

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

NWS Austin/San Antonio, TX

Prepared by: Chris Morris February 8, 2024



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



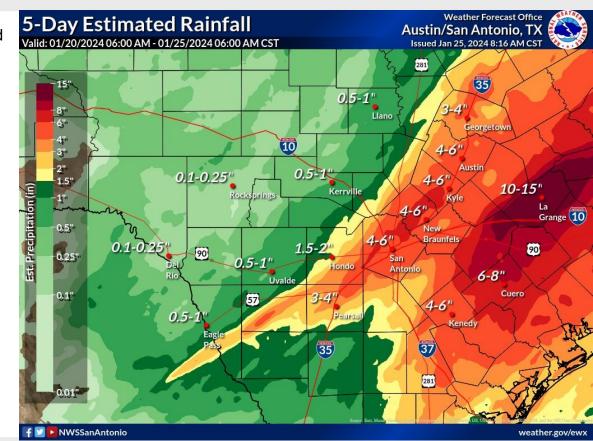
- El Nino made its presence felt over the course of January
- The Coastal Plains and I-35 Corridor saw well above normal rainfall for the month
  - The Hill Country, southern Edwards Plateau, and much of the Rio Grande Plains saw below normal rainfall for the month
- 5 forecast/non-forecast points exceeded flood stage, 16 forecast/non-forecast points exceeded action stage
- Thanks to the above normal rainfall, drought conditions greatly improved in the Coastal Plains, and I-35 Corridor while drought conditions persisted or slightly worsened across the remainder for the service area
- Rainfall outlooks show chances for above normal rainfall in the short term before trending to equal chances as we move into Spring of 24





January 21-25th Flooding

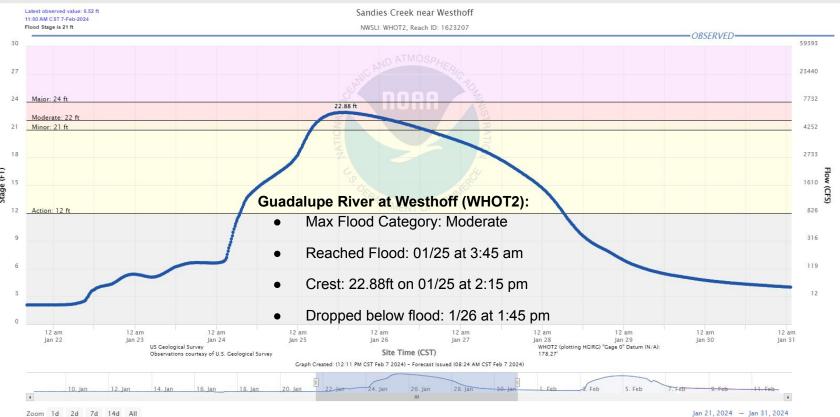
- Towards the later half of the month a broad wave brought several days of rainfall, periodically heavy, to much of the Coastal Plains and I-35 Corridor
  - Storm total amounts across Fayette
     County exceeded a foot of rain
  - Widespread flooding and flash flooding was experienced with this rainfall
  - A few rivers exceeded flood stage while several more rose into action stage.
  - A more detailed overview of this event is viewable in this storymap





# EATHER STATES

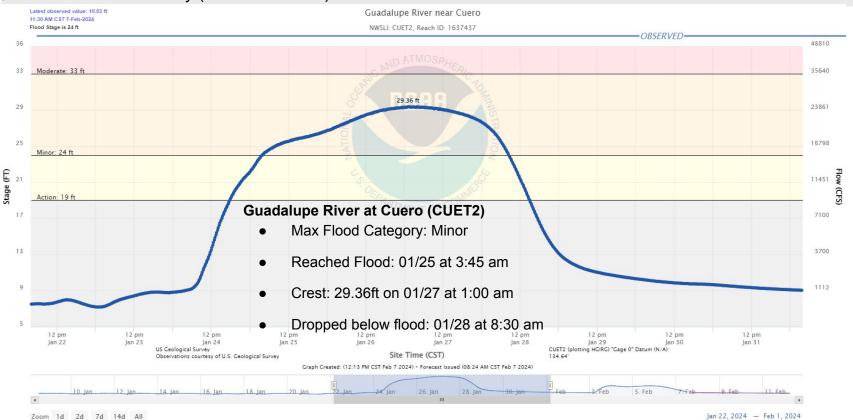
#### Flood Stage Report





# SEATHER SERVICE

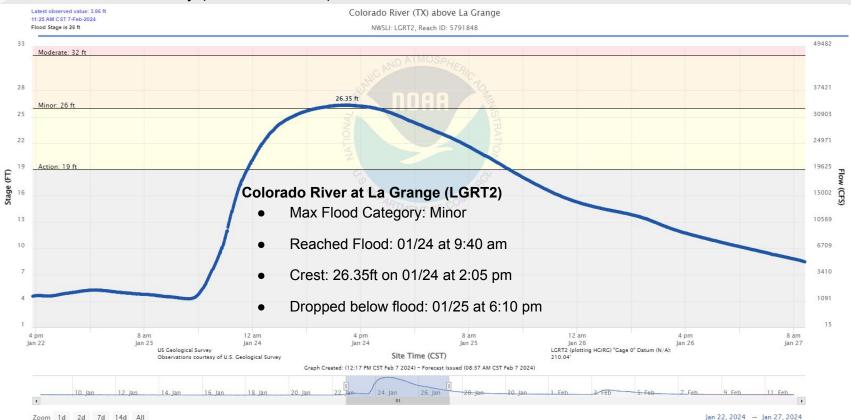
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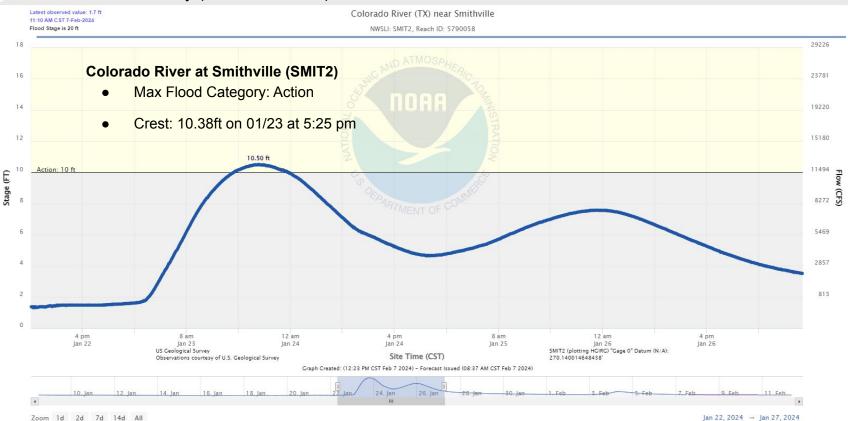
#### Flood Stage Report







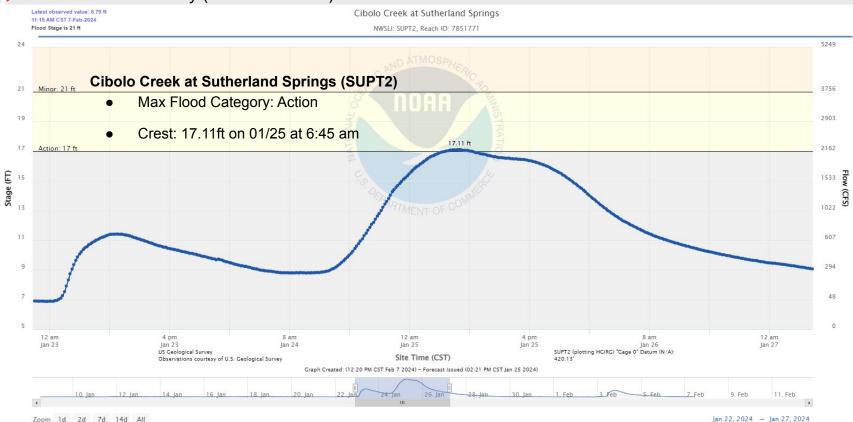
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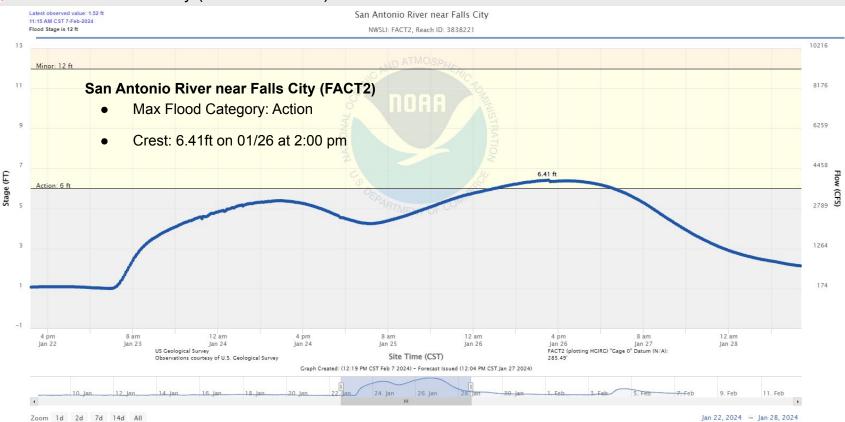
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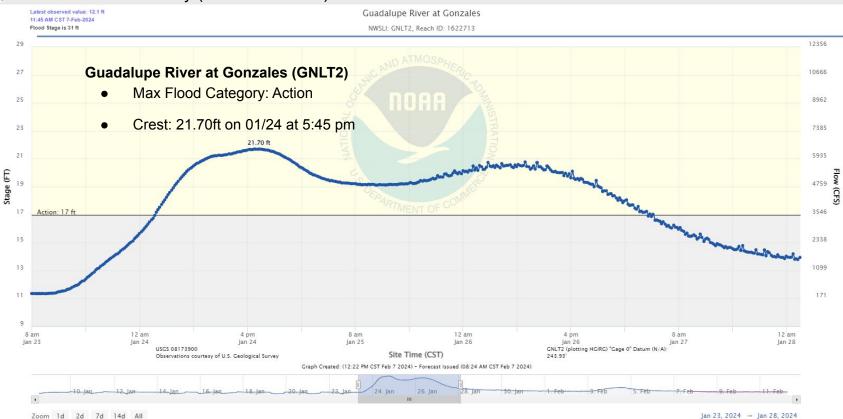
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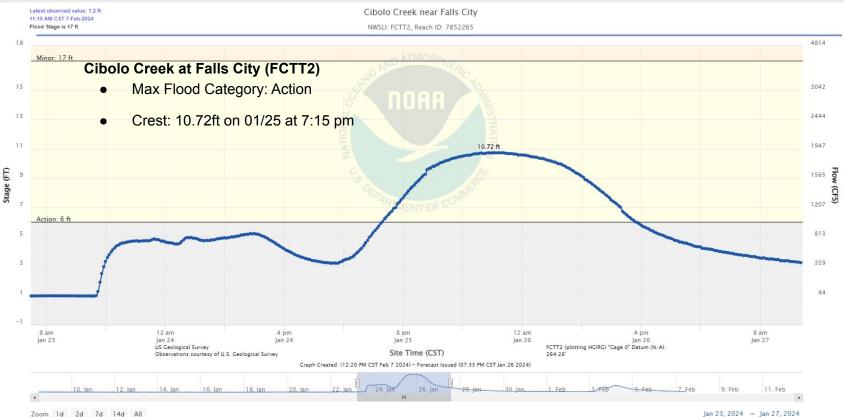
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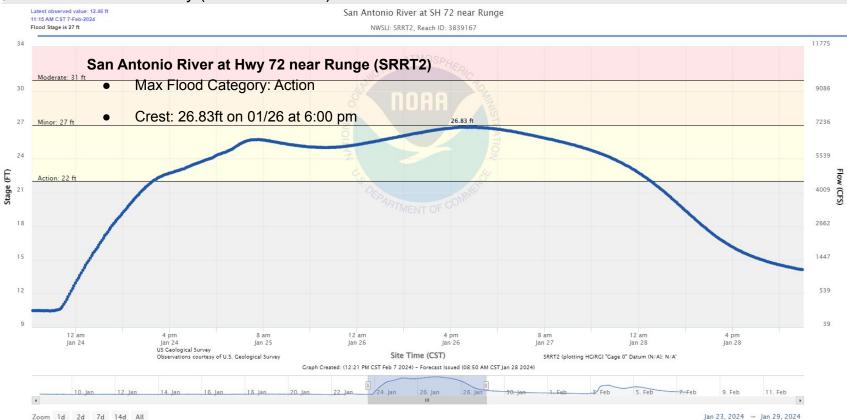
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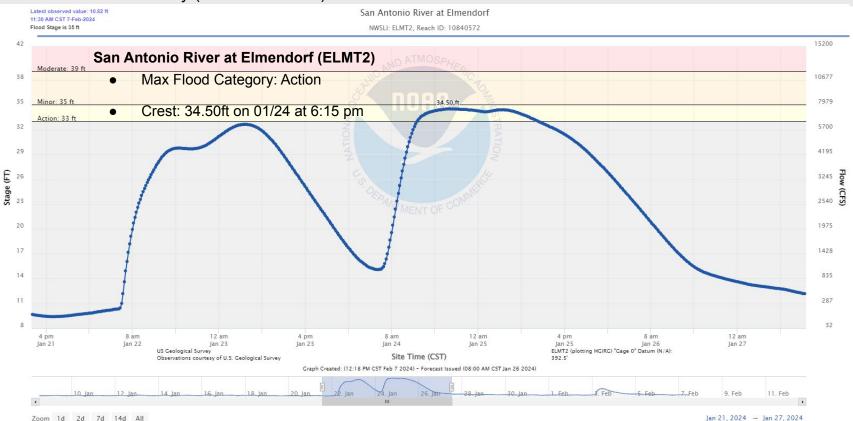
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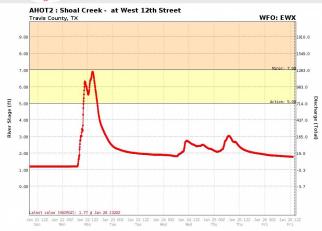
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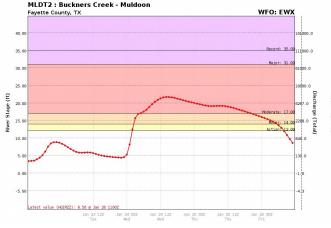


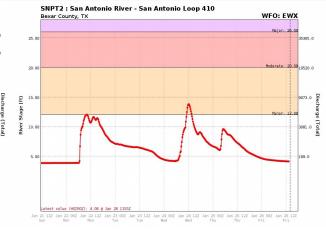


### Flood Stage Report

River Flood Summary (Non-Forecast Points)







#### Summary:

Crest: 6.89ft on 01/22 at 8:15 am

#### Summary:

- Crest: 21.71 on 01/24 at 8:25am
- Reached flood: 01/23 at 8:00pm
- Dropped below flood: 01/25 at 11:15pm

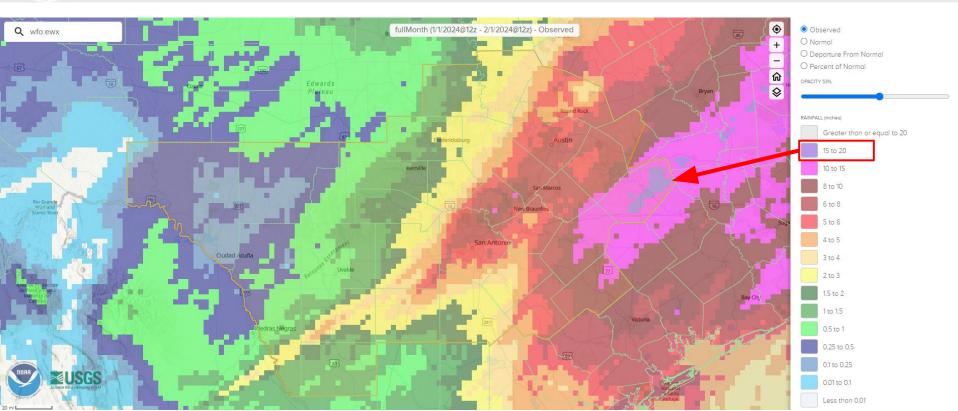
#### Summary:

- Crests: 12.00 on 01/22 at 4:00 am; 13.77ft on 01/24 at 6:00 am
- Reached flood: 01/22 at 3:45 am;01/24 at 5:30 am
- Dropped below flood: 01/22 at 4:15 am; 01/24 at 7:30 am

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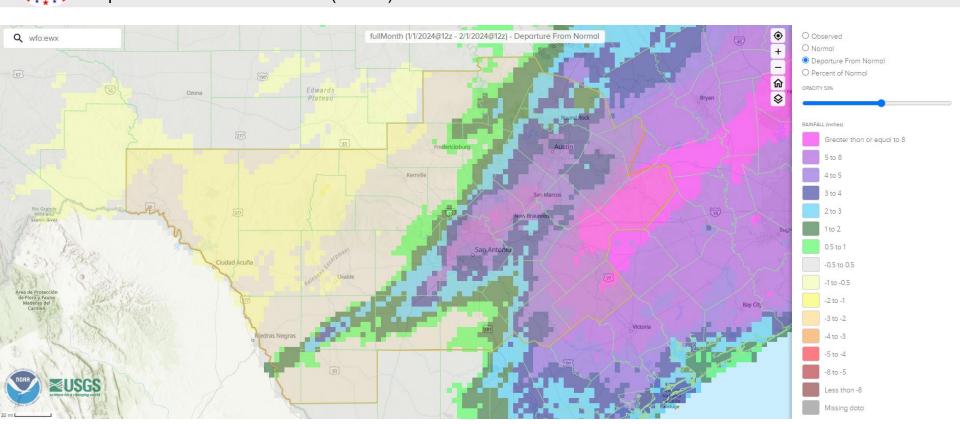








### January 2024 Rainfall Departure from Normal Rainfall (Inches)

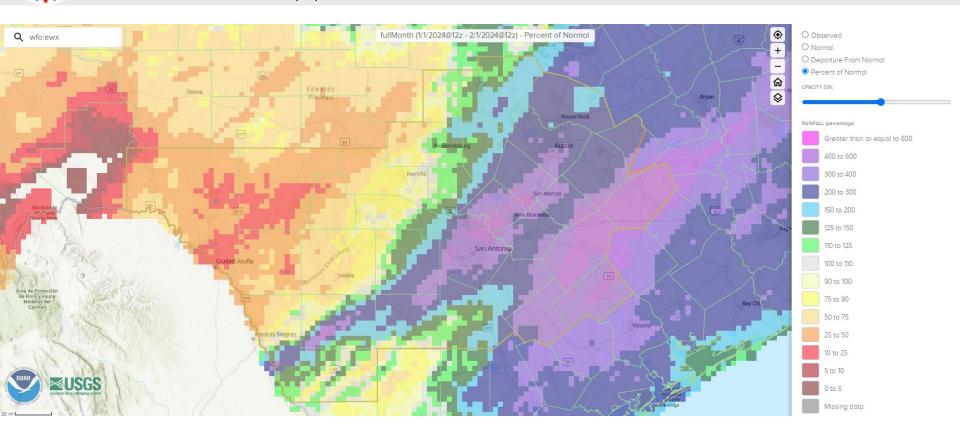






### **January 2024 Rainfall**

Percent of Normal Rainfall (%)

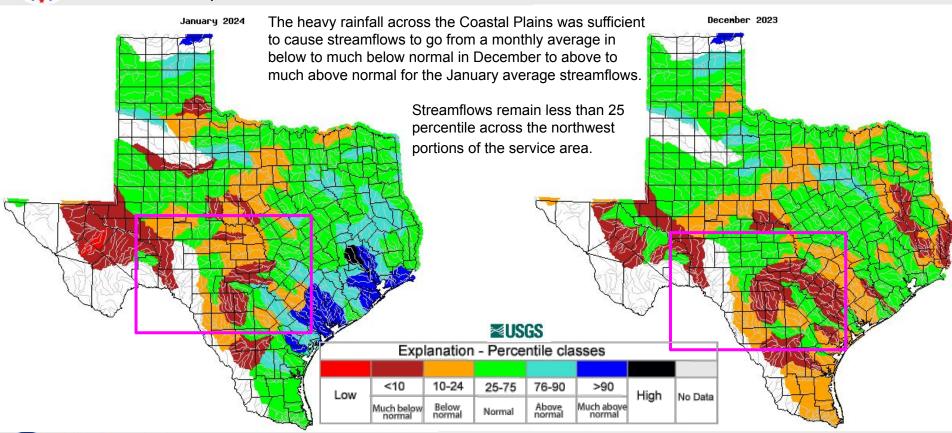




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#### **January 2024 - Historical Streamflow Comparison**

Streamflow Comparison





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	6.77"	2.82"	6.77"	2.82"	240%
Austin – Mabry	6.07"	2.64"	6.07"	2.64"	230%
Del Rio	0.17"	0.61"	0.17"	0.61"	28%
San Antonio	6.72"	1.96"	6.72"	1.96"	343%

<sup>\*</sup>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	7.78"	3.43"	7.78"	3.43"	227%
Corpus Christi	3.41"	1.39"	3.41"	1.39"	245%
Laredo	0.44"	0.90"	0.44"	0.90"	49%
San Angelo	0.51"	0.92"	0.51"	0.92"	55%
Victoria	7.67"	2.67"	7.67"	2.67"	287%
Waco	4.55"	2.59"	4.55"	2.59"	176%

<sup>\*</sup>The monthly averages and normal values are for the period 1991-2020



### 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	994.42	0.18
Lake Travis	681	631.46	-0.40
Canyon Lake	909	887.67	0.03
Medina Lake	1064.2	974.63	-0.26
Lake Amistad	1117	1058.99	-2.80





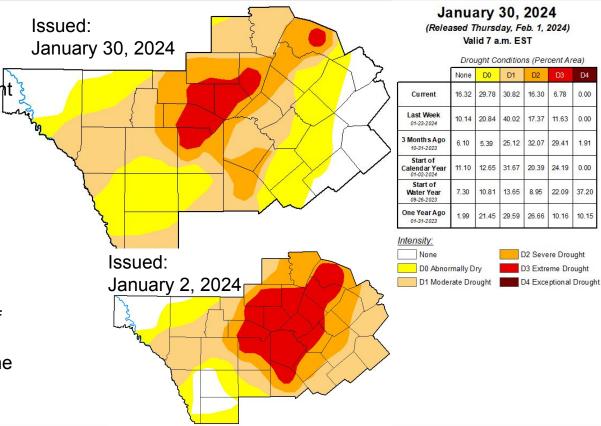
### Hydrologic Products Issued for the Month

Product Issued	Number Issued	Additional Comments
River Flood Warning/Area Flood Warning (FLW)	5	
River Flood Statement/Area Flood Advisory (FLS)	70	19 new issuances, 51 continuations, extensions, or cancelation issuances.
Flood Watch (FFA)	1	
Flash Flood Warning (FFW)	4	
Flash Flood Statement (FFS)	9	
Hydrologic Outlook (ESF)	6	AHPS probabilistic forecasts for the Brazos, Colorado, Guadalupe, San Antonio, Pecos, and Nueces Rivers



The above normal precipitation that occurred across the Coastal Plains, and I-35 Corridor allowed for significant improvement in drought conditions over the month of January, However, continued below normal precipitation prolongs drought conditions across portions of the Hill Country, southern Edwards Plateau, and Rio Grande Plains.

- D3 drought encompasses 7% of the CWA
- Drought doesn't affect 46% of the CWA



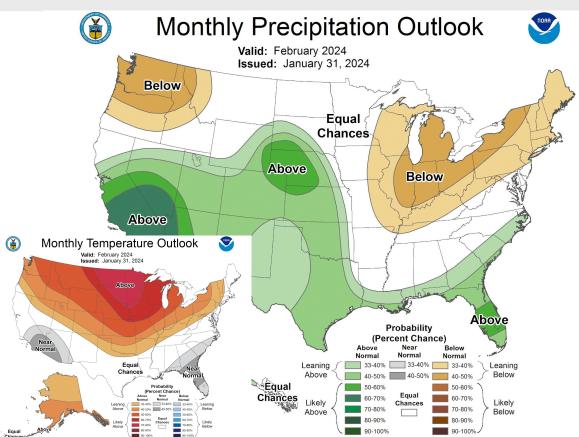




#### The most recent Monthly Outlook

- The Precipitation Outlook for the month of February leans towards above normal rainfall across the entire service area.
- The Temperature Outlook for February shows equal chances for at, below, or near normal values.

Click for latest graphics

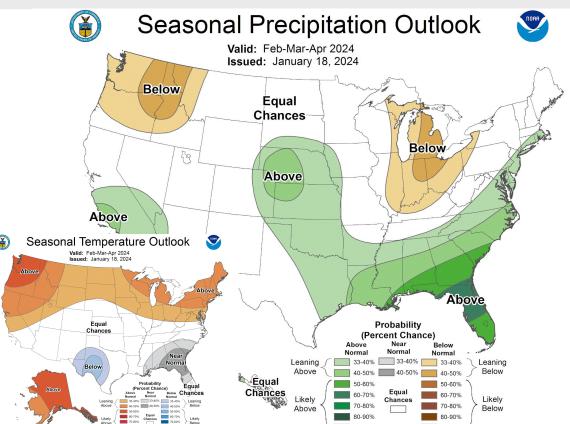






#### Looking at the Seasonal Outlooks

- The Precipitation Outlook shows equal chances of above, below, or near normal precipitation for the majority of the service area.
  - However, the far eastern portions of the I-35 corridor and coastal Plains chances lean towards above normal.
- The Temperature Outlook shows equal chances for either above, below, or near normal for much of the service area.
  - However, for portions of the southern Edwards Plateau, Hill Country, and Rio Grande Plains chances lean towards below normal values.



#### 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: <a href="http://www.weather.gov/wgrfc/">http://www.weather.gov/wgrfc/</a>

Or from the Precipitation Analysis page at: <a href="http://water.weather.gov/precip/">http://water.weather.gov/precip/</a>

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

Soil moisture conditions are available from the Climate Prediction Center at: <a href="http://www.cpc.ncep.noaa.gov/products/Soilmst\_Monitoring/US/Soilmst/Soilmst.shtml">http://www.cpc.ncep.noaa.gov/products/Soilmst\_Monitoring/US/Soilmst/Soilmst.shtml</a>

National Integrated Drought Information System: <a href="http://www.drought.gov/">http://www.drought.gov/</a>

