

# NWS Houston/Galveston Monthly Hydrologic Report July 2023

**Produced by: Cameron Batiste**

**Date: 08/07/2023**

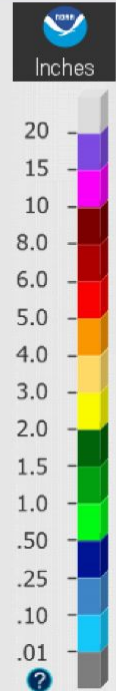
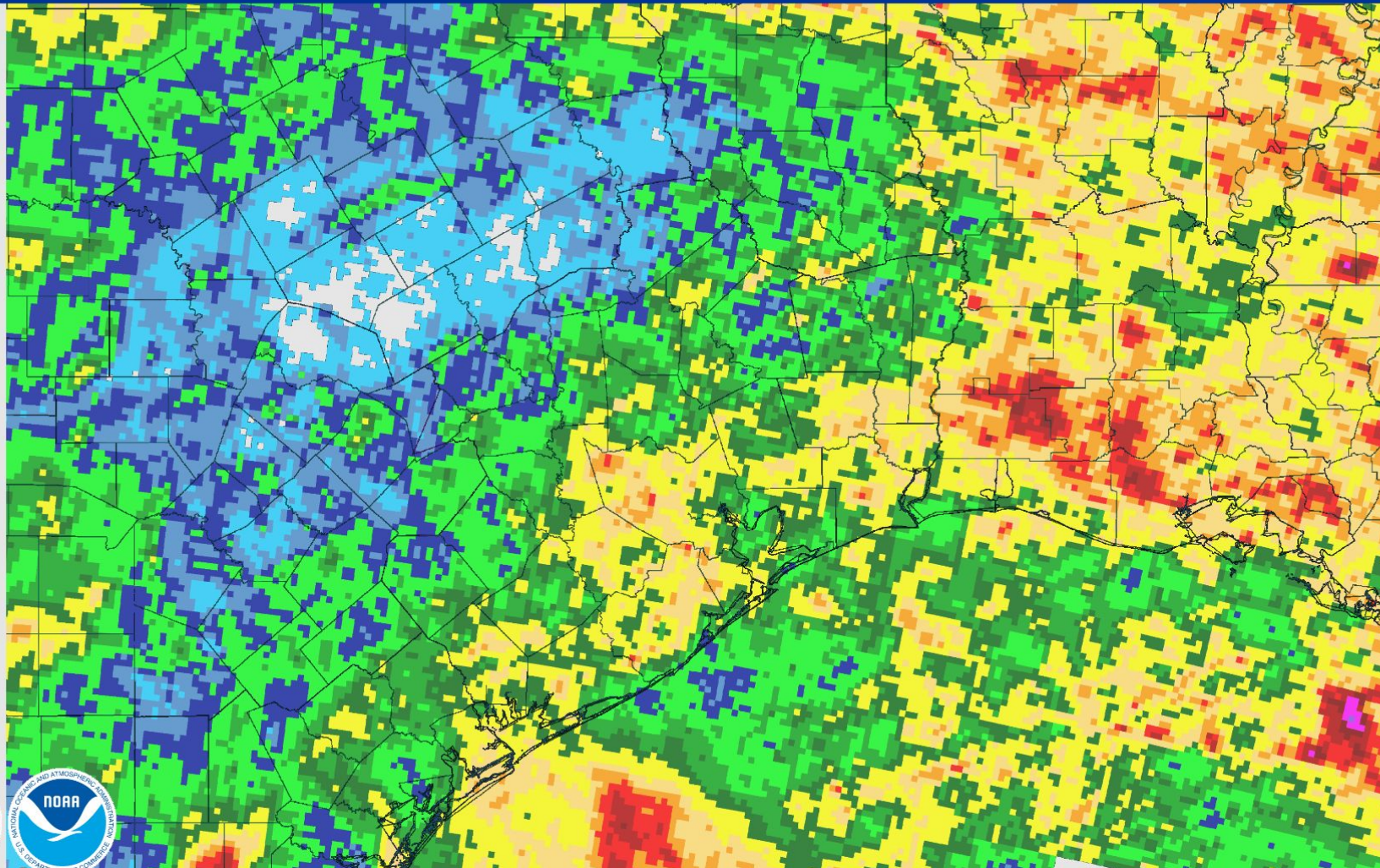
The month of July was marked by an extended period of hot and dry conditions that has led to worsening drought conditions across Southeast Texas. The most memorable rainfall event came in the first week of the month where heavy rain led to minor flooding around the Houston metro area. Since then, it's been essentially bone dry with most of the area below their normal monthly precipitation.

# Monthly Precipitation

## July 01, 2023 Monthly Observed Precipitation

Created on: August 07, 2023 - 08:22 UTC

Valid on: August 01, 2023 12:00 UTC

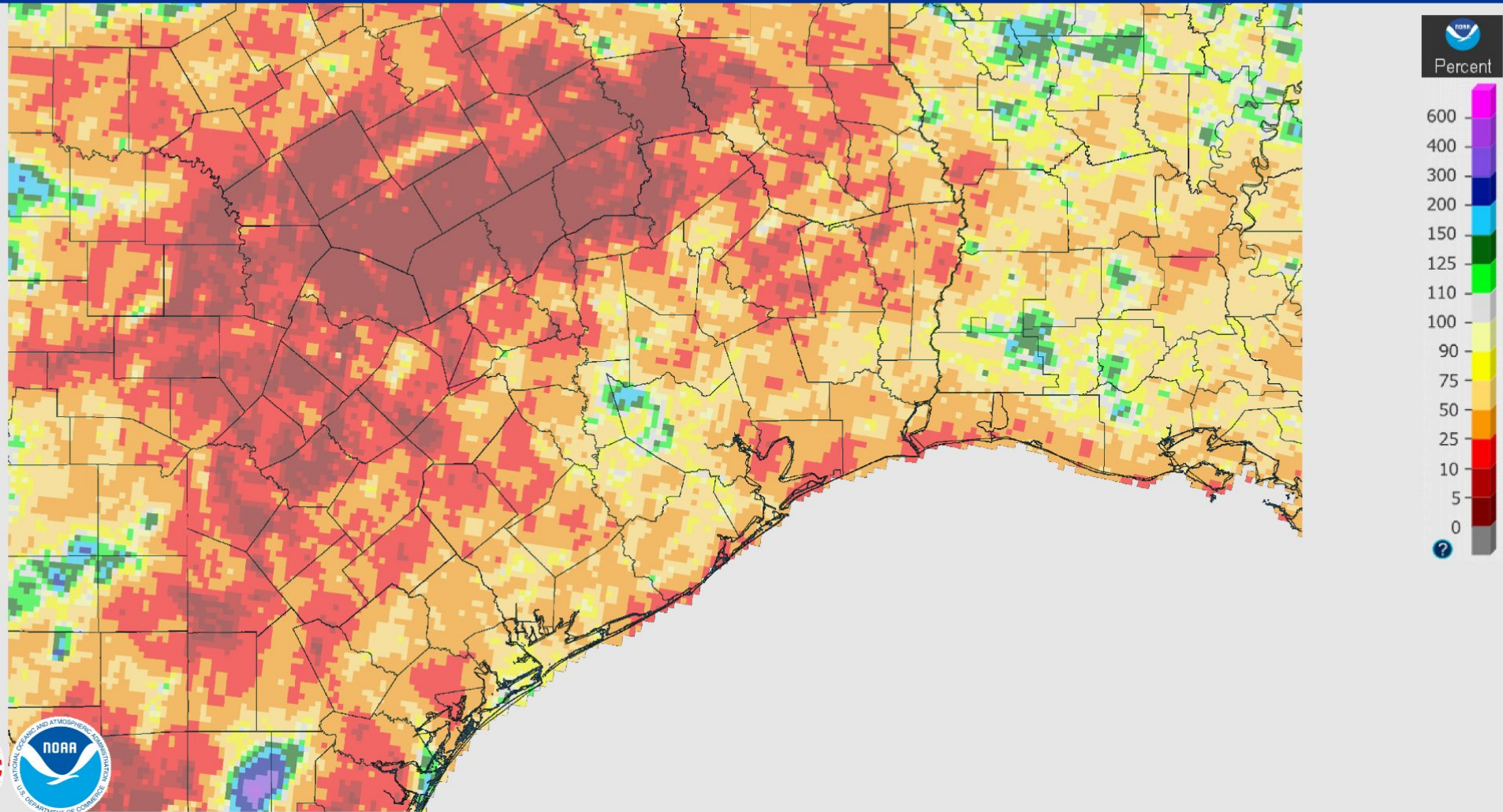


# Monthly Percent of Normal Precipitation

July 01, 2023 Monthly Percent Precipitation

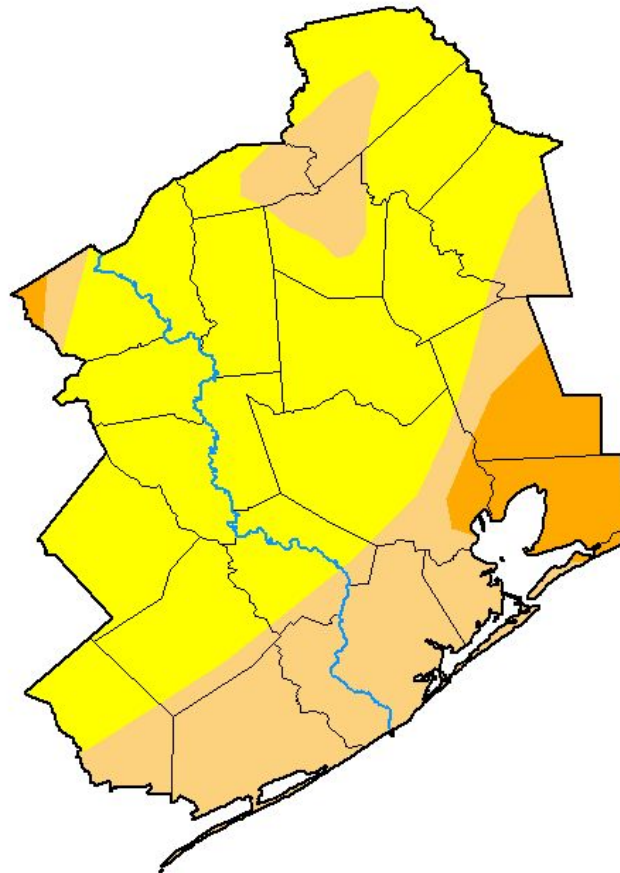
Created on: August 07, 2023 - 08:23 UTC

Valid on: August 01, 2023 12:00 UTC



# U.S. Drought Monitor

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



**July 25, 2023**

(Released Thursday, Jul. 27, 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	36.67	7.46	0.00	0.00
<b>Last Week</b> 07-18-2023	8.54	91.46	31.12	0.00	0.00	0.00
<b>3 Months Ago</b> 04-25-2023	72.96	27.04	14.33	3.86	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> 09-27-2022	32.19	67.81	21.97	4.76	0.83	0.00
<b>One Year Ago</b> 07-26-2022	0.00	100.00	100.00	87.90	50.58	2.04

Intensity:

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

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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National Drought Mitigation Center



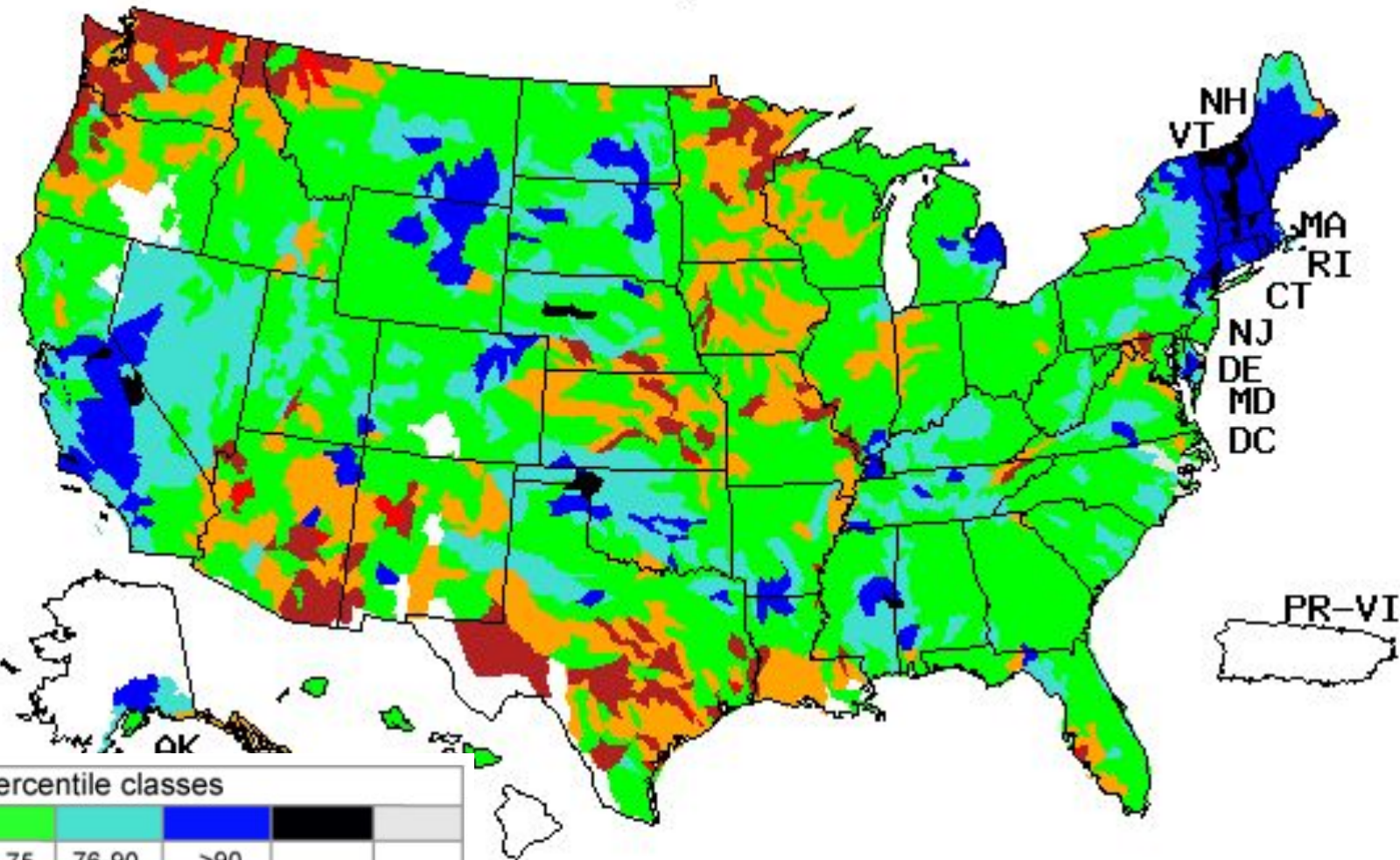
[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

# River Flooding

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

# Monthly Average Streamflow

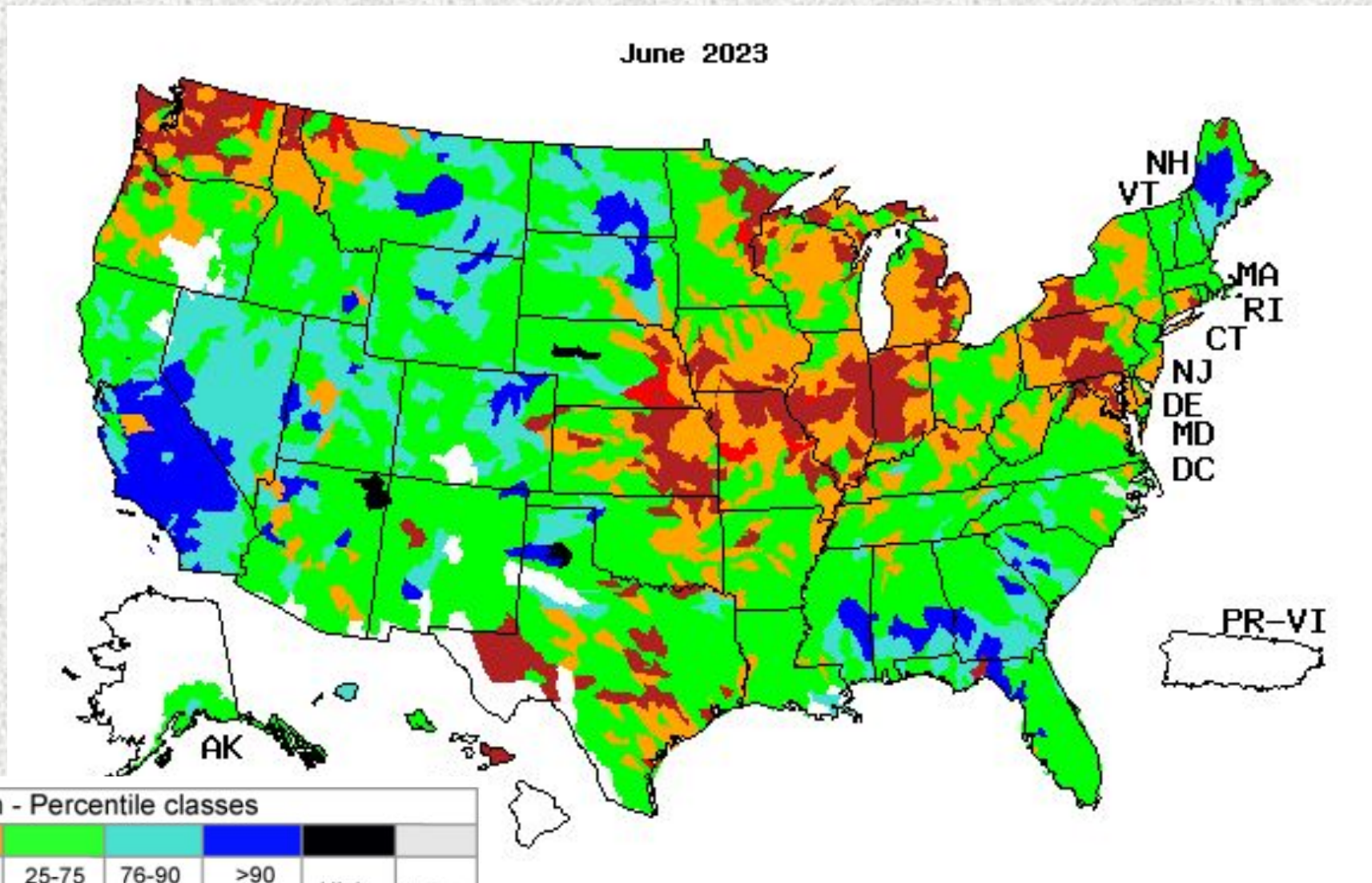
July 2023



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			

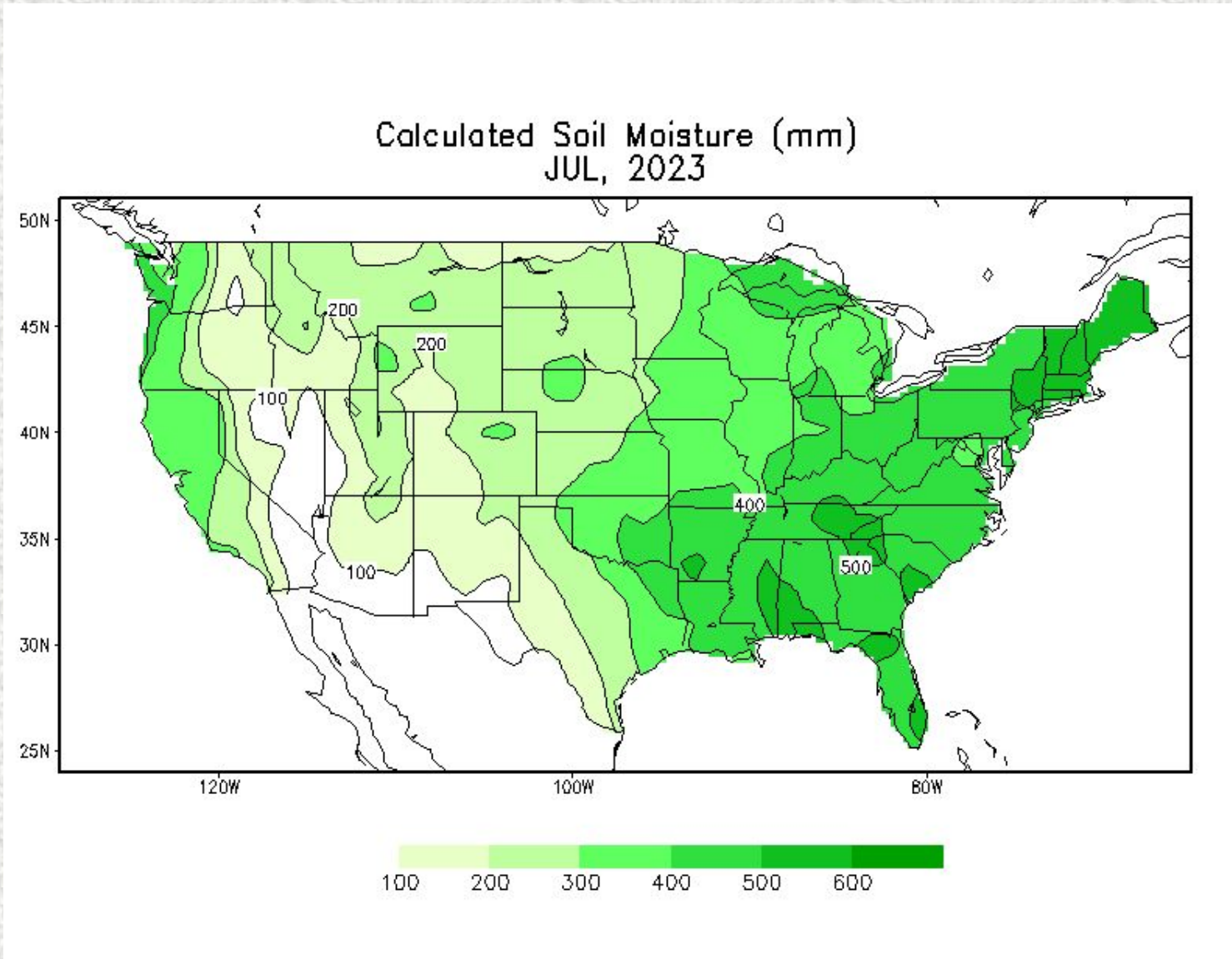
# Previous Monthly Average Streamflow



Explanation - Percentile classes

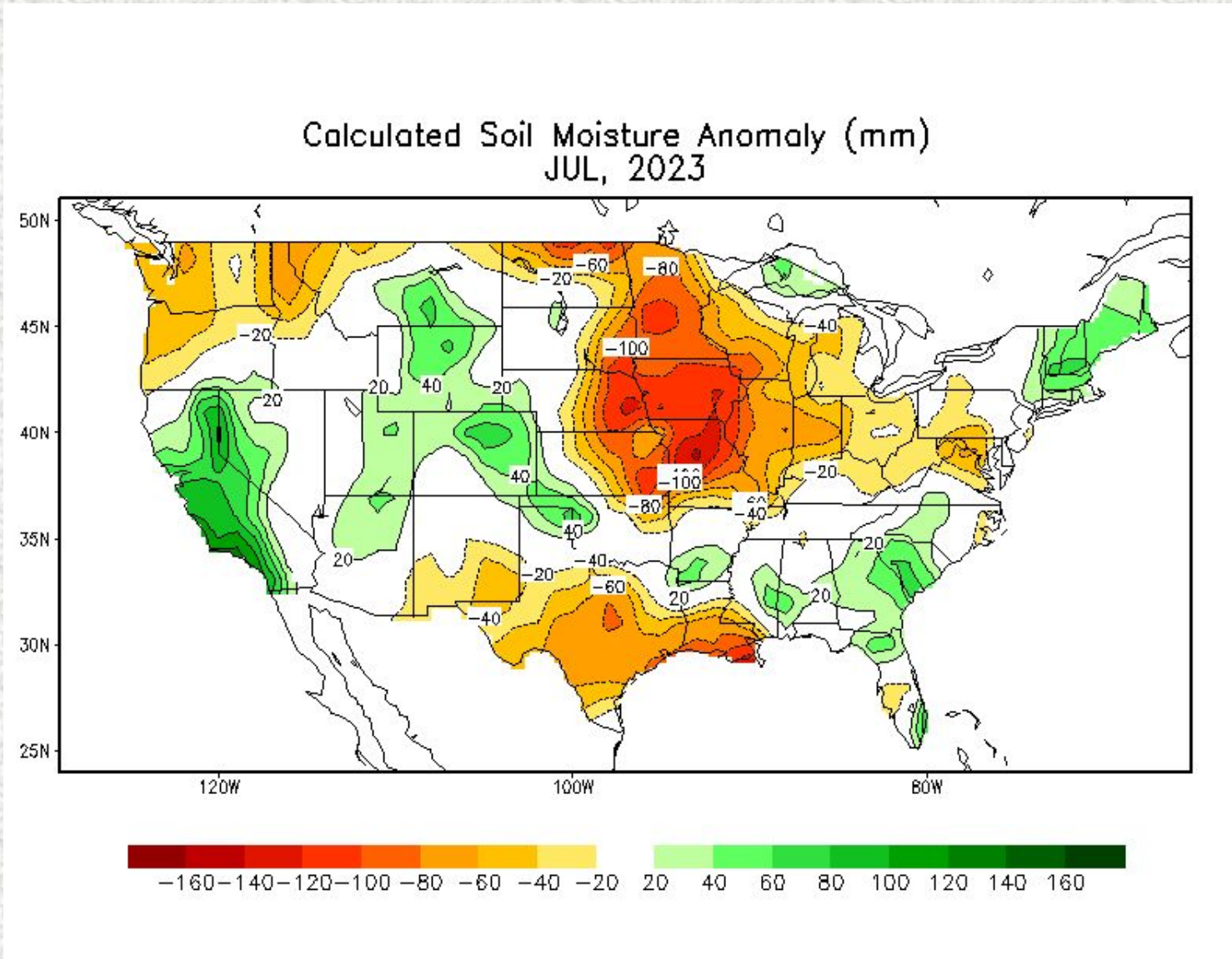
Low	<10	10-24	25-75	76-90	>90	High	No Data	
	Much below normal	Below normal	Normal	Above normal	Much above normal			

# Soil Moisture

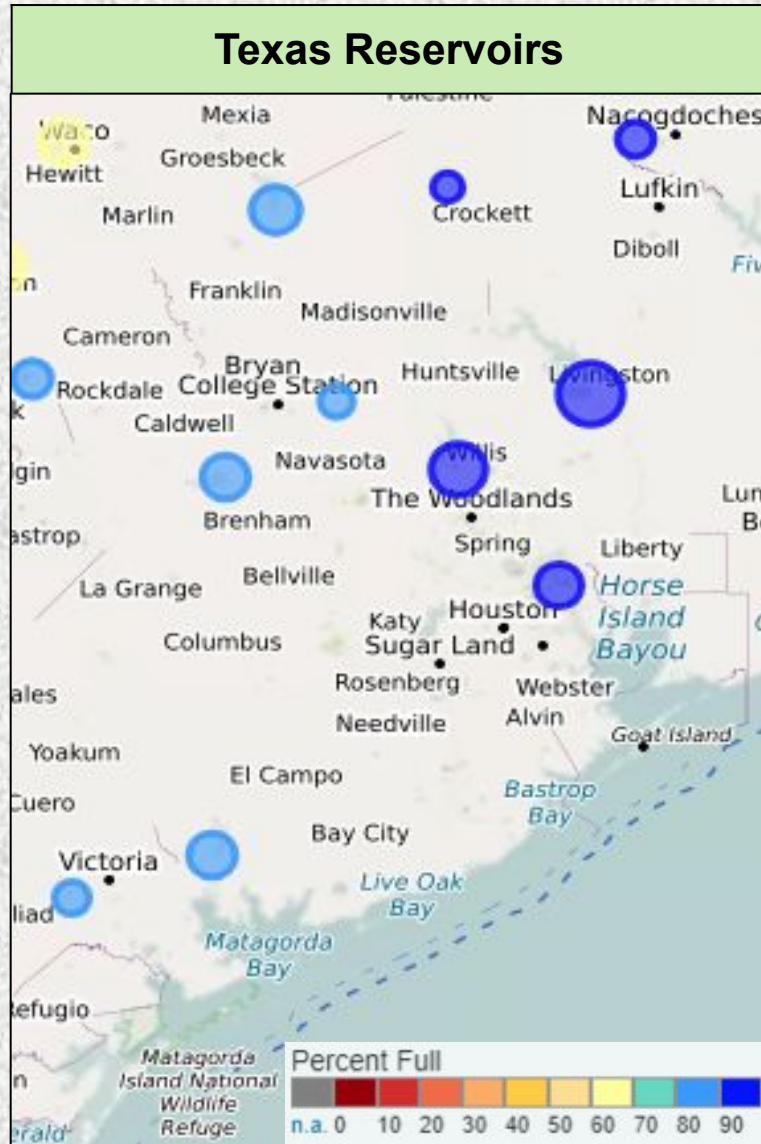




# Soil Moisture Anomaly



# Reservoir Status



Reservoir	Percent Full Conservation Storage
Houston County Lake	91.9%
Lake Livingston	93.0%
Lake Conroe	94.7%
Lake Houston	97.8%
Gibbons Creek Reservoir	81.5%
Lake Somerville	87.6%
Lake Texana	82.3%

Data added on: August 7, 2023 at 3:30 am CDT

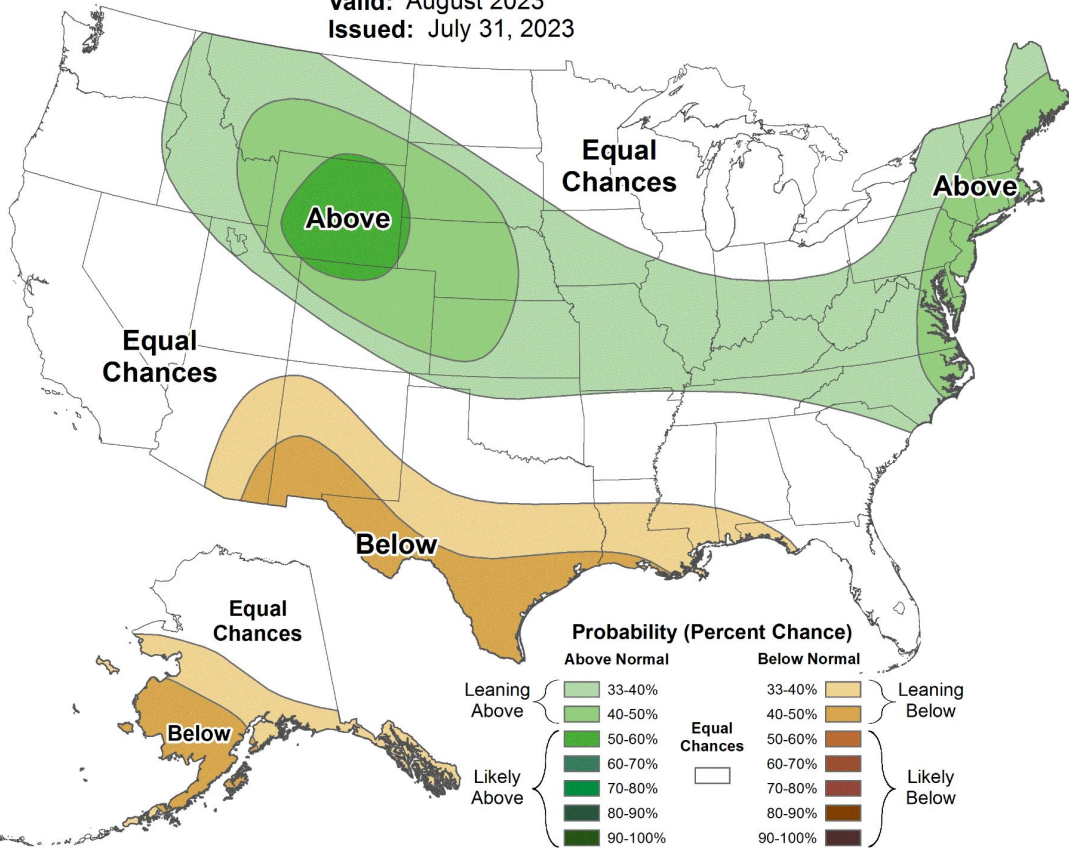
# Precipitation Outlooks



## Monthly Precipitation Outlook



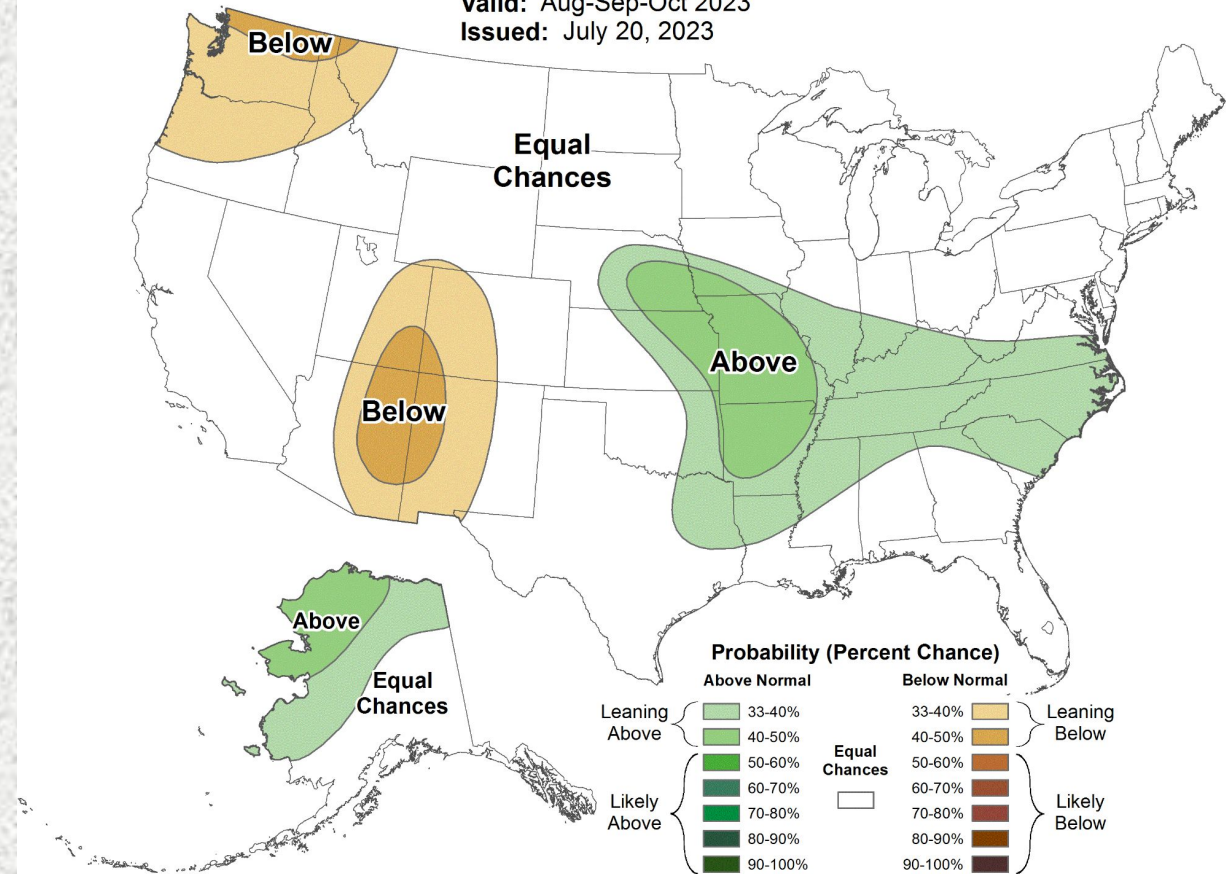
Valid: August 2023  
Issued: July 31, 2023



## Seasonal Precipitation Outlook



Valid: Aug-Sep-Oct 2023  
Issued: July 20, 2023



# 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)	3 (ETN: 083-085)
Probabilistic Hydrologic Outlook (ESF)	6