

NWS Houston, Texas October 2023 Regional Climate Summary

Produced by Jimmy Fowler



...Finally a break from the heat...Drastic drought improvements...

After months on end of extremely hot and dry conditions, October finally broke the streak. The start of the month was near to slightly above normal temperatures, but then the season's first strong cold front at the end of the month brough below normal temperatures. There were multiple days of scattered showers and thunderstorms producing locally heavy downpours. Most of the area generally saw three to six inches of rainfall, but there were isolated amounts as high at nine to ten inches. This led to drastic drought improvements across the area with no areas of Exceptional Drought (D4) reported by the end of the month with just some isolated spots with Extreme Drought (D3).

Photo Credit: Hayley Adams

Table of Contents

Pa

ND ATMOSA

NOAA

RTMENT OF

ge 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: October 2023

Location (records started)	Average Temp	Ranking	Total Rainfall	Ranking
City of Houston, TX (1888)	72.2°F	46 th Warmest	4.07"	53 rd Wettest
Houston Hobby, TX (1930)	73.9°F	20 th Warmest	5.35″	29 th Wettest
City of Galveston, TX (1871)	74.8°F	38 th Warmest	2.74"	73 rd Driest
City of College Station, TX (1882)	74.2°F	8 th Warmest	3.72"	48 th Wettest
Palacios, TX (1943)	73.0°F	34 th Warmest	3.05"	40 th Driest
Huntsville, TX (1997)	70.6°F	7 th Warmest	9.05″	3 rd Wettest
Sugar Land, TX (2000)	73.2°F	8 th Warmest	3.15"	11 th Wettest
Conroe, TX (1997)	69.0°F	13 th Warmest	5.46"	10 th Wettest
Clover Field (Pearland), TX (1997)	72.9°F	14 th Warmest	3.09″	14 th Wettest
David Wayne Hooks (Tomball), TX (1998)	72.3°F	5 th Warmest	5.88″	10 th Wettest
Angleton, TX (1998)	71.5°F	15 th Warmest	9.27"	4 th Wettest
League City, TX (1990)	72.4°F	11 th Warmest	3.21″	13 th Driest





NOAA

Precipitation

Location	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days		y Precipitation date)
Galveston (GLS)	2.47	-2.41	3	1.21	11 th
Houston Hobby (HOU)	5.35	-0.53	4	1.72	26 th
City of Houston (IAH)	4.07	-1.39	3	1.17	3 rd
College Station (CLL)	3.72	-1.21	2	2.19	5 th
Palacios (PSX)	3.05	-1.28	2	0.82	23 rd
	Galveston (GLS)Houston Hobby (HOU)City of Houston (IAH)College Station (CLL)Palacios	LocationPrecipitation (in.)Galveston (GLS)2.47Houston Hobby (HOU)5.35City of Houston (IAH)4.07College Station (CLL)3.72Palacios3.05	LocationPrecipitation (in.)Departure from Normal (in.)Galveston (GLS)2.47-2.41Houston Hobby 	LocationPrecipitation (in.)Departure from Normal (in.)Number of Thunder DaysGalveston (GLS)2.47-2.413Houston Hobby (HOU)5.35-0.534City of Houston (IAH)4.07-1.393College Station (CLL)3.72-1.212Palacios3.05-1.282	LocationPrecipitation (in.)Departure from Normal (in.)Number of Thunder DaysMaximum Dail (in./Galveston (GLS)2.47-2.4131.21Houston Hobby (HOU)5.35-0.5341.72City of Houston (IAH)4.07-1.3931.17College Station (CLL)3.72-1.2122.19Palacios3.05-1.2820.82

4

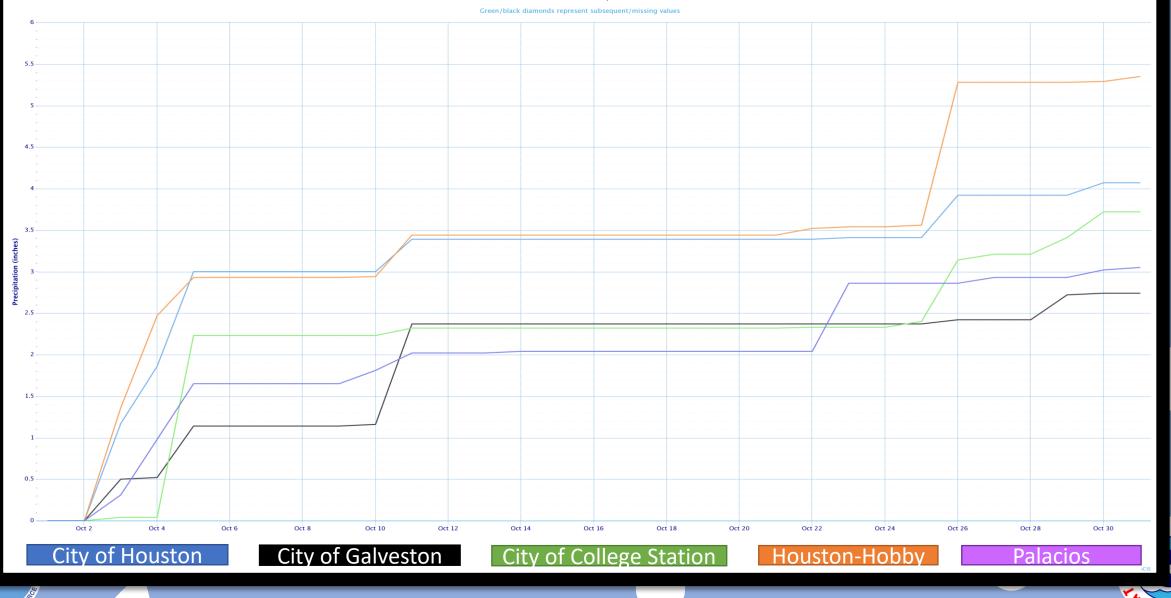
NORA

D ATMOSP

Precipitation Accumulation Graph

RTMENT OF

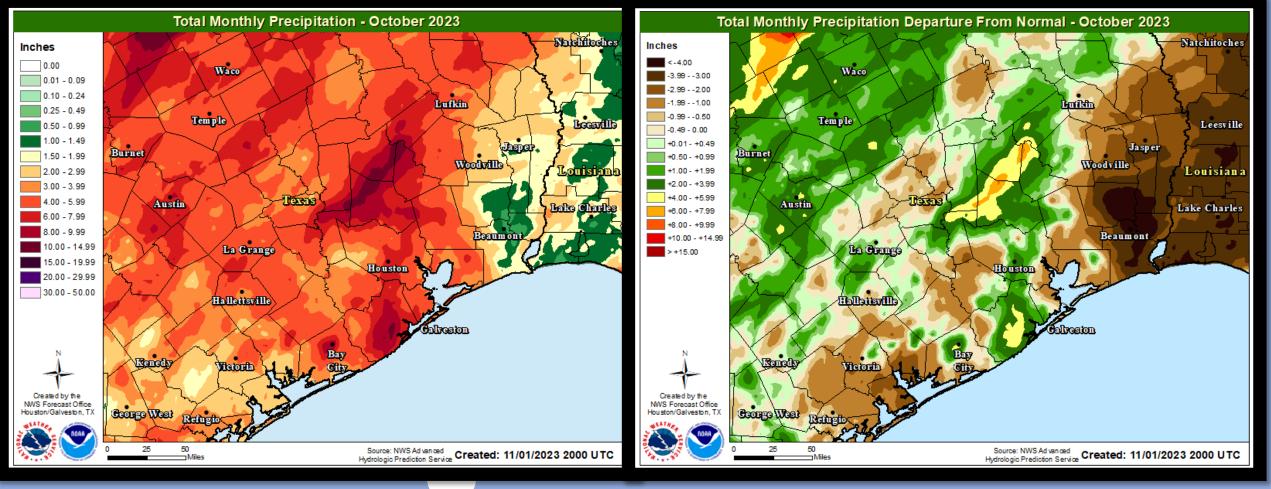
Accumulated Precipitation



Precipitation Maps

ND ATMOSPA NOAA

RTMENT OF CC





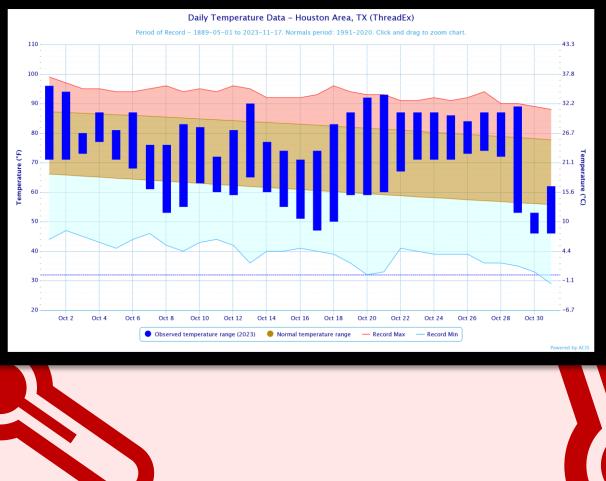
ge Average				
(F) Low Temp	Average Temp (F)	Departure From Normal Average (F)	Maximum Temperature (F)	Minimum Temperature (F)
69.0	74.8	-0.5	90 on the 1 st & 2 nd	50 on the 31 st
65.5	73.9	+0.9	95 on the 1 st	46 on the 31 st
62.3	72.2	+0.4	96 on the 1 st	46 on the 30 th & 31 st
63.5	74.2	+3.1	98 on the 1 st	43 on the 31 st
64.5	73.0	-0.9	93 on the 2 nd	41 on the 31 st
5 3 1	5 69.0 3 65.5 4 62.3 3 63.5	5 69.0 74.8 3 65.5 73.9 4 62.3 72.2 3 63.5 74.2	5 69.0 74.8 -0.5 3 65.5 73.9 +0.9 4 62.3 72.2 +0.4 3 63.5 74.2 +3.1	5 69.0 74.8 -0.5 $90 \text{ on the 1st} \& 2^{nd}$ 3 65.5 73.9 $+0.9$ 95 on the 1st 4 62.3 72.2 $+0.4$ 96 on the 1st 3 63.5 74.2 $+3.1$ 98 on the 1st



Con DEPARTMENT OF COM

Temperature Charts

City of Houston



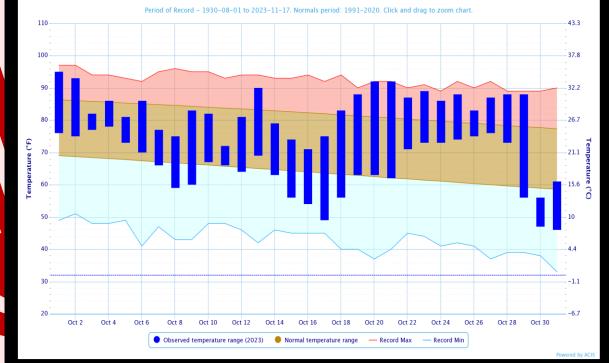
NOAR

TMENT OF

6

Houston-Hobby

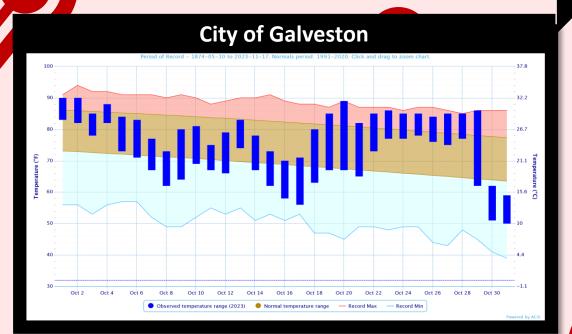
Daily Temperature Data - HOUSTON WILLIAM P HOBBY AP, TX



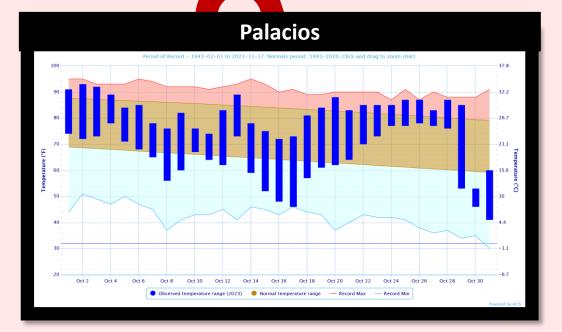
* 🛨 🤋

Temperature Charts

City of College Station - 43.3 37.8 32.2 26.7 21.1 15.6 -6.7 Oct 4 Oct 6 Oct 2 Oct 8 Oct 10 Oct 12 Oct 24 Oct 26 Oct 28 Oct 30 Oct 14 Oct 16 Oct 18 Oct 20 Oct 22 Observed temperature range (2023) - Record Max - Record Min









Daily Record Reports – City of College Station

Date	Record Type	New Record	Previous Record
4 th	High Minimum	82°F	76°F in 1998
20 th	High Maximum	97°F	94°F in 2019
23 rd	High Minimum	75°F – T	75°F in 1925
24 th	High Minimum	74°F – T	74°F in 1991
25 th	High Minimum	73°F – T	73°F in 2021
26 th	High Minimum	75°F – T	75°F in 1939
27 th	High Minimum	76°F – T	76°F in 1939
28 th	High Minimum	78°F	74°F in 1991

There were 8 daily records set at College Station this month.

Low Min

10

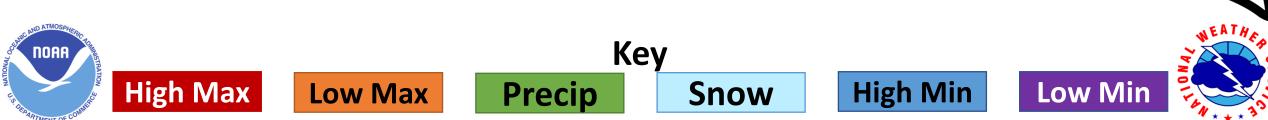
High Max Low Max Precip Snow High

High Min

Daily Record Reports – City of Houston

Date	Record Type	New Record	Previous Record
21 st	High Maximum	93°F – T	93°F in 2004

There was 1 daily record set at Houston this month.



Daily Record Reports – Houston-Hobby

Date	Record Type	New Record	Previous Record
4 th	High Minimum	78°F	77°F in 1986
20 th	High Maximum	92°F – T	92°F in 2004
21 st	High Maximum	92°F	91°F in 1949
24 th	High Minimum	73°F – T	73°F in 1997
25 th	High Minimum	74°F – T	74°F in 2021
27 st	High Minimum	76°F	75°F in 1939

There were 6 daily records set at Houston-Hobby this month.

14

 Key

 High Max
 Low Max
 Precip
 Snow
 High Min
 Low Min

Daily Record Reports – City of Galveston

Date	Record Type	New Record	Previous Record
1 st	High Minimum	83°F – T	83°F in 2019
4 th	High Minimum	88°F	83°F in 1911
20 th	High Maximum	89°F	87°F in 2019
28 th	High Maximum	85°F – T	85°F in 2015
29 th	High Maximum	86°F	85°F in 2004

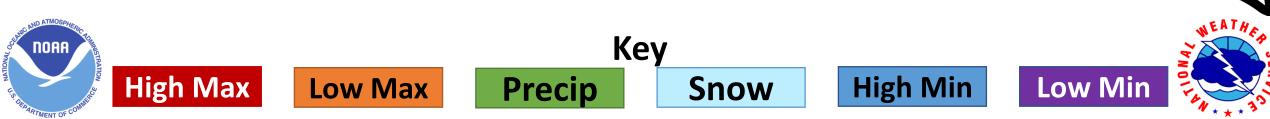
There were 5 daily records set at Houston-Hobby this month.



Daily Record Reports – Palacios

Date	Record Type	New Record	Previous Record
17 th	Low Minimum	46°F – T	46°F in 2017
24 th	High Minimum	77°F – T	77°F in 2022
26 th	High Maximum	87°F – T	87°F in 2004
27 th	High Minimum	77°F — T	77°F in 2004
28 th	High Minimum	76°F	75°F in 1991

There were 5 daily records set at Palacios this month.

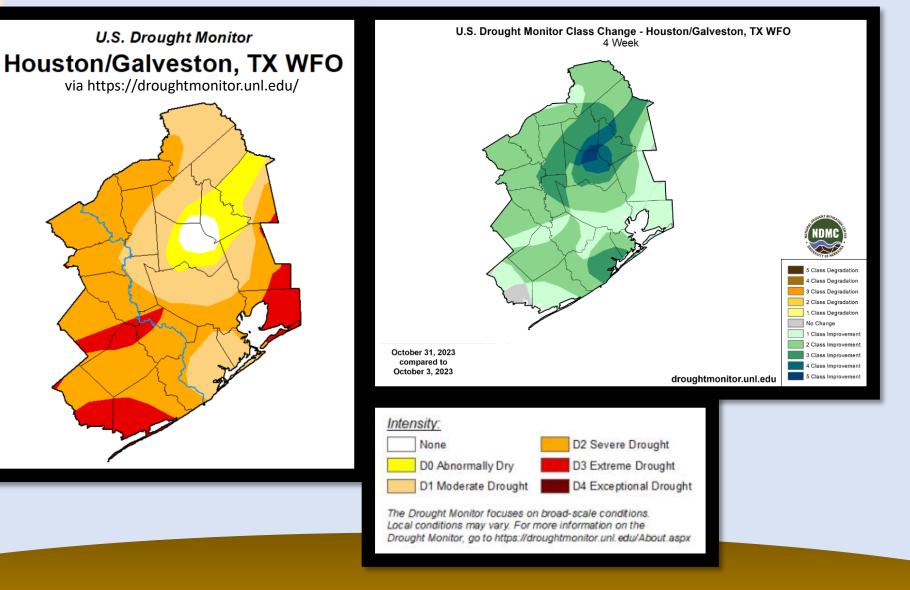


Drought Monitor As of October 31st

IN ATMOSA

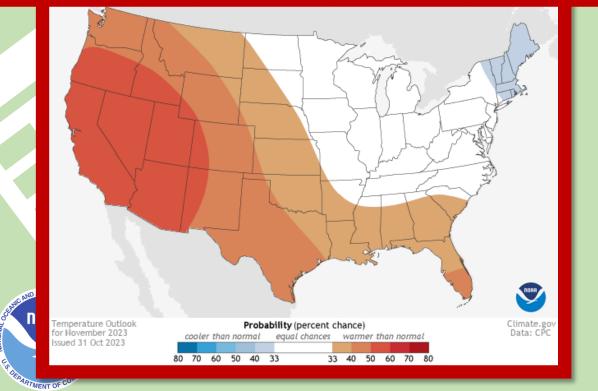
NOAA

MENT OF

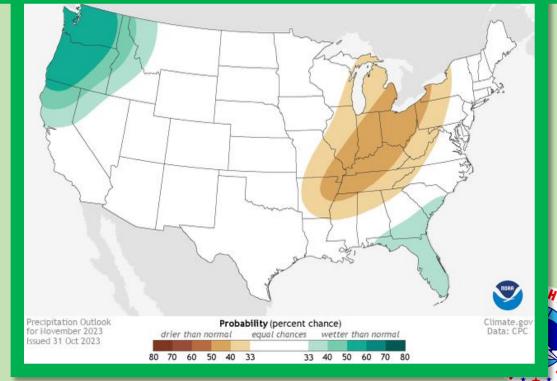


November Outlook

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

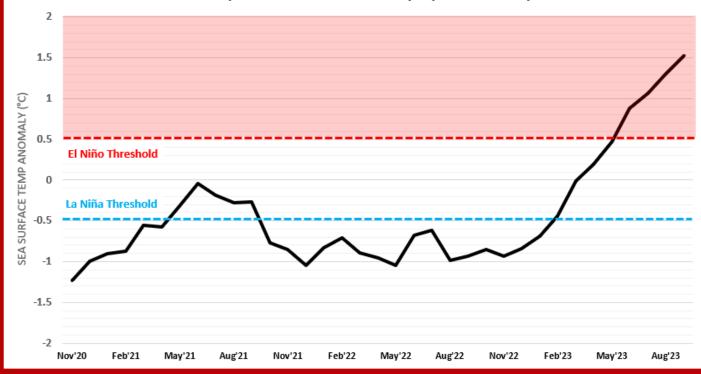


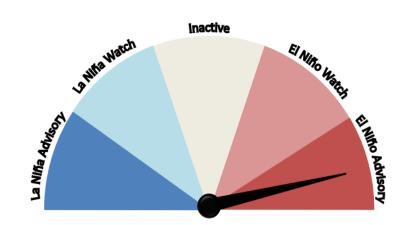


The Climate Prediction Center's ENSO Forecast: <u>El Niño Advisory</u>

• El Niño conditions are present and are expected to continue through Spring.

Sea Surface Temperature Anomalies (°C) in the Tropical Pacific





20

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)

College Station (CLL)

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).	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.
City of Houston (IAH)	Houston Hobby (HOU)
Records for the City of Houston are from observations at the following locations: Cotton Station from July 1881 through September 1909, Stewart	Records are based upon observations beginning in August 1931.
Building at Preston and Fannin from September 1909 through February 1926, Shell Building at Texas and Fannin from March 1926 through August 1938,	Palacios (PSX)
Federal Building at Franklin and Fannin from August 1938 through May 1969, Intercontinental Airport from June 1969 to the present.	Records are based upon observations beginning in February 1943.



