

NWS Houston/Galveston Monthly Hydrologic Report September 2023

Produced by: Cameron Batiste

Date: 10/06/2023

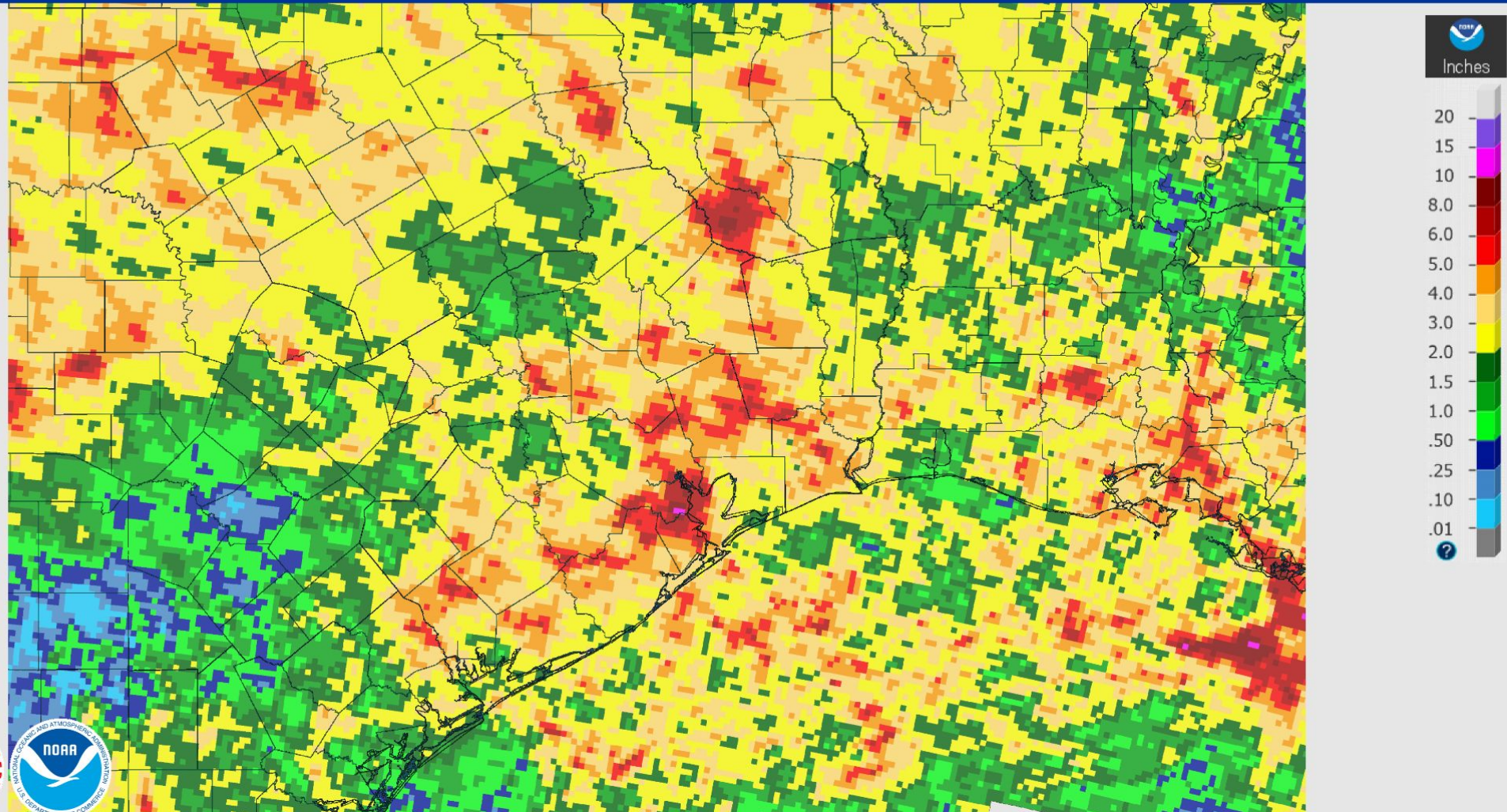
The month of September started with most of Southeast Texas in an extreme drought, which spread to an exceptional drought for most of the region by the middle of the month. Fortunately, mid-September is when meaningful rain finally started to fall and we've seen gradual improvement in the second half of the month. All of Southeast Texas remains in an extreme to exceptional drought, but there is less exceptional drought now than there was a couple of weeks ago.

Monthly Precipitation

September 01, 2023 Monthly Observed Precipitation

Created on: October 02, 2023 - 14:52 UTC

Valid on: October 01, 2023 12:00 UTC

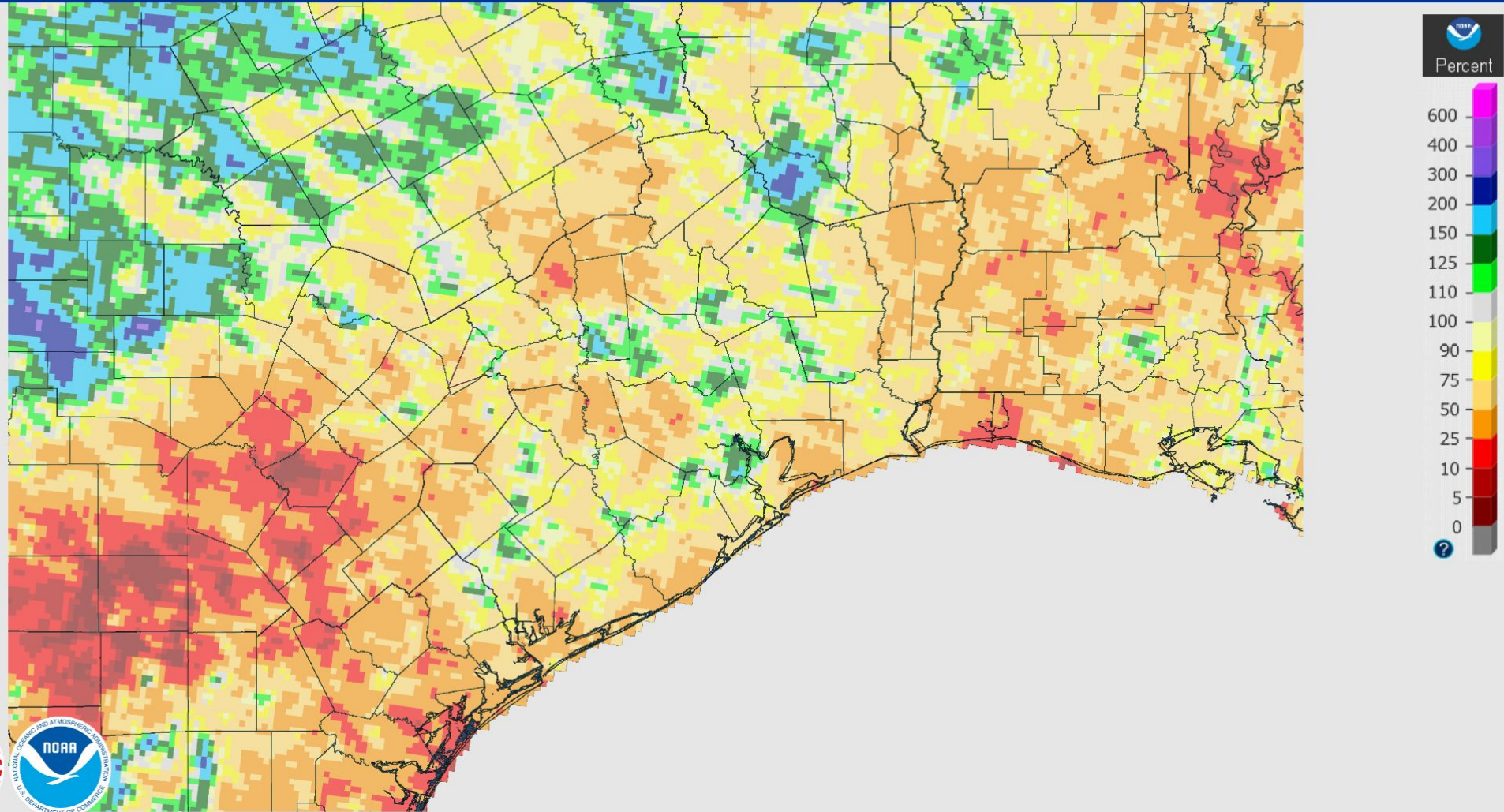


Monthly Percent of Normal Precipitation

September 01, 2023 Monthly Percent Precipitation

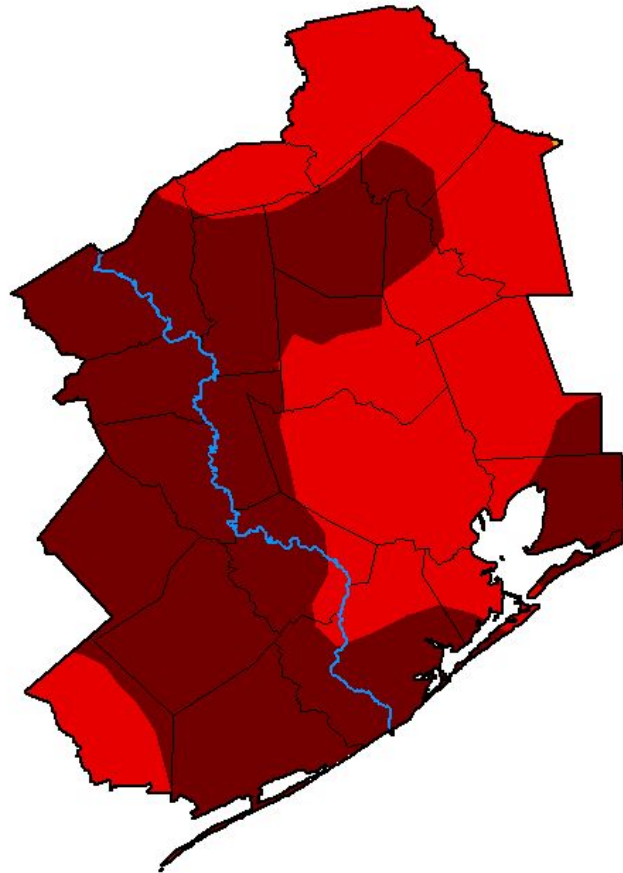
Created on: October 02, 2023 - 14:53 UTC

Valid on: October 01, 2023 12:00 UTC



U.S. Drought Monitor

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



September 26, 2023
(Released Thursday, Sep. 28, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	100.00	100.00	99.98	55.82
Last Week 09-19-2023	0.00	100.00	100.00	100.00	100.00	69.40
3 Months Ago 06-27-2023	54.29	45.71	0.00	0.00	0.00	0.00
Start of Calendar Year 01-03-2023	84.11	15.89	6.96	0.00	0.00	0.00
Start of Water Year 09-27-2022	32.19	67.81	21.97	4.76	0.83	0.00
One Year Ago 09-27-2022	32.19	67.81	21.97	4.76	0.83	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:

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NCEI/NOAA



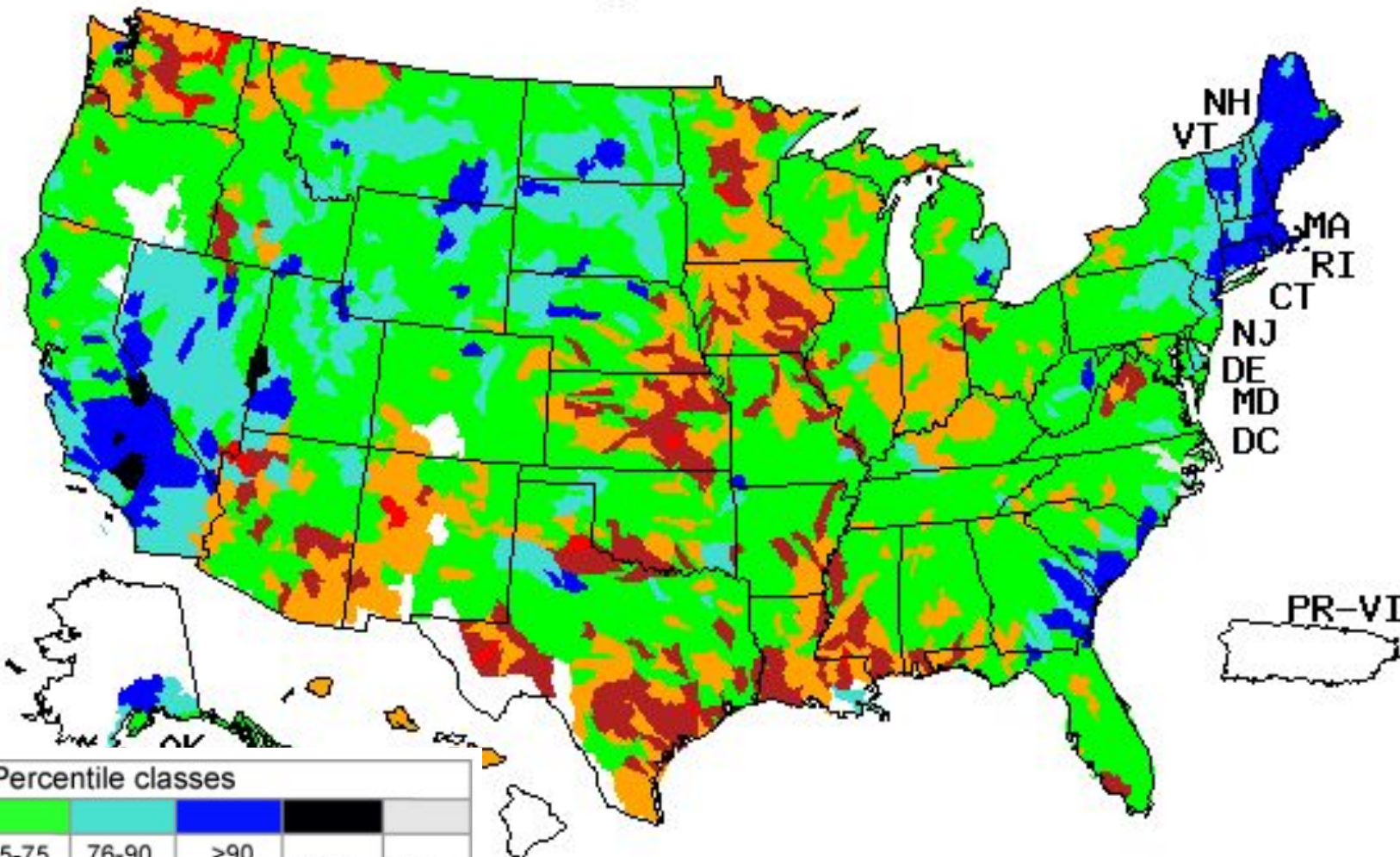
droughtmonitor.unl.edu

River Flooding

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

Monthly Average Streamflow

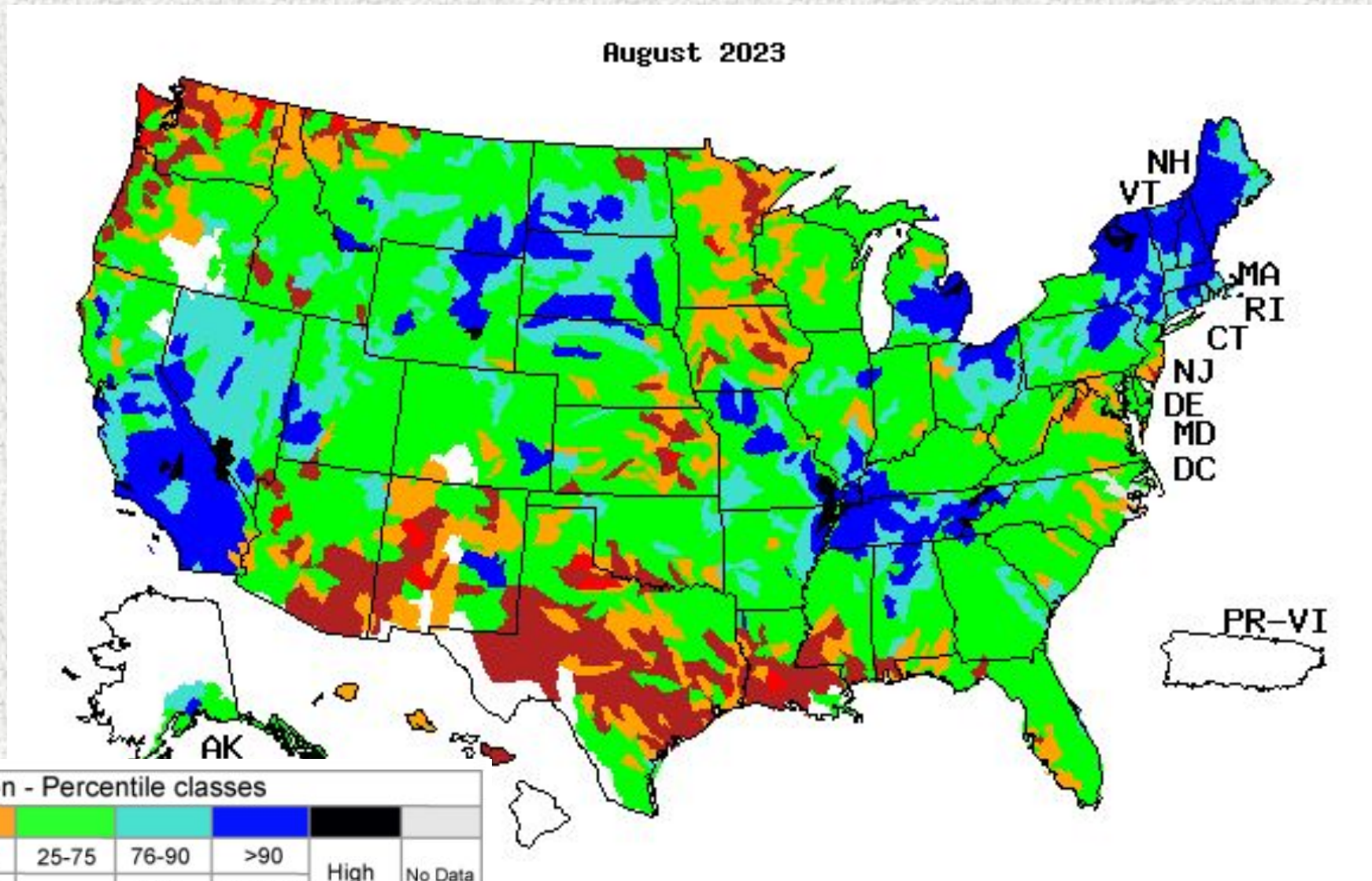
September 2023



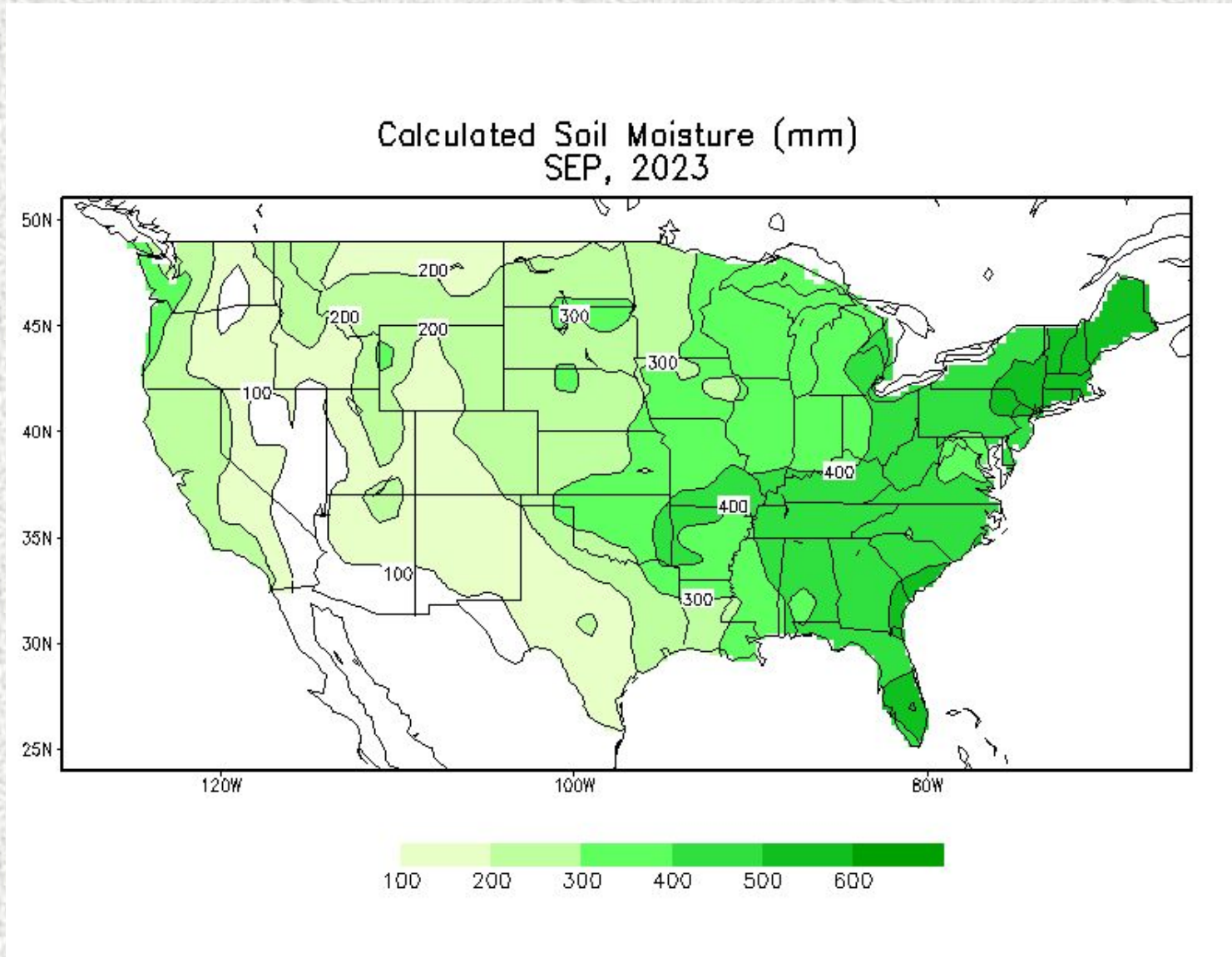
Explanation - Percentile classes

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

Previous Monthly Average Streamflow

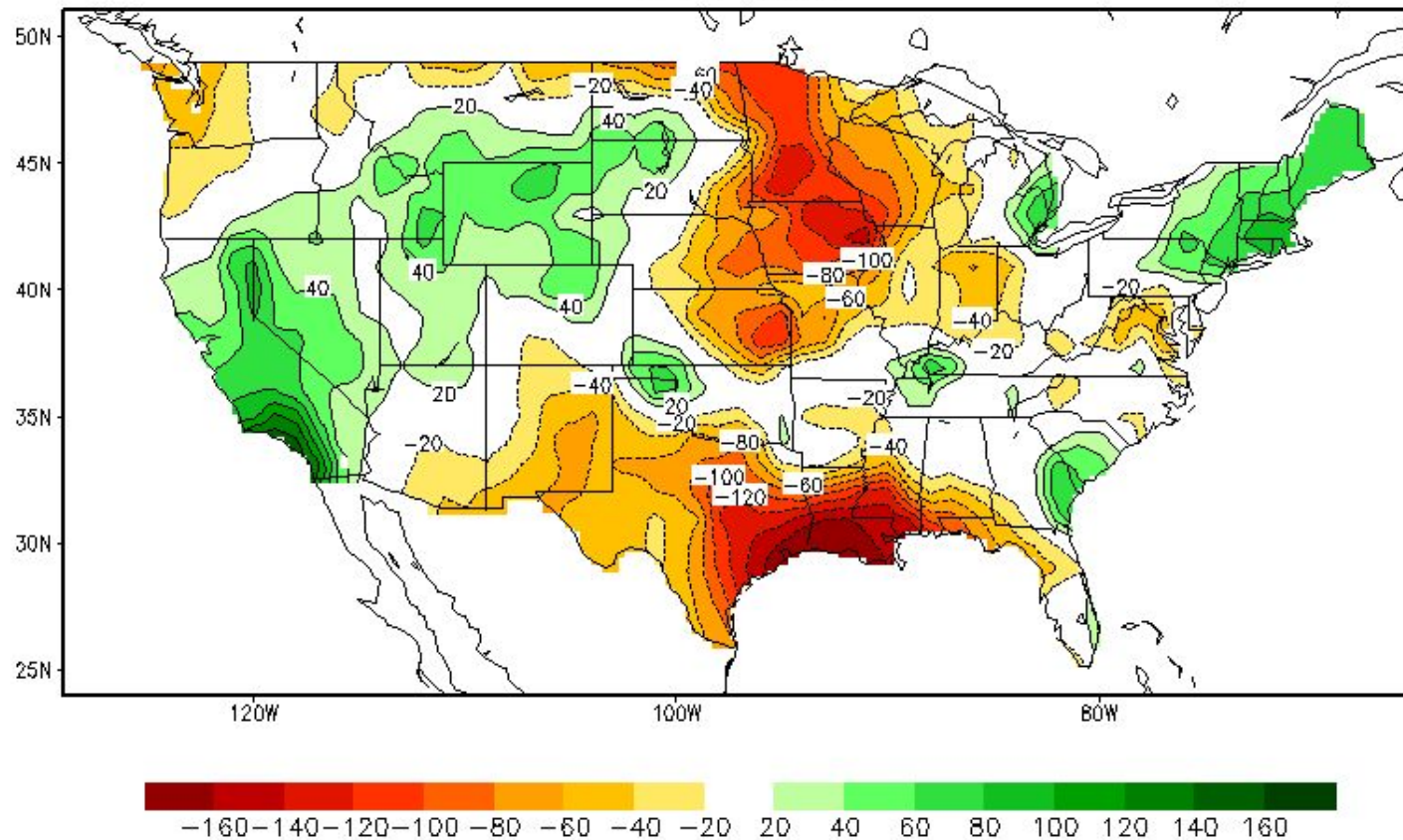


Soil Moisture

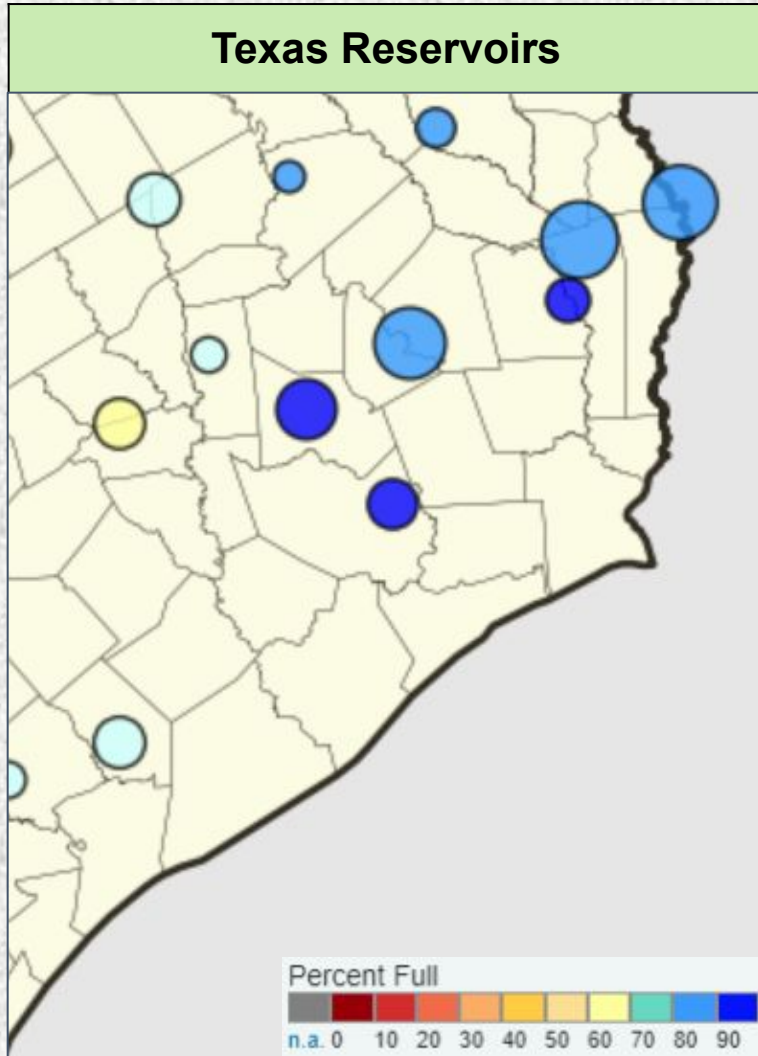


Soil Moisture Anomaly

Calculated Soil Moisture Anomaly (mm)
SEP, 2023



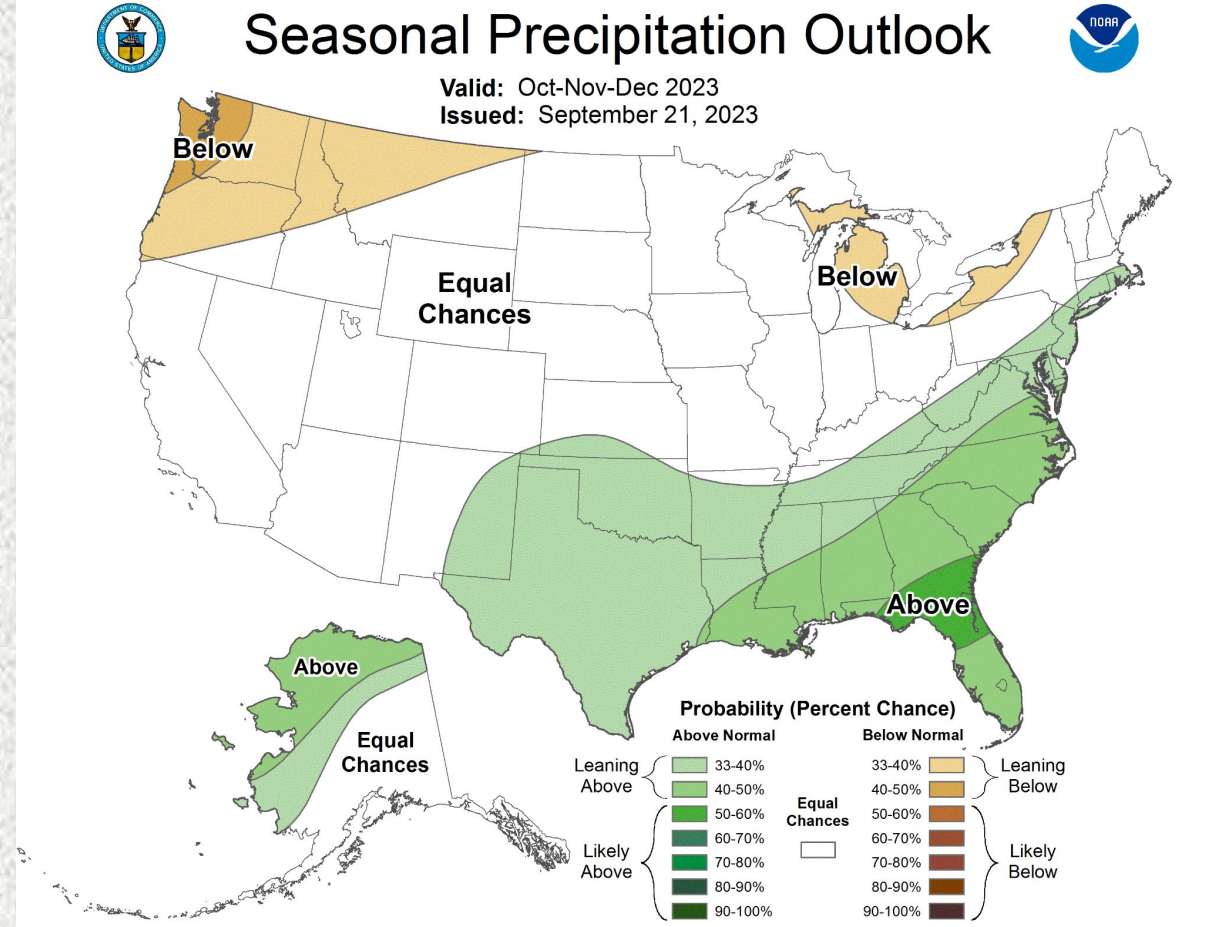
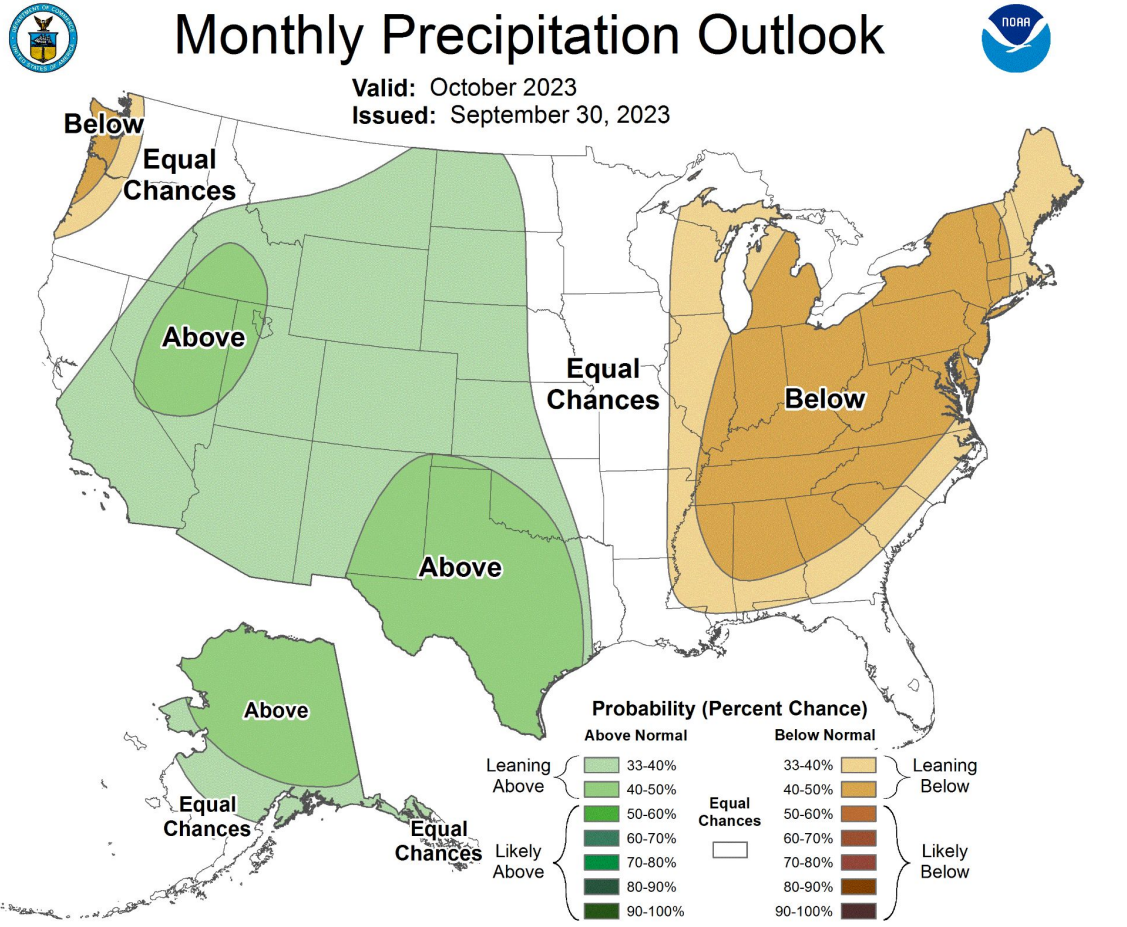
Reservoir Status



Reservoir	Percent Full Conservation Storage
Houston County Lake	84.9%
Lake Livingston	82.9%
Lake Conroe	93.9%
Lake Houston	100.0%
Gibbons Creek Reservoir	73.4%
Lake Somerville	64.9%
Lake Texana	72.2%

Data added on: October 6, 2023 at 7:30 pm CDT

Precipitation Outlooks



Flood Products Issued

Product	Number Issued
Flash Flood Watch (FFA)	0
Flash Flood Warning (FFW)	1 (ETN: 015)
Flash Flood Statement (FFS)	1 (ETN: 015)
Areal Flood Warning	0
River Flood Warnings (FLW)	0
River Flood Statements	0
Flood Advisories (FLS)	6 (ETN: 086-091)
Probabilistic Hydrologic Outlook (ESF)	6