

NWS Houston/Galveston Monthly Hydrologic Report January 2023

Produced by: Cameron Batiste

Date: 02/07/2023

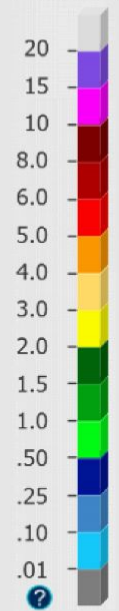
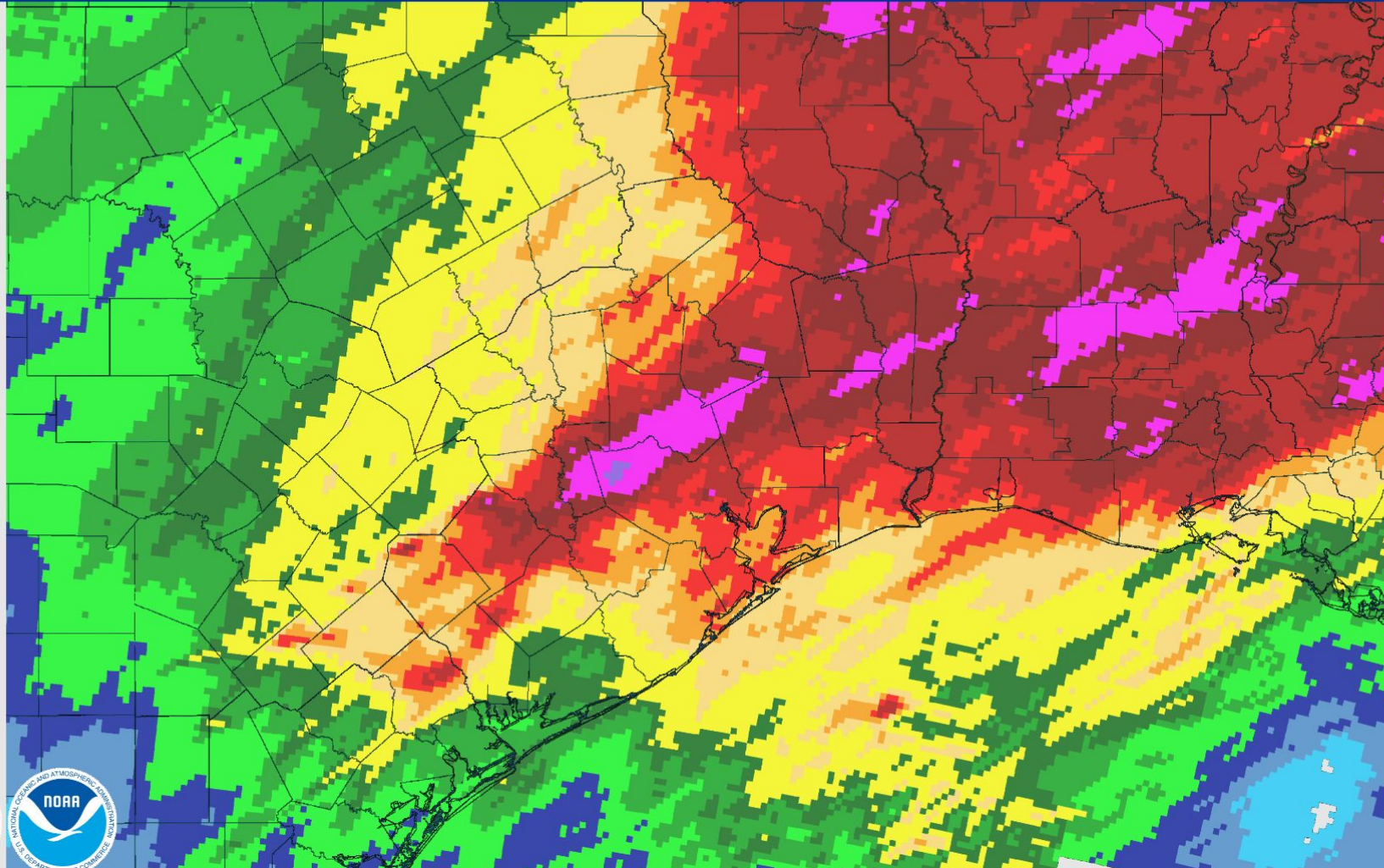
January was abnormally wet for locations around the Houston metro area and northward, especially towards the end of the month where some locations stretching from Waller County to Liberty County received over 10" of rain. There were 22 Flood Advisories and 19 River Flood Warnings, so the heavy rainfall had an impact on both urban areas and the watersheds and rivers. The month's most notable event will be the series of tornadoes that accompanied the heavy rainfall on January 24th where an EF-3 tornado moved through southeastern Harris County.

Monthly Precipitation

January 01, 2023 Monthly Observed Precipitation

Created on: February 07, 2023 - 21:26 UTC

Valid on: February 01, 2023 12:00 UTC

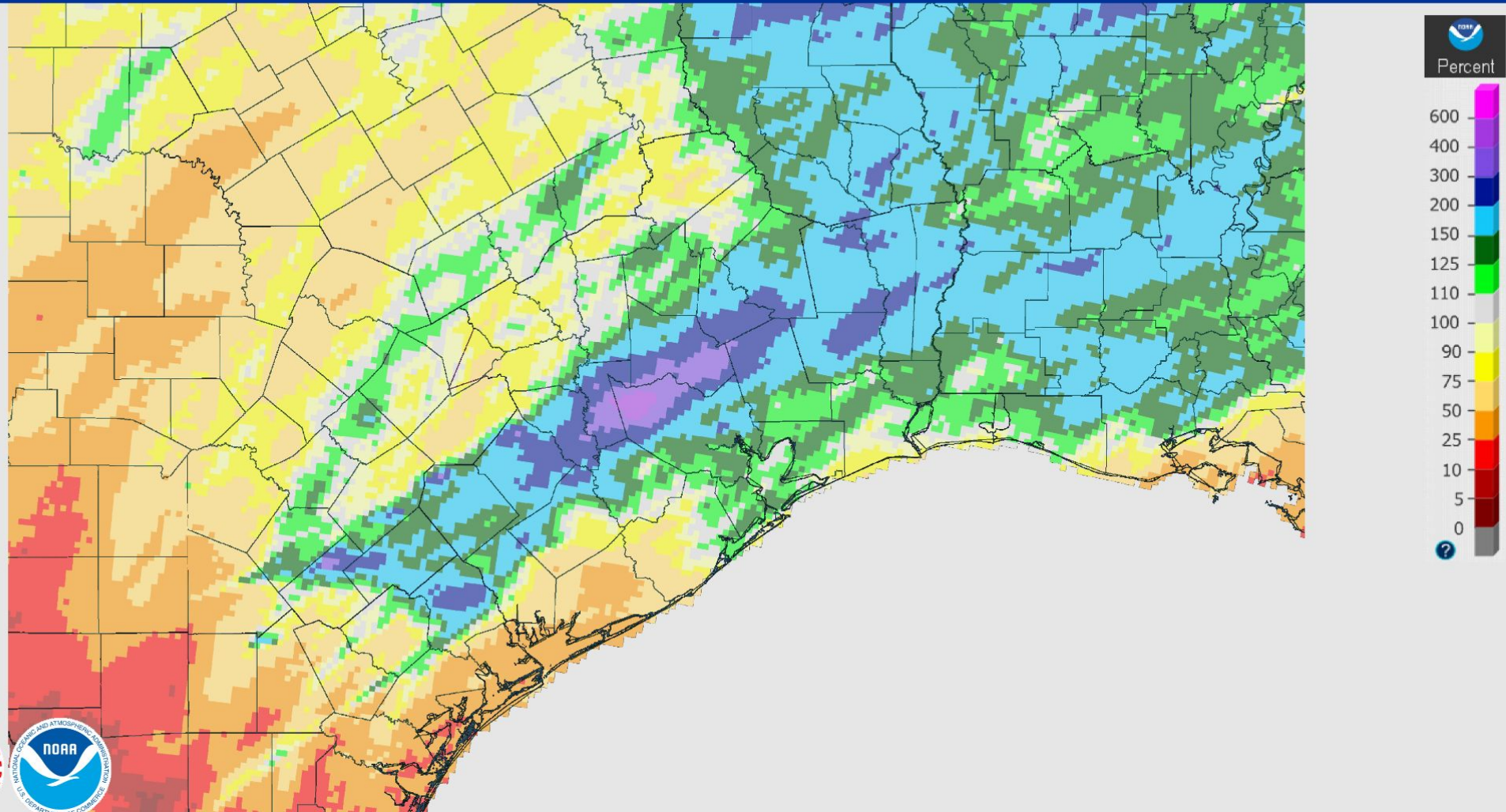


Monthly Percent of Normal Precipitation

January 01, 2023 Monthly Percent Precipitation

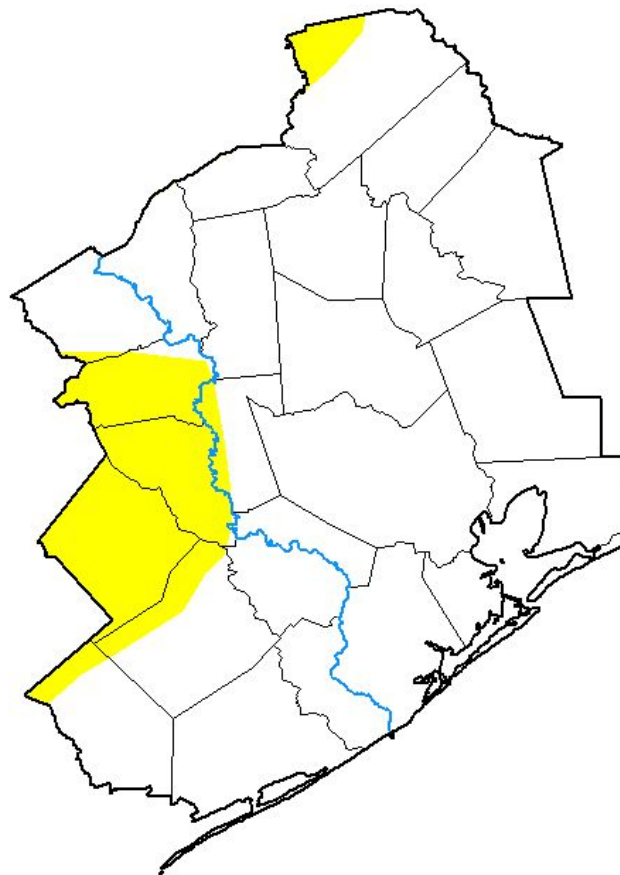
Created on: February 07, 2023 - 21:28 UTC

Valid on: February 01, 2023 12:00 UTC



U.S. Drought Monitor

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



January 31, 2023
(Released Thursday, Feb. 2, 2023)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	85.69	14.31	0.00	0.00	0.00	0.00
Last Week <small>01-24-2023</small>	82.98	17.02	6.96	0.00	0.00	0.00
3 Months Ago <small>11-01-2022</small>	0.00	100.00	87.54	26.46	5.76	0.00
Start of Calendar Year <small>01-03-2023</small>	84.11	15.89	6.96	0.00	0.00	0.00
Start of Water Year <small>09-27-2022</small>	32.19	67.81	21.97	4.76	0.83	0.00
One Year Ago <small>02-01-2022</small>	28.61	71.39	44.50	4.52	0.20	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



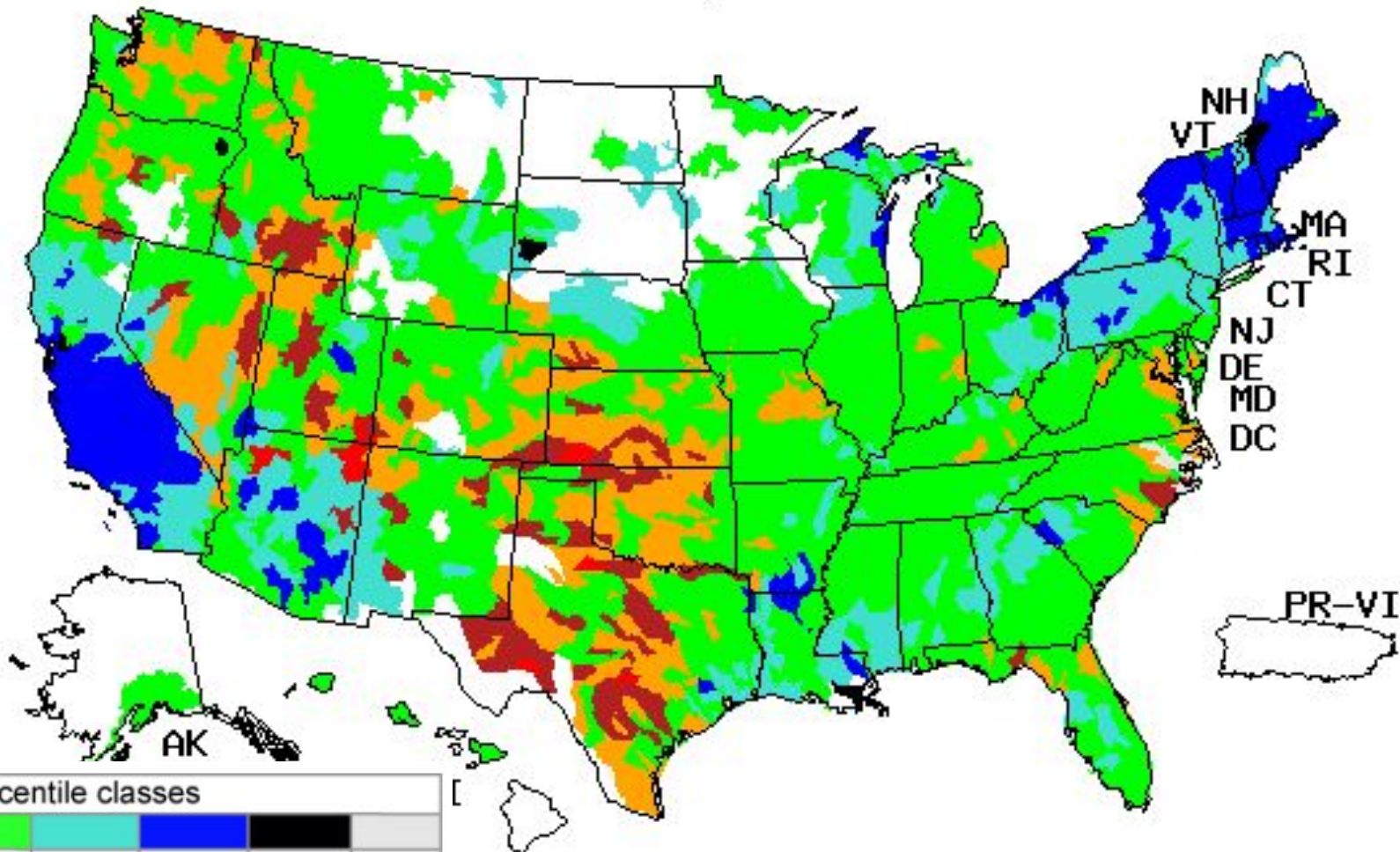
droughtmonitor.unl.edu

River Flooding

River and Station	Flood Stage (feet)	Crest Stage (feet)	Crest Date
San Bernard River near Boling (BOLT2)	18.0	19.37	Jan 29th (02:45Z)
San Bernard River near East Bernard (EBBT2)	17.0	18.56	Jan 26th (17:00Z)
		17.12	Jan 30th (06:00Z)
		17.87	Jan 31st (18:00Z)
West Fork San Jacinto River near Humble (HMMT2)	49.3	49.41	Jan 25th (10:05Z)
		50.53	Jan 30th (10:50Z)
East Fork San Jacinto River near New Caney (NCET2)	58.0	58.36	Jan 30th (12:00Z)
Menard Creek near Rye (RYET2)	20.0	21.80	Jan 30th (09:15Z)

Monthly Average Streamflow

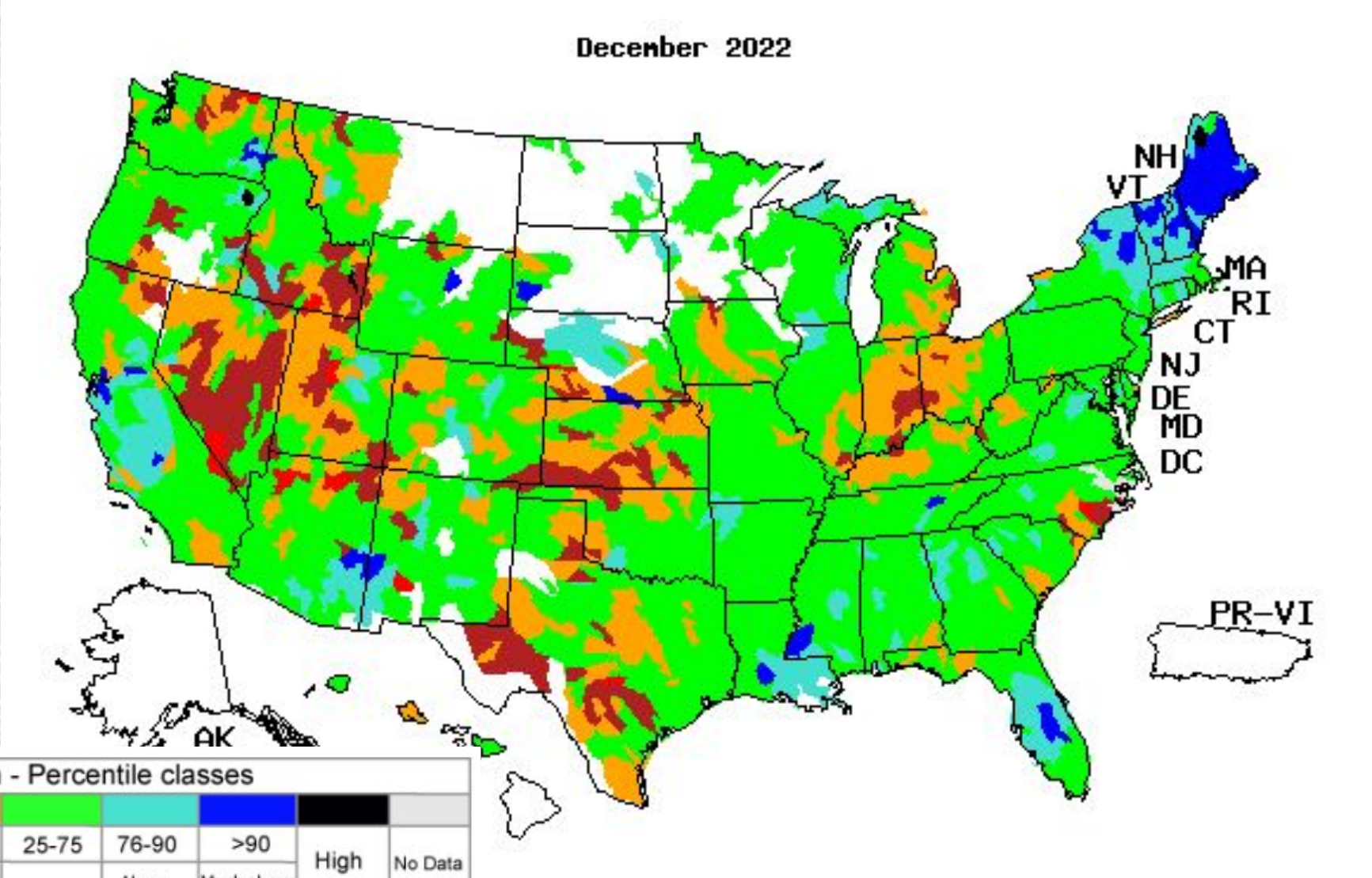
January 2023



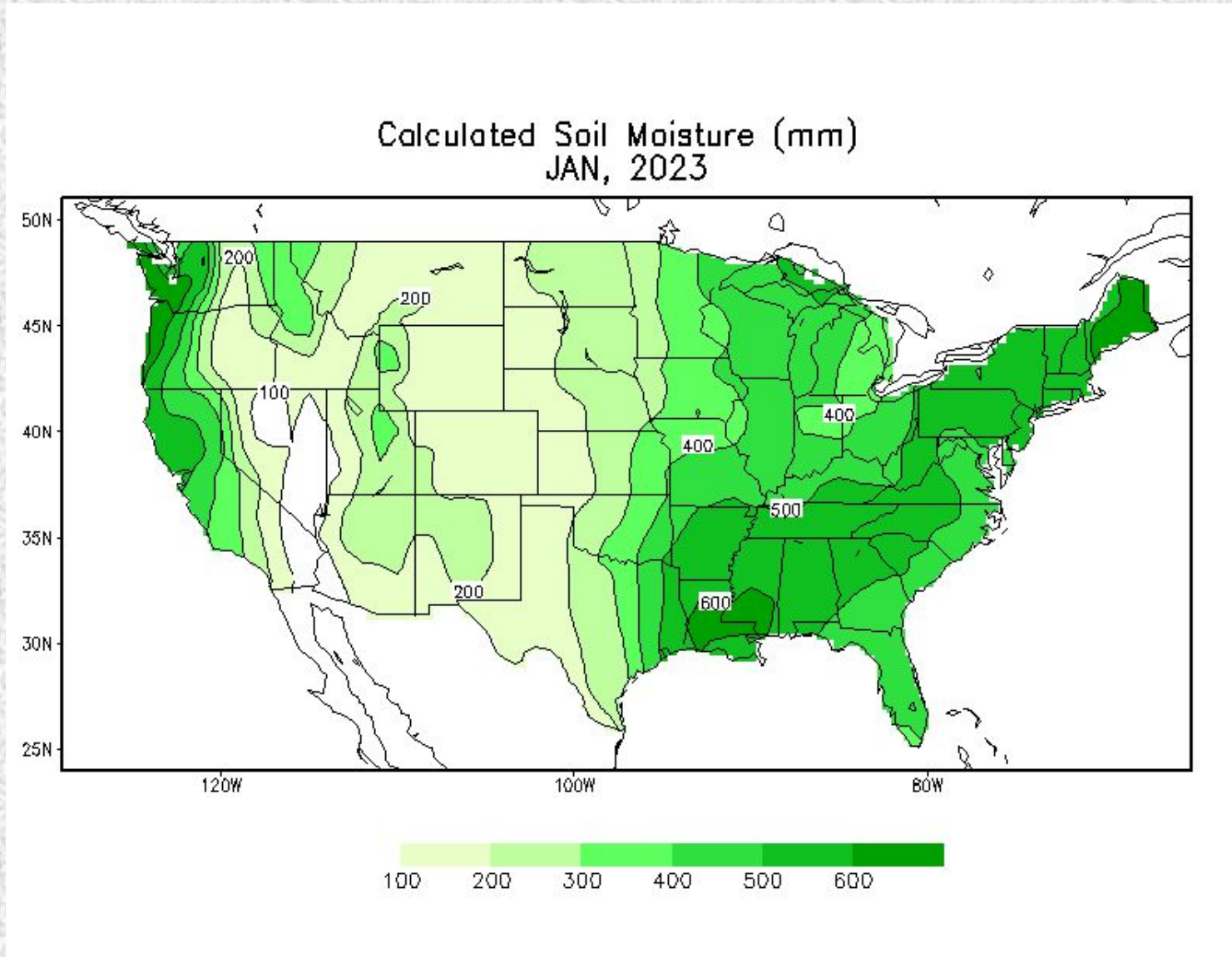
Explanation - Percentile classes

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

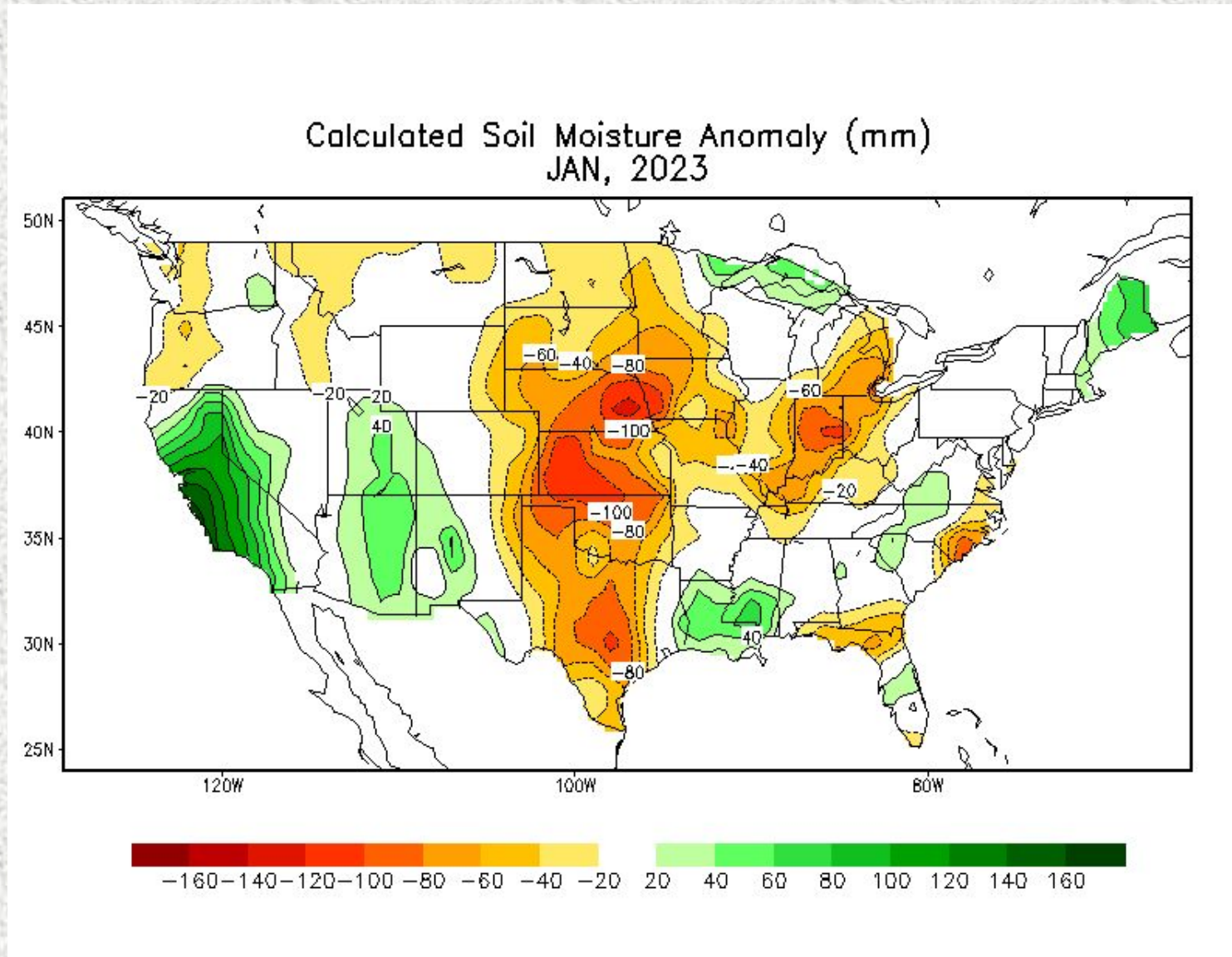
Previously Monthly Average Streamflow



Soil Moisture



Soil Moisture Anomaly



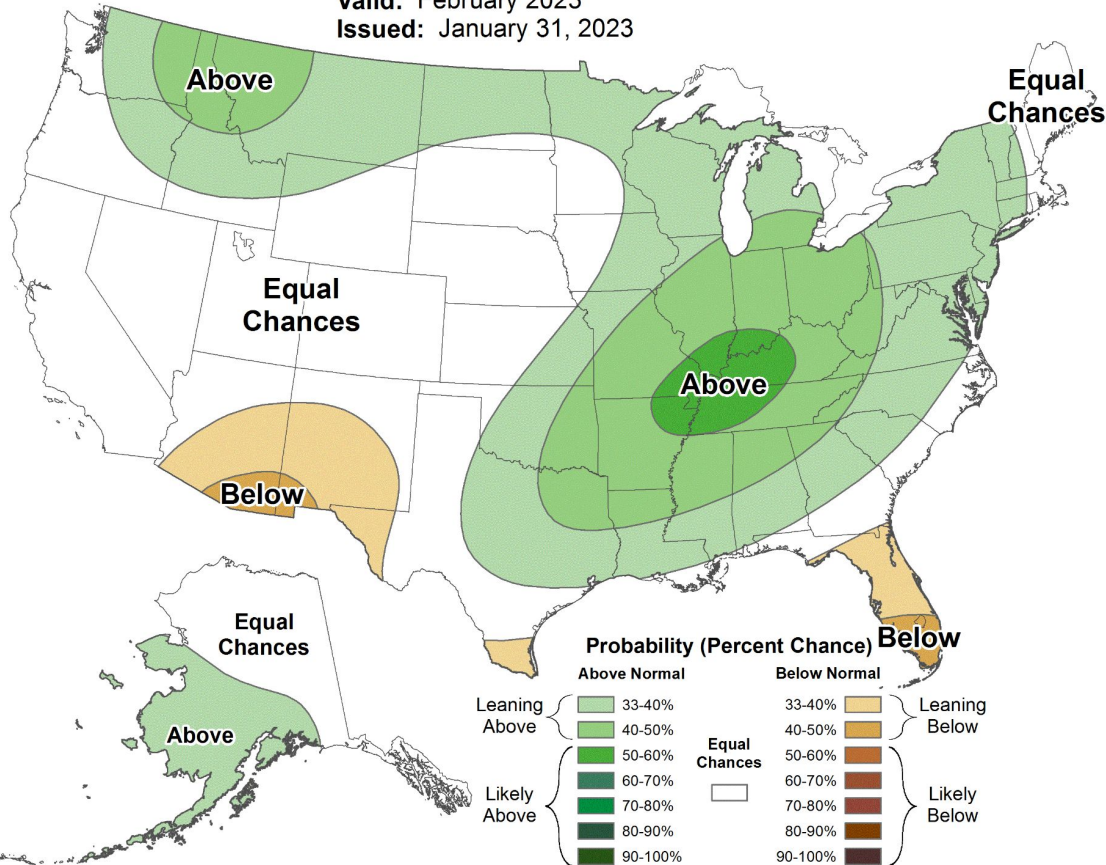
Precipitation Outlooks



Monthly Precipitation Outlook



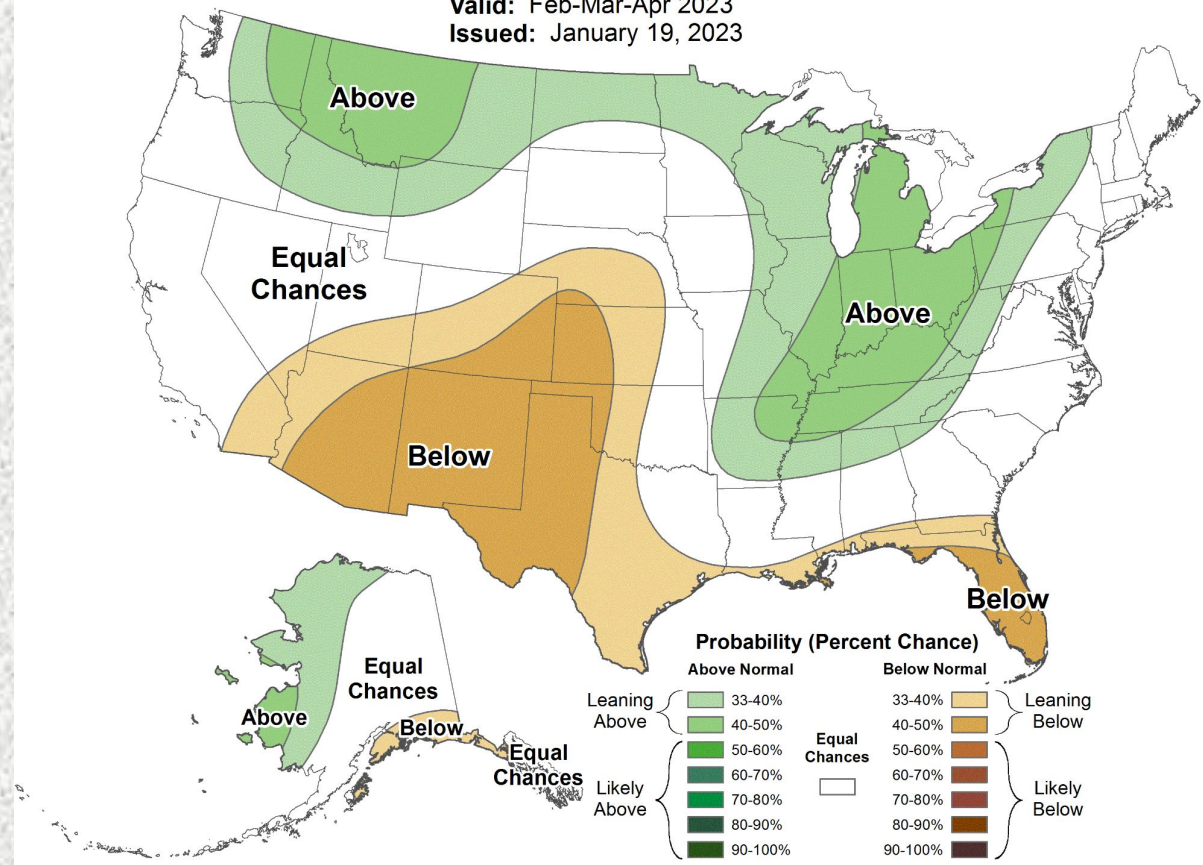
Valid: February 2023
Issued: January 31, 2023



Seasonal Precipitation Outlook



Valid: Feb-Mar-Apr 2023
Issued: January 19, 2023



Flood Products Issued

Product	Number Issued
Flash Flood Watch (FFA)	1 (ETN: 001)
Flash Flood Warning (FFW)	3 (ETN: 001-003)
Flash Flood Statement (FFS)	2
Areal Flood Warning	5 (ETN: 001-005)
River Flood Warnings (FLW)	19 (ETN: 001-019)
River Flood Statements	41
Flood Advisories (FLS)	22 (ETN: 001-022)
Probabilistic Hydrologic Outlook (ESF)	6