

Drought Information Statement for Southeast Texas

Valid September 3, 2023

Issued By: NWS Houston/Galveston Contact Information:

- This product will be updated September 8, 2023 or sooner if drought conditions change significantly.
- Please see all currently available products at https://drought.gov/drought-information-statements.
- Please visit https://www.weather.gov/hgx/DroughtInformationStatement for previous statements.





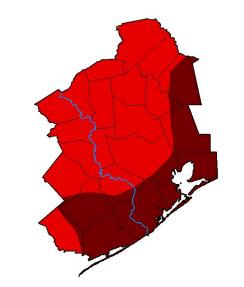




Link to the <u>latest U.S. Drought Monitor</u> for Southeast Texas

- DROUGHT CONDITIONS HEADLINE/KEY MESSAGE
- Drought intensity and Extent
 - D4 (Exceptional Drought): Liberty, San Jacinto, Polk, Chambers, Harris, Galveston, Brazoria, Fort Bend, Colorado, Wharton, Matagorda, Jackson
 - D3 (Extreme Drought): Burleson, Brazos, Madison, Houston, Trinity, Walker, Grimes, Washington, Austin, Waller, Montgomery
 - D2 (Severe Drought):
 - D1 (Moderate Drought):
 - D0: (Abnormally Dry):

U.S. Drought Monitor Houston/Galveston, TX WFO



August 29, 2023 (Released Thursday, Aug. 31, 2023)

Released Thursday, Aug. 31, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4		D4
Current	0.00	100.00	100.00	100.00	99.99	35.28
Last Week 08-22-2023	0.00	100.00	100.00	100.00	99.99	17.18
05-30-2023	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year 01-03-2023	84.11	15.89	6.96	0.00	0.00	0.00
Start of Water Year 09-27-2022	32.19	67.81	21.97	4.76	0.83	0.00
One Year Ago 08-30-2022	1.18	98.82	74.24	27.76	8.86	0.00

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

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

David Simeral Western Regional Climate Center







droughtmonitor.unl.edu

Image Caption: U.S. Drought Monitor valid 8am EDT August 29, 2023.

Recent Change in Drought Intensity

Link to the latest 1-week change map for Southeast Texas

- Four Week Drought Monitor Class Change.
 - Drought Worsened: Across portions of Colorado, Wharton, Fort Bend, Harris, Liberty, Chambers, Galveston, Brazoria, Matagorda, and Jackson counties.
 - No Change: Rest of the region.
 - Drought Improved: None.

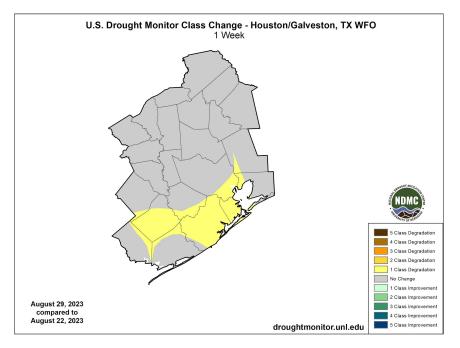


Image Caption: U.S. Drought Monitor 1-week change map valid 8am EDT August 29, 2023.



Precipitation

• Generally little to no rain has fallen in the last month, so rainfall totals remain about three to five inches below normal.

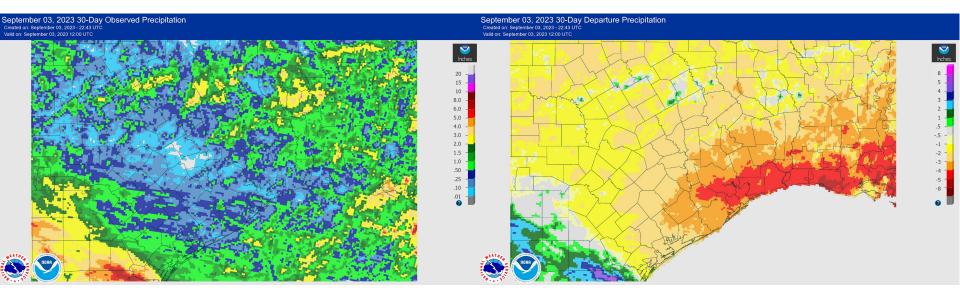
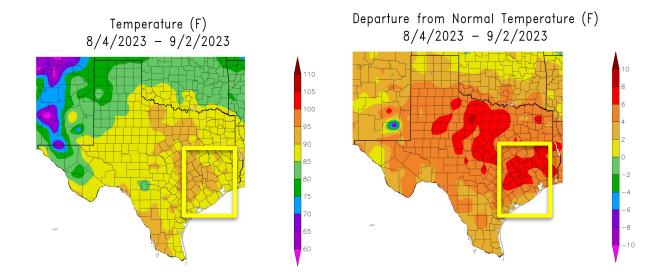


Image Captions: Left - Precipitation Amount for Southeast Texas Right - Percent of Normal Precipitation for Southeast Texas Data over the past 30 days ending September 3, 2023



- The extreme heat over the last month averaged around two to five degrees above normal.
- This summer has been the hottest on record for Southeast Texas.



Generated 9/3/2023 at HPRCC using provisional data.

NOAA Regional Climate Centers 23 at HPRCC using provisional data.

NOAA Regional Climate Centers

Image Captions:

Left - Average Temperature
Right - Departure from Normal Temperature
Data Courtesy High Plains Regional Climate Center.
Data over the past 30 days ending September 2, 2023



Links: See/submit Condition Monitoring Observer Reports (CMOR) and view the Drought Impacts Reporter

Hydrologic Impacts

Various communities across Southeast Texas have imposed Stage 1 to 3 water restrictions.

Agricultural Impacts

• In Jackson County, it has been reported that there is grass and forage loss through the county. Ranchers have begun feeding cattle due to dry pastures. Producers are also reporting disaster loss level cotton yields due to the lack of precipitation and high temperatures in during the growing season.

Fire Hazard Impacts

• Extremely dry fuels has led to numerous wildfires to develop across the area, especially in the Piney Woods area.

Reservoir Levels (as of September 3, 2023):

- Somerville Lake: 71.4%
- Lake Conroe: 91.2%
- Houston County Lake: 85.7%
- Livingston Reservoir: 85.8%
- Lake Texana: 74.2%
- Lake Houston: 95.9%
- Gibbons Creek Reservoir: 76.3%





Hydrologic Conditions and Impacts

Streamflows near
 Harris County remain
 near normal, but the
 rest of the region is
 reporting below normal
 to much below normal
 streamflows.

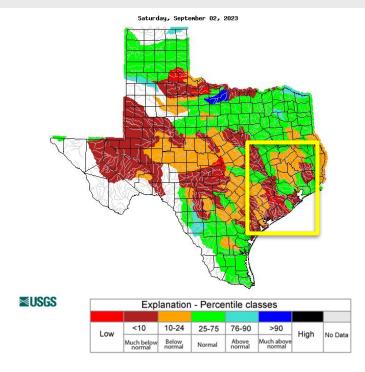
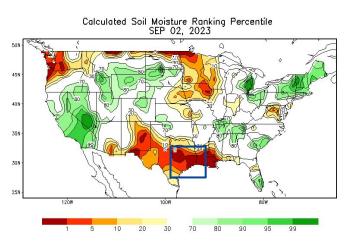


Image Caption: USGS 7 day average streamflow HUC map valid September 2, 2023



 Soil moisture remains in the lowest percentile across most of Southeast Texas.



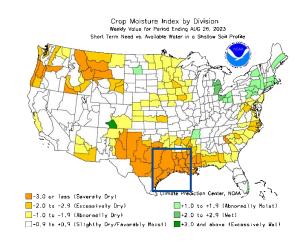


Image Captions:

Left: CPC Calculated <u>Soil Moisture Ranking</u> <u>Percentile</u> valid September,

Right: <u>Crop Moisture Index by Division</u>. Weekly value for period ending August 26, 2023

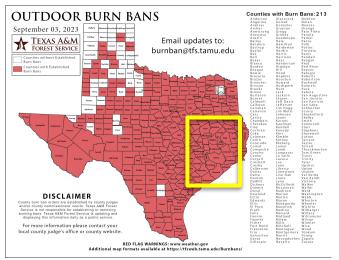




Link to Wildfire Potential Outlooks from the National Interagency Coordination Center.

- All of Southeast Texas remains in a Burn Ban.
- Wildland Fire Potential is much above normal for September.

Latest TX Burn Ban map available <u>here.</u>



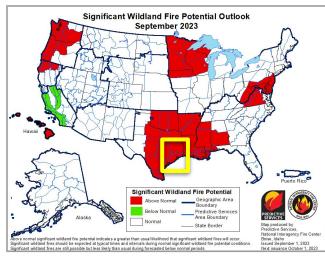


Image Caption: <u>Significant Wildland Fire</u>
<u>Potential Monthly Outlook</u> for September 2023





Seven Day Precipitation Forecast

 Some isolated showers and thunderstorms are possible across the next week generally producing less than half an inch of precipitation.

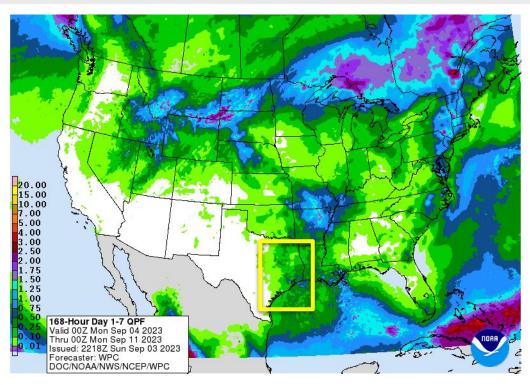


Image Caption: Weather Prediction Center <u>7-day precipitation forecast</u> valid MONTH DAY YEAR to MONTH DAY YEAR





Rapid Onset Drought Outlook

Links to the latest Climate Prediction Center 8 to 14 day Temperature Outlook and Precipitation Outlook.

- Excessive heat will remain an issue through the next week.
- Since the area is already in drought, the risk of rapid onset drought is low.

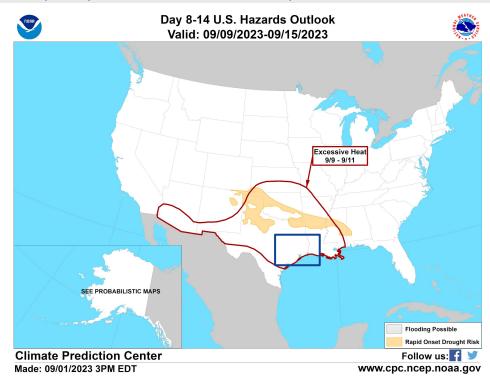


Image Caption:

Days 8 to 14 U.S. Hazards Outlook Valid Month DD to DD.



Long-Range Outlooks

The latest monthly and seasonal outlooks can be found on the CPC homepage

 For September, above normal temperatures and below normal precipitation is favored.

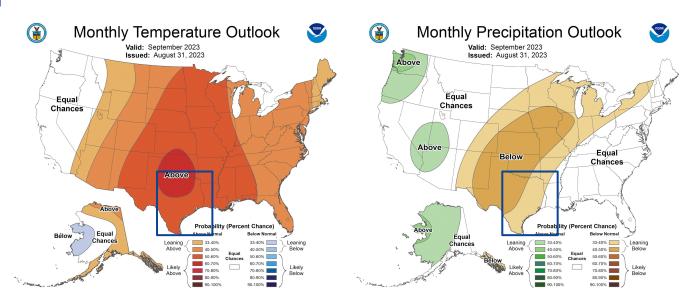


Image Captions:

Left - <u>Climate Prediction Center Monthly Temperature Outlook.</u>
Right - <u>Climate Prediction Center Monthly Precipitation Outlook.</u>
Valid September 2023



Drought Outlook

The latest monthly and seasonal outlooks can be found on the CPC homepage

 With the hot and dry weather continuing, drought will persist through September, and likely worsen.

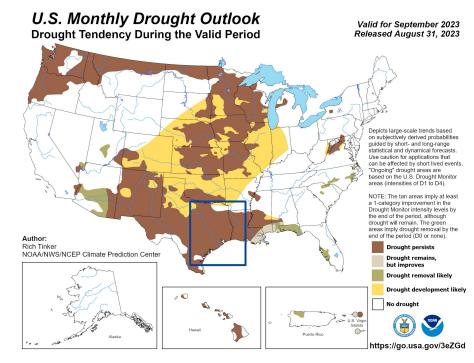


Image Caption:

Climate Prediction Center Monthly Drought Outlook Released August 31, 2023 valid for September 2023





Links to the latest: