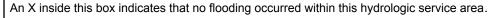


# September 2024 Monthly Hydrologic and Flood Stage Report (E5/E3)

NWS Austin/San Antonio, TX

Prepared by: Chris Morris
October 15, 2024

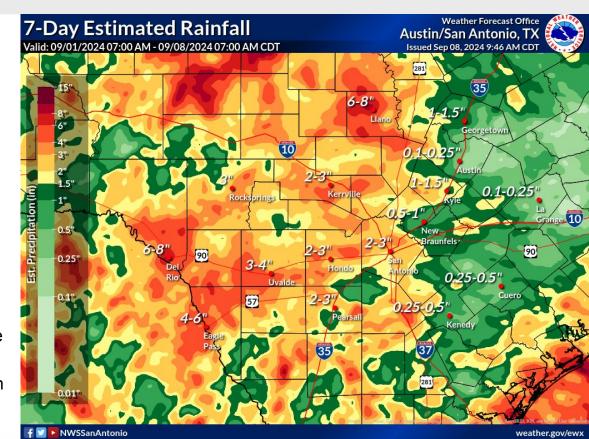




## Monthly Summary

**Key Messages** 

- September started off in the middle of a prolonged rainfall event.
  - A pair of forecast points reached flood stage in response to this rainfall.
- Outside of isolated showers, little additional rainfall occurred from the 9th through the end of the month.
- Given the lack of widespread rainfall, storage reservoirs in the central portion of the service area saw a decrease in storage while a few saw slight improvements.
- Monthly and seasonal outlooks continue to advertise both below normal rainfall and above normal temperatures through the end of the year.



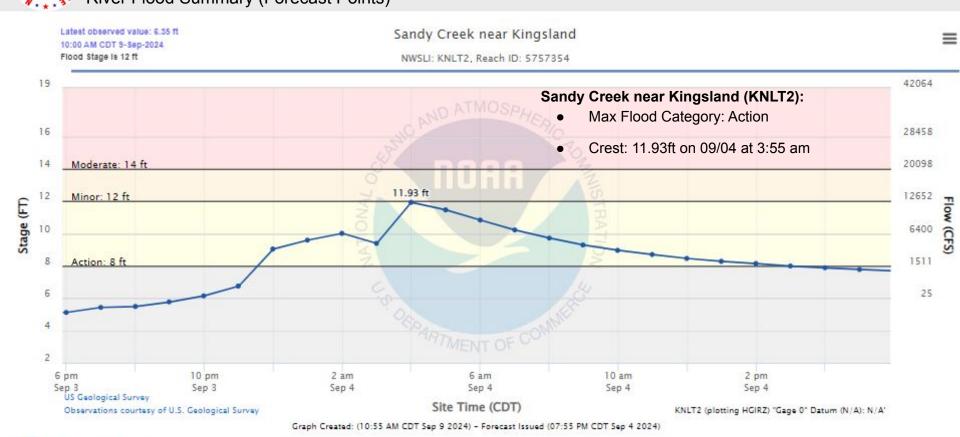


# Flood Stage Report (E3) River Flood Summary (Forecast Points)



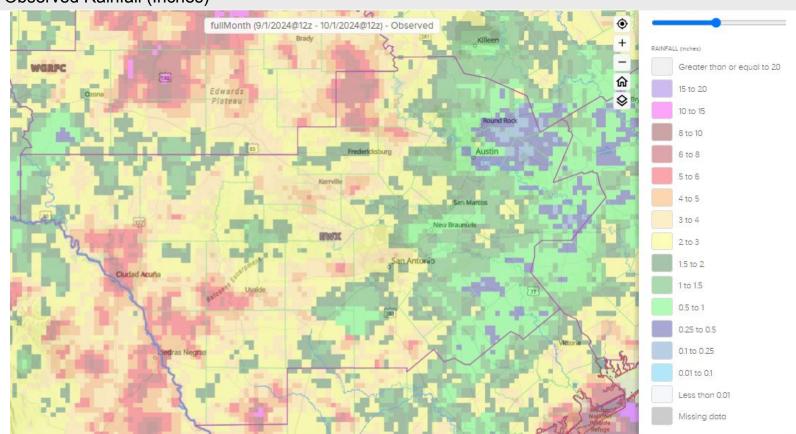


## Flood Stage Report (E3) River Flood Summary (Forecast Points)



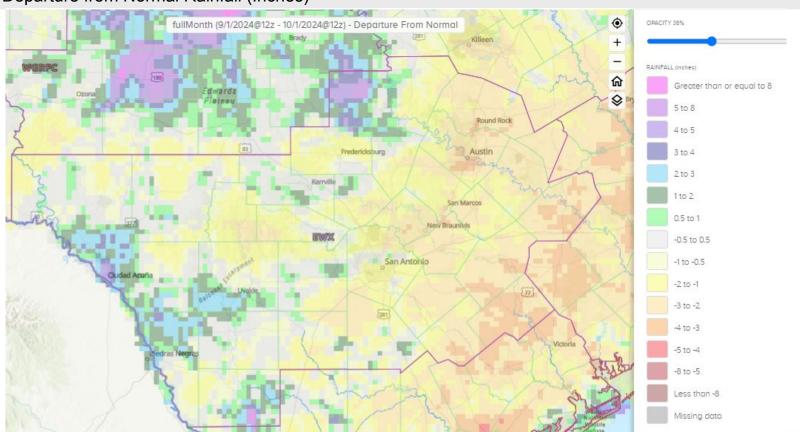


## Monthly Rainfall Observed Rainfall (Inches)



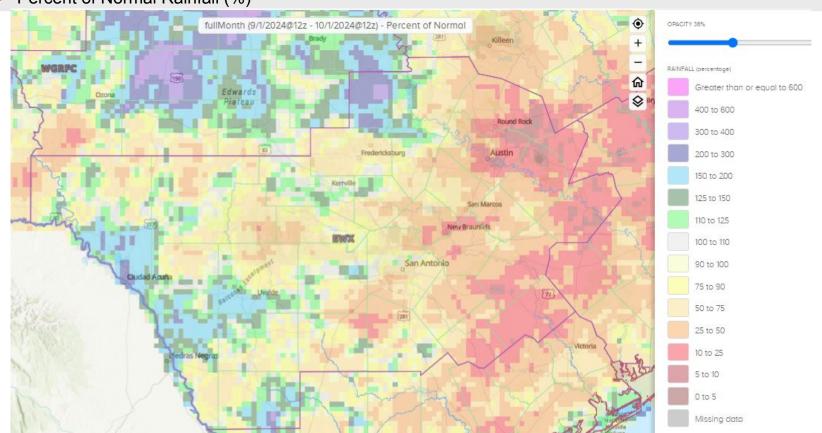


# Monthly Rainfall Departure from Normal Rainfall (Inches)





## Monthly Rainfall Percent of Normal Rainfall (%)







#### Climate Station Rainfall Data For the Month

Austin/San Antonio Area

	Monthly Rainfall	Monthly Average	2024 Rainfall Through Month	1991-2020 Normal Through Month	2024 Percent of Normal
Austin – Bergstrom	0.08"	3.03"	26.72"	26.03"	103%
Austin – Mabry	0.37"	3.45"	24.42"	26.70"	91%
Del Rio	6.68"	2.63"	10.14"	16.12"	63%
San Antonio	1.46"	3.88"	21.29"	24.55"	87%

<sup>\*</sup>The monthly averages and normal values are for the period 1991-2020





#### Climate Station Rainfall Data For the Month

Nearby Offices:

	Monthly Rainfall	Monthly Average	2024 Rainfall Through Month	1991-2020 Normal Through Month	2024 Percent of Normal
College Station	0.73"	3.50"	39.94"	29.80"	134%
Corpus Christi	6.50"	5.42"	26.04"	24.65"	106%
Laredo	1.82"	3.64"	8.28"	17.49"	47%
San Angelo	5.04"	2.51"	13.01"	16.46"	79%
Victoria	2.36"	4.53"	33.21"	31.17"	107%
Waco	1.17"	2.87"	29.84"	26.41"	113%

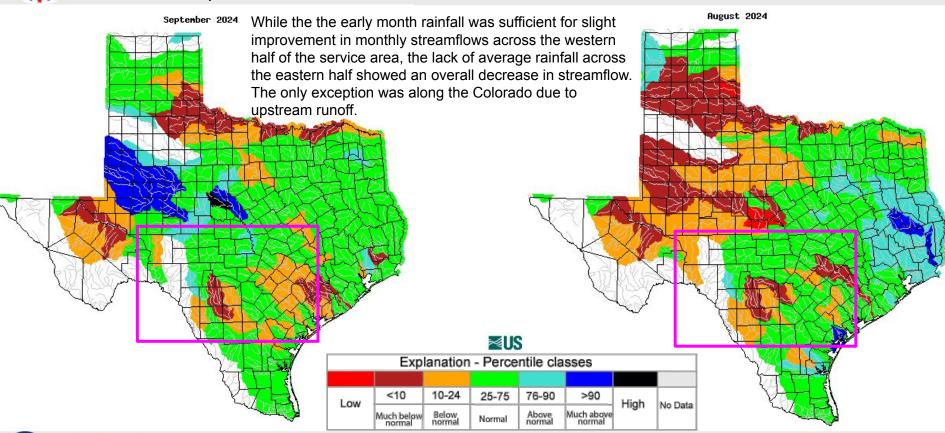
<sup>\*</sup>The monthly averages and normal values are for the period 1991-2020



# LATHER SER

#### **Monthly Historical Streamflow Comparison**

Streamflow Comparison





## Reservoir Data For the Month

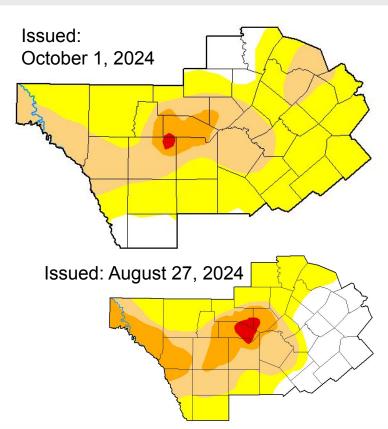
Data from the TWDB Water Data For Texas Dashboard

Reservoir	Conservation Elevation (feet)	End of Month Elevation (feet)	Monthly Change (Feet)
Lake Buchanan	1020	1005.49	0.15
Lake Travis	681	640.22	-0.55
Canyon Lake	909	883.77 New record low	-0.94
Medina Lake	1064.2	973.67	-0.96
Lake Amistad	1117	1051.43	2.74



Drought conditions over the month of September were a mixed bag. The western areas saw improvement from the early month rainfall while the lack of appreciable rainfall for the rest of the month caused drought conditions worsen across the east.

- D3 drought encompasses 0.33% of the CWA
- Drought doesn't affect 66% of the CWA

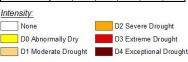


#### October 1, 2024

(Released Thursday, Oct. 3, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	9.75	56.59	28.92	4.42	0.33	0.00
Last Week 09-24-2024	37.68	37.68	19.90	4.42	0.33	0.00
3 Month's Ago 07-02-2024	33.59	14.43	20.90	21.36	9.72	0.00
Start of Calendar Year 01-02-2024	11.10	12.65	31.67	20.39	24.19	0.00
Start of Water Year 09-26-2023	7.30	10.81	13.65	8.95	22.09	37.20
One Year Ago 10-03-2023	7.30	10.81	14.54	8.29	21.87	37.20

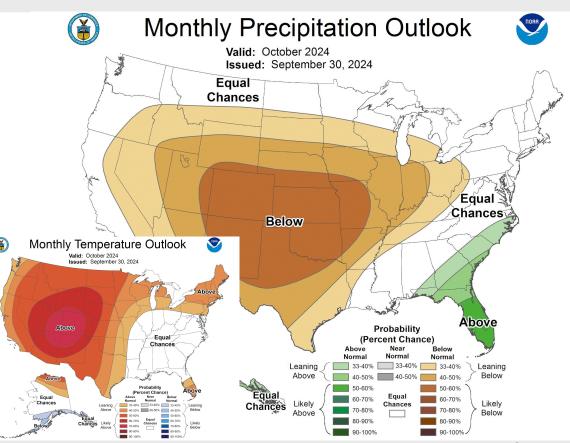




#### The most recent Monthly Outlook

- The Precipitation Outlook for the month of October shows a strong leaning towards below normal rainfall across the entire forecast area
- Like many months prior, the Temperature Outlook continues to advertise above normal temperatures for the entire service area for October

Click for latest graphics



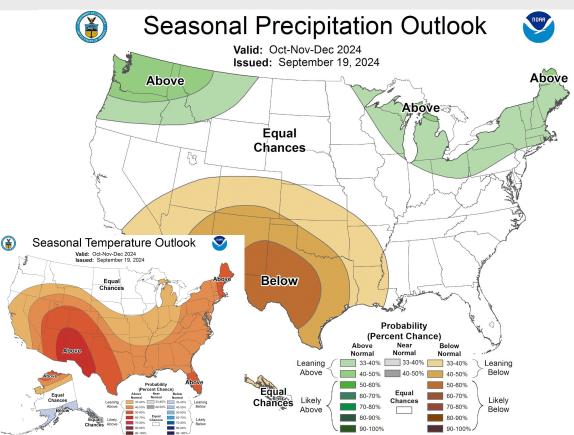




#### Looking at the Seasonal Outlooks

- The Precipitation Outlook for the late fall/winter shows the likelihood for below normal precipitation for the entire service area
- Much like the monthly outlook, the Seasonal Temperature Outlook shows the likelihood for above normal temperatures across the service area
- Should this outlook verify, water resources across the service area will continue to see a decline.

Click for latest graphics







## For additional rainfall, stream, soil moisture, or drought information please refer to the links provided below.

Daily, Monthly and Yearly summaries of precipitation and departure from normal are available from the West Gulf River Forecast Center at: <a href="http://www.weather.gov/wgrfc/">http://www.weather.gov/wgrfc/</a>

Or from the Precipitation Analysis page at: <a href="https://water.noaa.gov/">https://water.noaa.gov/</a>

Streamflow conditions are available from the United States Geological survey at: <a href="http://waterdata.usgs.gov/tx/nwis/rt">http://waterdata.usgs.gov/tx/nwis/rt</a>

Soil moisture conditions are available from the Climate Prediction Center at: <a href="http://www.cpc.ncep.noaa.gov/products/Soilmst\_Monitoring/US/Soilmst/Soilmst.shtml">http://www.cpc.ncep.noaa.gov/products/Soilmst\_Monitoring/US/Soilmst/Soilmst.shtml</a>

National Integrated Drought Information System: <a href="http://www.drought.gov/">http://www.drought.gov/</a>

