

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

NWS Austin/San Antonio, TX

Prepared by: Chris Morris March 15, 2024



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





- Much of the area saw near to below normal rainfall for the month of February
 - Portions of the Coastal Plains saw above normal rainfall while much of the Rio Grande Plains and southern Edwards saw well below normal rainfall
- For the Coastal Plains, the bulk of the month's rainfall occurred on Feb 2nd
 - Late January storms saturated soils along the Coastal Plains to increase runoff
 - Despite the pre-existing conditions, only a few forecast points reached action stage and remained below minor flood stage





National Weather Service Austin/San Antonio, TX

Feb Observ

February 2024 Rainfall

Observed Rainfall (Inches)





National Weather Service Austin/San Antonio, TX

February 2024 Rainfall Departure from Normal Rainfall (Inches)



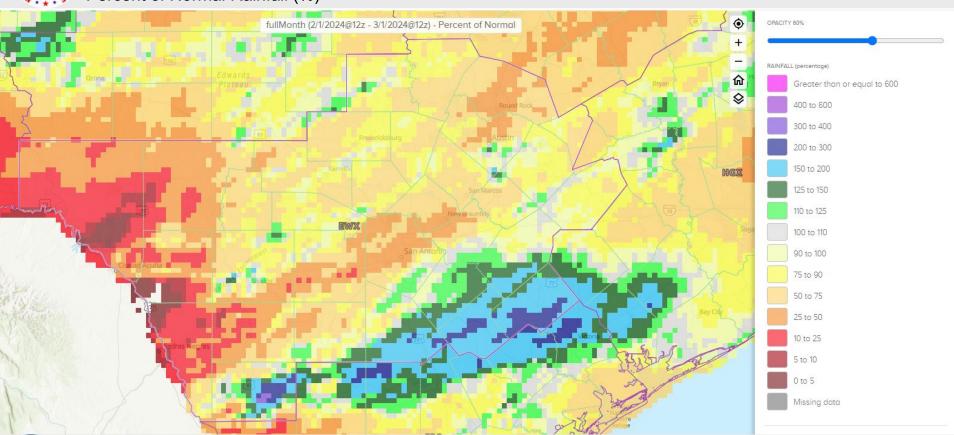


National Weather Service Austin/San Antonio, TX

February 2024 Rainfall Percent of Normal Rainfall (%)

National Oceanic and Atmospheric Administration

U.S. Department of Commerce



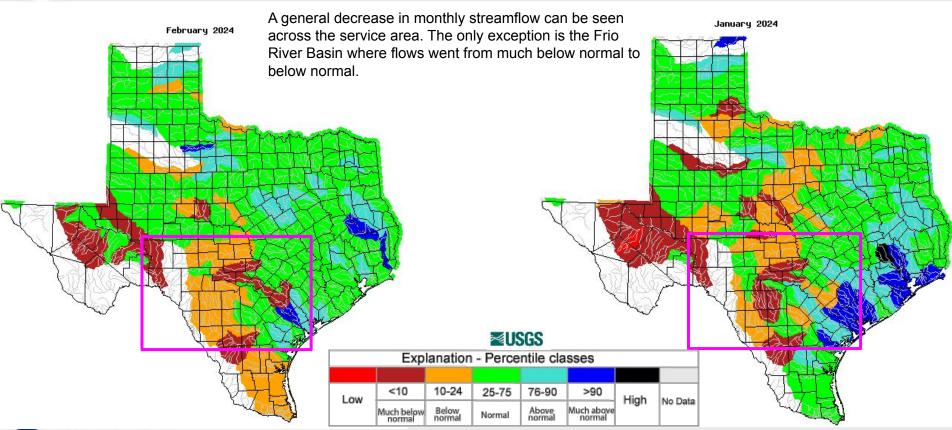
National Weather Service

Austin/San Antonio, TX



February 2024 - 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	2024 Rainfall Through Month	1991-2020 Normal Through Month	2024 Percent of Normal
Austin – Bergstrom	2.09"	1.89"	8.86"	4.71"	188%
Austin – Mabry	0.99"	1.89"	7.06"	4.53"	156%
Del Rio	0.40"	0.63"	0.57"	1.24"	46%
San Antonio	0.87"	1.74"	7.59"	3.70"	205%

^{*}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	3.09"	2.90"	10.87"	6.33"	172%
Corpus Christi	1.10"	1.29"	4.51"	2.68"	168%
Laredo	0.25"	0.83"	0.69"	1.73"	40%
San Angelo	0.63"	1.20"	1.14"	2.12"	54%
Victoria	3.16"	1.96"	10.83"	4.63"	234%
Waco	1.60"	2.68"	6.15"	5.27"	117%

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



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	944.80	0.38
Lake Travis	681	631.62	0.16
Canyon Lake	909	887.55	-0.12
Medina Lake	1064.2	973.87	-0.76
Lake Amistad	1117	1050.72	-8.27





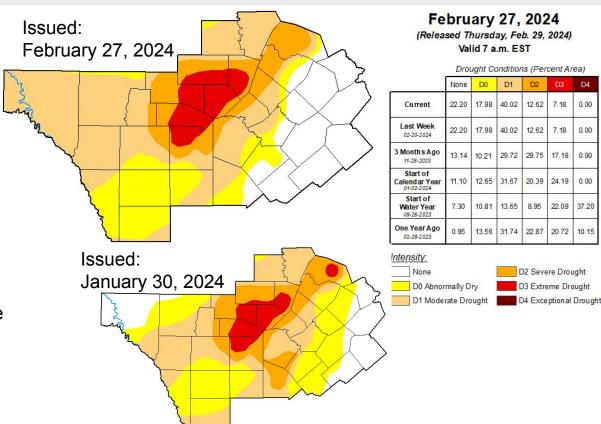
Hydrologic Products Issued for the Month

Product Issued	Number Issued	Additional Comments
River Flood Warning/Area Flood Warning (FLW)	0	
River Flood Statement/Area Flood Advisory (FLS)	4	6 Areal Flood Advisories
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



The above normal precipitation across the Coastal Plains during the early portion of the month helped to further scrape away drought conditions. However, below normal rainfall for the southern Edwards Plateau and Rio Grande Plains allowed drought to develop and worsen over the month.

- D3 drought encompasses 7% of the CWA
- Drought doesn't affect 40% of the CWA



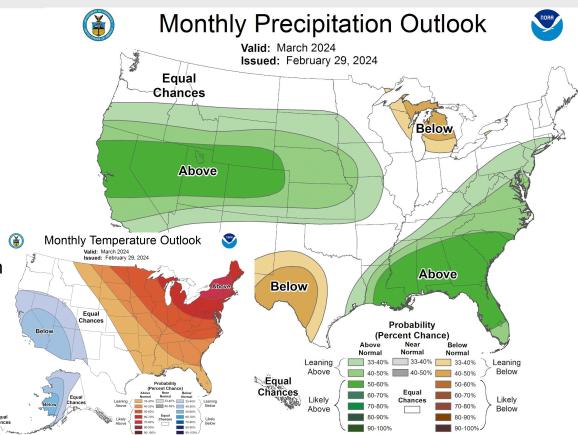




The most recent Monthly Outlook

- The Precipitation Outlook for the month of March shows below normal rainfall for much of the area with only the far eastern Coastal Plains and I-35 Corridor having equal chances for above, below, or near normal rainfall chances.
- The Temperature Outlook for March shows equal chances for at, below, or near normal values.

Click for latest graphics



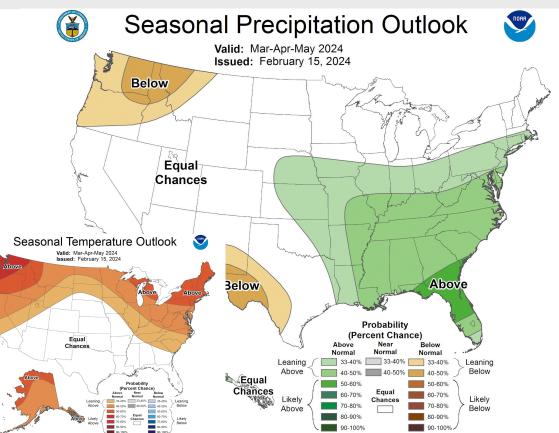




Looking at the Seasonal Outlooks

- The Precipitation Outlook shows equal chances of above, below, or near normal precipitation for the eastern half of the service area
 - However, the western half is shown to lean towards below normal rainfall
- The Temperature Outlook shows equal chances for either above, below, or near normal across the service area.

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/

