

# NWS Houston, Texas September 2022 Regional Climate Summary

**Produced by Jimmy Fowler**

## ***...Dry weather returns to Southeast Texas...Drought begins to expand...***

*After a very wet August, September was the opposite with much below normal precipitation. Generally, the region experienced about two to four inches below normal precipitation with the observed rainfall mostly occurring within the first week of September while the rest of the month had almost zero rainfall. The lack of rainfall led to above normal temperatures and the redevelopment of the drought in portions of the region.*

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# By the Numbers: September 2022



Location (records started)	Average Temp	Ranking	Total Rainfall	Ranking
City of Houston, TX (1888)	80.7°F	35 <sup>th</sup> Warmest	0.75"	7 <sup>th</sup> Driest
Houston Hobby, TX (1930)	82.8°F	7 <sup>th</sup> Warmest	1.52"	10 <sup>th</sup> Driest
City of Galveston, TX (1871)	83.5°F	9 <sup>th</sup> Warmest	2.80"	41 <sup>st</sup> Driest
City of College Station, TX (1882)	81.4°F	27 <sup>th</sup> Warmest	2.54"	56 <sup>th</sup> Driest
Palacios, TX (1943)	80.7°F	27 <sup>th</sup> Warmest	1.27"	11 <sup>th</sup> Driest
Huntsville, TX (1997)	80.7°F	7 <sup>th</sup> Warmest	1.84"	9 <sup>th</sup> Driest
Sugar Land, TX (2000)	80.8°F	11 <sup>th</sup> Warmest	1.08"	3 <sup>rd</sup> Driest
Conroe, TX (1997)	77.8°F	10 <sup>th</sup> Coolest	2.58"	11 <sup>th</sup> Driest
Clover Field (Pearland), TX (1997)	81.4°F	8 <sup>th</sup> Warmest	1.37"	4 <sup>th</sup> Driest
David Wayne Hooks (Tomball), TX (1998)	80.4°F	9 <sup>th</sup> Warmest	2.15"	7 <sup>th</sup> Driest
Angleton, TX (1998)	79.5°F	11 <sup>th</sup> Warmest	2.42"	6 <sup>th</sup> Driest
League City, TX (1990)	80.5°F	8 <sup>th</sup> Warmest	3.25"	7 <sup>th</sup> Driest



# Precipitation

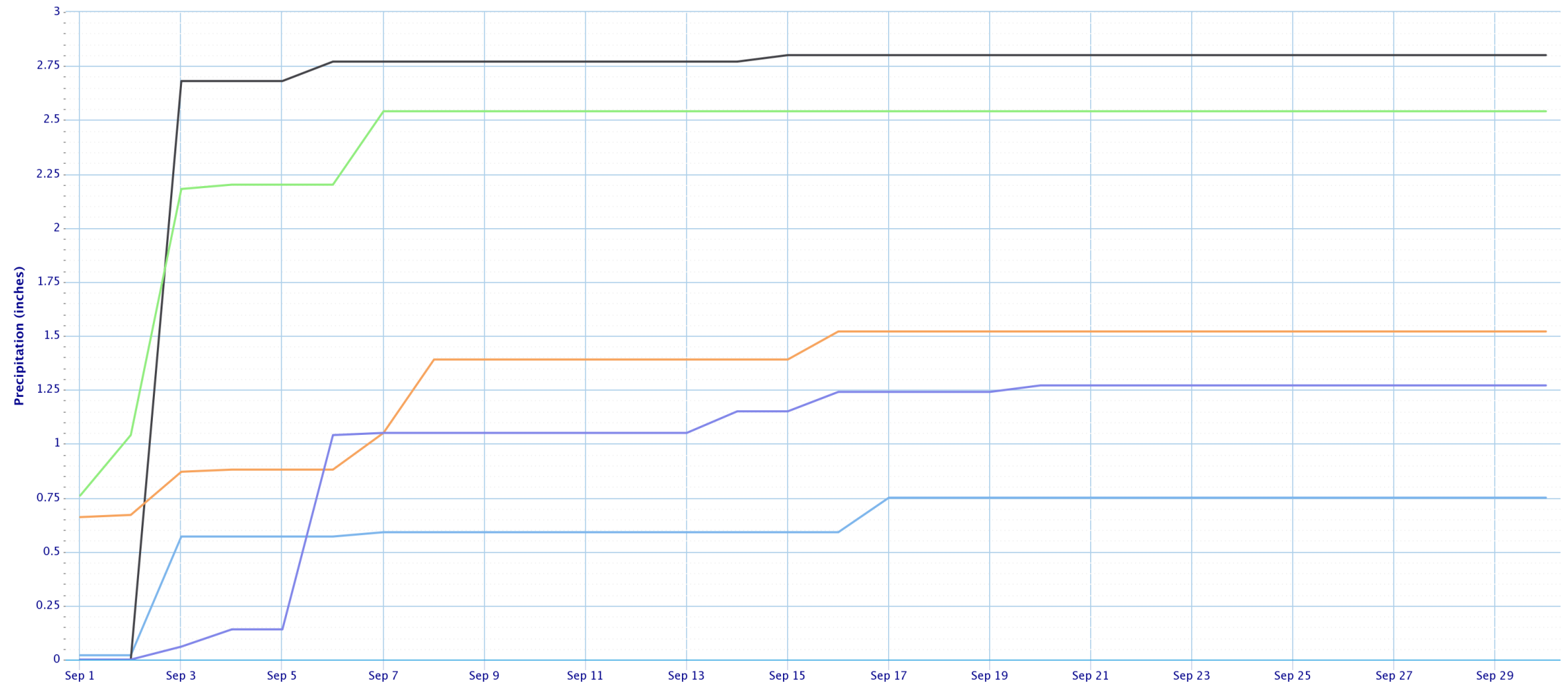
Location	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	2.80	<b>-3.85</b>	4	2.68	3 <sup>rd</sup>
Houston Hobby (HOU)	1.52	<b>-4.24</b>	5	0.34	8 <sup>th</sup>
City of Houston (IAH)	0.75	<b>-3.96</b>	6	0.55	3 <sup>rd</sup>
College Station (CLL)	2.54	<b>-0.96</b>	4	1.14	3 <sup>rd</sup>
Palacios (PSX)	1.27	<b>-4.61</b>	5	0.90	6 <sup>th</sup>



# Precipitation Accumulation Graph

Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



City of Houston

City of Galveston

City of College Station

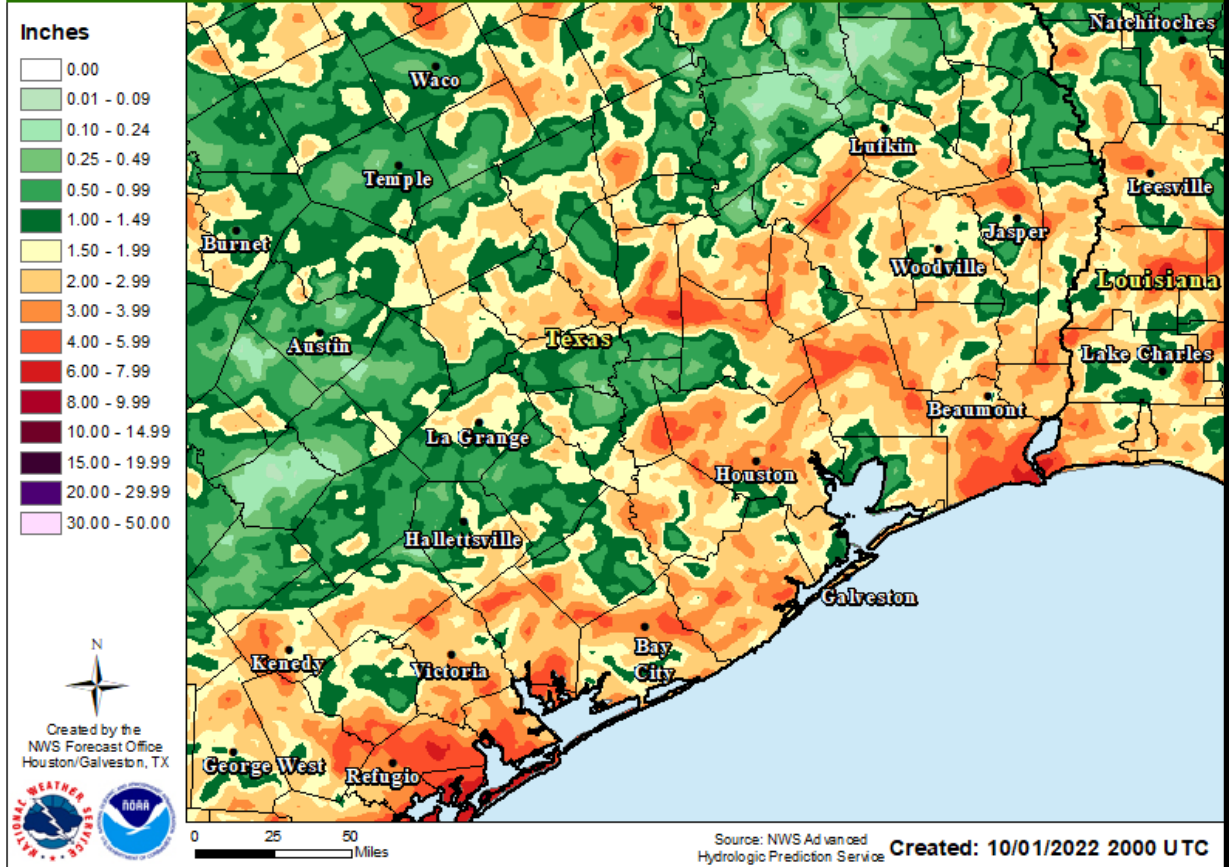
Houston-Hobby

Palacios

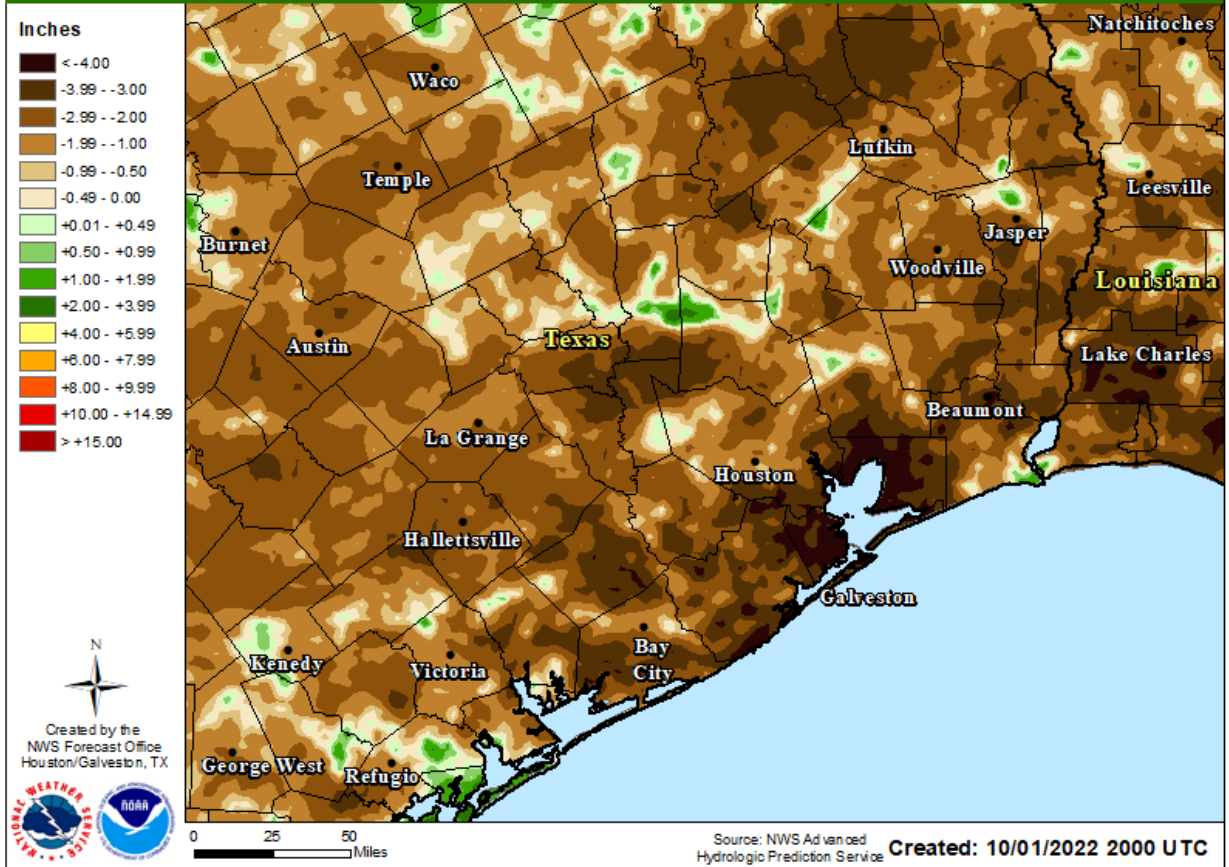


# Precipitation Maps

### Total Monthly Precipitation - September 2022



### Total Monthly Precipitation Departure From Normal - September 2022



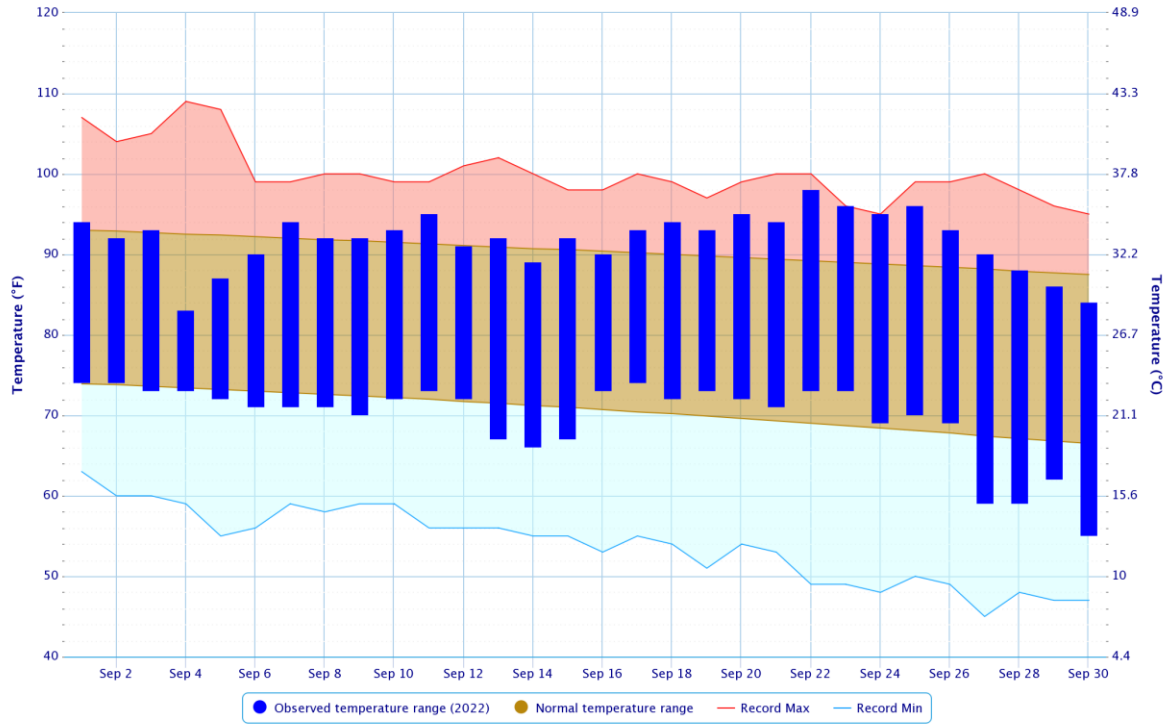
# Temperature

Location	Average High Temp (F)	Average Low Temp (F)	Average Temp (F)	Departure From Normal Average (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	89.1	77.9	83.5	<b>+1.1</b>	95 on the 22 <sup>nd</sup>	65 on the 30 <sup>th</sup>
Houston Hobby (HOU)	92.1	73.4	82.8	<b>+1.7</b>	99 on the 22 <sup>nd</sup>	58 on the 30 <sup>th</sup>
City of Houston (IAH)	91.8	69.7	80.7	<b>+0.2</b>	98 on the 22 <sup>nd</sup>	55 on the 30 <sup>th</sup>
College Station (CLL)	92.8	70.0	81.4	<b>+0.8</b>	98 on the 22 <sup>nd</sup>	57 on the 27 <sup>th</sup>
Palacios (PSX)	89.9	71.5	80.7	<b>+0.8</b>	97 on the 26 <sup>th</sup>	58 on the 30 <sup>th</sup>

# Temperature Charts

## City of Houston

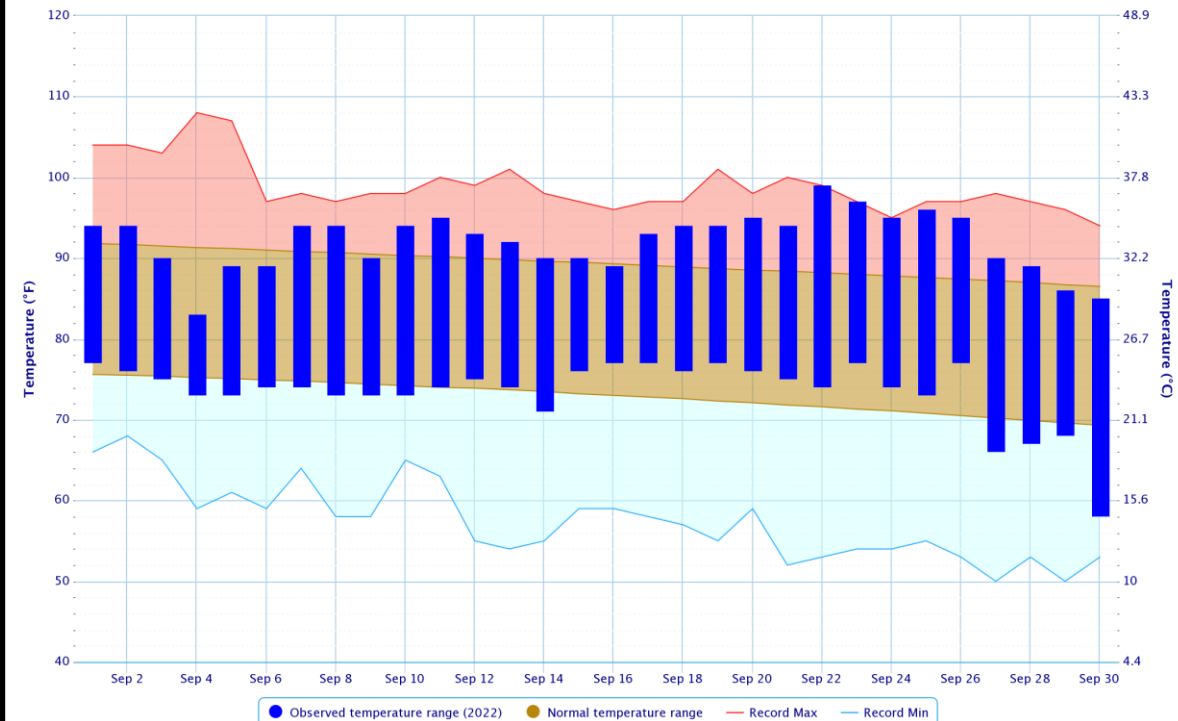
Period of Record - 1889-05-01 to 2022-09-30. Normals period: 1991-2020. Click and drag to zoom chart.



Powered by ACIS

## Houston-Hobby

Period of Record - 1930-08-01 to 2022-09-30. Normals period: 1991-2020. Click and drag to zoom chart.



Powered by ACIS

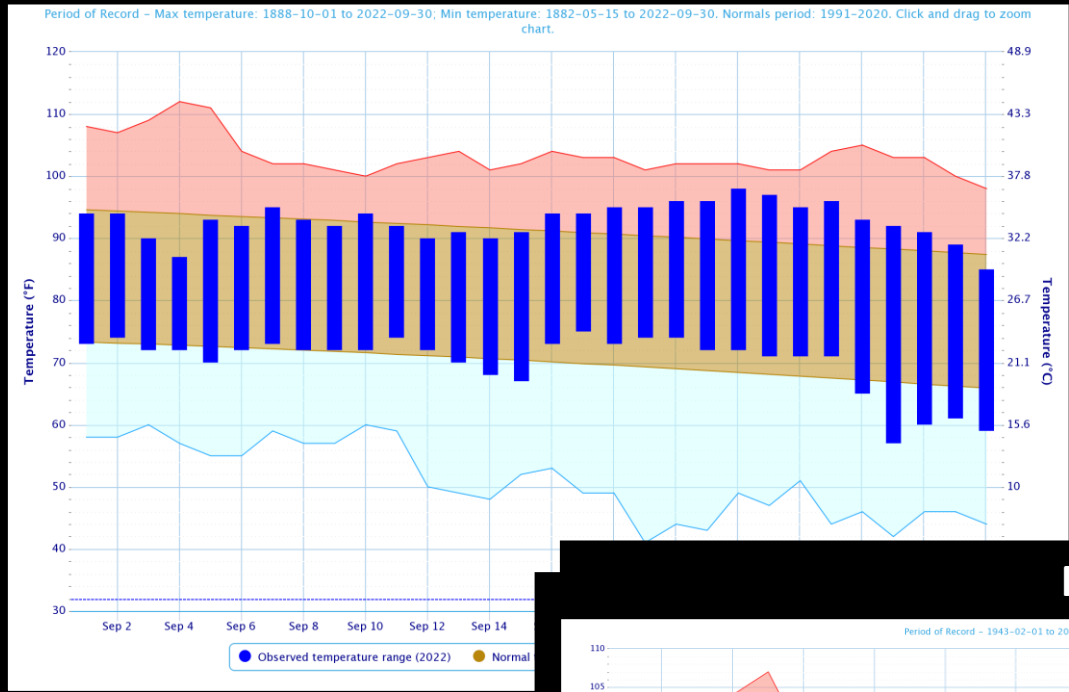


SEVERE

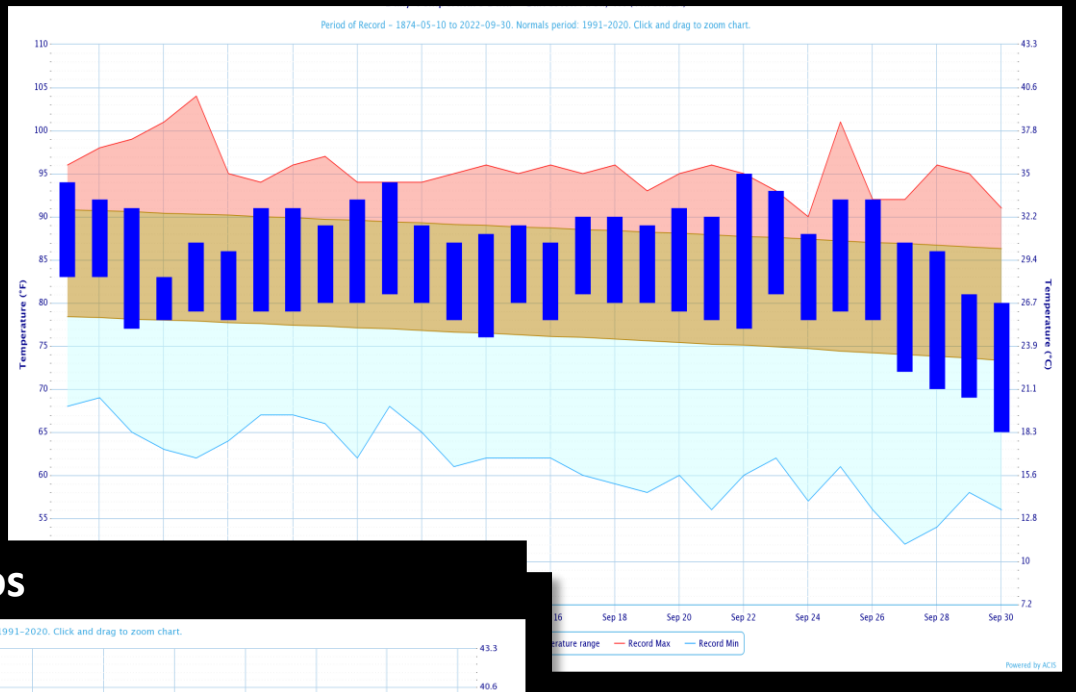


# Temperature Charts

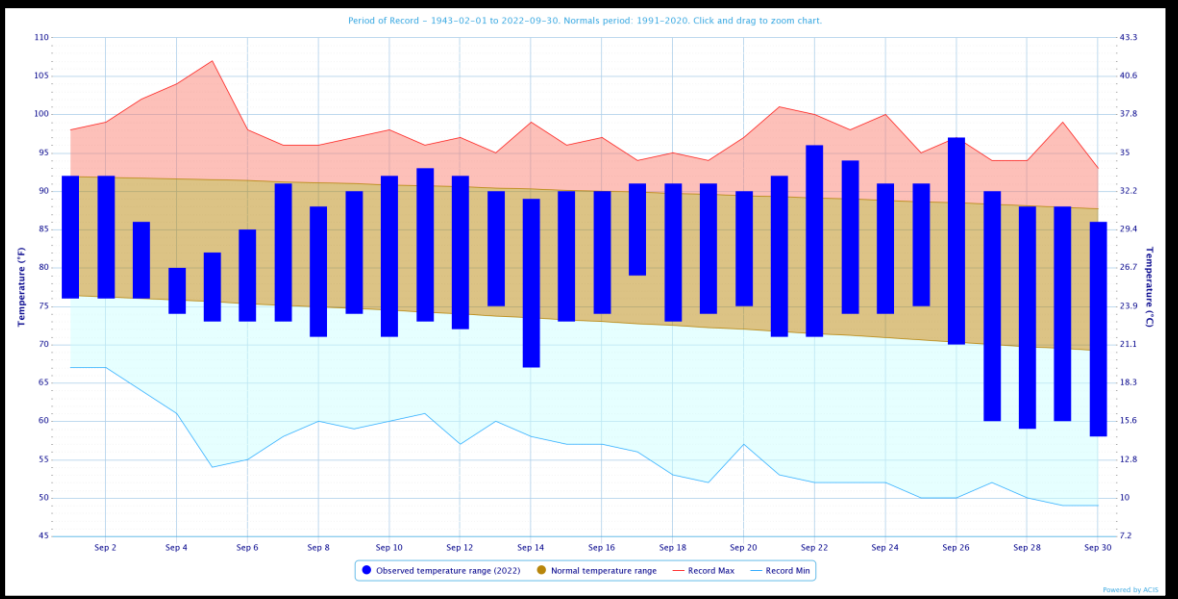
### City of College Station



### City of Galveston



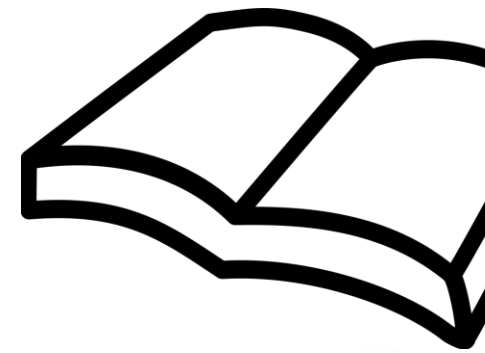
### Palacios



# Daily Record Reports – City of College Station

Date	Record Type	New Record	Previous Record
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**No Daily Records.**



**High Max**

**Low Max**

**Precip**

Key

**Snow**

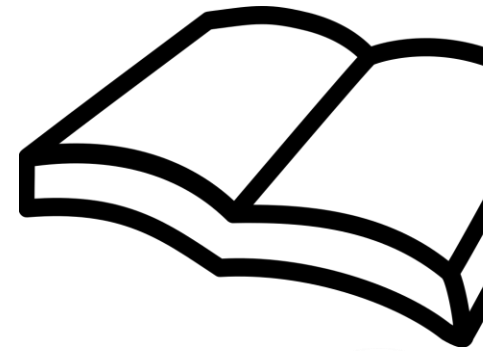
**High Min**

**Low Min**



# Daily Record Reports – City of Houston

Date	Record Type	New Record	Previous Record
23 <sup>rd</sup>	High Maximum	96° - T	96° in 1993
24 <sup>th</sup>	High Maximum	95° - T	95° in 2013



High Max

Low Max

Precip

Snow

High Min

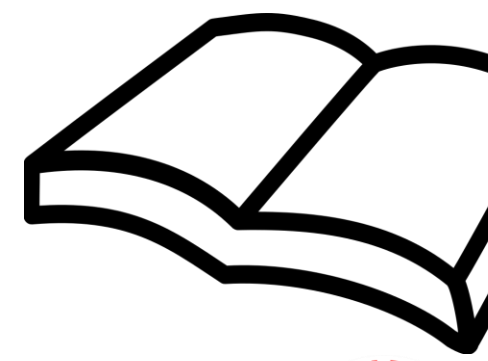
Low Min



Key

# Daily Record Reports – Houston-Hobby

Date	Record Type	New Record	Previous Record
22 <sup>nd</sup>	High Maximum	99° - T	99° in 2005
23 <sup>rd</sup>	High Maximum	97°	96° in 2005
24 <sup>th</sup>	High Maximum	95°	94° in 2013



Key

High Max

Low Max

Precip

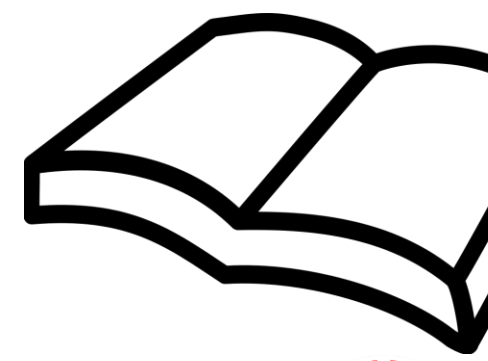
Snow

High Min

Low Min

# Daily Record Reports – City of Galveston

Date	Record Type	New Record	Previous Record
11 <sup>th</sup>	High Maximum	94° - T	94° in 2020
22 <sup>nd</sup>	High Maximum	95° - T	95° in 2005
23 <sup>rd</sup>	High Maximum	93° - T	93° in 1998
26 <sup>th</sup>	High Maximum	92°	91° in 2011



Key

High Max

Low Max

Precip

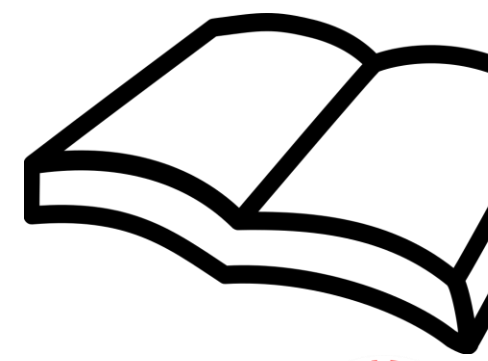
Snow

High Min

Low Min

# Daily Record Reports – Palacios

Date	Record Type	New Record	Previous Record
26 <sup>th</sup>	High Maximum	97°	93° in 2007



High Max

Low Max

Precip

Snow

High Min

Low Min

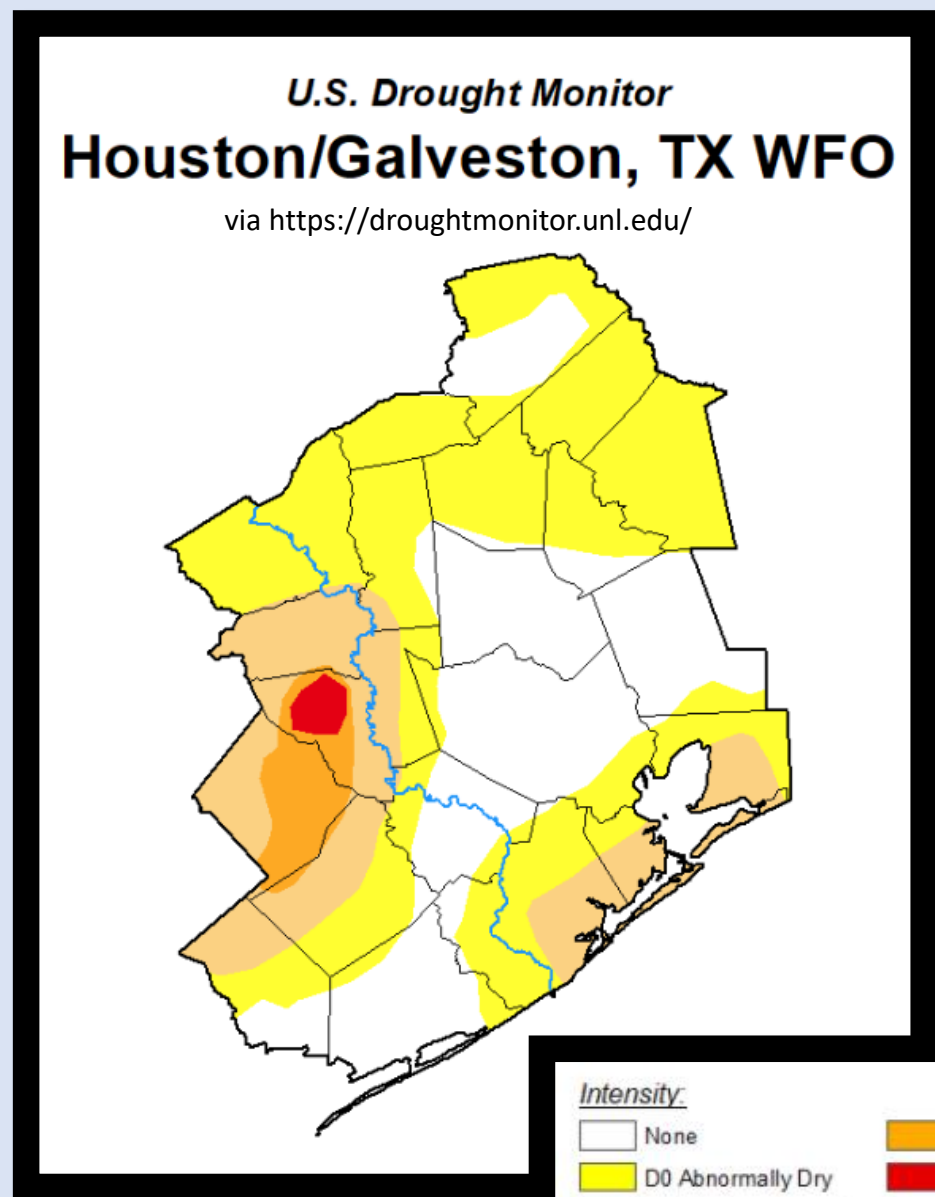


Key

# Drought Monitor

## As of September 27<sup>th</sup>

*Well, drought conditions rapidly improved during the start of the month thanks to rainfall from August – however the dry pattern returned leading to the redevelopment of some of the drought. Extreme Drought (D3) has developed in northern Austin County with Severe Drought (D2) down through Colorado County. Moderate Drought (D1) is ongoing in the coastal regions of Brazoria, Galveston, and Chambers counties. It also is experience in Washington, western Waller, Austin, Colorado, and northern Jackson and Wharton counties.*



**Intensity:**

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

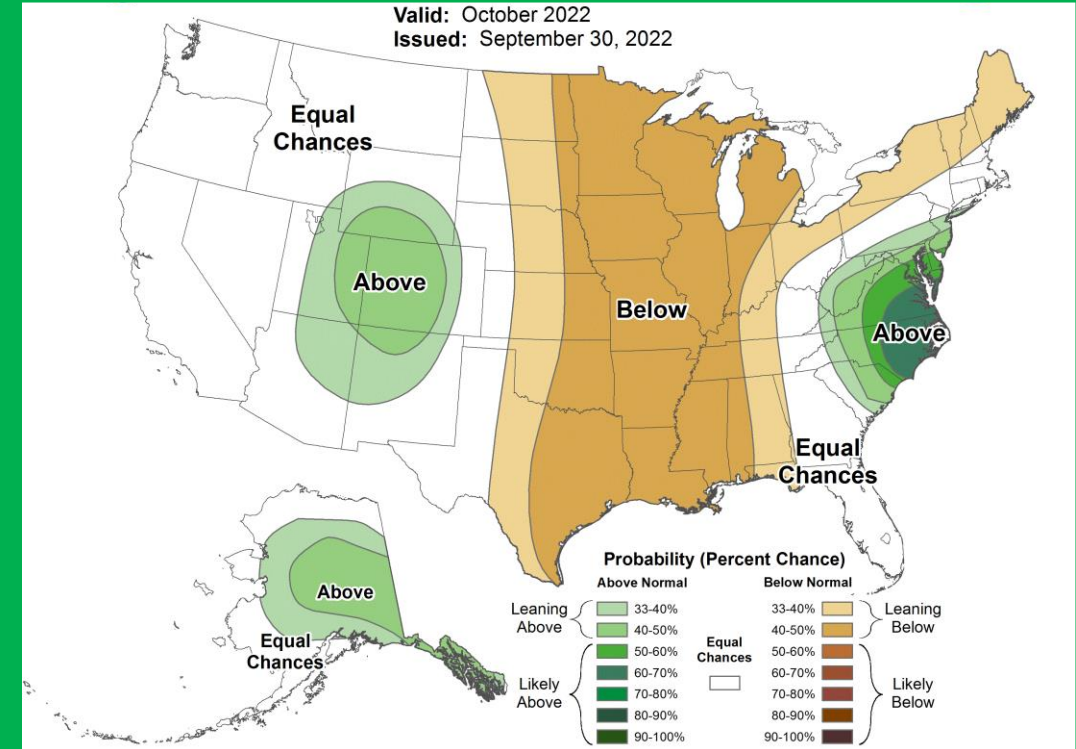
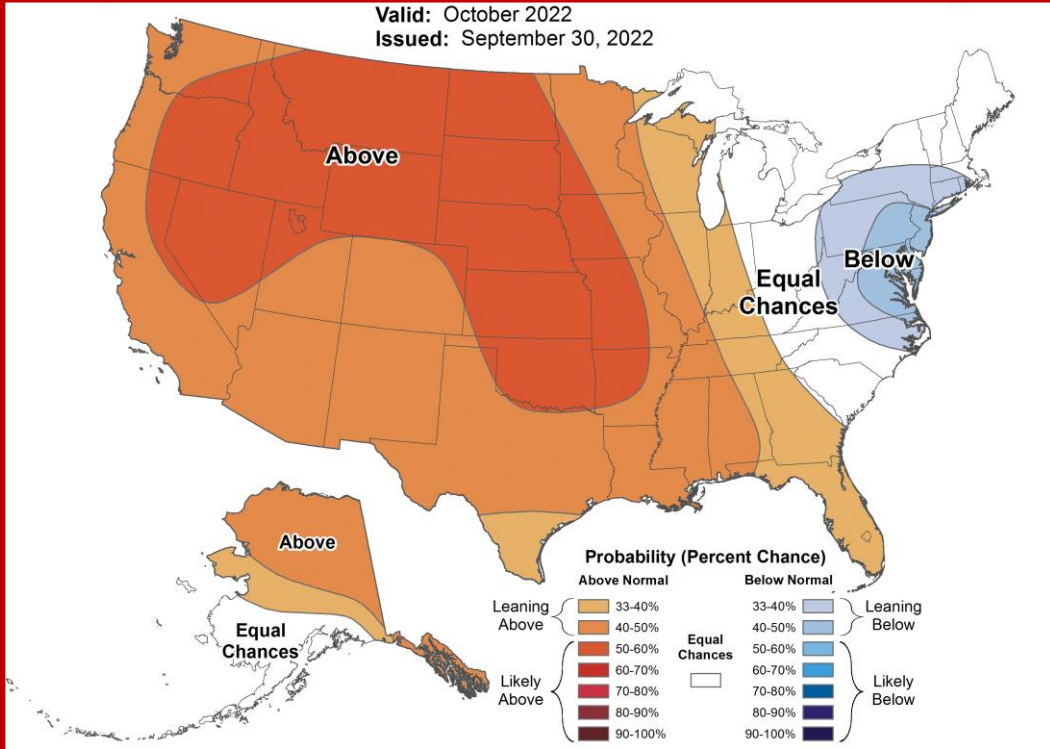
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>



# October Outlook

Location	Average Temp(°F)	Normal High (°F)	Normal Low (°F)
Galveston	75.3	82.1	68.6
Houston Hobby	73.0	82.1	63.9
City of Houston	71.8	82.8	60.9
College Station	71.1	81.9	60.2
Palacios	73.9	83.7	64.1

Location	Normal Monthly Precipitation (in.)
Galveston	5.15
Houston Hobby	5.78
City of Houston	5.46
College Station	4.93
Palacios	4.33

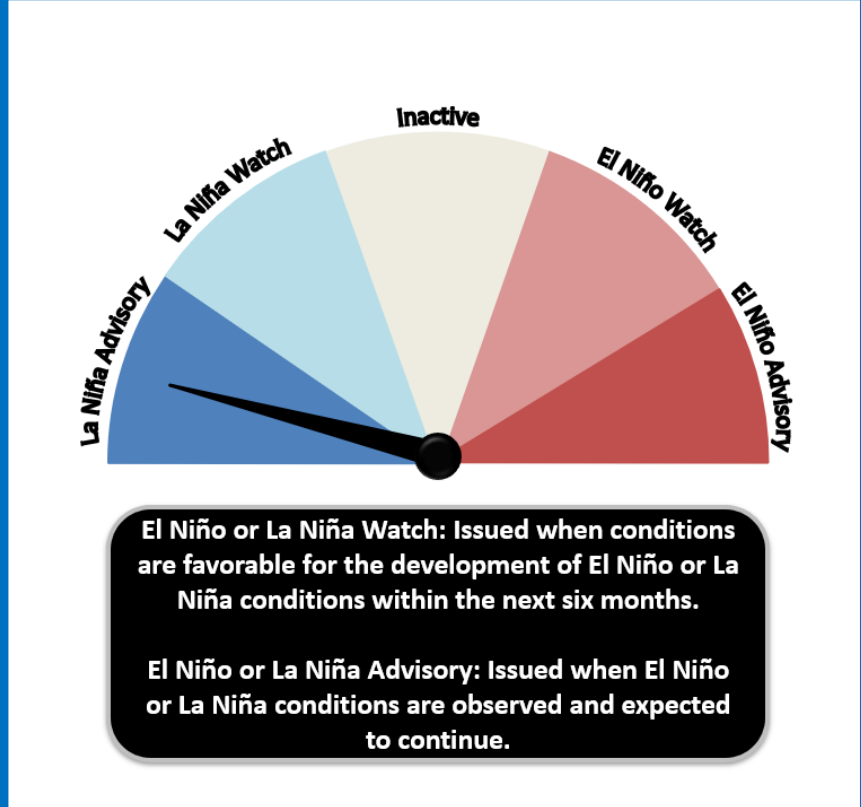
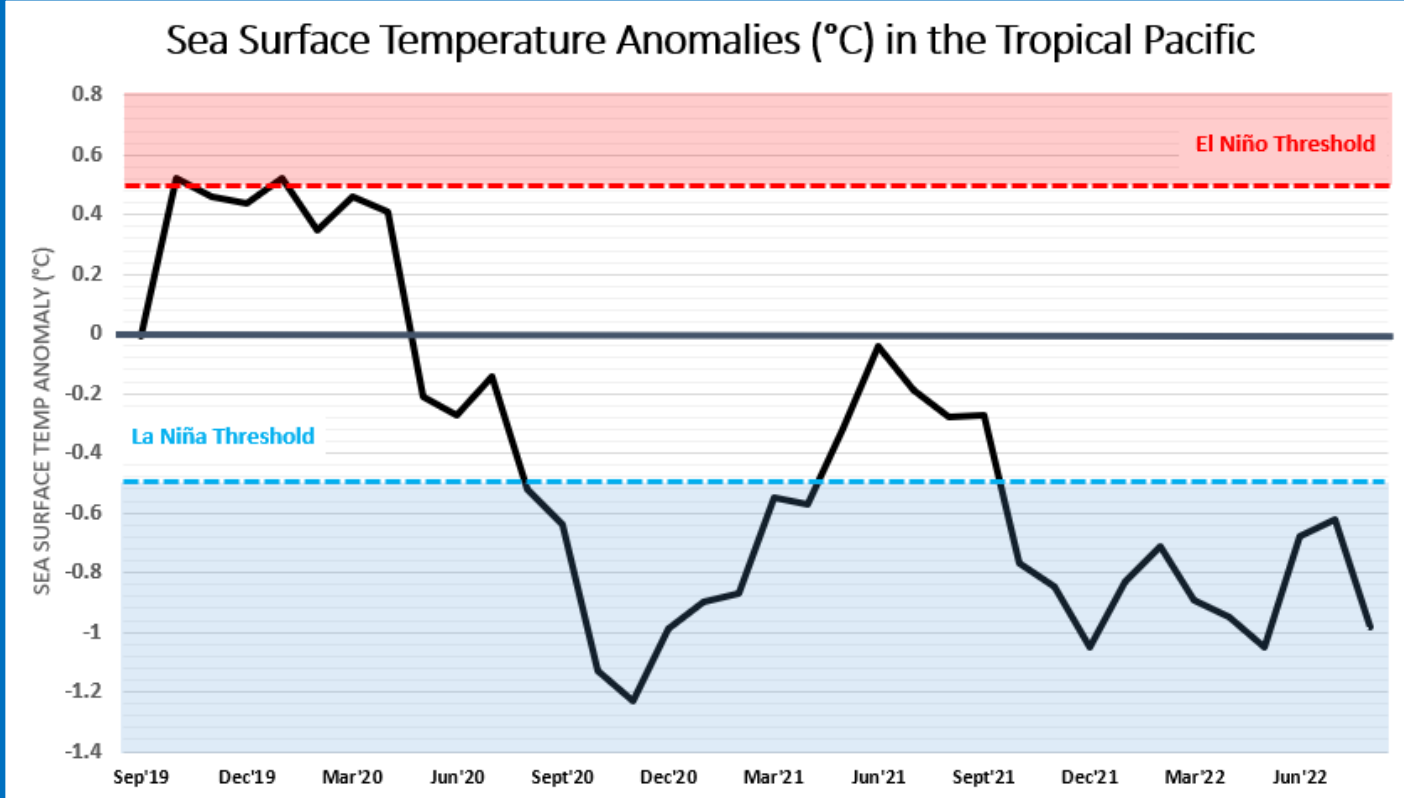




## Current ENSO Phase: **La Niña**

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

- La Niña conditions are expected to continue through the Winter.



# 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).*

## 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.*

## Houston Hobby (HOU)

*Records are based upon observations beginning in August 1931.*

## Palacios (PSX)

*Records are based upon observations beginning in February 1943.*

