

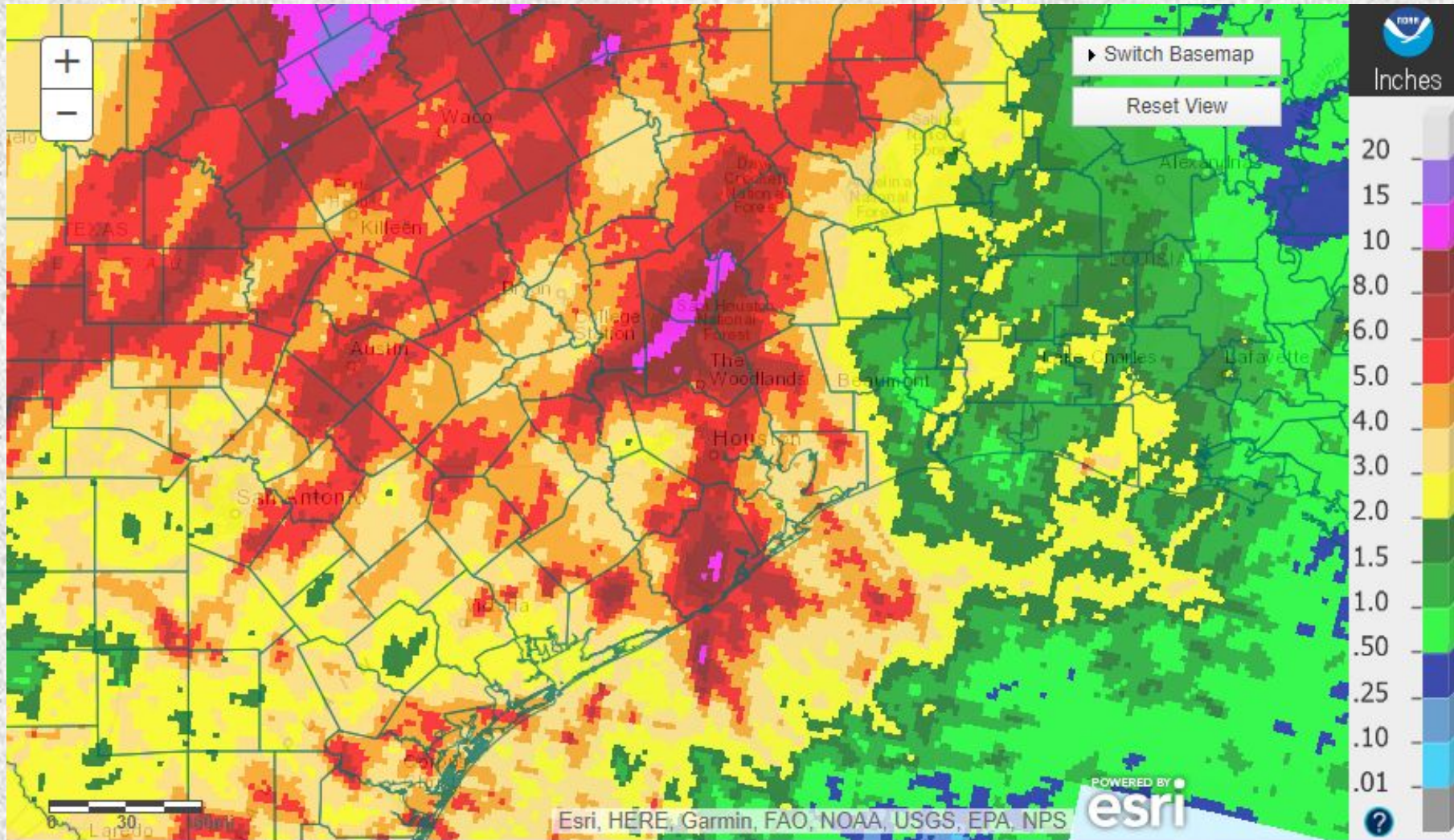
# NWS Houston/Galveston Monthly Hydrologic Report October 2023

**Produced by: Cameron Batiste**

**Date: 11/08/2023**

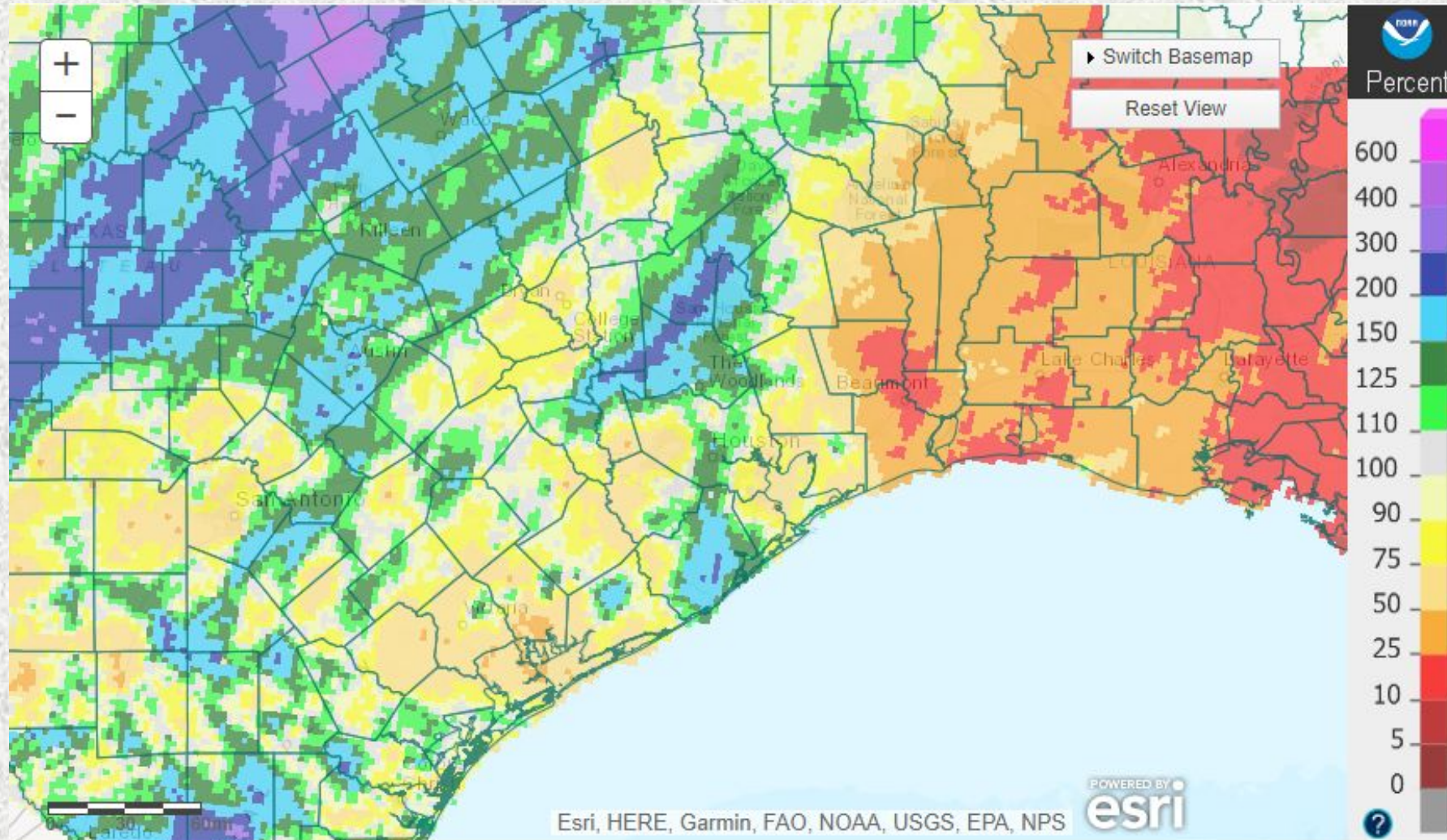
Multiple days of heavy rainfall at the beginning of the month brought noticeable improvements to the ongoing drought conditions with most of Southeast Texas seeing 3-6" of rain and isolated areas seeing 10+". We went into October with widespread extreme and exceptional drought, and thanks to the rainfall some portions of the area are down into the lowest categories of drought.

# Monthly Precipitation



Houston/Galveston, TX: October, 2023 Monthly Observed Precipitation  
Valid on: November 01, 2023 12:00 UTC

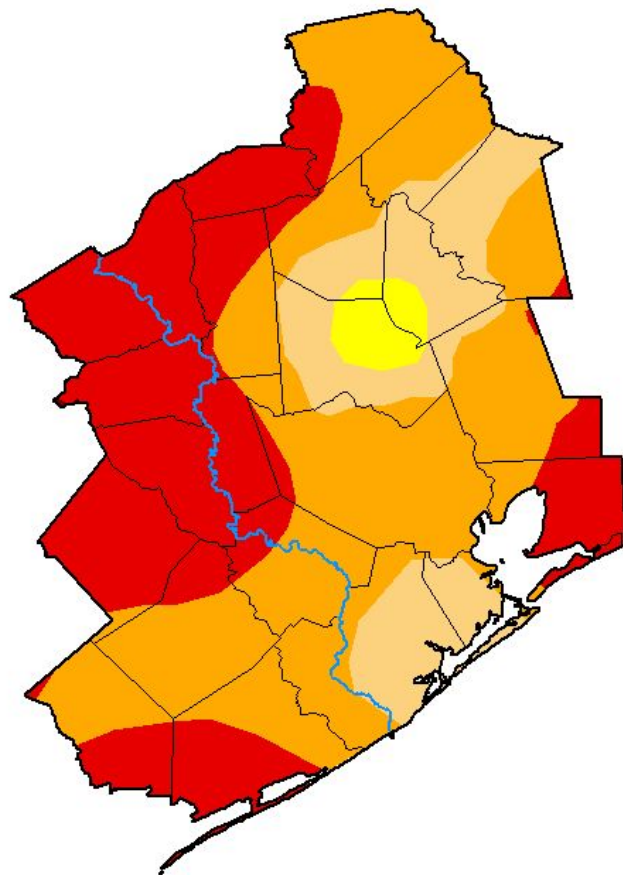
# Monthly Percent of Normal Precipitation



Houston/Galveston, TX: October, 2023 Monthly Percent of Normal Precipitation  
Valid on: November 01, 2023 12:00 UTC

# U.S. Drought Monitor

## U.S. Drought Monitor Houston/Galveston, TX WFO



**October 24, 2023**  
(Released Thursday, Oct. 26, 2023)  
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	0.00	100.00	97.55	81.38	35.98	0.02
<b>Last Week</b> 10-17-2023	0.00	100.00	97.55	81.38	35.44	0.02
<b>3 Months Ago</b> 07-25-2023	0.00	100.00	36.67	7.46	0.00	0.00
<b>Start of Calendar Year</b> 01-03-2023	84.11	15.89	6.96	0.00	0.00	0.00
<b>Start of Water Year</b> 09-26-2023	0.00	100.00	100.00	100.00	99.98	55.82
<b>One Year Ago</b> 10-25-2022	0.00	100.00	87.55	28.19	5.76	0.00

Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Rocky Bilotta  
NCEI/NOAA



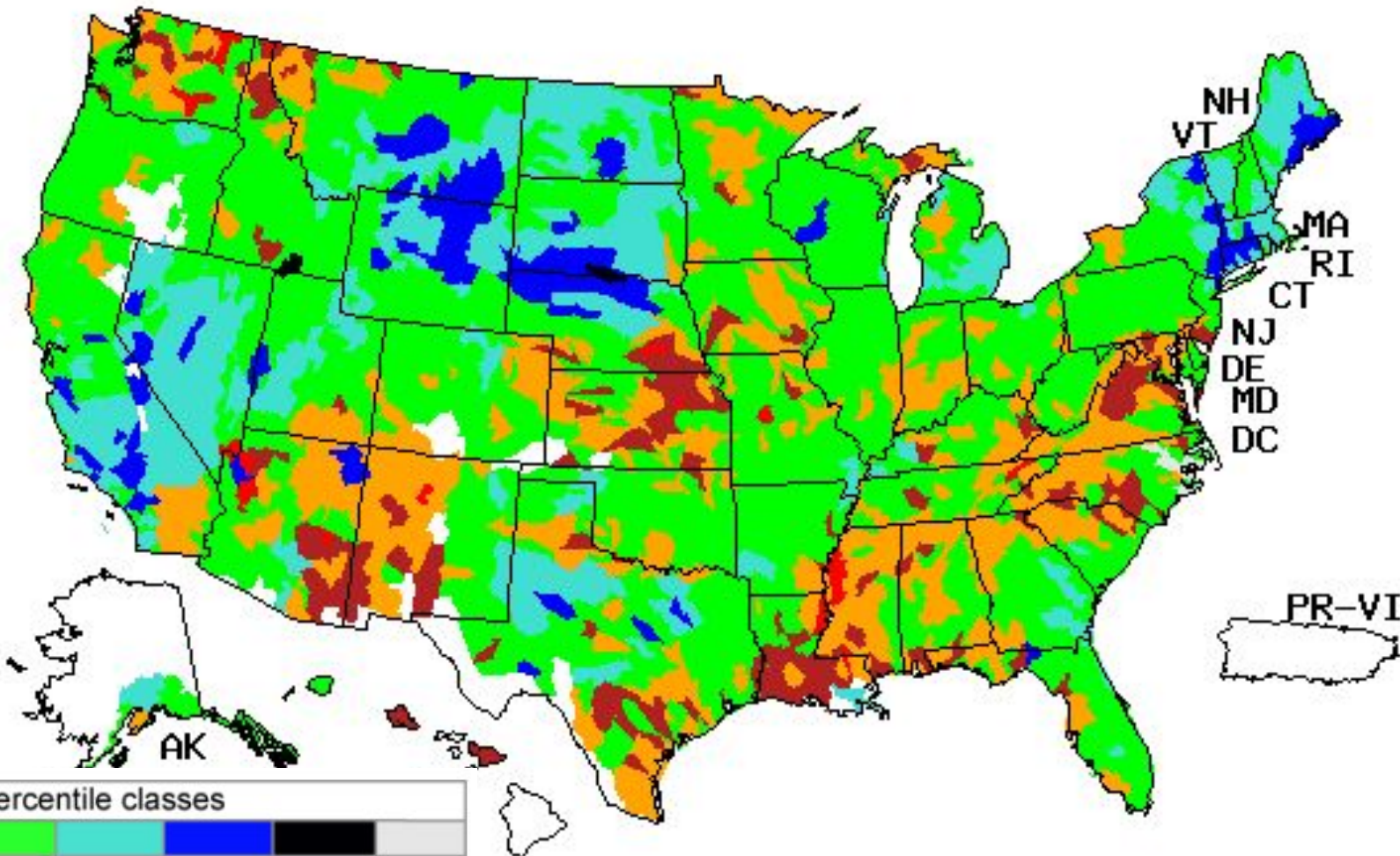
[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

# River Flooding

River and Station	Flood Stage (feet)	Crest Stage (feet)	Crest Date
None			

# Monthly Average Streamflow

October 2023

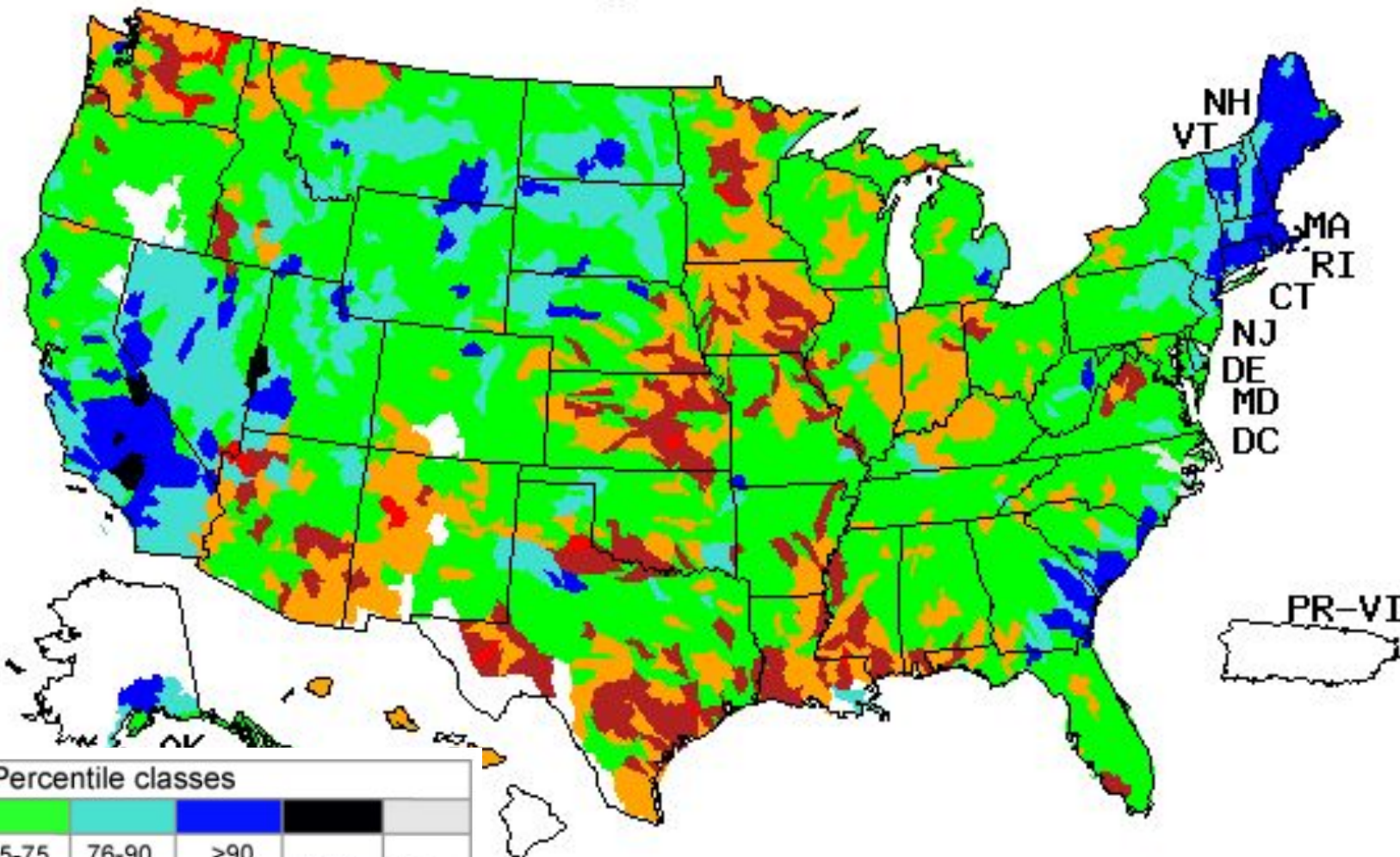


Explanation - Percentile classes

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

# Previous Monthly Average Streamflow

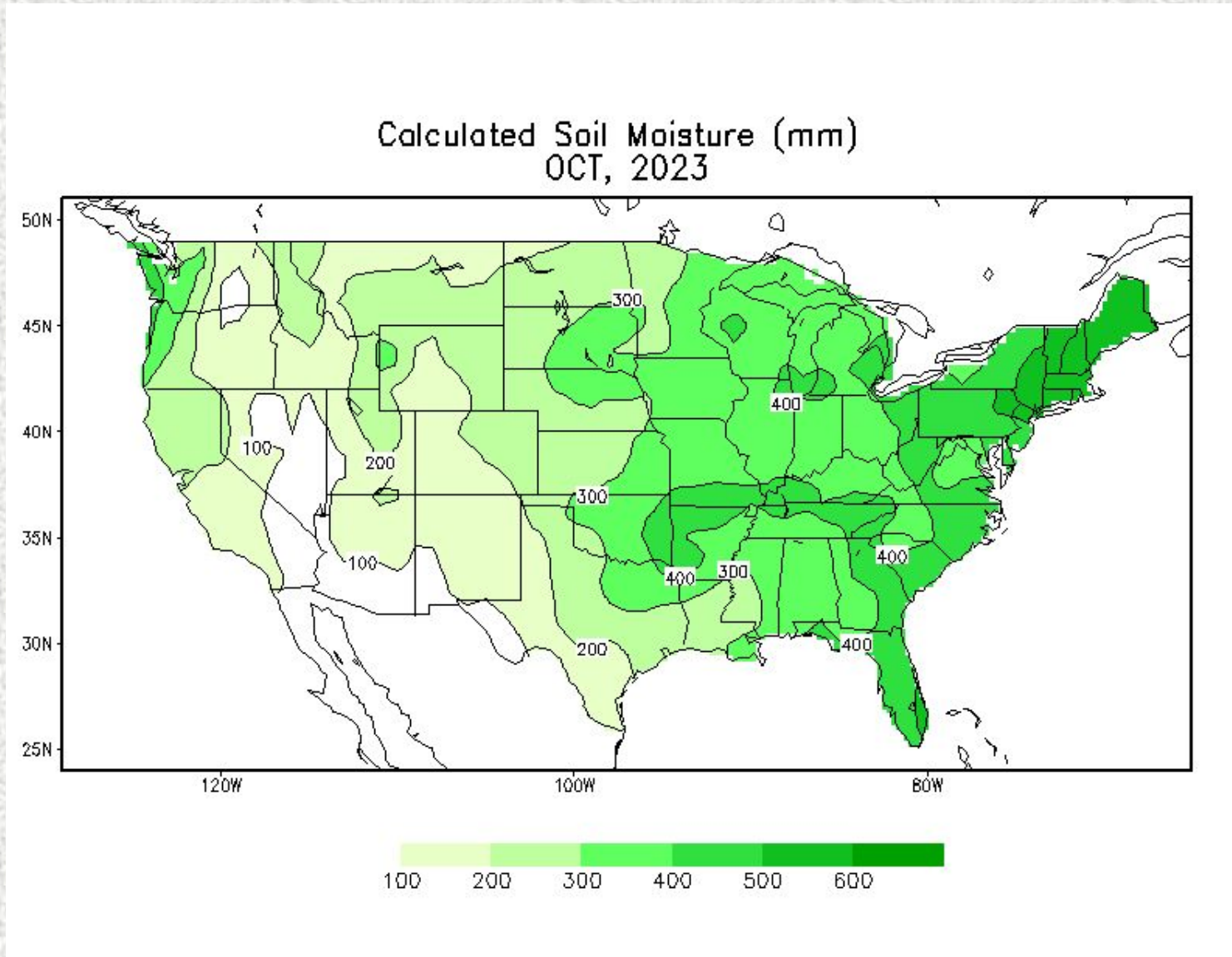
September 2023



Explanation - Percentile classes

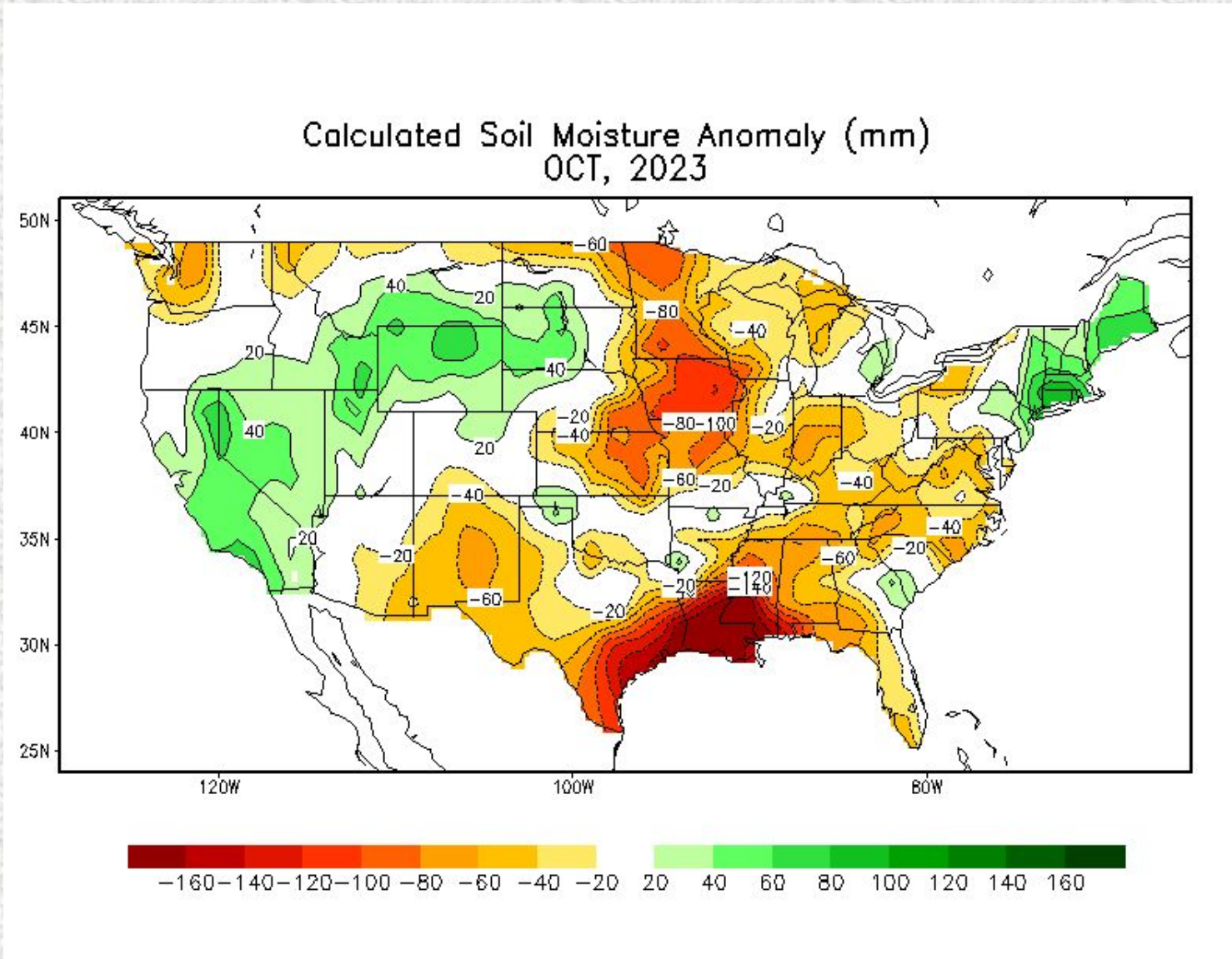
Low	<10	10-24	25-75	76-90	>90	High	No Data	
	Much below normal	Below normal	Normal	Above normal	Much above normal			

# Soil Moisture

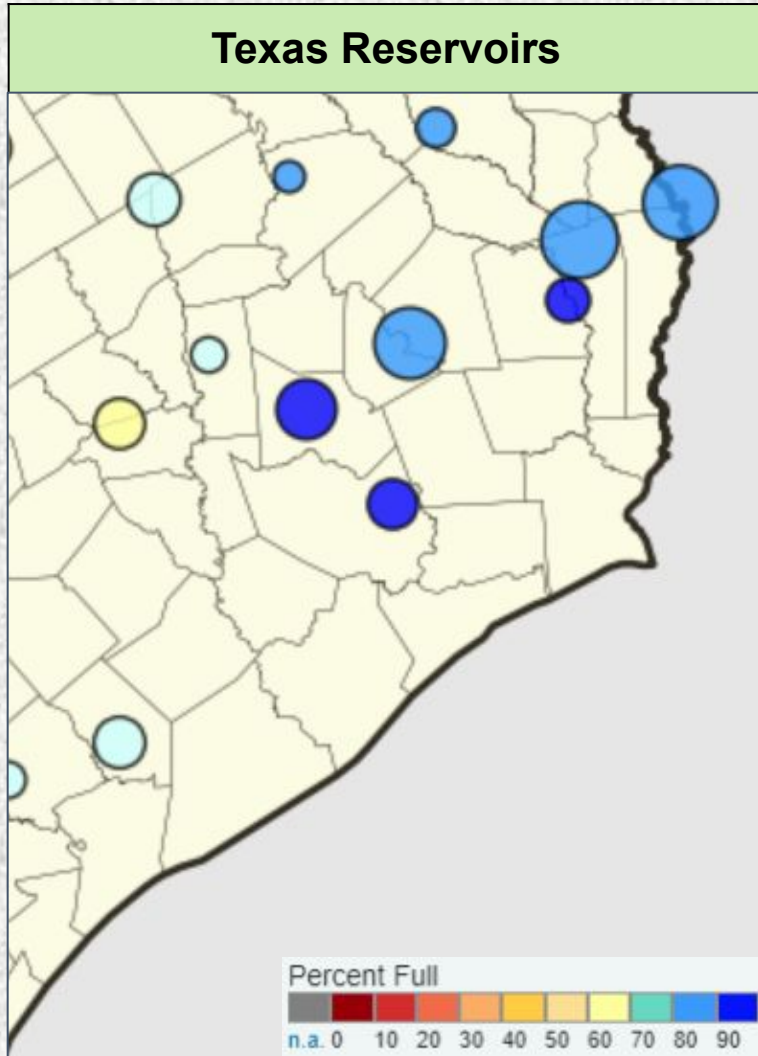




# Soil Moisture Anomaly



# Reservoir Status



Reservoir	Percent Full Conservation Storage
Houston County Lake	85.9%
Lake Livingston	99.2%
Lake Conroe	96.9%
Lake Houston	100.0%
Gibbons Creek Reservoir	72.0%
Lake Somerville	63.0%
Lake Texana	69.4%

Data added on: November 8, 2023 at 12:30 pm CST

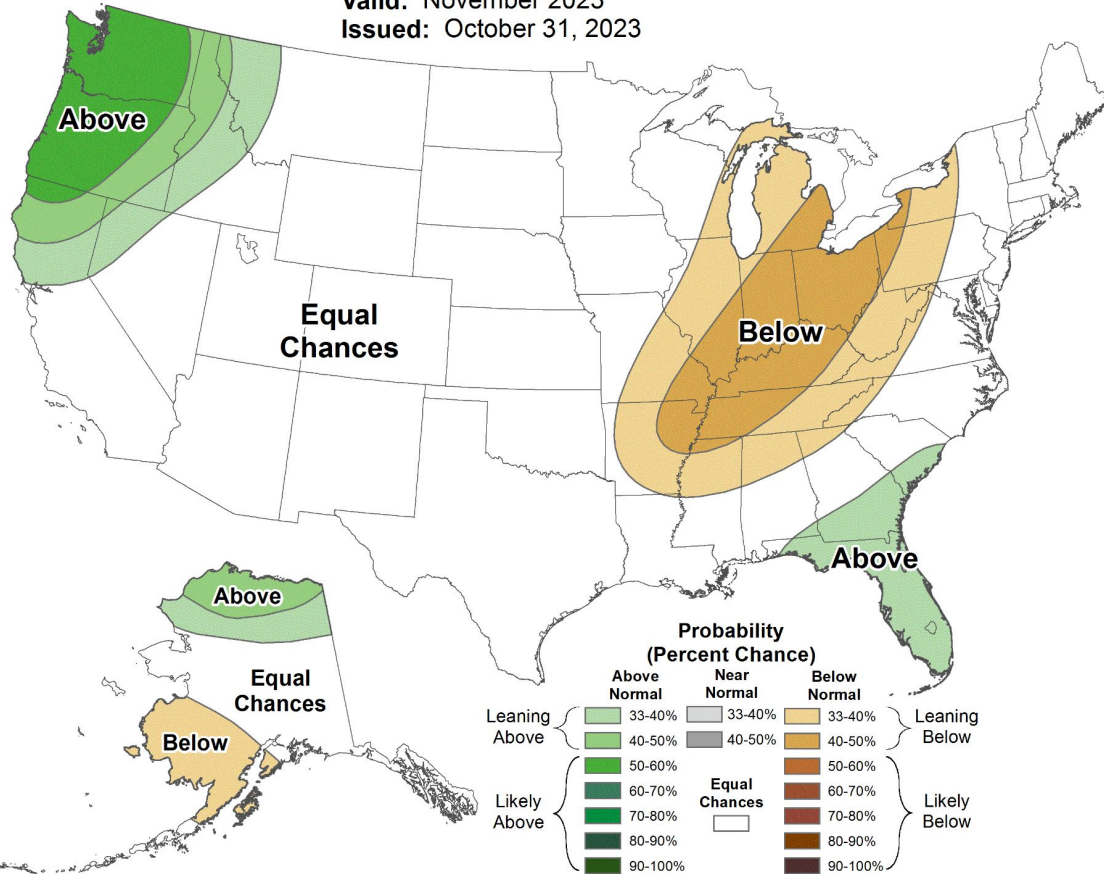
# Precipitation Outlooks



## Monthly Precipitation Outlook



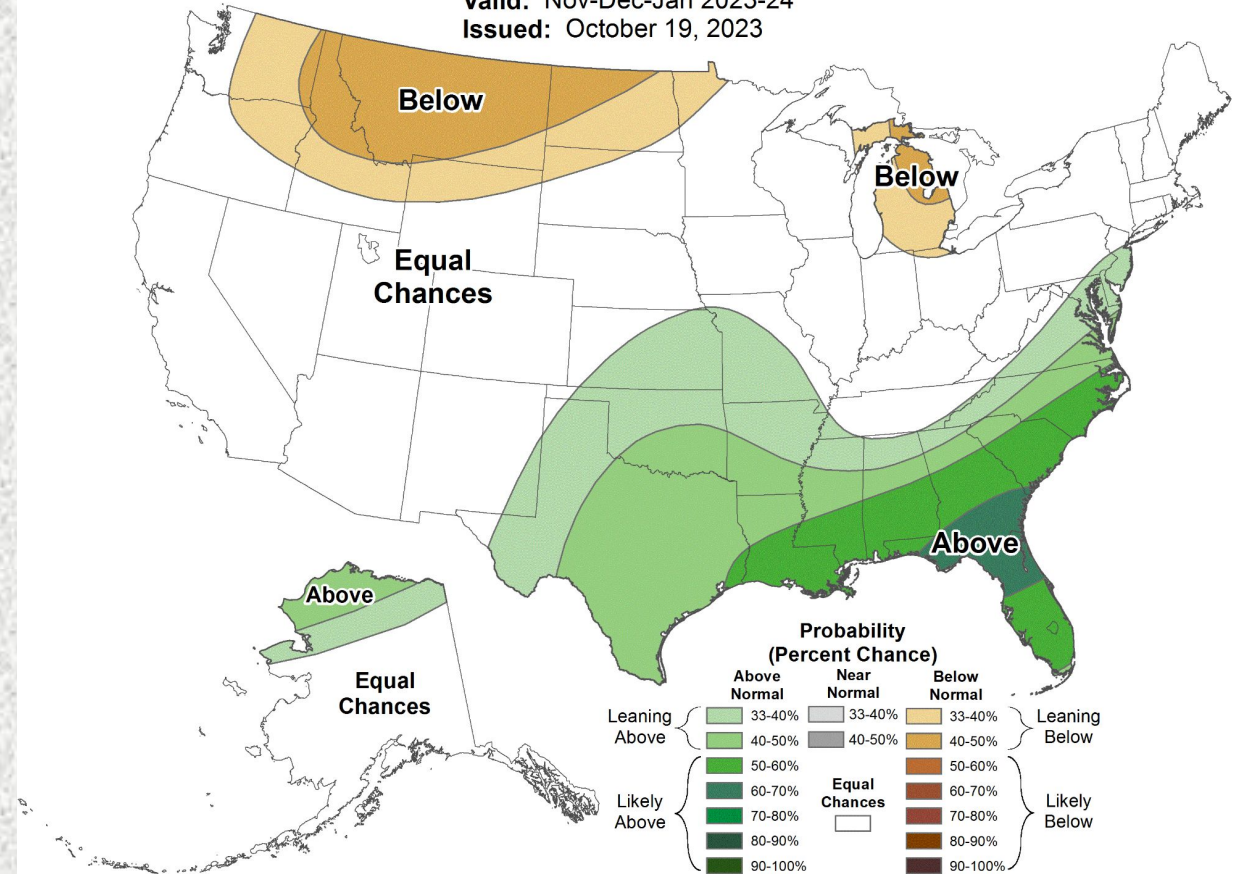
Valid: November 2023  
Issued: October 31, 2023



## Seasonal Precipitation Outlook



Valid: Nov-Dec-Jan 2023-24  
Issued: October 19, 2023



# Flood Products Issued

Product	Number Issued
Flash Flood Watch (FFA)	2 (ETN: 004-005)
Flash Flood Warning (FFW)	1 (ETN: 016)
Flash Flood Statement (FFS)	1 (ETN: 016)
Areal Flood Warning	0
River Flood Warnings (FLW)	0
River Flood Statements	0
Flood Advisories (FLS)	12 (ETN: 092-103)
Probabilistic Hydrologic Outlook (ESF)	6