

NWS Houston, Texas June 2023 Regional Climate Summary

Produced by Jimmy Fowler

...Hot, Humid, and Dry June led to Drought's Return...

After a few months of above-normal rainfall leading to drought improvements, D0 to D1 drought conditions returned to the area in June, mainly along the coast. The hot and dry conditions were mainly driven by a strong ridge of high pressure that remained over Texas. The region experienced its first triple digit days of the year with heat indices rising to near 115°F. The region did experience severe thunderstorms with a 90mph wind gust near College Station on the 4th, and a 98mph wind gust at Bush Intercontinental – the strongest on record for the station – during the storms on the 21st. Despite these storms, rainfall for the month was about 2 to 4" below normal for most of the region.

Photo Credit:
NWS Meteorologist
Jimmy Fowler

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By the Numbers: June 2023

Location (records started)	Average Temp	Ranking	Total Rainfall	Ranking
City of Houston, TX (1888)	85.1°F	7 th Warmest	3.24"	59 th Driest
Houston Hobby, TX (1930)	85.9°F	3 rd Warmest	3.62"	37 th Driest
City of Galveston, TX (1871)	83.5°F	20 th Warmest	1.78"	45 th Driest
City of College Station, TX (1882)	85.9°F	7 th Warmest	1.87"	46 th Driest
Palacios, TX (1943)	84.7°F	7 th Warmest	0.07"	3 rd Driest
Huntsville, TX (1997)	86.3°F	4 th Warmest	0.68"	5 th Driest
Sugar Land, TX (2000)	85.1°F	3 rd Warmest	1.69"	4 th Driest
Conroe, TX (1997)	83.8°F	4 th Warmest	1.67"	6 th Driest
Clover Field (Pearland), TX (1997)	86.0°F	Warmest on Record	1.45"	6 th Driest
David Wayne Hooks (Tomball), TX (1998)	84.9°F	4 th Warmest	2.34"	8 th Driest
Angleton, TX (1998)	82.7°F	6 th Warmest	1.84"	8 th Driest
League City, TX (1990)	83.6°F	4 th Warmest	2.86"	7 th Driest



Precipitation

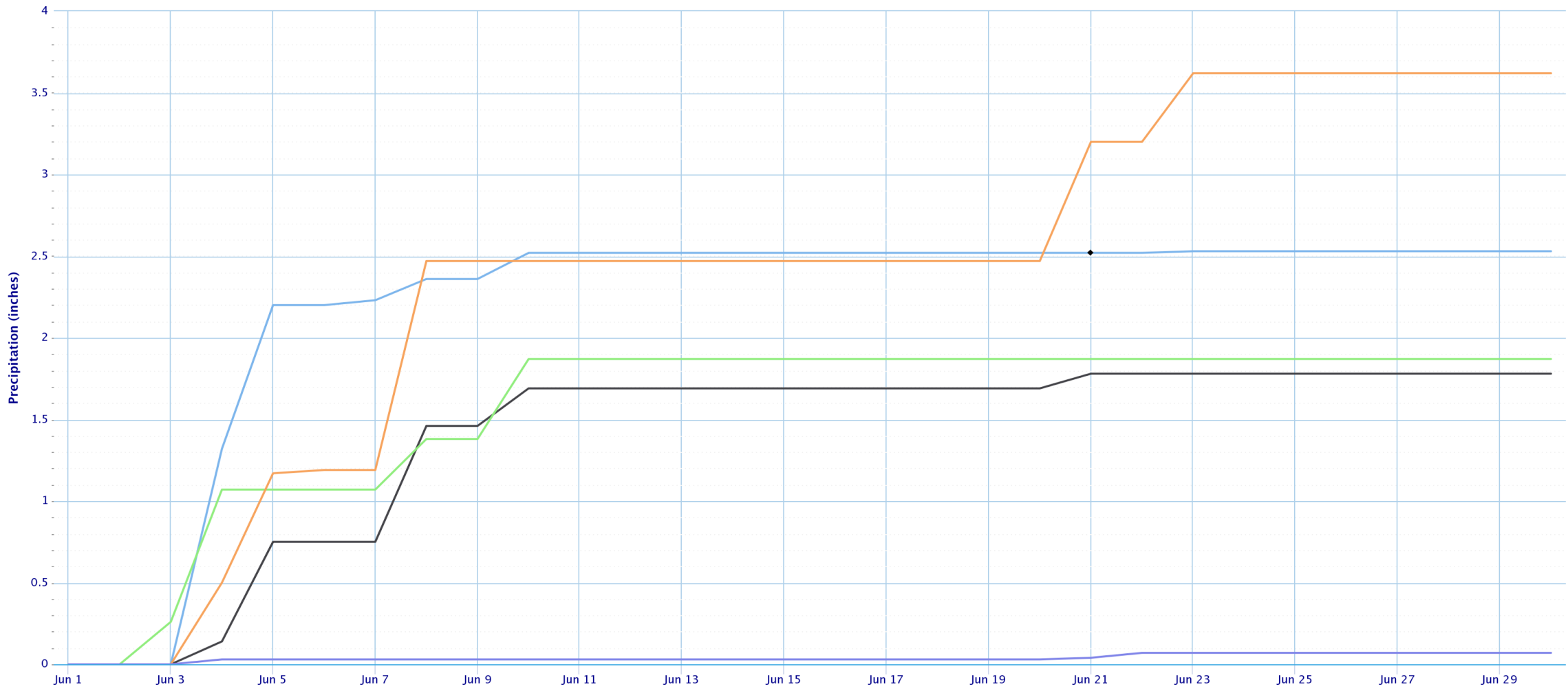
Location	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	1.78	-2.45	4	0.71	8 th
Houston Hobby (HOU)	3.62	-2.47	8	1.28	8 th
City of Houston (IAH)	3.24	-2.76	9	1.32	4 th
College Station (CLL)	1.87	-2.14	5	0.81	4 th
Palacios (PSX)	0.07	-4.48	3	0.03	4 th



Precipitation Accumulation Graph

Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



City of Houston

City of Galveston

City of College Station

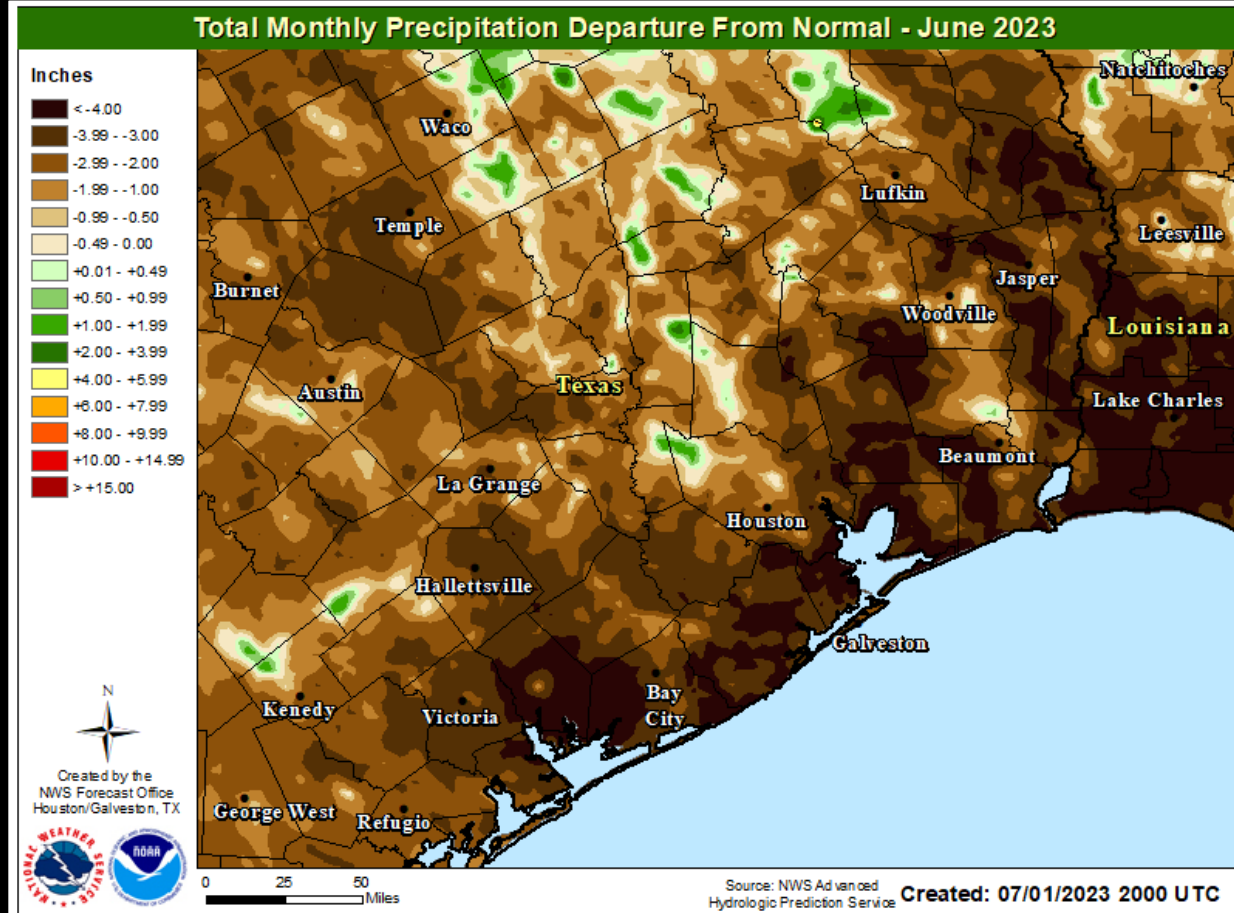
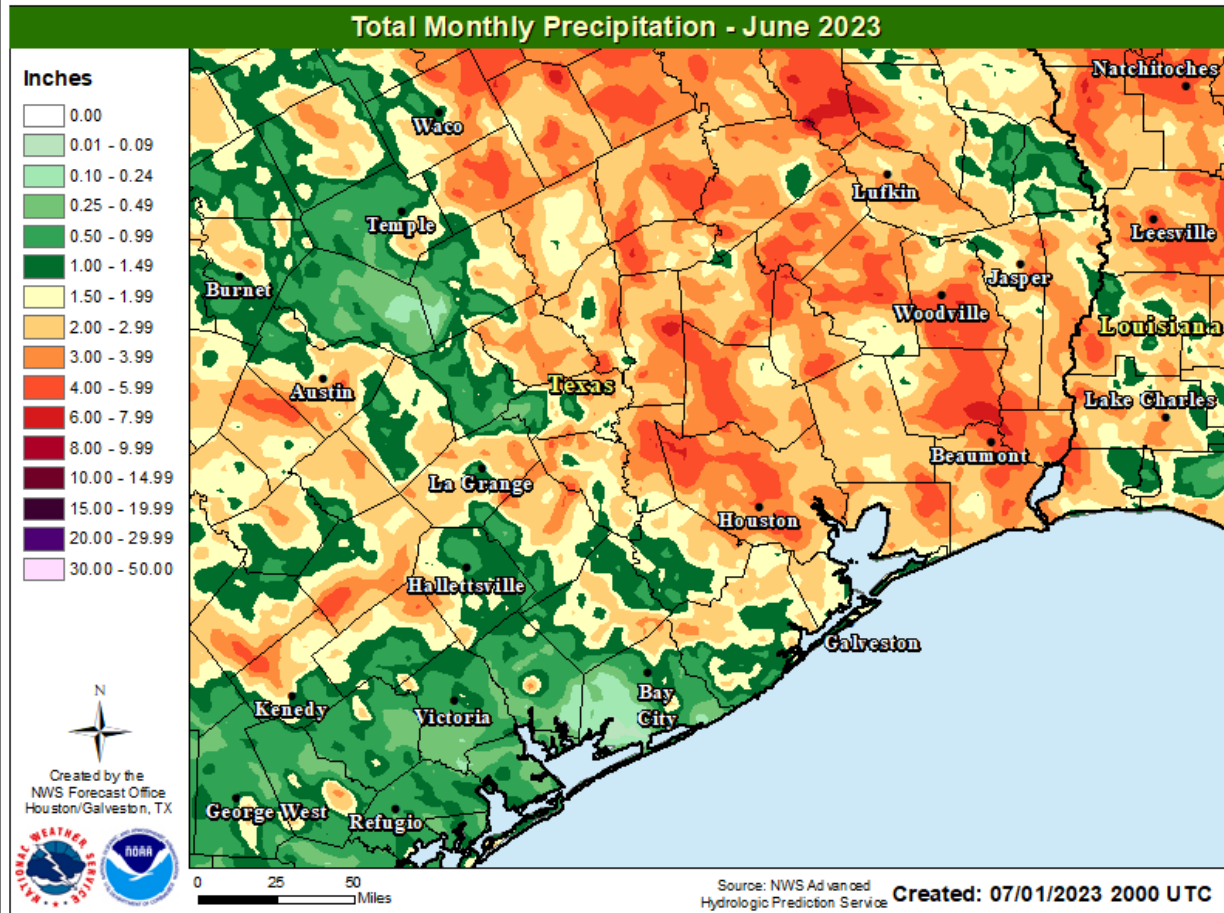
Houston-Hobby

Palacios



powered by GIS

Precipitation Maps

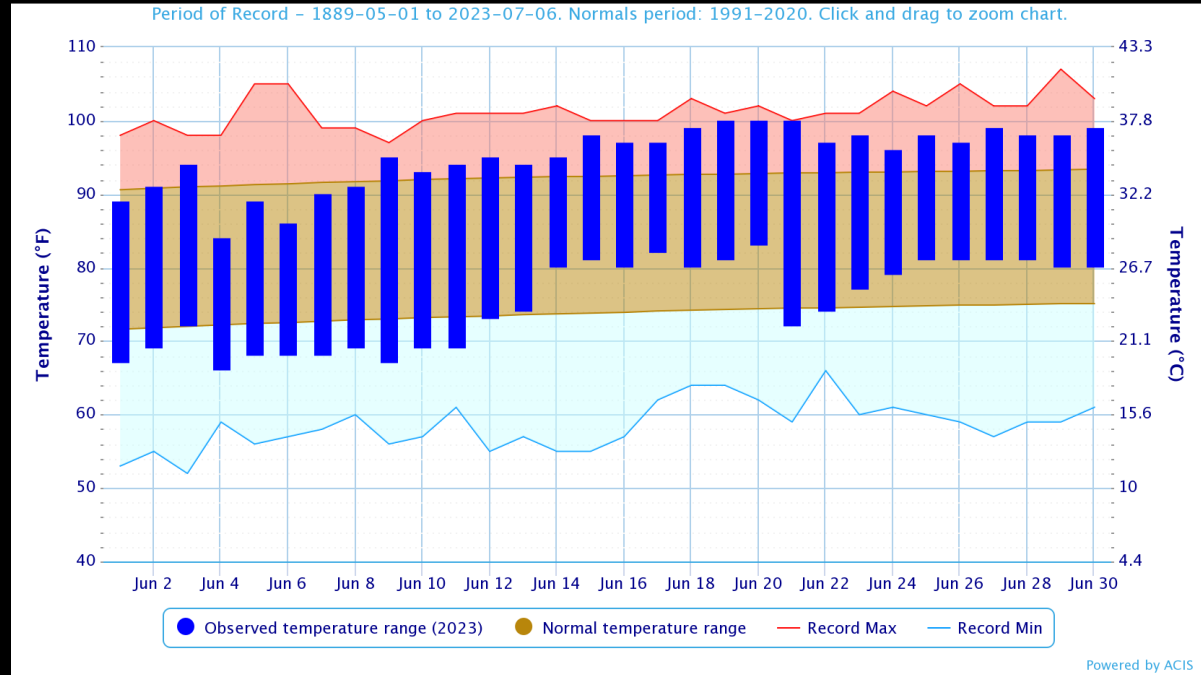


Temperature

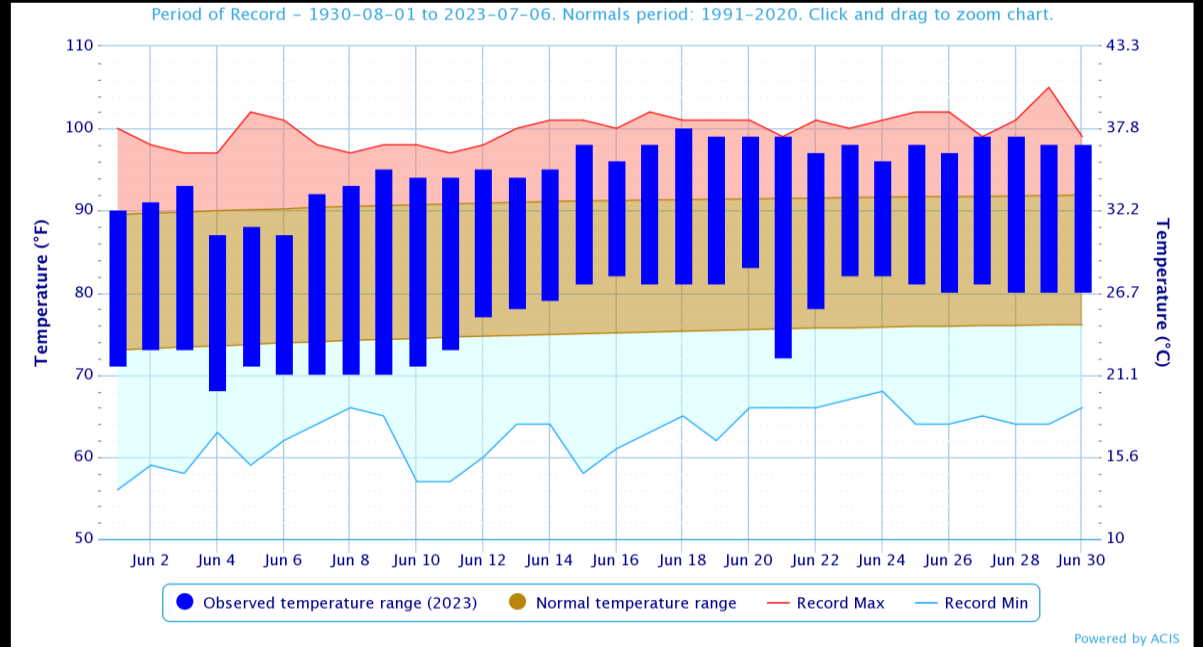
Location	Average High Temp (F)	Average Low Temp (F)	Average Temp (F)	Departure From Normal Average (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	88.9	78.1	83.5	-0.3	91 on the 26 th 27 th & 30 th	70 on the 4 th 8 th & 10 th
Houston Hobby (HOU)	95.2	76.6	85.9	+3.0	100 on the 18 th	68 on the 4 th
City of Houston (IAH)	95.0	75.1	85.1	+2.1	100 on the 19 th , 20 th & 21 st	66 on the 4 th
College Station (CLL)	95.8	76.1	85.9	+3.3	101 on the 18 th , 19 th , 20 th & 27 th	67 on the 3 rd
Palacios (PSX)	90.5	78.8	84.7	+1.1	94 on the 23 rd	67 on the 6 th

Temperature Charts

City of Houston

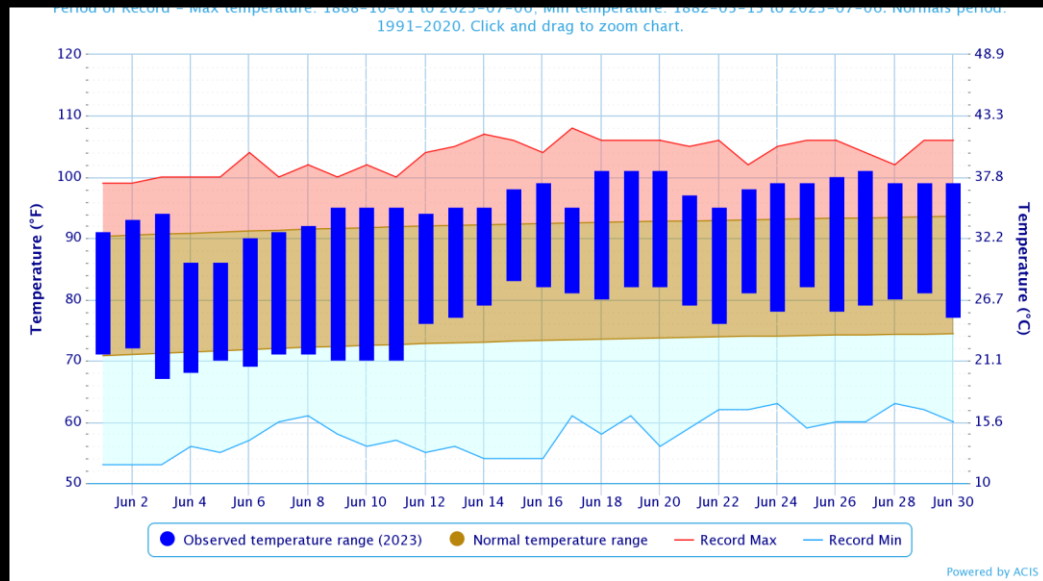


Houston-Hobby

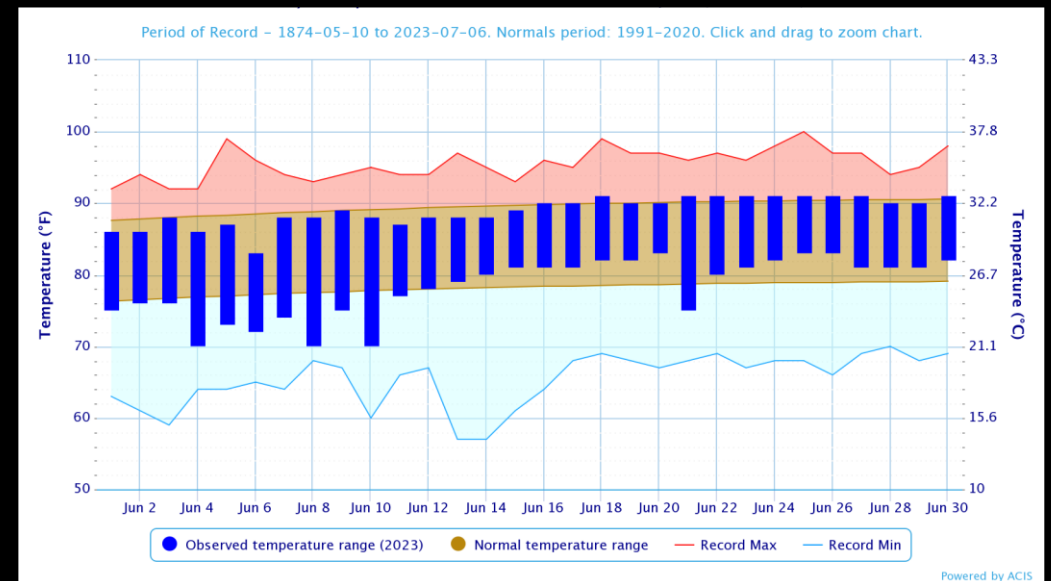


Temperature Charts

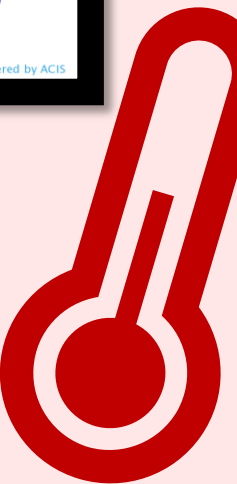
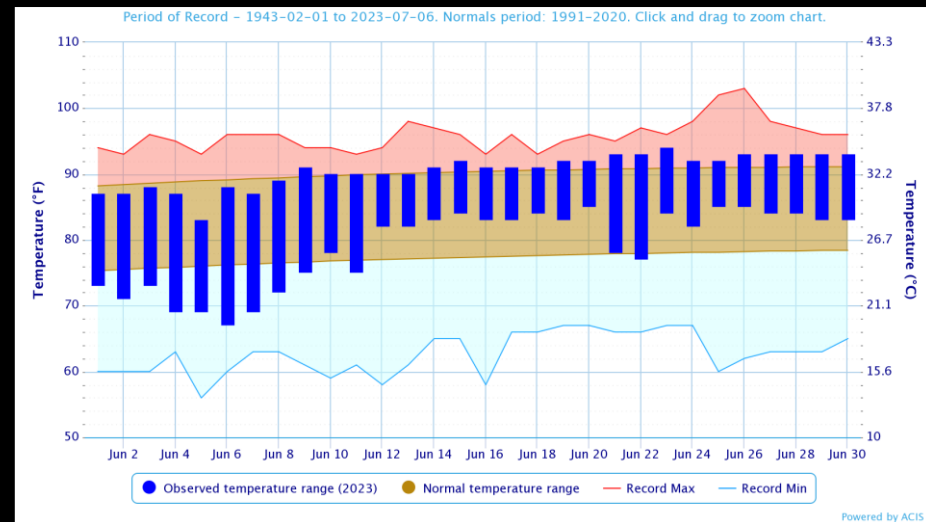
City of College Station



City of Galveston



Palacios



Daily Record Reports – City of College Station

Date	Record Type	New Record	Previous Record
17 th	High Minimum	81°F – T	81°F in 1902
19 th	High Minimum	82°F – T	82°F in 1902
20 th	High Minimum	82°F	81°F in 1915
25 th	High Minimum	82°F	81°F in 2009
28 th	High Minimum	80°F – T	80°F in 1972

There were 5 daily records set at College Station this month.



High Max

Low Max

Precip

Snow

High Min

Low Min



Key

Daily Record Reports – City of Houston

Date	Record Type	New Record	Previous Record
15 th	High Minimum	81°F – T	81°F in 2022
16 th	High Minimum	80°F – T	80°F in 1958
17 th	High Minimum	82°F – T	82°F in 2022
20 th	High Minimum	83°F	81°F in 2011
21 st	High Maximum	100°F – T	100°F in 1998
24 th	High Minimum	79°F – T	79°F in 2022
26 th	High Minimum	81°F – T	81°F in 2022
28 th	High Minimum	81°F – T	81°F in 2009

There were 8 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
15 th	High Minimum	81°F	80°F in 2022
16 th	High Minimum	82°F	80°F in 1958
17 th	High Minimum	81°F – T	81°F in 2011
19 th	High Minimum	81°F	80°F in 2011
20 th	High Minimum	83°F	80°F in 2021
21 st	High Maximum	99°F – T	99°F in 1998
24 th	High Minimum	82°F	81°F in 2021
25 th	High Minimum	81°F – T	81°F in 2021
27 th	High Maximum	99°F – T	99°F in 2012

There were 9 daily records set at Houston-Hobby this month.



Key

High Max

Low Max

Precip

Snow

High Min

Low Min

Daily Record Reports – City of Galveston

Date	Record Type	New Record	Previous Record
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No Daily Records this month.



High Max

Low Max

Precip

Key

Snow

High Min

Low Min



Daily Record Reports – Palacios

Date	Record Type	New Record	Previous Record	Date	Record Type	New Record	Previous Record
14 th	High Minimum	83°F – T	83°F in 2022	30 th	High Minimum	83°F – T	83°F in 2020
15 th	High Minimum	84°F	83°F in 2022				
16 th	High Minimum	83°F – T	83°F in 2022				
17 th	High Minimum	83°F – T	83°F in 2013				
18 th	High Minimum	84°F	83°F in 2013				
20 th	High Minimum	85°F – T	85°F in 2019				
25 th	High Minimum	85°F – T	85°F in 2013				
26 th	High Minimum	85°F – T	85°F in 2013				
28 th	High Minimum	84°F	83°F in 2013				
29 th	High Minimum	83°F – T	83°F in 2020				

There were 11 daily records set at Palacios this month.



Key

High Max

Low Max

Precip

Snow

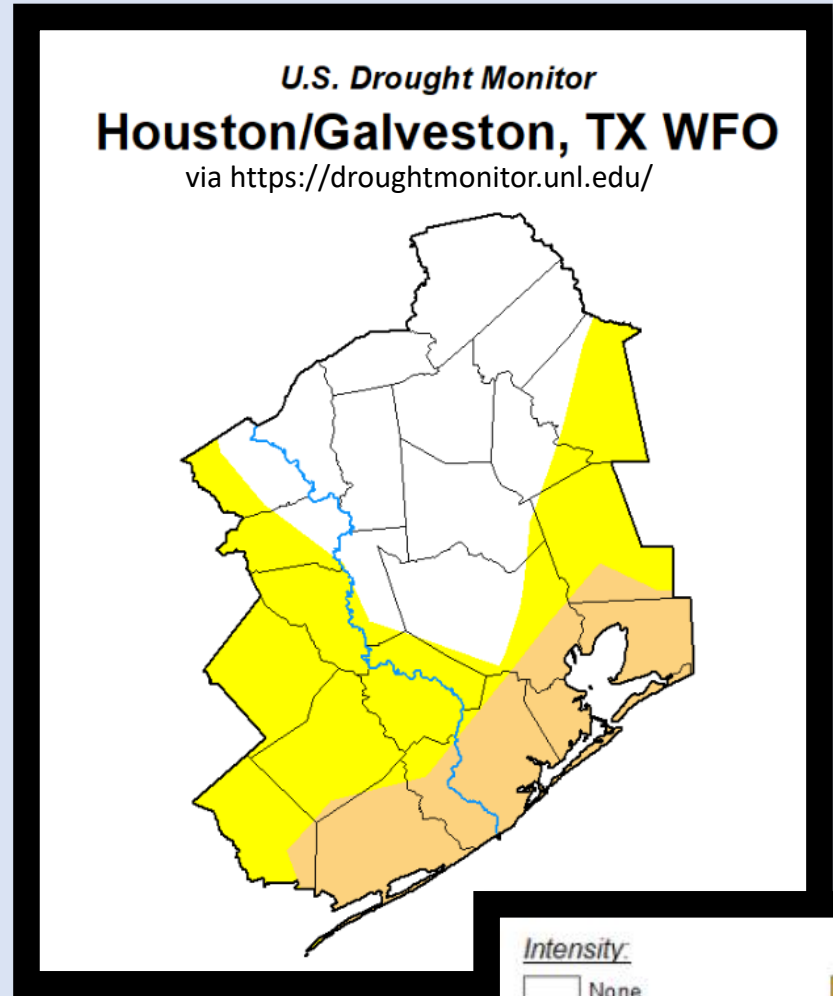
High Min

Low Min

Drought Monitor

As of July 4th

Hot and dry weather in June resulted in the return of drought conditions in the region. Coastal parts of Jackson, Matagorda, Brazoria, Harris, and Liberty counties plus all of Galveston and Chambers counties are now in a D1 – Moderate Drought. Most areas west of the Brazos River and up along the eastern portion of the region are seeing D0 – Abnormally Dry conditions.



Intensity:

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

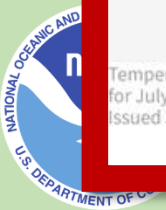
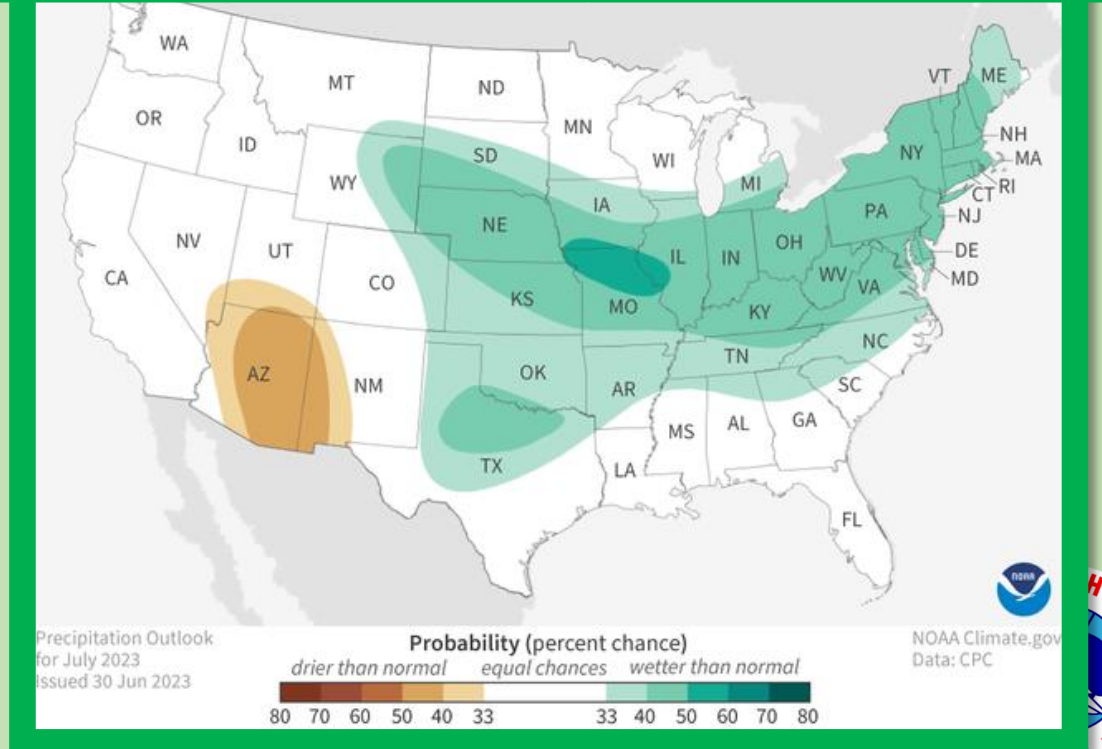
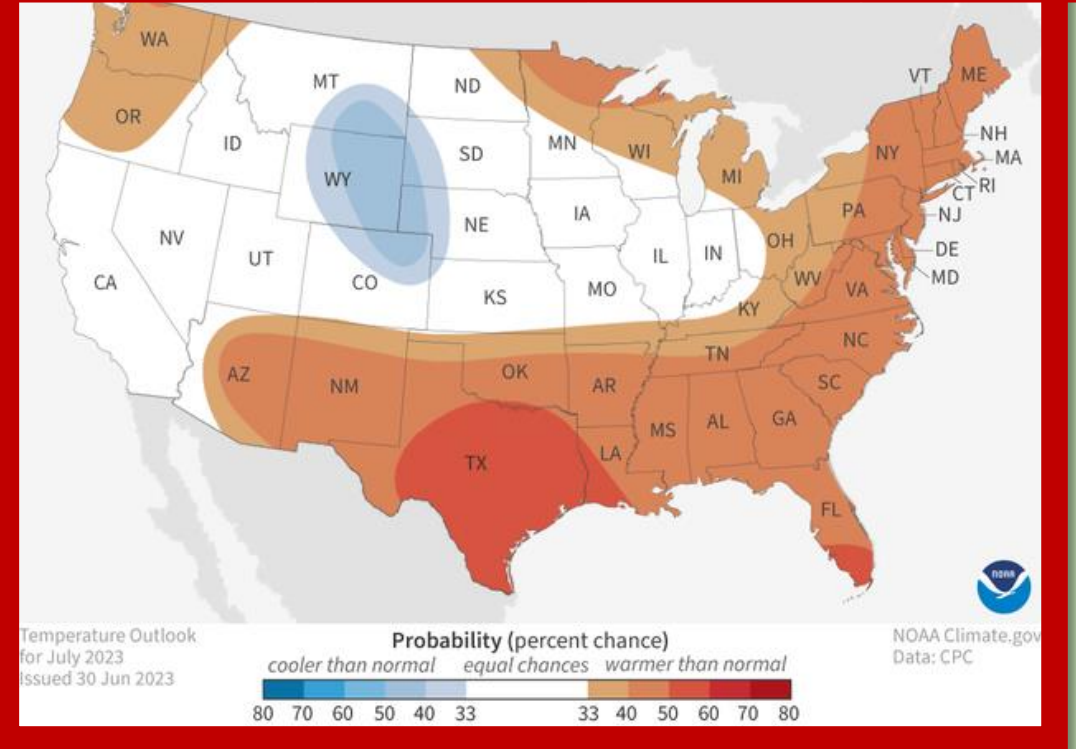
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>



July Outlook

Location	Average Temp(°F)	Normal High (°F)	Normal Low (°F)
Galveston	85.5	91.3	79.7
Houston Hobby	84.8	92.9	76.6
City of Houston	85.1	94.5	75.7
College Station	85.1	95.4	74.9
Palacios	85.4	91.7	79.1

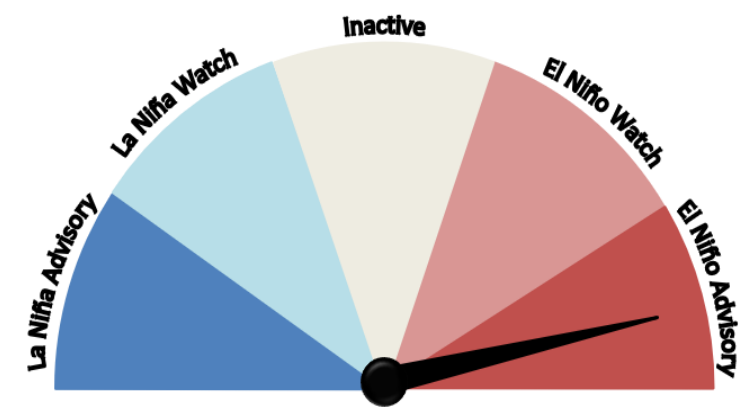
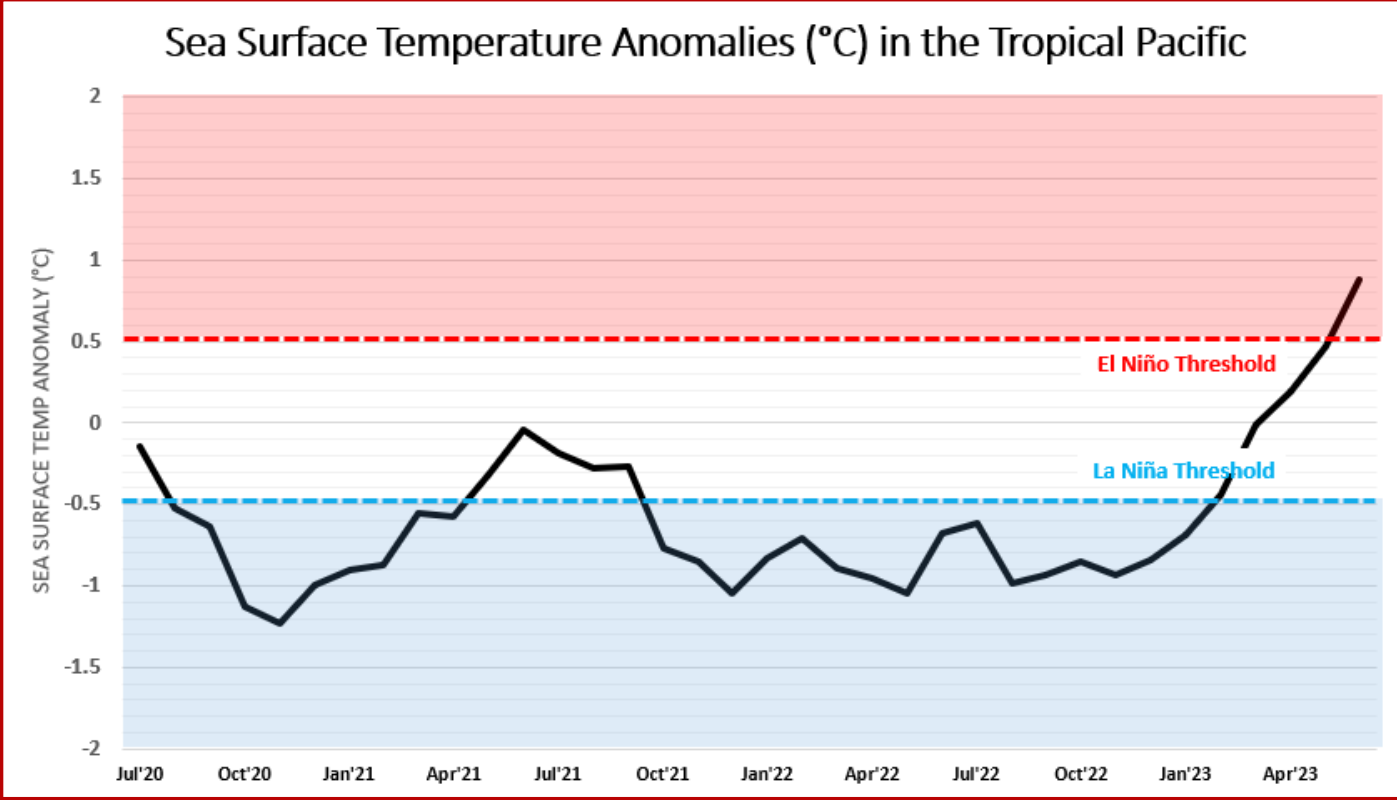
Location	Normal Monthly Precipitation (in.)
Galveston	3.41
Houston Hobby	4.59
City of Houston	3.77
College Station	1.98
Palacios	3.67



Current ENSO Phase: El Niño

The Climate Prediction Center's ENSO Forecast: El Niño Advisory

- El Niño conditions are present and are expected to gradually strengthen through the Winter.



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.

