

NWS Houston/Galveston Monthly Hydrologic Report August 2023

Produced by: Cameron Batiste

Date: 09/03/2023

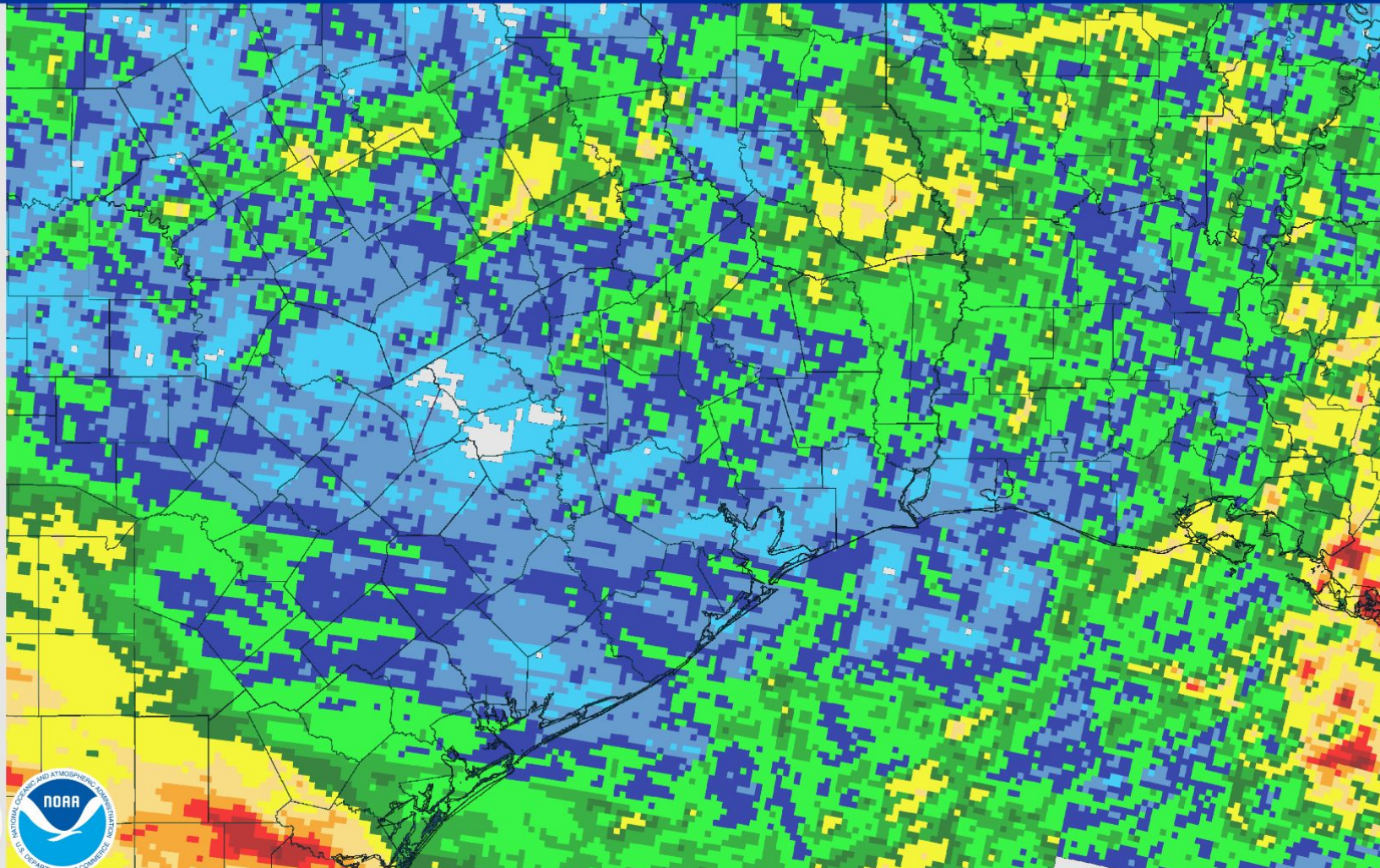
August 2023 was certainly a historic month as it was the hottest August on record for ALL of our climatological sites. This extended period of hot and dry conditions lead to the expansion and worsening of drought conditions across Southeast Texas with Extreme Drought (D3) being the baseline for the area. Coastal and eastern locations are in an Exceptional Drought (D4), which is the highest category in the Drought Monitor. Additionally, we've seen multiple wildfires develop over the month due to critically dry soils/fuels combined with the prolonged periods of hot and dry conditions.

Monthly Precipitation

August 01, 2023 Monthly Observed Precipitation

Created on: September 03, 2023 - 13:51 UTC

Valid on: September 01, 2023 12:00 UTC

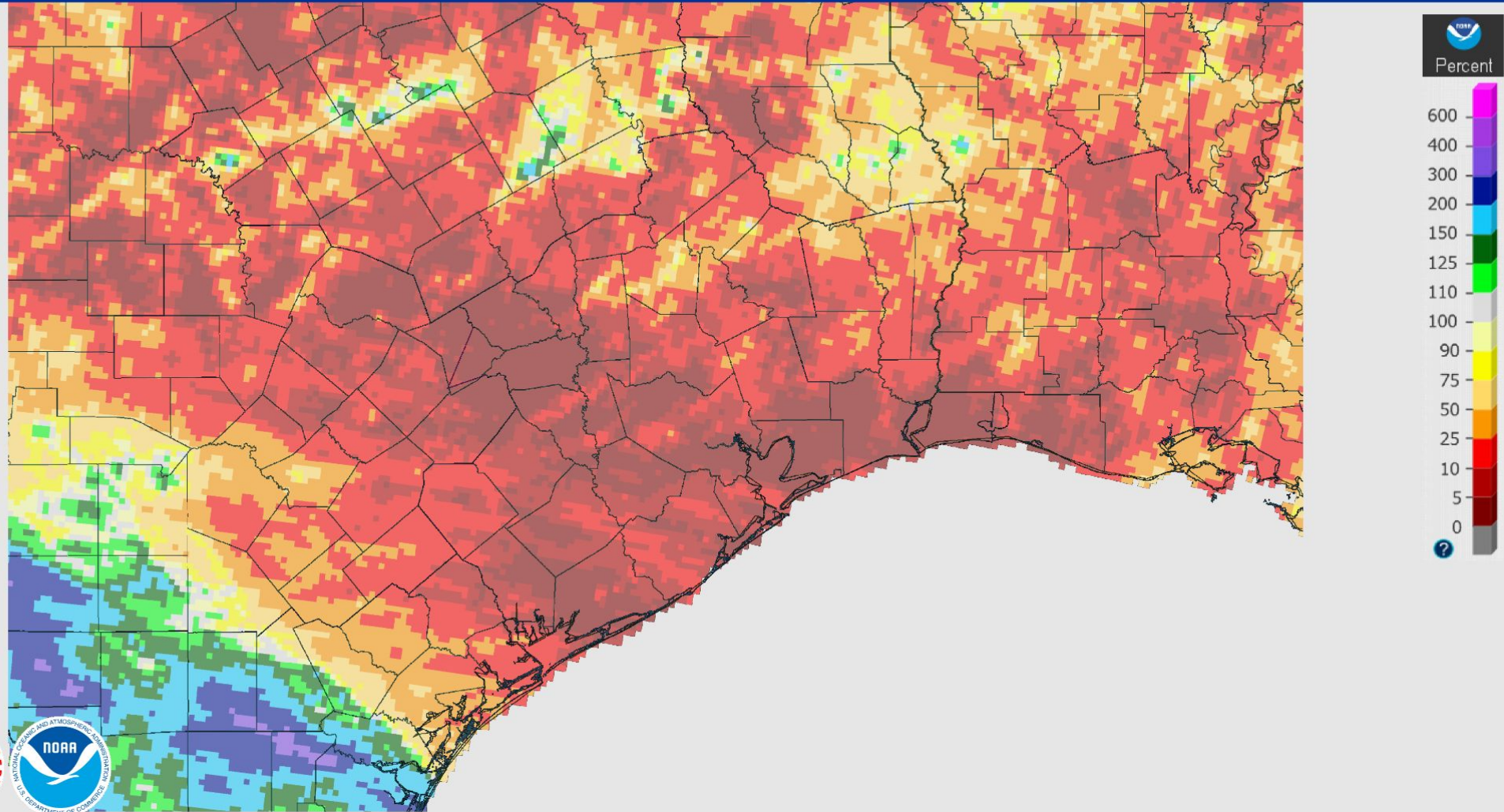


Monthly Percent of Normal Precipitation

August 01, 2023 Monthly Percent Precipitation

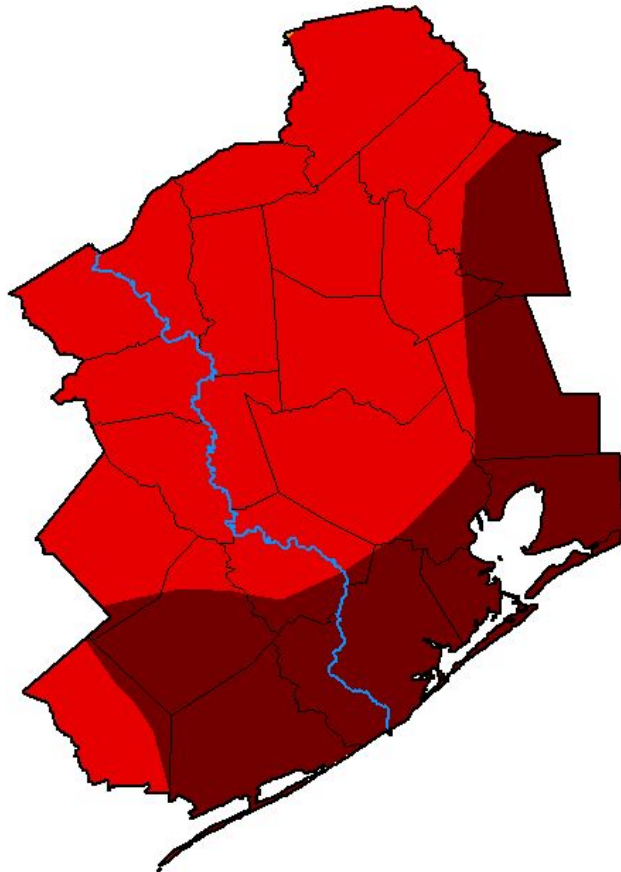
Created on: September 03, 2023 - 13:58 UTC

Valid on: September 01, 2023 12:00 UTC



U.S. Drought Monitor

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



August 29, 2023

(Released Thursday, Aug. 31, 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	99.99	35.28
Last Week 08-22-2023	0.00	100.00	100.00	100.00	99.99	17.18
3 Months Ago 05-30-2023	100.00	0.00	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 08-30-2022	1.18	98.82	74.24	27.76	8.86	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>

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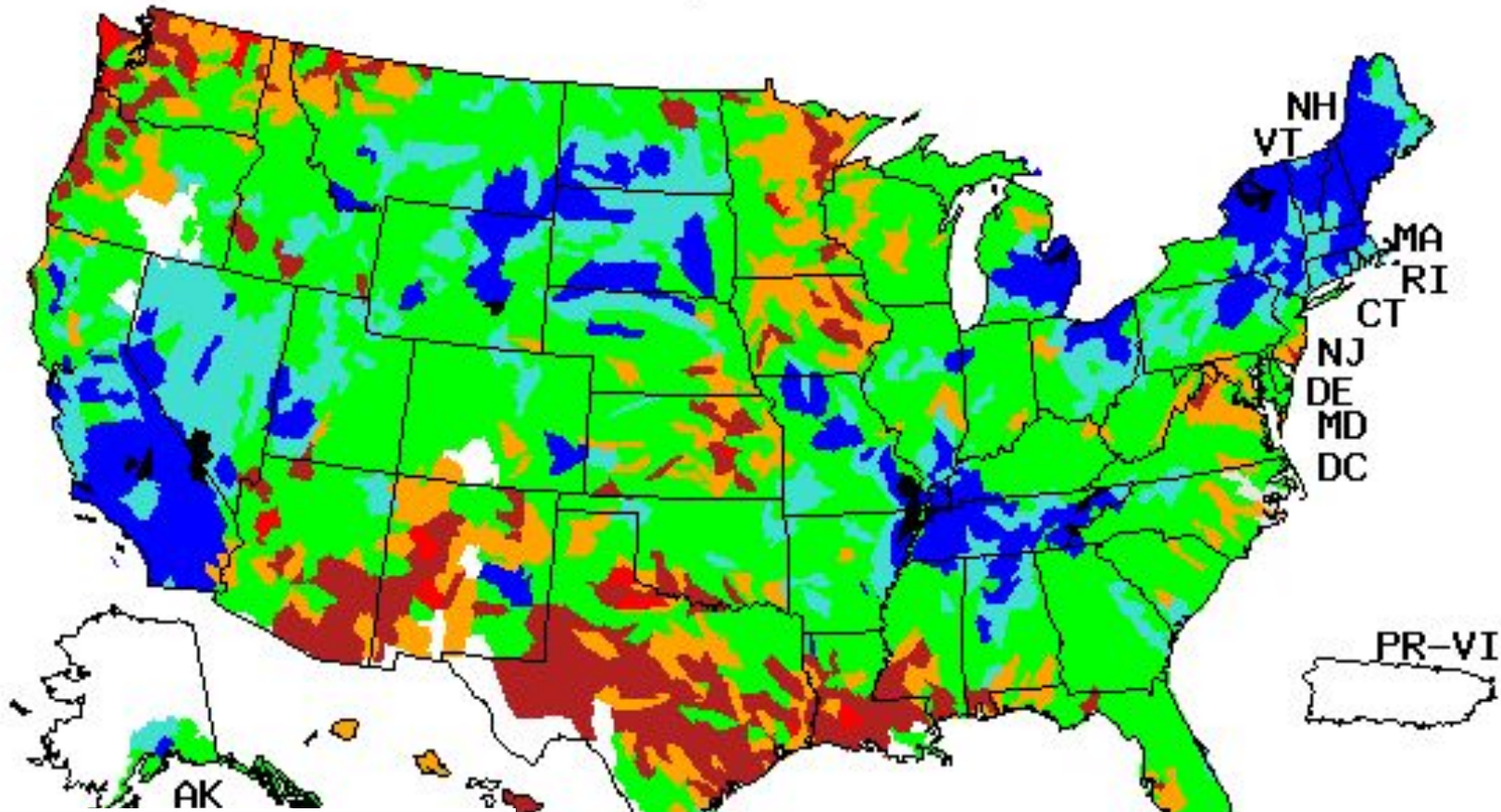
droughtmonitor.unl.edu

River Flooding

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

Monthly Average Streamflow

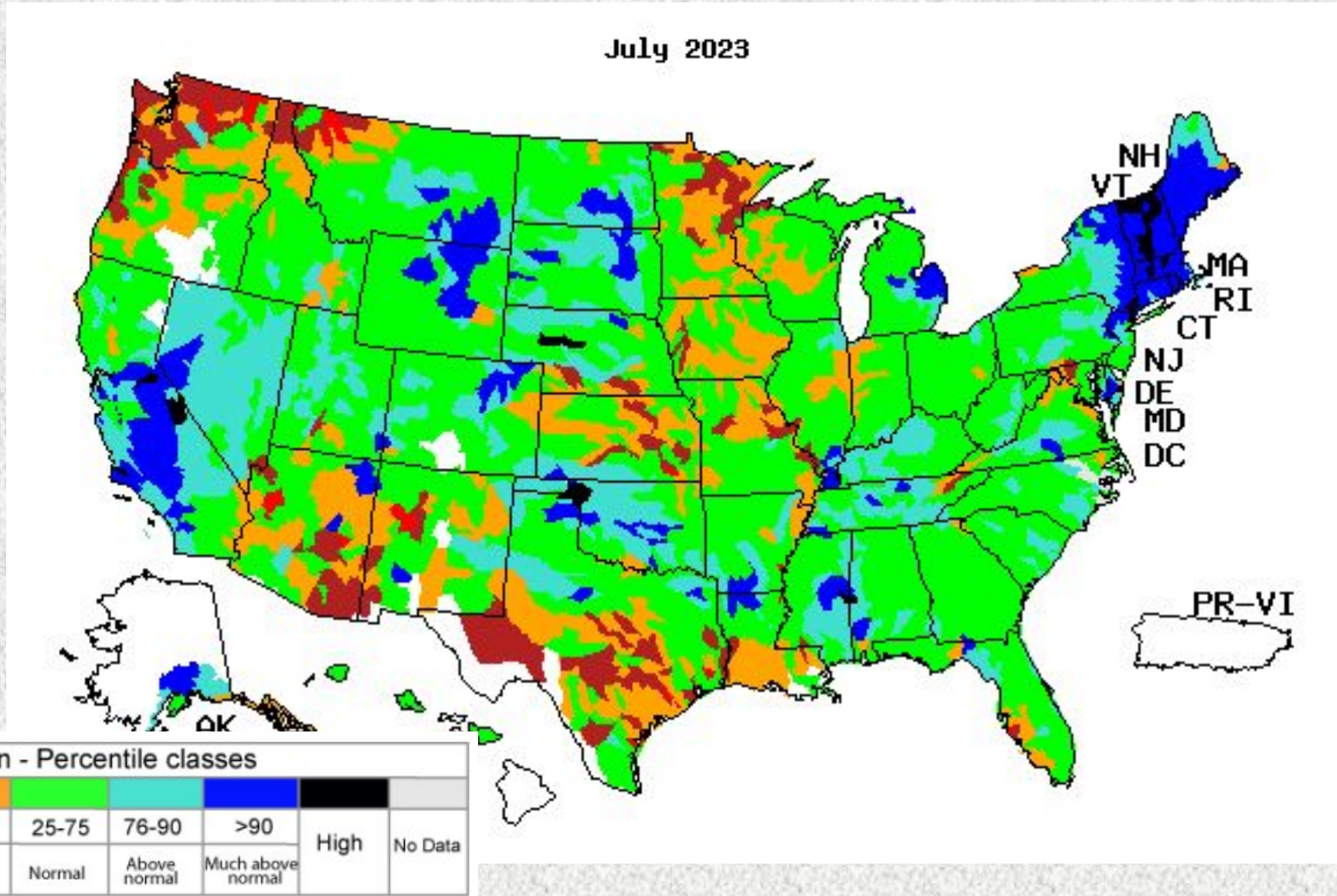
August 2023



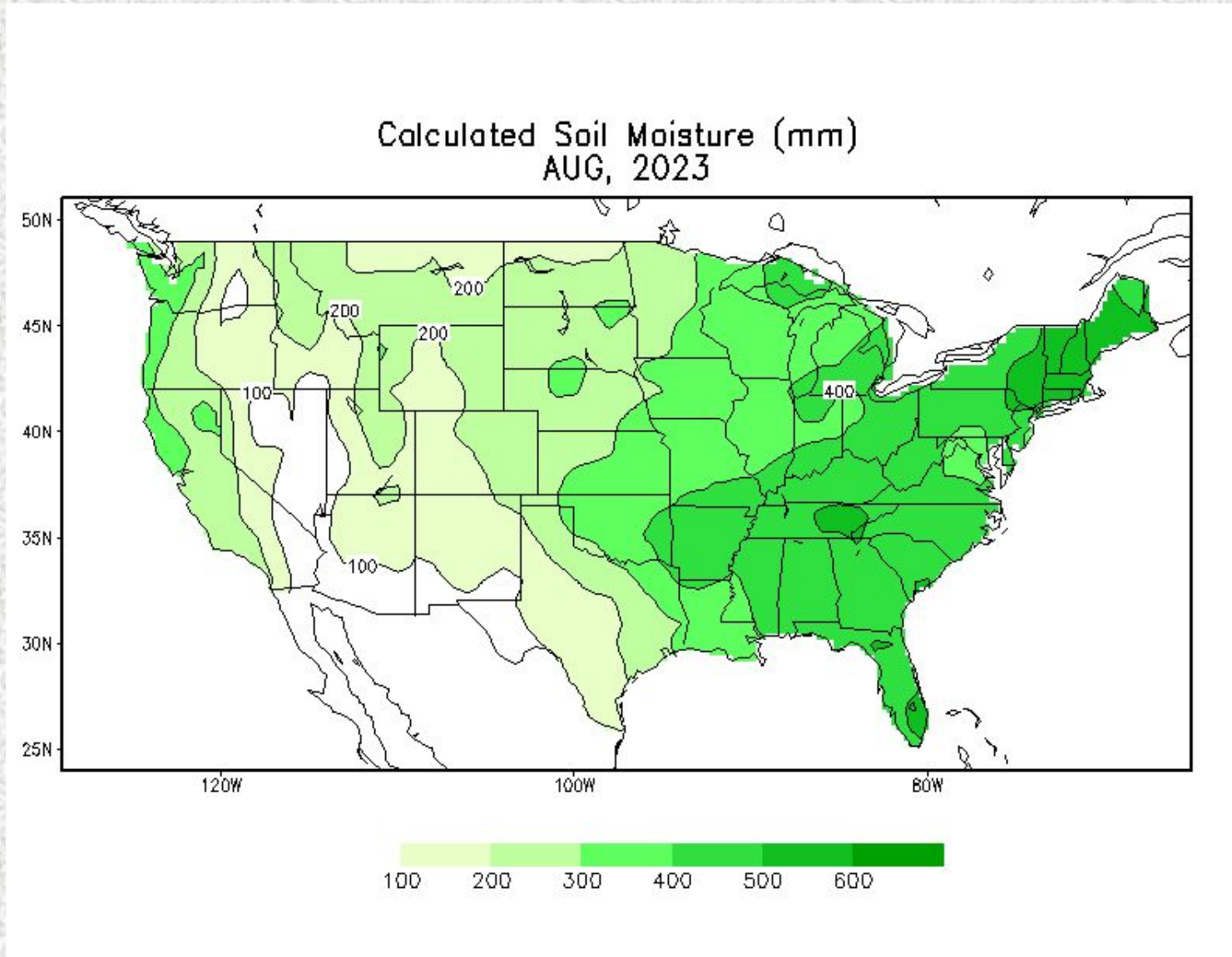
Explanation - Percentile classes

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

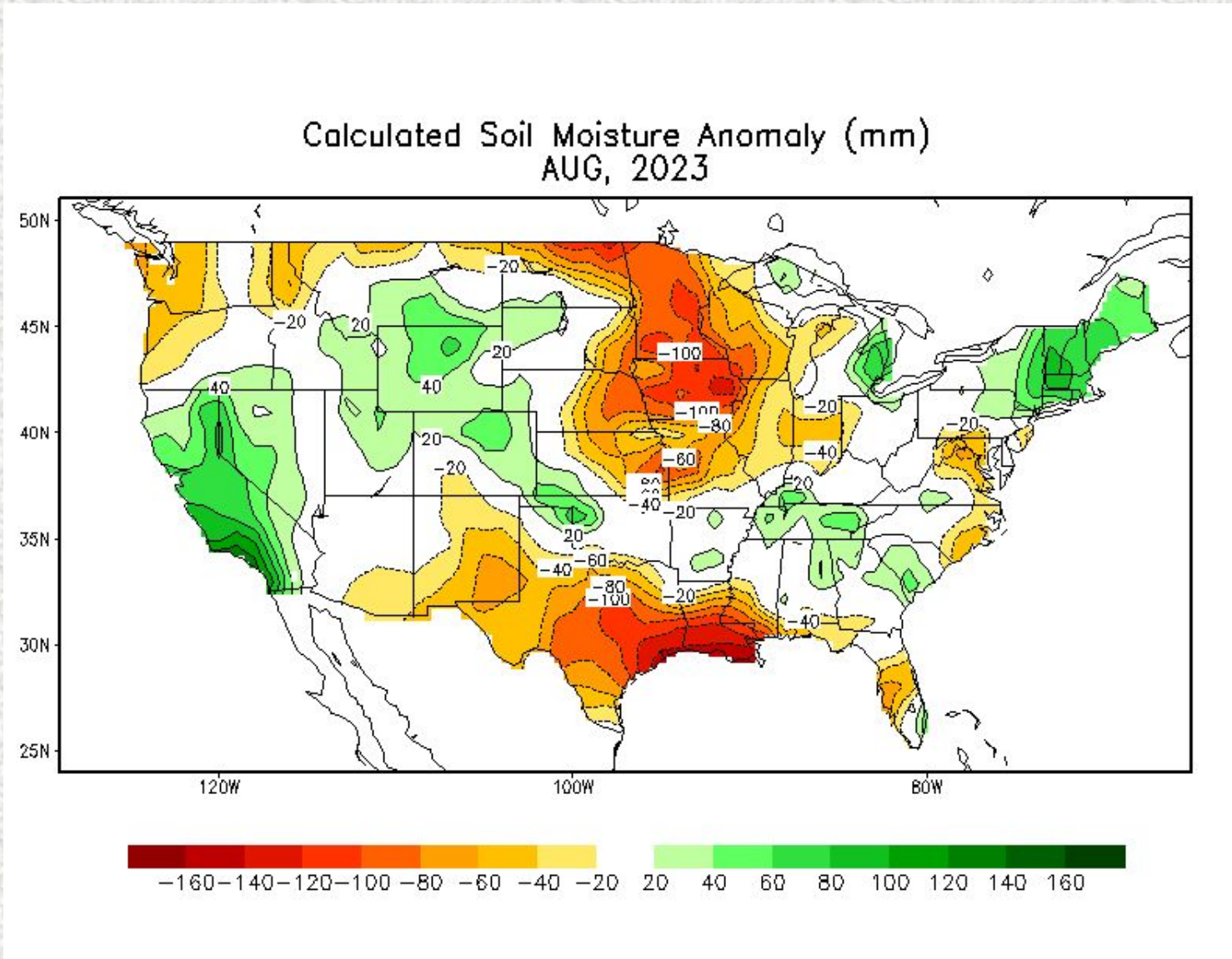
Previous Monthly Average Streamflow



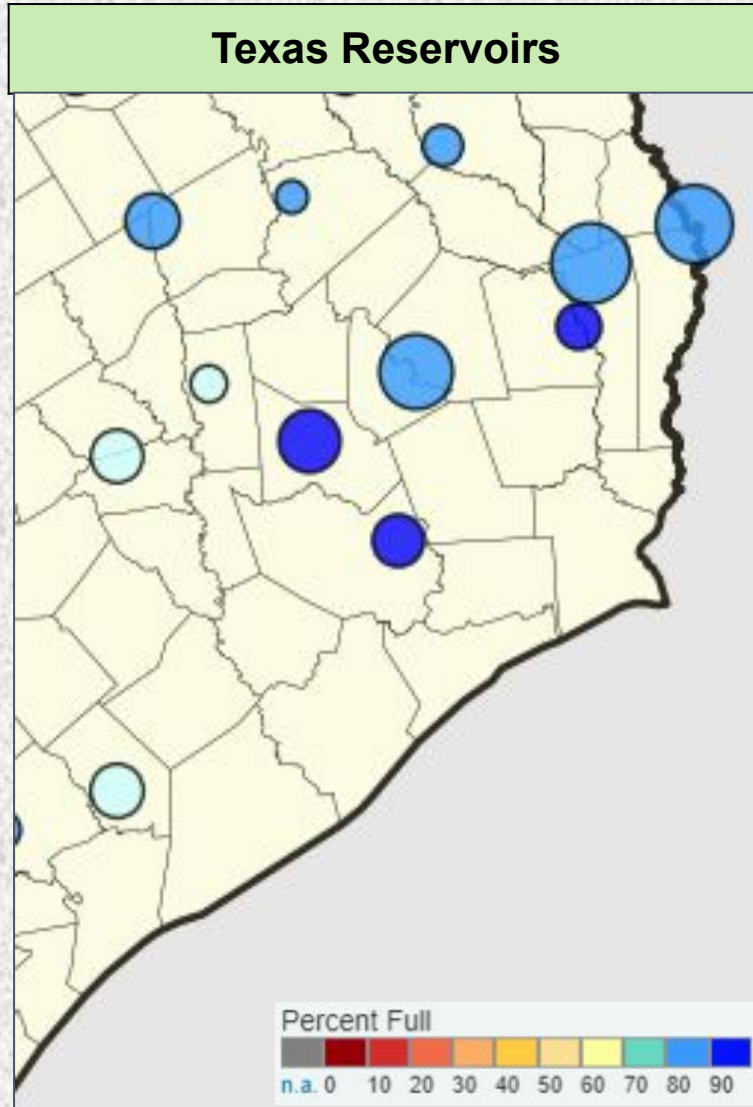
Soil Moisture



Soil Moisture Anomaly



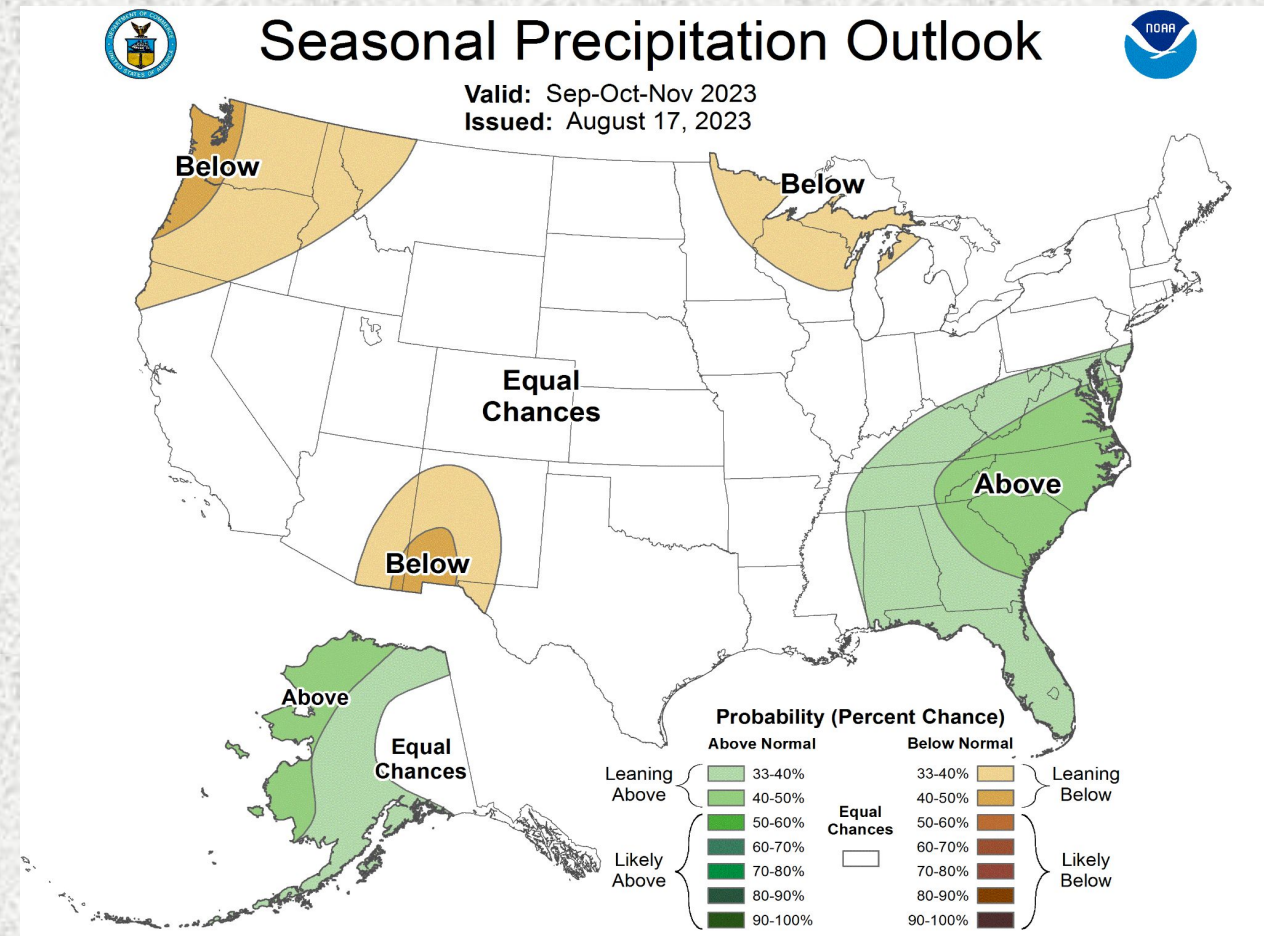
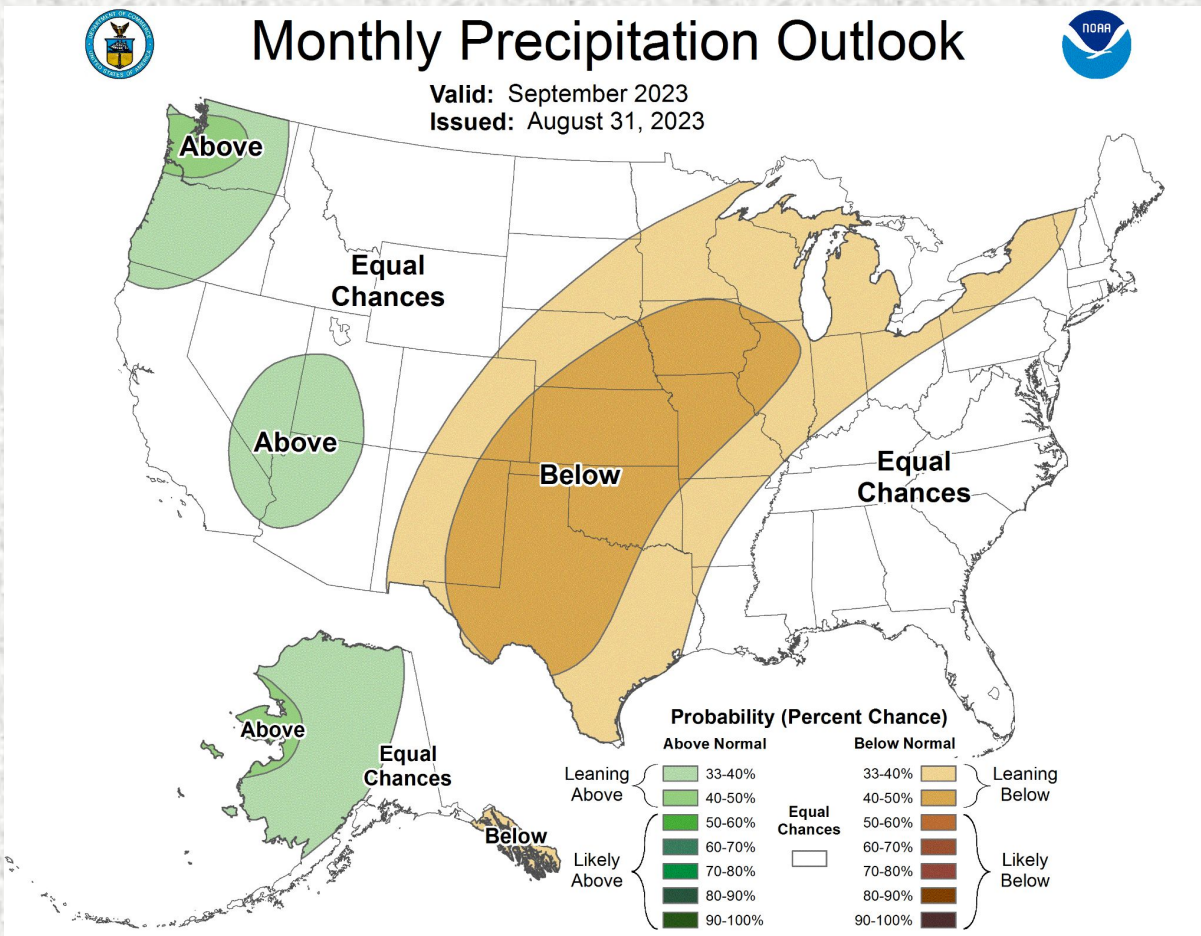
Reservoir Status



Reservoir	Percent Full Conservation Storage
Houston County Lake	85.7%
Lake Livingston	85.8%
Lake Conroe	91.2%
Lake Houston	95.9%
Gibbons Creek Reservoir	76.3%
Lake Somerville	71.6%
Lake Texana	74.2%

Data added on: September 3, 2023 at 9:00 am CDT

Precipitation Outlooks



Flood Products Issued

Product	Number Issued
Flash Flood Watch (FFA)	0
Flash Flood Warning (FFW)	0
Flash Flood Statement (FFS)	0
Areal Flood Warning	0
River Flood Warnings (FLW)	0
River Flood Statements	0
Flood Advisories (FLS)	0
Probabilistic Hydrologic Outlook (ESF)	6