

# NWS Houston/Galveston Monthly Hydrologic Report March 2023

**Produced by: Cameron Batiste**

**Date: 04/03/2023**

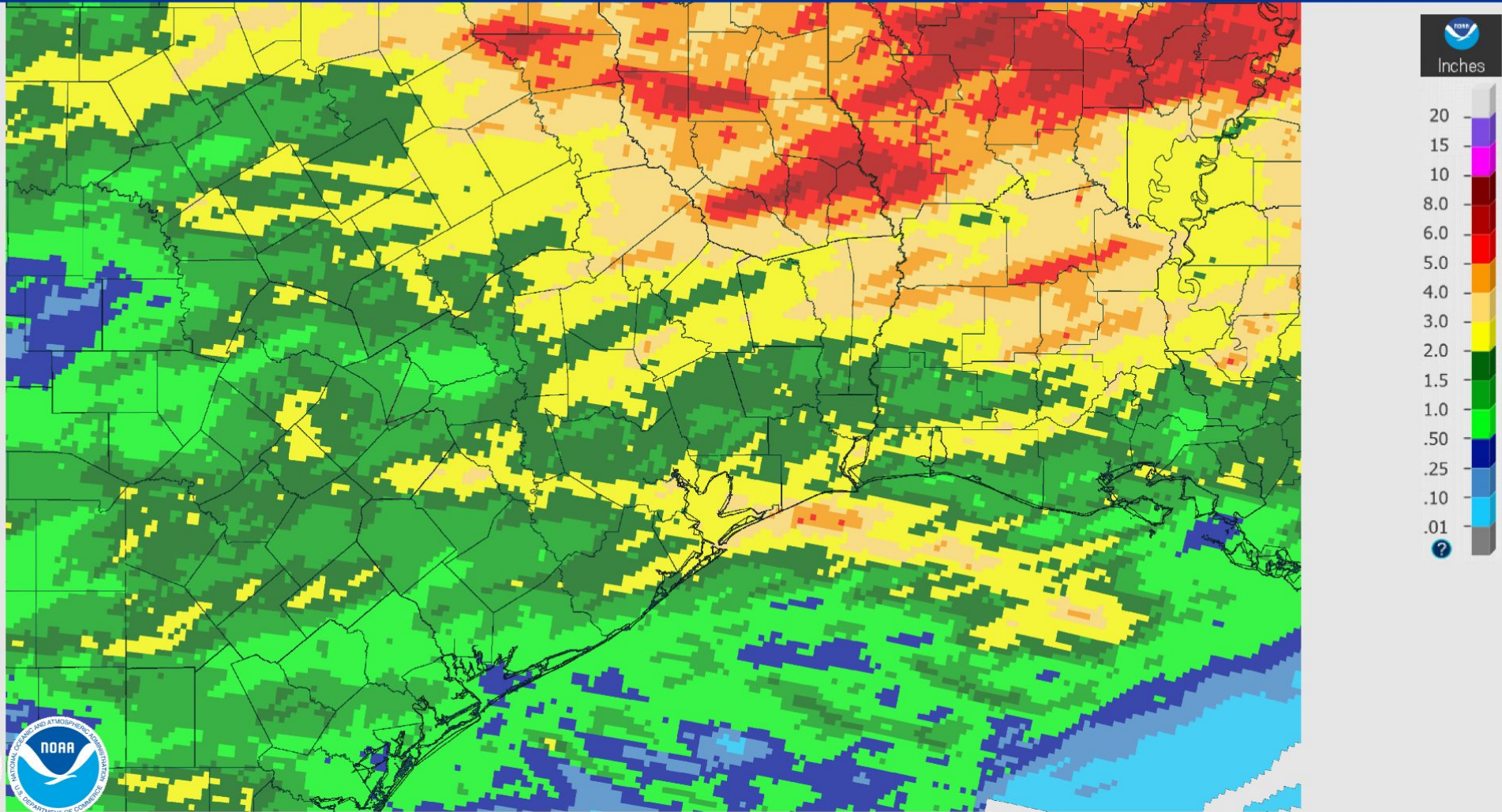
An overall uneventful month rainfall wise with areas generally east of the I-45 corridor receiving the bulk of the rainfall. As a result, drought conditions have continued to worsen in our western counties with a couple of areas of **D2 (Severe Drought)** being introduced for portions of Washington, Austin, Matagorda, Jackson, Wharton, and Brazoria Counties. Most of Southeast Texas (especially west of the I-45 corridor) was added into at least a **D0 (Abnormally Dry)** during the month of March.

# Monthly Precipitation

March 01, 2023 Monthly Observed Precipitation

Created on: April 01, 2023 - 16:53 UTC

Valid on: April 01, 2023 12:00 UTC

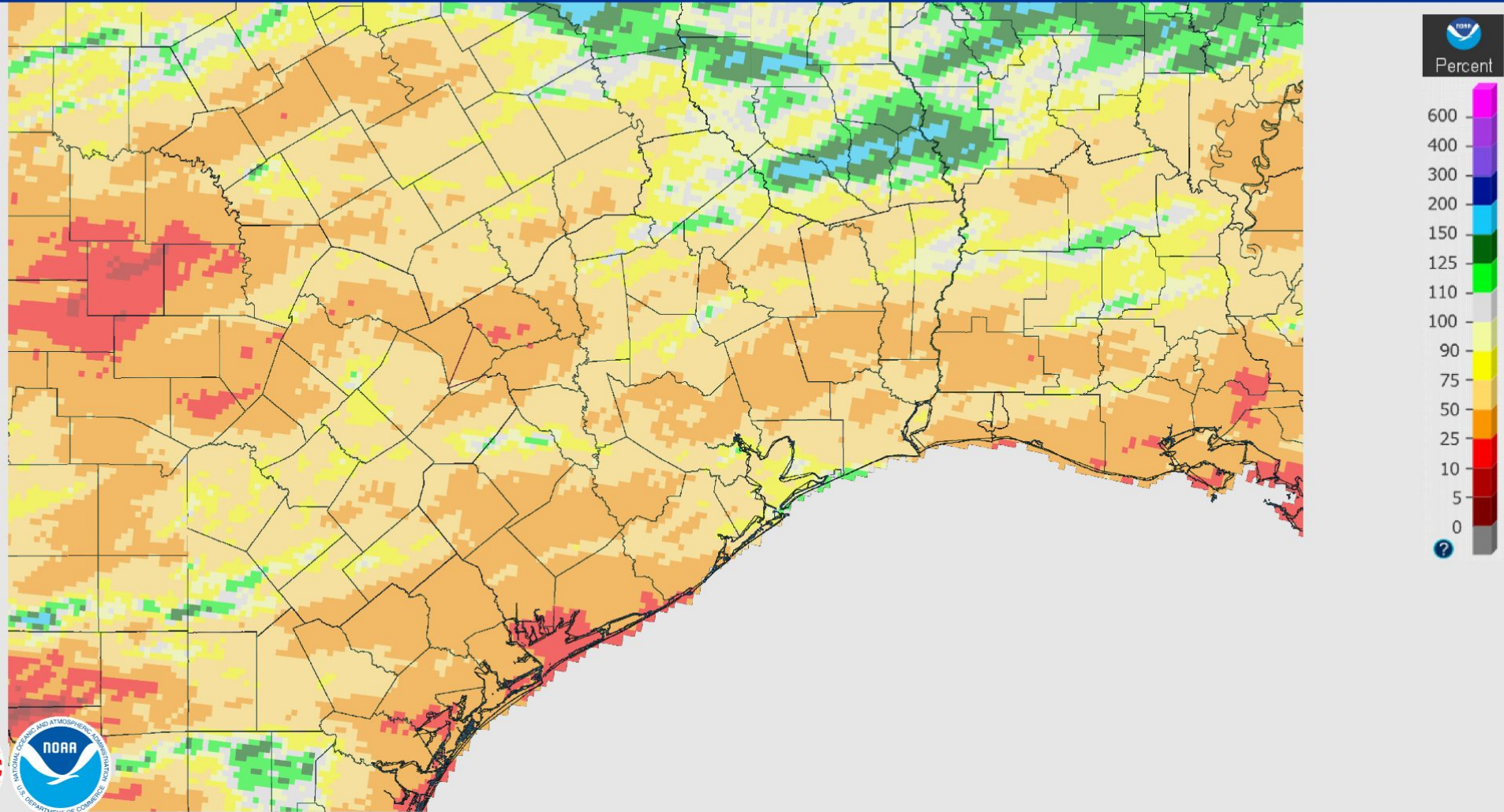


# Monthly Percent of Normal Precipitation

March 01, 2023 Monthly Percent Precipitation

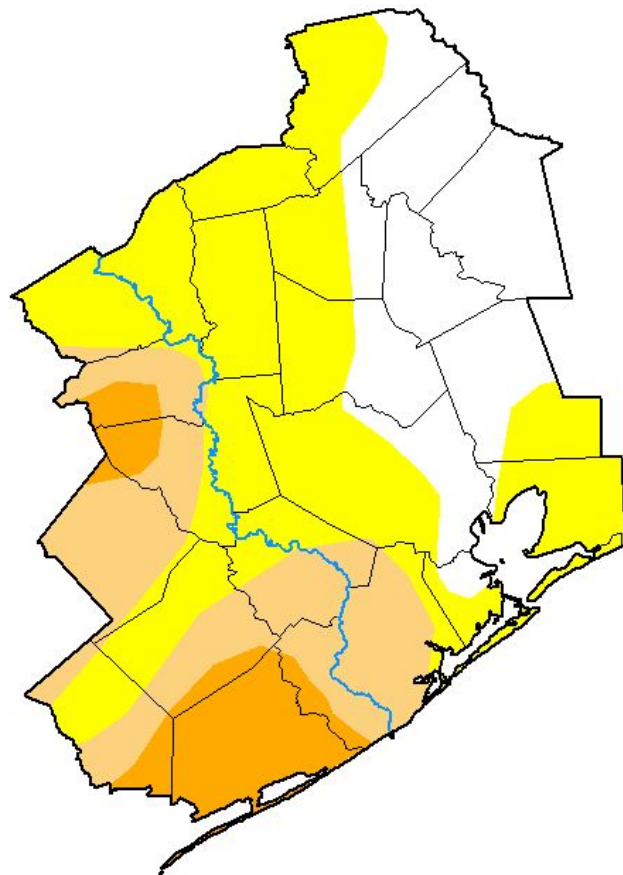
Created on: April 01, 2023 - 16:54 UTC

Valid on: April 01, 2023 12:00 UTC



# U.S. Drought Monitor

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



March 28, 2023

(Released Thursday, Mar. 30, 2023)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	26.26	73.74	29.75	9.69	0.00	0.00
<b>Last Week</b> 03-21-2023	56.98	43.02	15.91	4.09	0.00	0.00
<b>3 Months Ago</b> 12-27-2022	77.80	22.20	7.80	0.00	0.00	0.00
<b>Start of Calendar Year</b> 01-03-2023	84.11	15.89	6.96	0.00	0.00	0.00
<b>Start of Water Year</b> 09-27-2022	32.19	67.81	21.97	4.76	0.83	0.00
<b>One Year Ago</b> 03-29-2022	24.27	75.73	40.39	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:

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National Drought Mitigation Center



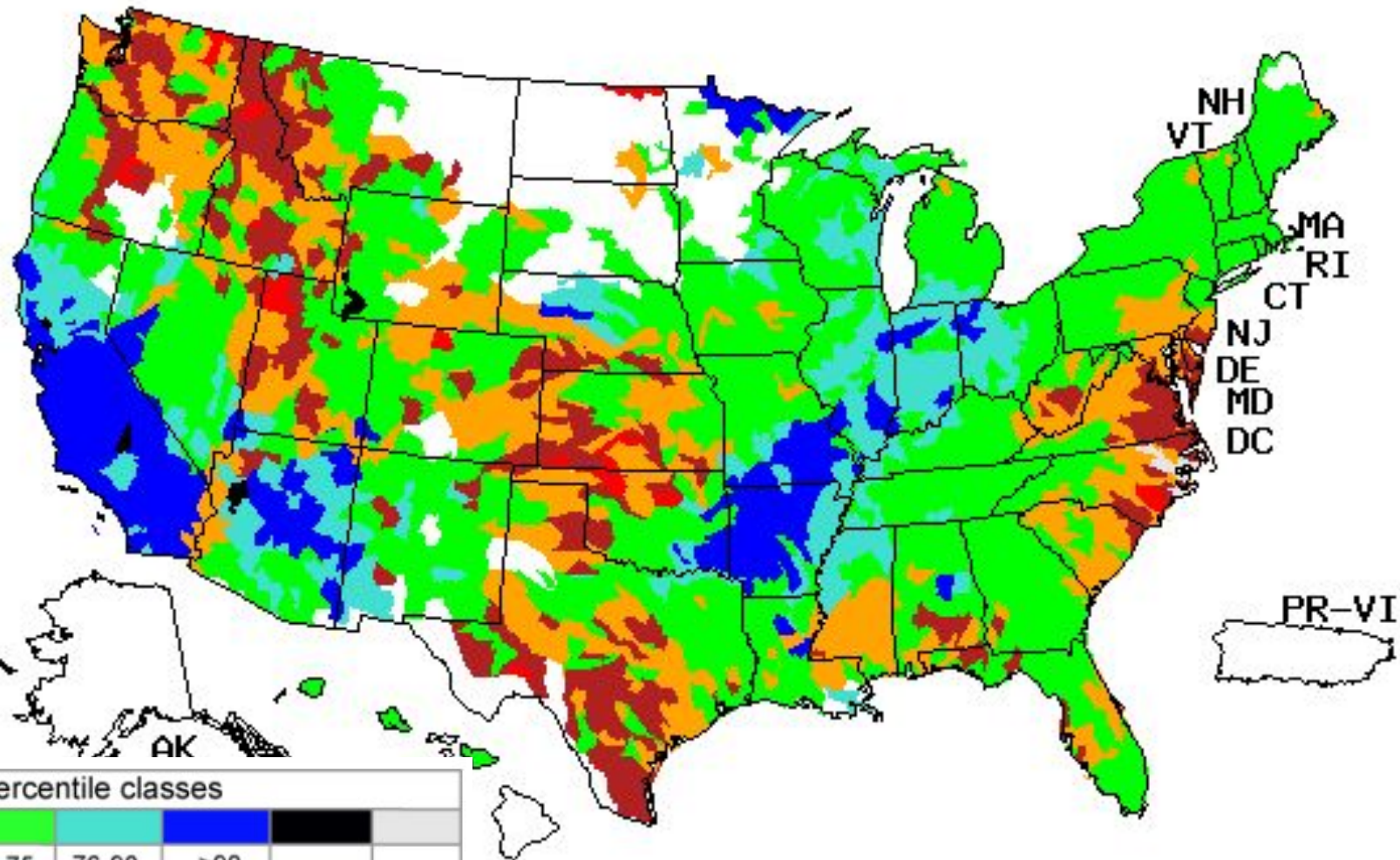
[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

# River Flooding

River and Station	Flood Stage (feet)	Crest Stage (feet)	Crest Date
N/A			

# Monthly Average Streamflow

March 2023

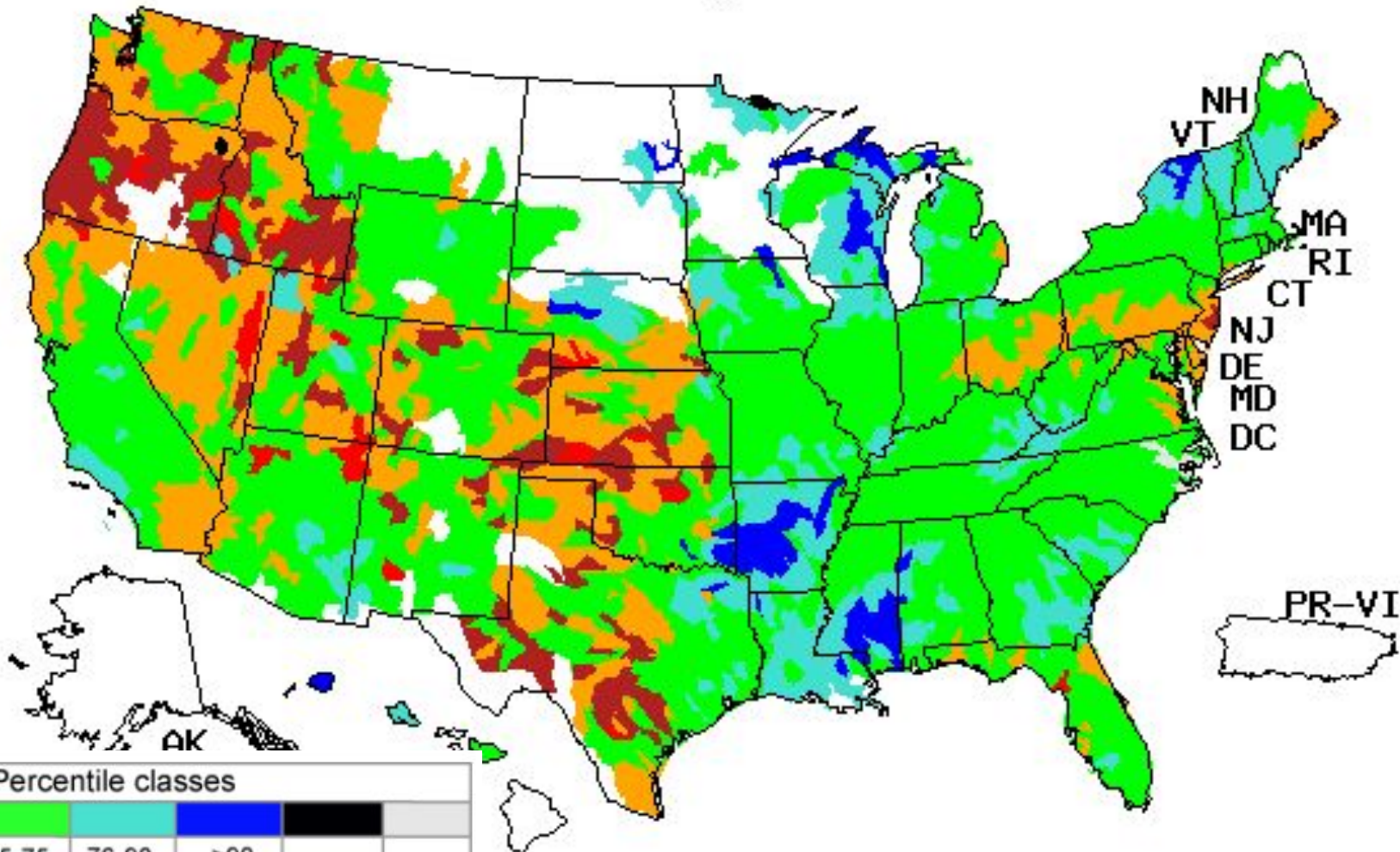


Explanation - Percentile classes

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

# Previous Monthly Average Streamflow

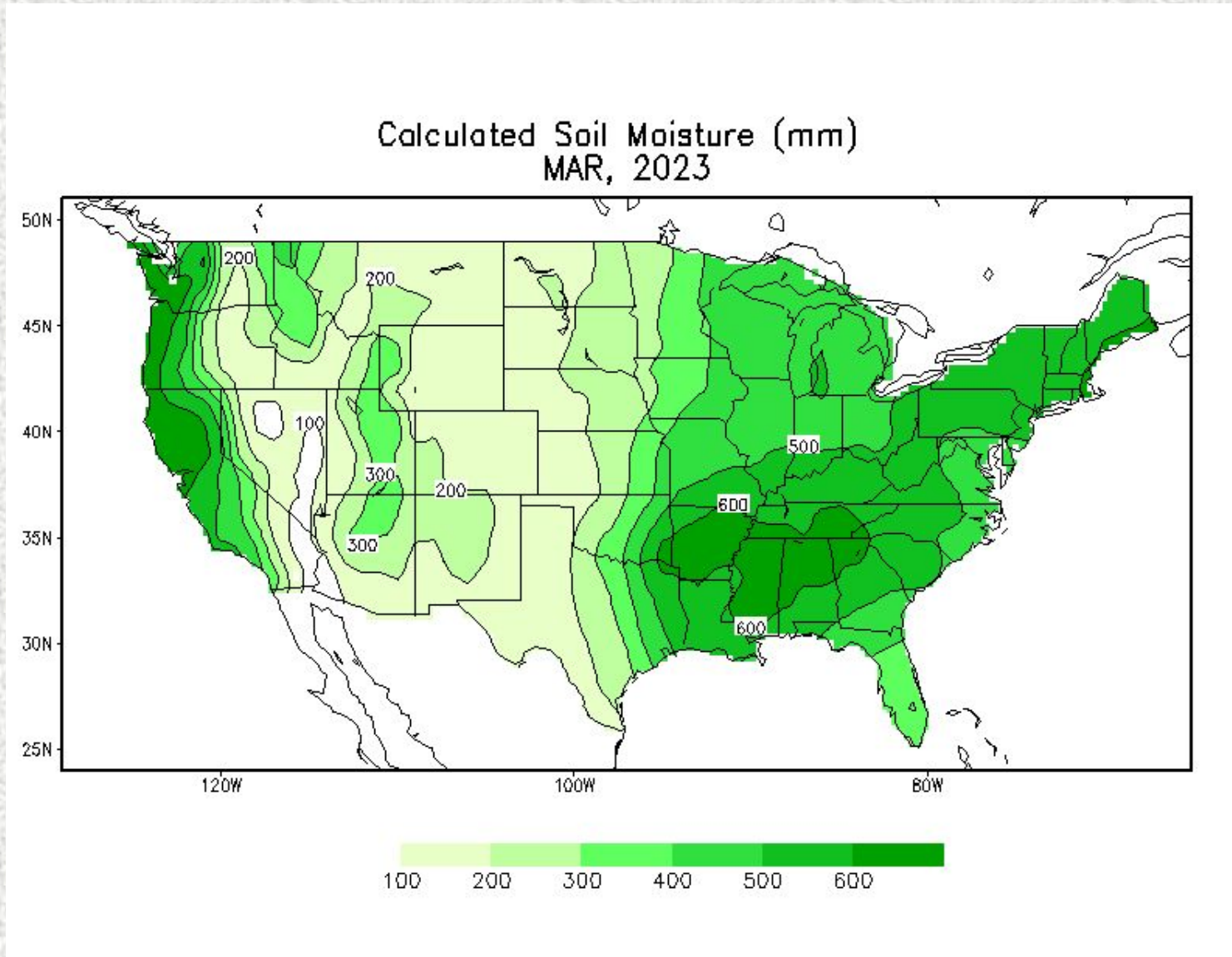
February 2023



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			

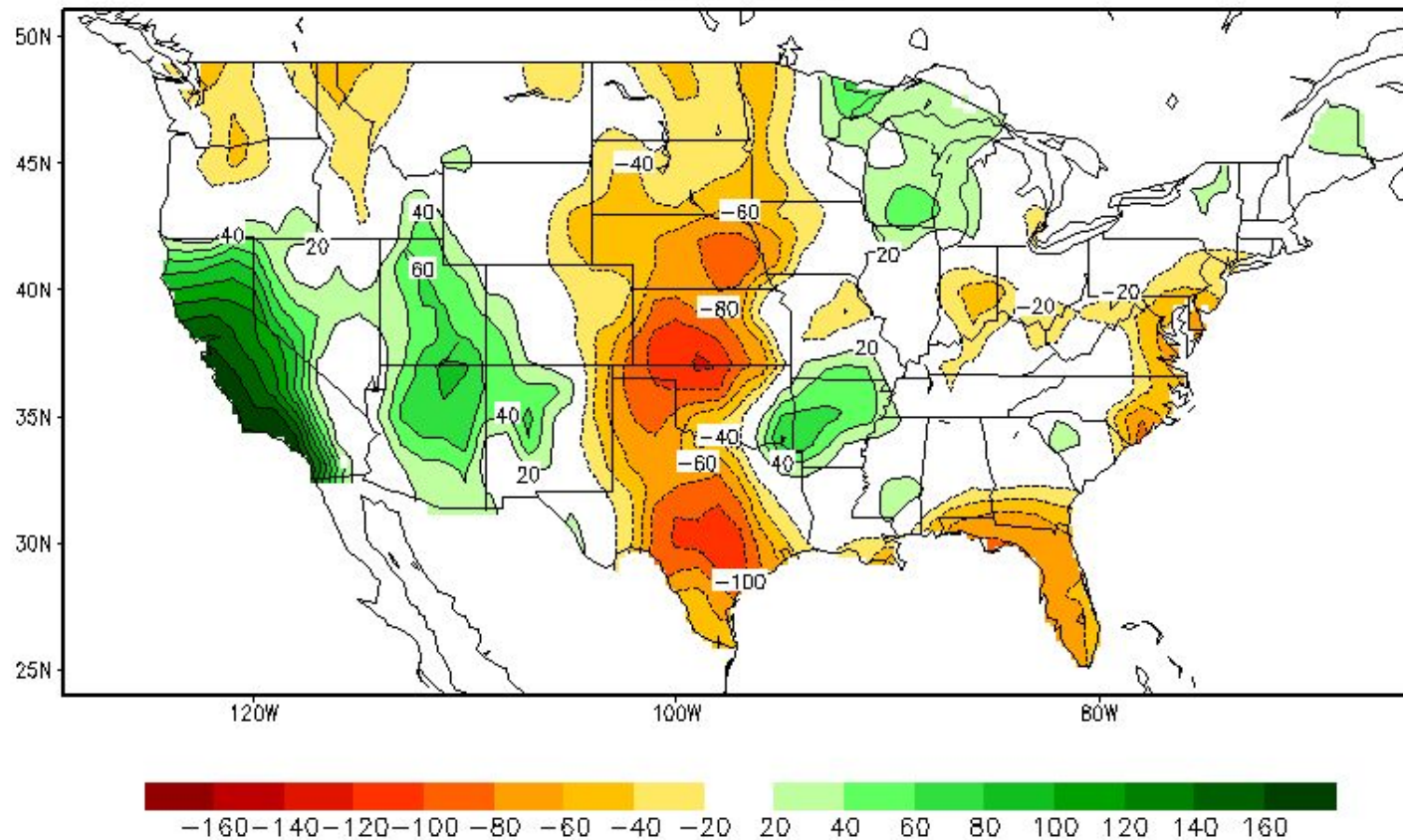
# Soil Moisture



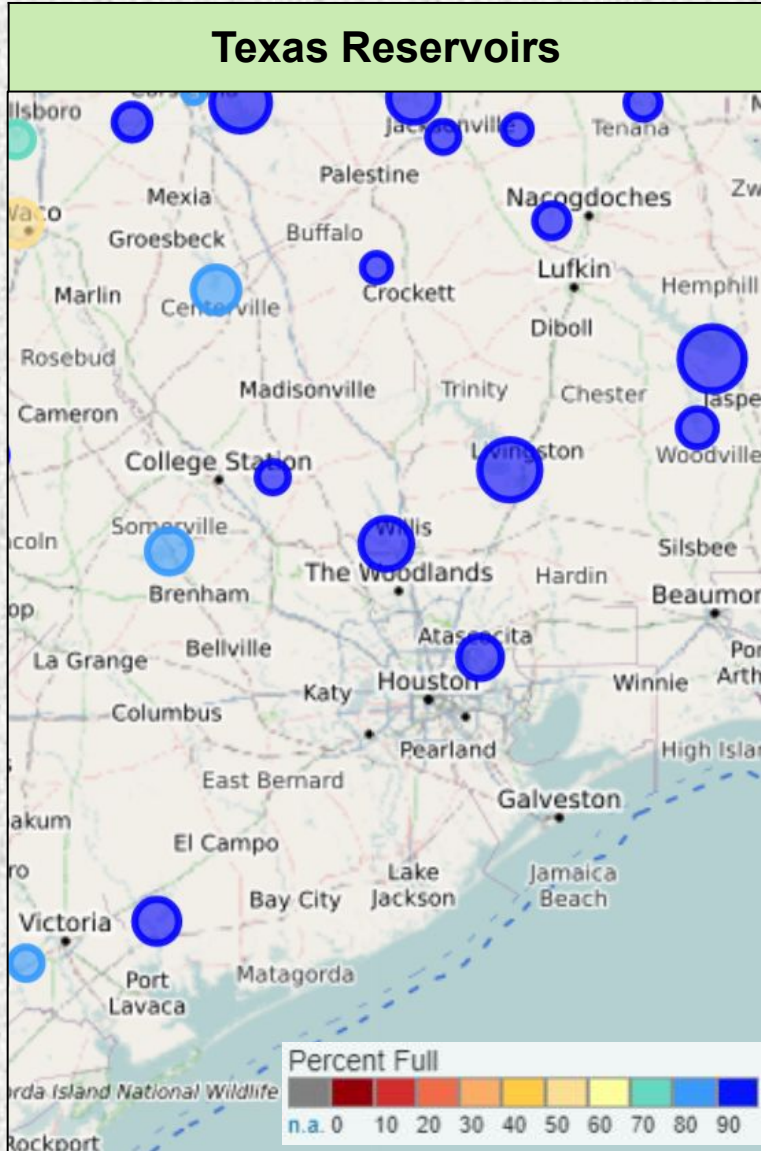


# Soil Moisture Anomaly

Calculated Soil Moisture Anomaly (mm)  
MAR, 2023



# Reservoir Status



Reservoir	Percent Full Conservation Storage
Houston County Lake	100.0%
Lake Livingston	100.0%
Lake Conroe	99.6%
Lake Houston	100.0%
Gibbons Creek Reservoir	92.6%
Lake Somerville	81.8%
Lake Texana	93.7%

Data added on: April 3, 2023 at 12:00 pm CDT

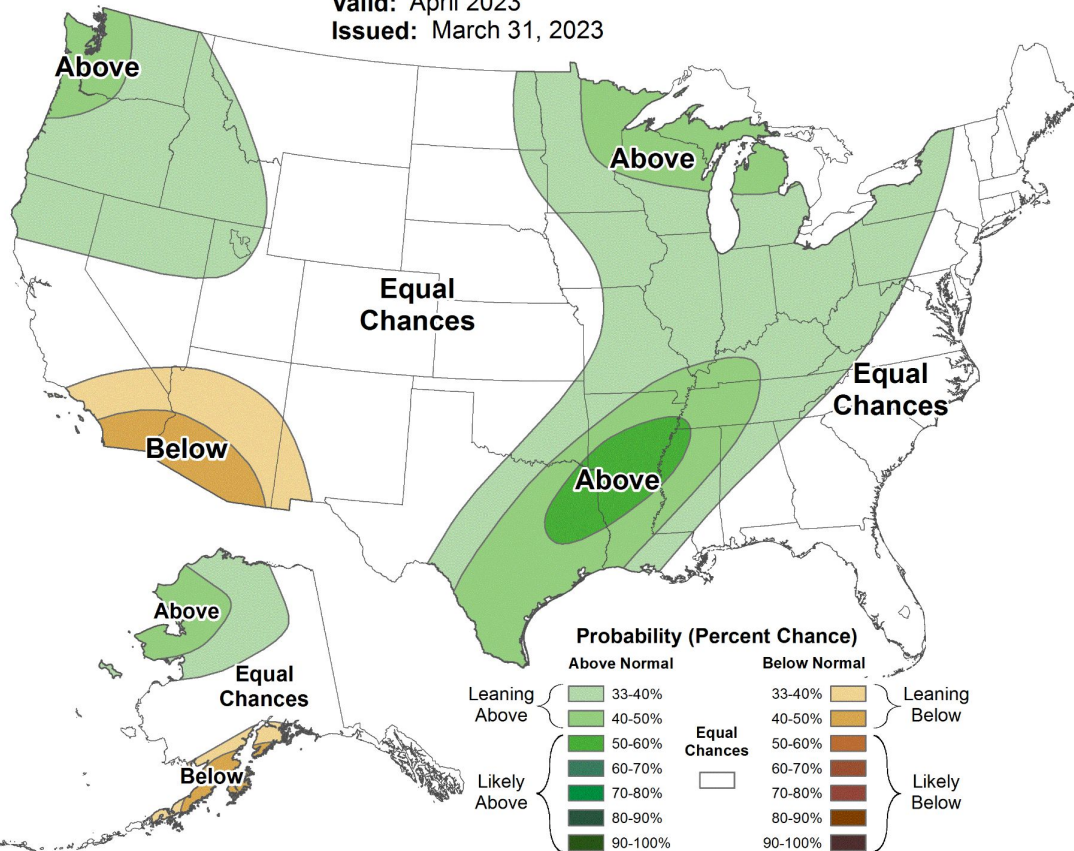
# Precipitation Outlooks



## Monthly Precipitation Outlook



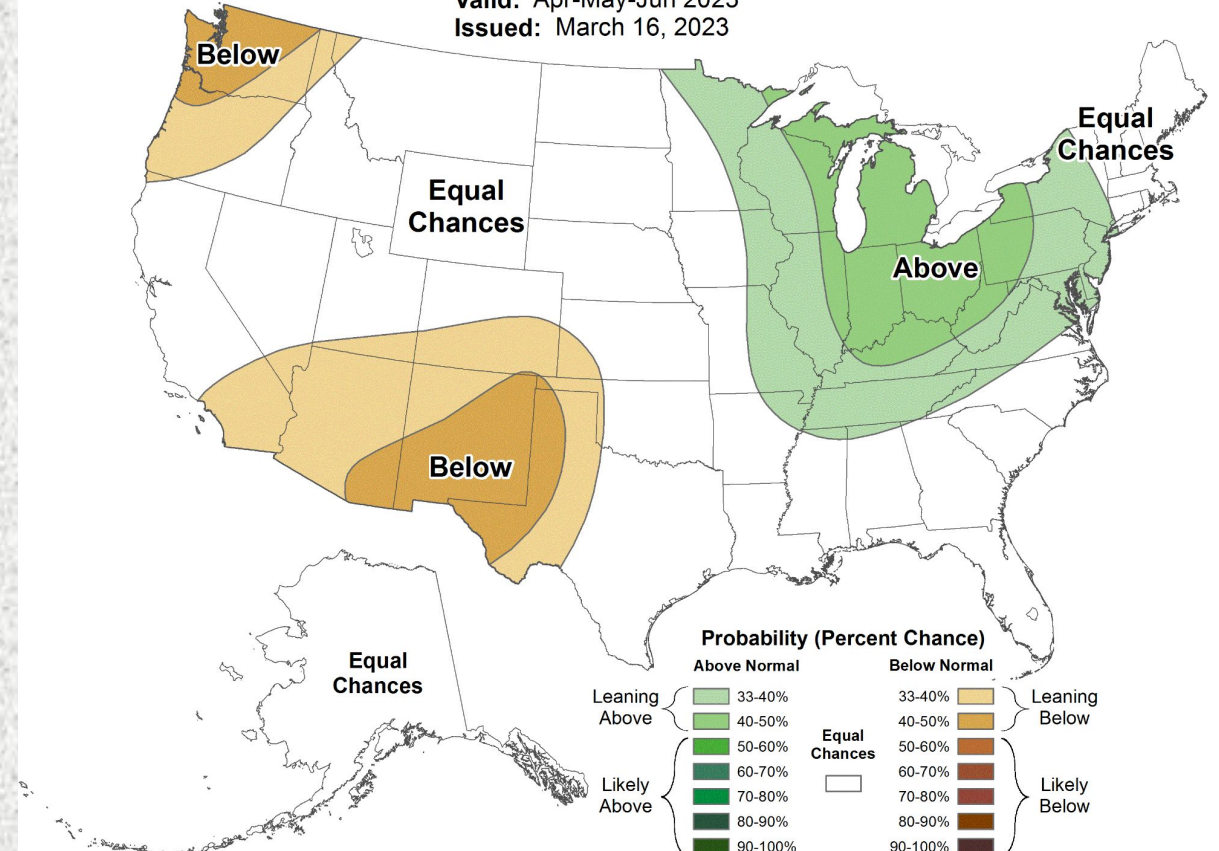
Valid: April 2023  
Issued: March 31, 2023



## Seasonal Precipitation Outlook



Valid: Apr-May-Jun 2023  
Issued: March 16, 2023



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