

NWS Houston, Texas March 2024 Regional Climate Summary

Produced by Josh Lichter & Jimmy Fowler



...Above normal temperatures with locally heavy rainfall...

The start of Spring brought above normal temperatures and a mix of above and below precipitation due to scattered strong thunderstorms. Drought-free conditions persist across SE Texas. The transition from El Nino conditions to La Nina conditions continues with La Nina conditions expected to peak during the summer/fall.

Table of Contents

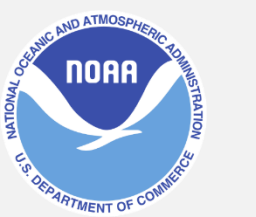
Page Number	Page Title
1	Cover
2	Table of Contents
3	By the Numbers
4	Precipitation Summary
5	Precipitation Graph
6	Precipitation Imagery
7	Temperature Summary
8 – 9	Temperature Charts
10 – 14	Daily Record Reports
15	Drought Monitor
16	Next Month Outlook
17	ENSO Review
18	Climate Primary Site History



By the Numbers: March 2024



Location (records started)	Average Temp	Ranking	Total Rainfall	Ranking
City of Houston, TX (1888)	66.6°F	22 nd Warmest	2.20"	52 nd Driest
Houston Hobby, TX (1930)	67.9°F	7 th Warmest	2.63"	37 th Wettest
City of Galveston, TX (1871)	66.8°F	15 th Warmest	4.40"	29 th Wettest
City of College Station, TX (1882)	65.6°F	17 th Warmest	1.62"	39 th Driest
Palacios, TX (1943)	67.2°F	12 th Warmest	1.91"	38 th Wettest
Huntsville, TX (1997)	64.7°F	11 th Warmest	2.08"	8 th Driest
Sugar Land, TX (2000)	67.1°F	6 th Warmest	2.59"	11 th Wettest
Conroe, TX (1997)	64.0°F	9 th Warmest	1.82"	7 th Driest
Clover Field (Pearland), TX (1997)	66.6°F	8 th Warmest	2.12"	12 th Wettest
David Wayne Hooks (Tomball), TX (1998)	66.7°F	7 th Warmest	4.28"	8 th Wettest
Angleton, TX (1998)	66.2°F	9 th Warmest	3.89"	7 th Wettest
League City, TX (1990)	65.8°F	8 th Warmest	3.88"	10 th Wettest



Precipitation

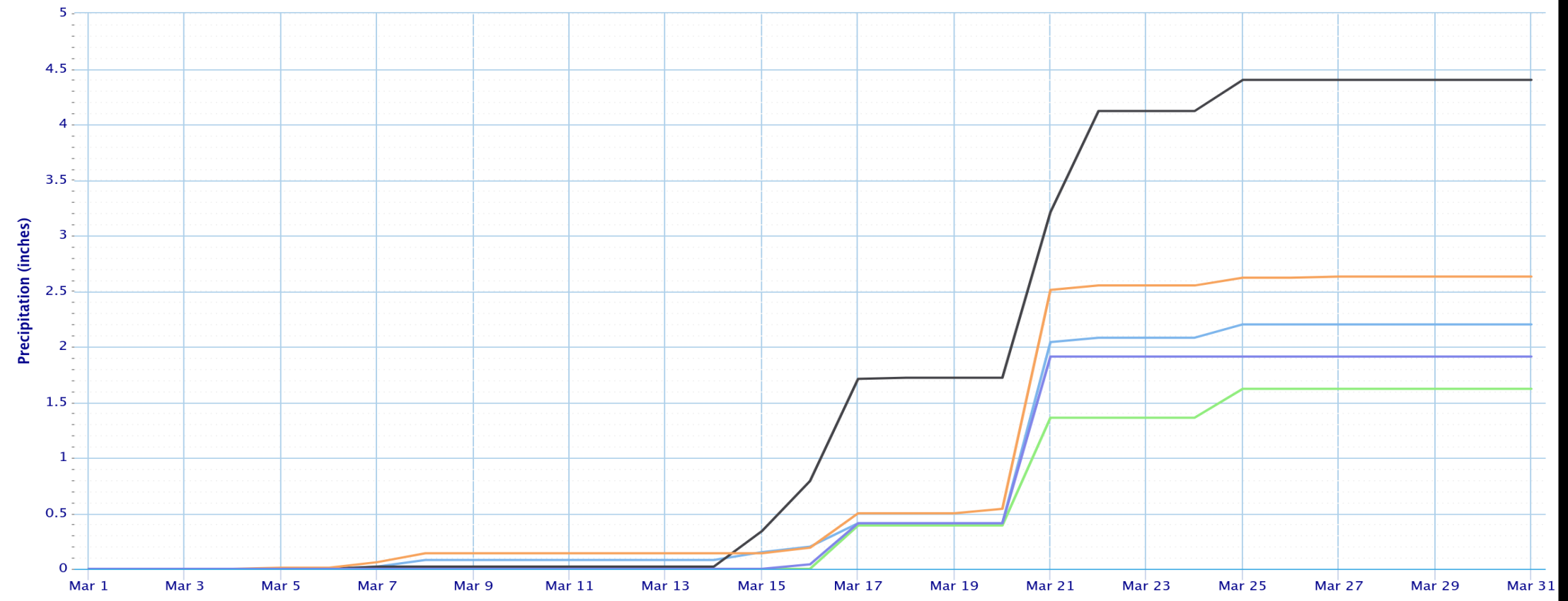
Location	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	4.40	+1.38	6	1.49	21 st
Houston Hobby (HOU)	2.63	-0.65	5	1.97	21 st
City of Houston (IAH)	2.20	-1.27	5	1.63	21 st
College Station (CLL)	1.62	-1.79	3	0.97	21 st
Palacios (PSX)	1.91	-0.80	5	1.50	21 st



Precipitation Accumulation Graph

Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

— Houston Area, TX (ThreadEx):Precip
 — Galveston Area, TX (ThreadEx):Precip
 — College Station Area, TX (ThreadEx):Precip
 — HOUSTON WILLIAM P HOBBY AP, TX:Precip
— PALACIOS MUNICIPAL AP, TX:Precip

Powered by ACIS



City of Houston

City of Galveston

City of College Station

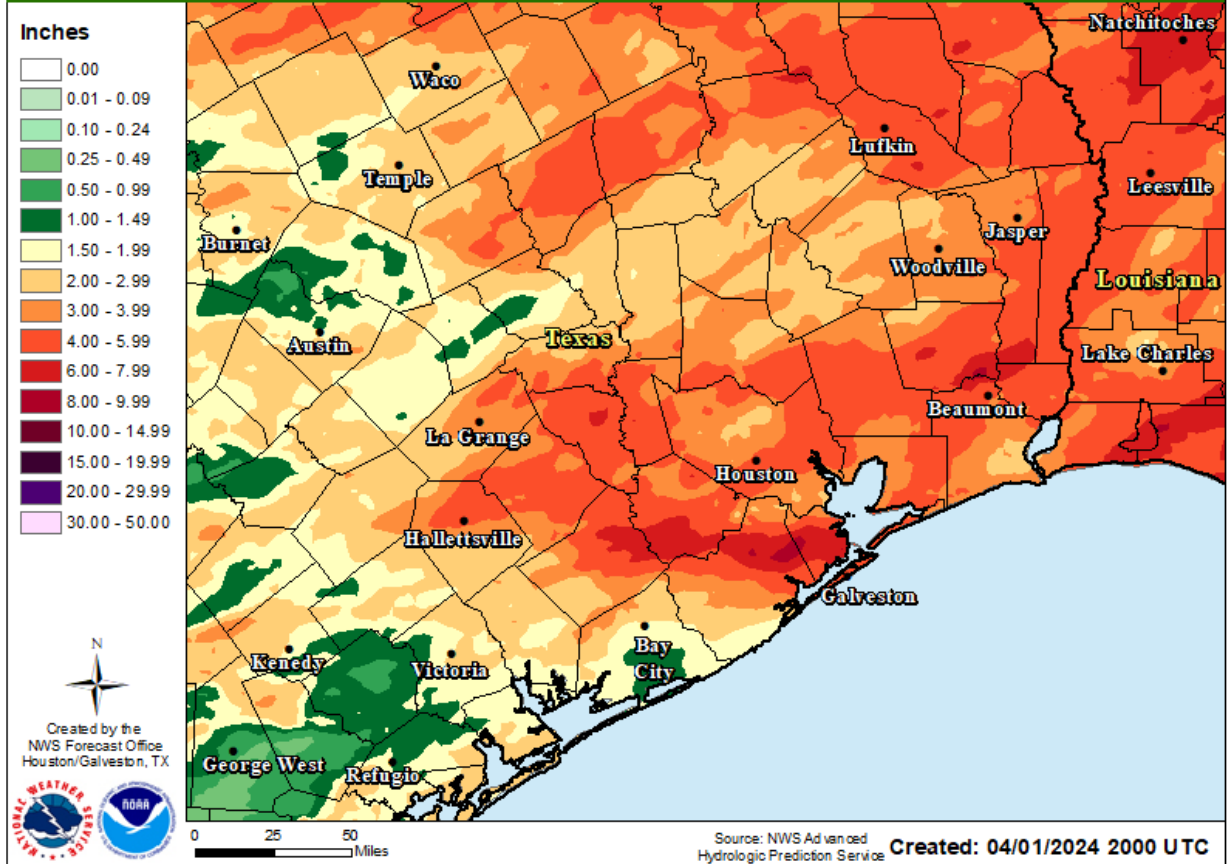
Houston-Hobby

Palacios

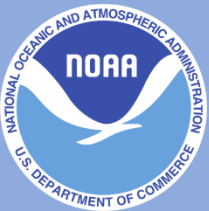
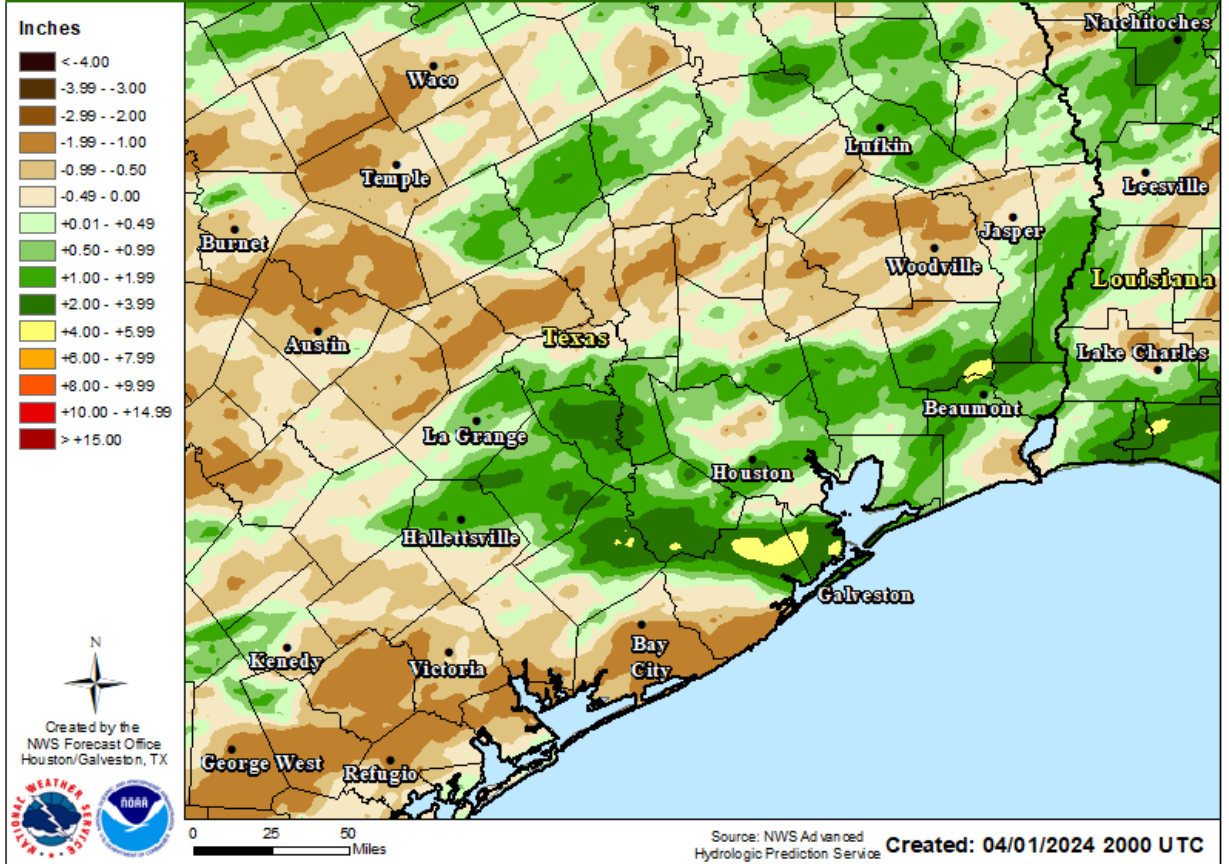


Precipitation Maps

Total Monthly Precipitation - March 2024



Total Monthly Precipitation Departure From Normal - March 2024

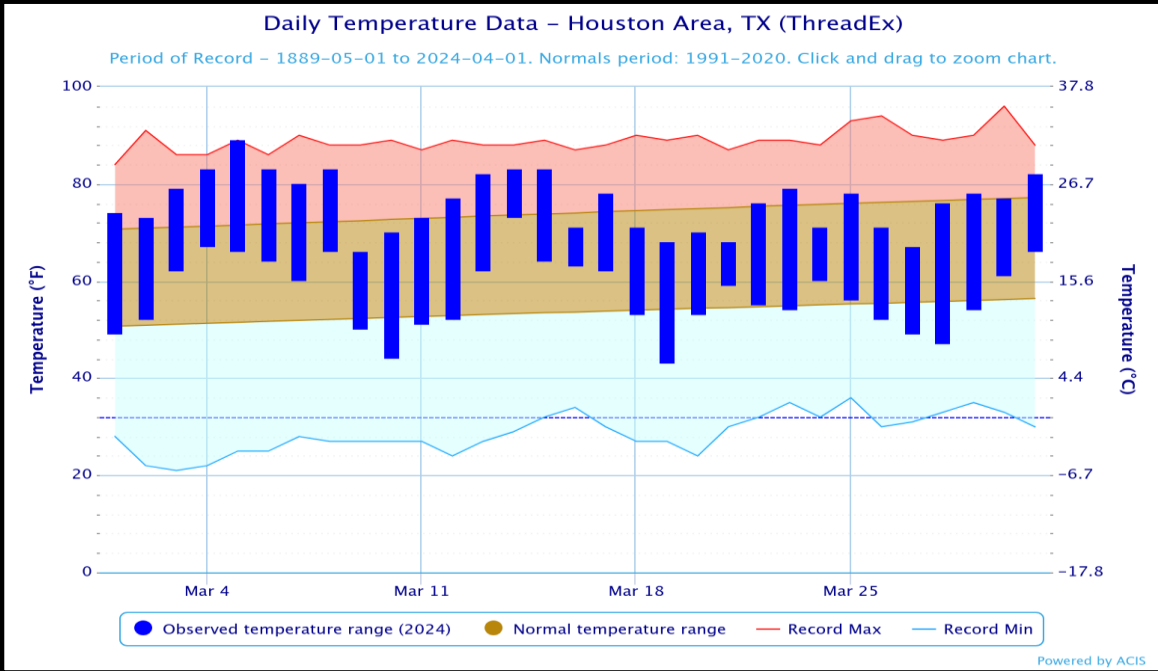


Temperature

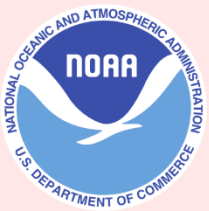
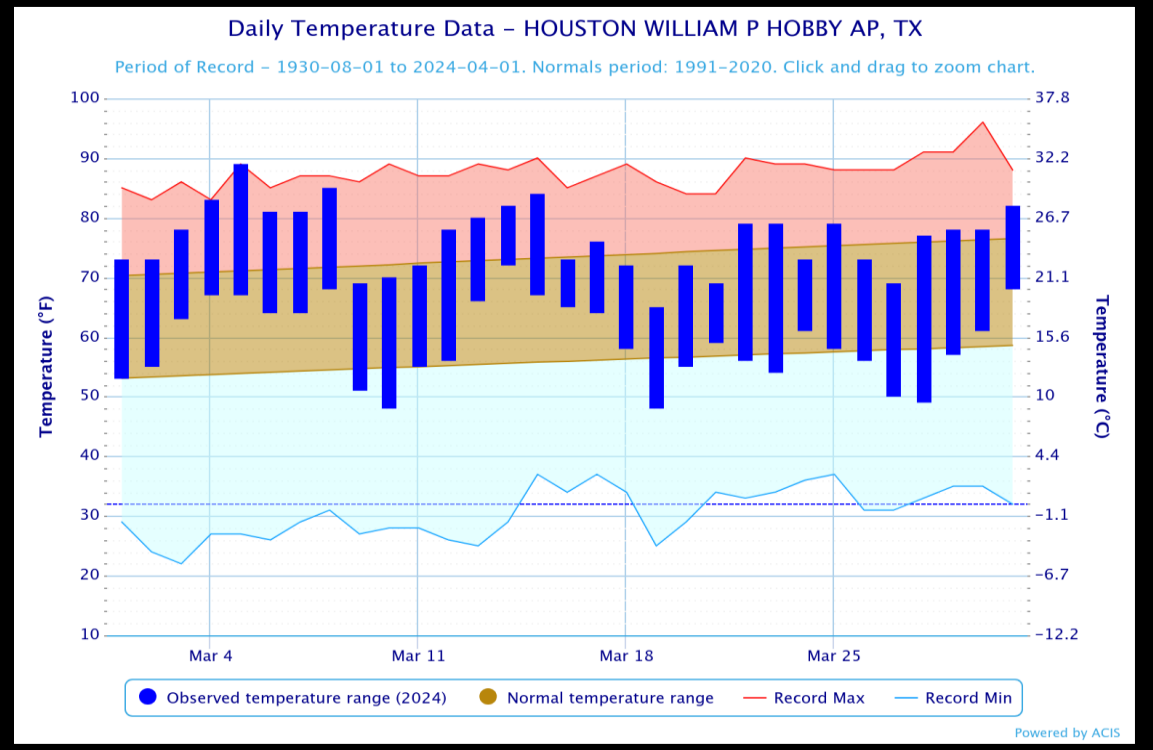
Location	Average High Temp (F)	Average Low Temp (F)	Average Temp (F)	Departure From Normal Average (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	72.2	61.4	66.8	+1.6	79 on the 15 th & 22 nd	52 on the 19 th
Houston Hobby (HOU)	76.5	59.2	67.9	+3.2	89 on the 5 th	48 on the 10 th & 19 th
City of Houston (IAH)	76.1	57.1	66.6	+2.8	89 on the 5 th	43 on the 19 th
College Station (CLL)	75.4	55.9	65.6	+3.5	90 on the 5 th	41 on the 10 th & 19 th
Palacios (PSX)	74.7	59.7	67.2	+2.2	89 on the 5 th	42 on the 10 th

Temperature Charts

City of Houston

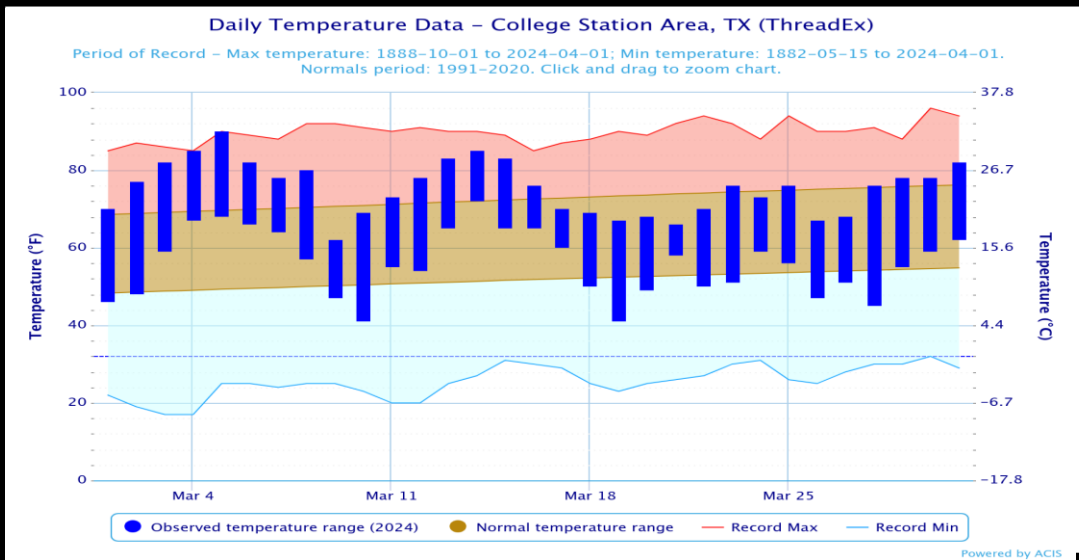


Houston-Hobby

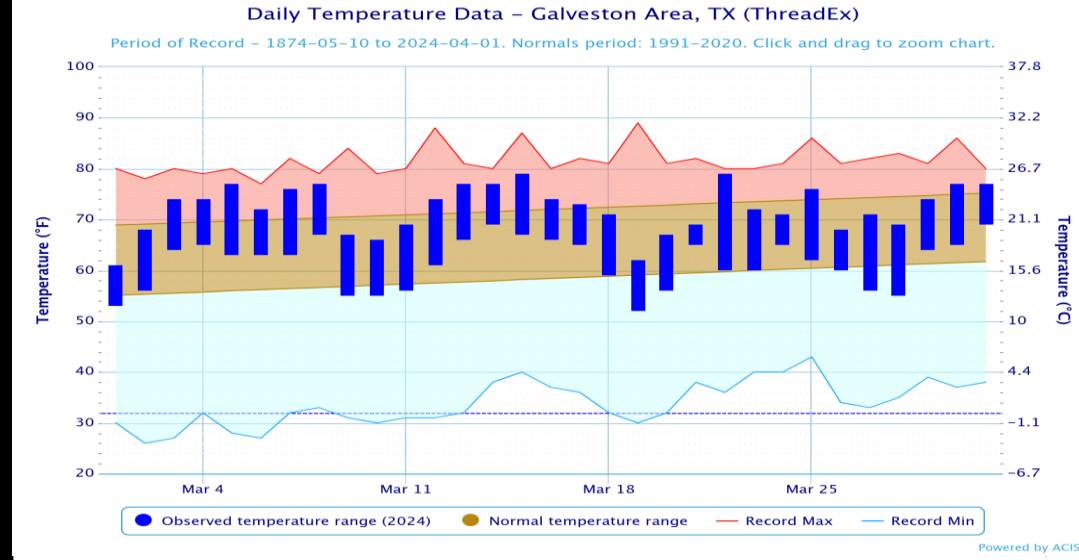


Temperature Charts

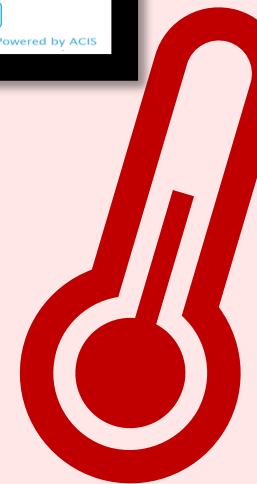
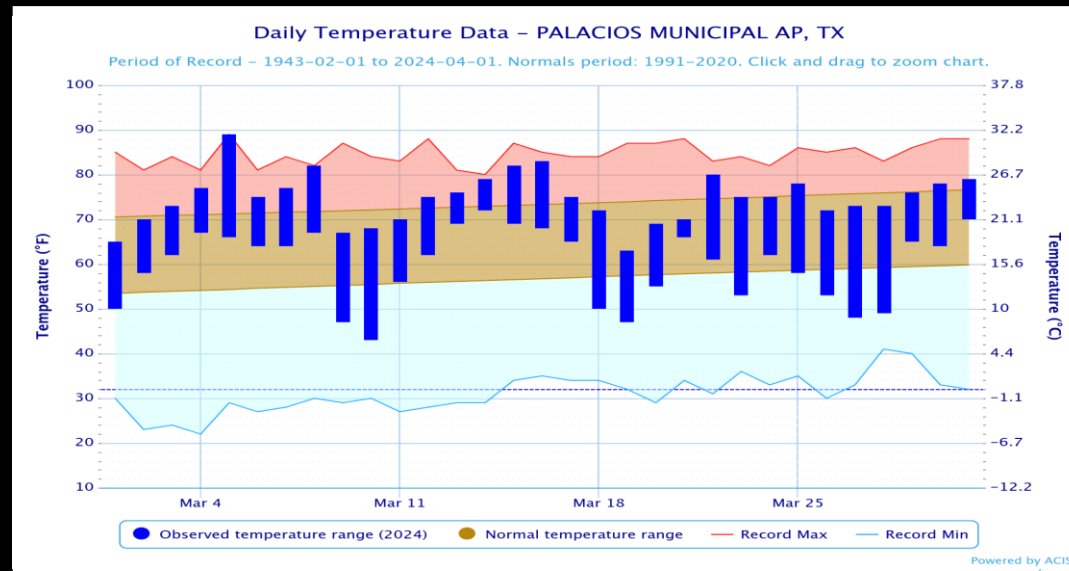
City of College Station



City of Galveston



Palacios



Daily Record Reports – City of College Station

Date	Record Type	New Record	Previous Record
4 th	High Maximum	85°F	85°F in 1938
5 th	High Maximum	90°F	89°F in 1991
14 th	High Minimum	72°F	70°F in 1921

There were 3 daily records set at College Station this month.



Key

High Max

Low Max

Precip

Snow

High Min

Low Min

Daily Record Reports – City of Houston

Date	Record Type	New Record	Previous Record
5 th	High Maximum	89°F	84°F in 1998
14 th	High Minimum	73°F	71°F in 2020
21 st	Precip	1.63"	1.38" in 1893

There were 3 daily records set at Houston this month.



Key

High Max

Low Max

Precip

Snow

High Min

Low Min

Daily Record Reports – Houston-Hobby

Date	Record Type	New Record	Previous Record
4 th	High Maximum	83°F	81°F in 2015
5 th	High Maximum	89°F	86°F in 1967
14 th	High Minimum	72°F	72°F in 2020
21 st	Precip	1.97"	1.59" in 2016

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



High Max

Low Max

Precip

Snow

High Min

Low Min



Key

Daily Record Reports – City of Galveston

Date	Record Type	New Record	Previous Record
------	-------------	------------	-----------------

There were no daily records set this month.

There were no daily records set at Galveston this month.



Key

High Max

Low Max

Precip

Snow

High Min

Low Min

Daily Record Reports – Palacios

Date	Record Type	New Record	Previous Record
5 th	High Maximum	89°F	82°F in 1974
8 th	High Maximum	82°F	82°F in 2023
14 th	High Minimum	72°F	71°F in 2020

There were 3 daily records set at Palacios this month.



High Max

Low Max

Precip

Snow

High Min

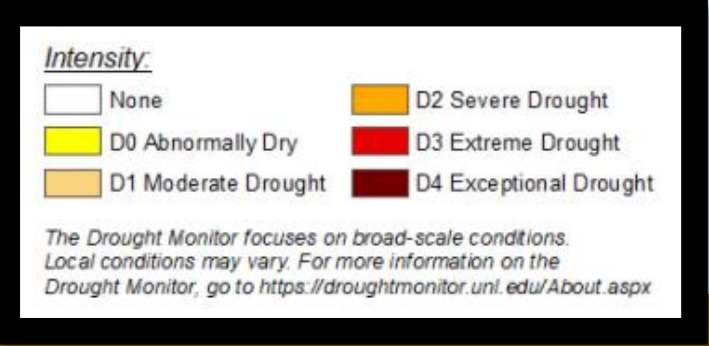
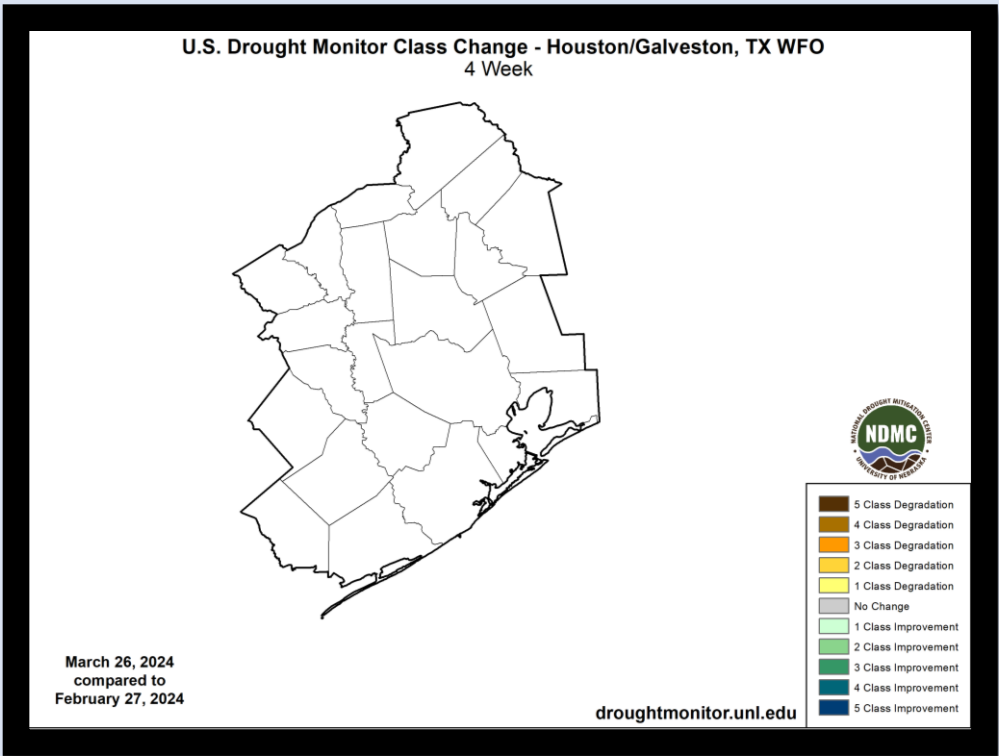
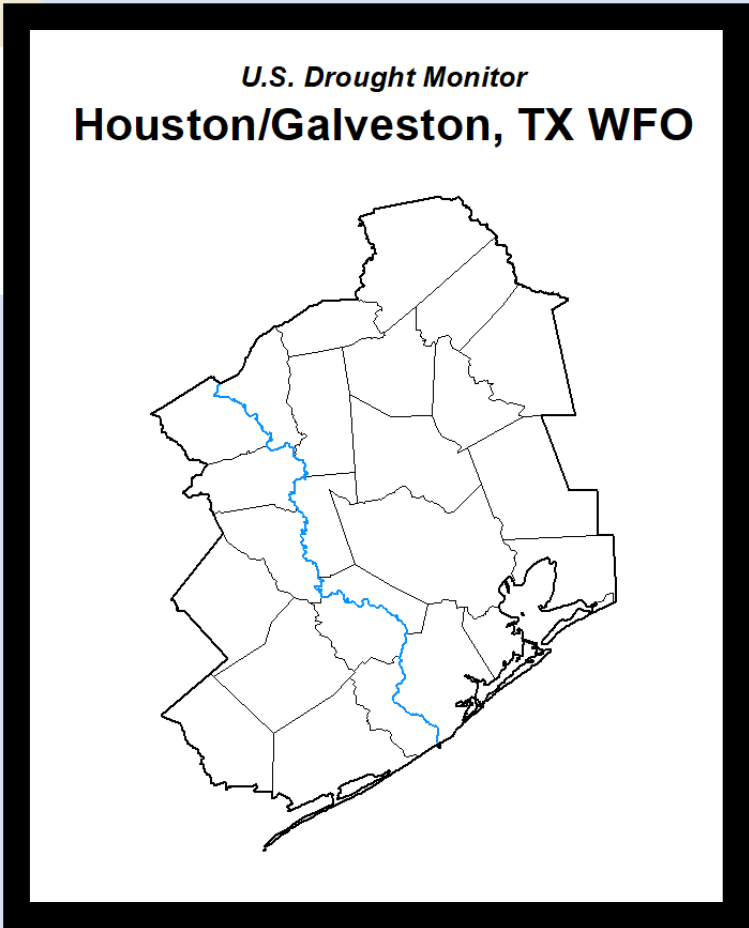
Low Min



Key

Drought Monitor

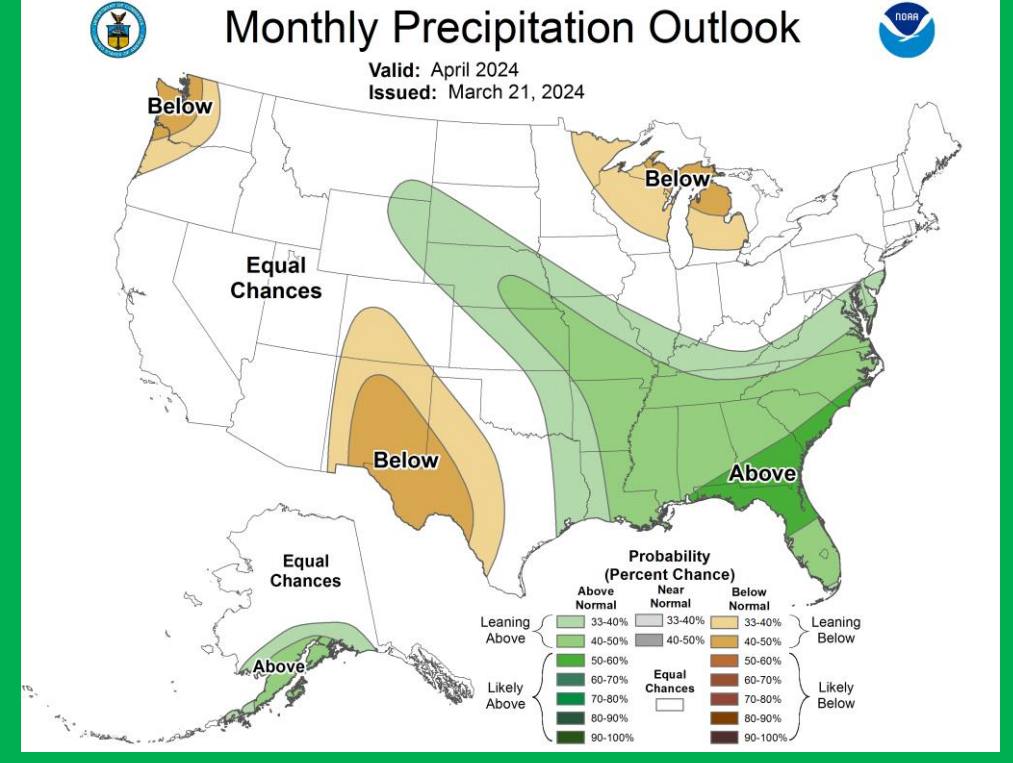
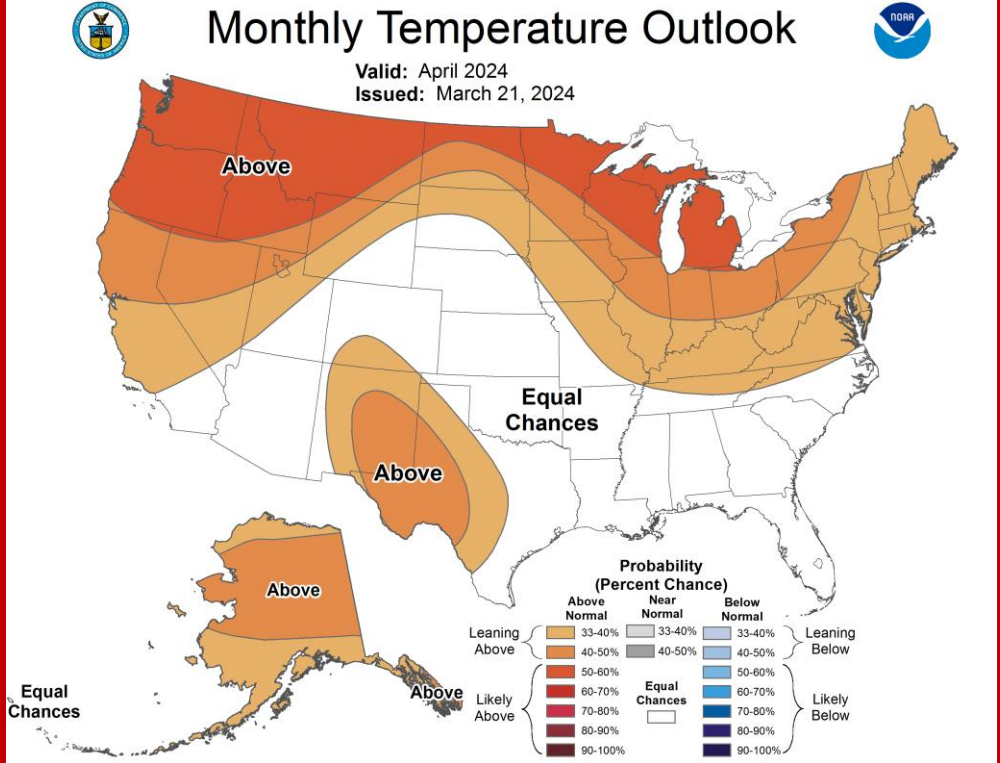
As of March 26th



April Outlook

Location	Average Temp(°F)	Normal High (°F)	Normal Low (°F)
Galveston	71.5	78.0	65.0
Houston Hobby	70.5	79.3	61.8
City of Houston	70.0	80.1	59.8
College Station	68.7	79.2	58.1
Palacios	71.4	79.5	63.3

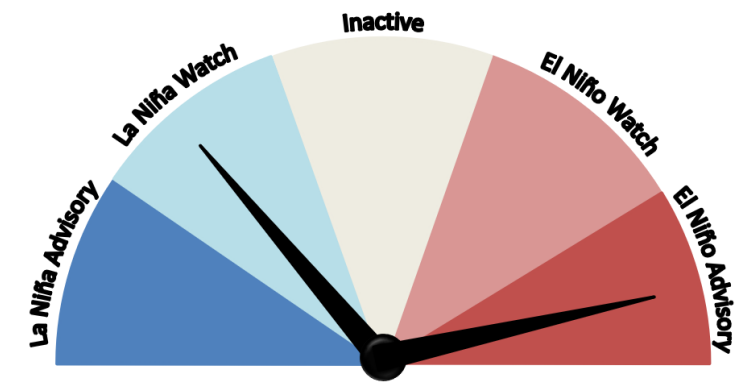
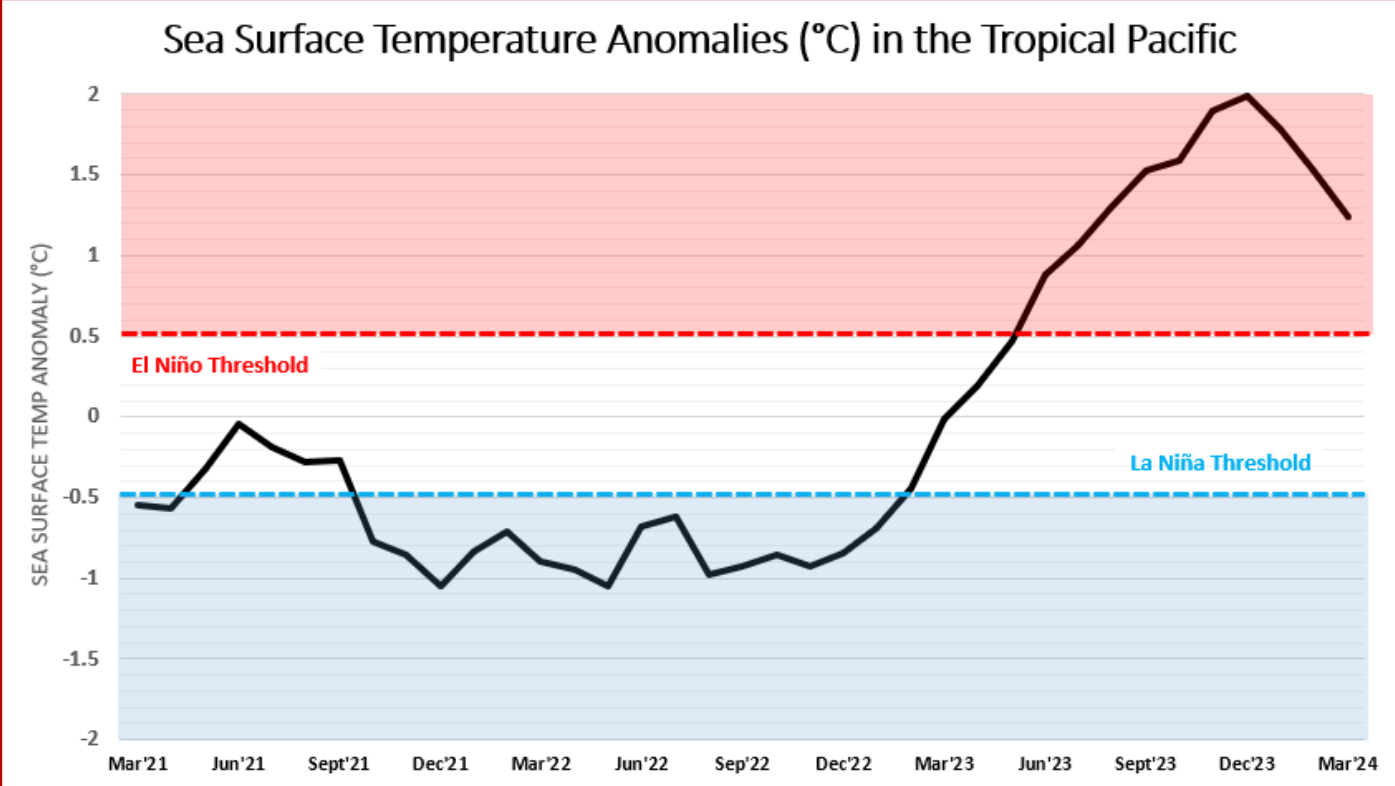
Location	Normal Monthly Precipitation (in.)
Galveston	2.06
Houston Hobby	4.08
City of Houston	3.95
College Station	2.87
Palacios	2.67



Current ENSO Phase: El Niño

The Climate Prediction Center's ENSO Forecast: El Niño Advisory - La Niña Watch

- El Niño conditions are present, but are expected to transition to ENSO-neutral by April-June
- Odds are increasing of La Niña developing during the Summer (55%), so a **La Niña Watch** has been issued



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.



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.

