

April 2023 Monthly Hydrologic Report (E5)

NWS Austin/San Antonio, TX

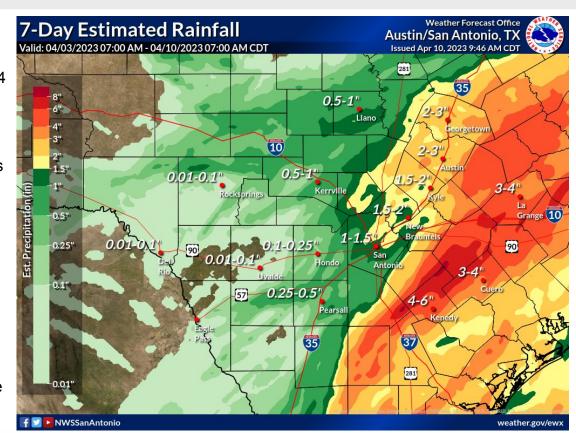
Prepared by: Chris Morris May 9, 2023

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



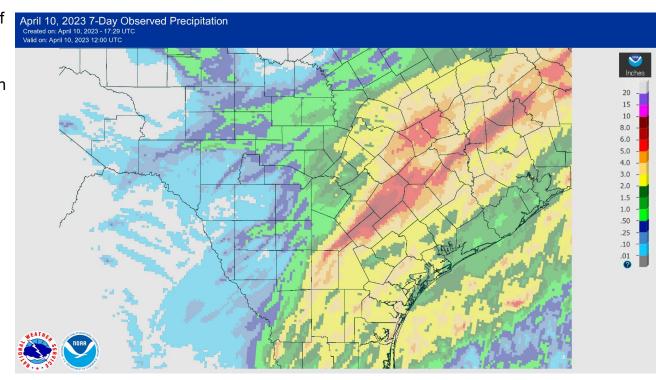


- A stalled cold front brought overrunning precipitation from the 6th through the 8th.
 Precipitation amounts ranged from 1 inch to 4 inches across the I-35 corridor, Coastal
 Plains and portions of the Hill Country.
- A higher swath of 4 inches to 6 inches across portions of Atascosa, Karnes, Gonzales, Wilson, and DeWitt counties.
- This precipitation resulted in moderate flooding on the San Antonio River and Sandies Creek near Westhoff.
- The Atascosa County Sheriff's office also reported that FM 791 was closed and impassable at the intersection of CR 445 due to water over the roadway.



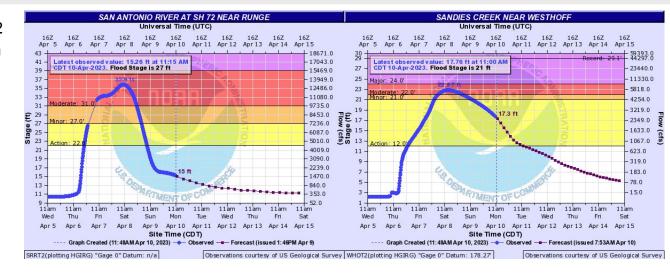


- Cocorahs showed a max precip of 7.28 inches over the duration of the event. <u>Map link</u>
- A PNS with additional precipitation amounts over 72 hours as of 4/8/2023 at 10:21am is available here.

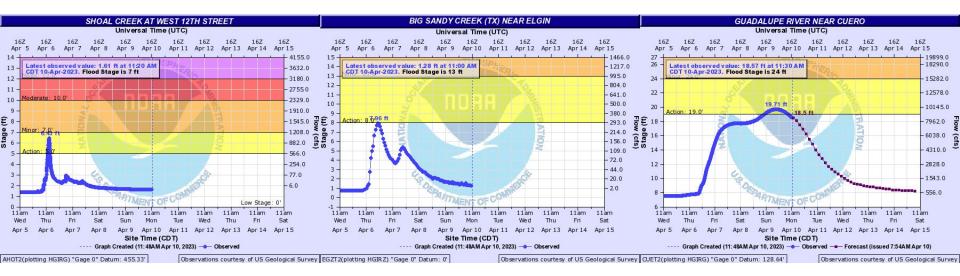




- The San Antonio River at SH 72 near Runge crested at 35.9ft on 4/8/2023 at 15:30 UTC.
- The Sandies Creek near
 Westhoff crested at 22.87 ft on 4/8/2023 at 19:30 UTC.







While these locations are not forecast points, they are notable rises from this event.





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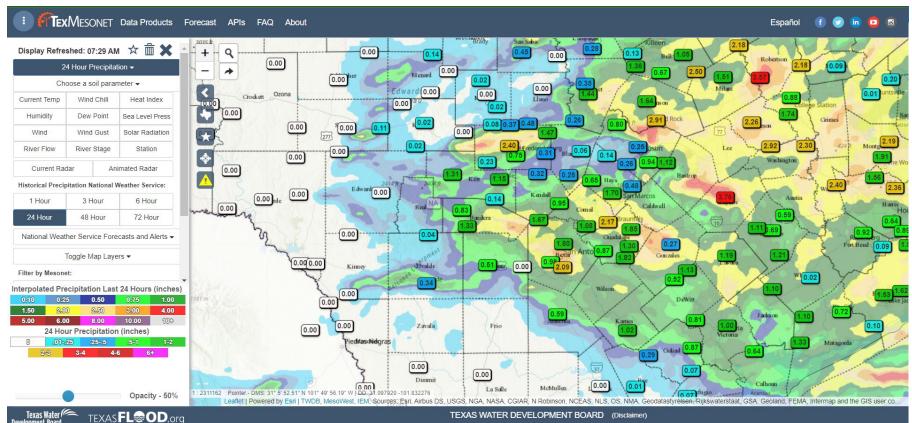
Monthly Summary Recap

- A slow moving cold front and associated pre-frontal disturbance initiated scattered severe convection during the afternoon and overnight hours of the 20th.
- One slow moving thunderstorm brought swaths of 2-4 inches of rain across portions of Bandera and Bexar counties. The intensity of the rain resulted in rapid responses on area rivers, and urban flash flooding.
- Thunderstorms which moved parallel to the cold front brought a wide swath of rainfall across portions of the Hill Country and I-35 corridor.
- While no forecast points reached minor flood stage, a few data points did reach into minor and moderate flood.
- Flooding in the Austin area resulted in approximately 50 water rescues with 21 of those at US HWY 183 and Duval Road in Austin.



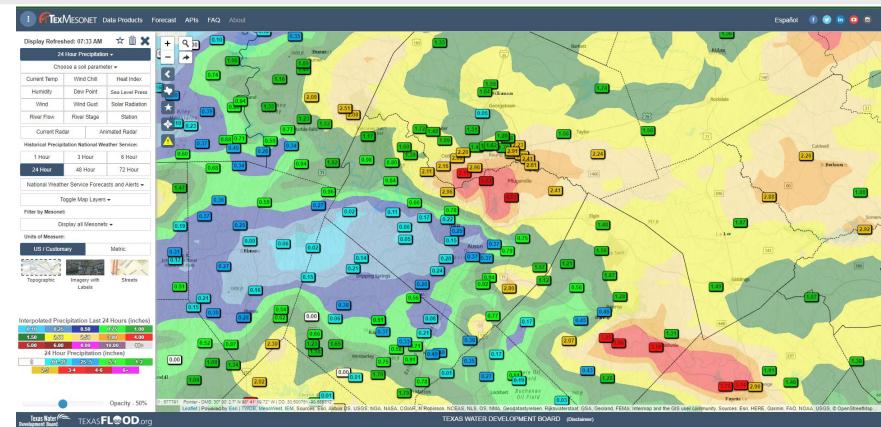






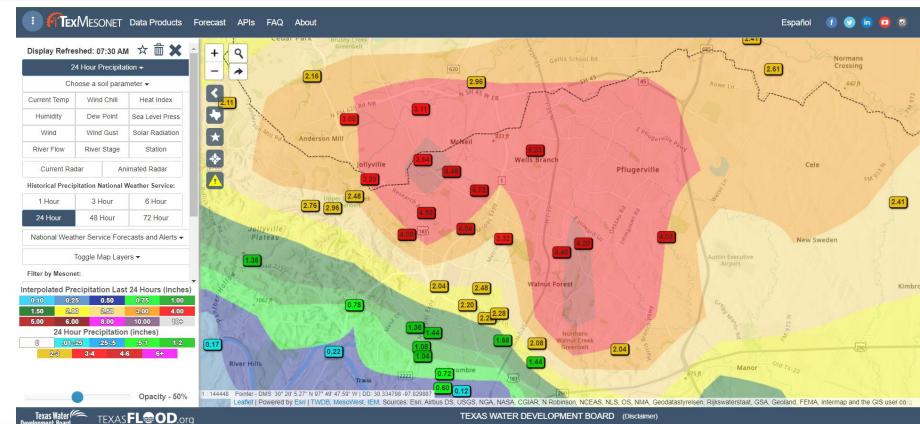


Monthly Summary



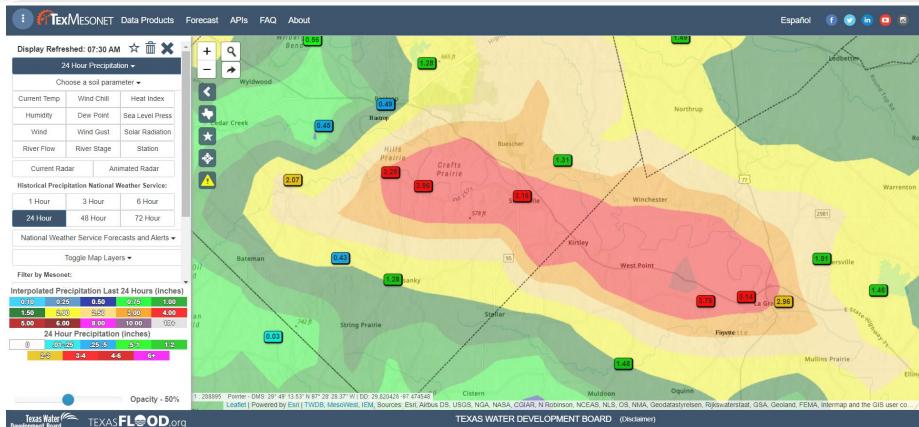






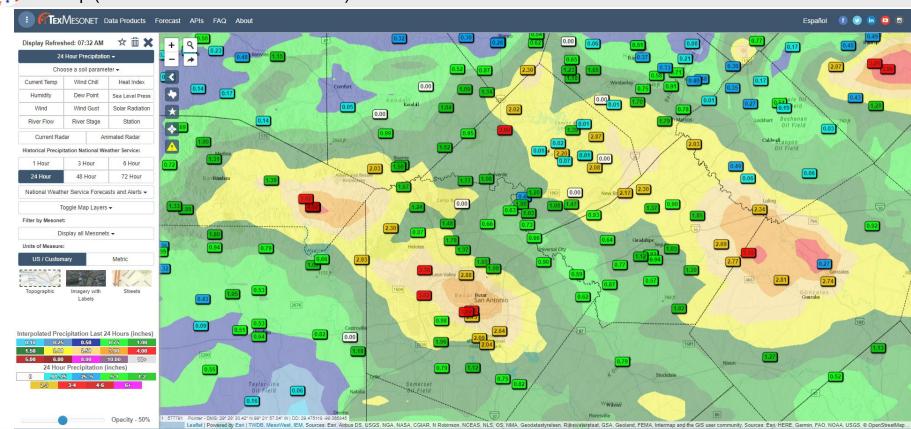




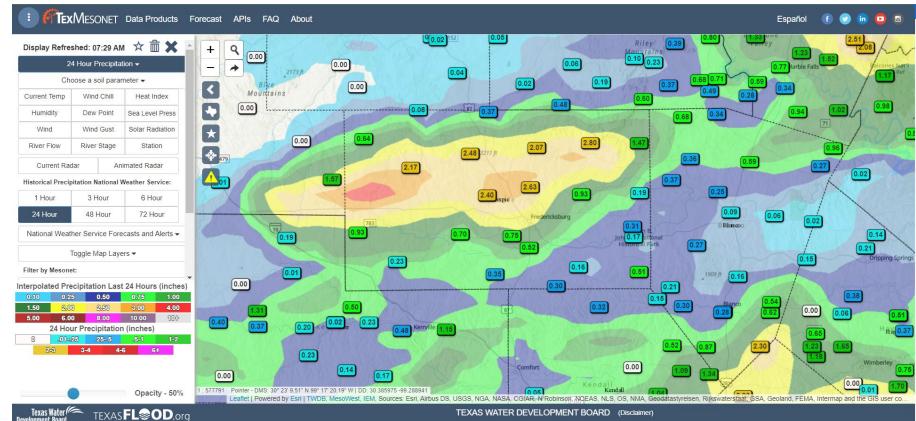








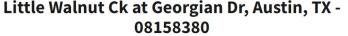
Monthly Summary Recan (Point amounts from 20th re





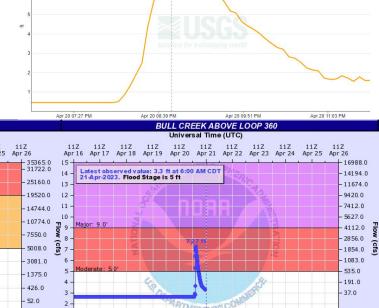
Monthly Summary Recap

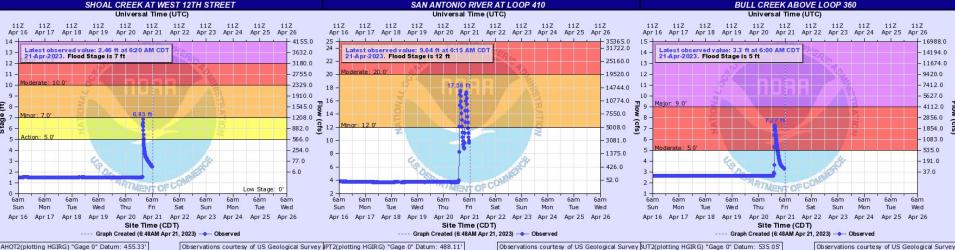
While there isn't a forecast point on the Little Walnut Creek in Austin, a rapid rise resulted in <u>flooded homes</u> along the creek. There is a site just downstream of these flooded homes. The river reached 7.12ft.



April 20, 2023 - April 20, 2023 Gage height, ft 1

7.12 ft - Apr 20, 2023 08:50:00 PM CD



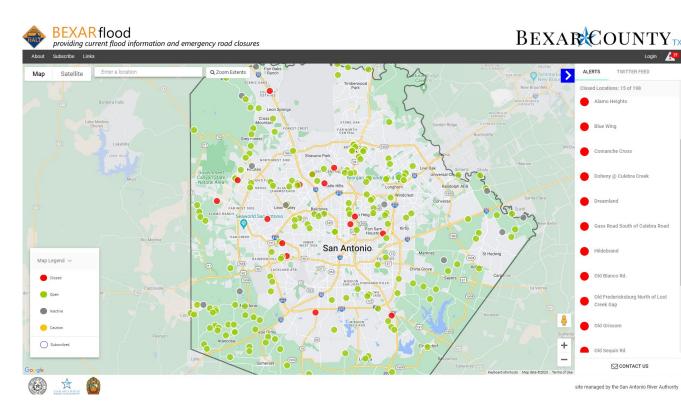






Reports of flooding from the 21st:

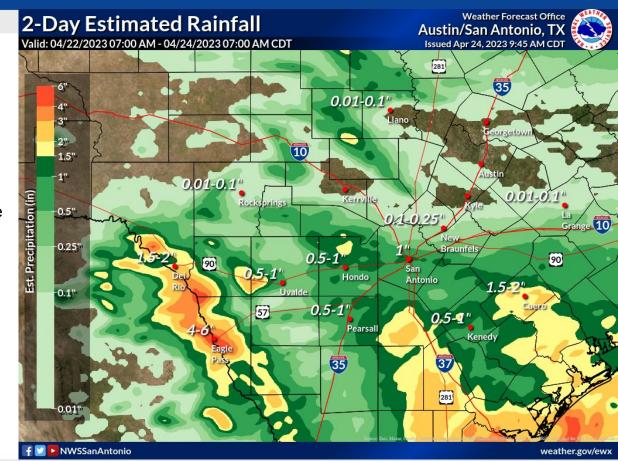
- LSR Summary
- Riverwalk flooding video
- Kens5 roadway flooding.
- Flooding <u>story</u> from KENS5







- A cluster of thunderstorms moved across the HSA from Saturday, April 23-24, 2023 evening through Sunday midday.
- While significant rises were not observed, there was some smaller streams that did flood particularly in the <u>Eagle Pass area</u>.

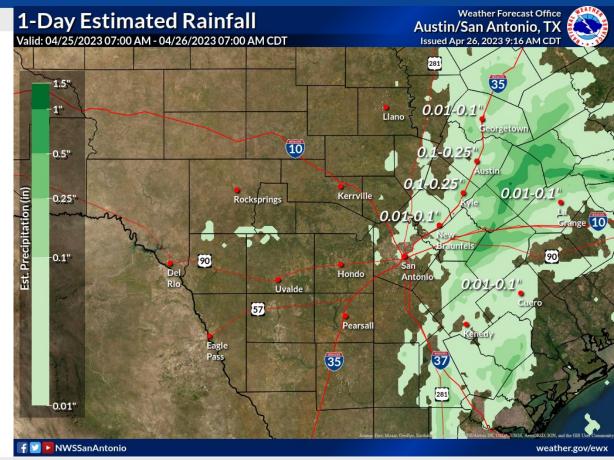




National Weather Service Austin/San Antonio, TX



- A series of upper level shortwaves and a stationary front sparked thunderstorms during the afternoon and evening hours of the 25th.
- These storms brought between one half inch and one inch from Wilson to Lee counties.
- Despite recent rainfall, flooding was isolated and only minor rises were observed on streams, creeks, and rivers.

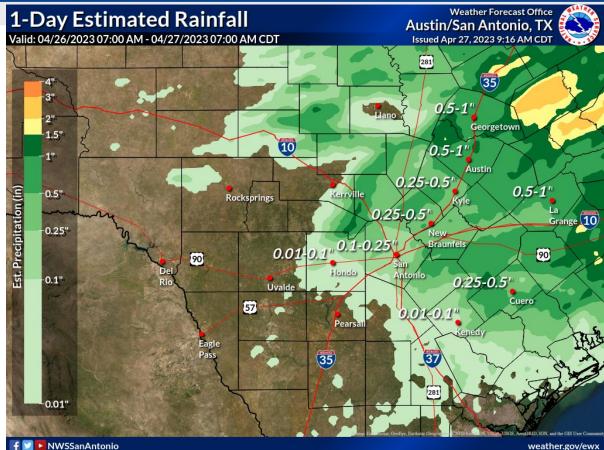




National Weather Service Austin/San Antonio, TX



- A slow moving cold front dropped across south central Texas during the overnight hours of the 26th.
- This line of storms brought localized areas of one and one half to two inches of rainfall to portions of the Hill Country and I-35 corridor.
- While this precipitation did result in brief rises on area waterways, no flooding was observed.







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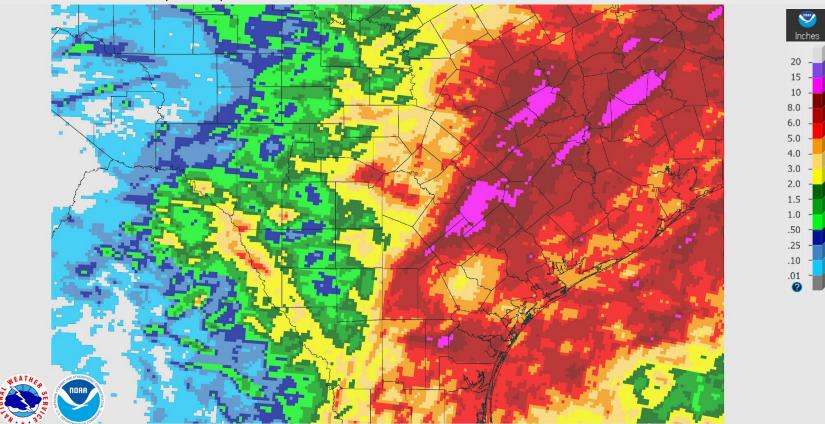


National Weather Service Austin/San Antonio, TX

WEATHER SERVICE

April 2023 Monthly Rainfall

Observed Rainfall (Inches)

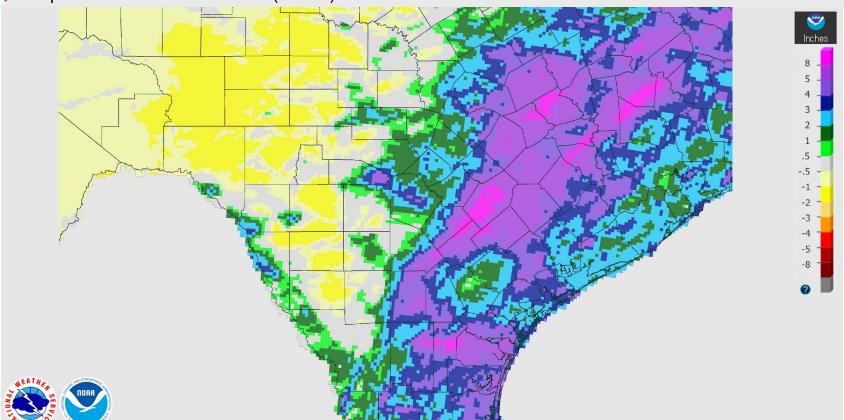




WEATHER SERVICE

April 2023 Monthly Rainfall

Departure from Normal Rainfall (Inches)

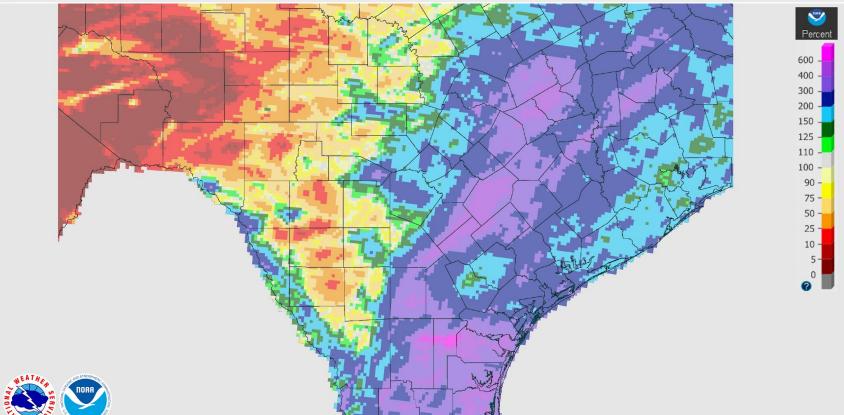






April 2023 Monthly Rainfall

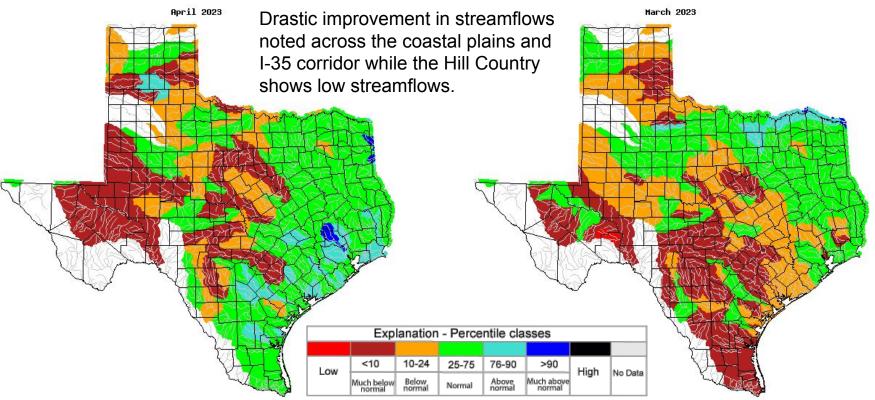
Percent of Normal Rainfall (%)





April 2023 - Historical Streamflow Comparison

Streamflow Comparison







Climate Station Rainfall Data For the Month

Austin/San Antonio Area

	Monthly Rainfall	Monthly Average	2023 Rainfall Through Month	1991-2020 Normal Through Month	Percent of Normal
Austin – Bergstrom	5.06"	2.39"	10.00"	10.00"	100%
Austin – Mabry	4.18"	2.42"	8.34"	9.83"	85%
Del Rio	1.18"	1.50"	3.24"	3.92"	83%
San Antonio	4.75"	2.42"	7.92"	8.43"	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	2023 Rainfall Through Month	1991-2020 Normal Through Month	Percent of Normal
College Station	8.94"	2.87"	15.28"	12.61"	121%
Corpus Christi	7.49"	2.04"	9.12"	7.00"	130%
Laredo	3.69"	1.47"	4.43"	4.80"	92%
San Angelo	0.20"	1.47"	2.23"	5.07"	44%
Victoria	6.16"	3.01"	14.23"	10.63"	134%
Waco	3.90"	3.33"	10.00"	11.88"	84%

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



Reservoir	Conservation Elevation (feet)	End of Month Elevation (feet)	Monthly Change (Feet)
Lake Buchanan	1020	1001.18	-0.22
Lake Travis	681	637.90	-0.57
Canyon Lake	909	896.99	-0.12
Medina Lake	1064.2	981.58	-0.66
Lake Amistad	1117	1075.56	-10.30





Hydrologic Products Issued for the Month

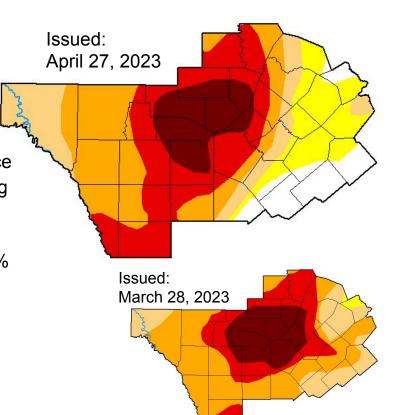
Product Issued	Number Issued	Additional Comments
River Flood Warning (FLW)	4	
River Flood Statement/Area Flood Advisory (FLS)	59	
Flash Flood Watch (FFA)	0	
Flash Flood Warning (FFW)	11	
Flash Flood Statement (FFS)	16	
Hydrologic Outlook (ESF)	6	AHPS probabilistic forecasts for the Brazos, Colorado, Guadalupe, San Antonio, Pecos, and Nueces Rivers



The well above normal precipitation across the coastal Plains allowed for significant improvement in drought categories over the month of april.

However, below to near normal rainfall across the western portion of the service area resulted in status quo to worsening drought conditions.

- D3/D4 drought encompasses 38% of the CWA
- Drought doesn't affect 9% of the CWA

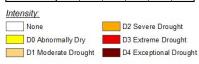


April 25, 2023

(Released Thursday, Apr. 27, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	9.24	13.48	13.49	25.56	26.18	12.05
Last Week 04-18-2023	7.74	12.61	11.06	25.25	26.55	16.79
3 Month's Ago 01-24-2023	6.25	11.14	33.87	28.43	10.16	10.15
Start of Calendar Year 01-03-2023	6.21	14.33	40.02	19.13	11.66	8.65
Start of Water Year 09-27-2022	1.55	13.06	33.69	29.92	16.79	4.98
One Year Ago 04-26-2022	2.80	6.98	6.99	23.13	37.17	22.94



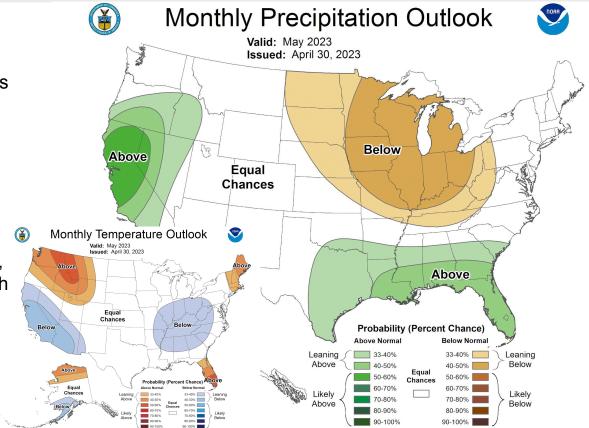




Looking at the Monthly Outlook for May

- The Precipitation Outlook continues to lean towards above normal chances for the month of May.
 Portions of the Edwards Plateau show equal chances for above, below, and near normal chances.
- The Temperature Outlook has shifted to equal chances for above, below, or near normal for the month of May.

Click for latest graphics



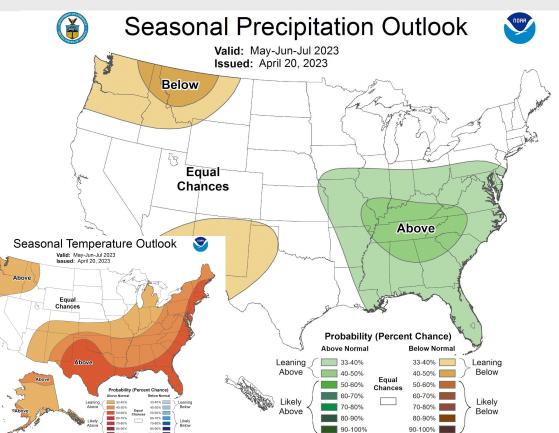




Looking at the Seasonal Outlooks

- 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: 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/

