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

NWS Austin/San Antonio, TX

Prepared by: Chris Morris

June 15, 2024

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

Monthly Summary

Key Messages

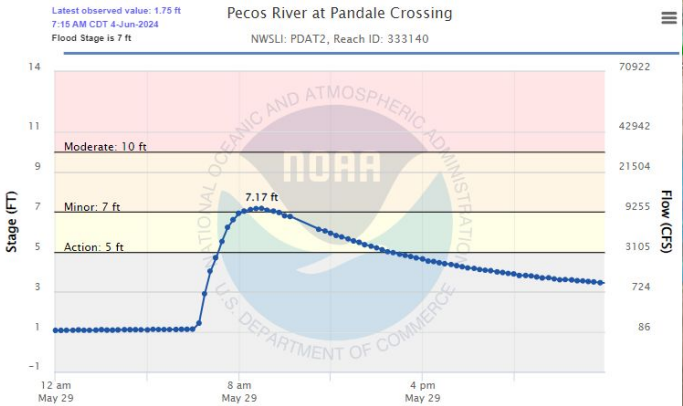
- Multiple rounds of May thunderstorms brought some much needed rainfall to portions of the area
  - The Colorado, Brazos, and Guadalupe saw the majority of the monthly rainfall
  - The Nueces and Rio Grande missed out
- One forecast point reached minor flood this month however; the rainfall which prompted the rise fell north of the service area
- The Austin climate sites built on their yearly surplus of rainfall, Del Rio saw it's deficit grow, and a lack of rainfall caused San Antonio to drop below 100% for a yearly rainfall total
- Drought conditions saw improvement across portions of the Hill Country and I-35 corridor while status quo dominated the remainder of the service area
- Unfortunately, monthly and seasonal precipitation outlooks don't provide much hope for improvement for the areas needing the rainfall the most

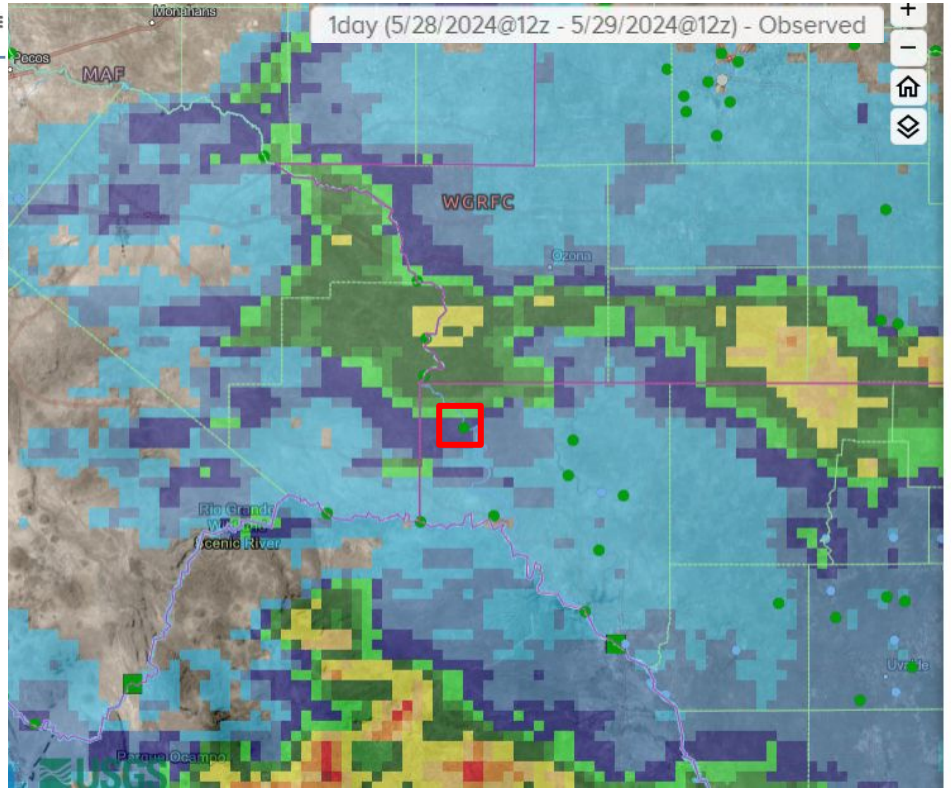
Hydrologic Products Issued for the Month

Product Issued	Number Issued	Additional Comments
River Flood Warning/Area Flood Warning (FLW)	1	
River Flood Statement/Area Flood Advisory (FLS)	26	
Flood Watch (FFA)	0	
Flash Flood Warning (FFW)	2	
Flash Flood Statement (FFS)	5	
Hydrologic Outlook (ESF)	6	AHPS probabilistic forecasts for the Brazos, Colorado, Guadalupe, San Antonio, Pecos, and Nueces Rivers

Flood Stage Report

River Flood Summary (Forecast Points)





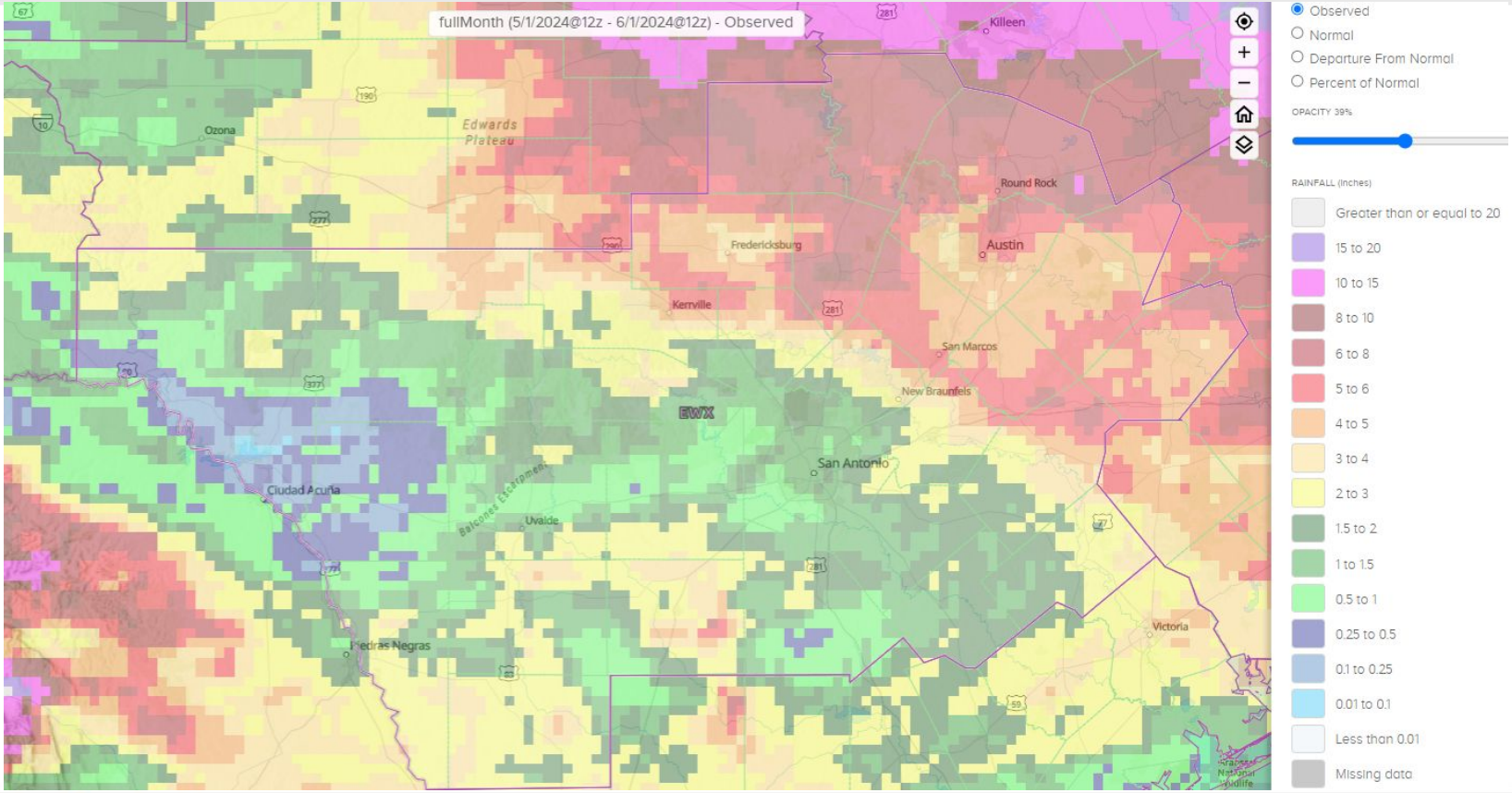
Flood Summary:

Pecos River at Pandale Crossing (PDAT2)

- Max Flood Category: Minor
- Reached Flood: 5/29 at 8:00 am
- Crest: 7.17ft on 5/29 at 9:00 am
- Dropped below flood: 5/29 at 9:45 am

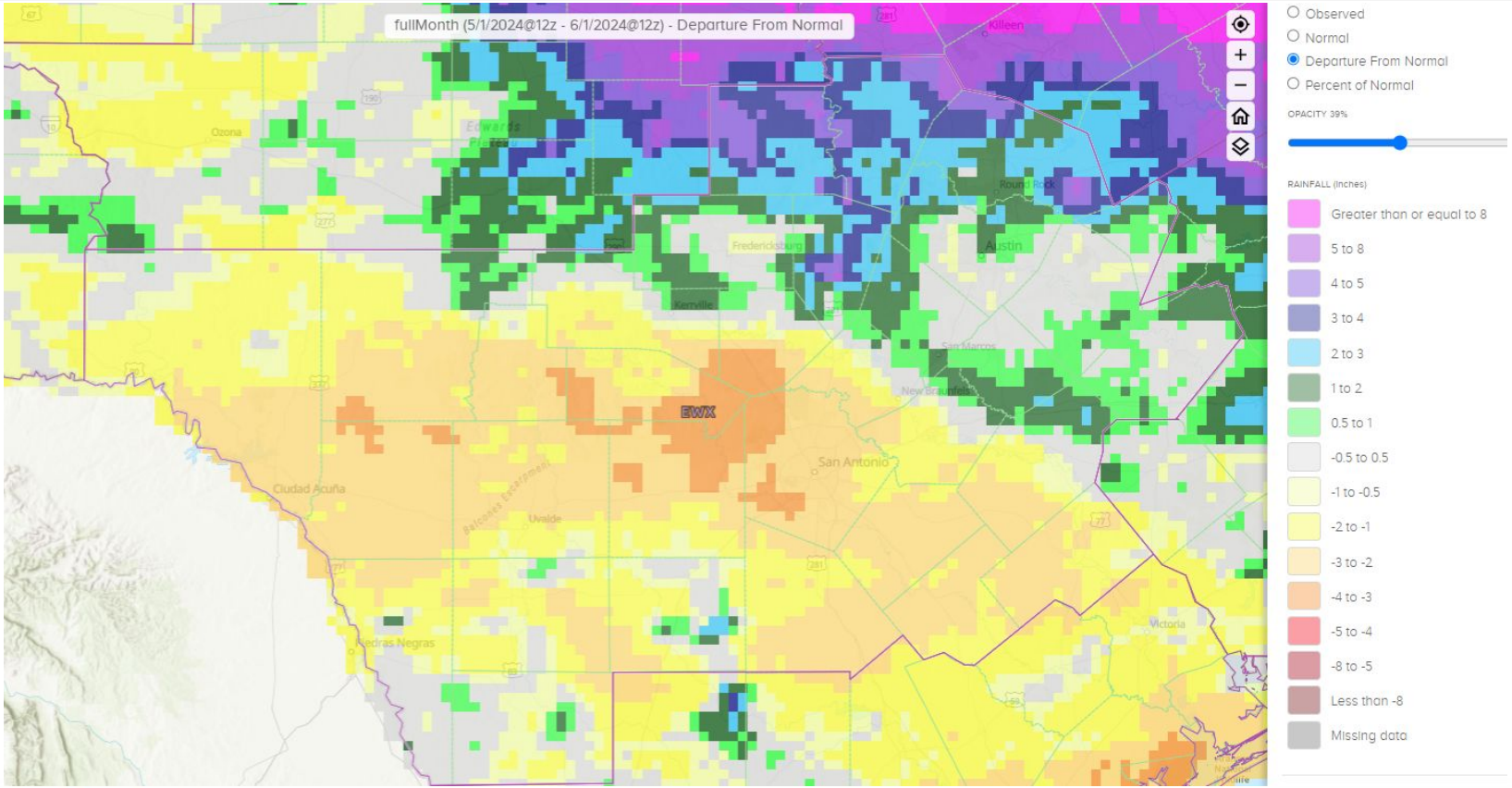
May 2024 Rainfall

Observed Rainfall (Inches)



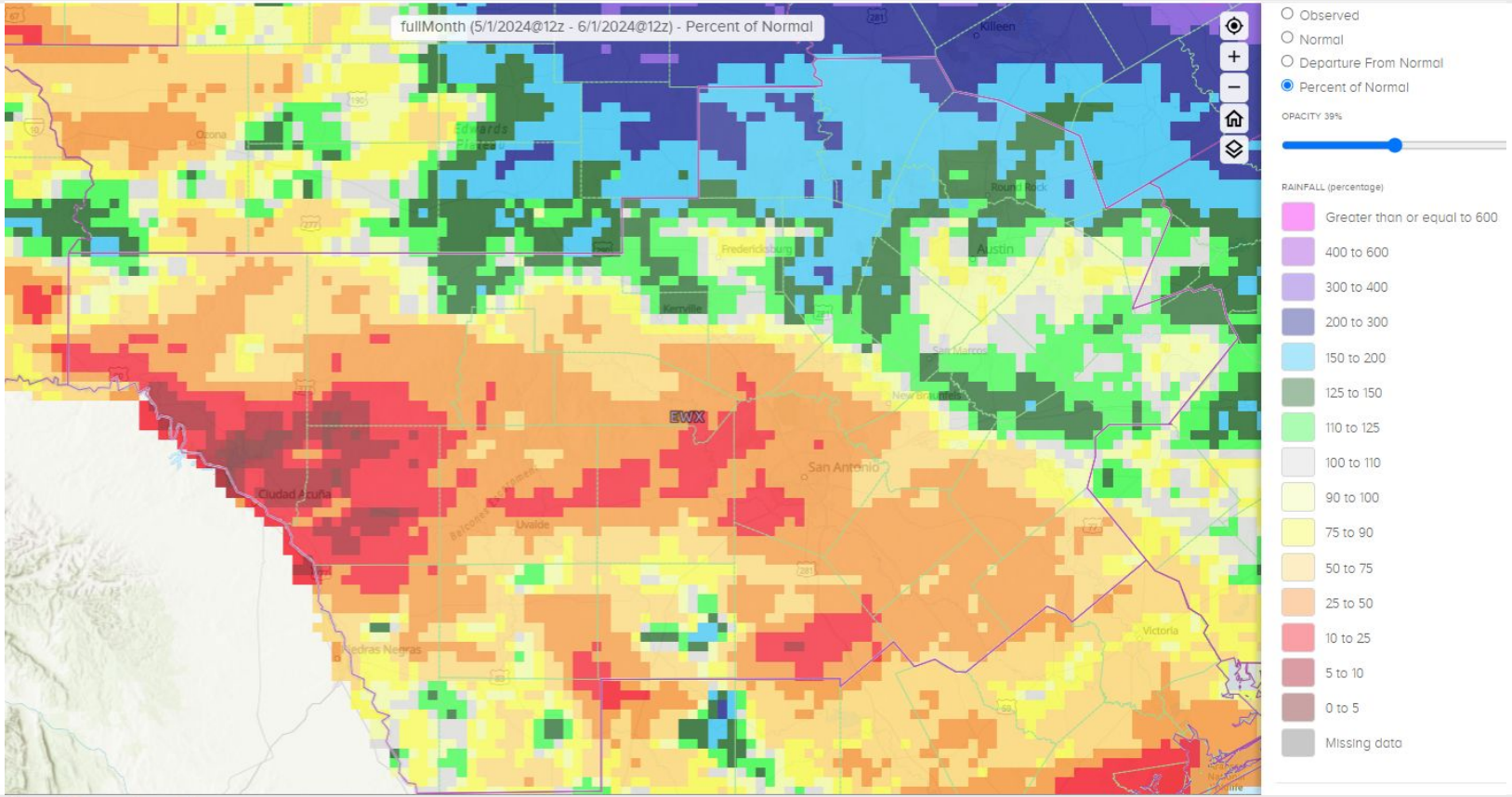
May 2024 Rainfall

Departure from Normal Rainfall (Inches)



May 2024 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	3.91”	5.00”	17.73”	15.00”	118%
Austin – Mabry	6.20”	5.04”	17.72”	14.87”	119%
Del Rio	0.06”	3.06”	0.88”	6.98”	13%
San Antonio	0.96”	4.40”	12.50”	12.83”	97%

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

Climate Station Rainfall Data For the Month

Nearby Offices:

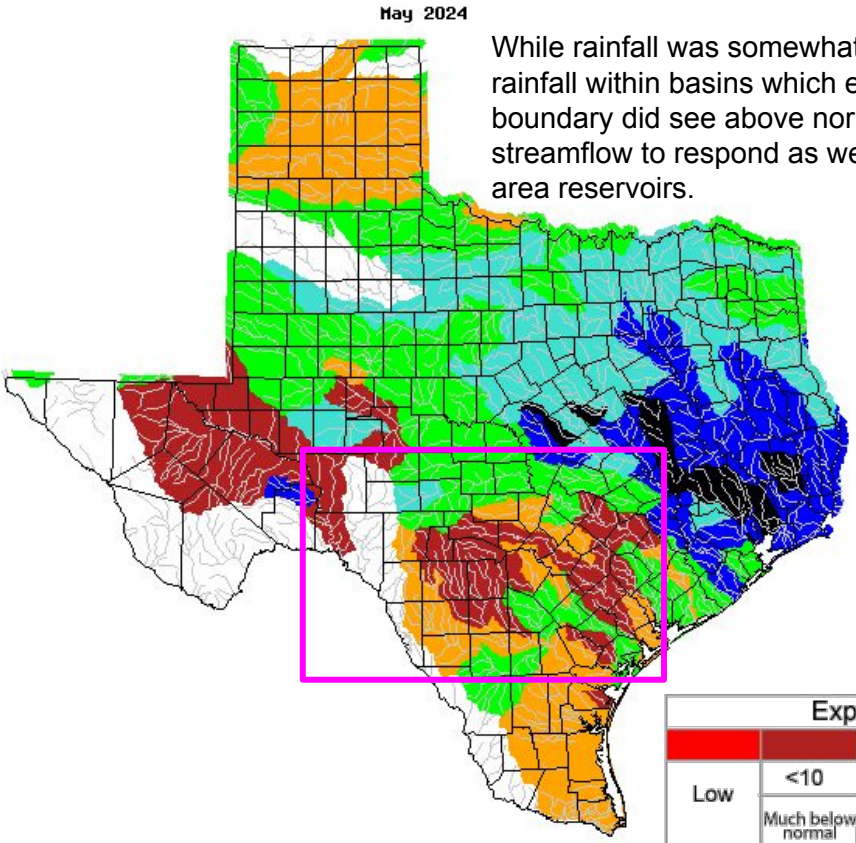
	Monthly Rainfall	Monthly Average	2024 Rainfall Through Month	1991-2020 Normal Through Month	2024 Percent of Normal
College Station	9.10”	4.60”	30.92”	17.21”	180%
Corpus Christi	1.02”	3.38”	6.81”	10.38”	66%
Laredo	2.50”	2.76”	3.72”	7.56”	49%
San Angelo	2.34”	3.05”	5.23”	8.12”	64%
Victoria	2.68”	5.23”	16.18”	15.86”	102%
Waco	15.28”	4.44”	25.78”	16.32”	158%

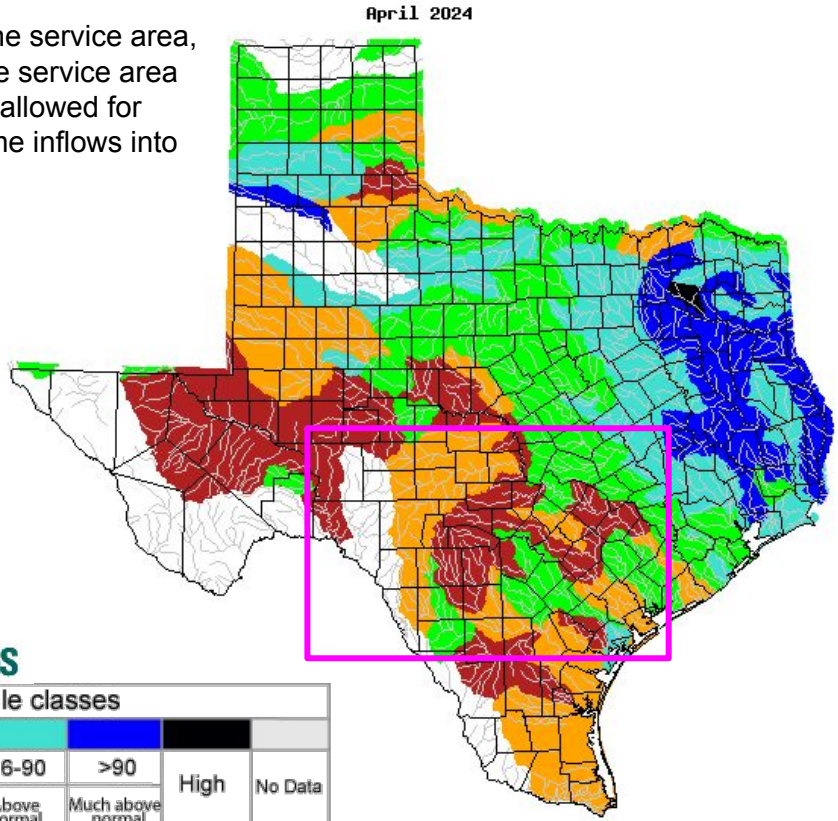
*The monthly averages and normal values are for the period 1991-2020

Monthly Historical Streamflow Comparison

Streamflow Comparison

While rainfall was somewhat limited across the service area, rainfall within basins which extend beyond the service area boundary did see above normal rainfall. This allowed for streamflow to respond as well as provide some inflows into area reservoirs.





USGS

Explanation - Percentile classes

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

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	1009.25	13.79
Lake Travis	681	634.71	4.42
Canyon Lake	909	885.87	-0.71
Medina Lake	1064.2	971.50	-1.05
Lake Amistad	1117	1049.45	-1.29

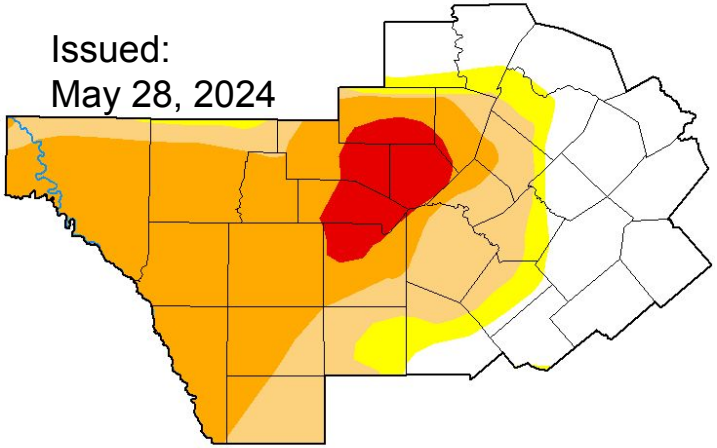
Drought Conditions

Monthly Drought Monitor Comparison

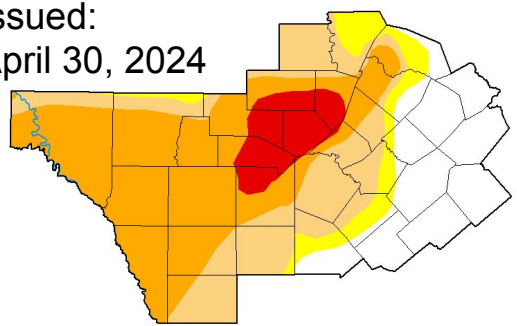
Slight improvement in drought conditions were observed across portions of the Hill Country and I-35 corridor over the month of May while conditions across the remainder of the service area remained mostly unchanged

- D3 drought encompasses 6.6% of the CWA
- Drought doesn't affect 37% of the CWA

Issued:
May 28, 2024



Issued:
April 30, 2024



May 28, 2024

(Released Thursday, May. 30, 2024)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	29.47	7.64	19.57	36.69	6.63	0.00
Last Week *05-21-2024*	29.51	7.60	19.57	36.69	6.63	0.00
3 Months Ago *02-27-2024*	22.20	17.98	40.02	12.62	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 *05-30-2023*	25.14	28.60	24.10	12.26	7.74	2.16

Intensity:

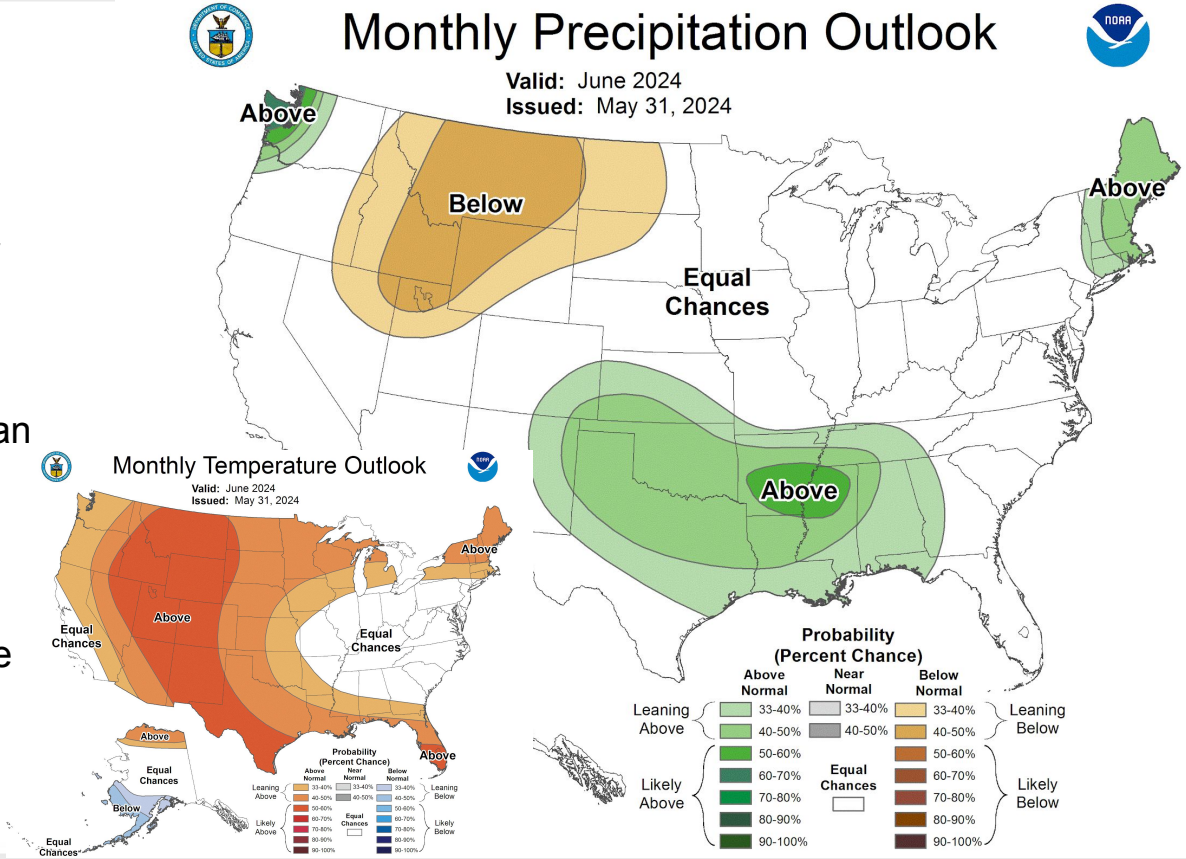
- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

One Month Outlook

The most recent Monthly Outlook

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

[Click for latest graphics]

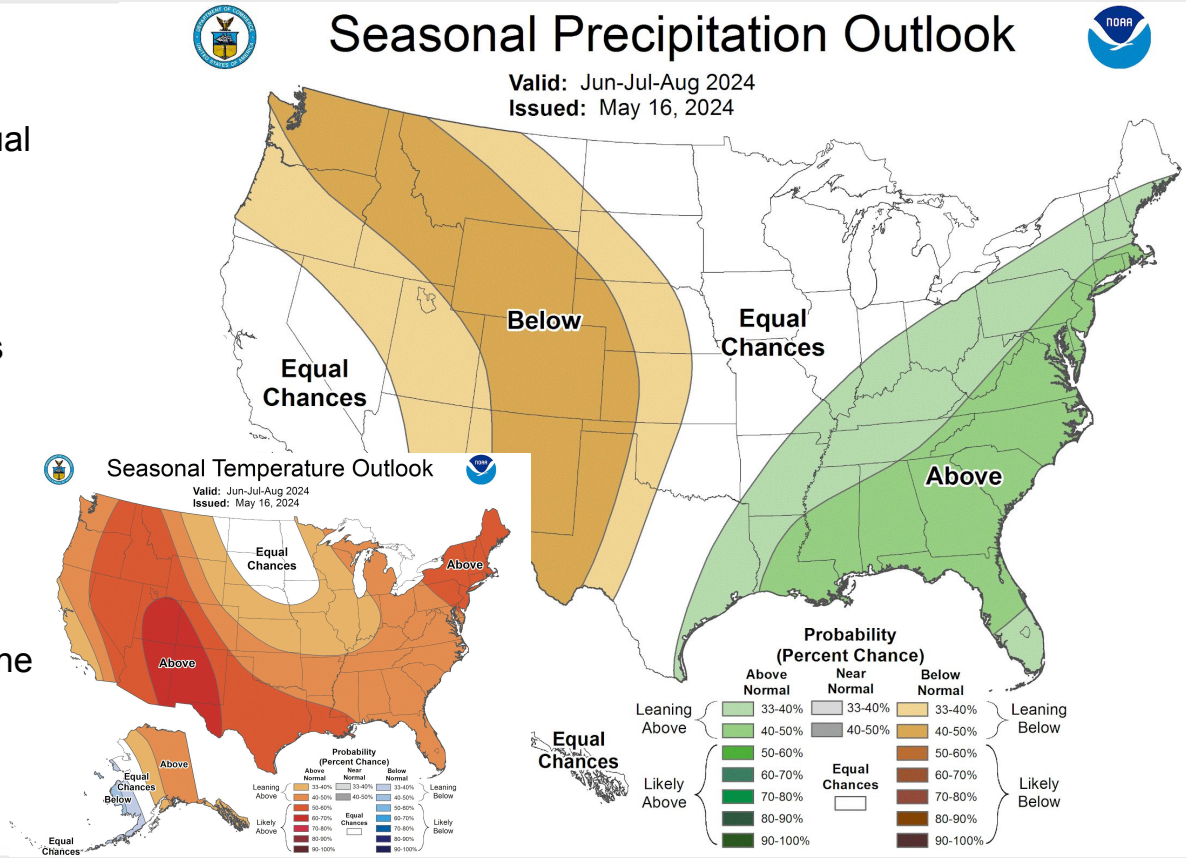


Three Month Outlook

Looking at the Seasonal Outlooks

- The Precipitation Outlook shows equal chances of above, below, or near normal precipitation for much of the service area however:
  - Portions of the southern Edwards Plateau lean towards below normal precipitation chances
  - Portions of the Coastal Plains lean towards above normal precipitation chances
- The Temperature Outlook shows above normal temperatures 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/