

November 2023 Monthly Hydrologic and Flood Stage Report (E5/E3)

NWS Austin/San Antonio, TX

Prepared by: Chris Morris December 8, 2023

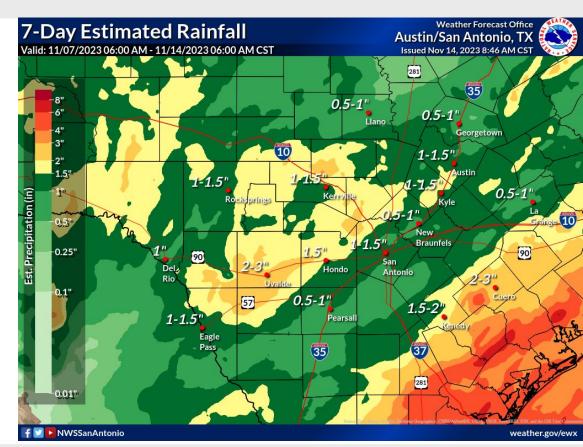


An X inside this box indicates that no flooding occurred within this hydrologic service area.





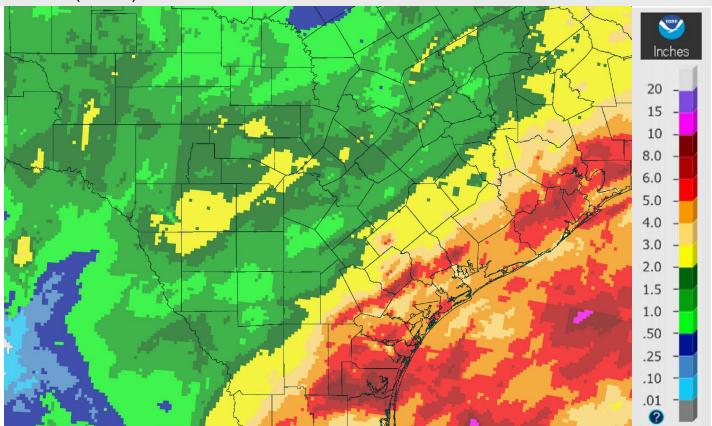
- The bulk of the precipitation seen over the course of the month of November fell from the 7th through the 14th.
- Portions of the the Rio Grande Plains,
 Hill Country, and Coastal Plains, saw the bulk of the rainfall during this period.
 - Maximum of 4-5 inches was seen in DeWitt County over this 7 day period.
- While rainfall amounts were healthy (2-4 inches in some places), below normal streamflows prevented any forecast point reaching minor flood stage.





National Weather Service Austin/San Antonio, TX

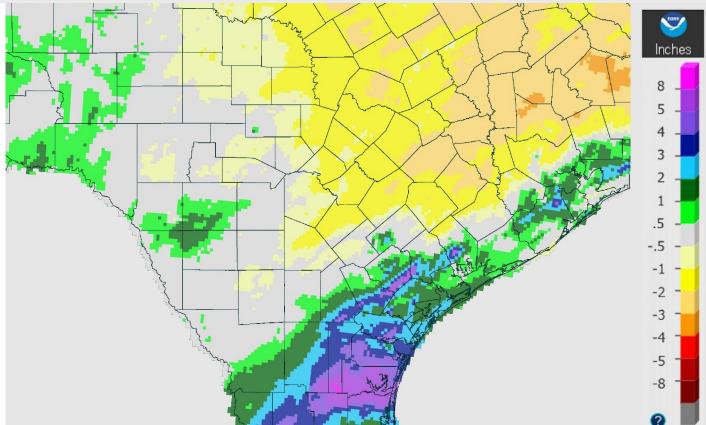
November 2023 Rainfall Observed Rainfall (Inches)





November 2023 Rainfall

Departure from Normal Rainfall (Inches)

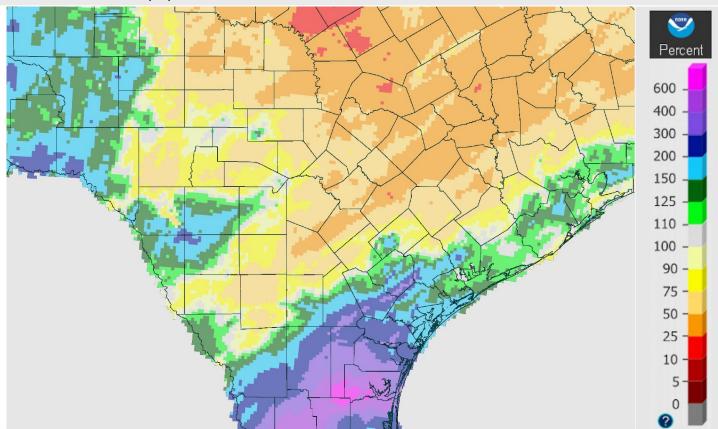






November 2023 Rainfall

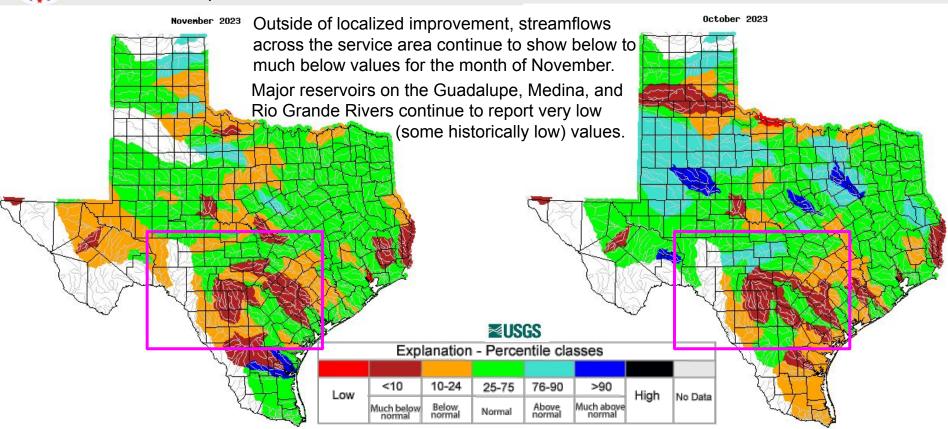
Percent of Normal Rainfall (%)





November 2023 - Historical Streamflow Comparison

Streamflow Comparison





National Weather Service Austin/San Antonio, TX



Climate Station Rainfall Data For the Month

Austin/San Antonio Area

	Monthly Rainfall	Monthly Average	2023 Rainfall Through Month	1991-2020 Normal Through Month	2023 Percent of Normal
Austin – Bergstrom	1.36"	2.68"	24.67"	32.96"	75%
Austin – Mabry	1.21"	2.92"	24.41"	33.53"	73%
Del Rio	0.74"	0.91"	14.45"	19.11"	76%
San Antonio	1.40"	2.08"	18.90"	30.38"	62%

^{*}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	2023 Rainfall Through Month	1991-2020 Normal Through Month	Percent of Normal
College Station	0.94"	3.31"	26.42"	37.50"	70%
Corpus Christi	4.10"	2.03"	27.26"	29.81"	91%
Laredo	1.29"	1.04"	22.34"	20.28"	110%
San Angelo	0.75"	1.16"	17.16"	20.04"	86%
Victoria	3.15"	2.93"	31.40"	38.07"	82%
Waco	1.95"	2.71"	26.20"	33.53"	78%

^{*}The monthly averages and normal values are for the period 1991-2020



Reservoir	Conservation Elevation (feet)	End of Month Elevation (feet)	Monthly Change (Feet)
Lake Buchanan	1020	994.04	0.15
Lake Travis	681	631.47	-0.74
Canyon Lake	909	888.36	-1.06
Medina Lake	1064.2	975.65	-0.66
Lake Amistad	1117	1061.75	-2.06





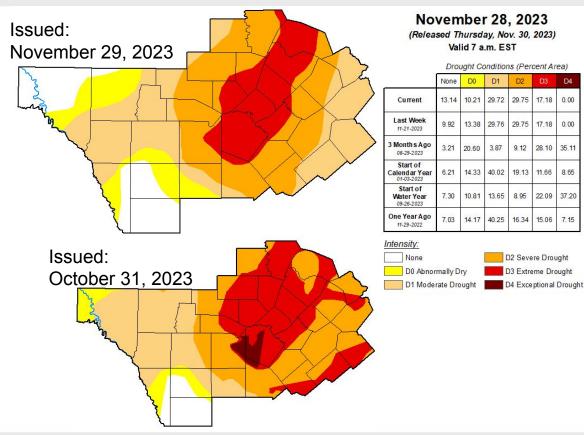
Hydrologic Products Issued for the Month

Product Issued	Number Issued	Additional Comments
River Flood Warning/Area Flood Warning (FLW)	0	
River Flood Statement/Area Flood Advisory (FLS)	0	
Flash Flood Watch (FFA)	0	
Flash Flood Warning (FFW)	0	
Flash Flood Statement (FFS)	0	
Hydrologic Outlook (ESF)	6	AHPS probabilistic forecasts for the Brazos, Colorado, Guadalupe, San Antonio, Pecos, and Nueces Rivers



Some improvement in drought conditions were seen across portions of the service area, including the removal of the Exceptional Drought (D4) category due to the heavy rain event earl in the month.

- D3/D4 drought encompasses
 17% of the CWA
- Drought doesn't affect 23% of the CWA



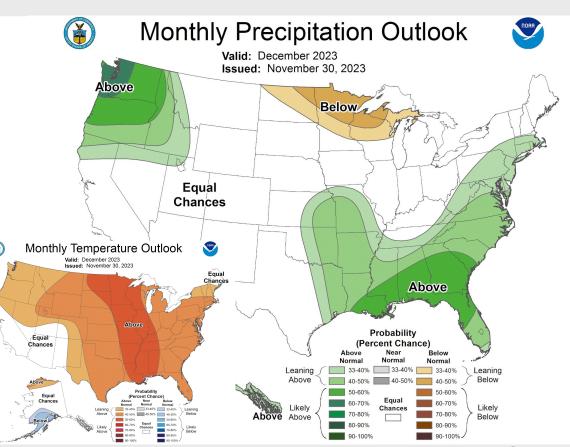




The most recent Monthly Outlook

- The Precipitation Outlook shows equal chances of above, near, or below normal precipitation for the month of December.
- The Temperature Outlook leans towards above normal temperatures for the month of December.

Click for latest graphics



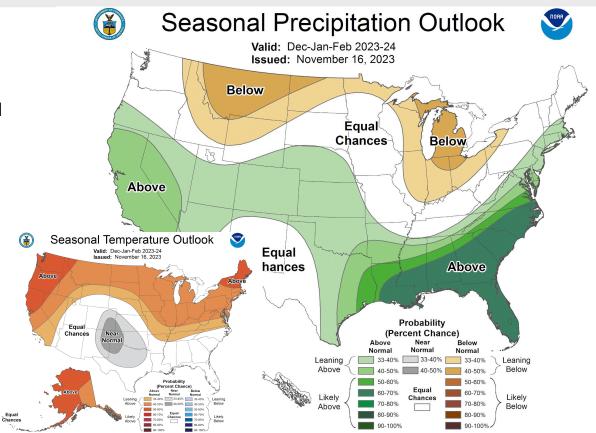




Looking at the Seasonal Outlooks

- The Precipitation Outlook leans towards chances for above normal precipitation through winter.
- The Temperature Outlook shows equal chances for either above, below, or near normal into early next year.

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: http://www.weather.gov/wgrfc/

Or from the Precipitation Analysis page at: http://water.weather.gov/precip/

Streamflow conditions are available from the United States Geological survey at: http://waterdata.usgs.gov/tx/nwis/rt

Soil moisture conditions are available from the Climate Prediction Center at: http://www.cpc.ncep.noaa.gov/products/Soilmst_Monitoring/US/Soilmst/Soilmst.shtml

National Integrated Drought Information System: http://www.drought.gov/

