

February 2023 Monthly Hydrologic Report (E5)

NWS Austin/San Antonio, TX

Prepared by: Chris Morris March 8, 2023





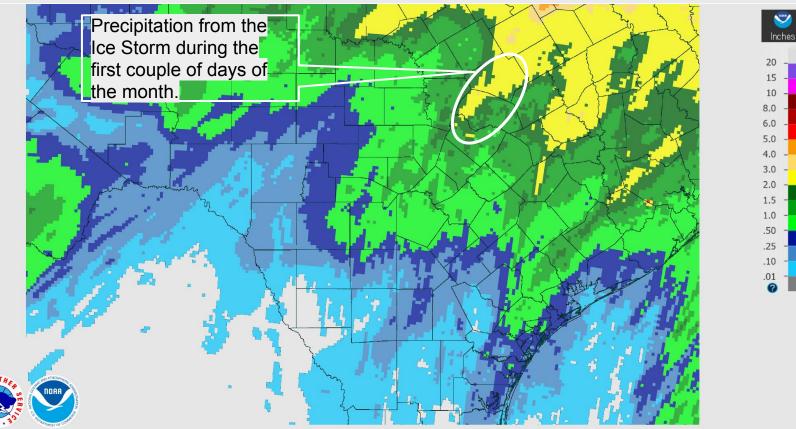
- The month began in the middle of an ice storm with early morning rainfall amounts of 1/2 to 1 1/2 inch of rain and freezing pelting the I-35 corridor with icing on area surfaces and vegetation, and leading to widespread power outages over the Hill Country and Austin metropolitan area. Meanwhile areas along and west of Hwy 83 saw much lighter amounts of around 1/10 inch.
- Fire weather activity increased during mid-February where near critical fire weather conditions were observed on 9th, 10th, 15th, and 16th across the southern Edwards Plateau, and Winter Garden. On the 14th, the I-35 corridor and Hill Country experienced near critical fire weather conditions while the Edwards Plateau and Winter Garden experienced critical fire weather conditions.
- A cold front dropped into the forecast area during the day on the 22nd before becoming stalled. Convection along the front gradually weakened as it moved across the Edwards Plateau and northern Hill Country. Rainfall amounts were generally less than a 0.10" but a few isolated amounts reached 0.25".
- Outside of drizzle across portions of the area from the 23rd through the end of the month, no appreciable rainfall occurred during the second half of the month.

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



February 2023 Rainfall

Observed Rainfall (Inches)



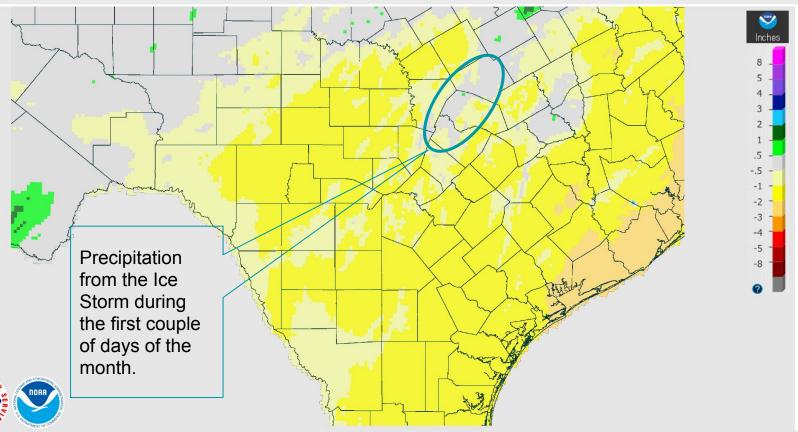


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Departure from Normal Rainfall (Inches)



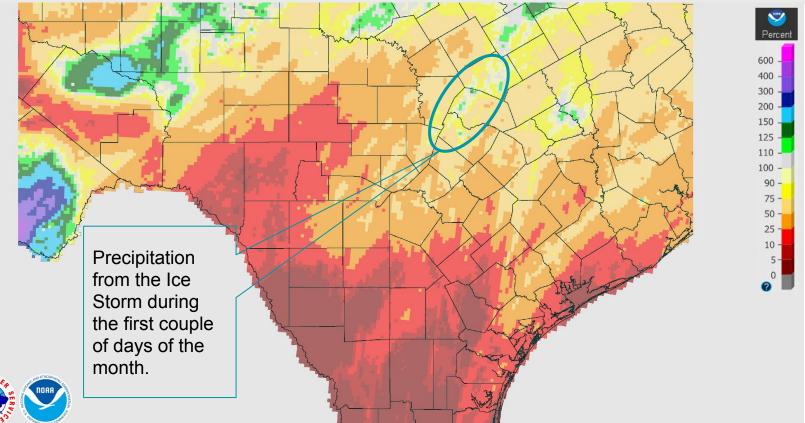
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February 2023 Rainfall

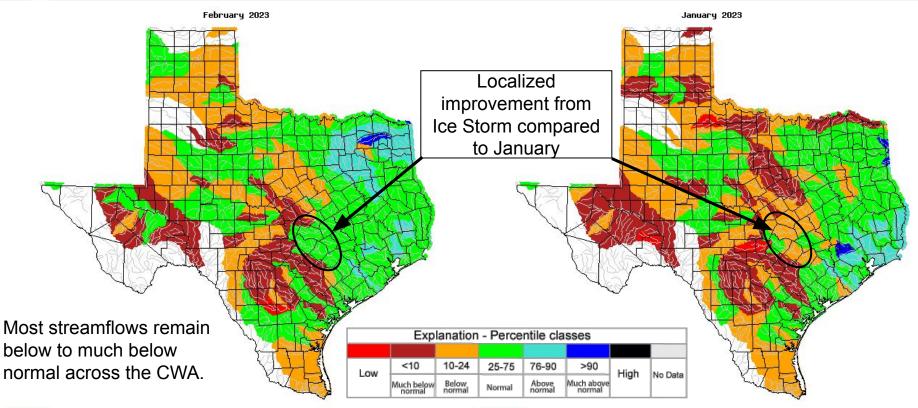
Percent of Normal Rainfall (%)





February 2023 - Historical Streamflow Comparison

Streamflow Comparison





National Oceanic and Atmospheric Administration





Austin/San Antonio Area

	Monthly Rainfall	Monthly Average	2023 Rainfall Through Month	1991-2020 Normal Through Month	Percent of Normal
Austin – Bergstrom	1.51"	1.89"	3.04"	4.71"	65%
Austin – Mabry	1.78"	1.89"	2.52"	4.53"	56%
Del Rio	0.07"	0.63"	0.21"	1.24"	17%
San Antonio	1.17"	1.74"	1.86"	3.70"	50%

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





Nearby Offices:

	Monthly Rainfall	Monthly Average	2023 Rainfall Through Month	1991-2020 Normal Through Month	Percent of Normal
College Station	2.93"	2.90"	4.97"	6.33"	79%
Corpus Christi	0.19"	1.29"	0.91"	2.68"	34%
Laredo	0.02"	0.83"	0.33"	1.73"	19%
San Angelo	0.91"	1.20"	1.46"	2.12"	69%
Victoria	1.12"	1.96"	7.29"	4.63"	157%
Waco	3.29"	2.68"	4.72"	5.27"	90%

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



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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	1001.9	-0.46
Lake Travis	681	639.5	0.18
Canyon Lake	909	897.8	-0.53
Medina Lake	1064.2	982.6	-0.95
Lake Amistad	1117	1081.52	-1.32



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Hydrologic Products Issued for the Month

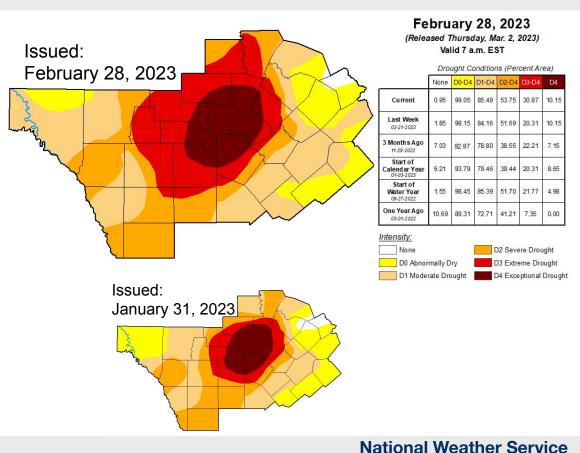
Product Issued	Number Issued	Additional Comments
River Flood Warning (FLW)	0	
River Flood Statement/Flood Advisory (FLS)	0	
Hydrologic Statement (RVS)	0	
Flash Flood Watch (FFA)	0	
Flash Flood Warning (FFW)	0	
Flash Flood Statement (FFS)	0	
Hydrologic Outlook (ESF)	6	AHPS probabilistic forecasts for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

Monthly Drought Monitor Comparison

Drought conditions worsened as we progressed through the month and appreciable precipitation was lacking. What help previous month precipitation, multiple days of fire weather conditions resulted in drought categories degraded across the Edwards Plateau, Winter Garden, and Hill Country.

- D3/D4 drought encompasses 31% of the CWA
- Drought doesn't affect 15% of the CWA



Austin/San Antonio, TX

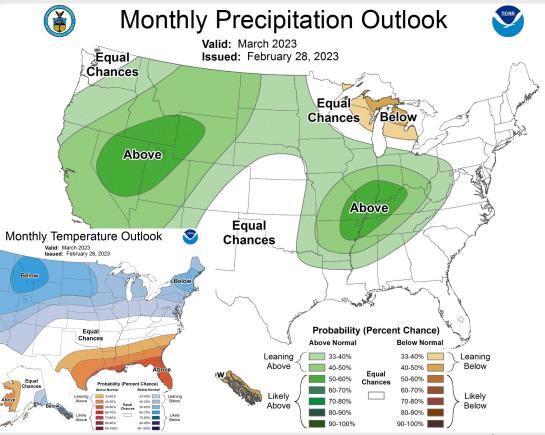




Looking at the Monthly Outlook for March

- The Precipitation Outlook has trended towards equal chances for above, below, normal amounts.
- The Temperature Outlook continues to lean towards above normal for the entire area.

Click for latest graphics



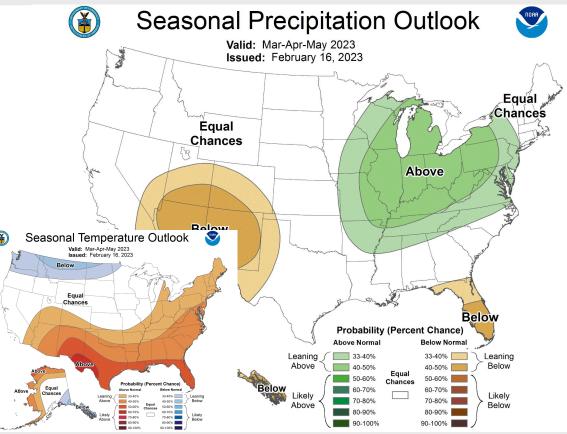




Looking at the Seasonal Outlooks

- The Precipitation Outlook continues to show equal chances for above, below, normal amounts.
- The Temperature Outlook continues to show above normal for the entire 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: <u>http://www.weather.gov/wgrfc/</u>

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

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

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: <u>http://www.drought.gov/</u>



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