



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

NWS Austin/San Antonio, TX

Prepared by: Chris Morris

December 15, 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

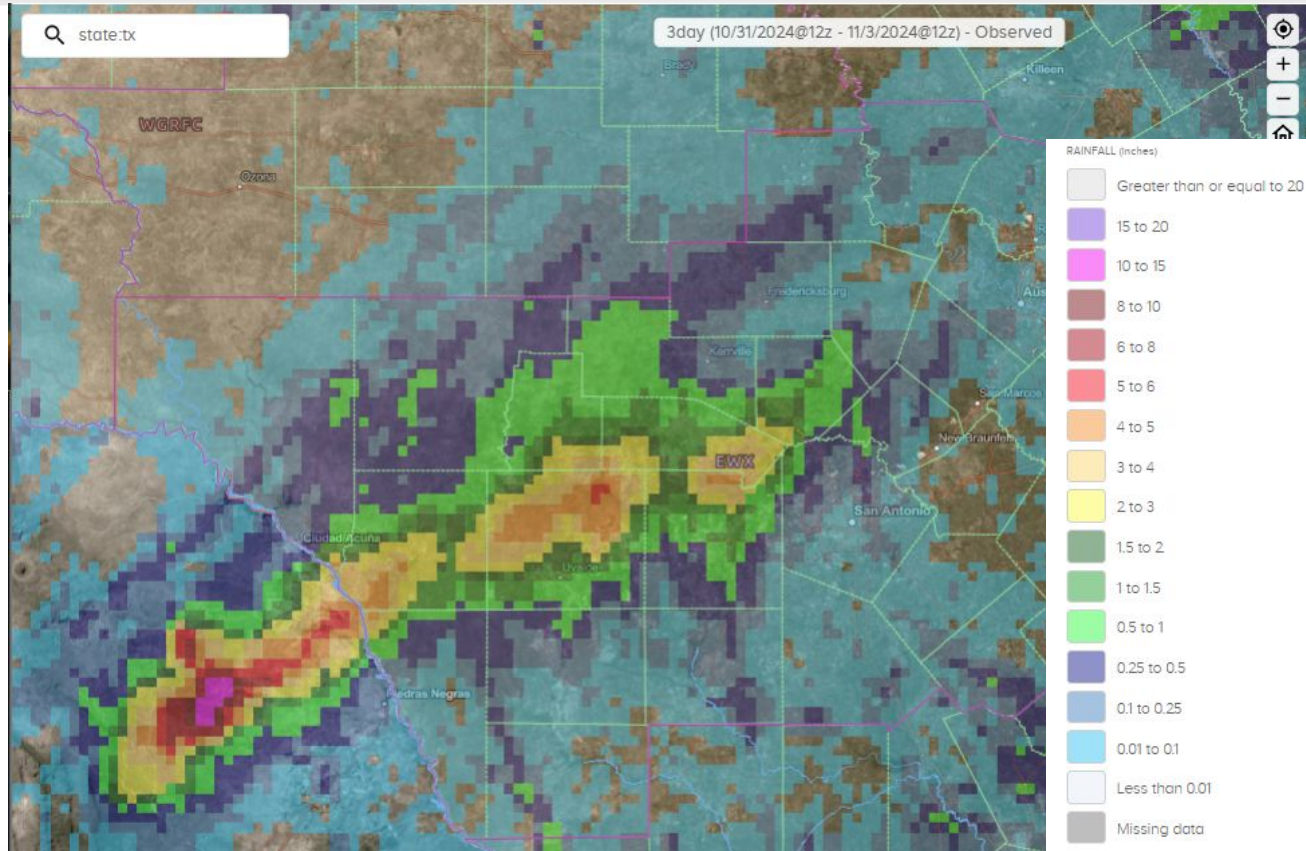


# Monthly Summary

## Recap: Early November Rainfall

Stagnant thunderstorms over the Mexican Mountains produced localized rainfall amounts up to 10 to 15 inches.

- The runoff from these storms resulted in the Rio Grande River at Eagle Pass rising into Action stage.
- Additional rises were seen in the Frio and Sabinal basins, however these rises did not result in any forecast point reaching action stage
- Localize flooding was observed on smaller tributaries; specifically Brushy Creek flooded Highway 127 3 miles southeast of Concan.





# Flood Stage Report (E3)

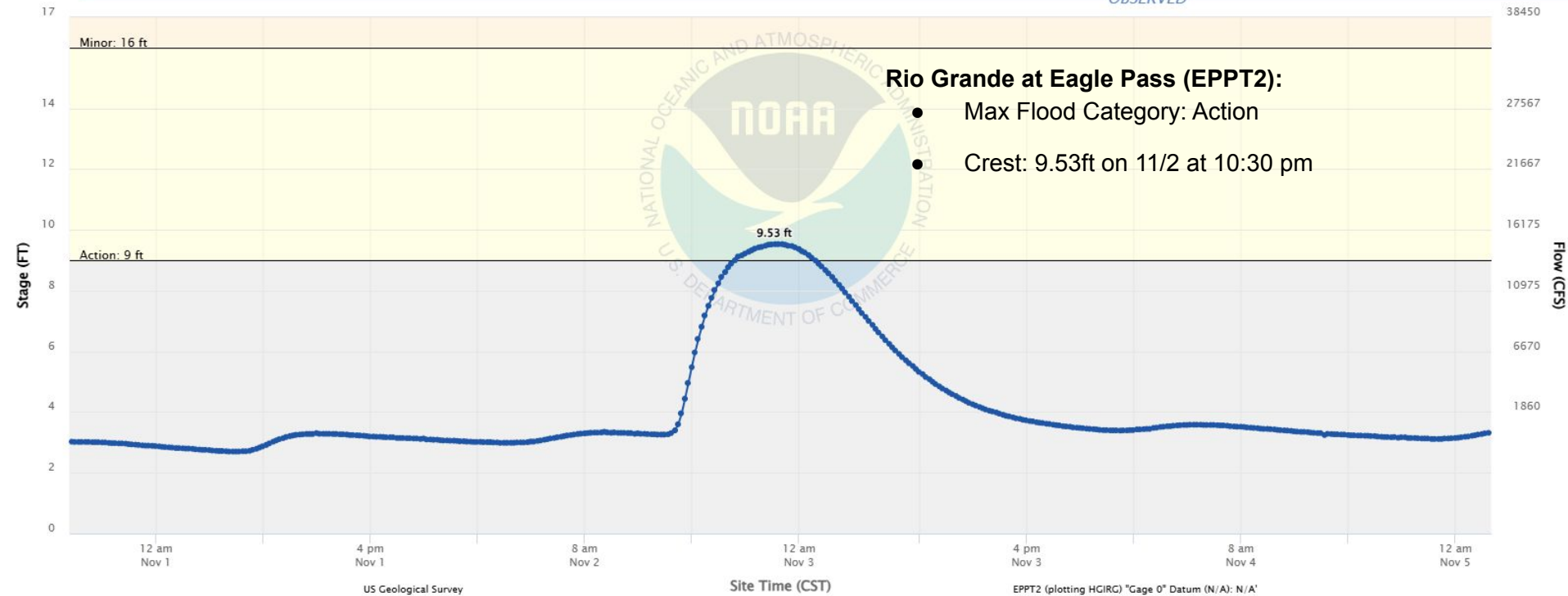
## River Flood Summary (Forecast Points)

Latest observed value: 3.23 ft  
9:00 AM CST 7-Nov-2024  
Flood Stage is 16 ft

Rio Grande at Eagle Pass

NWSLI: EPPT2, Reach ID: 1131001751

OBSERVED



Graph Created: (09:32 AM CST Nov 7 2024) - Forecast Issued (09:04 AM CST Nov 7 2024)



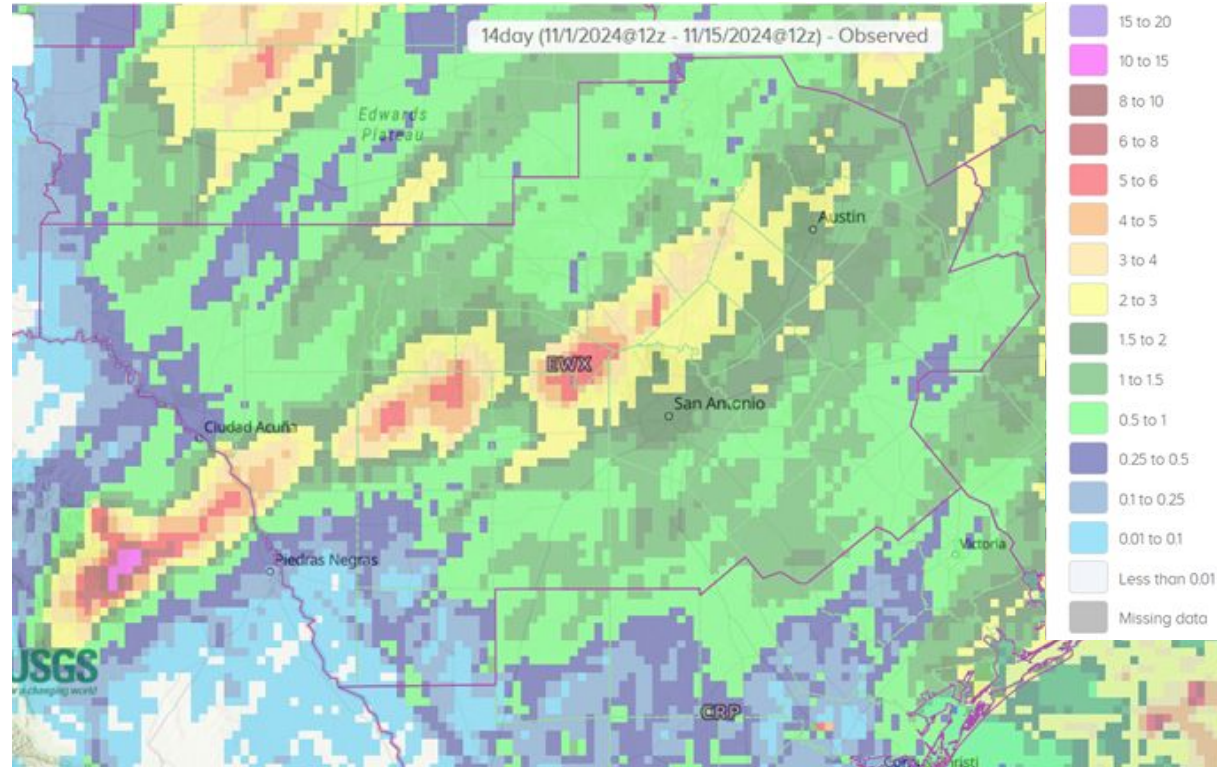


# Monthly Summary

## Recap: Early November Rainfall

Training storms ahead of a slowly southeastern moving cold front brought widespread rainfall to much of the service area on Nov 3rd and 4th.

- A swath of greater than 5 inches of rain stretched from Uvalde to Blanco Counties.
- Flooding and flash flooding was observed
  - One fatality occurred in Medina County.
- Given low streamflows prior to this rainfall, river responses were a little more localized.
  - One forecast point reached actions stage while two non-forecast points reached into minor flood stage.







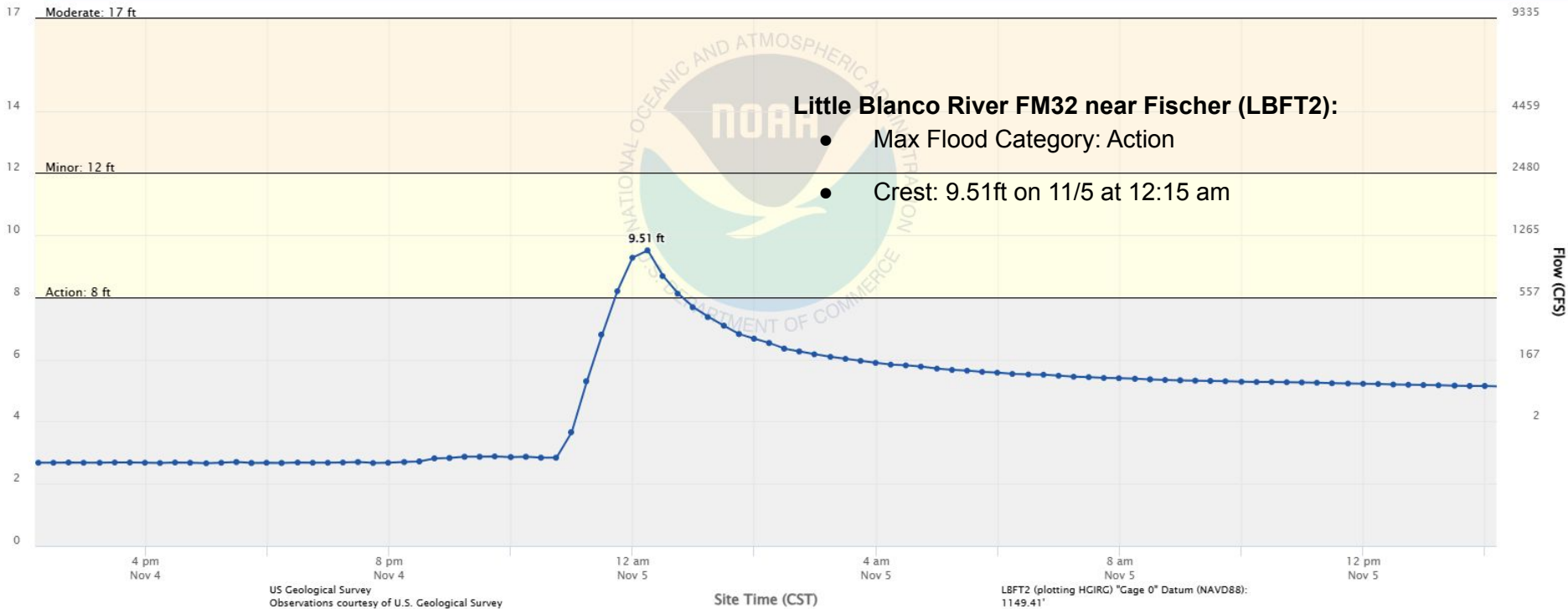
# Flood Stage Report (E3)

## River Flood Summary (Forecast Points)

Latest observed value: 4.81 ft  
9:15 AM CST 7-Nov-2024  
Flood Stage is 12 ft

Little Blanco River at FM32 near Fischer

NWSLI: LBFT2, Reach ID: 1628229





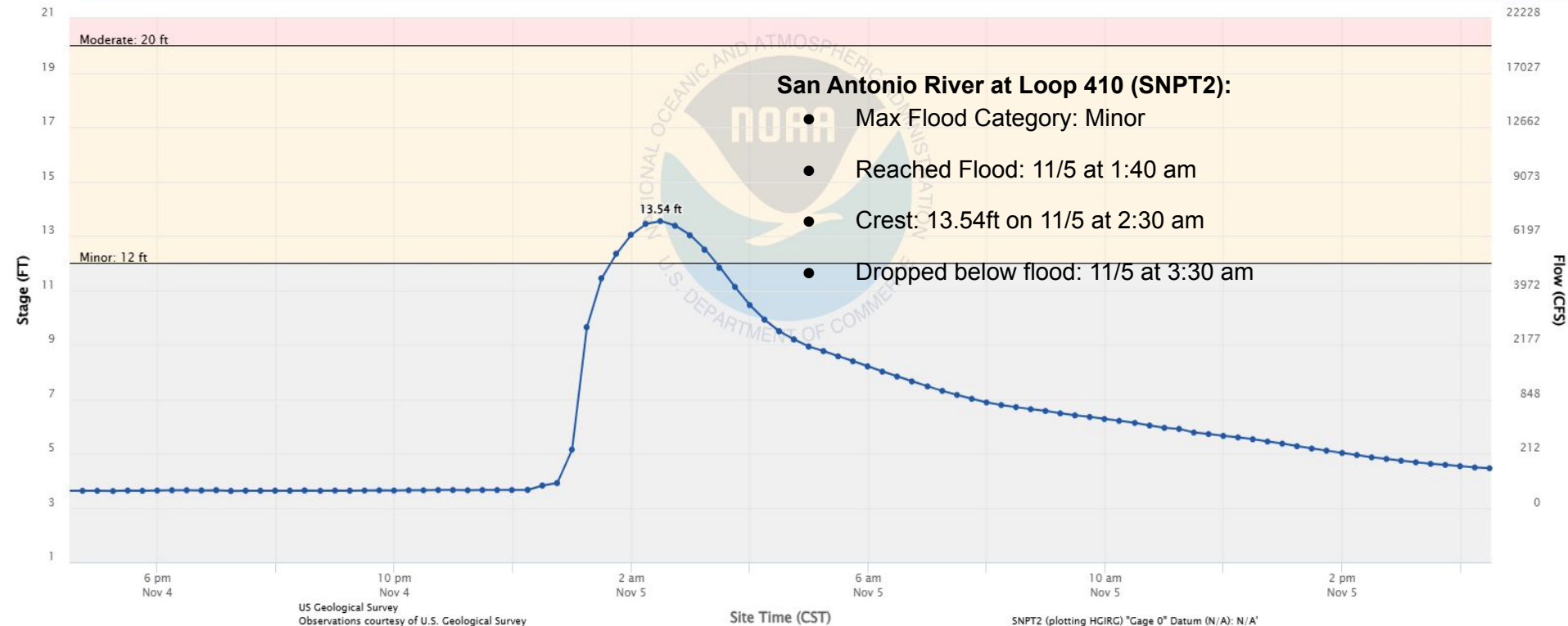
# Flood Stage Report (E3)

## River Flood Summary (Non-Forecast Point)

Latest observed value: 3.72 ft  
8:15 AM CST 7-Nov-2024  
Flood Stage is 12 ft

San Antonio River at Loop 410

NWSLI: SNPT2, Reach ID: 10840502



US Geological Survey  
Observations courtesy of U.S. Geological Survey

Site Time (CST)

SNPT2 (plotting HGIRC) \*Gage 0" Datum (N/A): N/A\*



National Oceanic and Atmospheric Administration  
U.S. Department of Commerce

National Weather Service  
Austin/San Antonio, TX



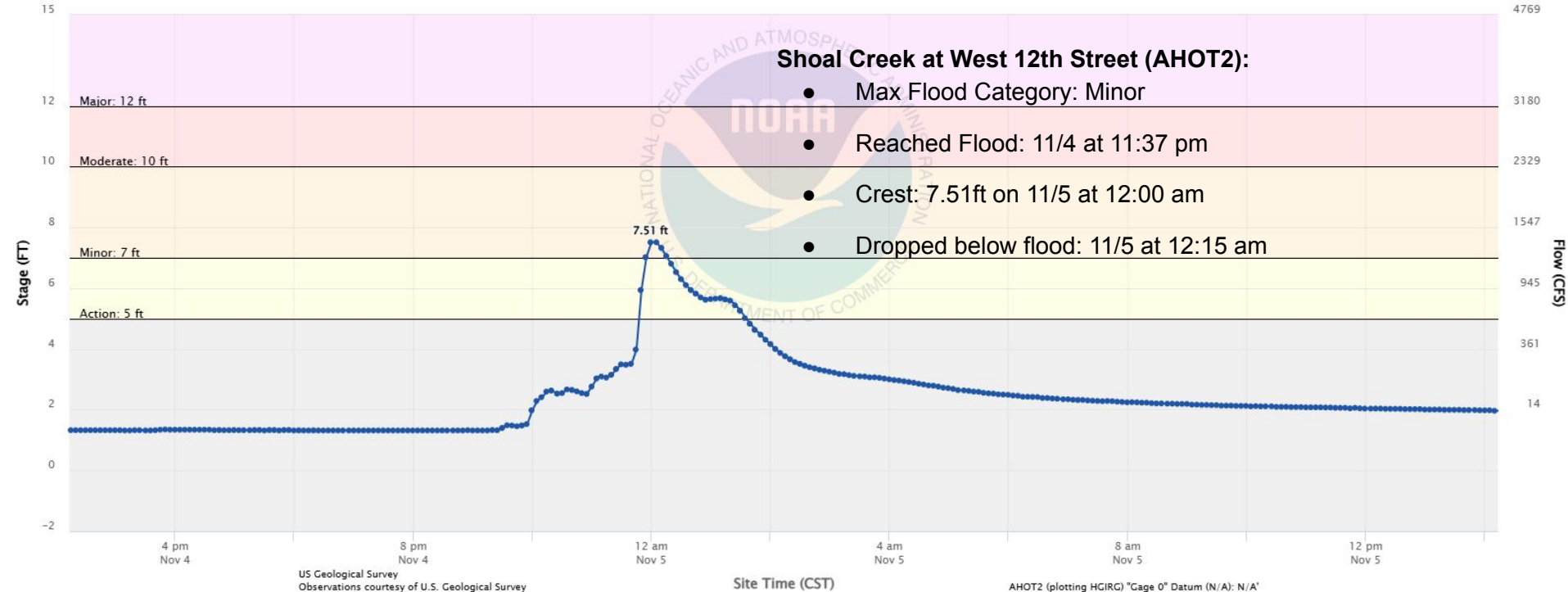
# Flood Stage Report (E3)

## River Flood Summary (Non-Forecast Point)

Latest observed value: 1.5 ft  
9:20 AM CST 7-Nov-2024  
Flood Stage is 7 ft

Shoal Creek at West 12th Street

NWSLI: AHOT2, Reach ID: 5781703





# 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)	7	
Flood Watch (FFA)	0	
Flash Flood Warning (FFW)	3	
Flash Flood Statement (FFS)	3	
Hydrologic Outlook (ESF)	6	AHPS probabilistic forecasts for the Brazos, Colorado, Guadalupe, San Antonio, Pecos, and Nueces Rivers

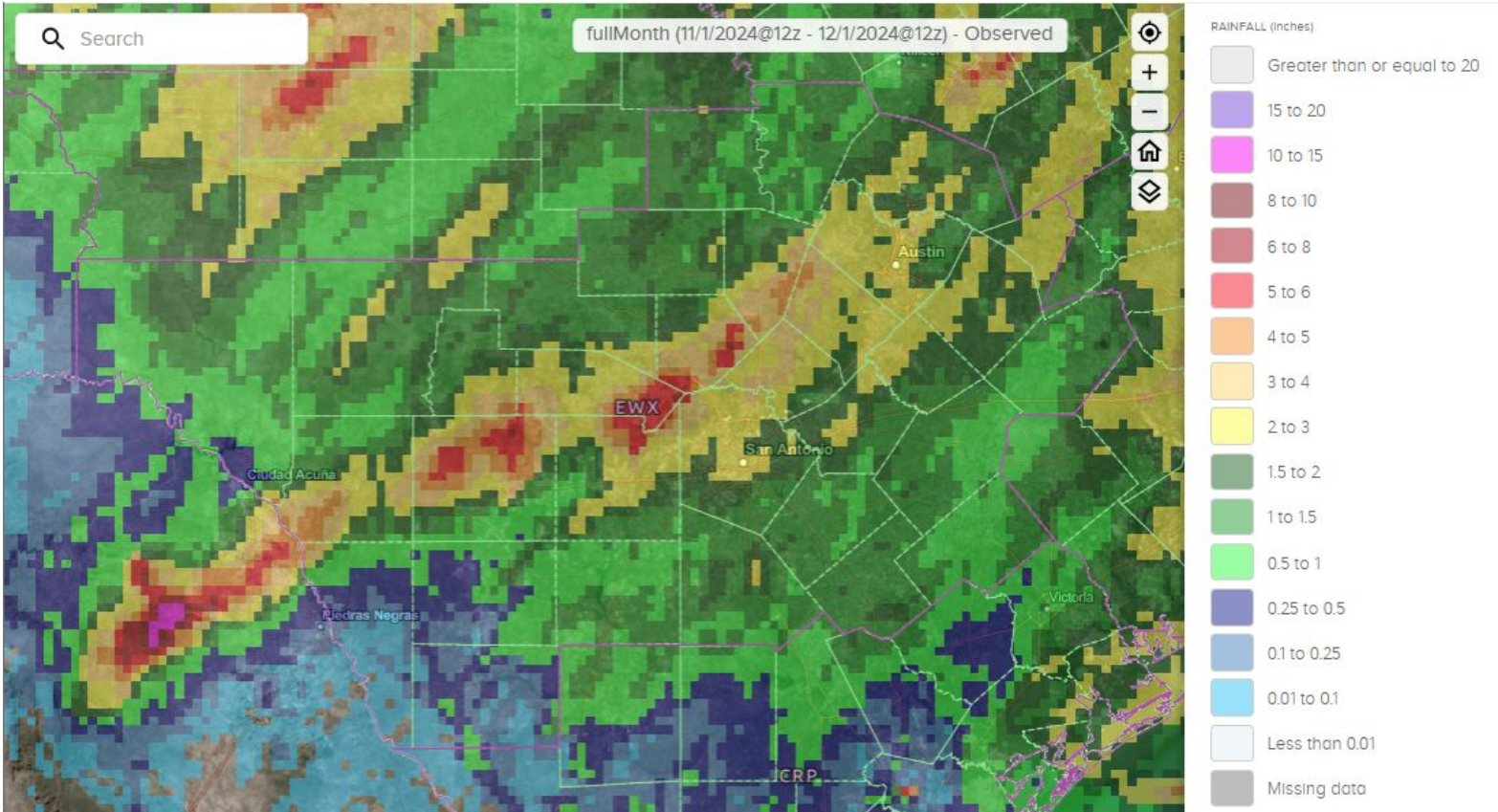






# Monthly Rainfall

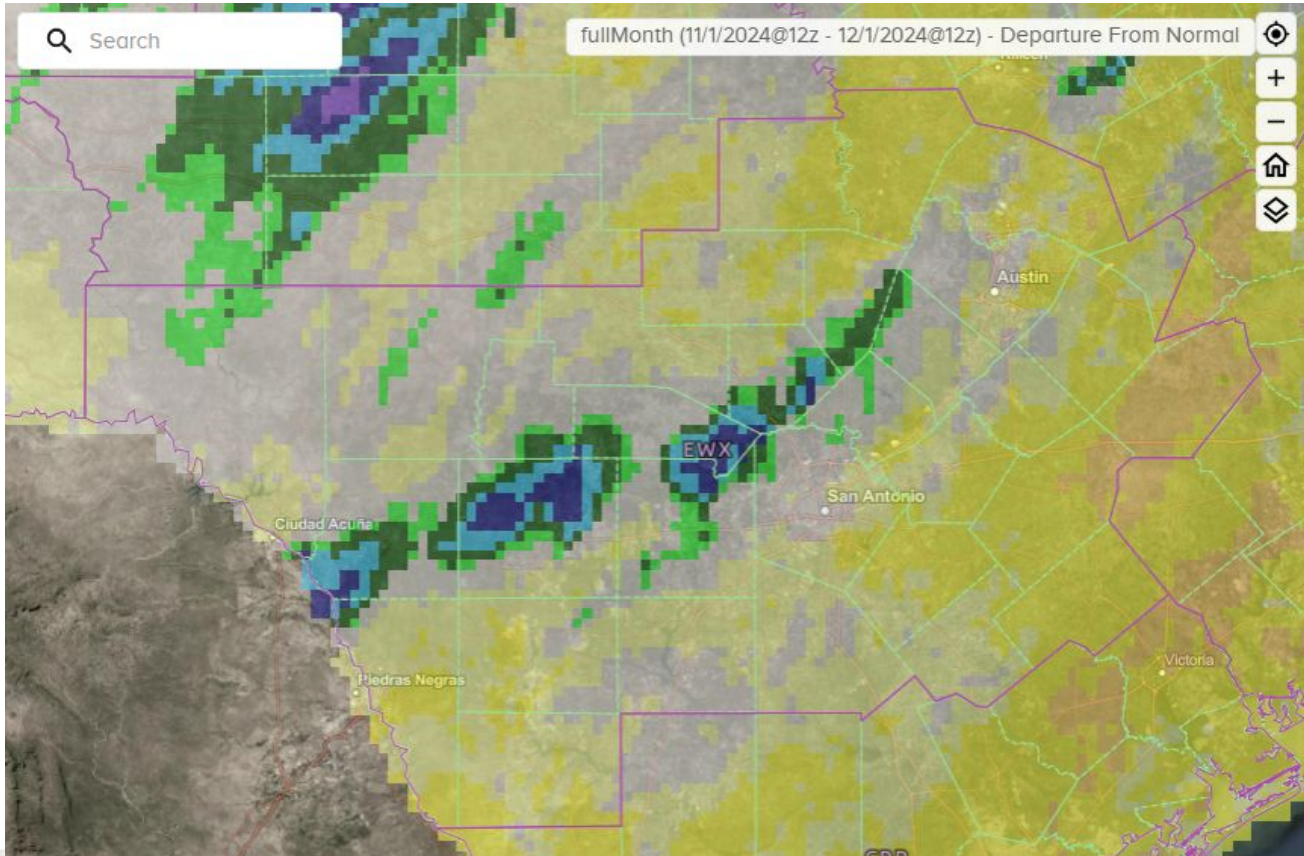
Observed Rainfall (Inches)





# Monthly Rainfall

Departure from Normal Rainfall (Inches)

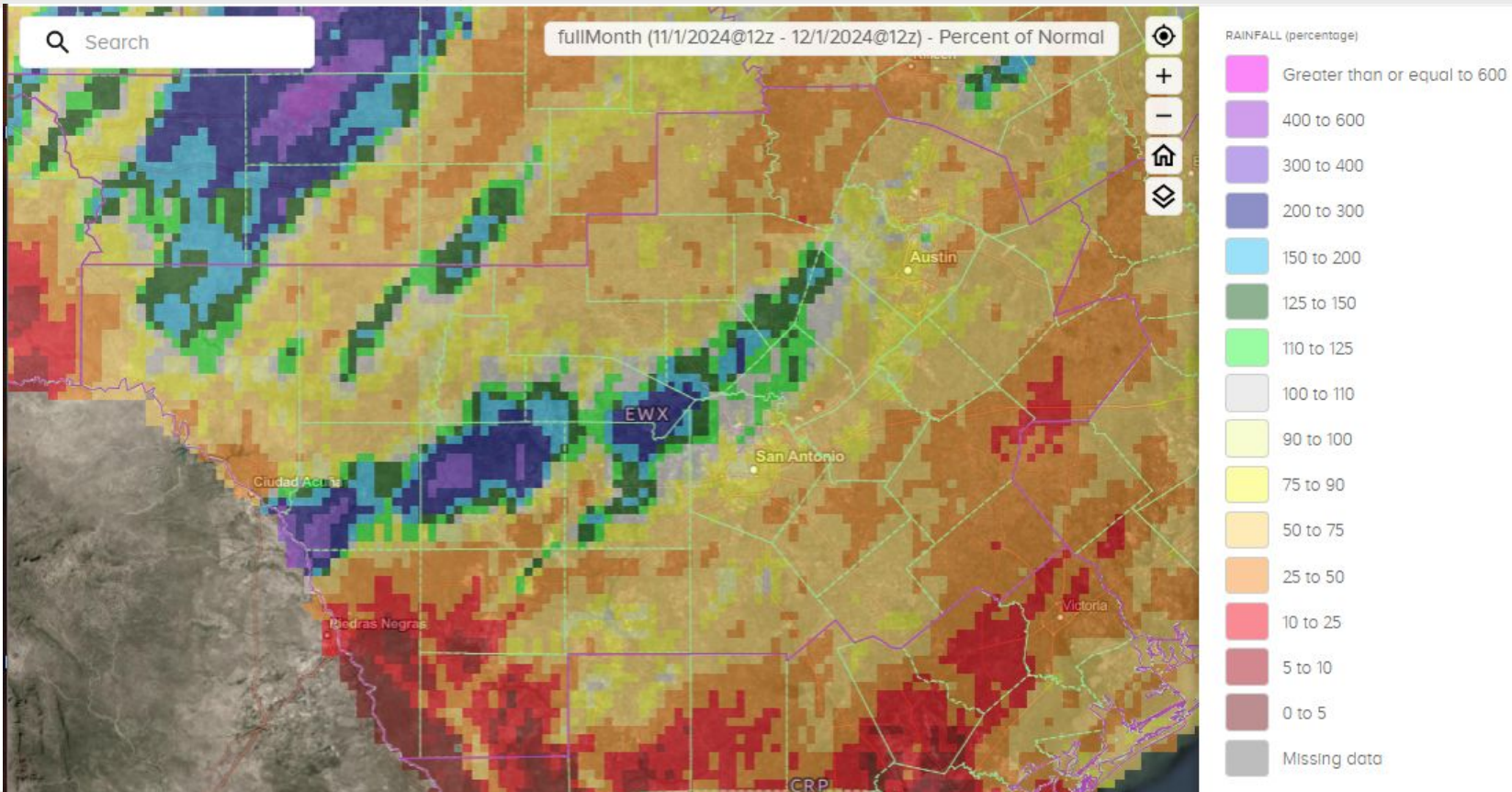






# Monthly Rainfall

Percent of Normal Rainfall (%)



National Oceanic and Atmospheric Administration  
U.S. Department of Commerce

National Weather Service  
Austin/San Antonio, TX



# Climate Station Rainfall Data For the Month

Austin/San Antonio Area

	<b>Monthly Rainfall</b>	<b>Monthly Average</b>	<b>2024 Rainfall Through Month</b>	<b>1991-2020 Normal Through Month</b>	<b>2024 Percent of Normal</b>
Austin – Bergstrom	1.51	2.68”	28.23”	32.96”	86%
Austin – Mabry	2.26”	2.92”	26.69”	33.53”	80%
Del Rio	0.23”	0.91”	10.38”	19.11”	54%
San Antonio	1.80”	2.08”	23.10”	30.38”	76%

\*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	2.46"	3.31"	42.40"	37.50"	113%
Corpus Christi	0.15"	2.03"	26.22"	29.81"	88%
Laredo	0.03"	1.04"	8.36"	20.28"	41%
San Angelo	6.08"	1.16"	19.09"	20.04"	95%
Victoria	0.47"	2.93"	33.69"	38.07"	88%
Waco	1.89"	2.71"	32.45"	33.53"	97%

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





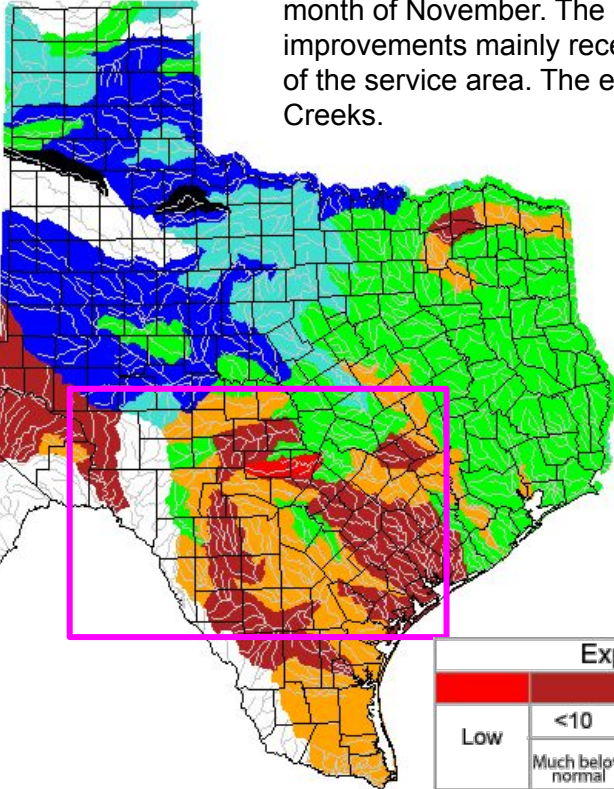


# Monthly Historical Streamflow Comparison

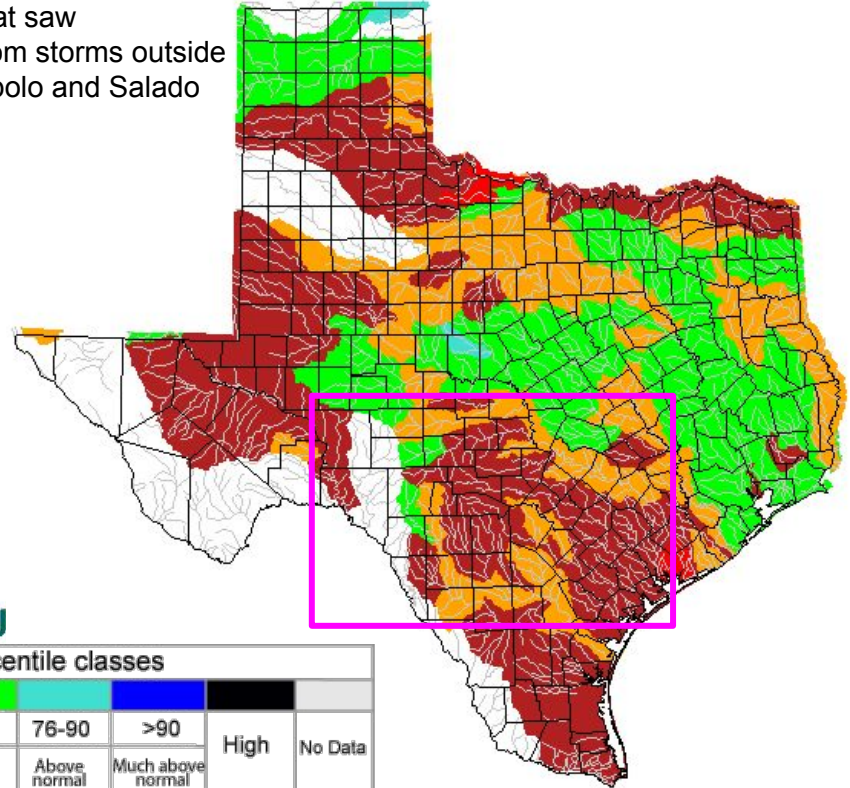
## Streamflow Comparison

November 2024

Low to very low streamflow values continue through the month of November. The only basins that saw improvements mainly received runoff from storms outside of the service area. The exception is Cibolo and Salado Creeks.



October 2024



### 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	1004.41	0.75
Lake Travis	681	638.20	-0.47
Canyon Lake	909	881.46 New record low	-0.79
Medina Lake	1064.2	972.75	0.15
Lake Amistad	1117	1051.11	-0.15



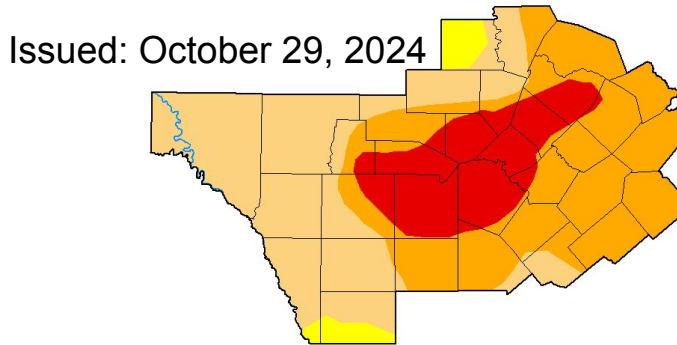
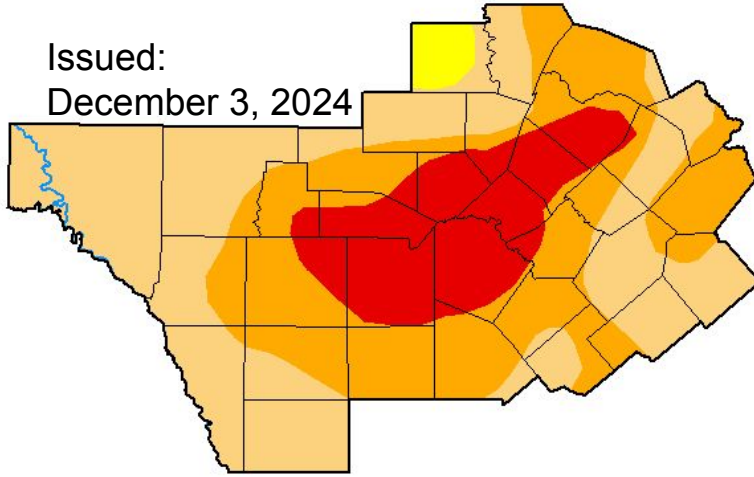


# Drought Conditions

## Monthly Drought Monitor Comparison

Only slight changes were noted with respect to drought categories across the service area. Only minor expansion of D1 across the Winter Garden, while seeing some improvements within the Coastal Plains thanks to the early month rainfall.

- D3 drought expanded to encompass 18% of the CWA
- Drought doesn't affect 0% of the CWA



**December 3, 2024**  
(Released Thursday, Dec. 5, 2024)  
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
<b>Current</b>	0.00	1.83	44.19	35.92	18.06	0.00
<b>Last Week</b> 11-26-2024	0.00	1.83	45.30	34.81	18.06	0.00
<b>3 Months Ago</b> 09-03-2024	44.48	23.44	23.34	7.04	1.70	0.00
<b>Start of Calendar Year</b> 01-02-2024	11.10	12.65	31.67	20.39	24.19	0.00
<b>Start of Water Year</b> 10-01-2024	9.75	56.59	28.92	4.42	0.33	0.00
<b>One Year Ago</b> 12-05-2023	13.15	10.24	29.68	23.56	23.37	0.00

Intensity:

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



# One Month Outlook

## The Monthly Outlook for December

- The Precipitation Outlook shows a leaning towards above normal rainfall for the month of December across the eastern half of the service area while the western half has equal chances for at, below, or near normal rainfall
- The Temperature Outlook continues to lean towards above normal temperatures for the entire service area

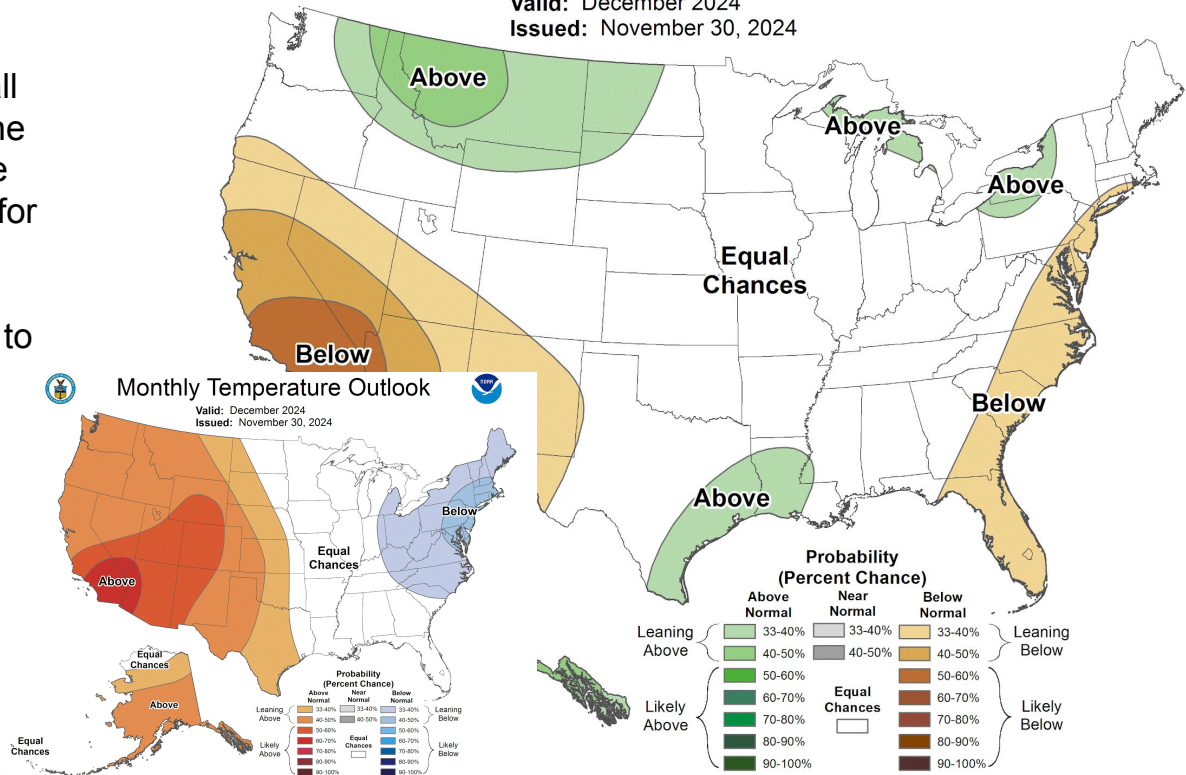
[Click for latest graphics](#)



## Monthly Precipitation Outlook



Valid: December 2024  
Issued: November 30, 2024







# Three Month Outlook

Looking at the Seasonal Outlook

- The Precipitation Outlook for the Winter shows the likelihood of below normal precipitation for the entire service area
- Much like the monthly outlook, the Temperature Outlook for the Winter shows the likelihood for above normal temperatures across the service area

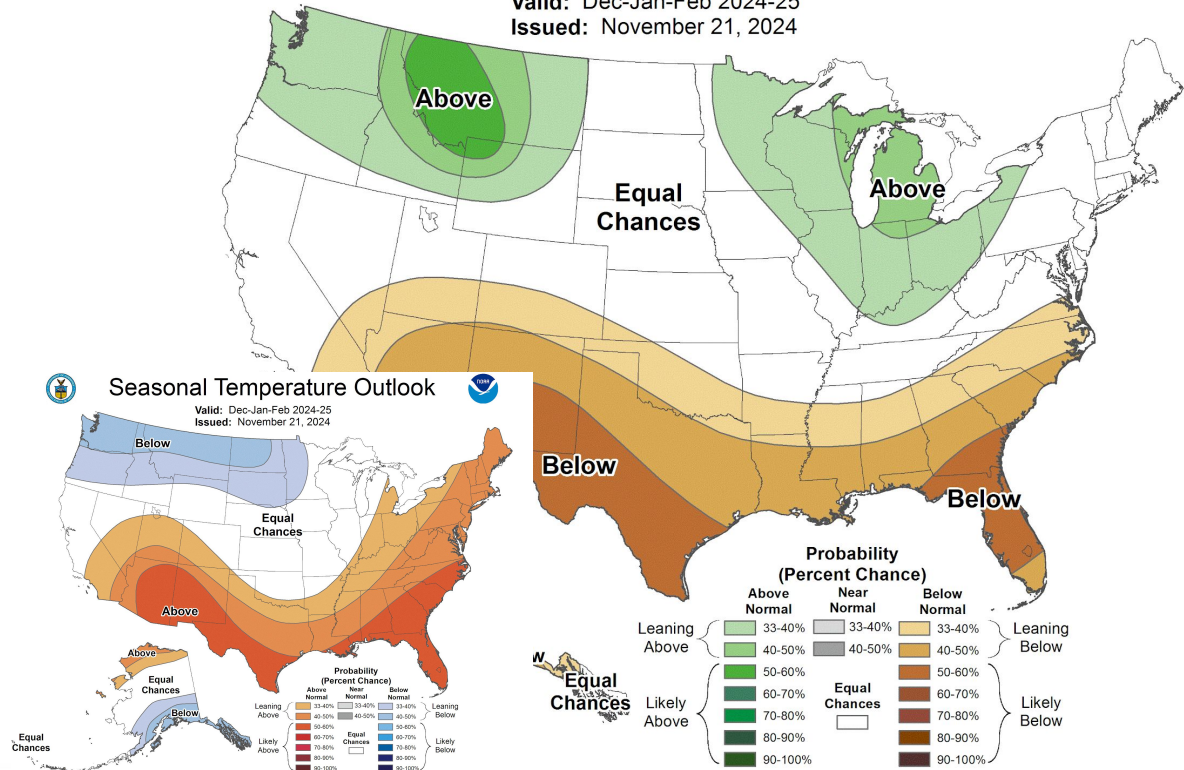
[Click for latest graphics](#)



## Seasonal Precipitation Outlook



Valid: Dec-Jan-Feb 2024-25  
Issued: November 21, 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: <https://water.noaa.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](http://www.cpc.ncep.noaa.gov/products/Soilmst_Monitoring/US/Soilmst/Soilmst.shtml)

National Integrated Drought Information System: <http://www.drought.gov/>