

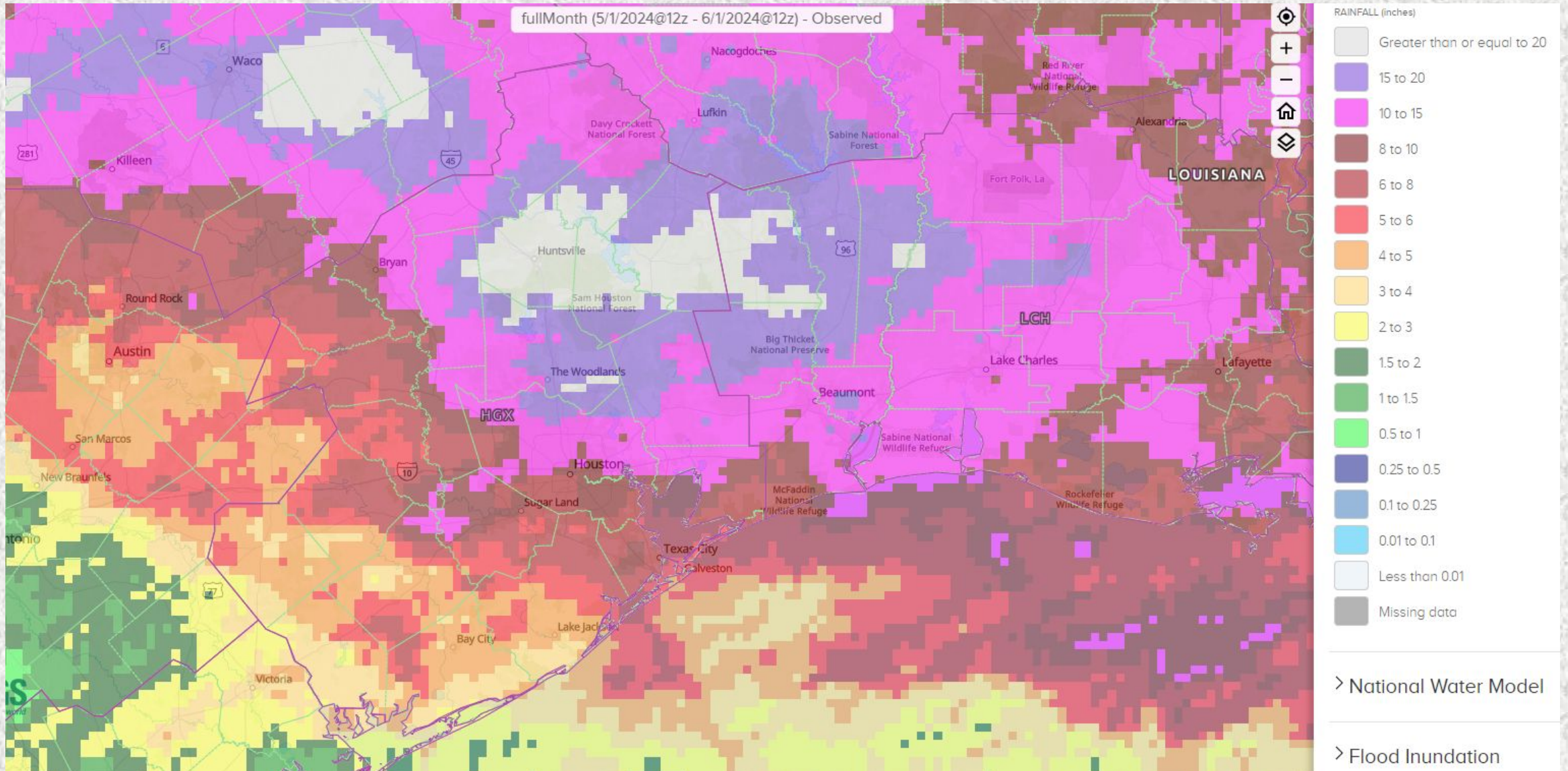
NWS Houston/Galveston Monthly Hydrologic Report May 2024

Produced by: Cameron Batiste

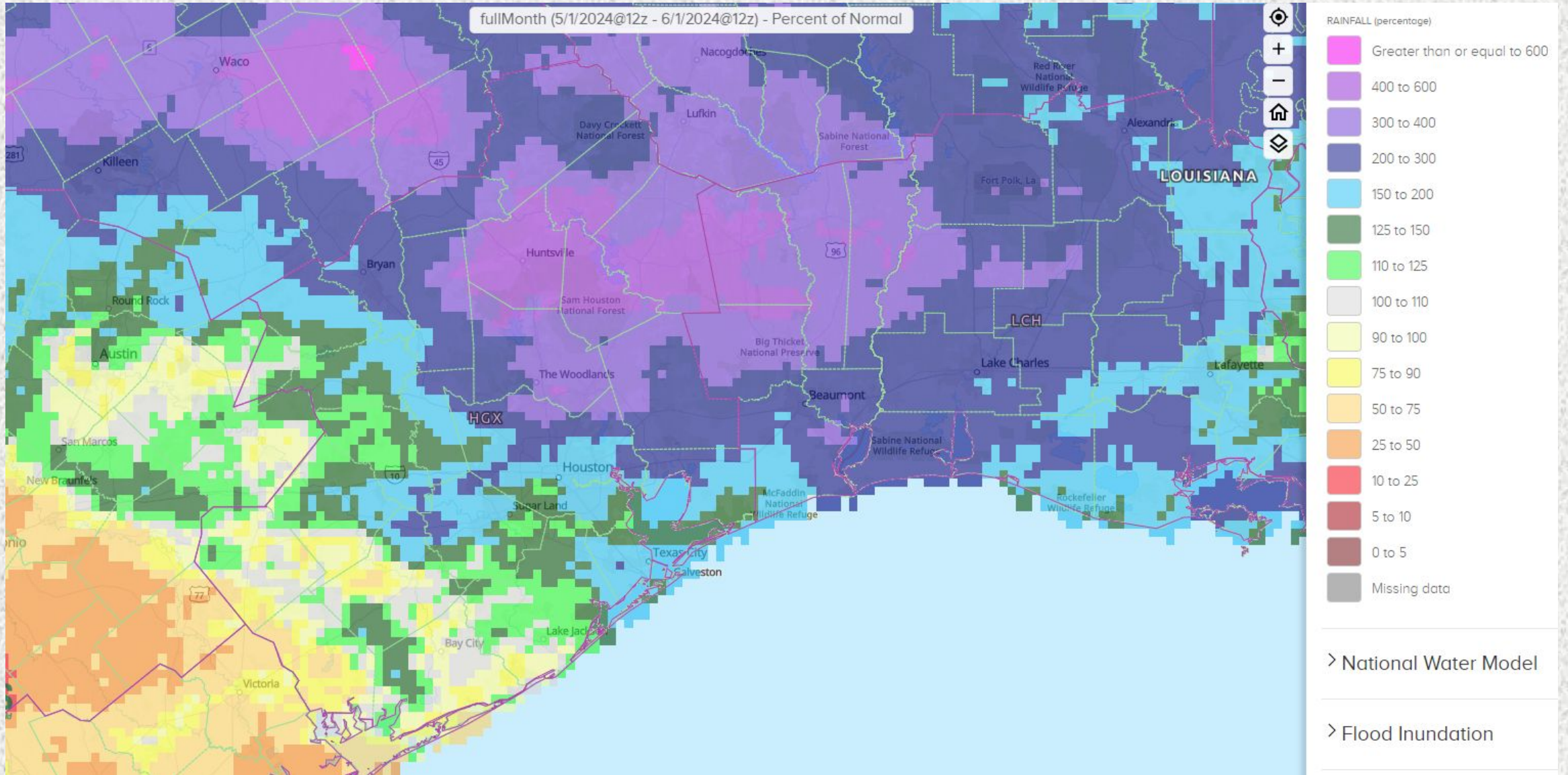
Date: 06/05/2024

May was marred with multiple heavy rainfall events, especially over portions of the Brazos Valley and the Piney Woods. Monthly rainfall totals exceeded 20" for portions of Walker, Trinity, Polk, San Jacinto, and Montgomery Counties. These rounds of excessive rainfall led to widespread moderate to major river flooding especially along the Trinity, San Jacinto, and portions of the Brazos River.

Monthly Precipitation

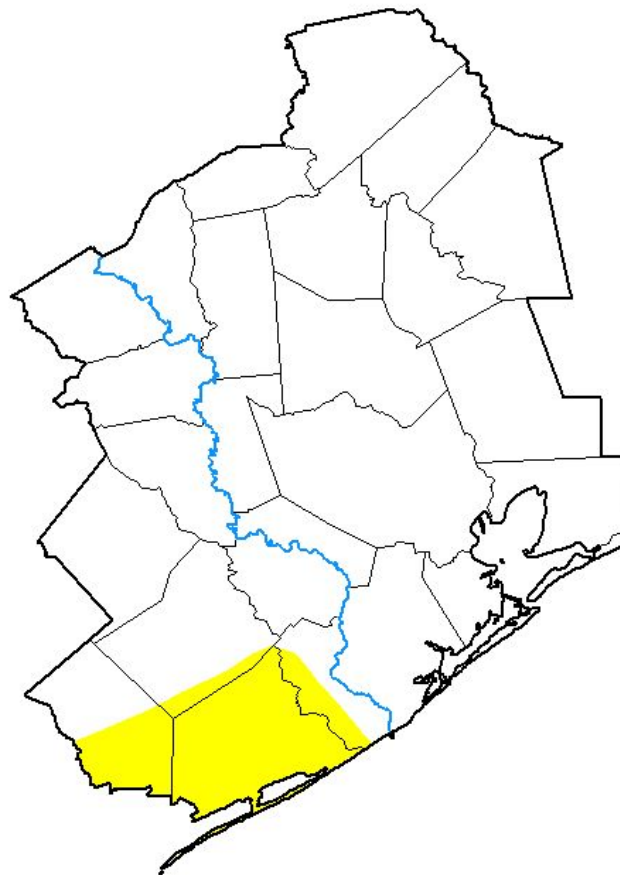


Monthly Percent of Normal Precipitation



U.S. Drought Monitor

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



May 28, 2024

(Released Thursday, May. 30, 2024)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	90.93	9.07	0.00	0.00	0.00	0.00
Last Week 05-21-2024	90.93	9.07	0.00	0.00	0.00	0.00
3 Months Ago 02-27-2024	100.00	0.00	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 05-30-2023	100.00	0.00	0.00	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:

Rocky Bilotta
NCEI/NOAA



droughtmonitor.unl.edu

River Flooding

River and Station	Flood Stage (feet)	Crest Stage (feet)	Crest Date
Brazos River at Richmond (RMOT2)	45.0	45.92	05/12 04:30Z
		45.78	05/22 18:45Z
Brazos River at Rosharon (ROST2)	43.0	46.96	05/13 22:00Z
Brazos River at Sugar Land (SLNT2)	65.5	67.69	05/12 11:05Z
		67.59	05/22 23:50Z
Brazos River at West Columbia (WCBT2)	26.0	26.12	05/23 21:20Z
Navasota River at Normangee (NGET2)	15.0	25.61	05/04 06:45Z
		20.33	05/15 01:00Z
		15.88	05/28 12:00Z
East Fork San Jacinto River at Cleveland (CLDT2)	19.0	25.82	05/03 08:15Z
		19.76	05/18 07:30Z

River Flooding

River and Station	Flood Stage (feet)	Crest Stage (feet)	Crest Date
East Fork San Jacinto River at New Caney (NCET2)	58.0	77.70	05/03 23:45Z
		61.29	05/15 16:15Z
		67.78	05/19 02:45Z
Caney Creek at Splendora (SDAT2)	17.0	25.99	05/03 06:00Z
		18.17	05/18 05:30Z
Lake Creek at Sendera Ranch Rd. (FCWT2)	138.0	145.68	05/03 18:30Z
		139.13	05/18 22:30Z
Peach Creek at Splendora (SPDT2)	14.0	20.45	05/03 15:00Z
		16.01	05/17 21:30Z
San Jacinto River at Sheldon (SHLT2)	10.0	19.72	05/04 16:15Z
West Fork San Jacinto River at Conroe (CFKT2)	115.8	121.82	05/03 19:00Z

River Flooding

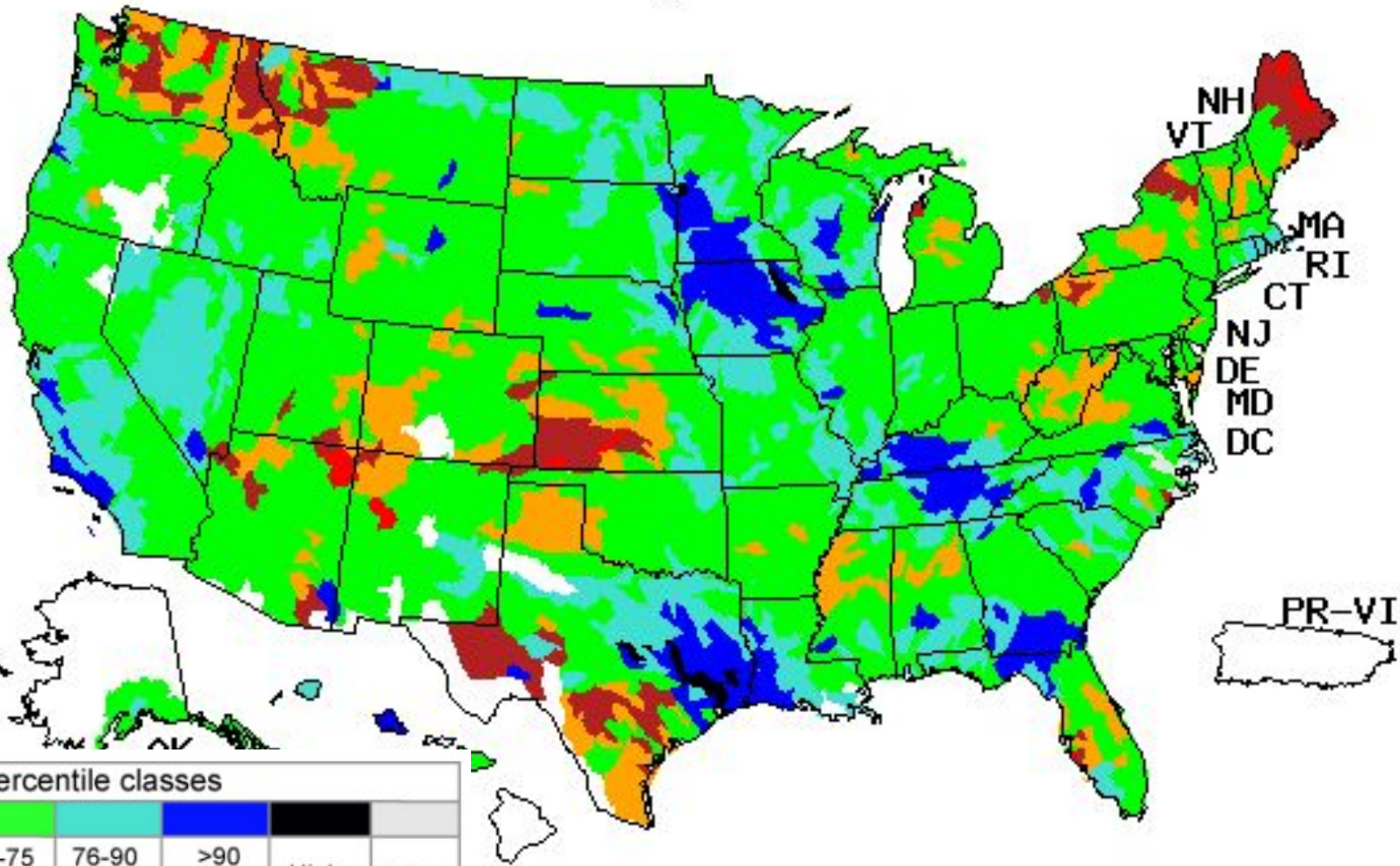
River and Station	Flood Stage (feet)	Crest Stage (feet)	Crest Date
West Fork San Jacinto River at Humble (HMMT2)	49.3	58.80	05/04 15:15Z
		49.70	05/20 04:00Z
West Fork San Jacinto River at Porter (POET2)	81.0	89.10	05/04 03:45Z
Bedias Creek at Madisonville (MDST2)	19.0	25.25	05/03 06:45Z
		20.09	05/06 15:45Z
		20.83	05/17 20:45Z
Long King Creek at Livingston (LIVT2)	19.0	27.42	05/02 19:30Z
		22.43	05/13 17:30Z
		23.75	05/17 06:01Z
Menard Creek at Rye (RYET2)	20.0	26.21	05/02 21:30Z
		32.99	05/03 20:45Z
		21.87	05/14 17:30Z

River Flooding

River and Station	Flood Stage (feet)	Crest Stage (feet)	Crest Date
Menard Creek at Rye (RYET2)	20.0	26.89	05/17 09:30Z
		28.79	05/18 08:00Z
Trinity River at Goodrich (GRIT2)	36.0	48.92	05/03 21:15Z
		42.79	05/18 04:30Z
Trinity River at Crockett (CRKT2)	41.0	46.59	05/14 15:15Z
Trinity River at Liberty (LBYT2)	26.0	32.37	05/06 15:00Z
Trinity River at Moss Bluff (MBFT2)	12.2	18.36	05/07 14:45Z
Trinity River at Romayor (RMYT2)	40.0	42.62	05/04 04:15Z
		40.21	05/18 12:30Z
Trinity River at Riverside (RVRT2)	133.5	140.40	05/05 18:00Z
		137.67	06/15 17:15Z

Monthly Average Streamflow

May 2024

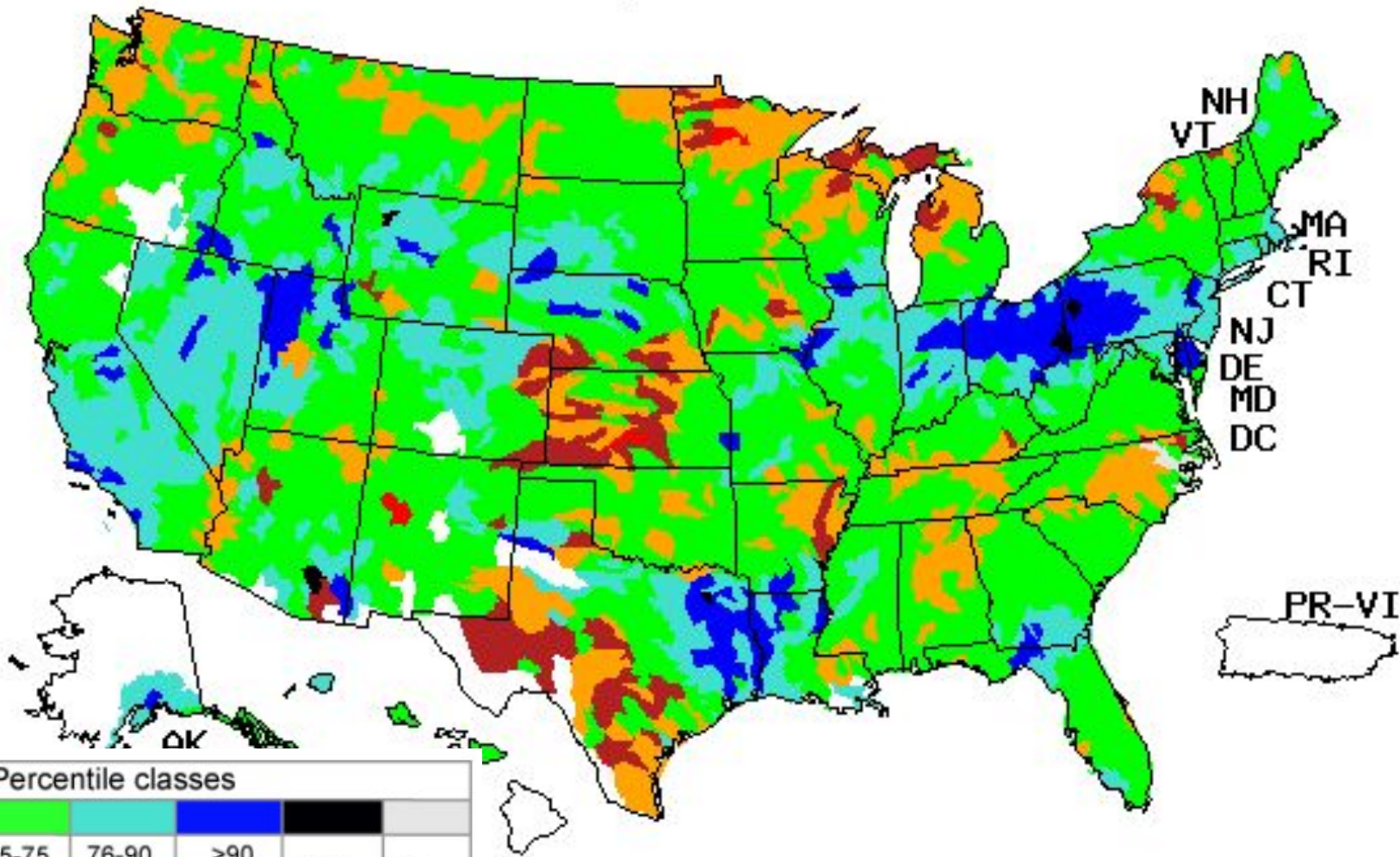


Explanation - Percentile classes

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

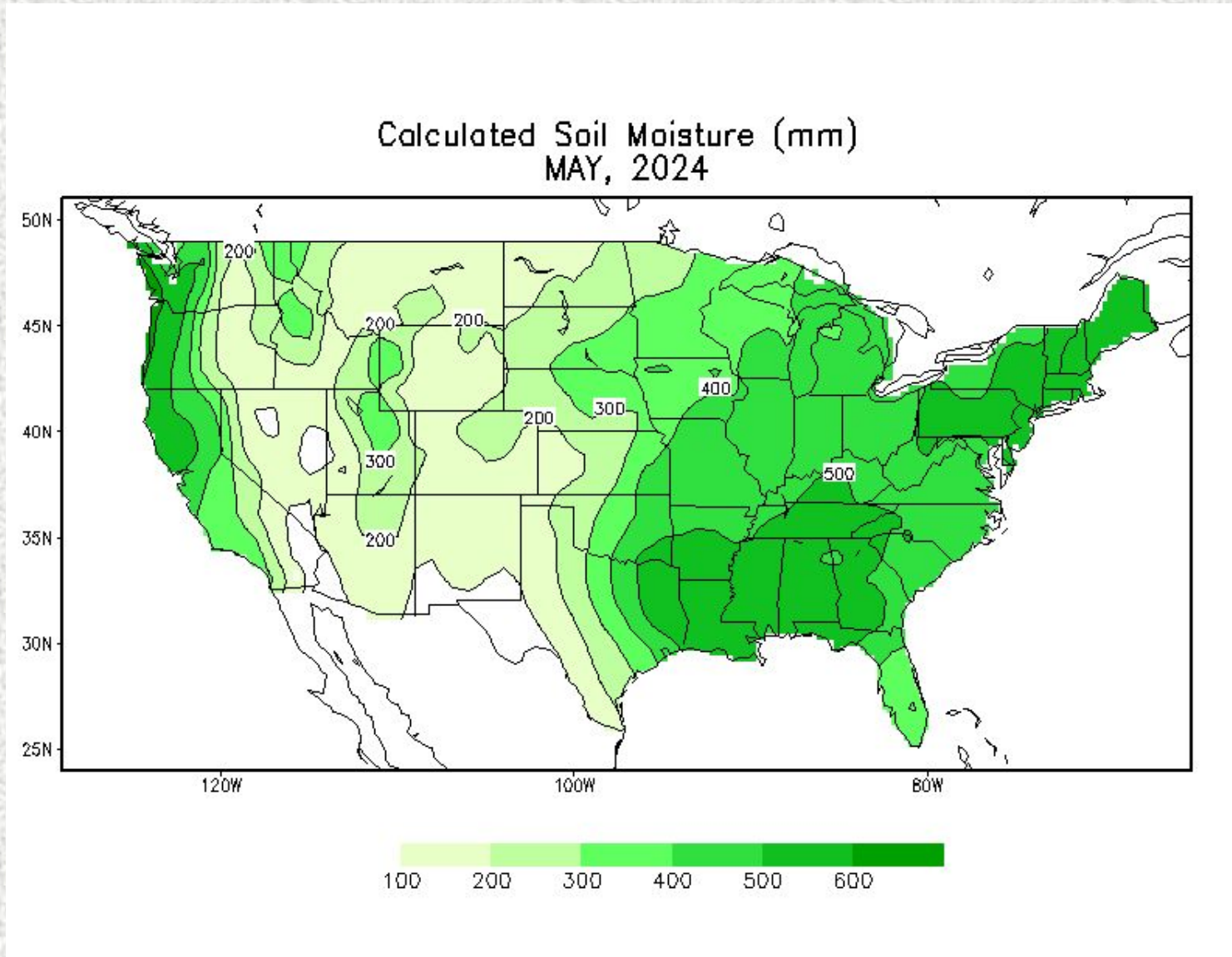
April 2024



Explanation - Percentile classes

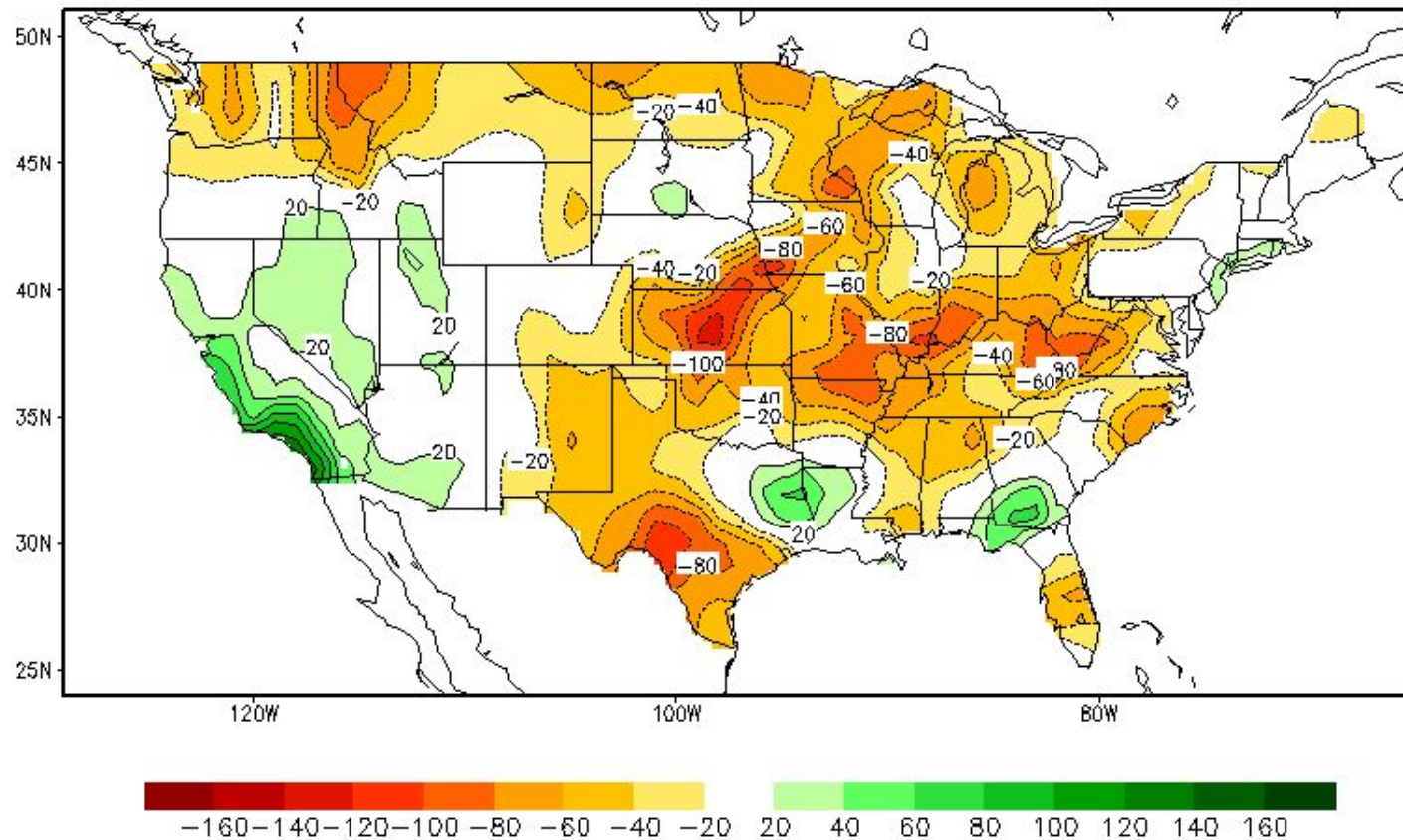
Low	<10	10-24	25-75	76-90	>90	High	No Data	
	Much below normal	Below normal	Normal	Above normal	Much above normal			

Soil Moisture

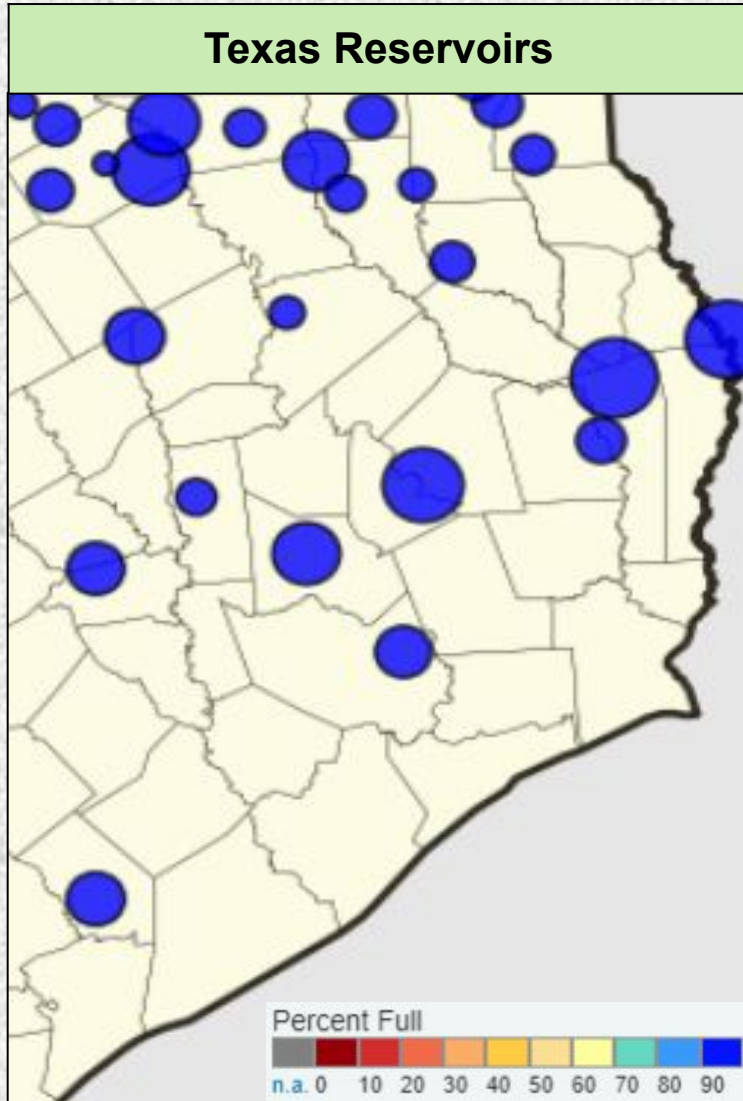


Soil Moisture Anomaly

Calculated Soil Moisture Anomaly (mm)
MAY, 2024



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	99.8%
Lake Somerville	100.0%
Lake Texana	99.7%

Data added on: June 5, 2024 at 12:00 am CDT

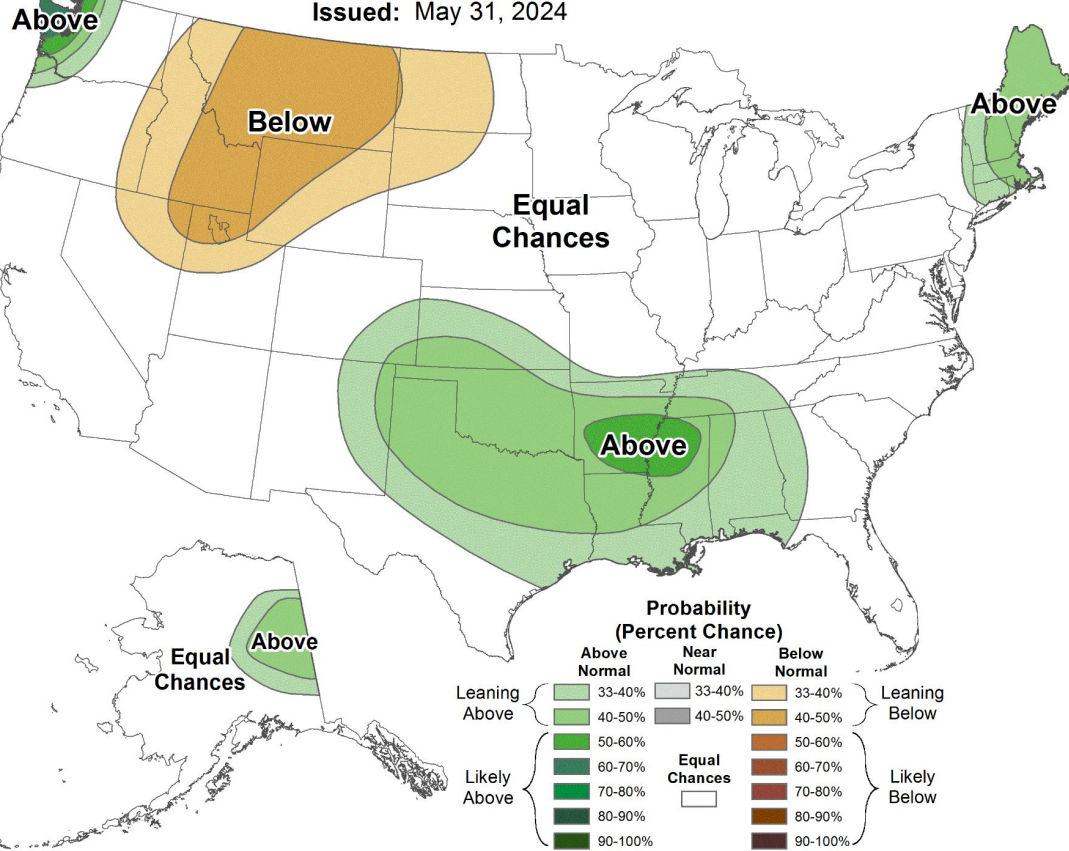
Precipitation Outlooks



Monthly Precipitation Outlook



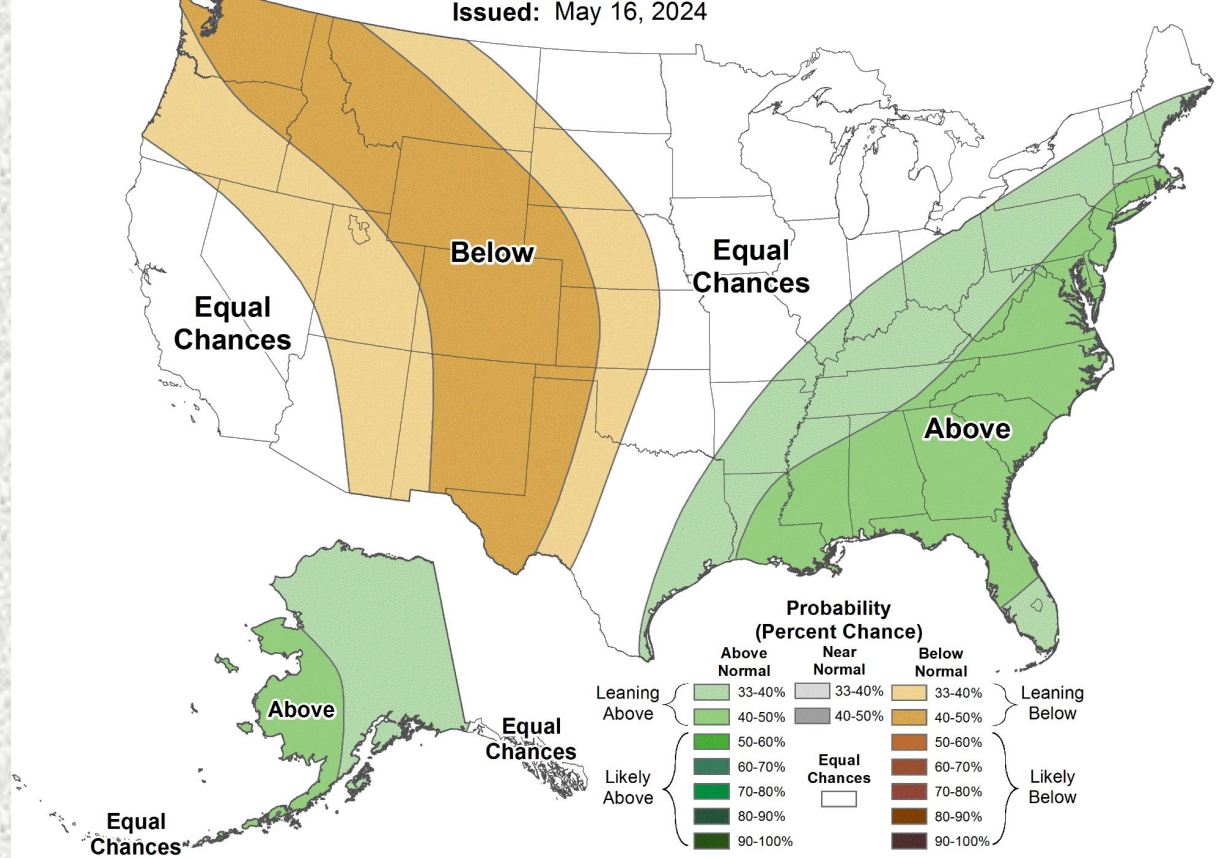
Valid: June 2024
Issued: May 31, 2024



Seasonal Precipitation Outlook



Valid: Jun-Jul-Aug 2024
Issued: May 16, 2024



Flood Products Issued

Product	Number Issued
Flash Flood Watch (FFA)	3 (ETN: 004-006)
Flash Flood Warning (FFW)	26 (ETN: 021-046)
Flash Flood Statement (FFS)	19
Areal Flood Warning	31 (ETN: 014-032)
River Flood Warnings (FLW)	66 (ETN: 062-107)
River Flood Statements	302
Flood Advisories (FLS)	38 (ETN: 037-074)
Probabilistic Hydrologic Outlook (ESF)	6