

NWS Houston, Texas November 2024 Regional Climate Summary

Produced by Jimmy Fowler

...Warmest November on Record, Warmest Fall on Record...

...Scattered Rainfall Led to Drought Improvement...

After experiencing the warmest October on record for many locations, this November was the warmest November on record. This ended up being the warmest Falls on record at Houston-Hobby, the City of Houston, and the City of College Station with Palacios and the City of Galveston experiencing their 2nd warmest on record. Moist onshore flow and passing weak cold fronts did bring periods of scattered showers this month, but on average most of the area saw around one to three inches below normal rainfall. Still this rainfall was helpful in the removal of most of the D2-Severe Drought from the area leaving us with D1-Moderate Drought to D0-Abnormally Dry conditions.

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By the Numbers: November 2024

| Location (records started) | Average Temp | Ranking | Total Rainfall | Ranking |
|--|-----------------|--------------------------|----------------|--------------------------|
| City of Houston, TX (1888) | 69.6°F | 3 rd Warmest | 4.00" | 48 th Wettest |
| Houston Hobby, TX (1930) | 70.0°F | Warmest on Record | 2.41" | 35 th Driest |
| City of Galveston, TX (1871) | 72.2°F | Warmest on Record | 3.05" | 79 th Driest |
| City of College Station, TX (1882) | 67.5°F | 2 nd Warmest | 2.46" | 59 th Driest |
| Palacios, TX (1943) | 70.0°F | Warmest on Record | 2.61" | 42 nd Driest |
| Huntsville, TX (1997) | 65.2°F | 2 nd Warmest | 3.36" | 13 th Driest |
| Sugar Land, TX (2000) | 69.2°F | Warmest on Record | 5.81" | 5 th Wettest |
| Conroe, TX (1997) | 65.2°F | Warmest on Record | 3.91" | 14 th Driest |
| Clover Field (Pearland), TX (1997) | 69.5°F | Warmest on Record | 2.36" | 9 th Driest |
| David Wayne Hooks (Tomball), TX (1998) | 67.5°F | Warmest on Record | 4.26" | 8 th Wettest |
| Angleton, TX (1998) | 69.4°F | Warmest on Record | 2.07" | 9 th Driest |
| League City, TX (1990) | 68.0°F | Warmest on Record | 2.04" | 8 th Driest |



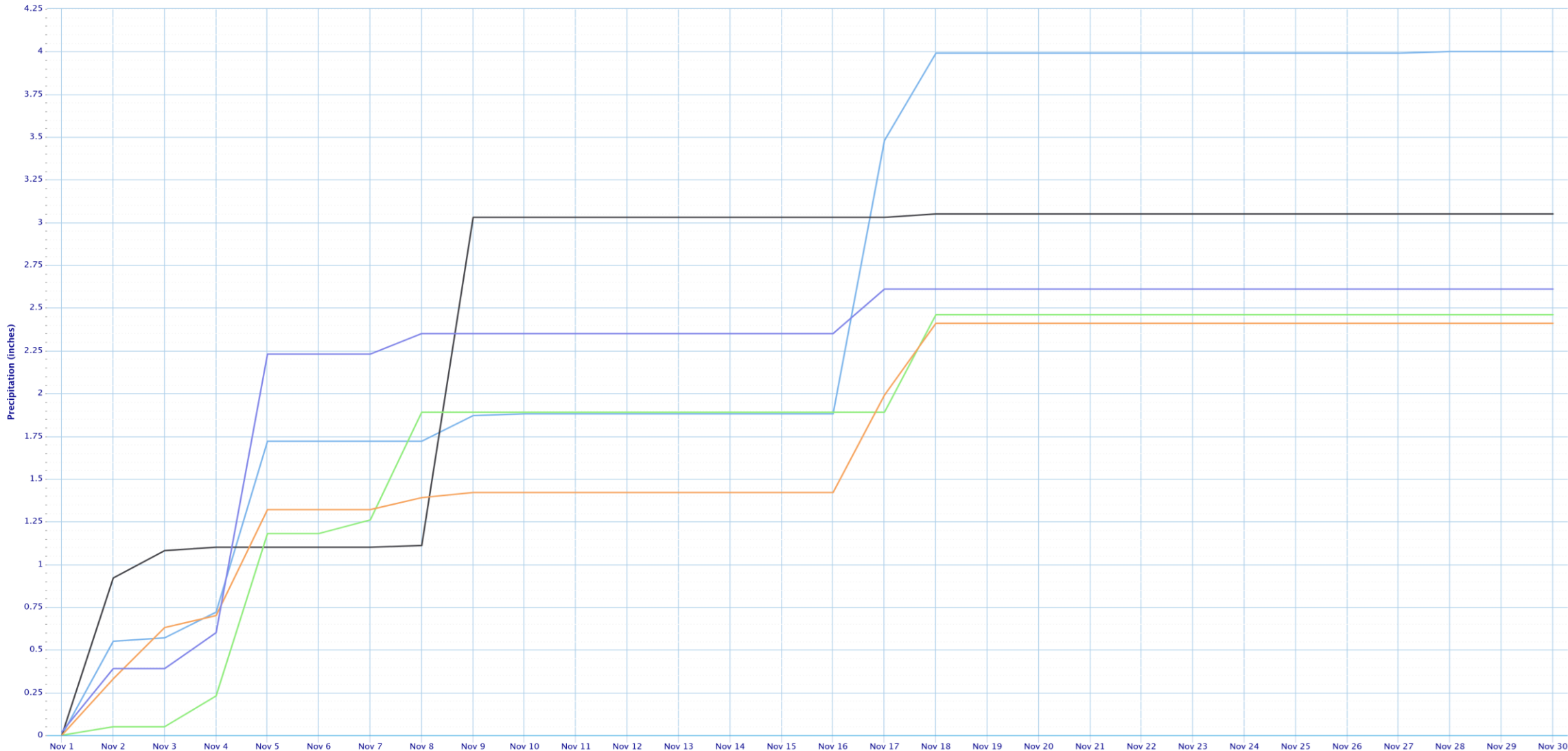
Precipitation

| Location | Total Precipitation (in.) | Departure from Normal (in.) | Number of Thunder Days | Maximum Daily Precipitation (in./date) | |
|-----------------------|---------------------------|-----------------------------|------------------------|--|------------------|
| Galveston (GLS) | 3.05 | -4.23 | 0 | 1.92 | 9 th |
| Houston Hobby (HOU) | 2.41 | -1.49 | 3 | 0.62 | 5 th |
| City of Houston (IAH) | 4.00 | +0.13 | 3 | 1.60 | 17 th |
| College Station (CLL) | 2.46 | -0.85 | 4 | 0.95 | 5 th |
| Palacios (PSX) | 2.61 | -0.78 | 2 | 1.63 | 5 th |



Precipitation Accumulation Graph

Green/black diamonds represent subsequent/missing values



City of Houston

City of Galveston

City of College Station

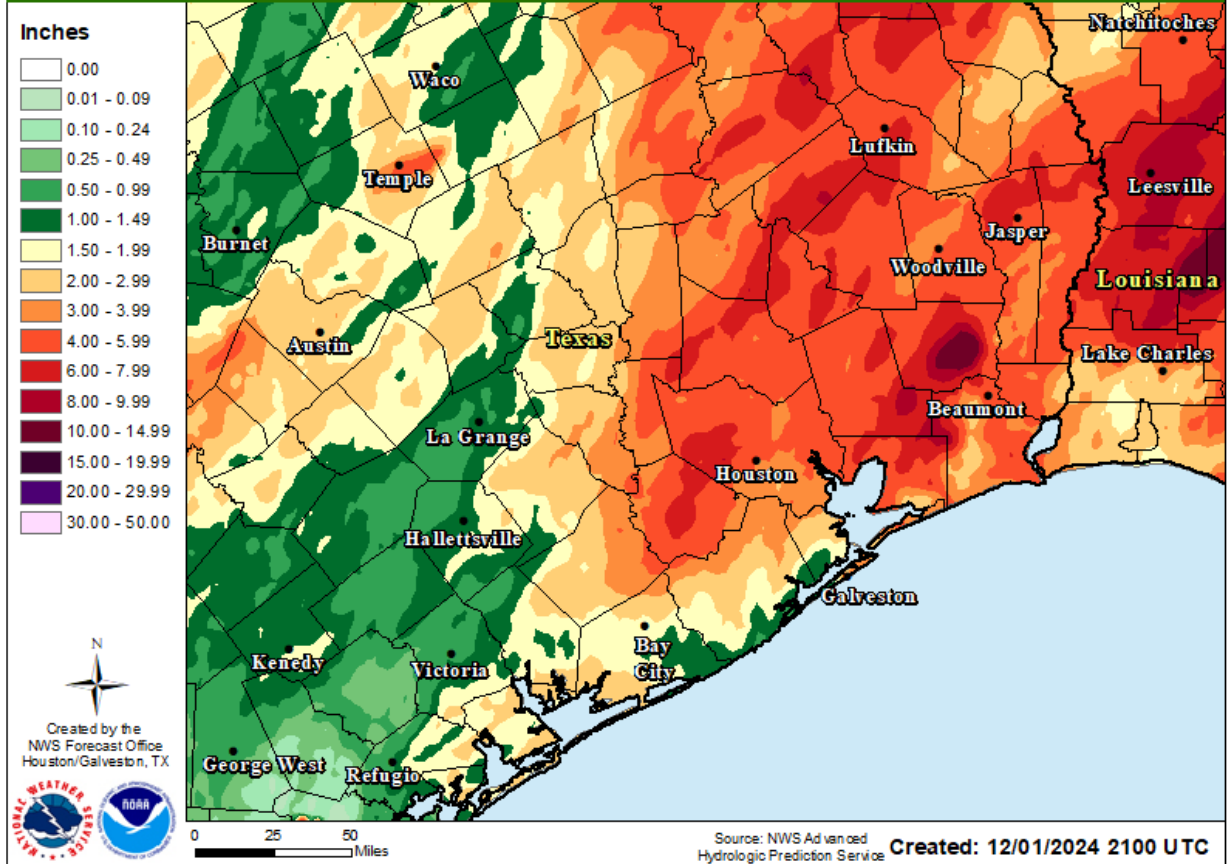
Houston-Hobby

Palacios

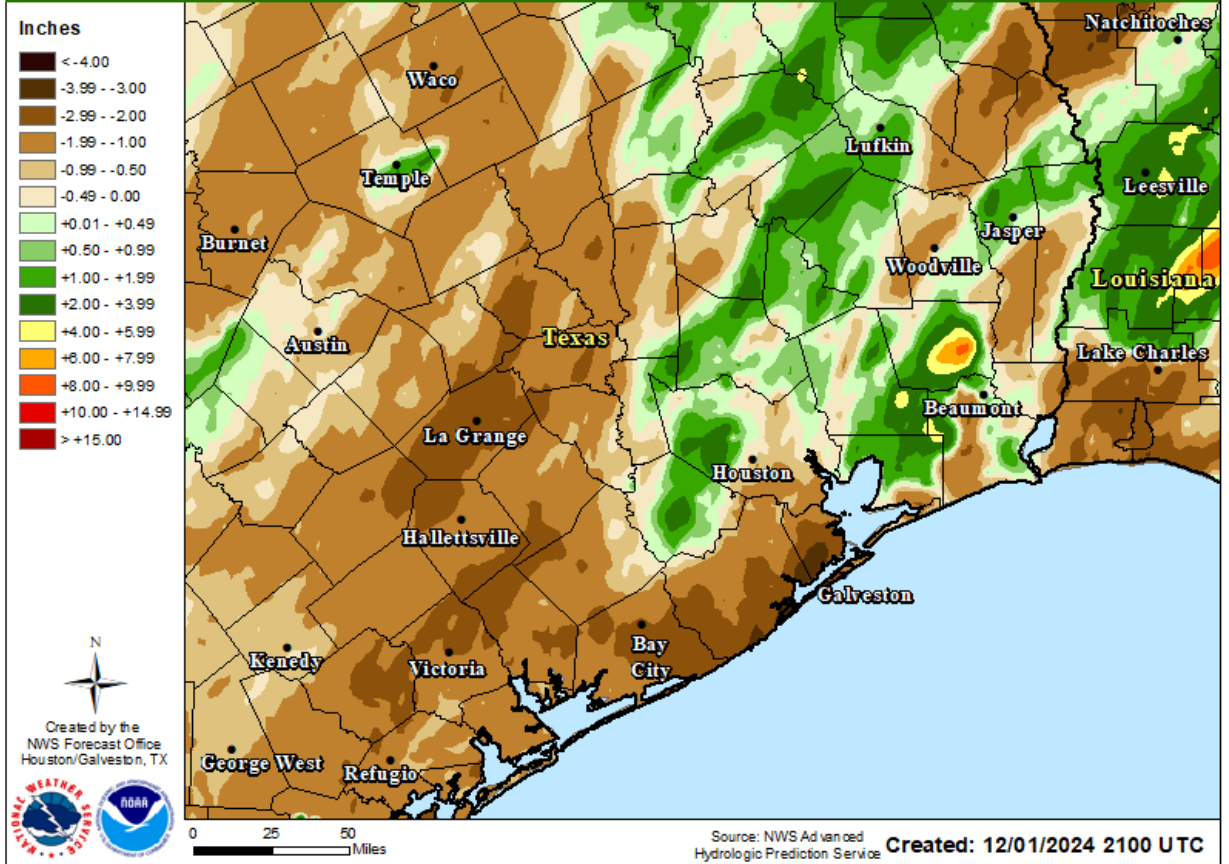


Precipitation Maps

Total Monthly Precipitation - November 2024



Total Monthly Precipitation Departure From Normal - November 2024

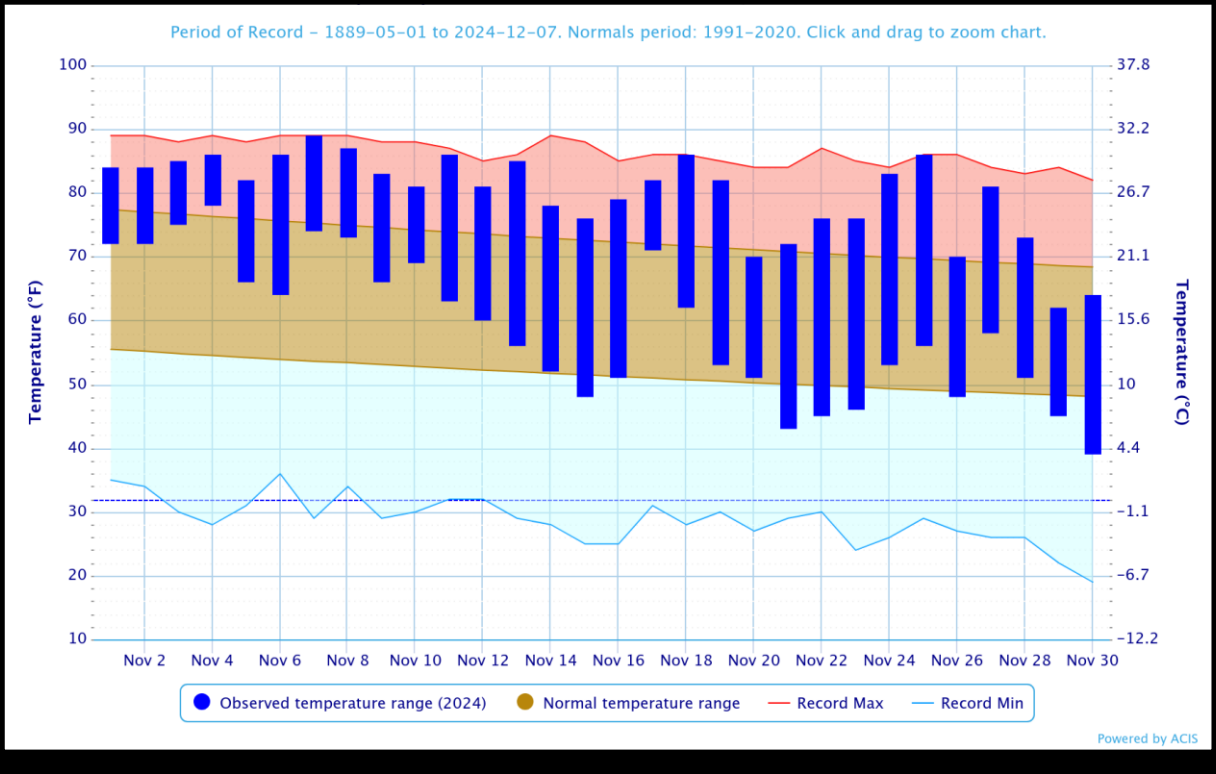


Temperature

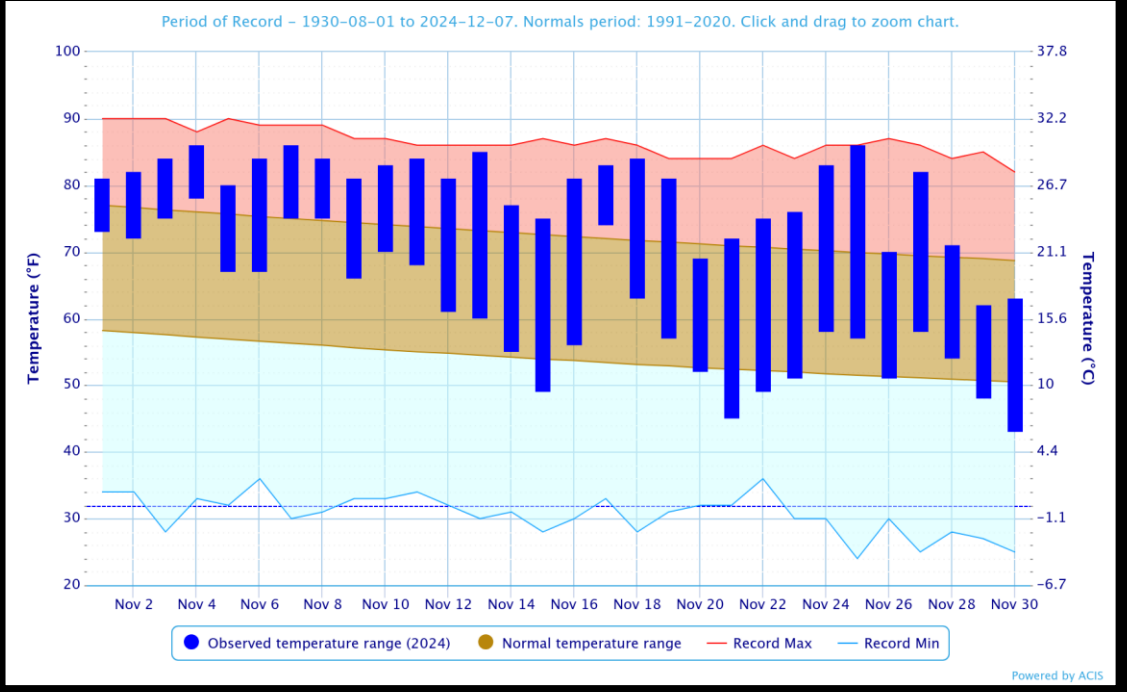
| Location | Average High Temp (F) | Average Low Temp (F) | Average Temp (F) | Departure From Normal Average (F) | Maximum Temperature (F) | Minimum Temperature (F) |
|-----------------------|-----------------------|----------------------|------------------|-----------------------------------|--|--|
| Galveston (GLS) | 78.0 | 66.5 | 72.2 | +6.7 | 86 on the 4 th | 49 on the 30 th |
| Houston Hobby (HOU) | 79.0 | 60.9 | 70.0 | +6.7 | 86 on the 4 th 7 th & 25 th | 43 on the 30 th |
| City of Houston (IAH) | 79.8 | 58.7 | 69.3 | +7.3 | 89 on the 7 th <small>Tied All Time November Record High</small> | 39 on the 30 th |
| College Station (CLL) | 79.7 | 55.3 | 67.5 | +7.1 | 92 on the 3 rd | 38 on the 21 st |
| Palacios (PSX) | 79.4 | 60.7 | 70.0 | +5.4 | 87 on the 4 th & 7 th | 45 on the 20 th & 29 th |

Temperature Charts

City of Houston

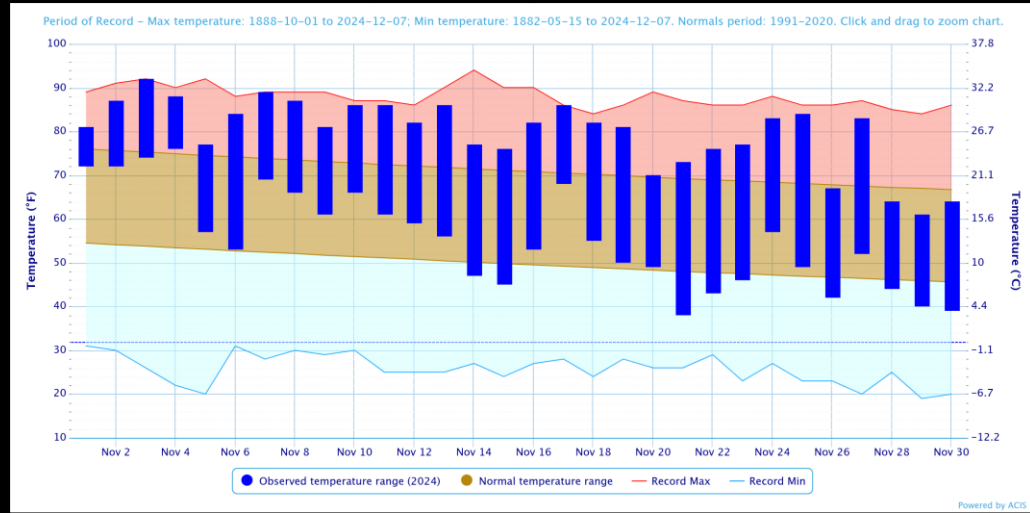


Houston-Hobby

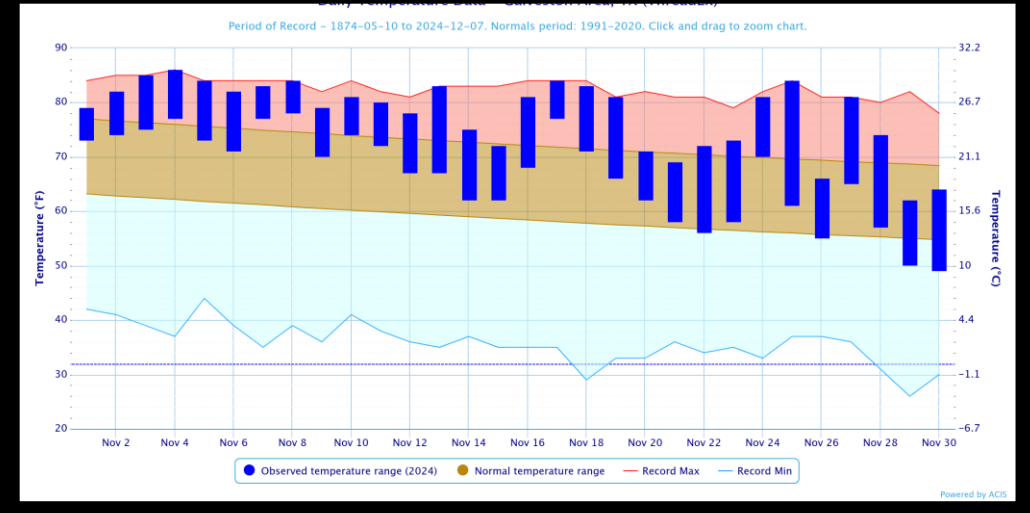


Temperature Charts

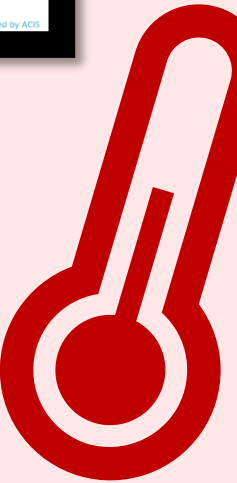
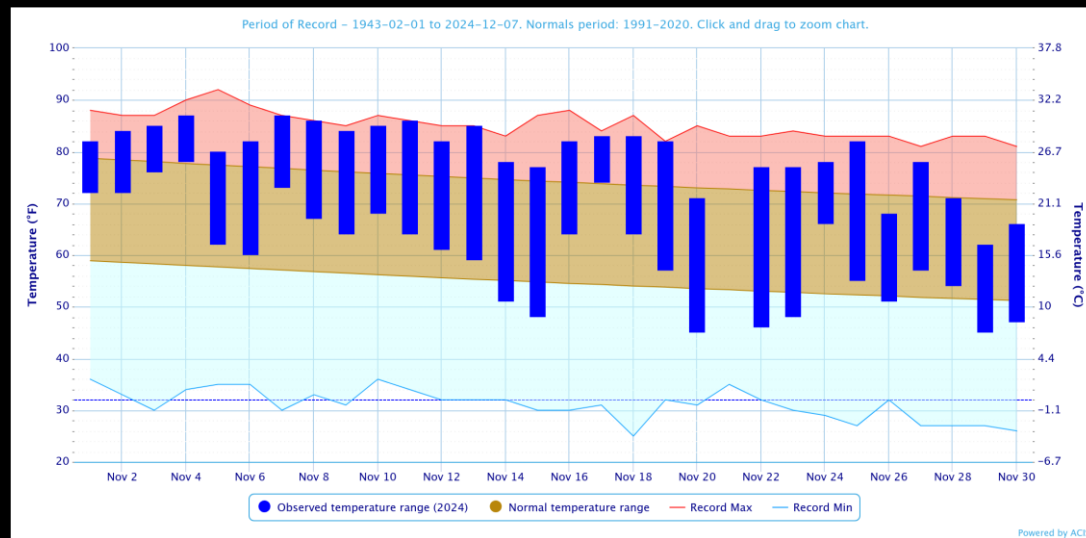
City of College Station



City of Galveston



Palacios



Daily Record Reports – City of College Station

| Date | Record Type | New Record | Previous Record |
|------------------|--------------|------------|-----------------|
| 2 nd | High Minimum | 72°F – T | 72°F in 1945 |
| 3 rd | High Minimum | 74°F – T | 74°F in 1994 |
| 3 rd | High Maximum | 92°F | 88°F in 1948 |
| 4 th | High Minimum | 76°F | 75°F in 1994 |
| 7 th | High Maximum | 89°F | 88°F in 1915 |
| 17 th | High Maximum | 86°F | 85°F in 1938 |

There were 6 daily record set at College Station this month.



High Max

Low Max

Rainfall

Snow

High Min

Low Min



Key

Daily Record Reports – City of Houston

| Date | Record Type | New Record | Previous Record |
|------------------|--------------|------------|---|
| 3 rd | High Minimum | 75°F | 74°F in 2017 |
| 4 th | High Minimum | 78°F | 76°F in 1994 |
| 7 th | High Minimum | 74°F | 72°F in 1989 |
| 7 th | High Maximum | 89°F – T | 89°F in 2018 Tied All Time November Record High |
| 18 th | High Maximum | 86°F | 84°F in 2017 |
| 25 th | High Maximum | 86°F – T | 86°F in 1967 |

There were 6 daily records set at Houston this month.



High Max

Low Max

Rainfall

Snow

High Min

Low Min



Key



Daily Record Reports – Houston-Hobby

| Date | Record Type | New Record | Previous Record |
|------------------|--------------|------------|-----------------|
| 3 rd | High Minimum | 75°F – T | 75°F in 2017 |
| 4 th | High Minimum | 78°F | 75°F in 1994 |
| 7 th | High Minimum | 75°F – T | 75°F in 2018 |
| 8 th | High Minimum | 75°F | 74°F in 1986 |
| 17 th | High Minimum | 74°F | 73°F in 1957 |
| 25 th | High Maximum | 86°F – T | 86°F in 1967 |

There were 6 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 | Date | Record Type | New Record | Previous Record |
|------------------|--------------|------------|-----------------|------------------|--------------|------------|-----------------|
| 3 rd | High Minimum | 75°F – T | 75°F in 2016 | 17 th | High Minimum | 77°F | 74°F in 2003 |
| 3 rd | High Maximum | 85°F – T | 85°F in 1886 | 19 th | High Maximum | 81°F | 79°F in 1999 |
| 4 th | High Minimum | 77°F | 76°F in 1935 | 25 th | High Maximum | 84°F | 78°F in 2010 |
| 4 th | High Maximum | 86°F | 85°F in 1988 | 27 th | High Maximum | 81°F – T | 81°F in 2020 |
| 5 th | High Maximum | 84°F | 83°F in 2017 | | | | |
| 7 th | High Minimum | 77°F – T | 77°F in 2018 | | | | |
| 8 th | High Minimum | 78°F | 75°F in 1988 | | | | |
| 8 th | High Maximum | 84°F | 82°F in 2023 | | | | |
| 13 th | High Maximum | 83°F | 82°F in 2005 | | | | |
| 17 th | High Maximum | 84°F | 83°F in 2016 | | | | |

There were 14 daily record set at Galveston this month.



High Max

Low Max

Rainfall

Snow

High Min

Low Min

Key



Daily Record Reports – Palacios

| Date | Record Type | New Record | Previous Record |
|------------------|----------------|------------|-----------------|
| 3 rd | High Minimum | 76°F | 75°F in 1994 |
| 4 th | High Minimum | 78°F | 76°F in 1994 |
| 5 th | Daily Rainfall | 1.63" | 1.35" in 2014 |
| 7 th | High Maximum | 87°F – T | 87°F in 1945 |
| 8 th | High Maximum | 86°F – T | 86°F in 1989 |
| 11 th | High Maximum | 86°F – T | 86°F in 1978 |
| 13 th | High Maximum | 85°F – T | 85°F in 1955 |
| 17 th | High Minimum | 74°F | 72°F in 1952 |
| 19 th | High Maximum | 82°F – T | 82°F in 1985 |

There were 6 daily records set at Palacios this month.



Key

High Max

Low Max

Rainfall

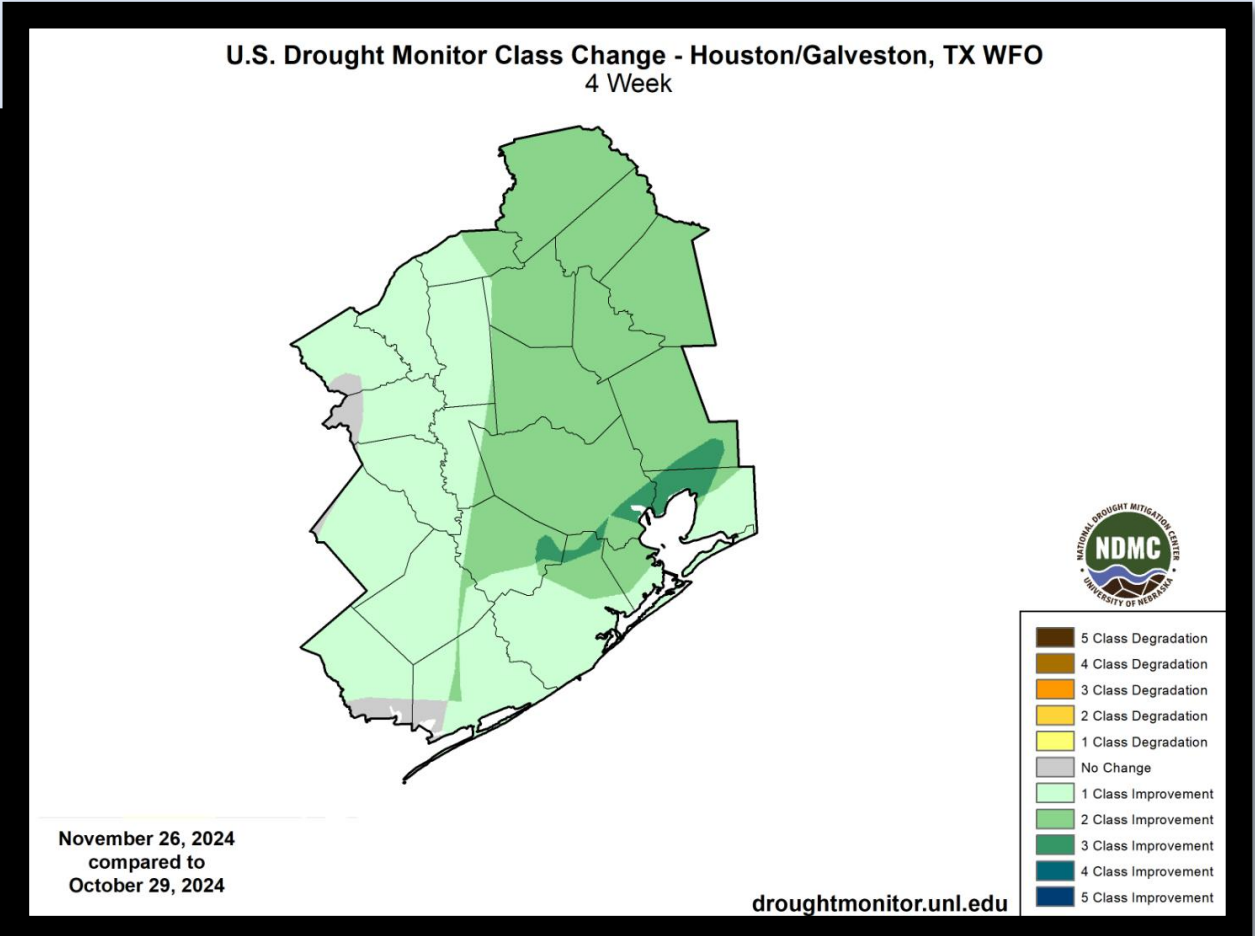
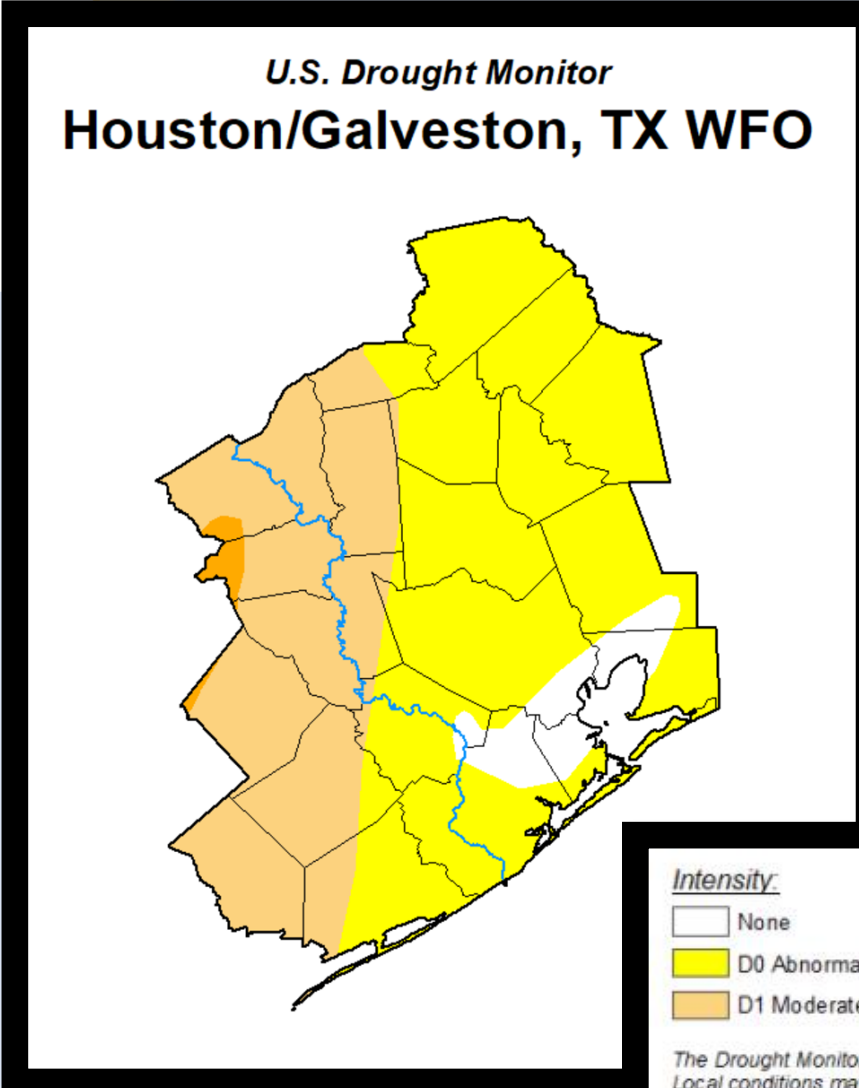
Snow

High Min

Low Min

Drought Monitor

As of November 26th



- 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

Intensity:

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

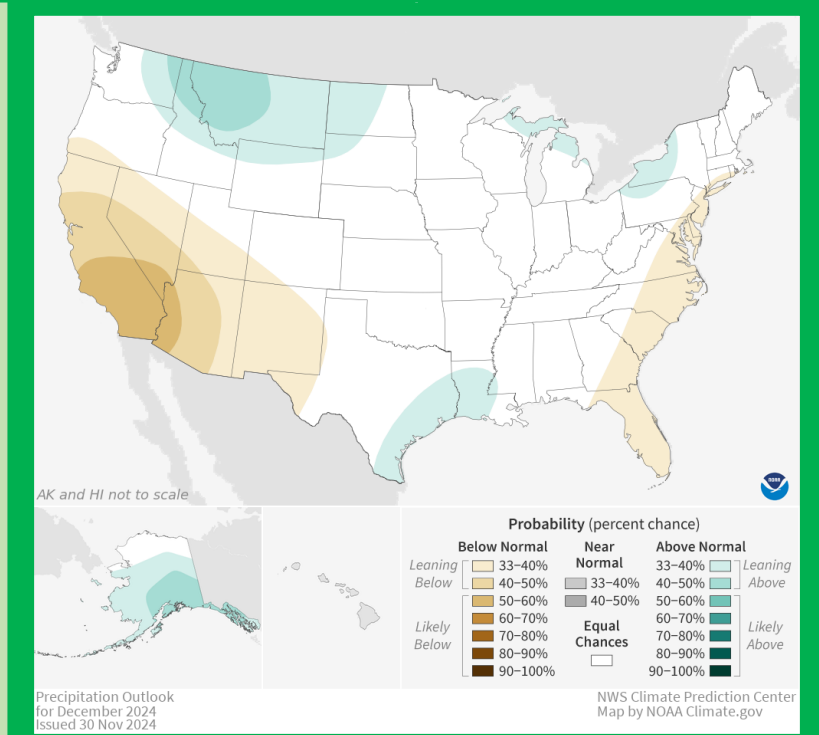
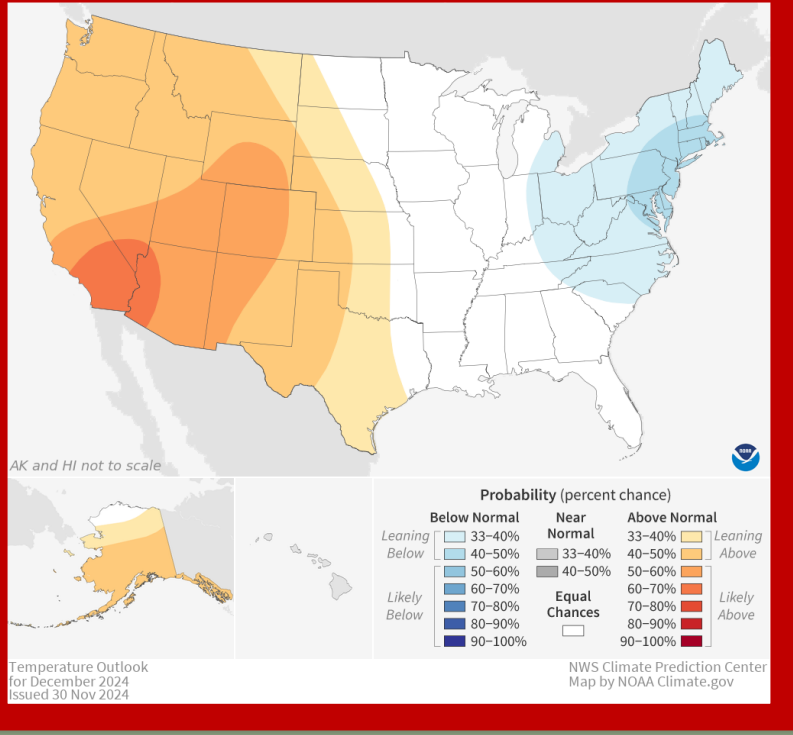
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>



December Outlook

| Location | Average Temp (°F) | Normal High (°F) | Normal Low (°F) |
|-----------------|-------------------|------------------|-----------------|
| Galveston | 58.5 | 65.5 | 51.6 |
| Houston Hobby | 56.9 | 65.7 | 48.0 |
| City of Houston | 55.4 | 65.3 | 45.6 |
| College Station | 53.1 | 63.4 | 42.8 |
| Palacios | 58.0 | 67.8 | 48.2 |

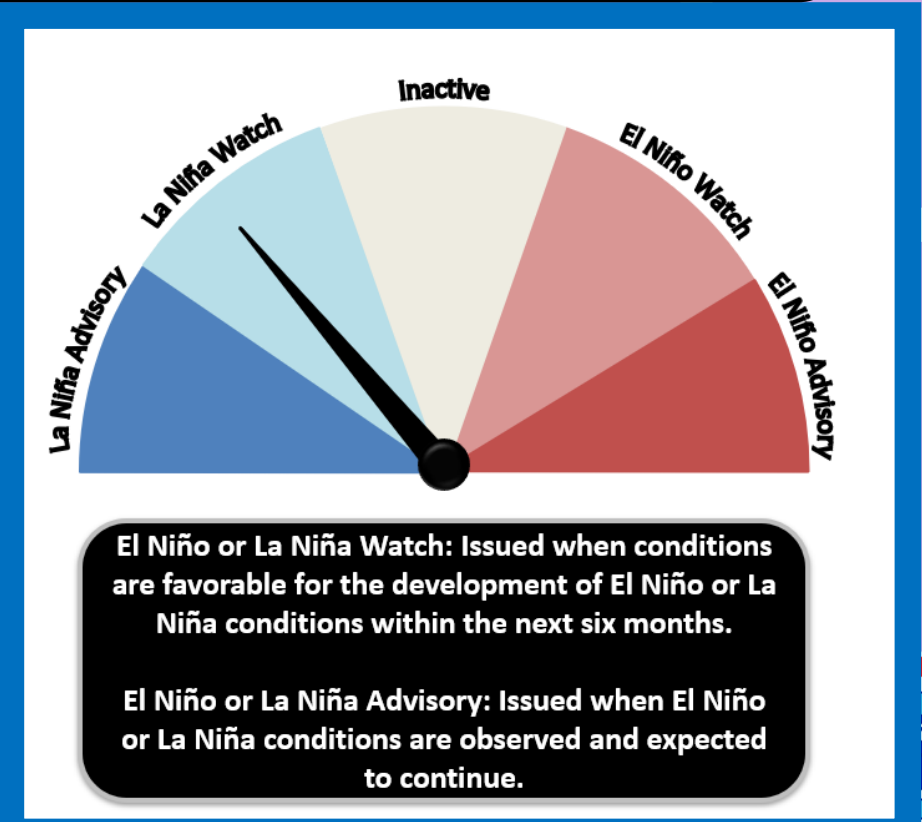
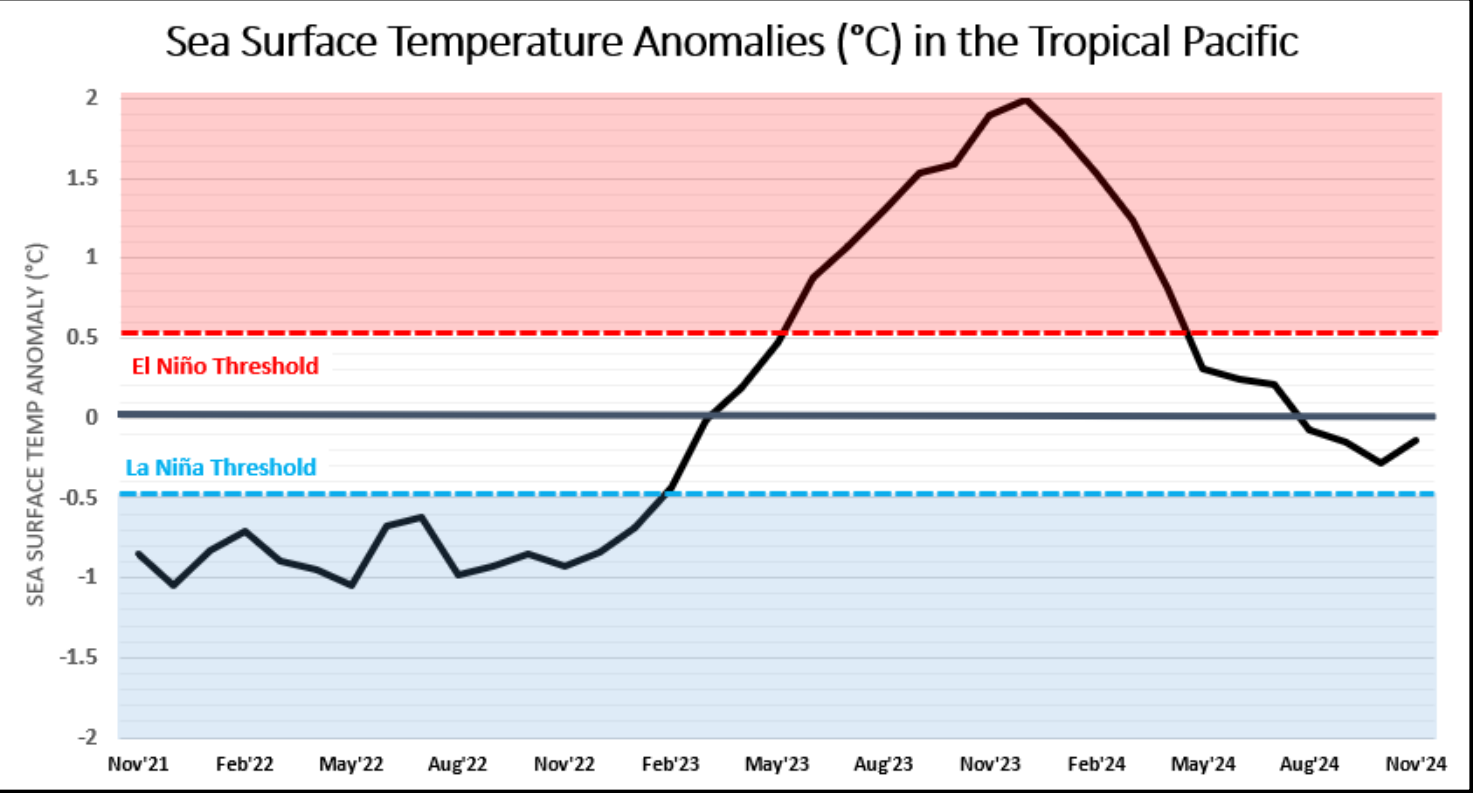
| Location | Normal Monthly Precipitation (in.) |
|-----------------|------------------------------------|
| Galveston | 4.23 |
| Houston Hobby | 4.34 |
| City of Houston | 4.03 |
| College Station | 3.71 |
| Palacios | 2.98 |



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 the end of December (57% 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.

