

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

NWS Austin/San Antonio, TX

Prepared by: Chris Morris September 9, 2024



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





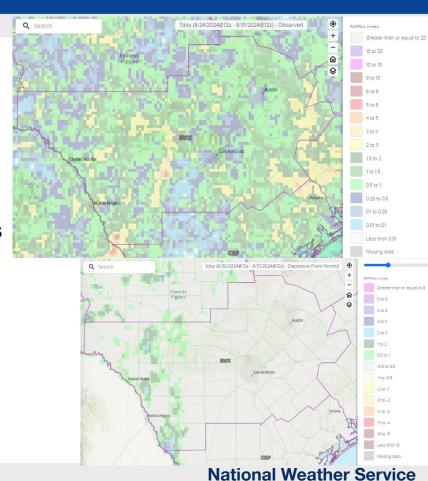
- Overall August was bookended with localized above normal rainfall while the remainder of the month was warm and saw below normal rainfall
 - Despite locally heavy rainfall during these bookend rainfall events, streamflows didn't response enough to cause river forecast points to reach minor flood stage
- After seeing some improvement in reservoir levels in July, August showed a return to the long term trend of decreasing storage
- Given the above normal temperatures and a lack of appreciable moisture for the majority of the month, the drought monitor showed drought categories persist or expand across the service area
- The monthly outlook for September shows chances for above normal precipitation chances which would be beneficial for reservoirs and drought conditions



Monthly Summary

Late month rainfall

- The rainfall between the 24th and 31st represented the majority of the monthly rainfall for August
 - Top right image is the 7-day observed rainfall; the bottom right image is the 7-day departure from normal rainfall during the same period
- Locations that saw the most benefit were portions of the southern Edwards Plateau and Rio Grande Plains
- Despite this rainfall, reservoirs in that portion of the service area saw little benefit
- Outside of urbanized and rural flooding, no river forecast points reached minor flood stage by the end of the month



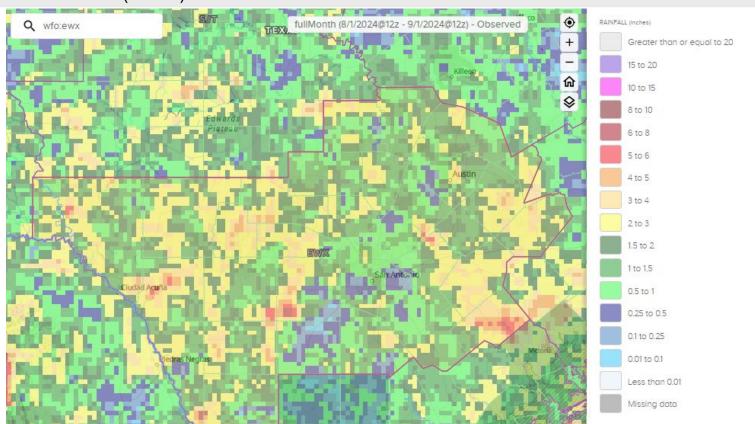
Austin/San Antonio, TX



Hydrologic Products Issued for the Month

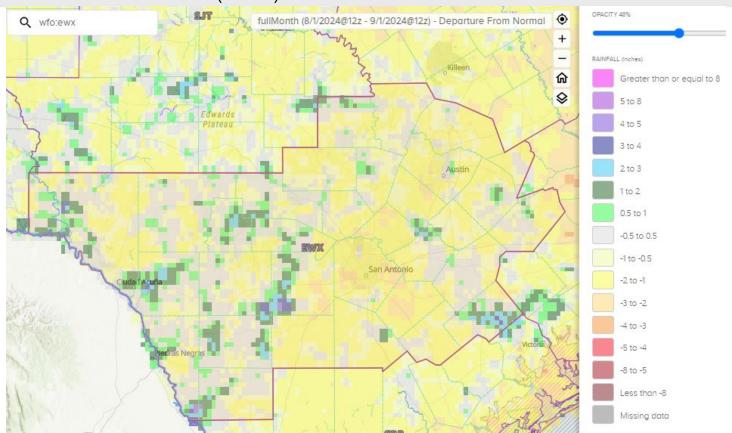
Product Issued	Number Issued	Additional Comments
River Flood Warning/Area Flood Warning (FLW)	0	
River Flood Statement/Area Flood Advisory (FLS)	16	
Flood Watch (FFA)	0	
Flash Flood Warning (FFW)	0	
Flash Flood Statement (FFS)	0	
Hydrologic Outlook (ESF)	6	AHPS probabilistic forecasts for the Brazos, Colorado, Guadalupe, San Antonio, Pecos, and Nueces Rivers





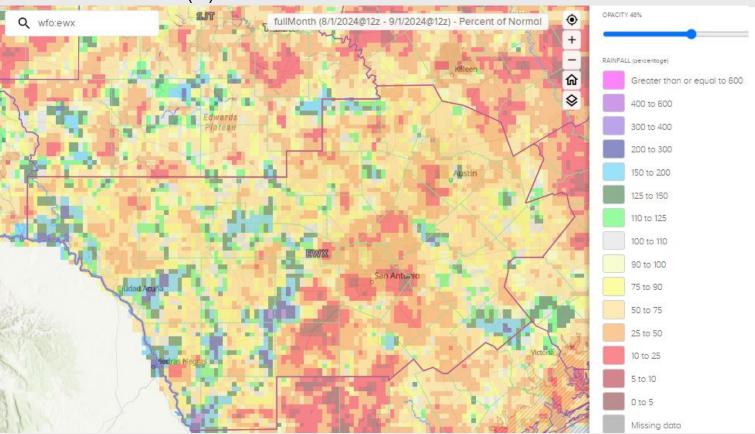


Monthly Rainfall Departure from Normal Rainfall (Inches)





Monthly Rainfall Percent of Normal Rainfall (%)





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	1.26"	2.47"	26.64"	23.00"	116%
Austin – Mabry	1.51"	2.74"	24.05"	23.25"	103%
Del Rio	1.23"	2.69"	3.46"	13.49"	26%
San Antonio	0.38"	2.15"	19.83"	20.67"	96%

^{*}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	0.70"	3.10"	39.21"	26.30"	149%
Corpus Christi	0.56"	2.75"	19.54"	19.23"	102%
Laredo	0.17"	1.68"	6.46"	13.85"	47%
San Angelo	0.44"	2.42"	7.97"	13.95"	57%
Victoria	1.45"	3.11"	30.85"	26.64"	116%
Waco	0.20"	2.05"	28.67"	23.54"	122%

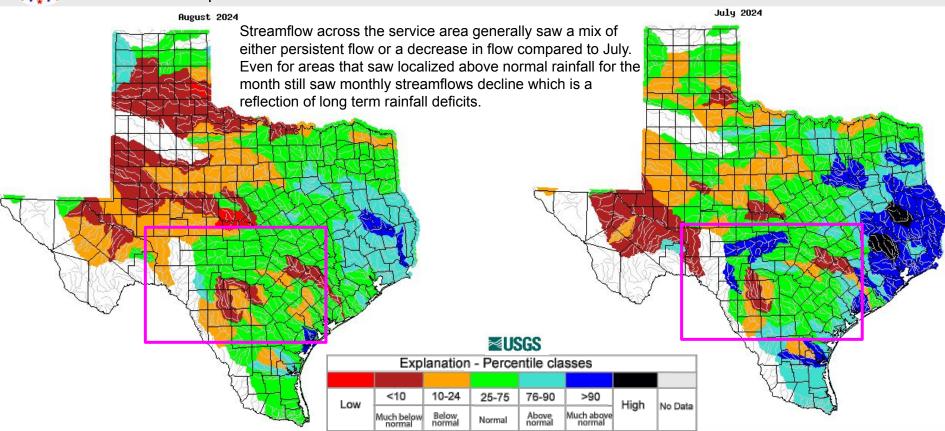
^{*}The monthly averages and normal values are for the period 1991-2020



WEATHER SERVICE

Monthly Historical Streamflow Comparison

Streamflow Comparison





National Weather Service Austin/San Antonio, TX

Reservoir Data For the Month

Data from the TWDB Water Data For Texas Dashboard

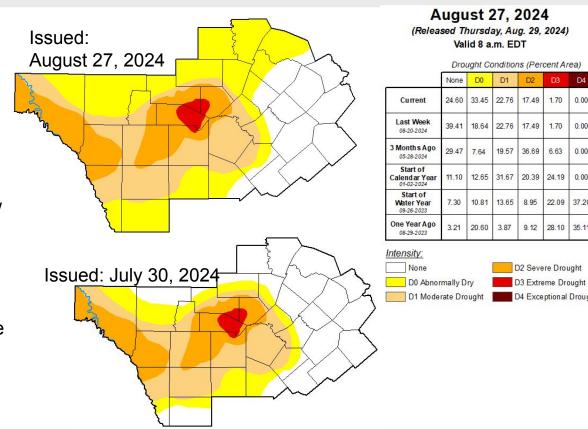
Reservoir	Conservation Elevation (feet)	End of Month Elevation (feet)	Monthly Change (Feet)
Lake Buchanan	1020	1005.34	-1.83
Lake Travis	681	640.77	-1.2
Canyon Lake	909	884.71	-1.24
Medina Lake	1064.2	974.63	-1.32
Lake Amistad	1117	1048.69	-0.08



Slightly below normal rainfall, minus a few localized spots that saw above normal rainfall, and well above normal temperatures led to persistent to a slight expansion of drought conditions during the month of August.

Long term rainfall deficits, and very low water resource reservoirs continue to drive the worst drought category.

- D3 drought encompasses 1.7% of the CWA
- Drought doesn't affect 58% of the CWA





Valid 8 a.m. EDT

Drought Conditions (Percent Area)

18.64 22.76 17.49

3.87

10.81 13.65 8.95

19.57 36.69

1 70

1.70

6.63

9.12 28.10 35.11

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional Drought

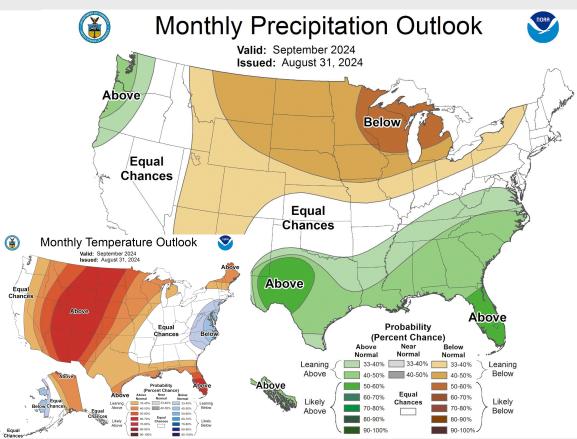
22.09 37.20



The most recent Monthly Outlook

- The Precipitation Outlook for the month of September shows chances for above normal rainfall for all of the service area
 - A greater chance for above normal rainfall is shown over the southern Edwards Plateau
- The Temperature Outlooks leans towards above normal for much of the service area for September

Click for latest graphics



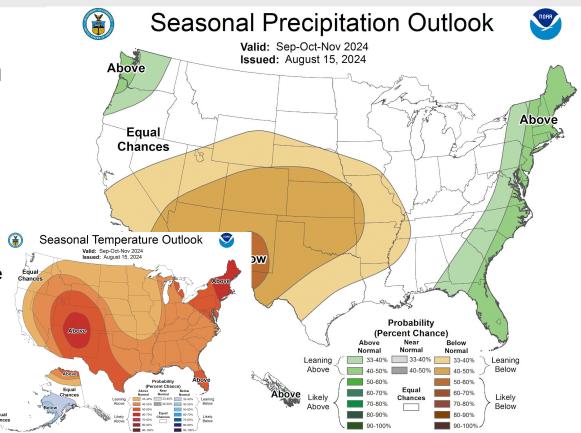




Looking at the Seasonal Outlooks

- The Precipitation Outlook shows equal chances of above, below, or near normal precipitation for the Winter Garden, and Coastal Plains however:
 - The remainder of the service area leans slightly towards below normal precipitation chances
- The Temperature Outlook shows above normal temperatures across the service area

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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: https://water.noaa.gov/

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/

