



June 2024

Monthly Hydrologic and Flood

Stage Report (E5/E3)

NWS Austin/San Antonio, TX

Prepared by: Chris Morris

July 8, 2024

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



National Oceanic and
Atmospheric Administration

U.S. Department of Commerce



Monthly Summary

Key Messages

- Despite Tropical Storm Alberto bringing rainfall to the area, little relief was brought to the most drought stricken areas over the month of June
- No river flooding occurred during the month
- Area reservoirs remain low; especially west of US HWY 183
 - Canyon Lake has returned to setting daily record low elevation
- Del Rio has yet to receive 20% of their annual rainfall
- Streamflow saw some improvement, but several remain in the below to much below normal range
- No clear indication of drought improvement through the next 3 months

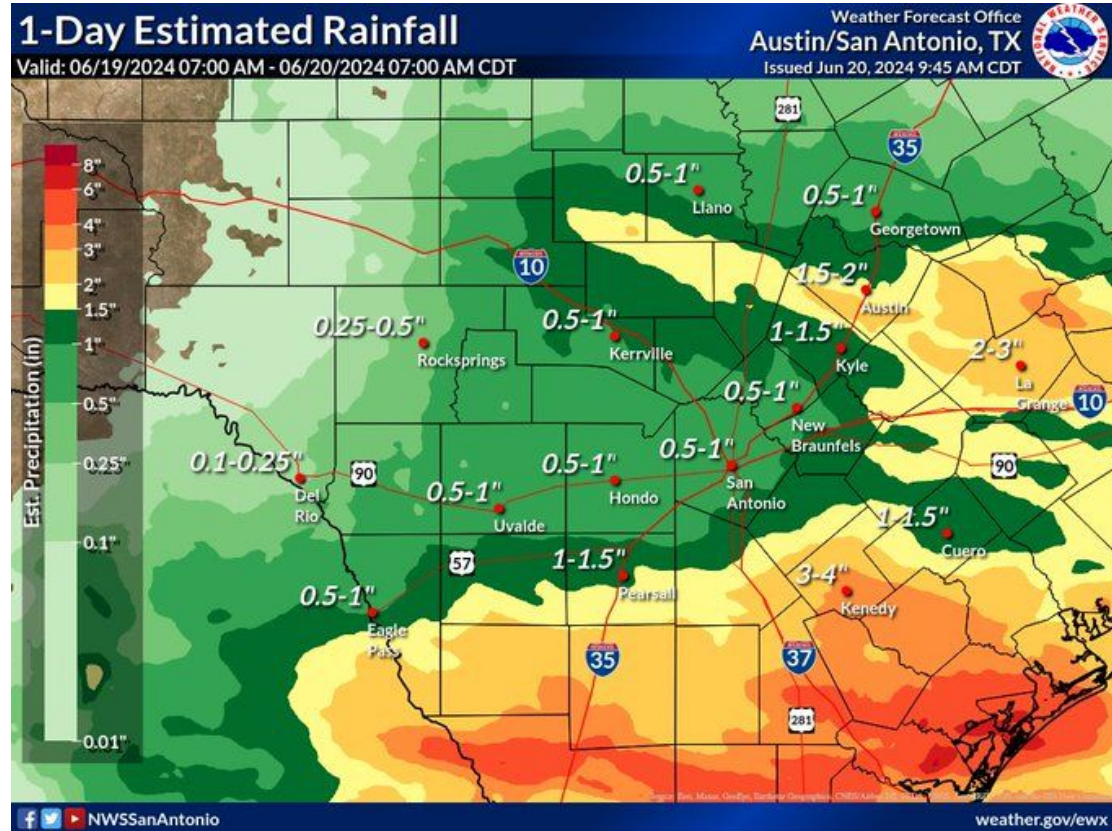




Monthly Summary

Recap Tropical Storm Alberto June 19-20

- Tropical Storm Alberto brought locally heavy rainfall to portions of the area between June 19 and 20. Over 48 hours Alberto brought between 1 and 4 inches of rainfall to the service area.
 - Highest rainfall amounts were focused across the Coastal Plains, Rio Grande Plains, and small portions of the Hill Country and I-35 Corridor.
 - Despite the rainfall, no river flooding or flash flooding occur with only flood advisories being issued.





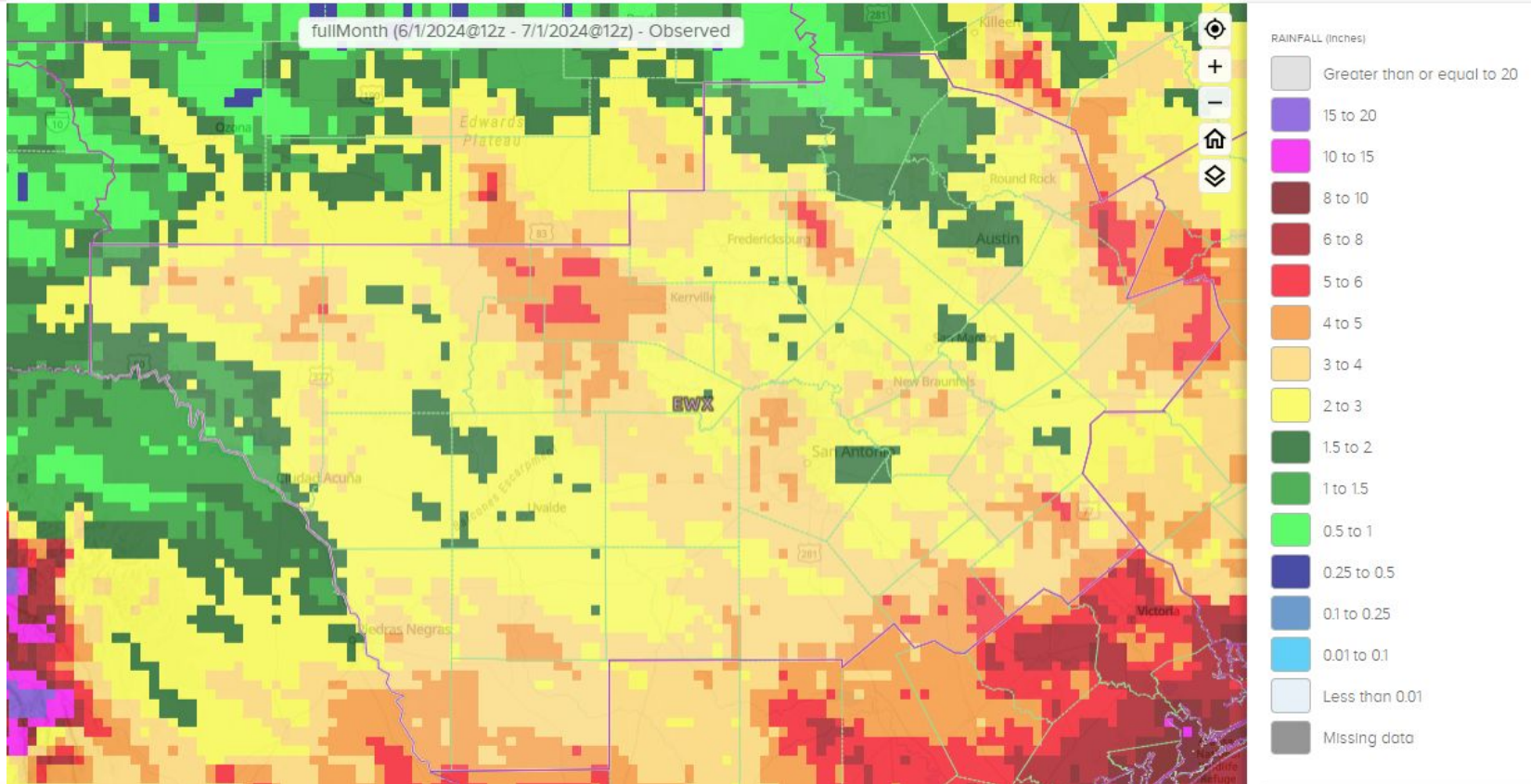
Hydrologic Products Issued for the Month

Product Issued	Number Issued	Additional Comments
River Flood Warning/Area Flood Warning (FLW)	0	
River Flood Statement/Area Flood Advisory (FLS)	8	
Flood Watch (FFA)	1	
Flash Flood Warning (FFW)	1	
Flash Flood Statement (FFS)	1	
Hydrologic Outlook (ESF)	6	AHPS probabilistic forecasts for the Brazos, Colorado, Guadalupe, San Antonio, Pecos, and Nueces Rivers



Monthly Rainfall

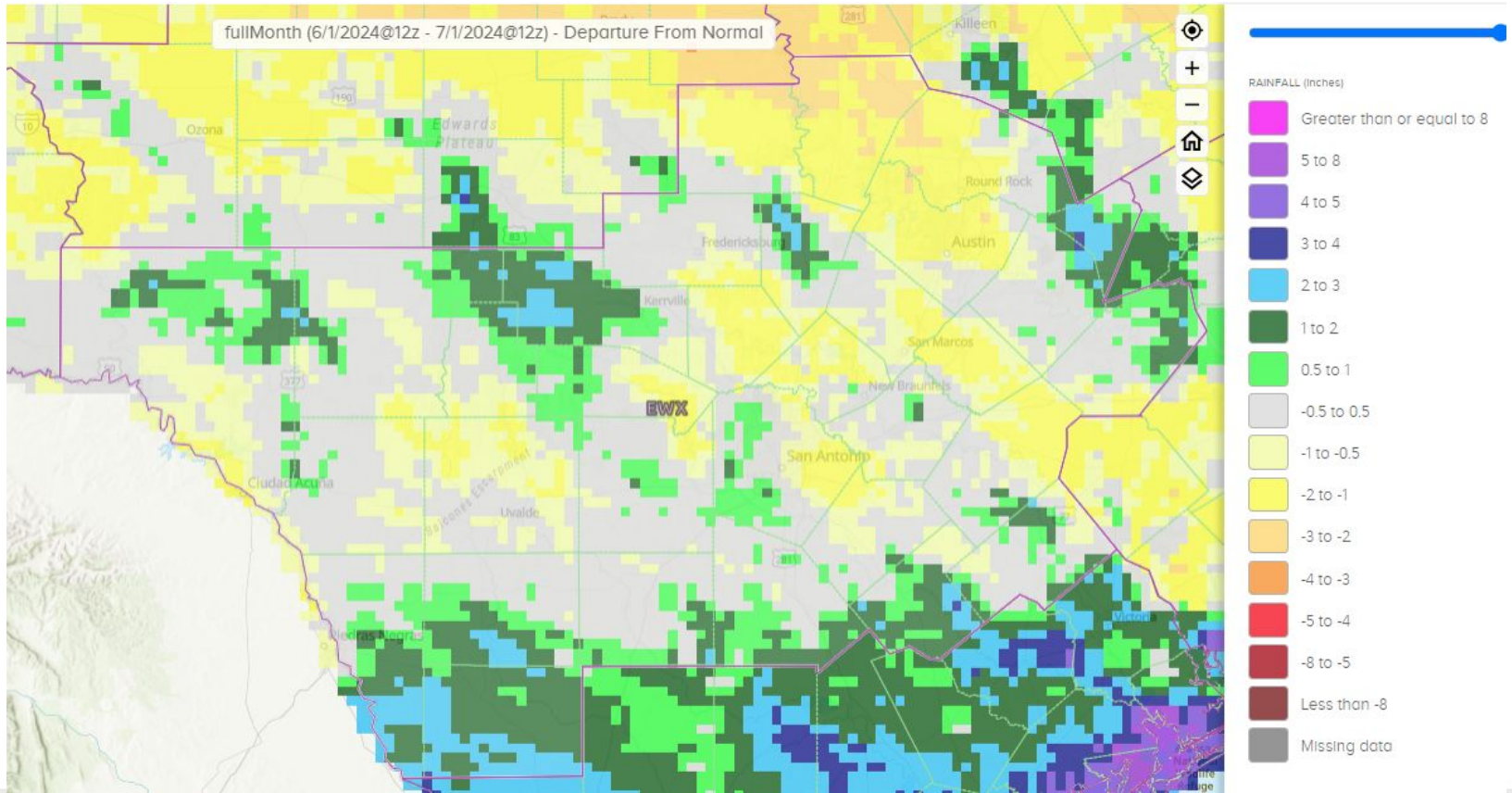
Observed Rainfall (Inches)





Monthly Rainfall

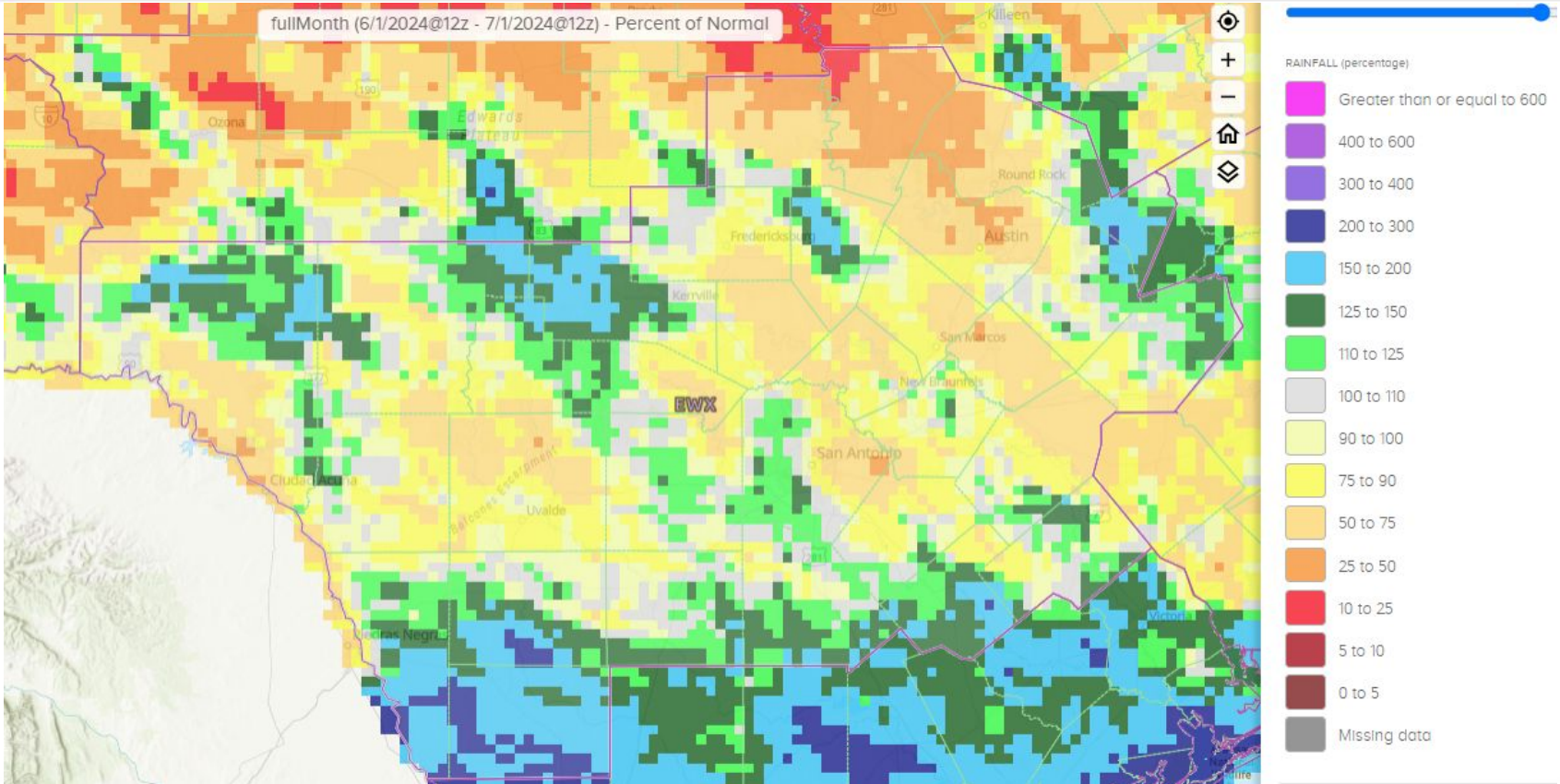
Departure from Normal Rainfall (Inches)





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	2.39”	3.37”	20.12”	18.37”	110%
Austin – Mabry	1.79”	3.68”	19.51”	18.55”	105%
Del Rio	0.78”	2.32”	1.66”	9.30”	18%
San Antonio	2.70”	3.28”	15.20”	16.11”	94%

*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	3.32"	4.01"	34.24"	21.22"	161%
Corpus Christi	7.20"	3.56"	14.01"	13.94"	101%
Laredo	1.28"	2.50"	5.00"	10.06"	50%
San Angelo	0.96"	2.31"	6.19"	10.43"	59%
Victoria	6.48"	4.21"	22.66"	20.07"	113%
Waco	0.93"	3.35"	26.71"	19.67"	136%

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





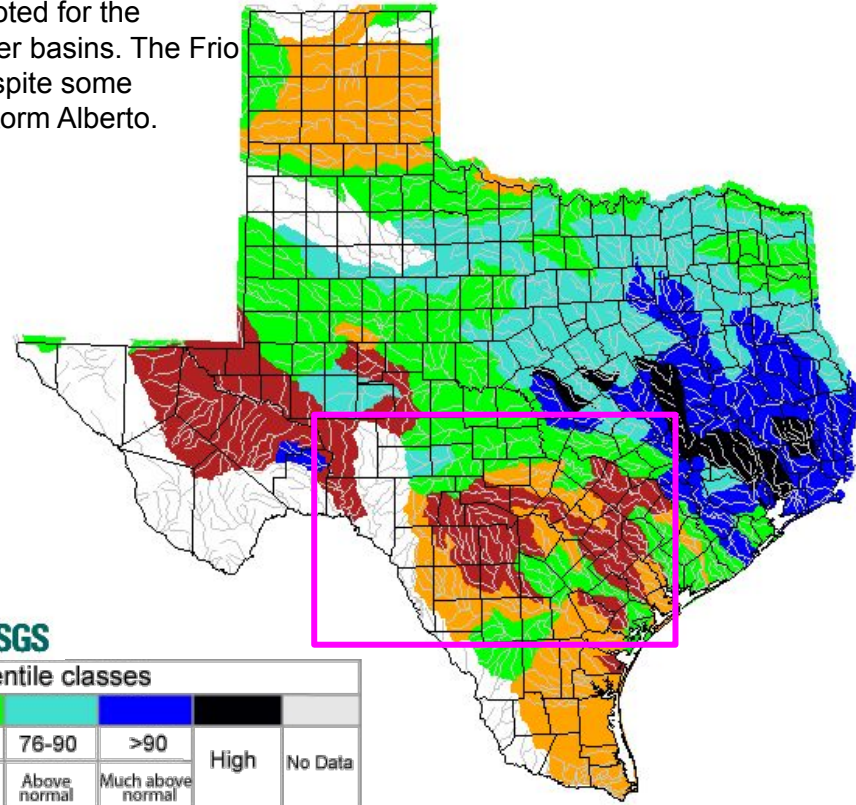
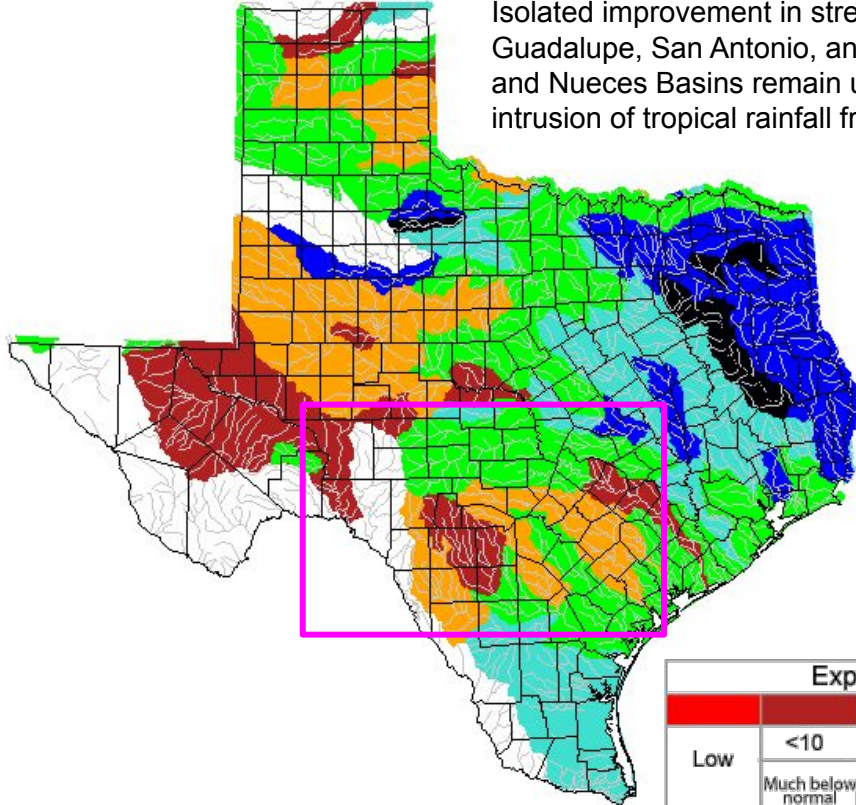
Monthly Historical Streamflow Comparison

Streamflow Comparison

June 2024

May 2024

Isolated improvement in streamflow was noted for the Guadalupe, San Antonio, and Colorado river basins. The Frio and Nueces Basins remain unchanged despite some intrusion of tropical rainfall from Tropical Storm Alberto.



Explanation - Percentile classes

	<10	10-24	25-75	76-90	>90			
Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High	No Data	





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	1008.75	-0.50
Lake Travis	681	634.32	-0.39
Canyon Lake	909	885.01 New Record Low Elevation	-0.86
Medina Lake	1064.2	970.51	-0.99
Lake Amistad	1117	1047.17	-2.28



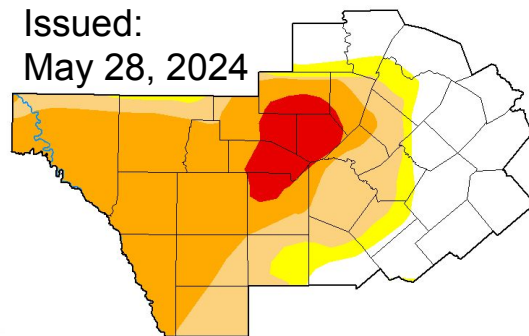
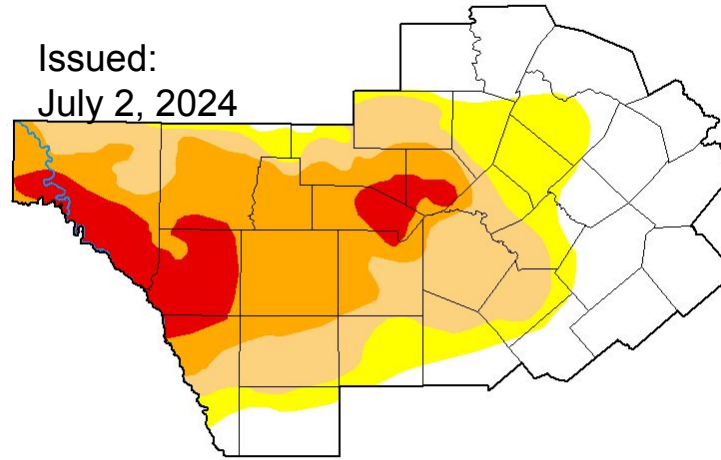


Drought Conditions

Monthly Drought Monitor Comparison

June saw a mixed bag when it comes to drought conditions. Improvement was noted on the eastern and northern portions of the area while drought worsened across the west; particularly along the Rio Grande.

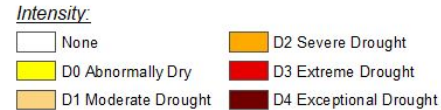
- D3 drought encompasses 9.7% of the CWA
- Drought doesn't affect 48% of the CWA



July 2, 2024
(Released Wednesday, Jul. 3, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	33.59	14.43	20.90	21.36	9.72	0.00
Last Week 06-25-2024	38.69	9.92	20.32	21.36	9.72	0.00
3 Months Ago 04-02-2024	21.90	19.03	32.44	19.46	7.18	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 07-04-2023	4.43	51.99	17.97	15.71	7.74	2.16





One Month Outlook

The most recent Monthly Outlook

- The Precipitation Outlook for the month of July shows equal chances for above, below, or near normal rainfall for much of the service area
 - A portion of the Hill Country, and I-35 corridor lean slightly below normal precipitation chances
- The Temperature Outlooks shows above normal temperatures for the month of July

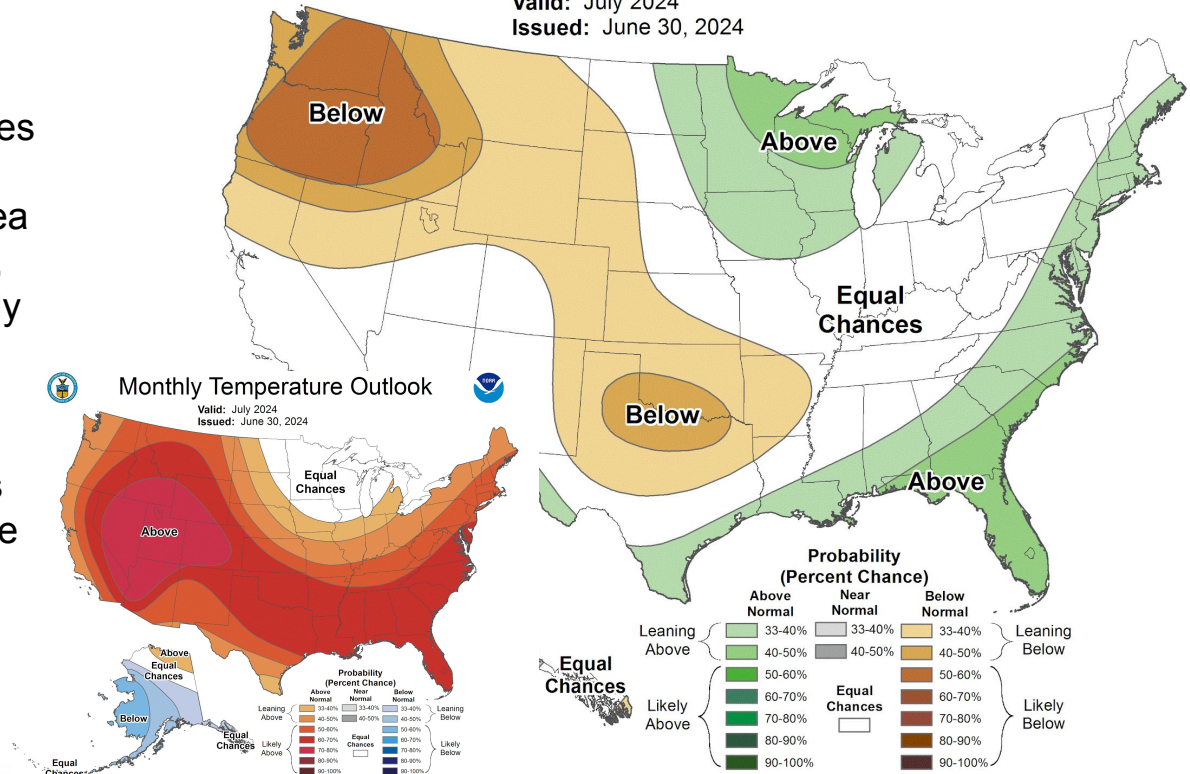
[Click for latest graphics](#)



Monthly Precipitation Outlook



Valid: July 2024
Issued: June 30, 2024





Three Month Outlook

Looking at the Seasonal Outlooks

- The Precipitation Outlook shows equal chances of above, below, or near normal precipitation for the western half of the service area however:
 - The eastern half of the service area leans slightly towards above normal precipitation chances
- The Temperature Outlook shows above normal temperatures across the service area

[Click for latest graphics](#)

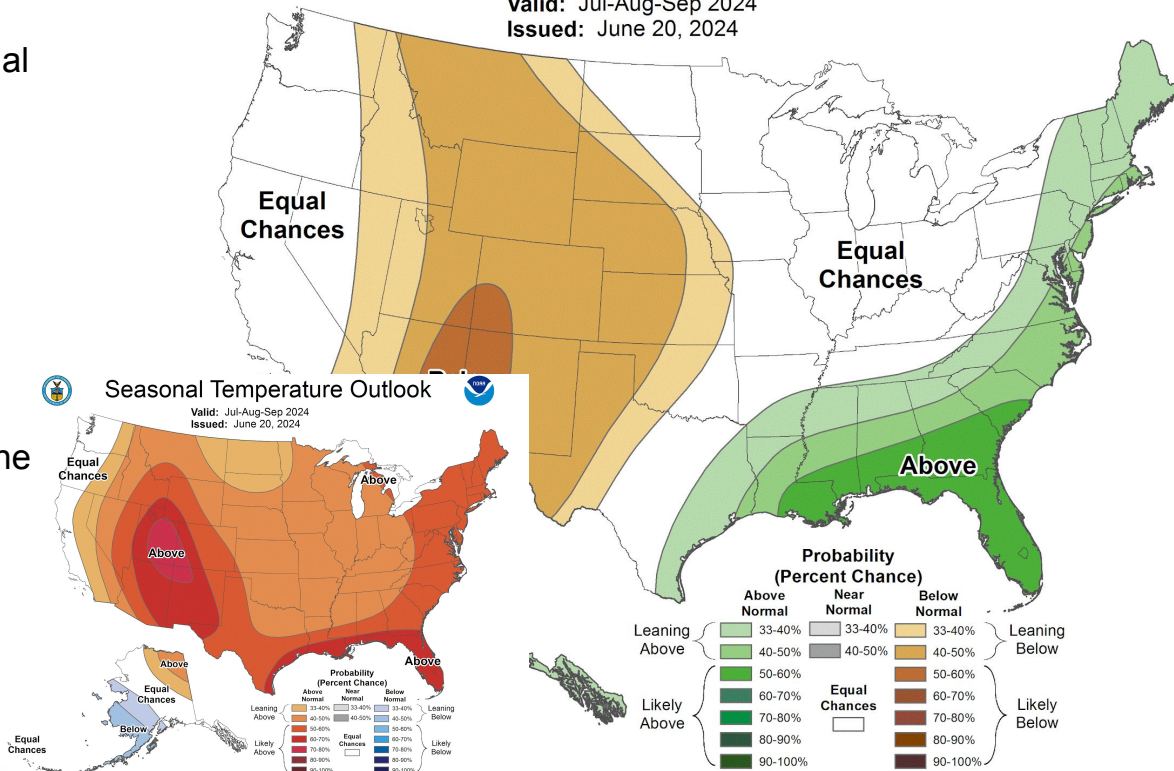


Seasonal Precipitation Outlook



Valid: Jul-Aug-Sep 2024

Issued: June 20, 2024





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/>