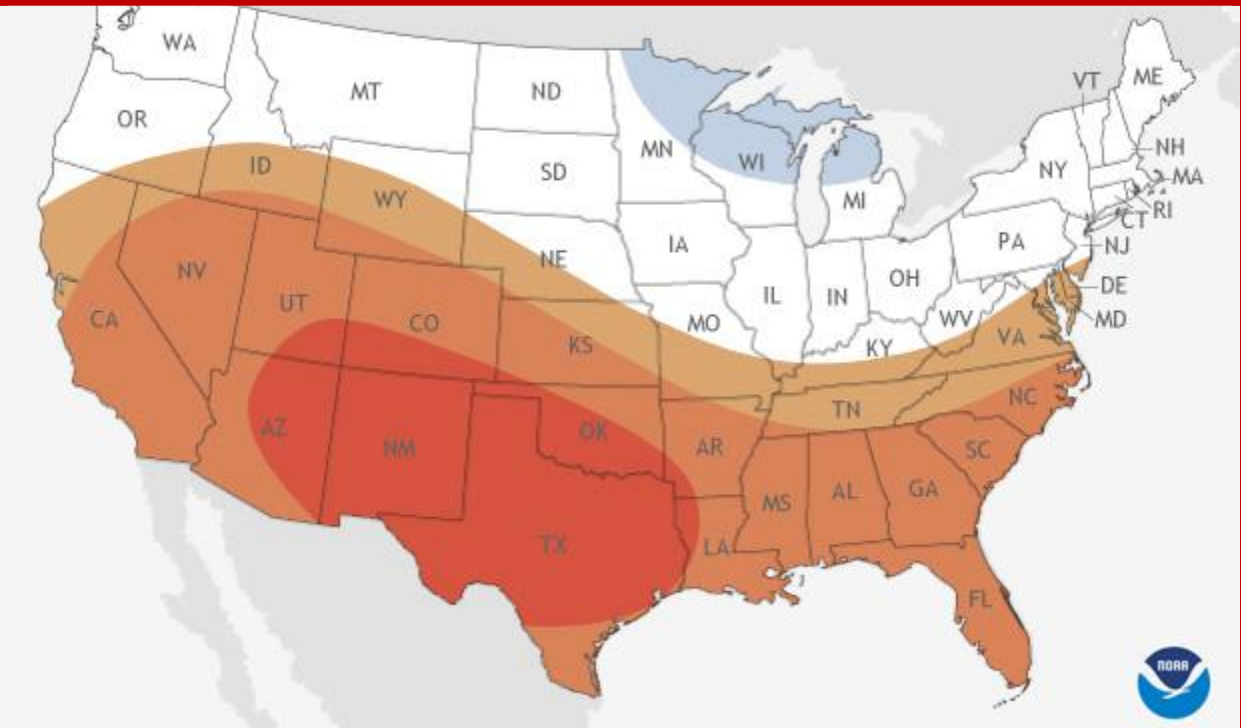
Large hail in Bryan (via Twitter - Miriam & Anna Sanders)



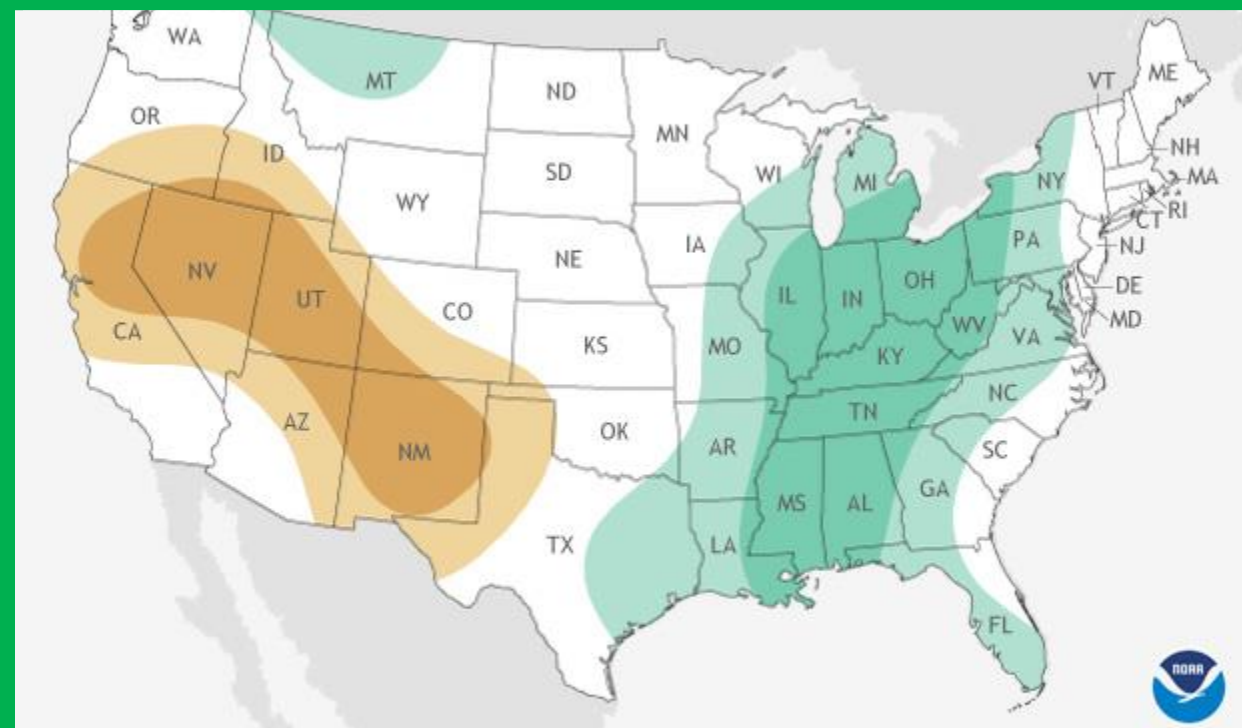
# May Outlook

Location	Average Temp(°F)	Normal High (°F)	Normal Low (°F)
Galveston	77.6	83.0	72.3
Houston Hobby	77.0	85.4	68.7
City of Houston	76.9	86.3	67.6
College Station	76.2	85.8	66.6

Location	Normal Monthly Precipitation (in.)
Galveston	4.32
Houston Hobby	4.75
City of Houston	5.09
College Station	4.33



Temperature Outlook for May 2021  
 Issued 30 Apr 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 May 2021  
 Issued 30 Apr 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

# 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.*

