

NWS Houston/Galveston Monthly Hydrologic Report February 2023

Produced by: Cameron Batiste

Date: 03/04/2023

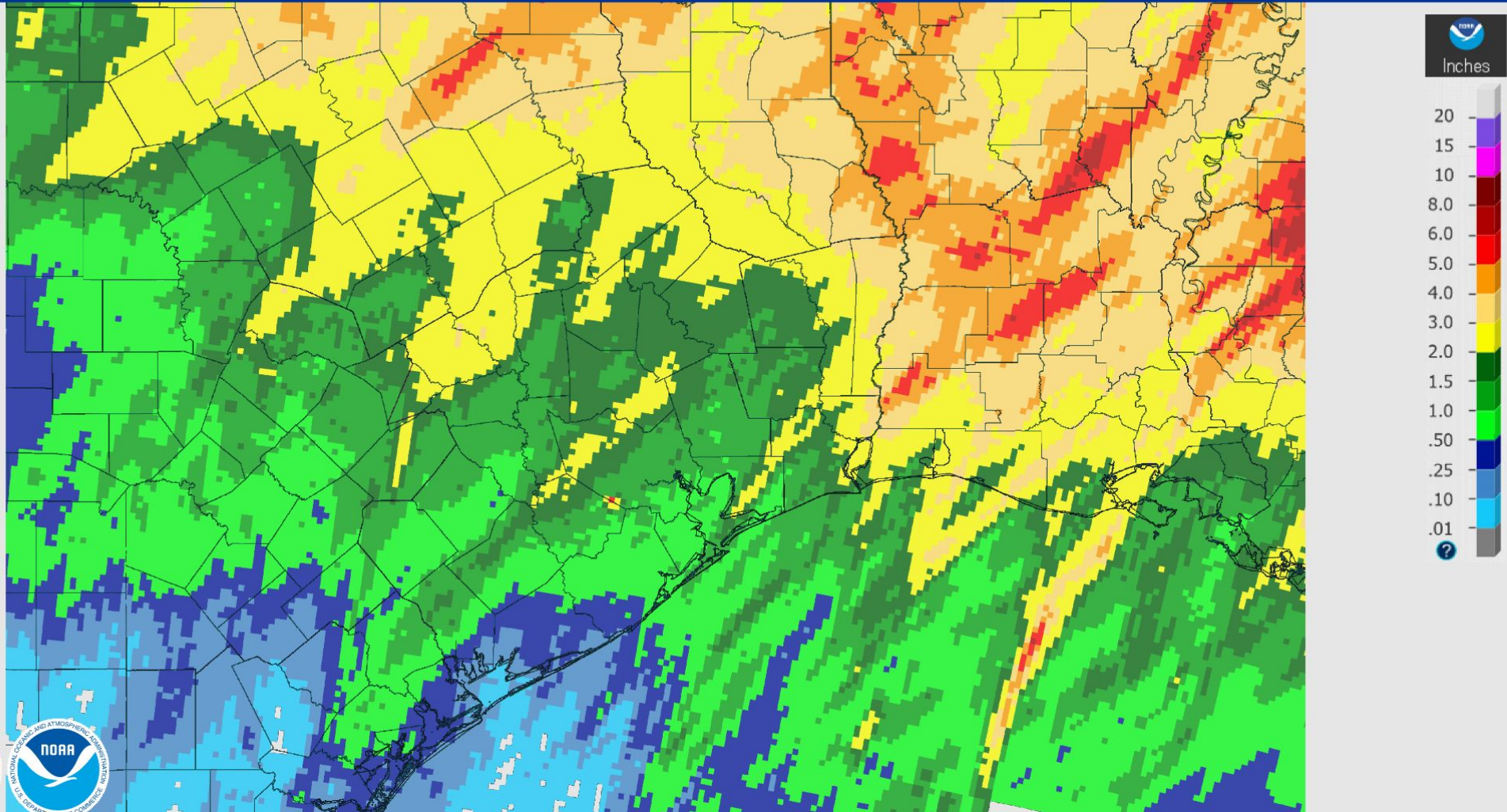
February was rather dry, especially compared to the abnormally wet January. Residual river flooding from the late January event highlighted the beginning of the month along with the mini winter storm that impacted portions of the Brazos Valley. Most of Southeast Texas only received one to two inches of rainfall this month with areas near Matagorda Bay receiving less of an inch. As a result, portions of Brazoria, Matagorda, and Jackson counties were added into a D1 drought.

Monthly Precipitation

February 01, 2023 Monthly Observed Precipitation

Created on: March 04, 2023 - 19:52 UTC

Valid on: March 01, 2023 12:00 UTC

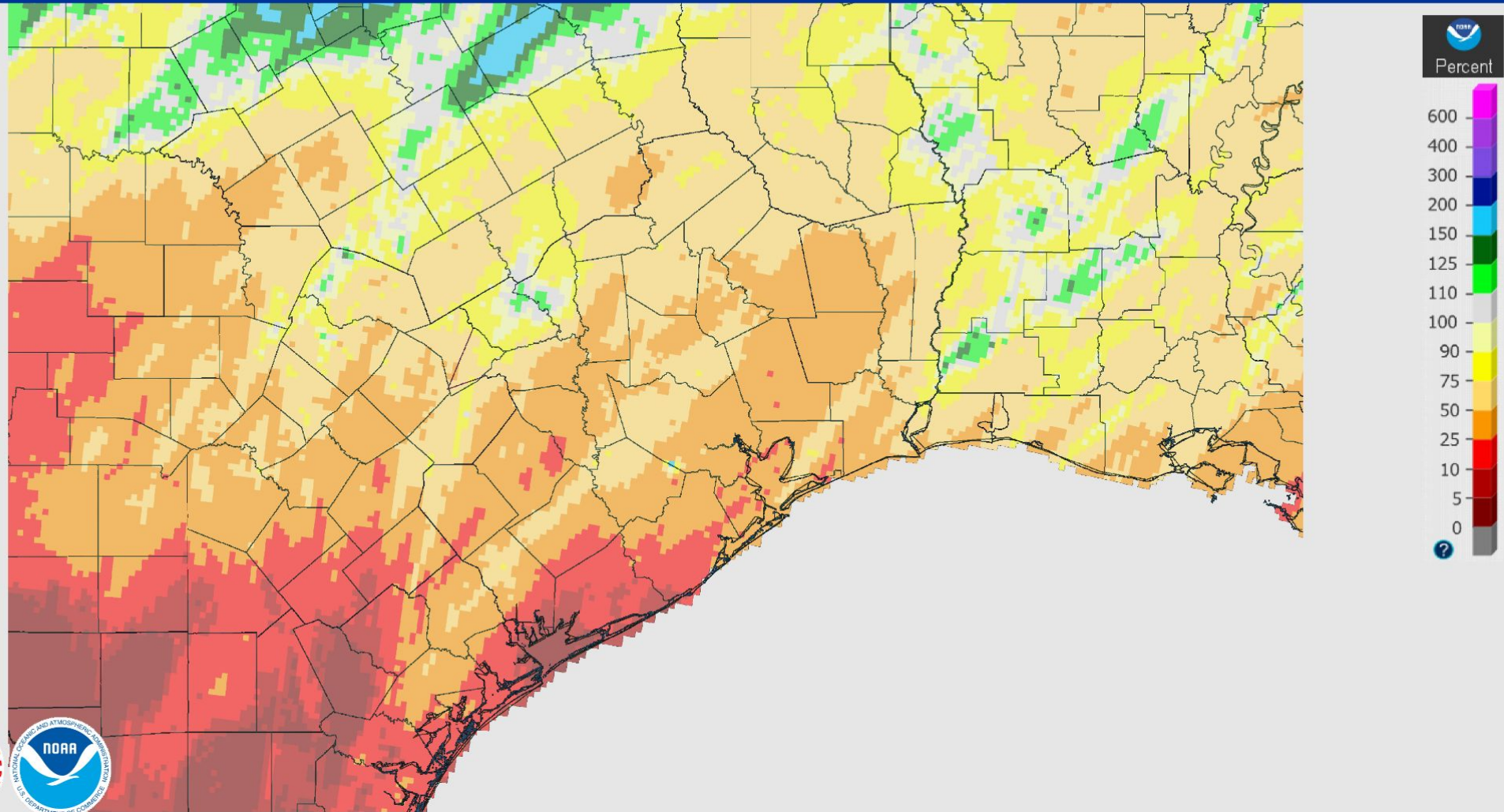


Monthly Percent of Normal Precipitation

February 01, 2023 Monthly Percent Precipitation

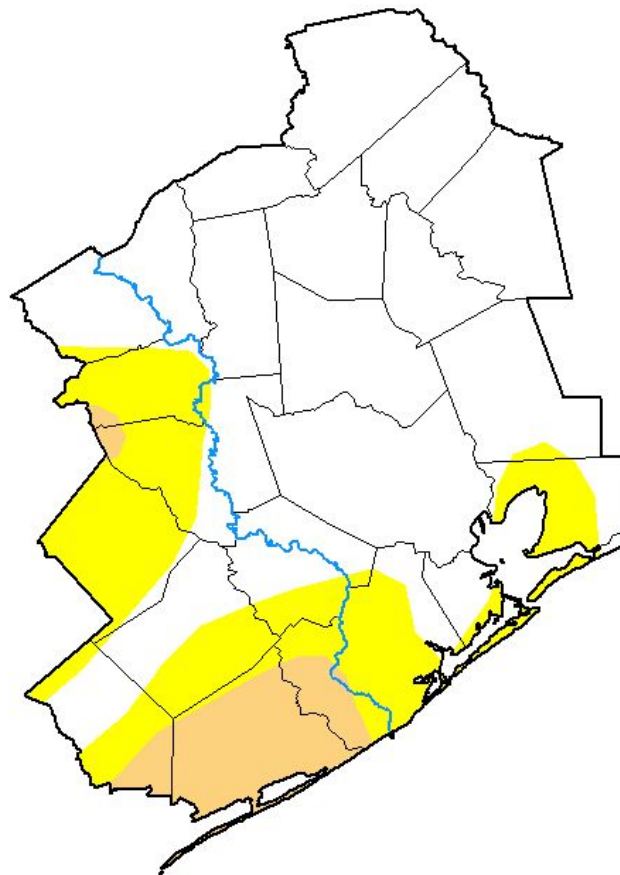
Created on: March 04, 2023 - 19:54 UTC

Valid on: March 01, 2023 12:00 UTC



U.S. Drought Monitor

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



February 28, 2023

(Released Thursday, Mar. 2, 2023)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	69.44	30.56	7.92	0.00	0.00	0.00
Last Week <i>02-21-2023</i>	77.45	22.55	0.00	0.00	0.00	0.00
3 Months Ago <i>11-29-2022</i>	48.46	51.54	15.32	4.40	0.00	0.00
Start of Calendar Year <i>01-03-2023</i>	84.11	15.89	6.96	0.00	0.00	0.00
Start of Water Year <i>09-27-2022</i>	32.19	67.81	21.97	4.76	0.83	0.00
One Year Ago <i>03-01-2022</i>	16.81	83.19	31.87	3.45	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:

Richard Heim
NCEI/NOAA



droughtmonitor.unl.edu

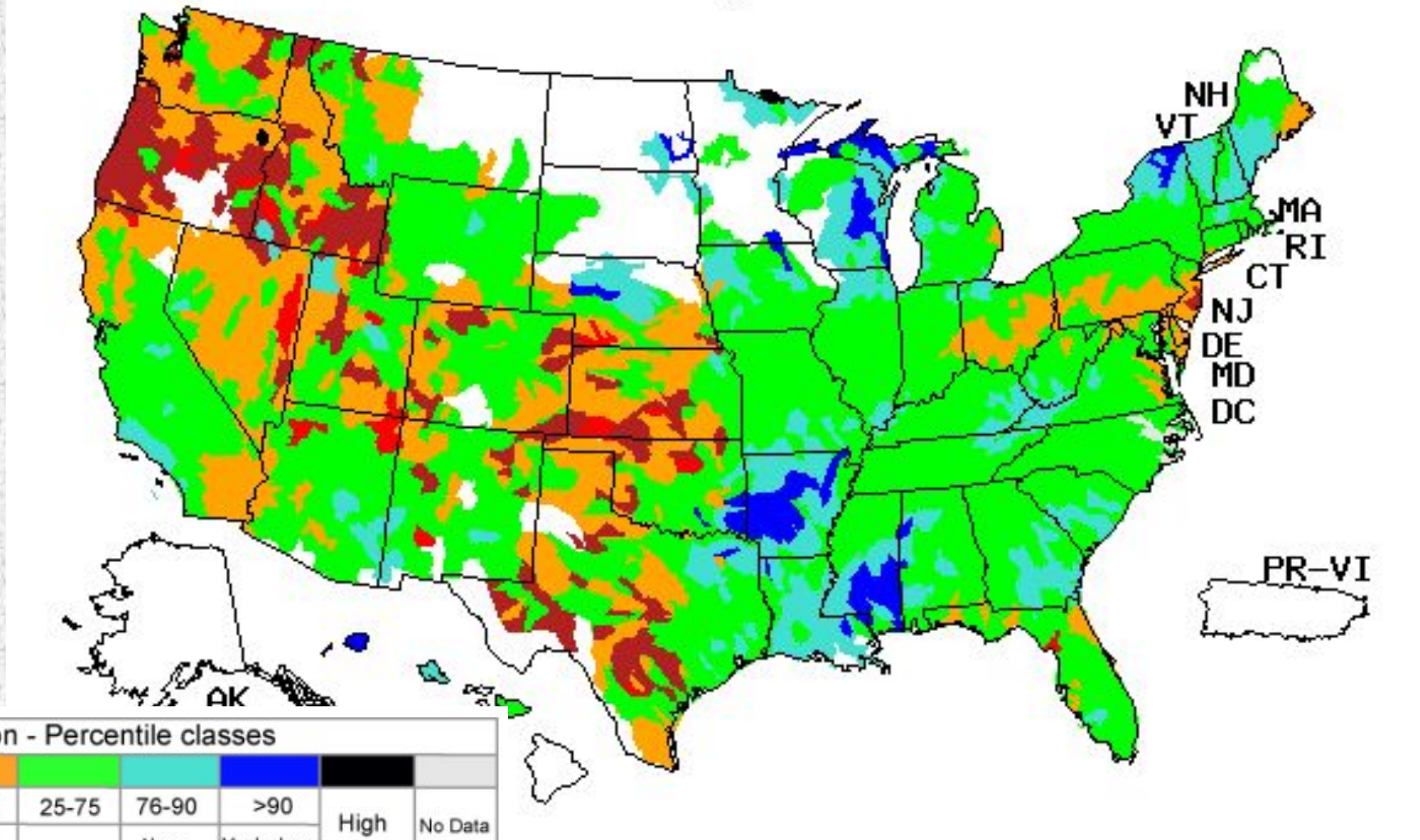
River Flooding

River and Station	Flood Stage (feet)	Crest Stage (feet)	Crest Date
San Bernard River near Boling (BOLT2)	18.0	19.58	Feb 2nd (16:30Z)
San Bernard River near East Bernard (EBBT2)	17.0	17.87	Jan 31st (18:00Z)
Menard Creek near Rye (RYET2)	20.0	20.83	Feb 1st (04:30Z)

Drops below flood stage on February 1st

Monthly Average Streamflow

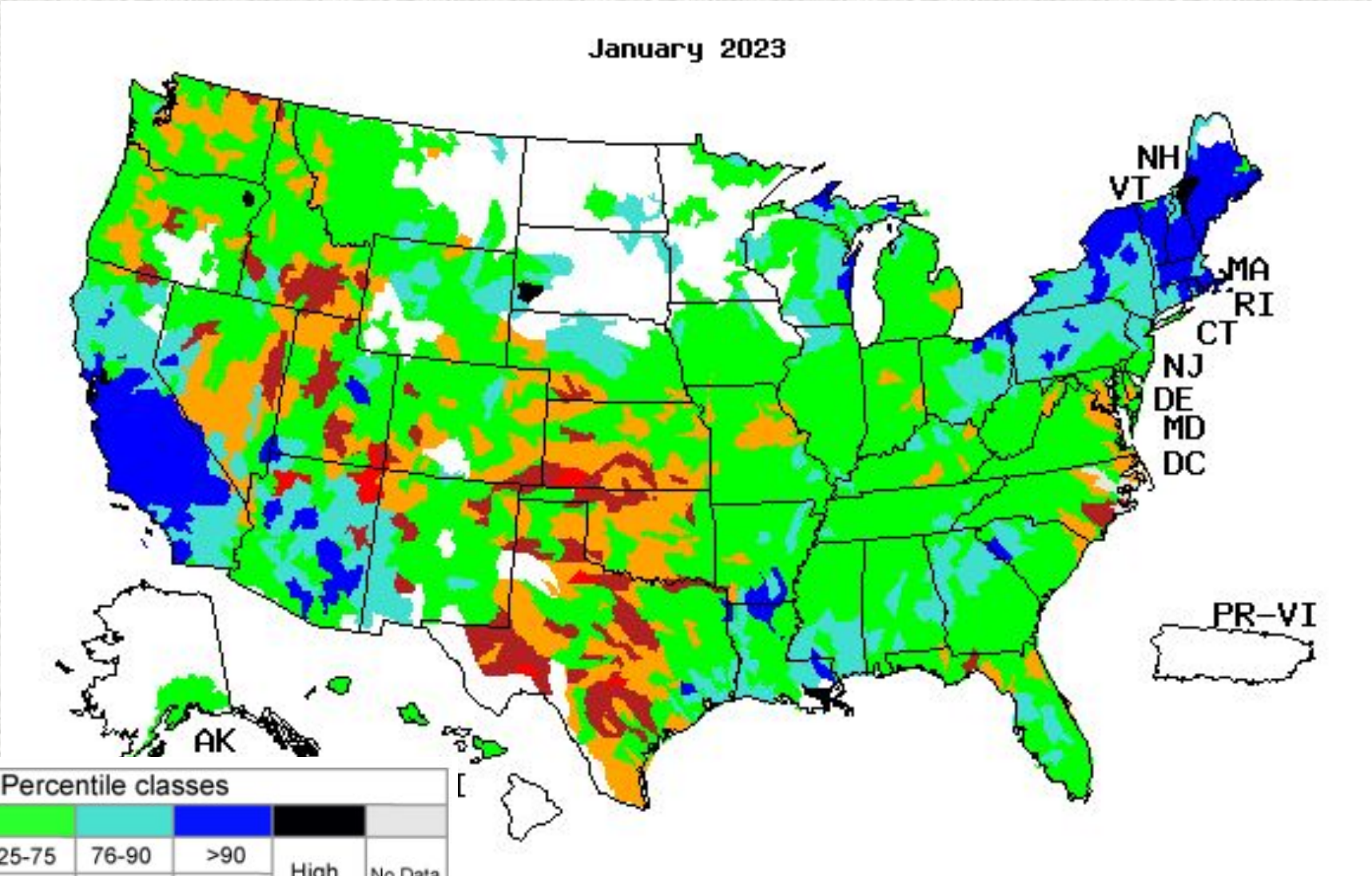
February 2023



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			

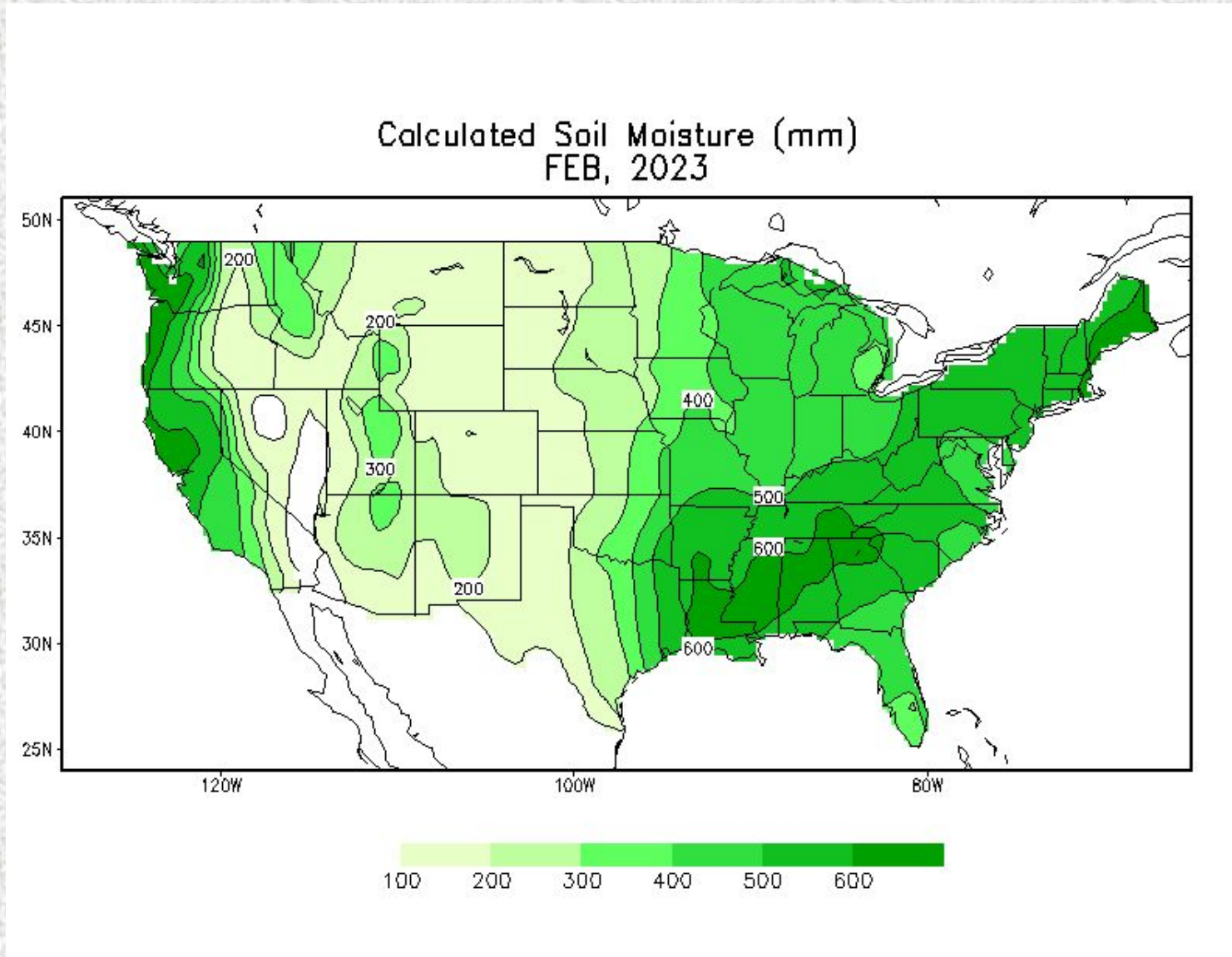
Previously Monthly Average Streamflow



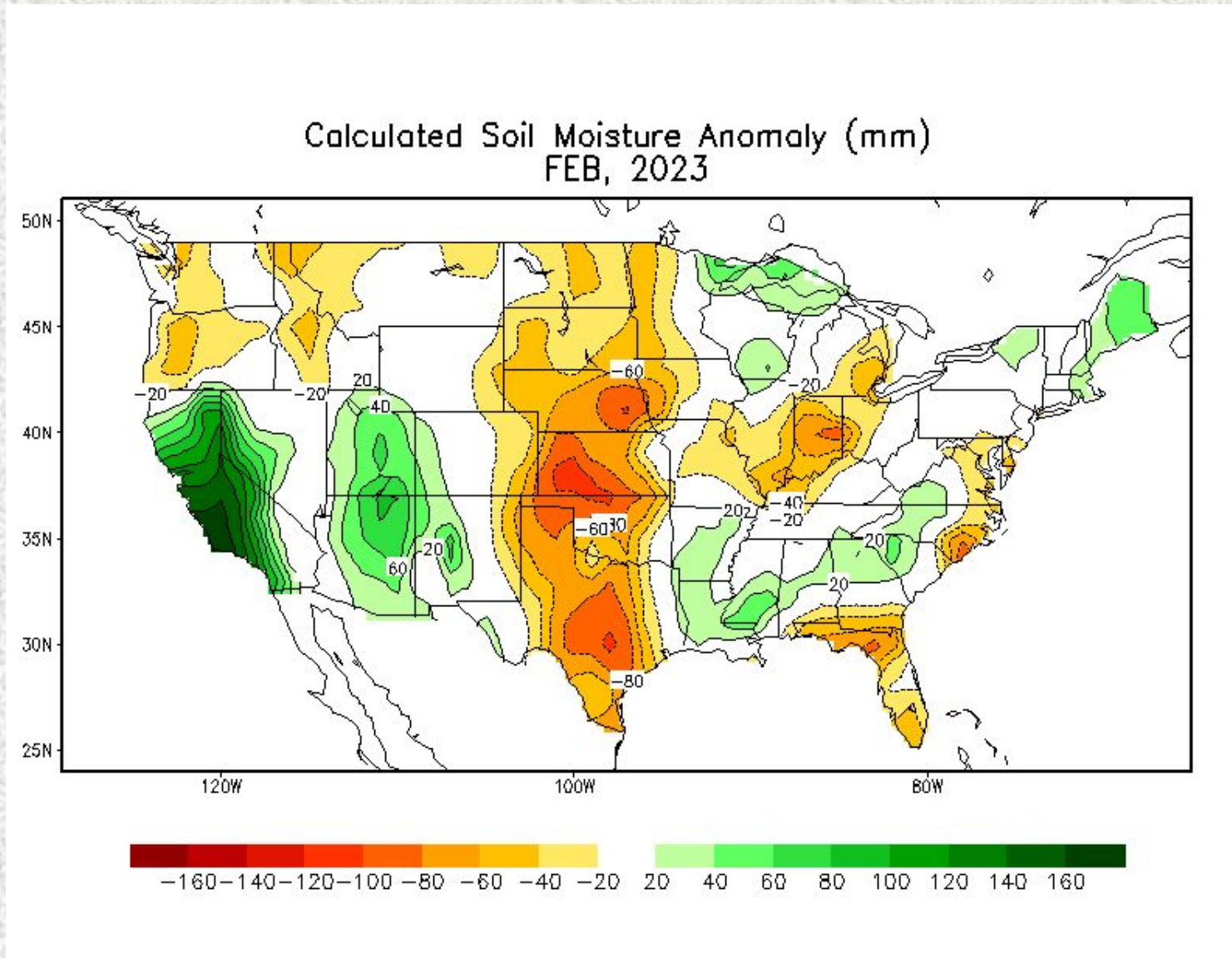
Explanation - Percentile classes

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

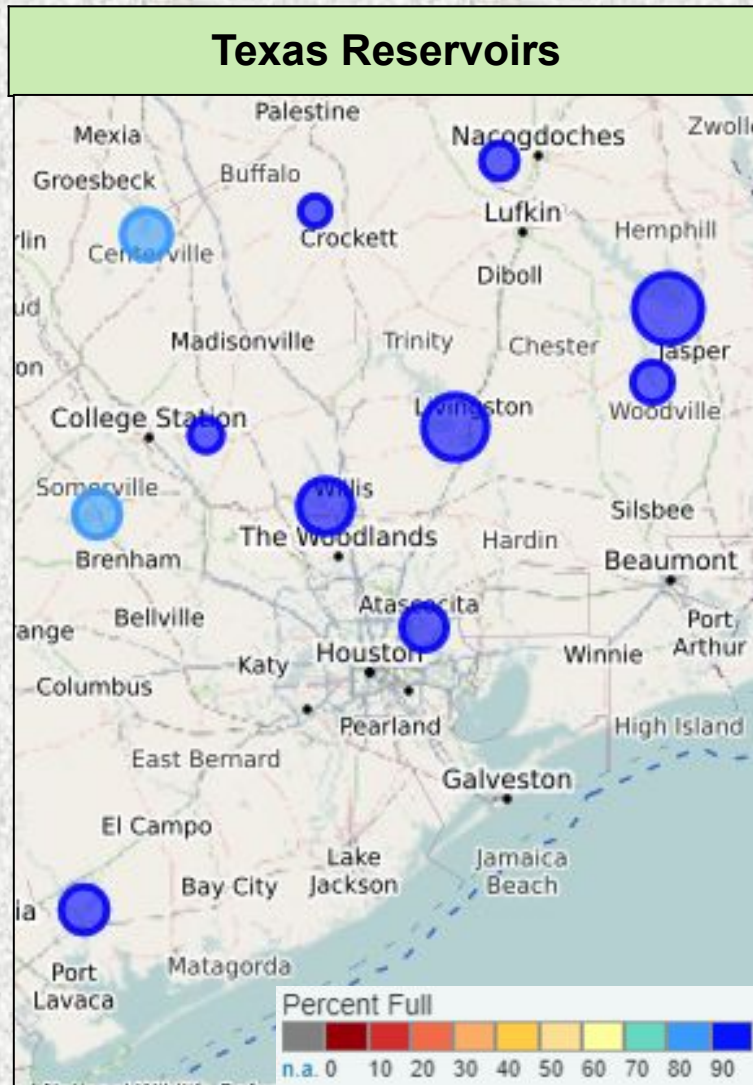
Soil Moisture



Soil Moisture Anomaly



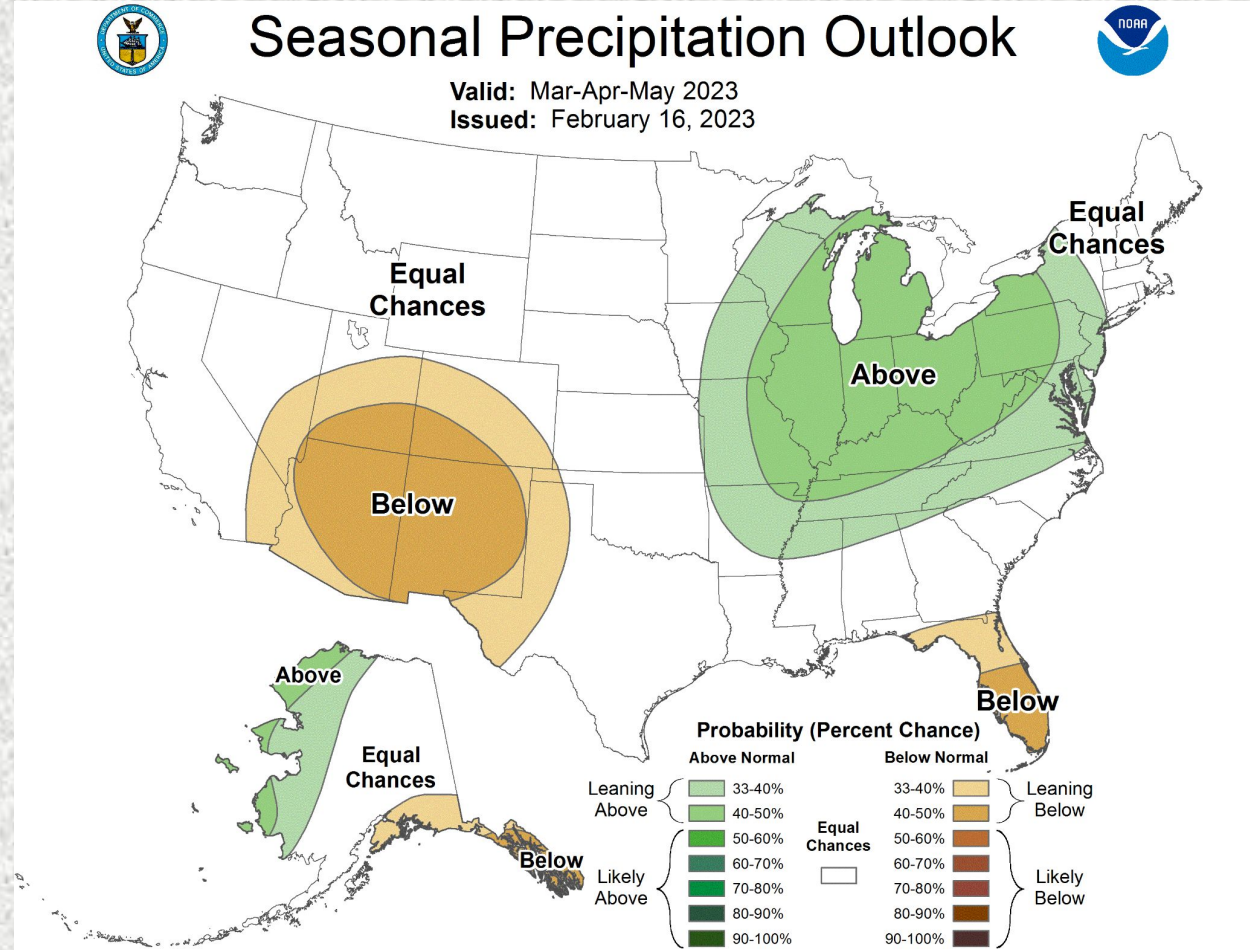
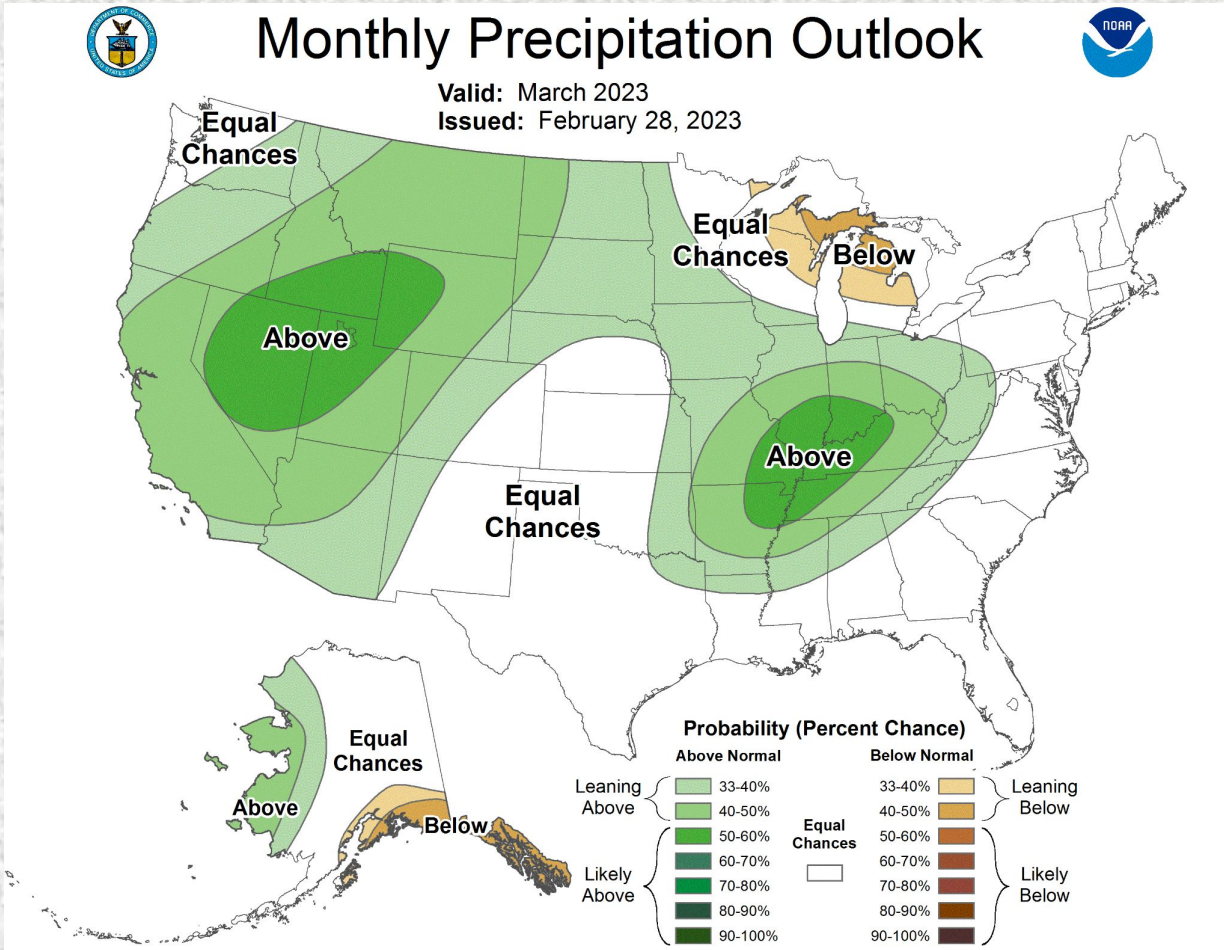
Reservoir Status



Reservoir	Percent Full Conservation Storage
Houston County Lake	100.0%
Lake Livingston	100.0%
Lake Conroe	100.0%
Lake Houston	100.0%
Gibbons Creek Reservoir	92.5%
Lake Somerville	81.8%
Lake Texana	95.2%

Data added on: March 22, 2023 at 2:45pm CDT

Precipitation Outlooks



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	11
Flood Advisories (FLS)	0
Probabilistic Hydrologic Outlook (ESF)	6