

NWS Houston/Galveston Monthly Hydrologic Report April 2024

Produced by: Cameron Batiste

Date: 05/10/2024

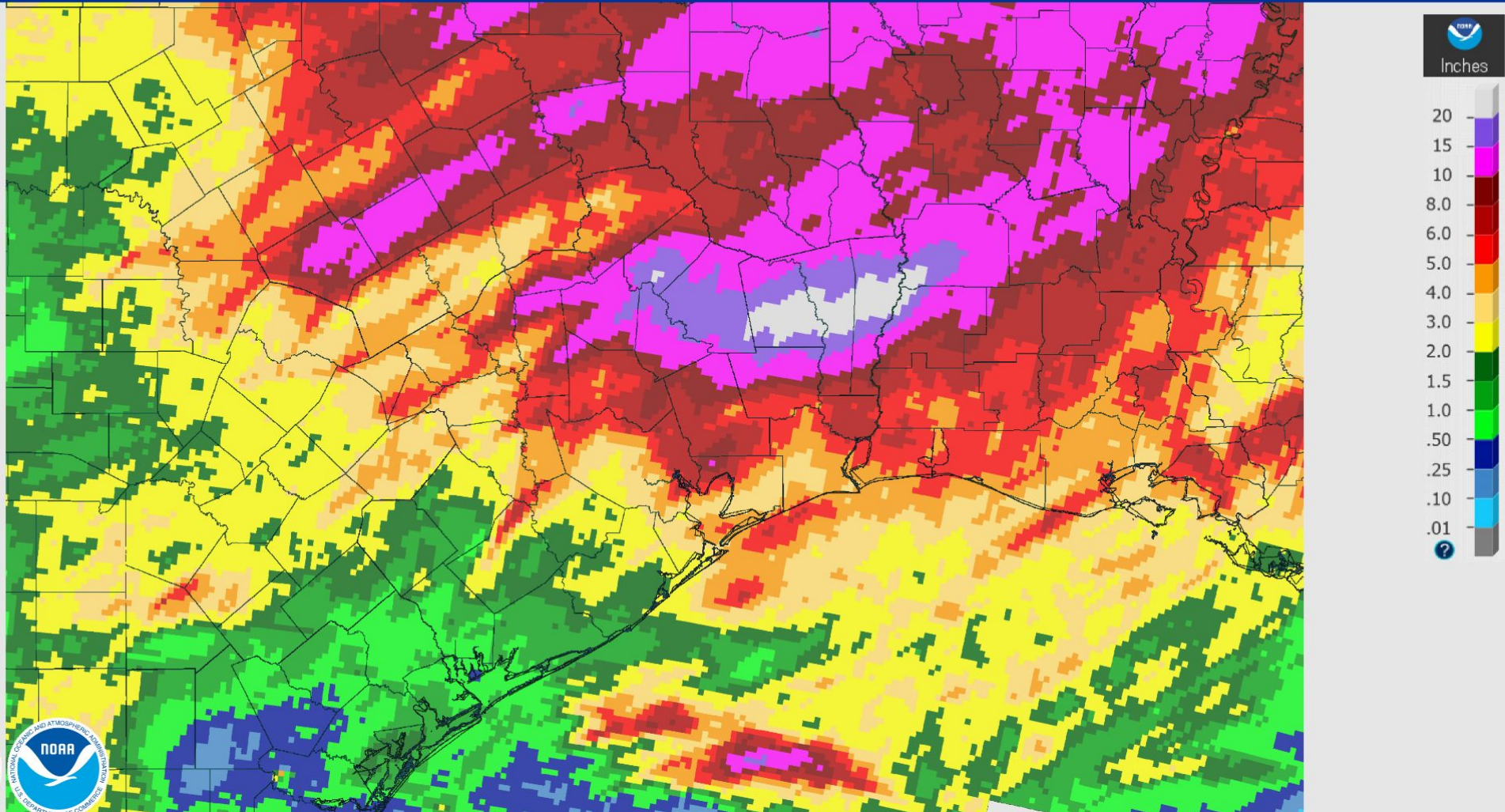
April was highlighted by the first of multiple heavy rainfall events towards the end of the month where 10+” of rain fell across portions of Trinity, Polk, San Jacinto, and Walker Counties. It’d be easier to say who didn’t get much rain which was locations around Matagorda Bay where they are now outlined as abnormally dry in the drought monitor.

Monthly Precipitation

April 01, 2024 Monthly Observed Precipitation

Created on: May 10, 2024 - 14:41 UTC

Valid on: May 01, 2024 12:00 UTC

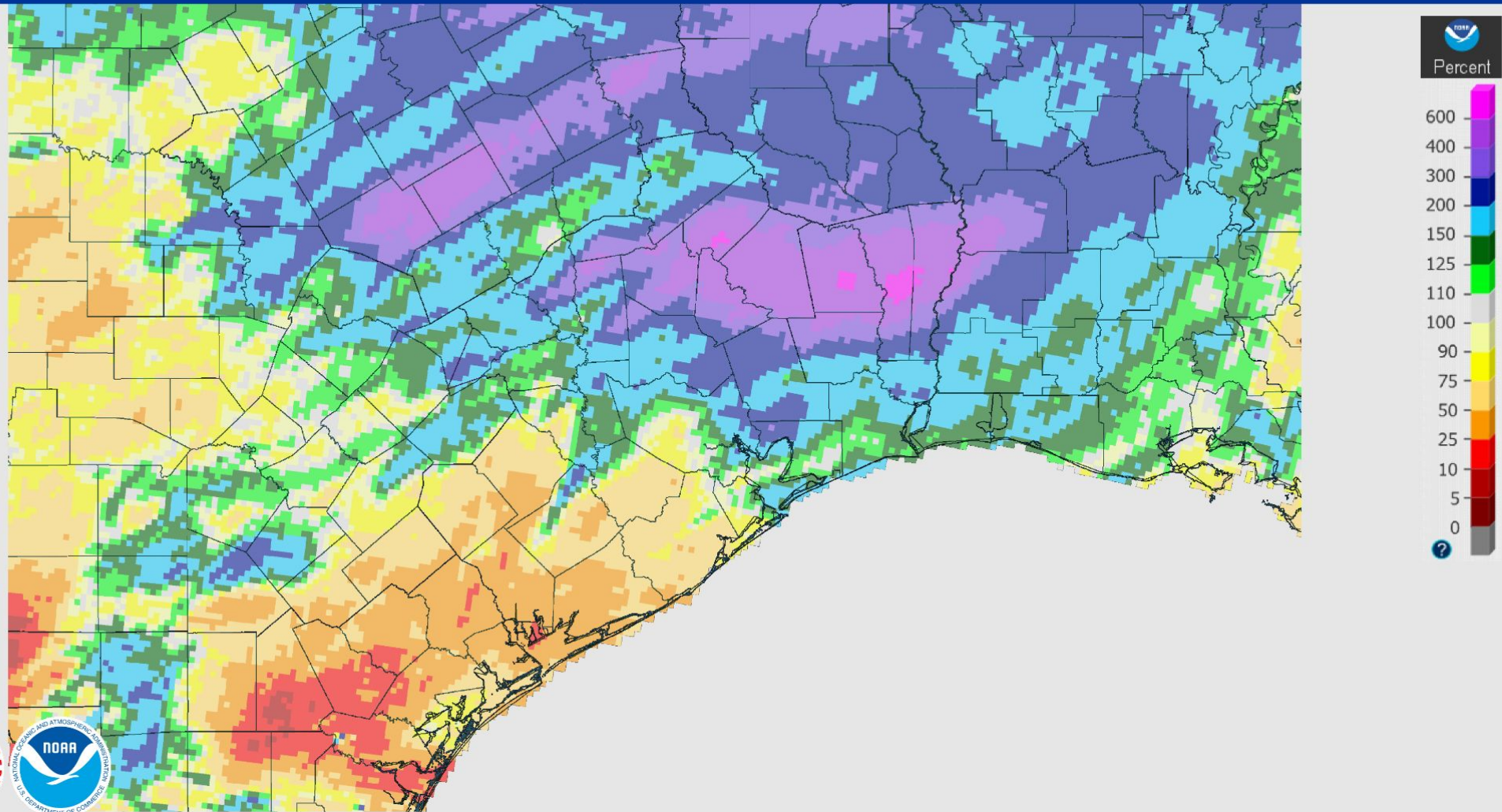


Monthly Percent of Normal Precipitation

April 01, 2024 Monthly Percent Precipitation

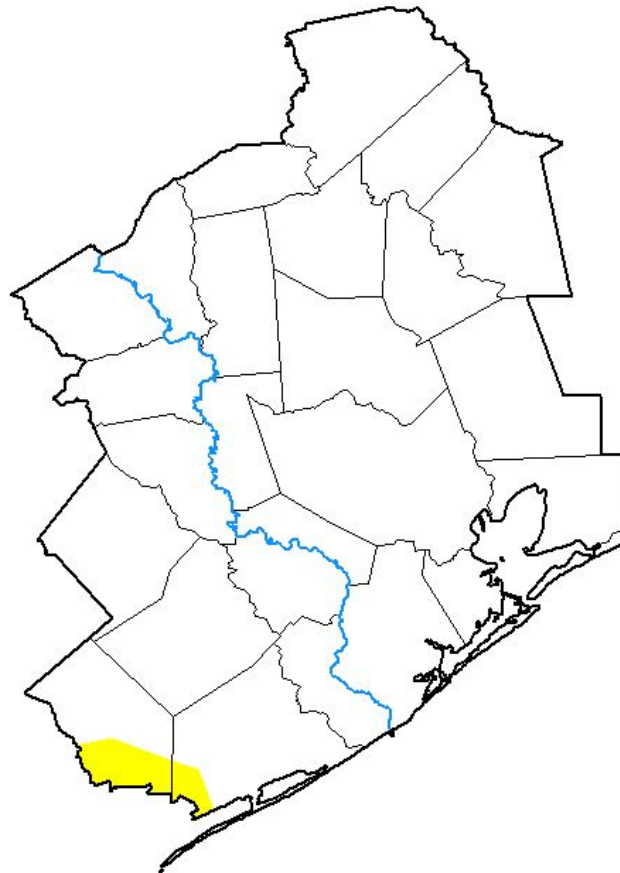
Created on: May 10, 2024 - 14:42 UTC

Valid on: May 01, 2024 12:00 UTC



U.S. Drought Monitor

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



April 30, 2024
(Released Thursday, May 2, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	98.50	1.50	0.00	0.00	0.00	0.00
Last Week 04-23-2024	98.50	1.50	0.00	0.00	0.00	0.00
3 Months Ago 01-30-2024	98.19	1.81	0.00	0.00	0.00	0.00
Start of Calendar Year 01-02-2024	26.21	73.79	57.44	11.02	0.00	0.00
Start of Water Year 09-26-2023	0.00	100.00	100.00	100.00	99.98	55.82
One Year Ago 05-02-2023	81.53	18.47	4.06	0.00	0.00	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:

Curtis Riganti
National Drought Mitigation Center



droughtmonitor.unl.edu

River Flooding

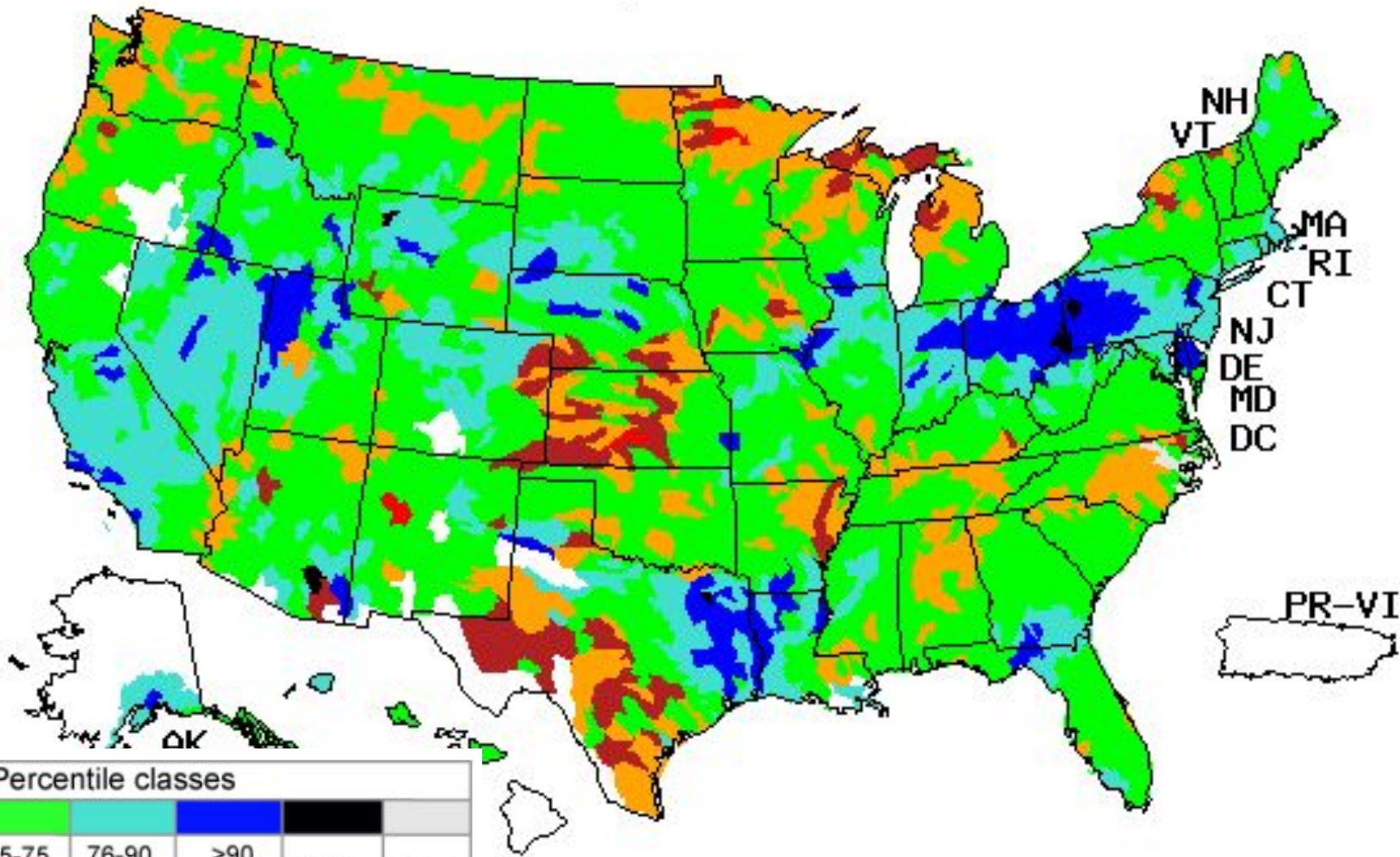
River and Station	Flood Stage (feet)	Crest Stage (feet)	Crest Date
Navasota River at Normangee (NGET2)	15.0	17.41	04/12 22:30Z
E. Fork San Jacinto River at Cleveland (CLDT2)	19.0	21.70	04/30 15:15Z
E. Fork San Jacinto River at New Caney (NCET2)	58.0	77.70	05/03 23:45Z
Peach Creek at Splendora (SPDT2)	14.0	14.95	04/29 16:30Z
Trinity River at Goodrich (GRIT2)	36.0	43.24	04/30 15:00Z
		48.92	05/03 21:15Z
Trinity River at Liberty (LBYT2)	26.0	26.32	04/23 16:15Z
		32.37	05/06 15:00Z
Trinity River at Moss Bluff (MBFT2)	12.2	12.74	04/25 19:00Z
		18.36	05/07 14:45Z
Trinity River at Riverside (RVRT2)	133.5	134.10	04/17 04:30Z
		140.40	05/05 18:00Z
Bedias Creek at Madisonville (MDST2)	19.0	24.94	04/29 18:01Z

River Flooding

River and Station	Flood Stage (feet)	Crest Stage (feet)	Crest Date
Long King Creek at Livingston (LIVT2)	19.0	24.24	04/10 17:45Z
		26.39	04/29 18:01Z
Menard Creek at Rye (RYET2)	20.0	26.78	04/12 00:45Z
		28.86	04/29 16:15Z

Monthly Average Streamflow

April 2024

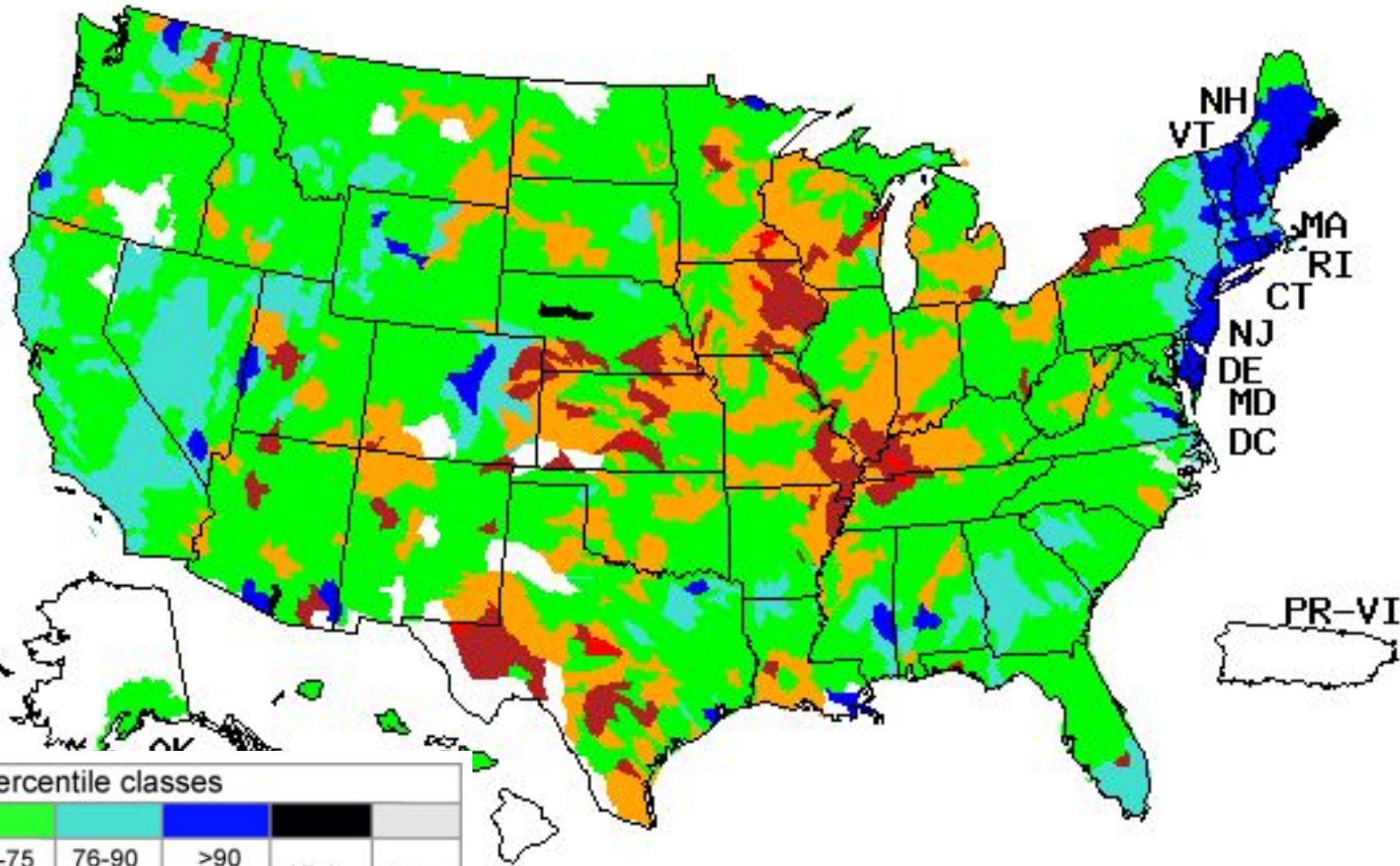


Explanation - Percentile classes

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

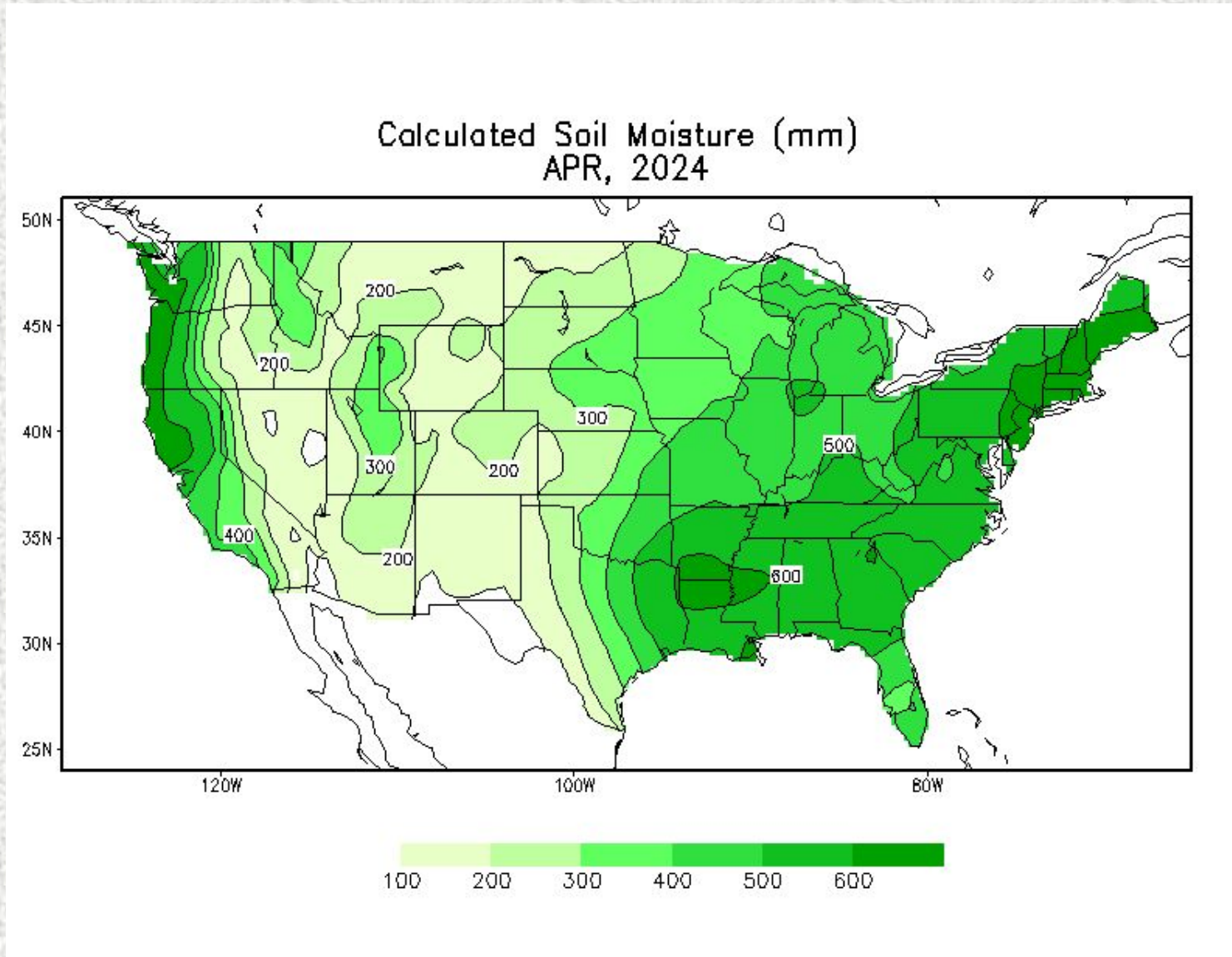
March 2024



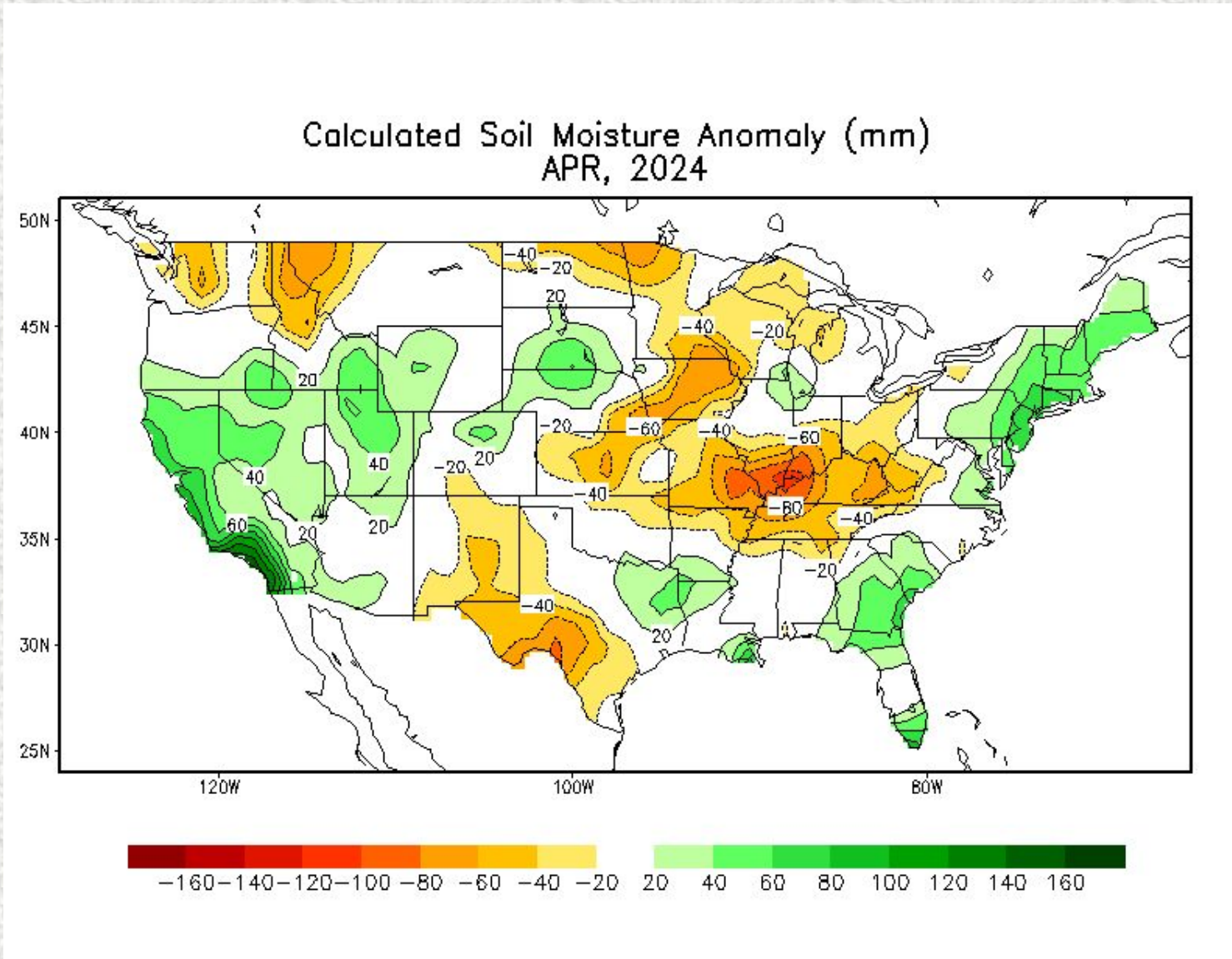
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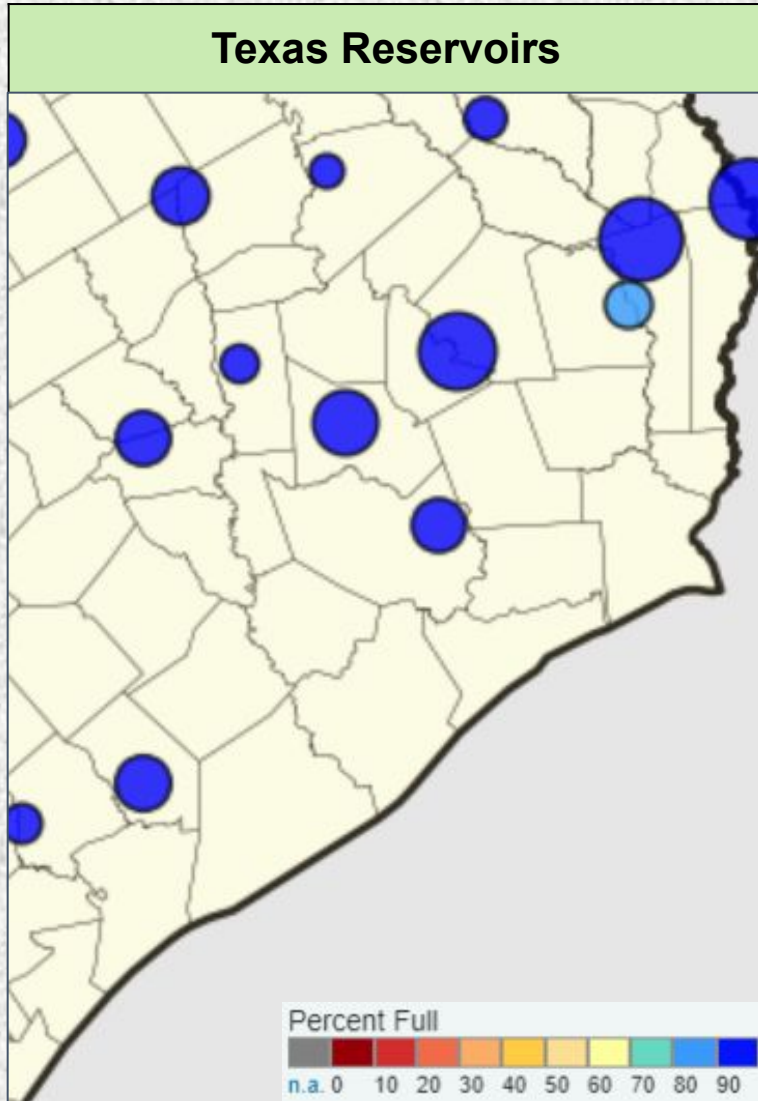
Soil Moisture



Soil Moisture Anomaly



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	94.0%
Lake Somerville	100.0%
Lake Texana	93.9%

Data added on: May 10, 2024 at 10:00 am CDT

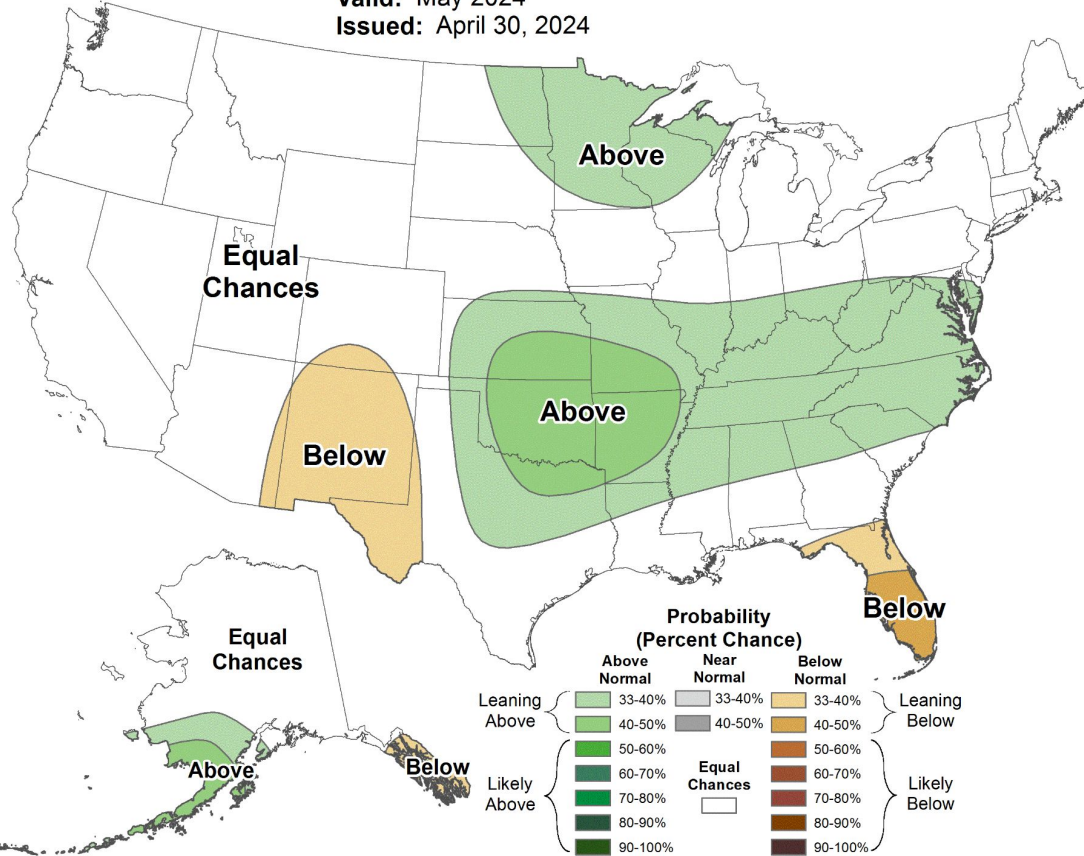
Precipitation Outlooks



Monthly Precipitation Outlook



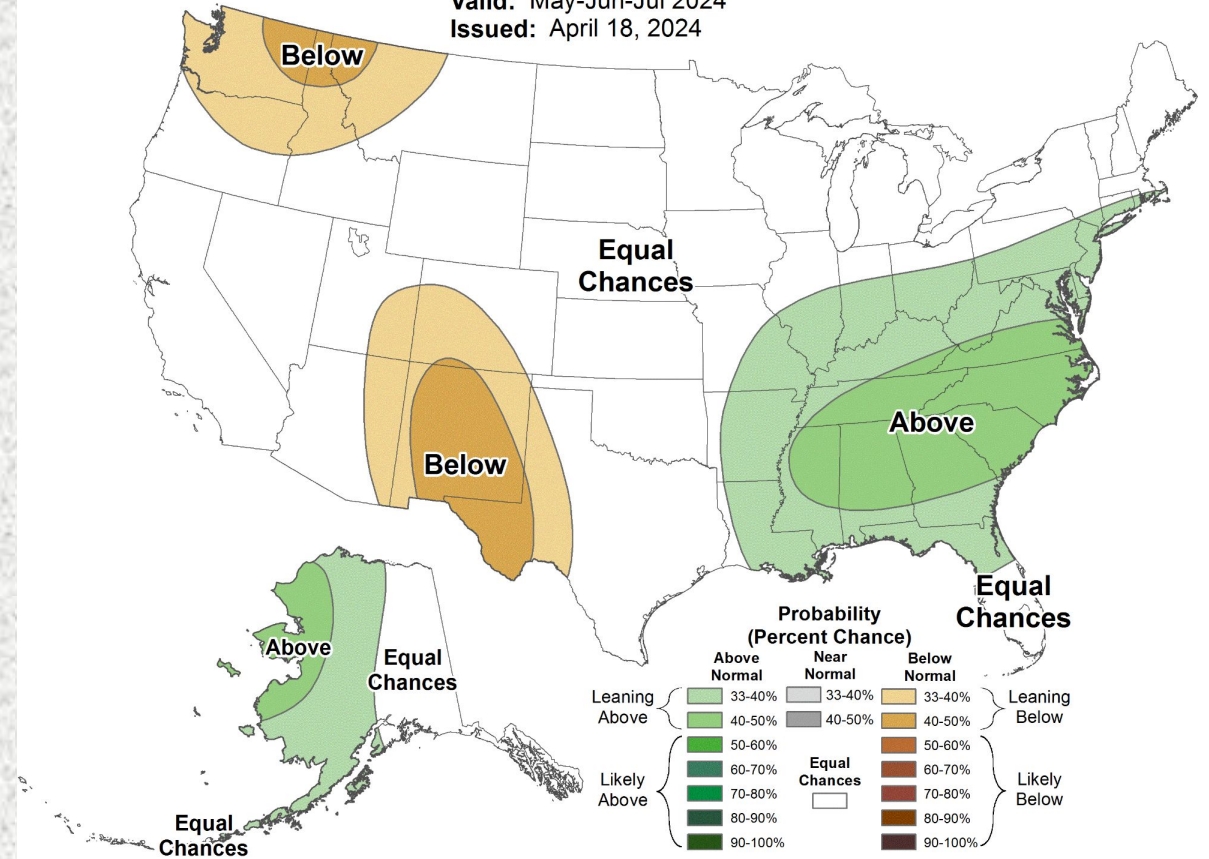
Valid: May 2024
Issued: April 30, 2024



Seasonal Precipitation Outlook



Valid: May-Jun-Jul 2024
Issued: April 18, 2024



Flood Products Issued

Product	Number Issued
Flash Flood Watch (FFA)	2 (ETN: 002-003)
Flash Flood Warning (FFW)	13 (ETN: 008-020)
Flash Flood Statement (FFS)	9
Areal Flood Warning	5 (ETN: 009-013)
River Flood Warnings (FLW)	21 (ETN: 041-061)
River Flood Statements	82
Flood Advisories (FLS)	12 (ETN: 025-036)
Probabilistic Hydrologic Outlook (ESF)	6