

NWS Houston/Galveston Monthly Hydrologic Report May 2023

Produced by: Cameron Batiste

Date: 06/05/2023

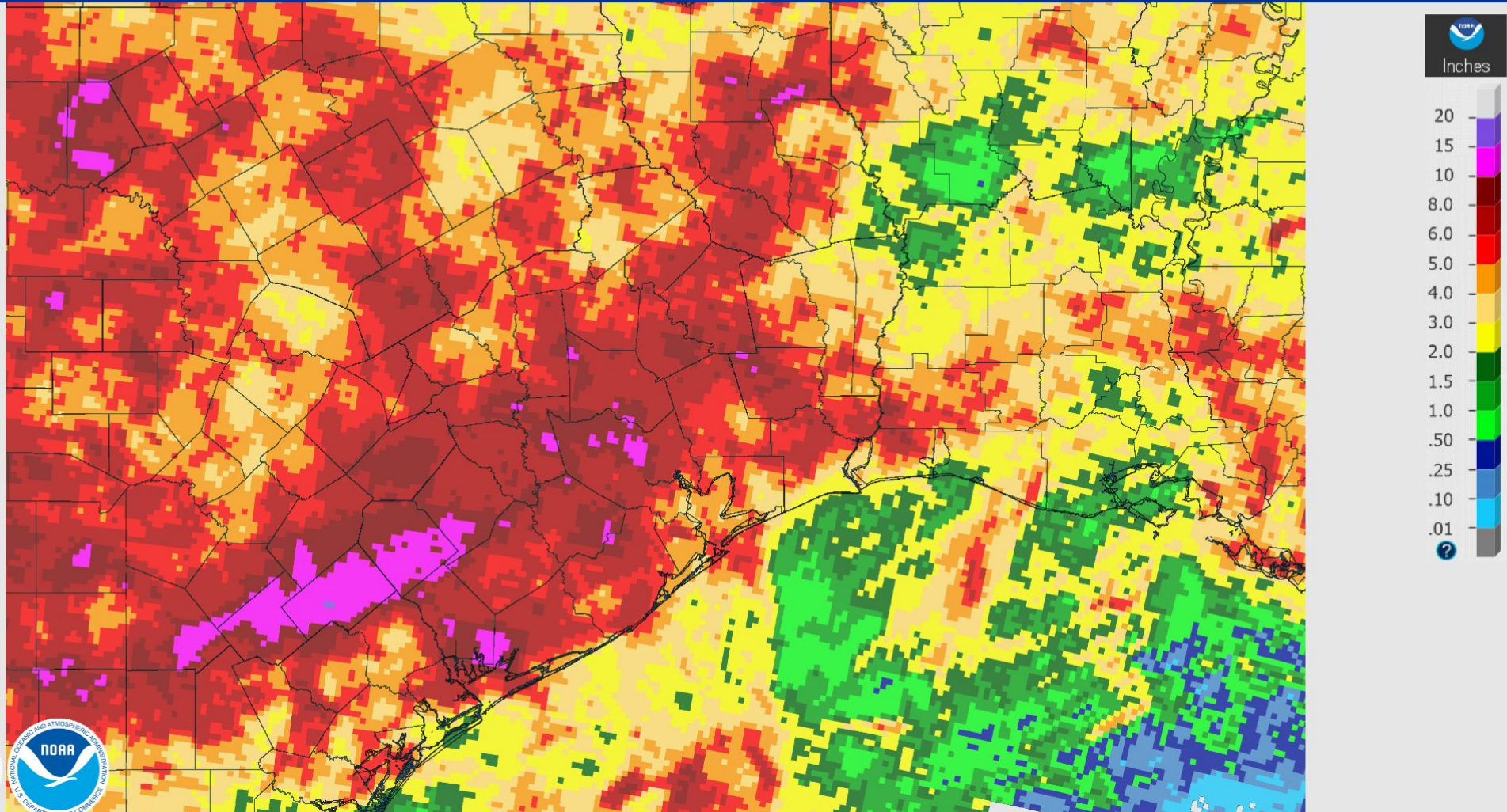
May was abnormally wet to say the least as numerous locations saw well above normal precipitation amounts which led to drought conditions being completely wiped out across all of Southeast Texas. Some locations saw near or over a foot of rain for the month, including Palacios which recorded 12.01 inches of rain. There were eight Flash Flood Warnings, nine Areal Flood Warnings, and thirty-five Flood Advisories issued throughout this active month for rainfall.

Monthly Precipitation

May 01, 2023 Monthly Observed Precipitation

Created on: June 02, 2023 - 13:23 UTC

Valid on: June 01, 2023 12:00 UTC

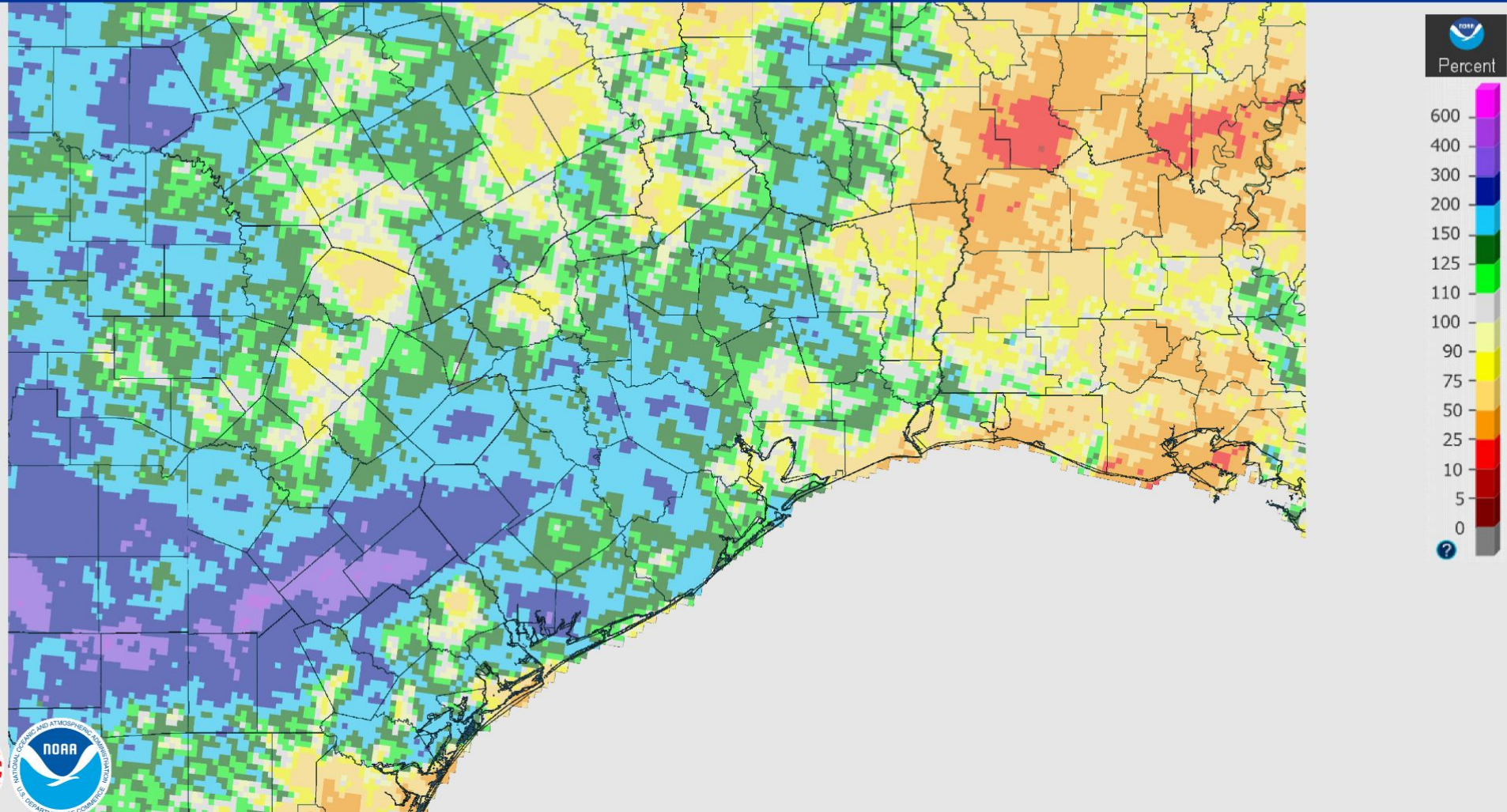


Monthly Percent of Normal Precipitation

May 01, 2023 Monthly Percent Precipitation

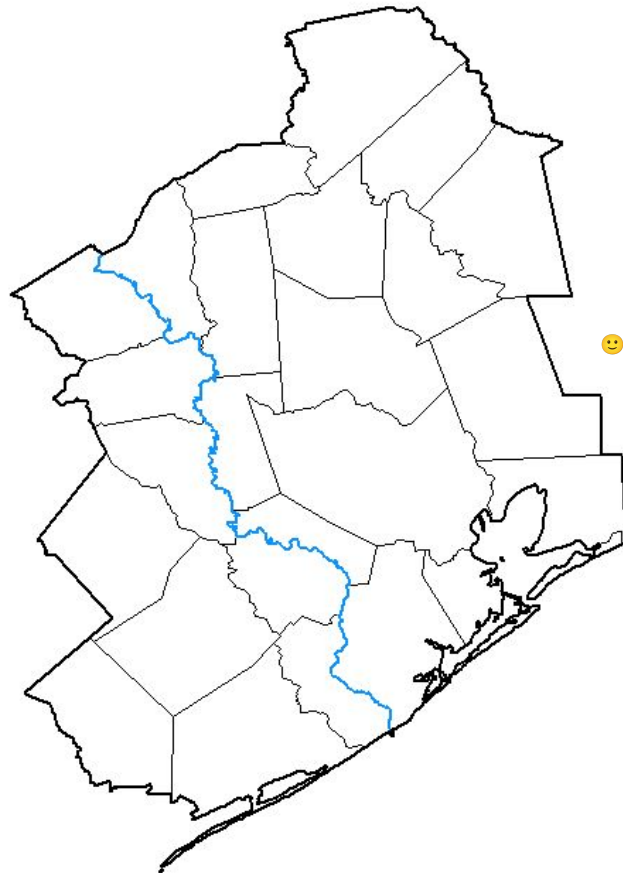
Created on: June 02, 2023 - 13:24 UTC

Valid on: June 01, 2023 12:00 UTC



U.S. Drought Monitor

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



May 30, 2023
(Released Thursday, Jun. 1, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	100.00	0.00	0.00	0.00	0.00	0.00
Last Week 05-23-2023	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago 02-28-2023	69.44	30.56	7.92	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 05-31-2022	35.57	64.43	45.94	29.97	5.45	0.00

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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NCEI/NOAA



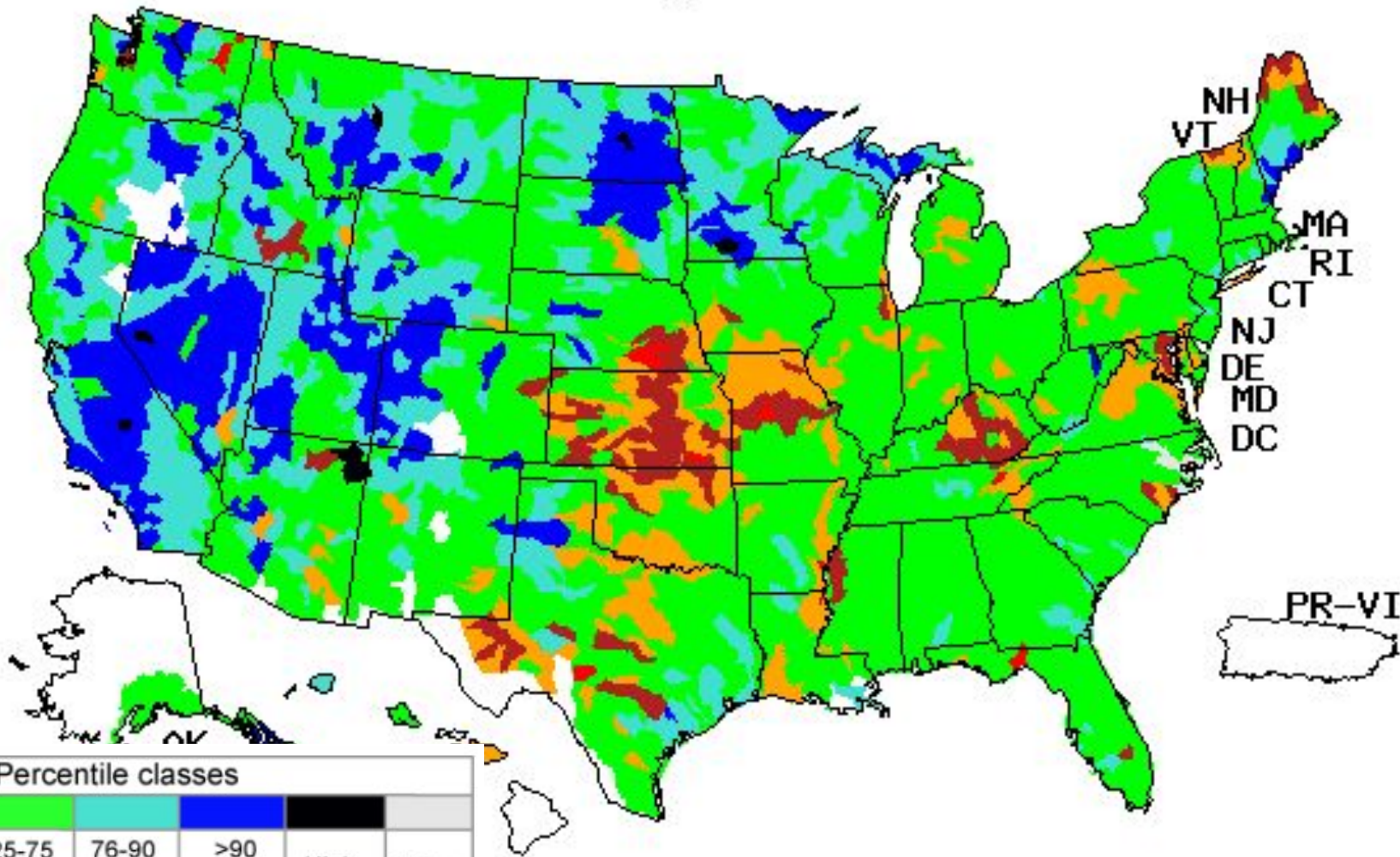
droughtmonitor.unl.edu

River Flooding

River and Station	Flood Stage (feet)	Crest Stage (feet)	Crest Date
Lavaca River near Edna (EDNT2)	21.0	23.34	May 12th (14:10Z)
		26.86	May 15th (08:33Z)
Navidad River near Strane Park (LSNT2)	24.0	26.27	May 15th (17:45Z)
Navidad River near Morales (MRAT2)	29.0	29.81	May 15th (00:00Z)
Navidad River near Sublime (SBMT2)	24.0	25.66	May 14th (01:15Z)
Sandy Creek near Cordele (CODT2)	18.0	18.75	May 15th (15:15Z)
San Bernard River near Boling (BOLT2)	18.0	25.25	May 18th (15:45Z)
San Bernard River near East Bernard (EBBT2)	17.0	20.73	May 16th (05:00Z)
San Bernard River near Old Ocean (OCNT2)	7.0	8.34	May 19th (21:00Z)
Tres Palacios River near Midfield (MTPT2)	24.0	27.68	May 15th (06:15Z)
Bedias Creek near Madisonville (MDST2)	19.0	20.60	May 15th (23:00Z)

Monthly Average Streamflow

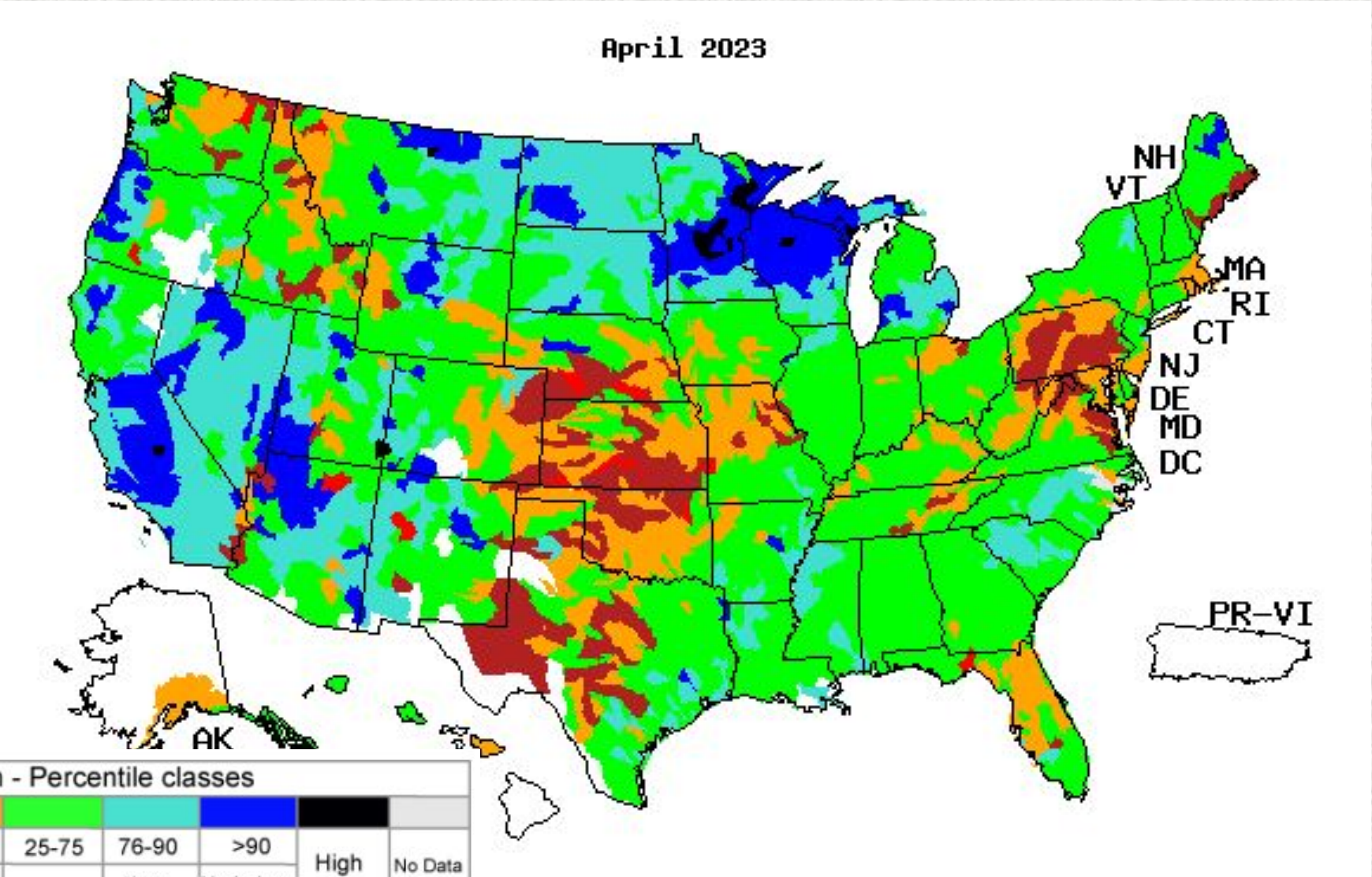
May 2023



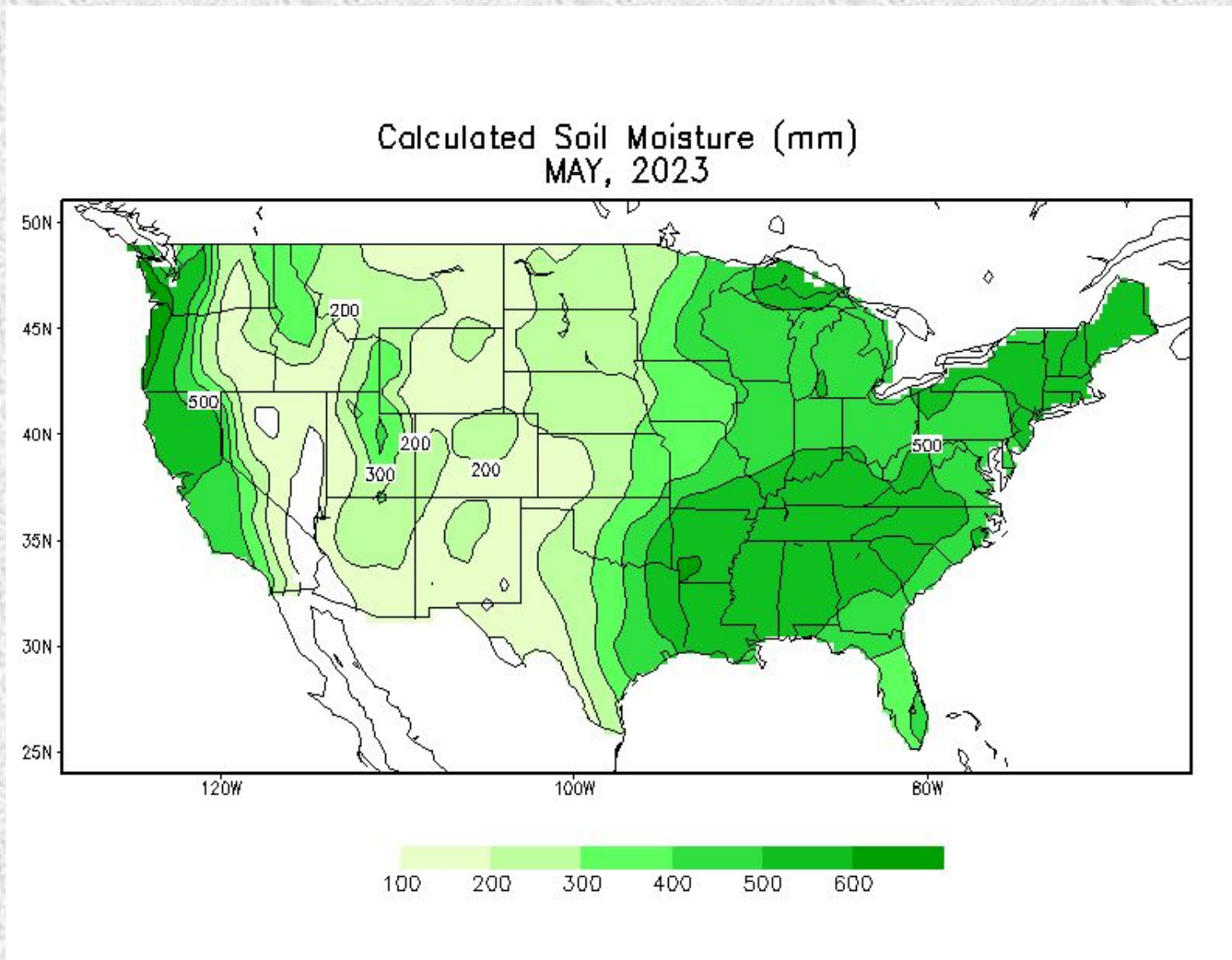
Explanation - Percentile classes

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

Previously Monthly Average Streamflow

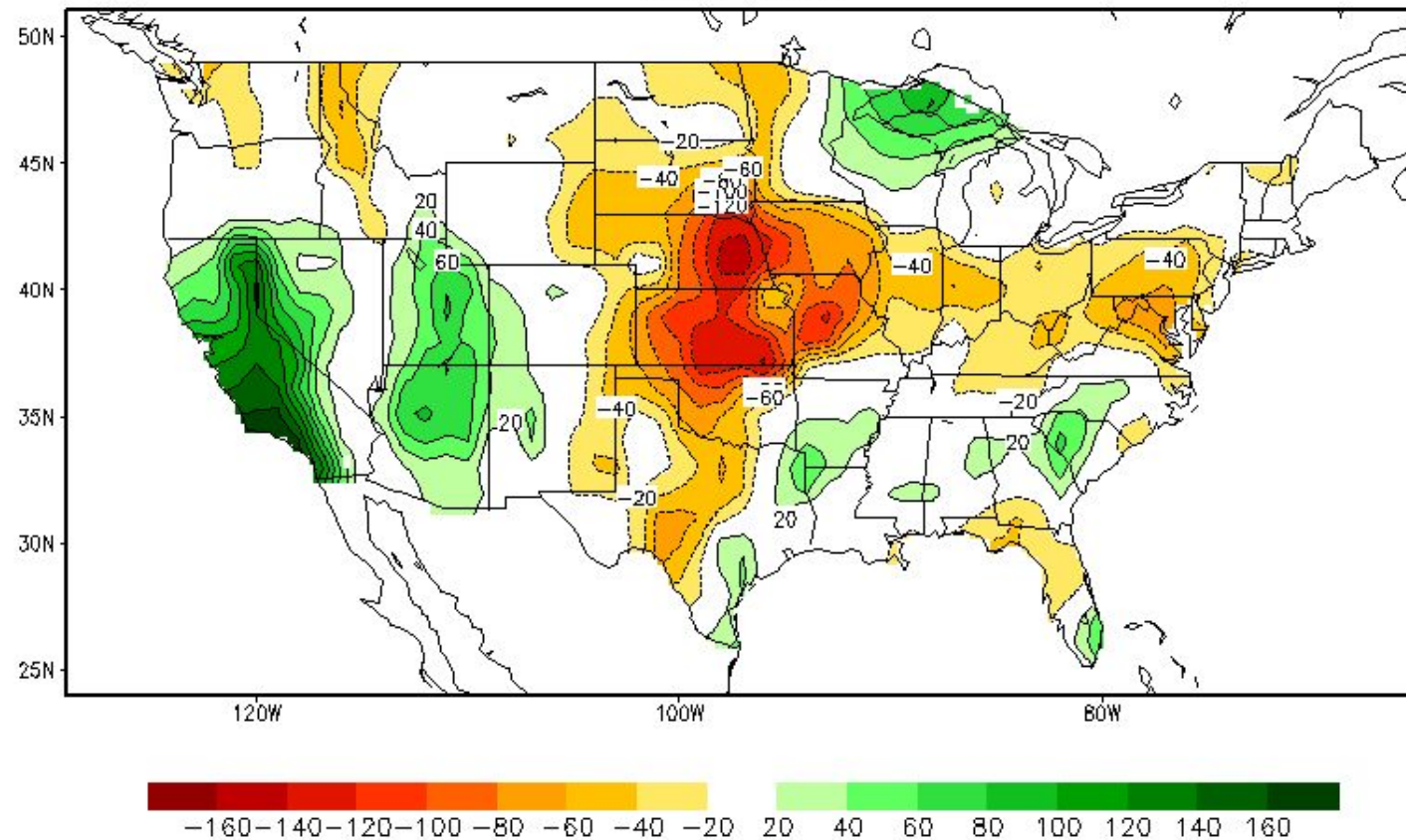


Soil Moisture

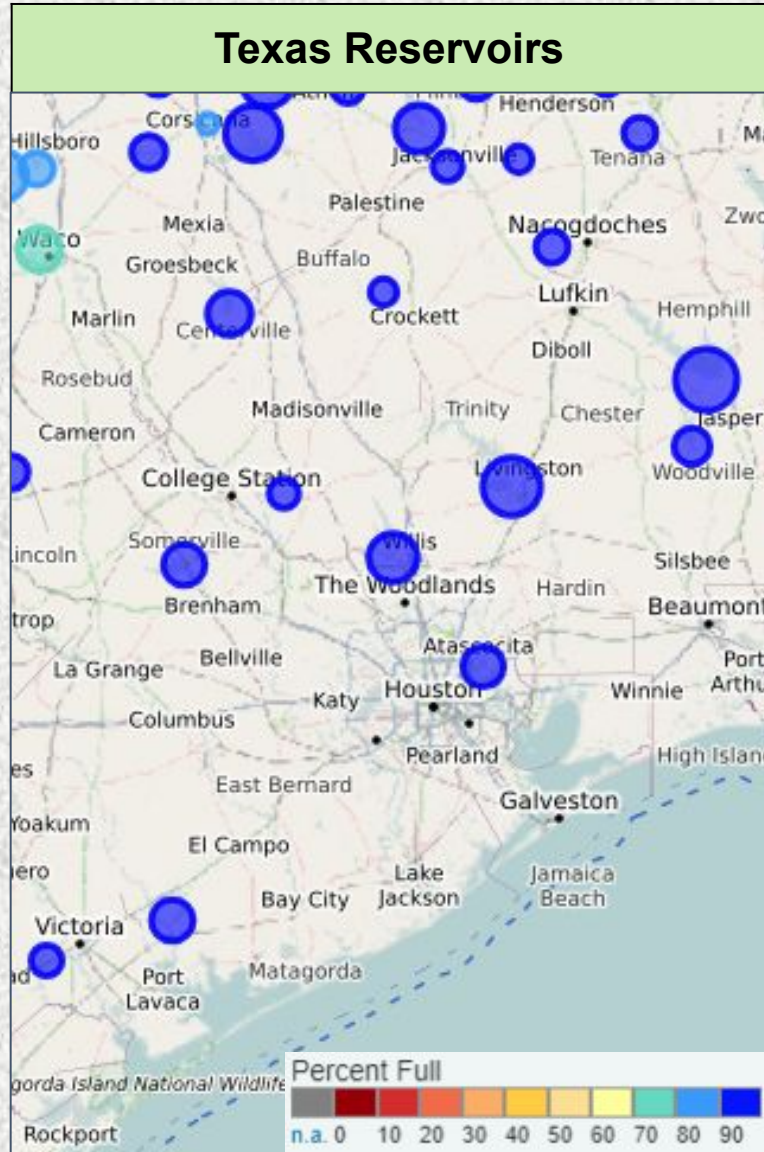


Soil Moisture Anomaly

Calculated Soil Moisture Anomaly (mm)
MAY, 2023



Reservoir Status



Reservoir	Percent Full Conservation Storage
Houston County Lake	100.0%
Lake Livingston	100.0%
Lake Conroe	100.0%
Lake Houston	100.0%
Gibbons Creek Reservoir	91.9%
Lake Somerville	100.0%
Lake Texana	98.3%

Data added on: June 5, 2023 at 8:30 pm CDT

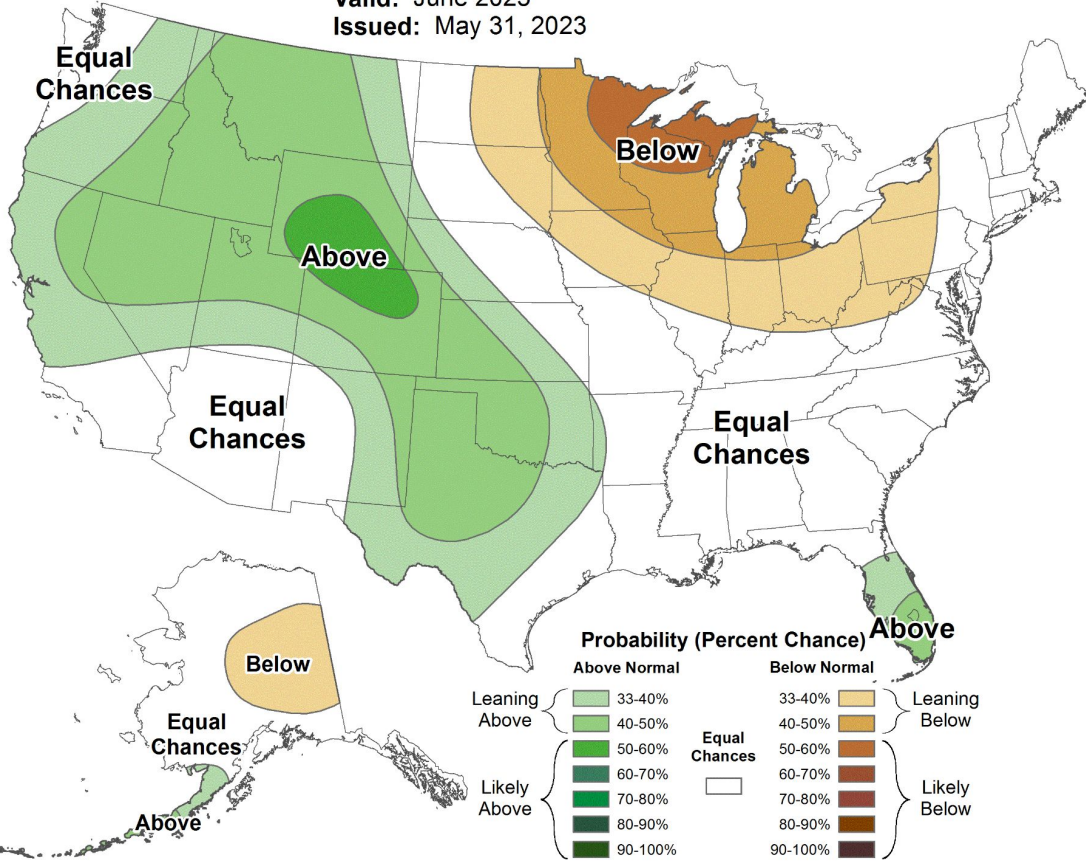
Precipitation Outlooks



Monthly Precipitation Outlook



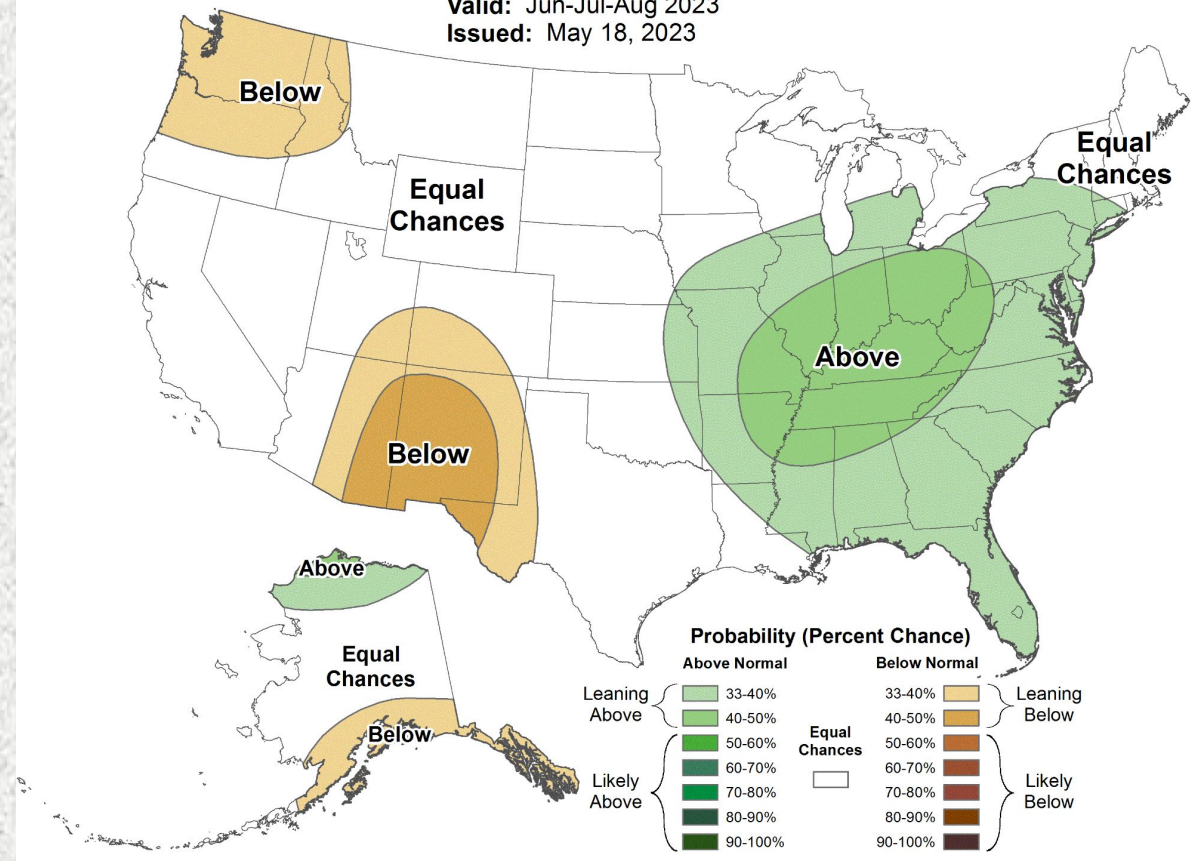
Valid: June 2023
Issued: May 31, 2023



Seasonal Precipitation Outlook



Valid: Jun-Jul-Aug 2023
Issued: May 18, 2023



Flood Products Issued

Product	Number Issued
Flash Flood Watch (FFA)	2 (ETN: 002-003)
Flash Flood Warning (FFW)	8 (ETN: 006-013)
Flash Flood Statement (FFS)	7
Areal Flood Warning	9 (ETN: 007-015)
River Flood Warnings (FLW)	18 (ETN: 027-044)
River Flood Statements	86
Flood Advisories (FLS)	35 (ETN: 038-072)
Probabilistic Hydrologic Outlook (ESF)	6