

# NWS Houston, Texas October 2024 Regional Climate Summary

**Produced by Jimmy Fowler**

***...One of the Hottest and Driest Octobers on Record...***

***...Severe Drought Returns...***

*This October, normally one of the wettest months of the year, was extraordinarily dry as high pressure remained dominate over the region. Most of the month was rain-free until the last few days when moist onshore flow brought some showers to the coast. Most of the region saw around 3 to 5 inches below normal rainfall, and the City of College Station didn't record any rain this month tying it for the driest October on record. Hot temperatures also persisted with most of the area running around 3 to 5 degrees above normal. The City of College Station and Houston-Hobby experienced their warmest Octobers on record. Between the extreme heat and dryness, Severe Drought (D2) returned for most of the area with Moderate Drought (D1) along the coast.*

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# By the Numbers: October 2024

Location (records started)	Average Temp	Ranking	Total Rainfall	Ranking
City of Houston, TX (1888)	76.6°F	3 <sup>rd</sup> Warmest	0.32"	13 <sup>th</sup> Driest
Houston Hobby, TX (1930)	77.9°F	<b>Warmest on Record</b>	1.92"	28 <sup>th</sup> Driest
City of Galveston, TX (1871)	<b>78.3°F</b>	4 <sup>th</sup> Warmest	0.52"	18 <sup>th</sup> Driest
City of College Station, TX (1882)	78.1°F	<b>Warmest on Record</b>	<b>0.00"</b>	<b>Driest on Record</b> (Tied)
Palacios, TX (1943)	76.6°F	3 <sup>rd</sup> Warmest	0.10"	6 <sup>th</sup> Driest
Huntsville, TX (1997)	74.5°F	3 <sup>rd</sup> Warmest	0.08"	<b>Driest on Record</b>
Sugar Land, TX (2000)	77.0°F	<b>Warmest on Record</b>	<b>2.43"</b>	10 <sup>th</sup> Driest
Conroe, TX (1997)	<b>73.2°F</b>	2 <sup>nd</sup> Warmest	1.17"	6 <sup>th</sup> Driest
Clover Field (Pearland), TX (1997)	76.7°F	2 <sup>nd</sup> Warmest	1.40"	6 <sup>th</sup> Driest
David Wayne Hooks (Tomball), TX (1998)	75.6°F	2 <sup>nd</sup> Warmest	0.39"	2 <sup>nd</sup> Driest
Angleton, TX (1998)	75.3°F	3 <sup>rd</sup> Warmest	1.95"	8 <sup>th</sup> Wettest
League City, TX (1990)	75.3°F	3 <sup>rd</sup> Warmest	1.67"	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)	0.52	<b>-4.63</b>	1	0.47	31 <sup>st</sup>
Houston Hobby (HOU)	1.92	<b>-3.86</b>	2	1.69	31 <sup>st</sup>
City of Houston (IAH)	0.32	<b>-5.12</b>	1	0.27	30 <sup>th</sup>
College Station (CLL)	0.00	<b>-4.93</b>	2	0.00	-
Palacios (PSX)	0.10	<b>-4.23</b>	2	0.09	31 <sup>st</sup>



# Precipitation Accumulation Graph

### Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



City of Houston

City of Galveston

City of College Station

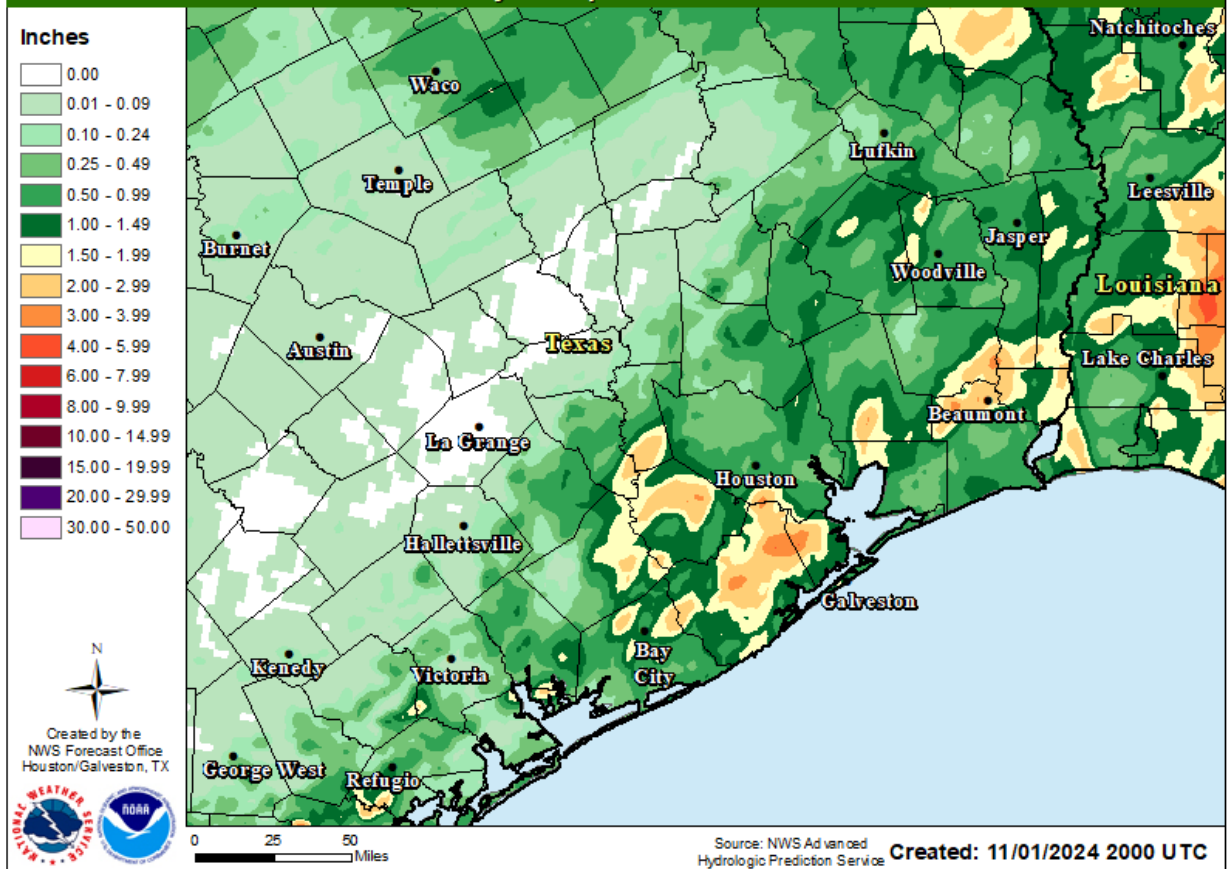
Houston-Hobby

Palacios

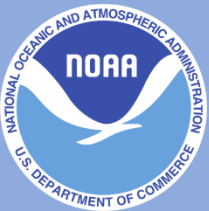
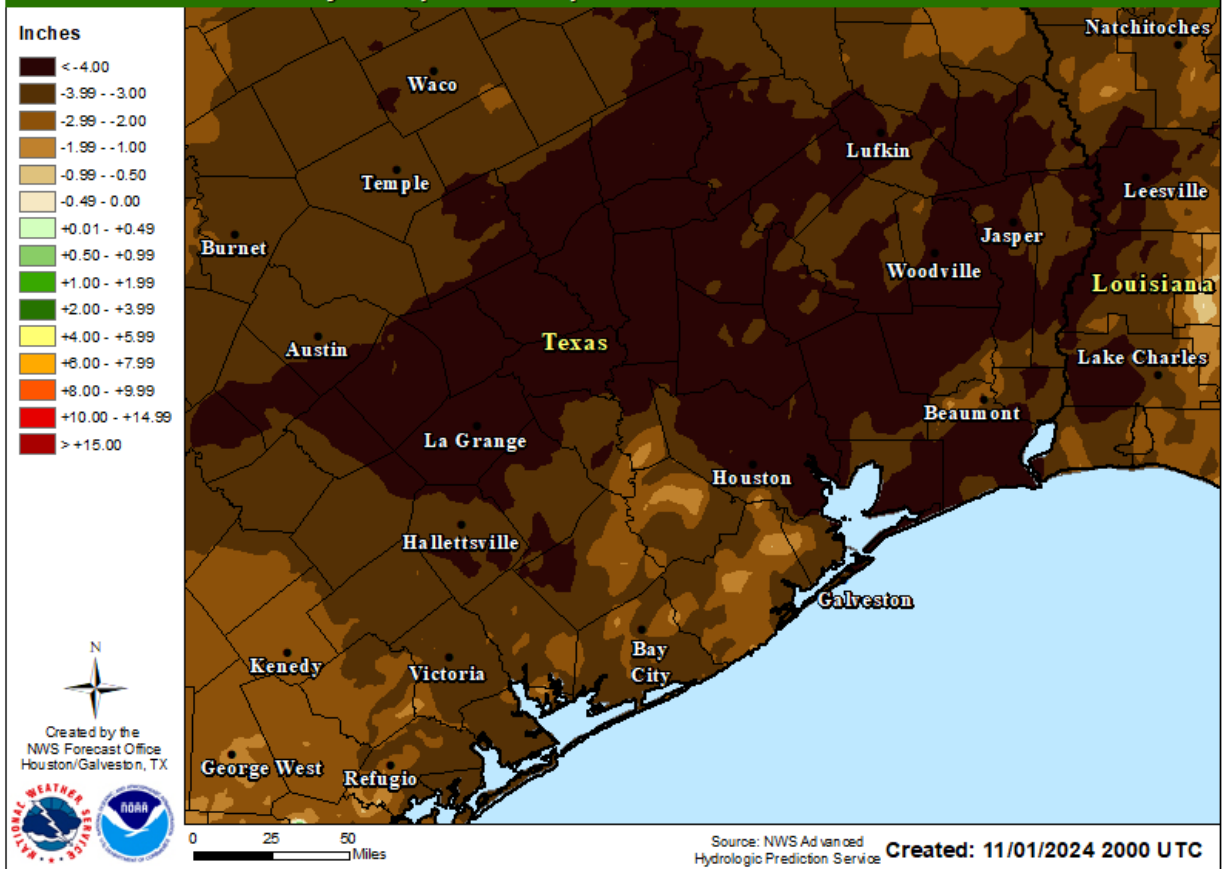


# Precipitation Maps

### Total Monthly Precipitation - October 2024



### Total Monthly Precipitation Departure From Normal - October 2024

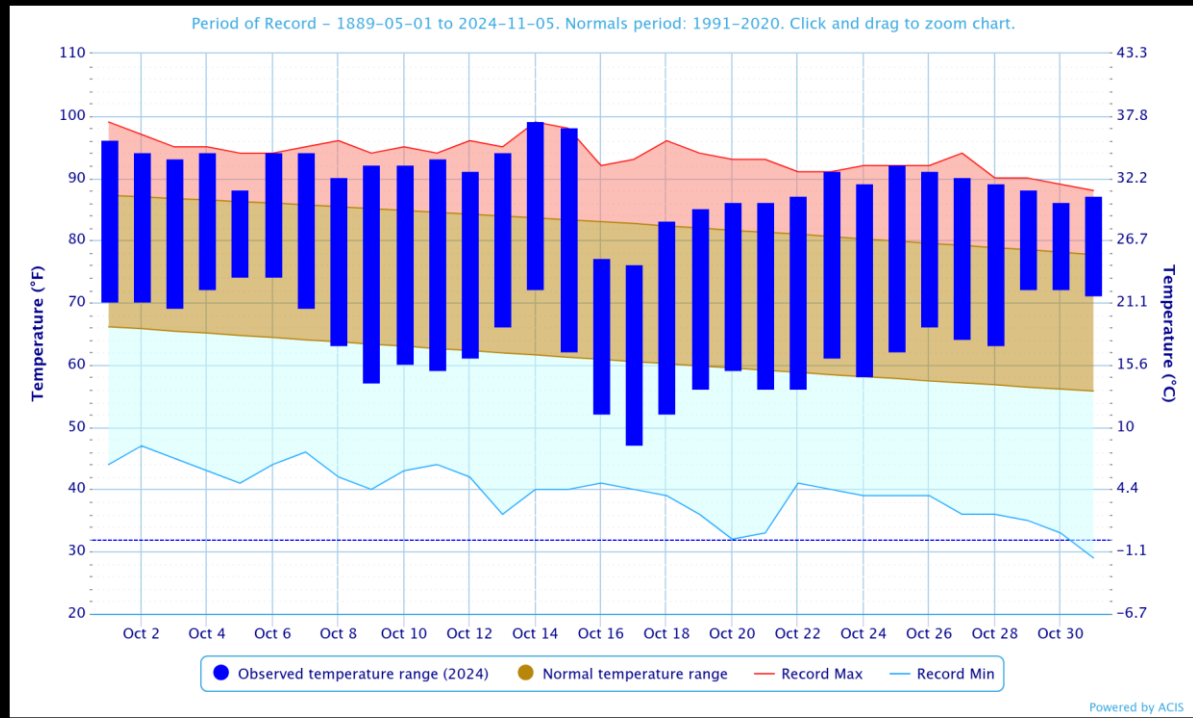


# Temperature

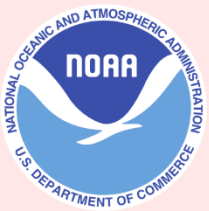
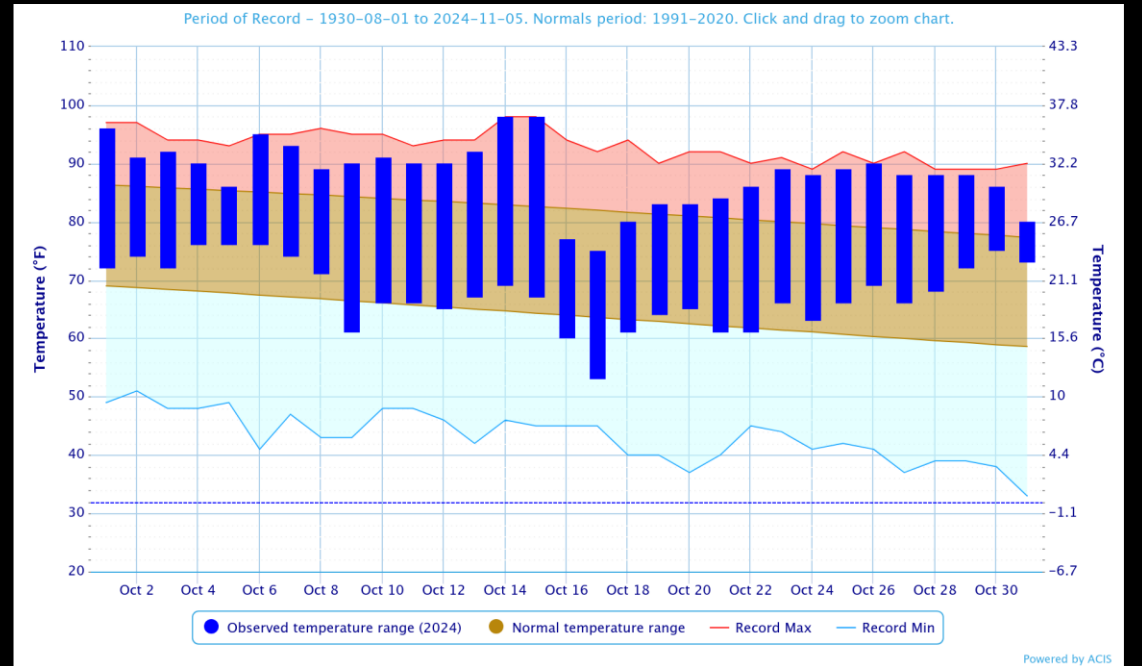
Location	Average High Temp (F)	Average Low Temp (F)	Average Temp (F)	Departure From Normal Average (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	84.8	71.7	78.3	<b>+3.0</b>	92 on the 1 <sup>st</sup>	59 on the 17 <sup>th</sup>
Houston Hobby (HOU)	88.2	67.6	77.9	<b>+4.9</b>	98 on the 14 <sup>th</sup> & 15 <sup>th</sup>	53 on the 17 <sup>th</sup>
City of Houston (IAH)	89.8	63.4	76.6	<b>+4.8</b>	99 on the 14 <sup>th</sup>	47 on the 17 <sup>th</sup>
College Station (CLL)	91.2	65.0	78.1	<b>+7.0</b>	98 on the 13 <sup>th</sup> & 15 <sup>th</sup>	49 on the 17 <sup>th</sup>
Palacios (PSX)	87.6	65.5	76.6	<b>+2.7</b>	97 on the 14 <sup>th</sup>	54 on the 9 <sup>th</sup>

# Temperature Charts

## City of Houston

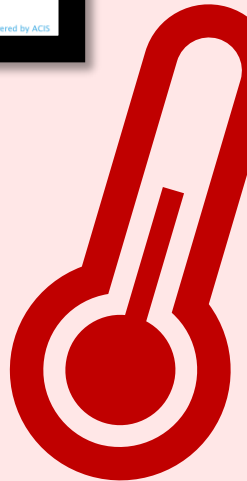
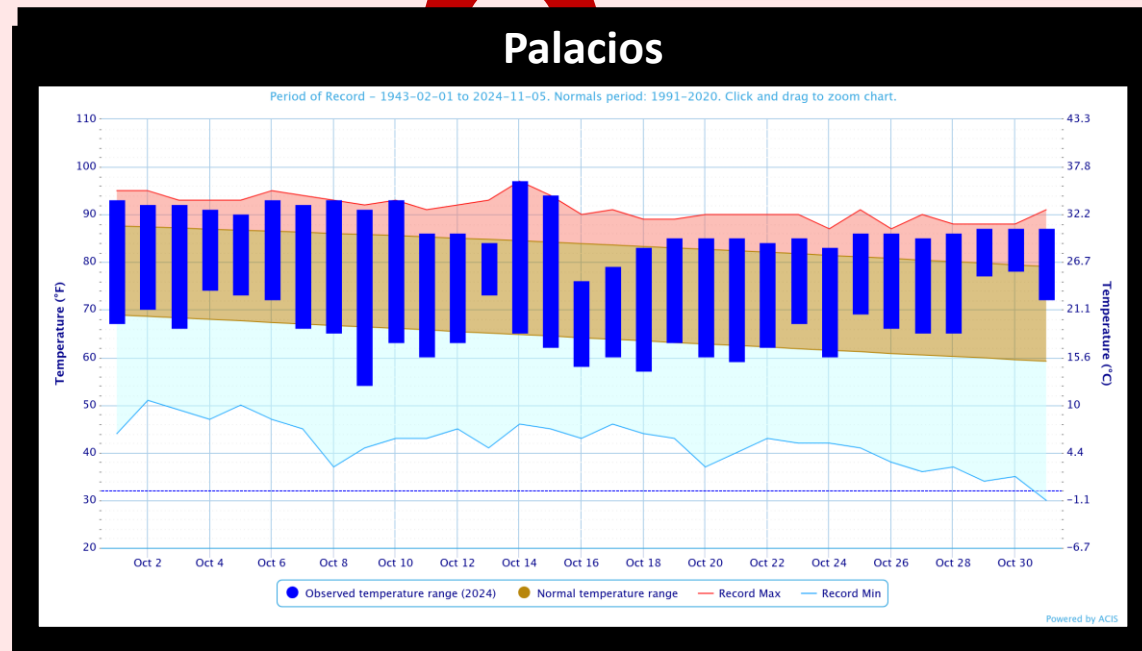
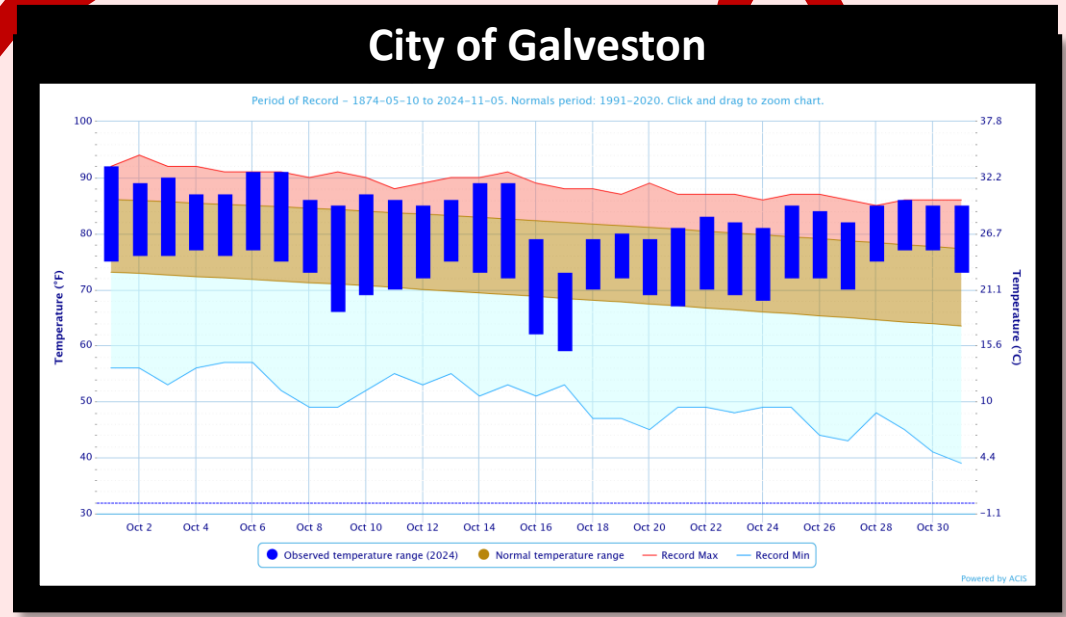
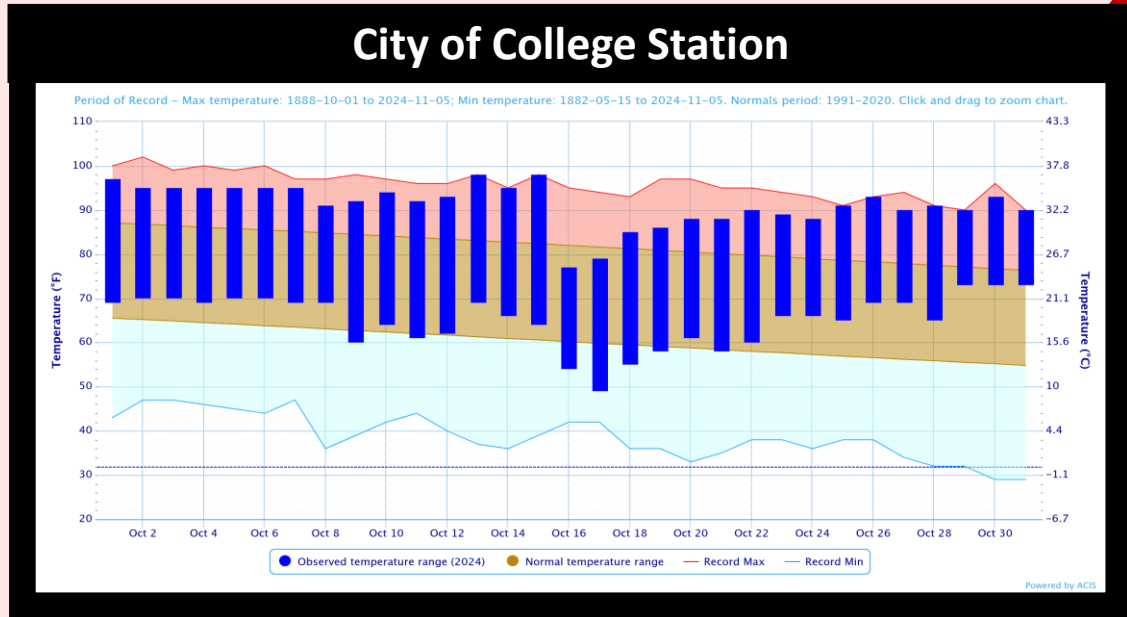


## Houston-Hobby





# Temperature Charts



# Daily Record Reports – City of College Station

Date	Record Type	New Record	Previous Record
13 <sup>th</sup>	High Maximum	98°F	95°F in 1954
14 <sup>th</sup>	High Maximum	95°F – T	95°F in 1948
15 <sup>th</sup>	High Maximum	98°F	96°F in 1910
25 <sup>th</sup>	High Maximum	91°F – T	91°F in 1992
26 <sup>th</sup>	High Maximum	93°F	92°F in 1939
28 <sup>th</sup>	High Maximum	91°F – T	91°F in 1917
29 <sup>th</sup>	High Maximum	90°F – T	90°F in 1938
29 <sup>th</sup>	High Minimum	73°F – T	73°F in 1929
31 <sup>st</sup>	High Maximum	90°F – T	90°F in 1927
31 <sup>st</sup>	High Minimum	73°F – T	73°F in 1984

There were 10 daily record set at College Station this month.



## Key

High Max

Low Max

Rainfall

Snow

High Min

Low Min

# Daily Record Reports – City of Houston

Date	Record Type	New Record	Previous Record
6 <sup>th</sup>	High Maximum	94°F – T	94°F in 1928
14 <sup>th</sup>	High Maximum	99°F	92°F in 2015
15 <sup>th</sup>	High Maximum	98°F	92°F in 2019
23 <sup>rd</sup>	High Maximum	91°F – T	91°F in 2020
25 <sup>th</sup>	High Maximum	92°F	91°F in 2021

There were 5 daily records set at Houston this month.



Key

High Max

Low Max

Rainfall

Snow

High Min

Low Min

# Daily Record Reports – Houston-Hobby

Date	Record Type	New Record	Previous Record
6 <sup>th</sup>	High Maximum	95°F	92°F in 2018
14 <sup>th</sup>	High Maximum	98°F	93°F in 1954
15 <sup>th</sup>	High Maximum	98°F	93°F in 2021
26 <sup>th</sup>	High Maximum	90°F – T	90°F in 2010

There were 4 daily records set at Houston-Hobby this month.



High Max

Low Max

Rainfall

Snow

High Min

Low Min



Key

# Daily Record Reports – City of Galveston

Date	Record Type	New Record	Previous Record
1 <sup>st</sup>	High Maximum	92°F	91°F in 1938
6 <sup>th</sup>	High Maximum	91°F – T	91°F in 1897
7 <sup>th</sup>	High Maximum	91°F – T	91°F in 2019
28 <sup>th</sup>	High Maximum	85°F – T	85°F in 2023
29 <sup>th</sup>	High Maximum	86°F – T	86°F in 2023

There were 5  
5daily record  
set at  
Galveston this  
month.



Key

High Max

Low Max

Rainfall

Snow

High Min

Low Min

# Daily Record Reports – Palacios

Date	Record Type	New Record	Previous Record
8 <sup>th</sup>	High Maximum	93°F	92°F in 1945
10 <sup>th</sup>	High Maximum	93°F	92°F in 2015
14 <sup>th</sup>	High Maximum	97°F	95°F in 1954
15 <sup>th</sup>	High Maximum	94°F	93°F in 1948
18 <sup>th</sup>	High Minimum	77°F – T	77°F in 2004
18 <sup>th</sup>	High Minimum	78°F – T	78°F in 2004

There were 6 daily records set at Palacios this month.



High Max

Low Max

Rainfall

Snow

High Min

Low Min

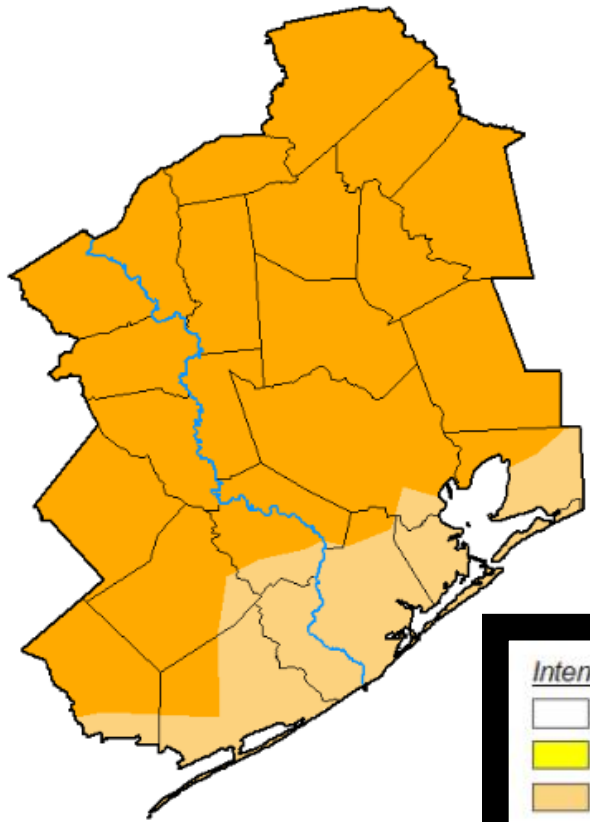


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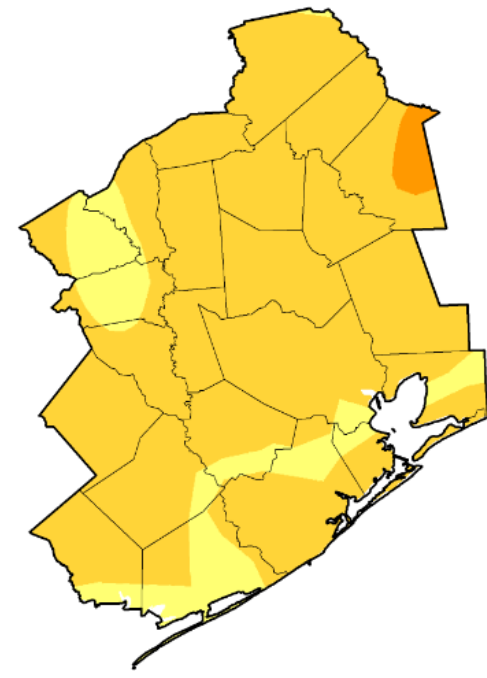
# Drought Monitor

## As of October 29<sup>th</sup>

### U.S. Drought Monitor Houston/Galveston, TX WFO



### U.S. Drought Monitor Class Change - Houston/Galveston, TX WFO 4 Week



October 29, 2024  
compared to  
October 1, 2024



- 5 Class Degradation
- 4 Class Degradation
- 3 Class Degradation
- 2 Class Degradation
- 1 Class Degradation
- No Change
- 1 Class Improvement
- 2 Class Improvement
- 3 Class Improvement
- 4 Class Improvement
- 5 Class Improvement

droughtmonitor.unl.edu

#### Intensity:

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

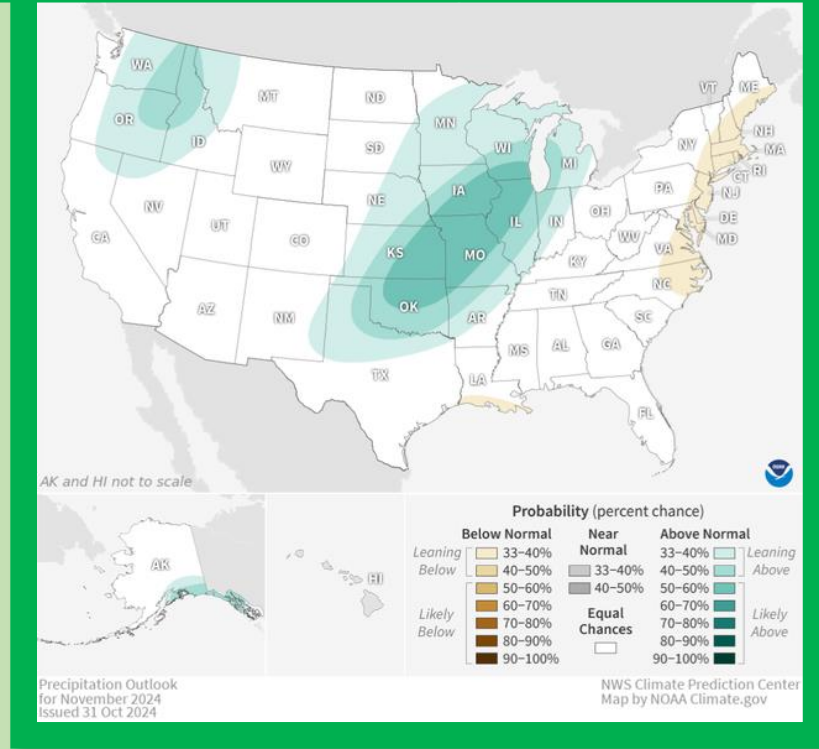
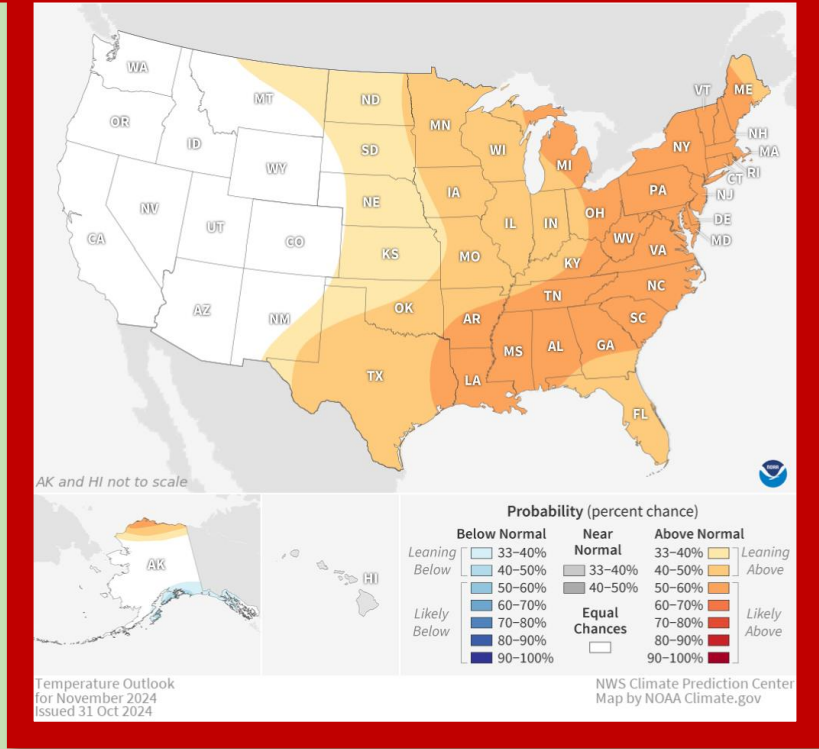
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>



# November Outlook

Location	Average Temp(°F)	Normal High (°F)	Normal Low (°F)
Galveston	65.5	72.4	58.7
Houston Hobby	63.3	72.6	54.0
City of Houston	62.0	72.6	51.5
College Station	60.4	71.1	49.8
Palacios	64.6	74.4	54.8

Location	Normal Monthly Precipitation (in.)
Galveston	4.28
Houston Hobby	3.90
City of Houston	3.87
College Station	3.31
Palacios	3.39

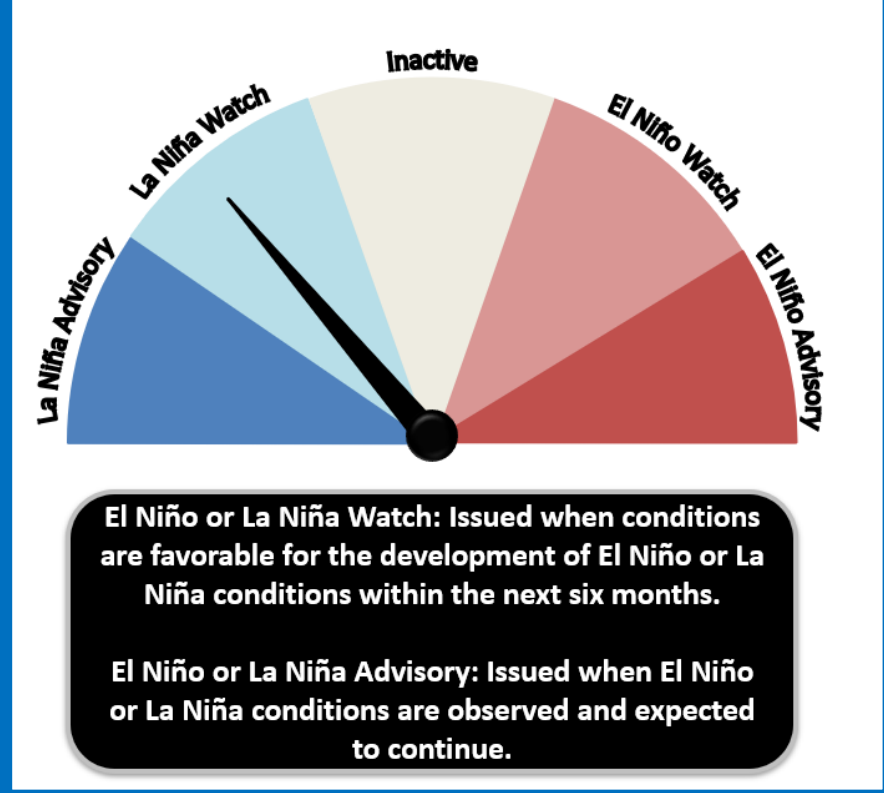
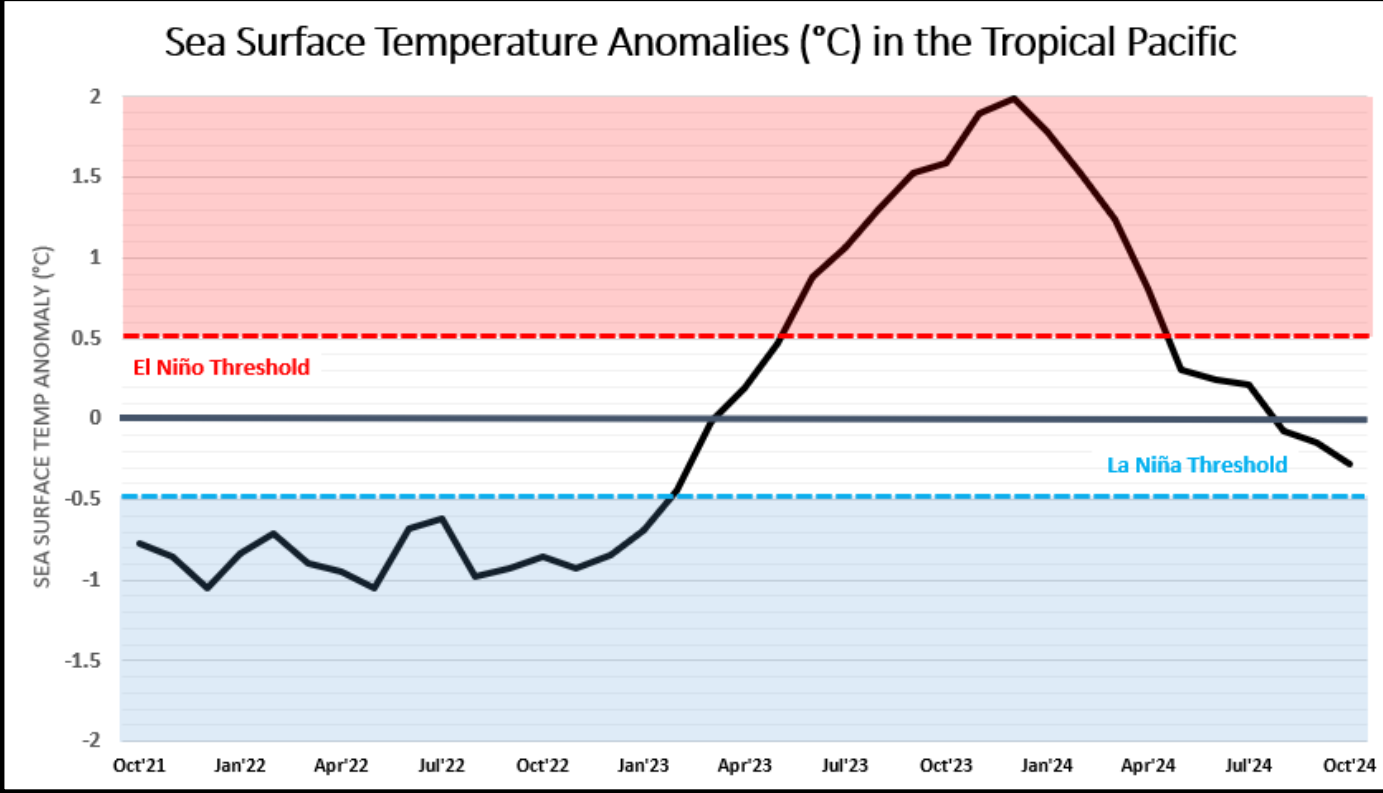




## Current ENSO Phase: Neutral

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

- ENSO-Neutral conditions are present, but are expected to transition to **La Niña** this month (60% chance)
- **La Niña** conditions are expected to continue through the March 2025



# 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.*

