

NWS Houston, Texas September 2024 Regional Climate Summary

Produced by Jimmy Fowler

...Drought Returns as Hot and Dry Weather Persists...

After a few months of little to no Drought conditions, it has begun to return to the region as we continue on a stretch on above normal temperatures and below normal rainfall. The area for this past September was generally around three to five inches below normal, with the exception of the immediate coast that benefited from early month rainfall led that area to get up to two to three inches above normal. Most of the area is now in D0 Drought (Abnormally Dry), with parts of Burleson, Brazos, Washington, and Austin counties in D1 Drought (Moderate).

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By the Numbers: September 2024

Location (records started)	Average Temp	Ranking	Total Rainfall	Ranking
City of Houston, TX (1888)	82.7°F	6 th Warmest	2.53"	47 th Driest
Houston Hobby, TX (1930)	88.1°F	3 rd Warmest	1.60"	15 th Driest
City of Galveston, TX (1871)	82.2°F	27 th Warmest	8.79"	28 th Wettest
City of College Station, TX (1882)	82.8°F	9 th Warmest	0.73"	11 th Driest
Palacios, TX (1943)	81.1°F	21 st Warmest	1.22"	13 th Driest
Huntsville, TX (1997)	79.9°F	14 th Warmest	3.21"	16 th Driest
Sugar Land, TX (2000)	82.5°F	5 th Warmest	1.13"	7 th Driest
Conroe, TX (1997)	79.3°F	10 th Warmest	2.49"	10 th Driest
Clover Field (Pearland), TX (1997)	82.3°F	7 th Warmest	2.18"	9 th Driest
David Wayne Hooks (Tomball), TX (1998)	80.9°F	9 th Warmest	0.73"	3 rd Driest
Angleton, TX (1998)	80.5°F	9 th Warmest	6.53"	9 th Wettest
League City, TX (1990)	80.8°F	9 th Warmest	5.08"	16 th Driest



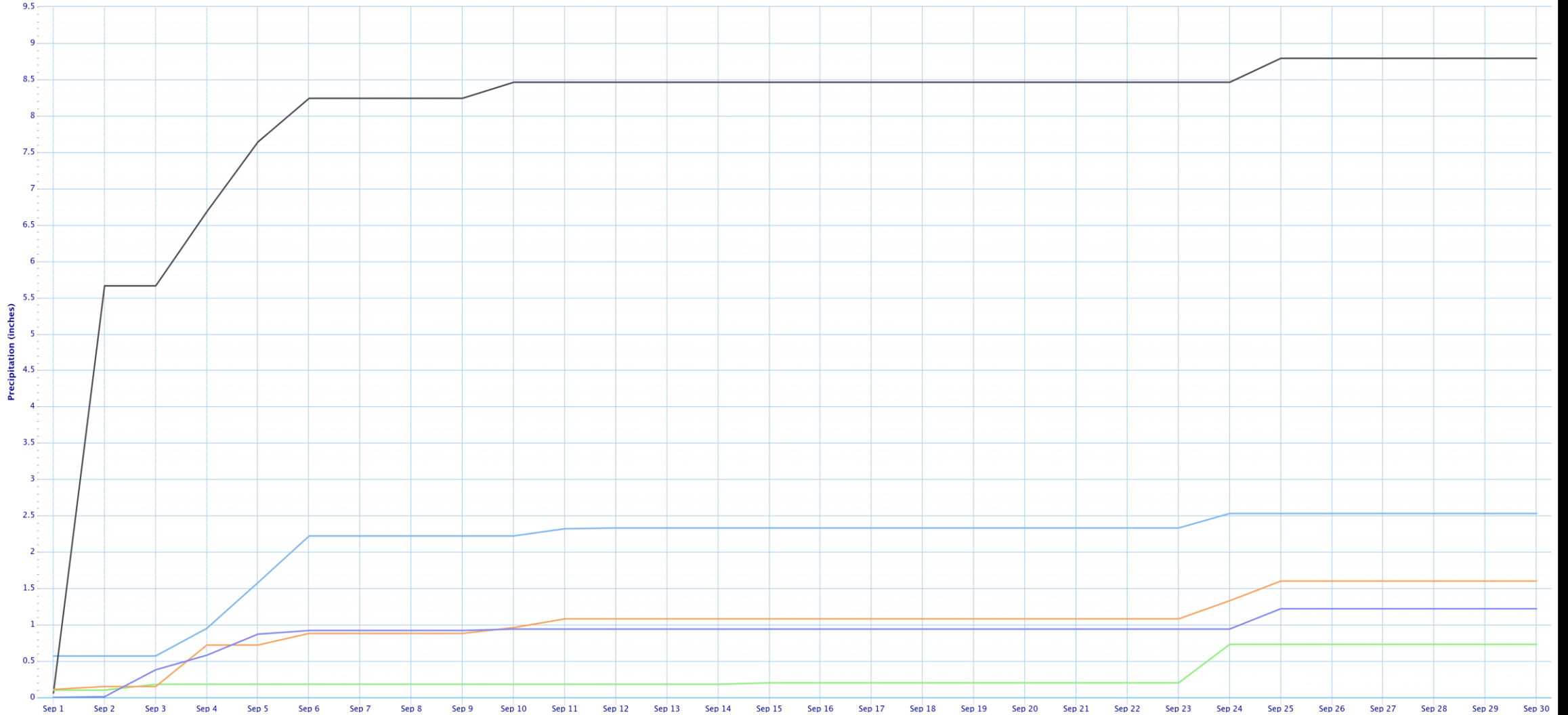
Precipitation

Location	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	8.79	+2.14	3	5.60	2 nd
Houston Hobby (HOU)	1.60	-4.16	1	0.57	4 th
City of Houston (IAH)	2.53	-2.18	1	0.64	6 th
College Station (CLL)	0.73	-2.77	2	0.53	24 th
Palacios (PSX)	1.22	-4.66	2	0.37	3 rd

Precipitation Accumulation Graph

Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



City of Houston

City of Galveston

City of College Station

Houston-Hobby

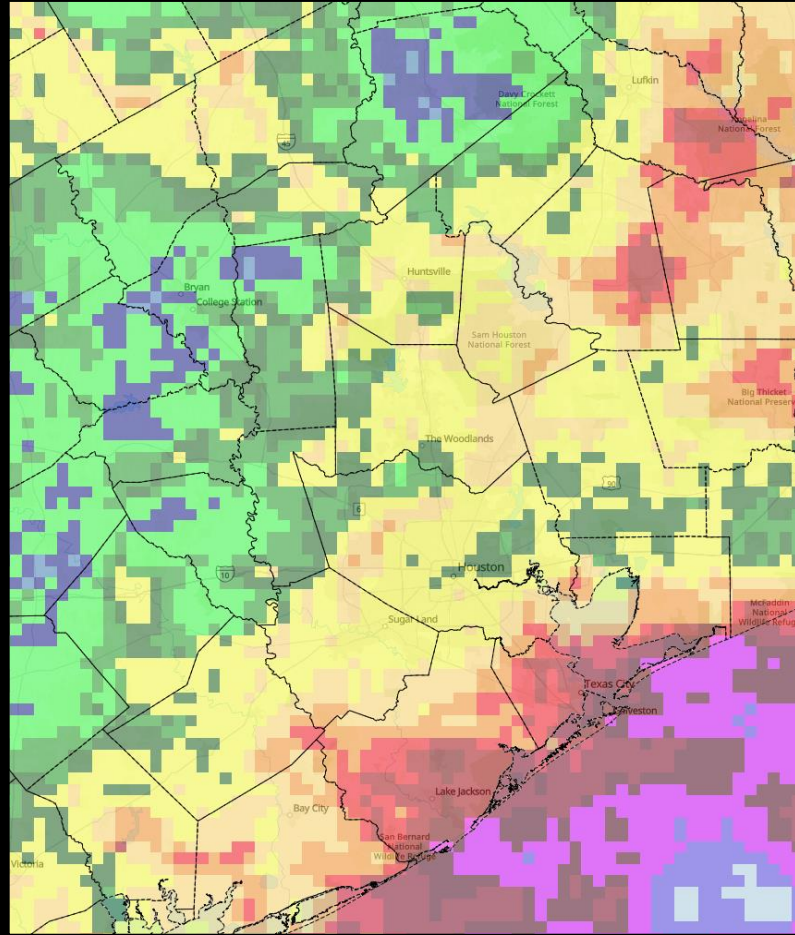
Palacios



Precipitation Maps

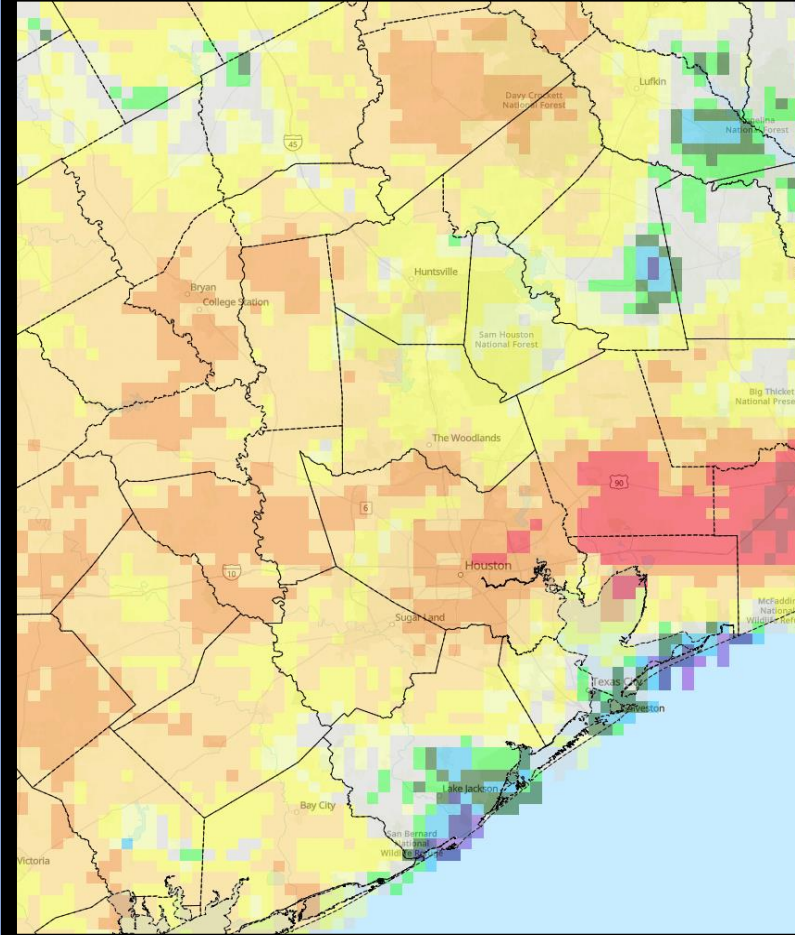
Monthly Total Rainfall

RAINFALL (inches)



Monthly Rainfall Departure from Normal

RAINFALL (inches)

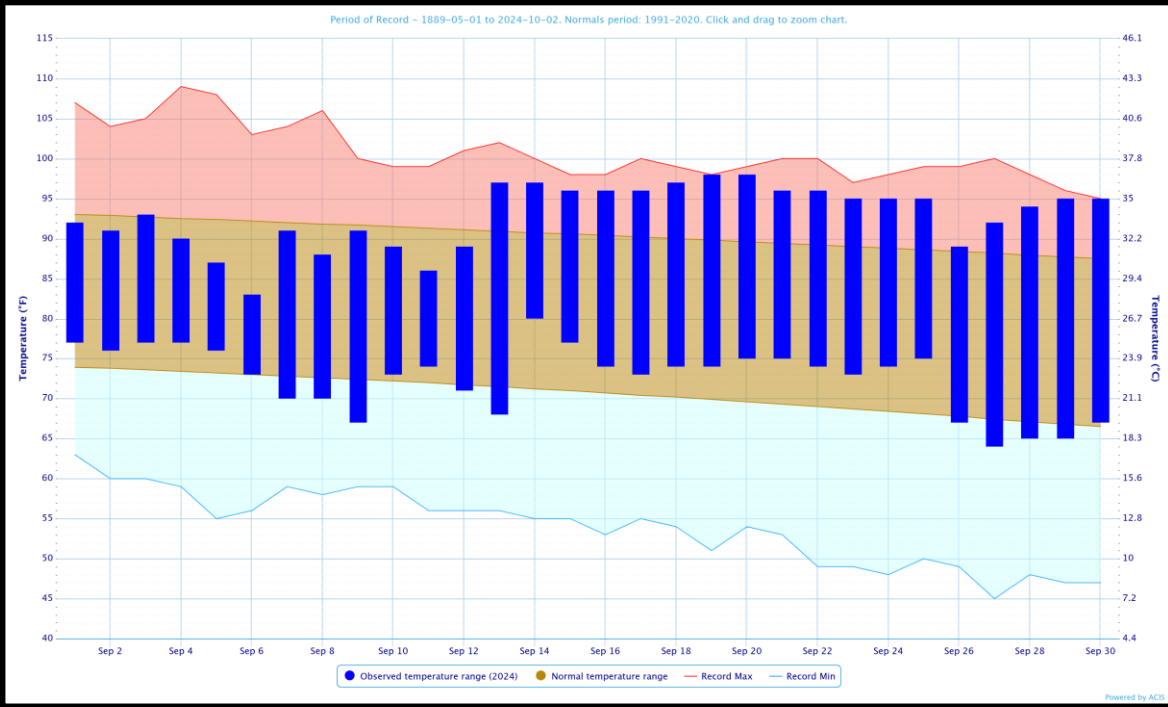


Temperature

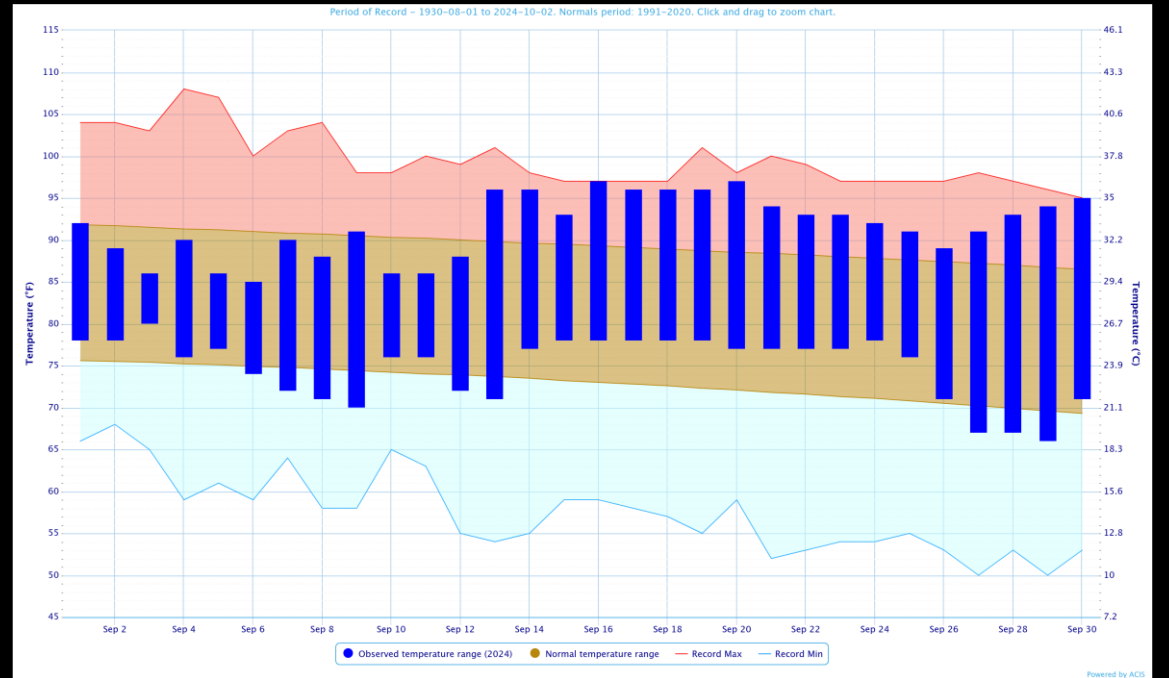
Location	Average High Temp (F)	Average Low Temp (F)	Average Temp (F)	Departure From Normal Average (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	87.8	76.6	82.2	-0.2	92 on the 28 th & 29 th	70 on the 27 th
Houston Hobby (HOU)	91.6	74.7	83.2	+2.1	97 on the 16 th & 20 th	66 on the 29 th
City of Houston (IAH)	92.9	72.5	82.7	+2.2	98 on the 19 th & 20 th	64 on the 27 th
College Station (CLL)	93.7	71.9	82.8	+2.2	99 on the 14 th 15 th & 19 th	62 on the 29 th
Palacios (PSX)	89.0	73.2	81.1	-0.4	94 on the 28 th & 29 th	63 on the 27 th

Temperature Charts

City of Houston

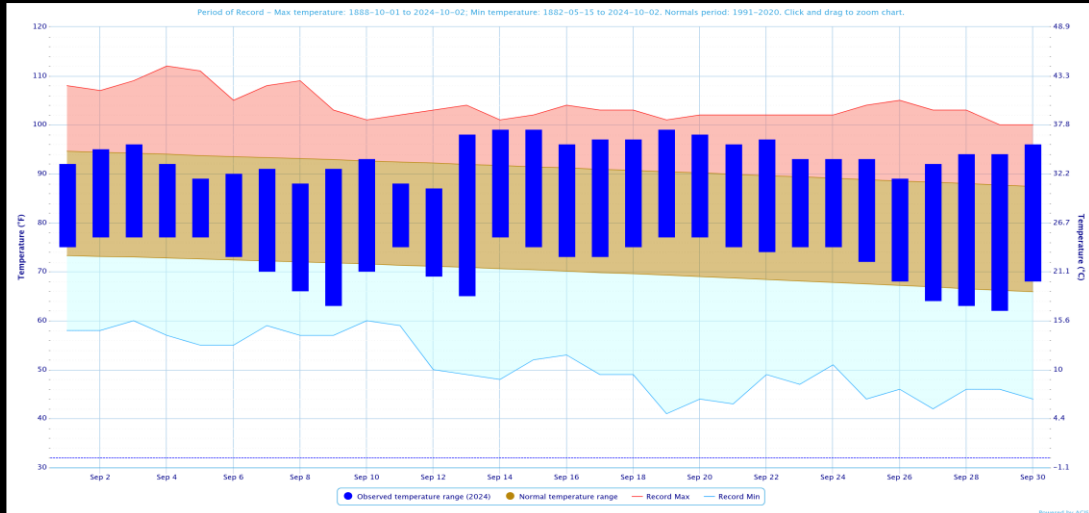


Houston-Hobby

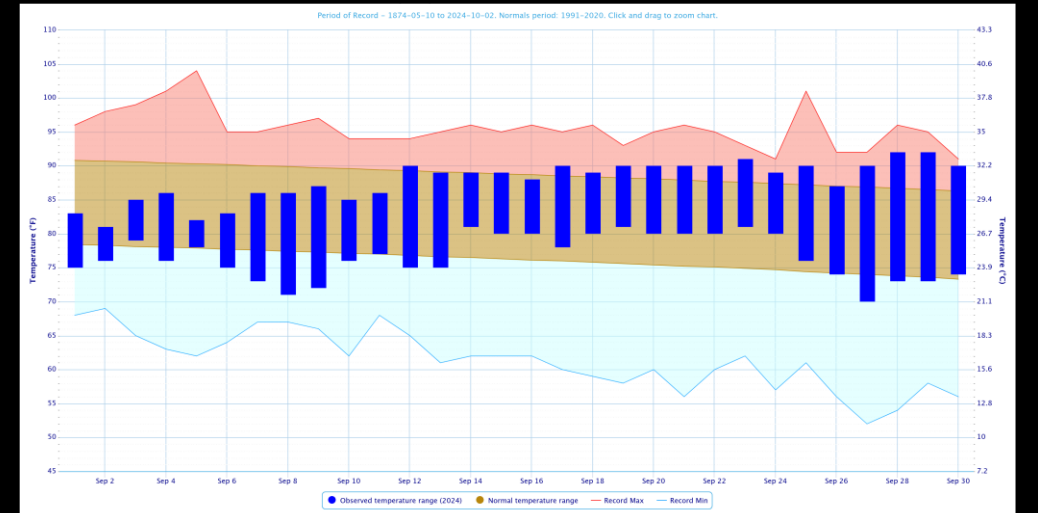


Temperature Charts

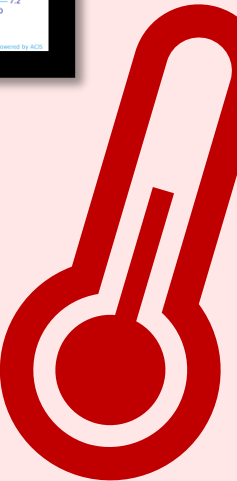
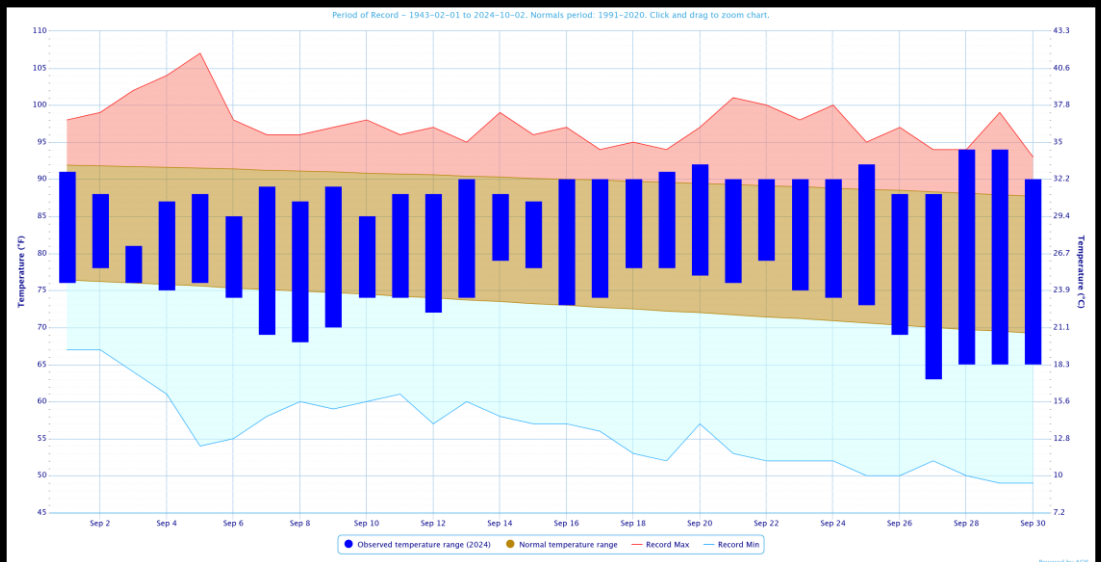
City of College Station



City of Galveston



Palacios



Daily Record Reports – City of College Station

Date	Record Type	New Record	Previous Record
19 th	High Minimum	77°F – T	77°F in 2016

There was 1 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
19 th	High Maximum	98°F	97°F in 1995
30 th	High Maximum	95°F – T	95°F in 2023

There were 2 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
16 th	High Maximum	97°F	96°F in 2020
18 th	High Minimum	78°F	77°F in 2020
24 th	High Minimum	78°F	77°F in 2023
30 th	High Maximum	95°F	94°F in 1998

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
2 nd	Daily Rainfall	5.60"	4.64" in 1941

There was 1 daily 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
28 th	High Maximum	94°F – T	94°F in 2005

There was 1 daily records set at Palacios this month.



High Max

Low Max

Rainfall

Key

Snow

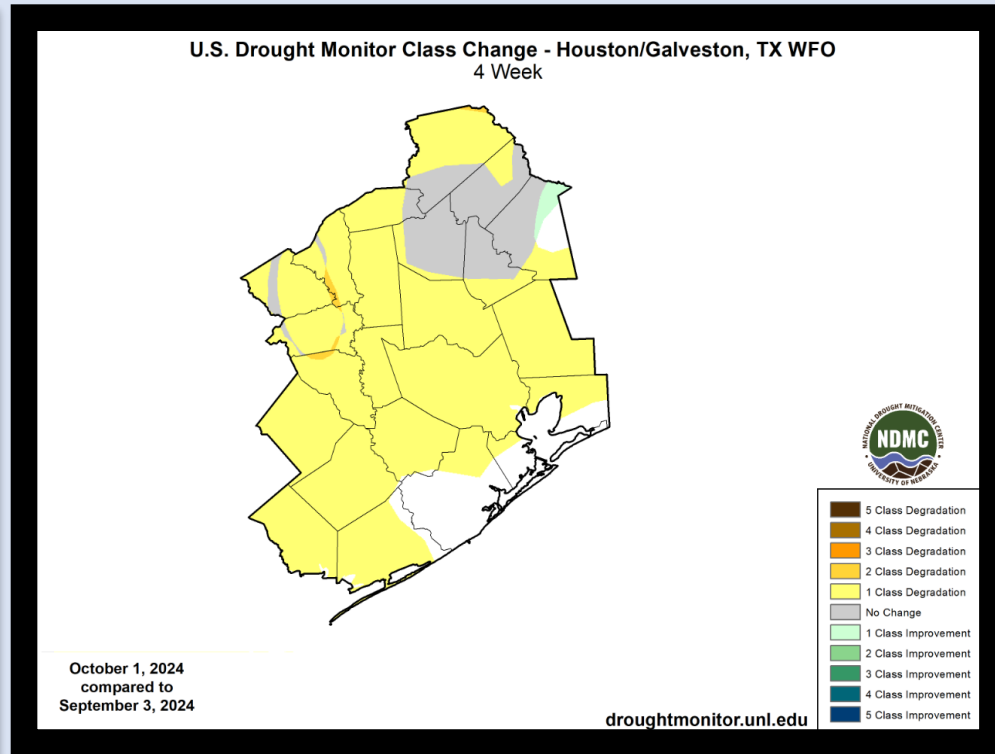
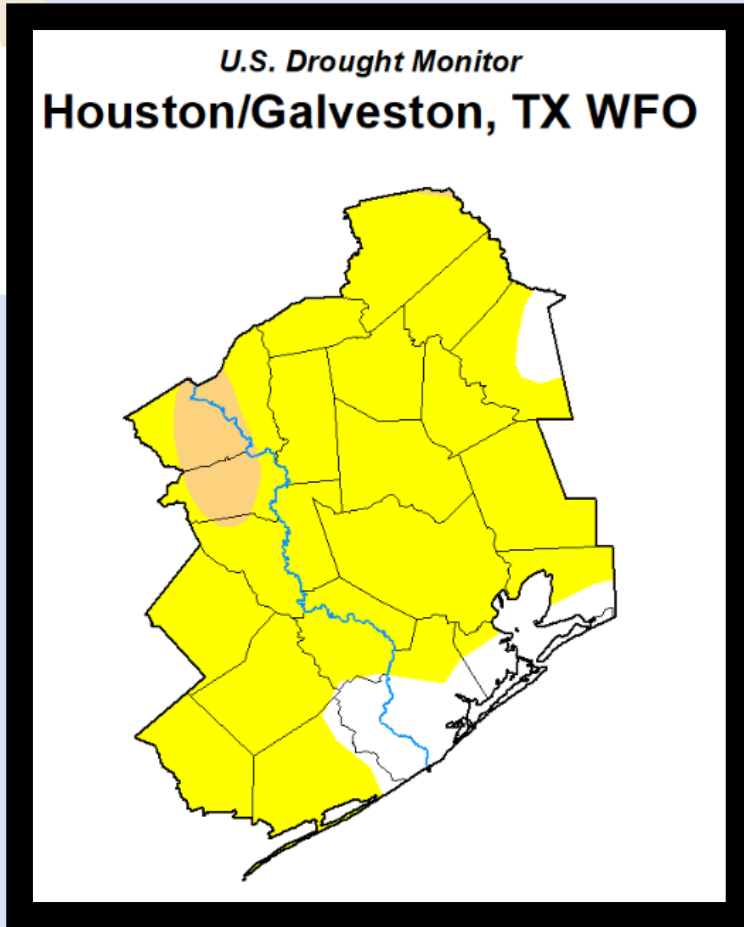
High Min

Low Min



Drought Monitor

As of October 1st



Intensity:

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

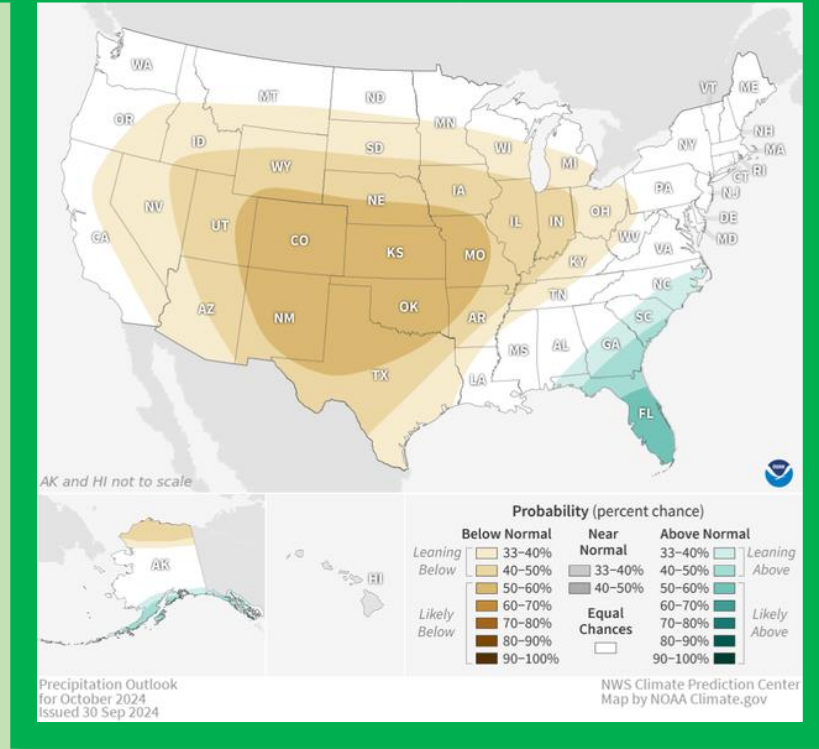
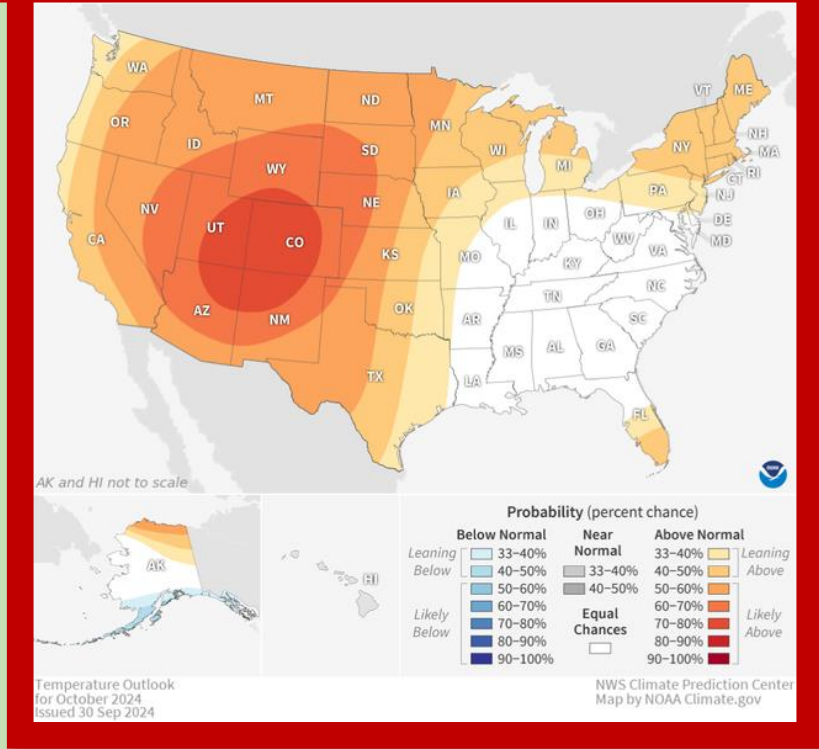
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>



September 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

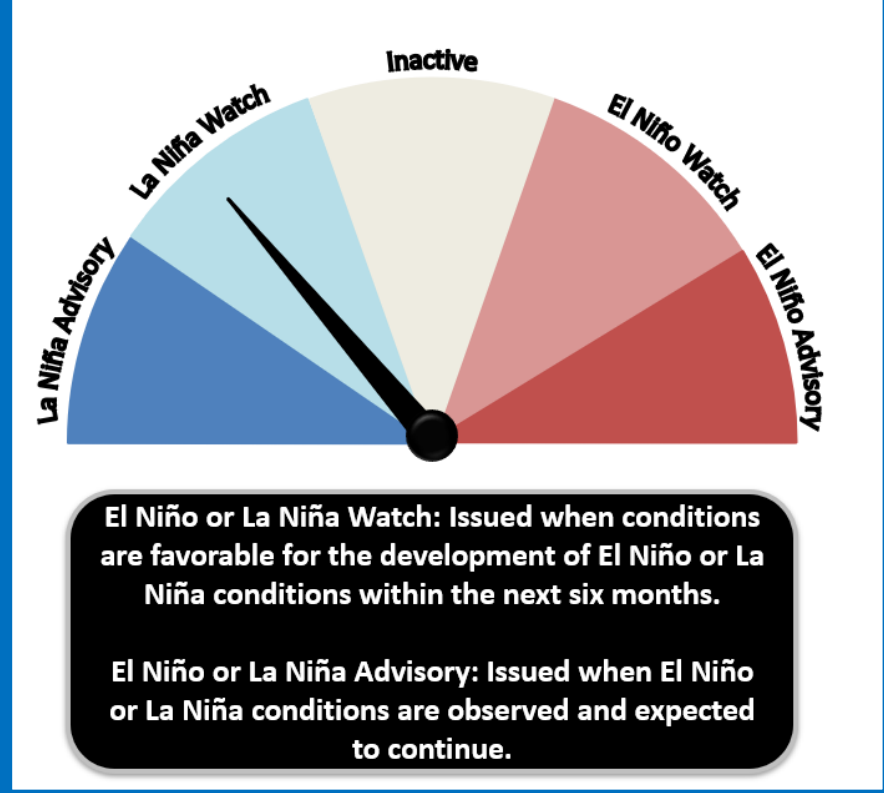
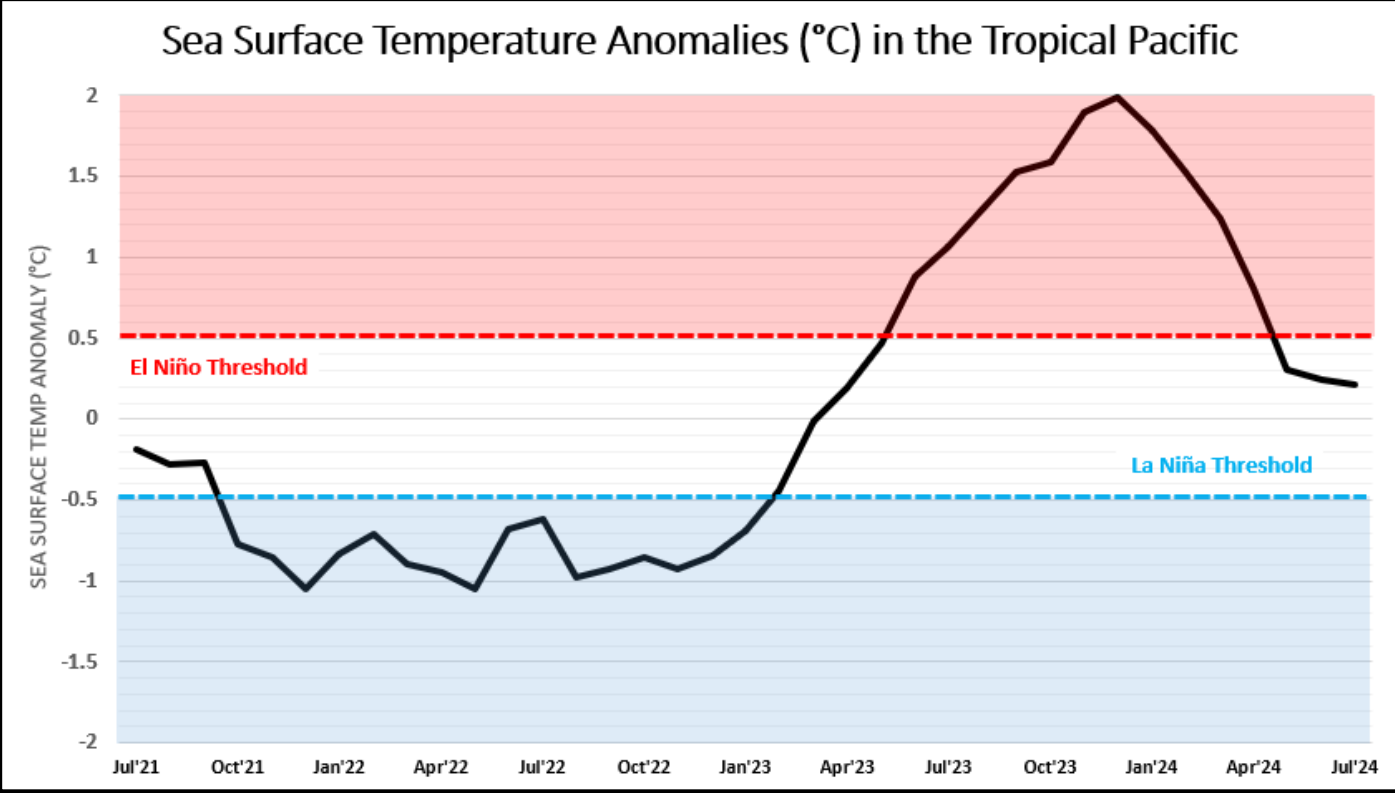
Location	Normal Monthly Precipitation (in.)
Galveston	5.15
Houston Hobby	5.78
City of Houston	5.46
College Station	4.93
Palacios	4.33



Current ENSO Phase: Neutral

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

- ENSO-Neutral conditions are present, but are expected to transition to **La Niña** by November (71% 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.

