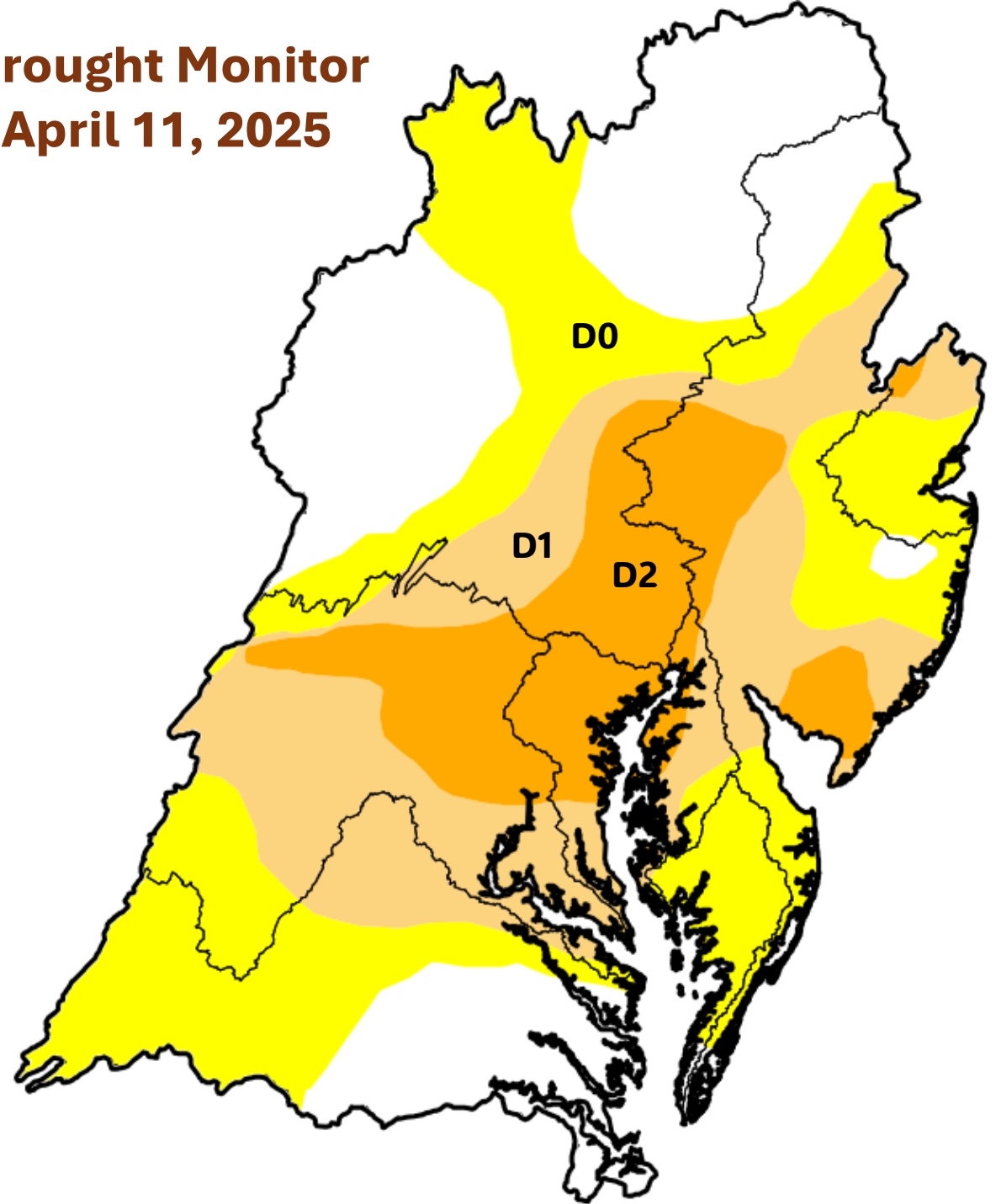
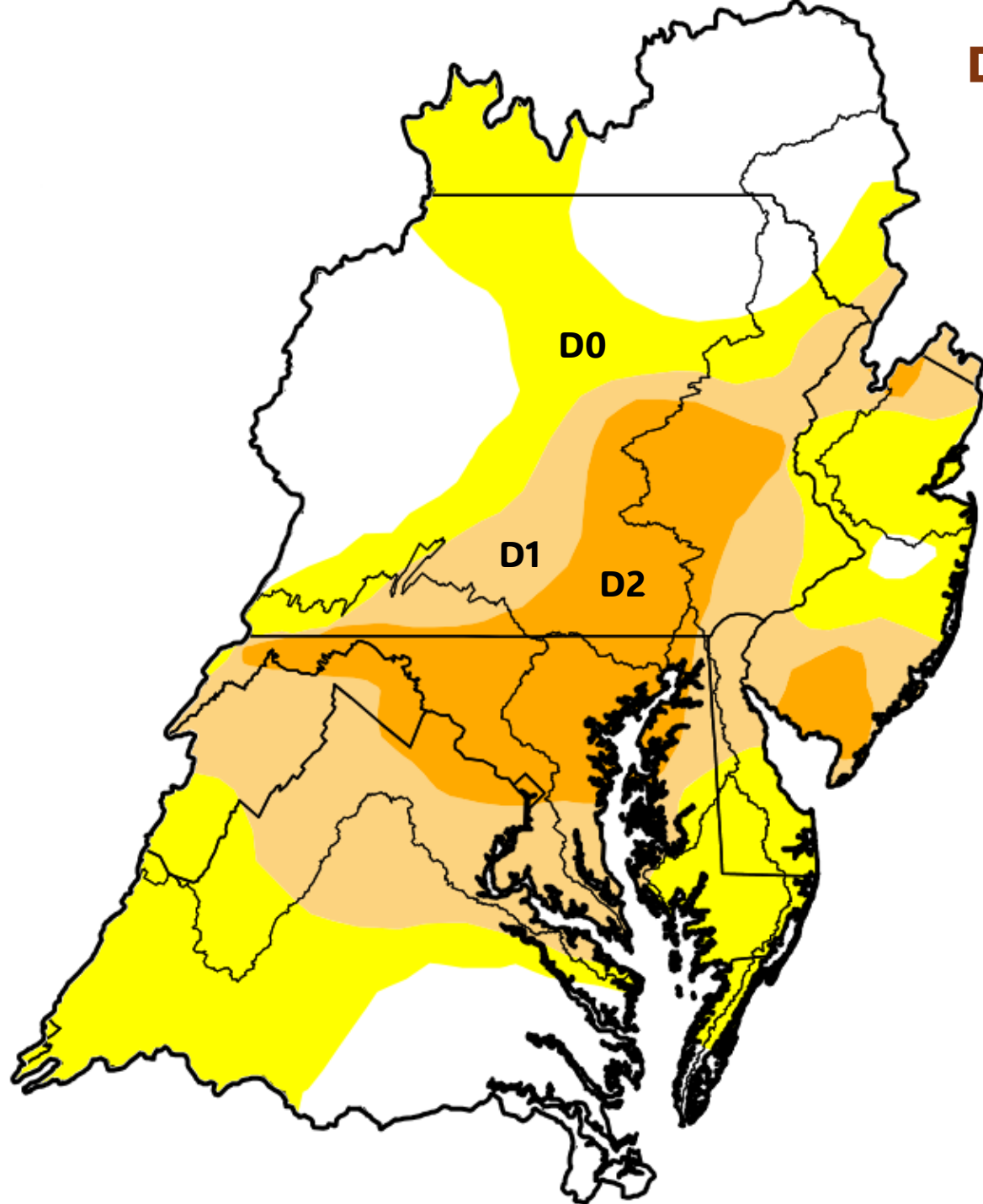


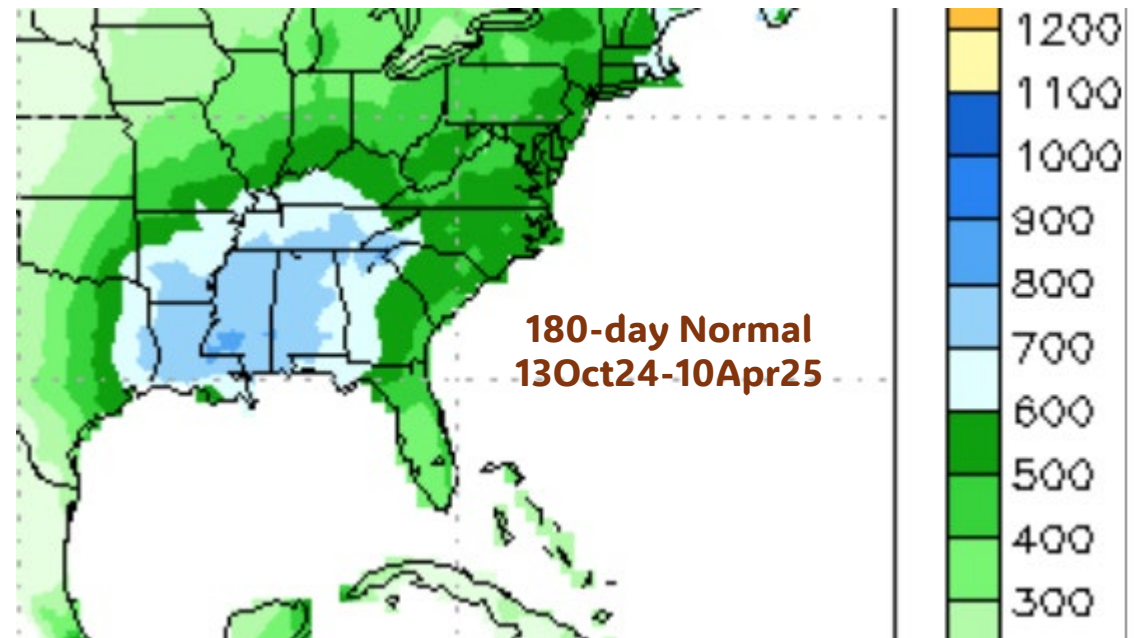
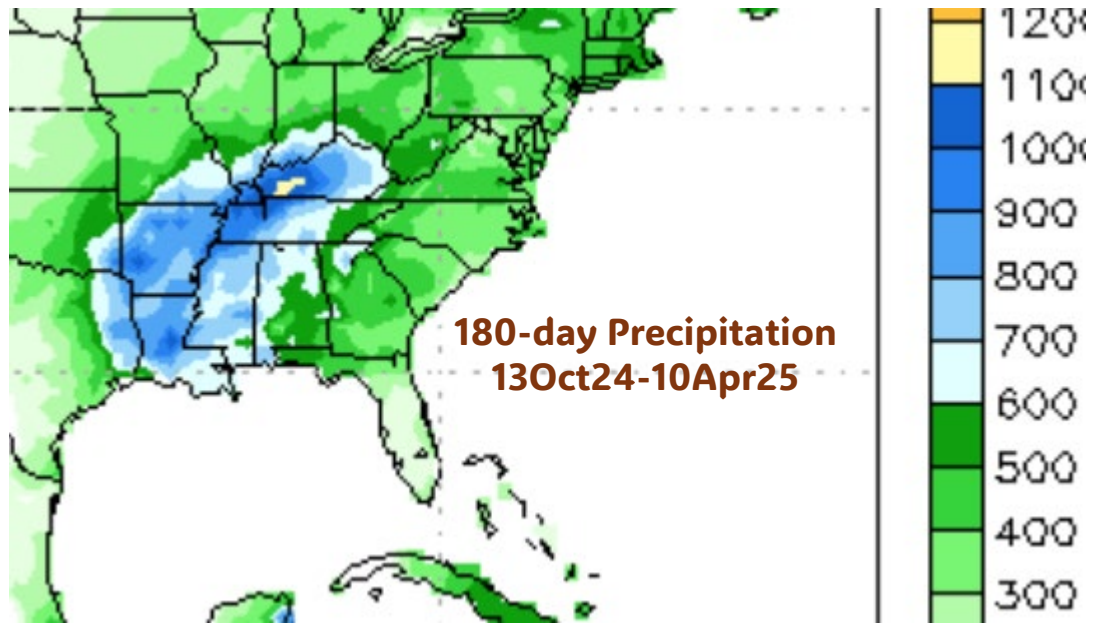
Potomac Basin Drought Update and Outlook

April 11, 2025

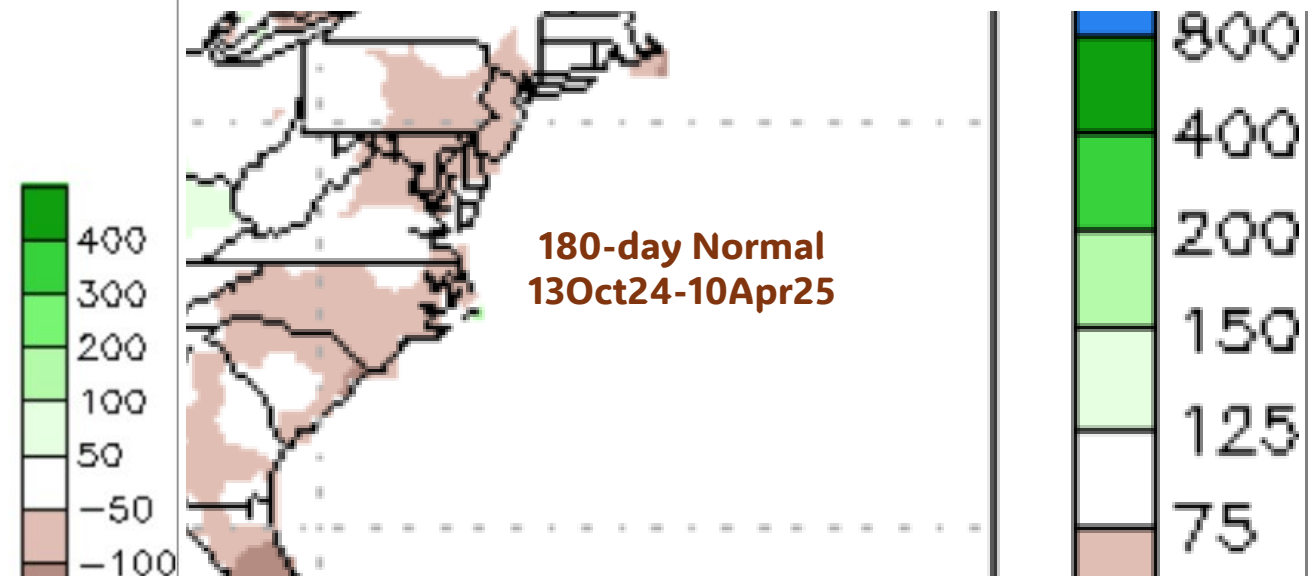
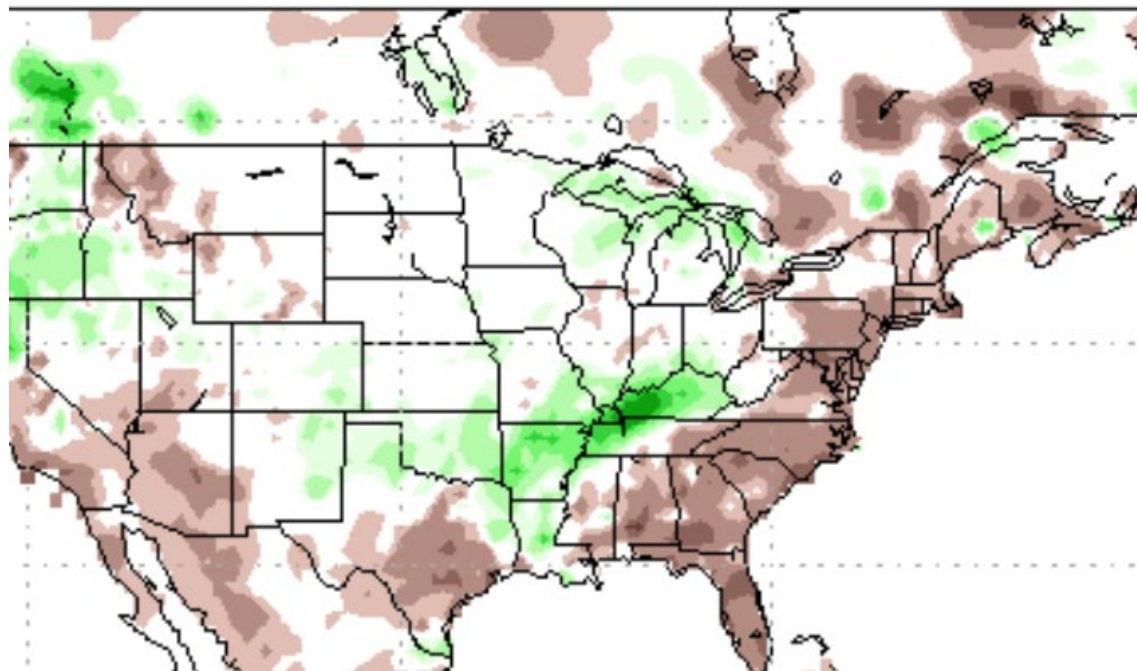
Rich Tinker, Climate Prediction Center, NWS

Drought Monitor
April 11, 2025



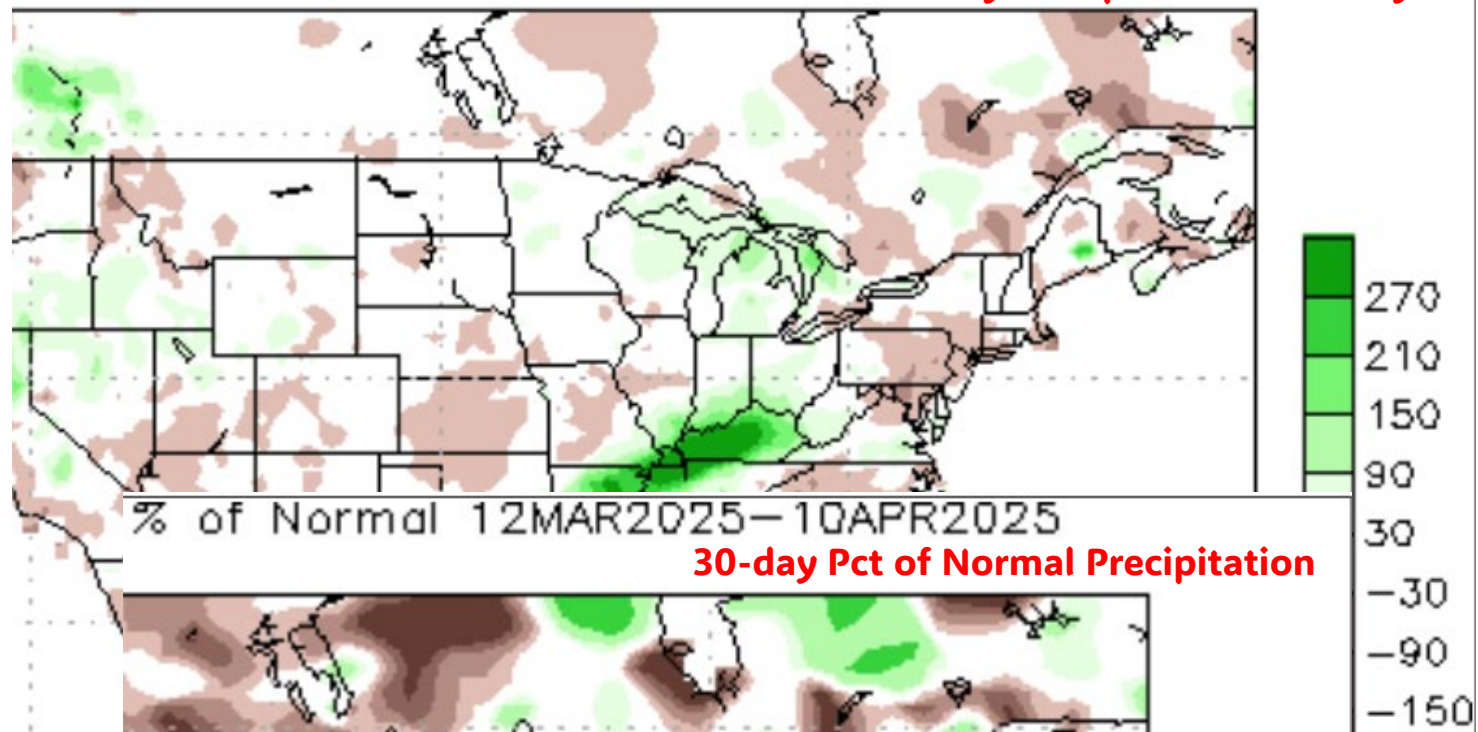


Anomalies (mm) 13OCT2024–10APR2025



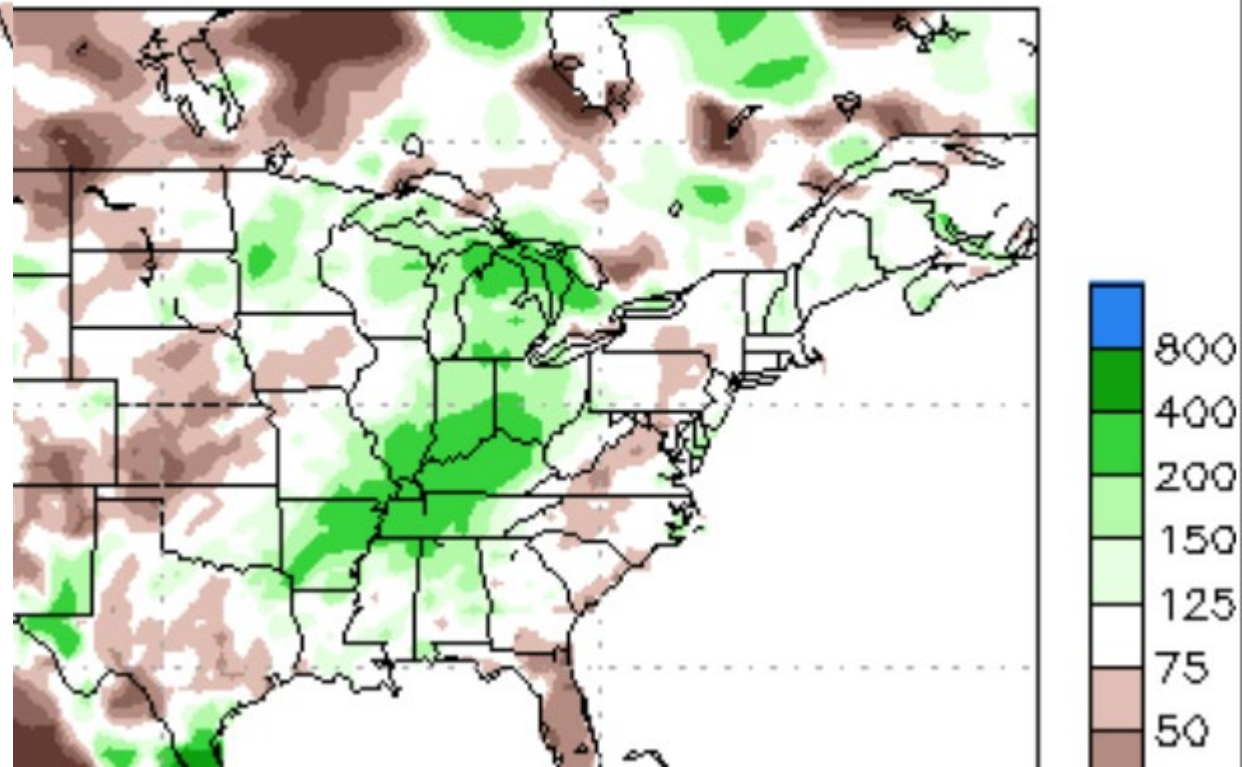
Anomalies (mm) 11JAN2025–10APR2025








90-day Precipitation Anomaly



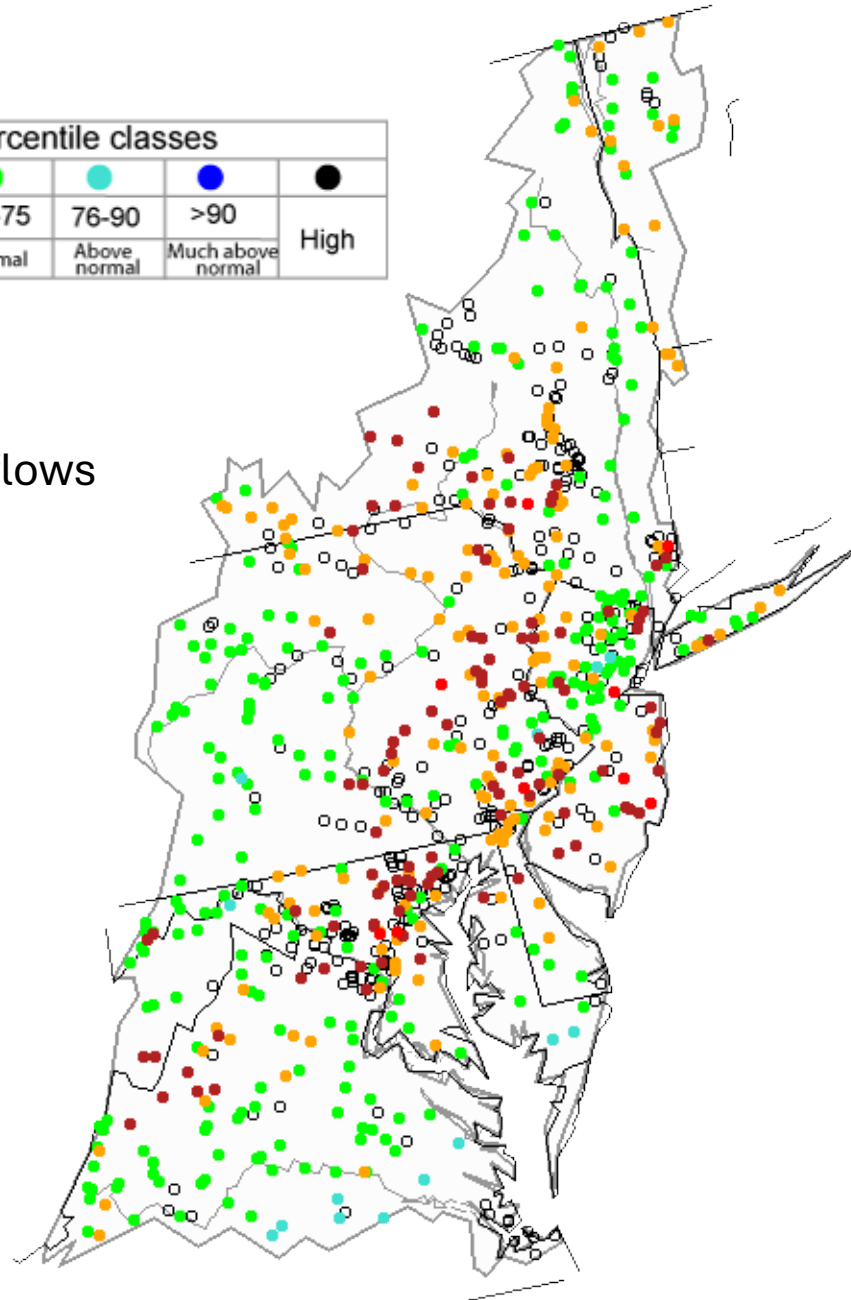
% of Normal 12MAR2025–10APR2025

30-day Pct of Normal Precipitation

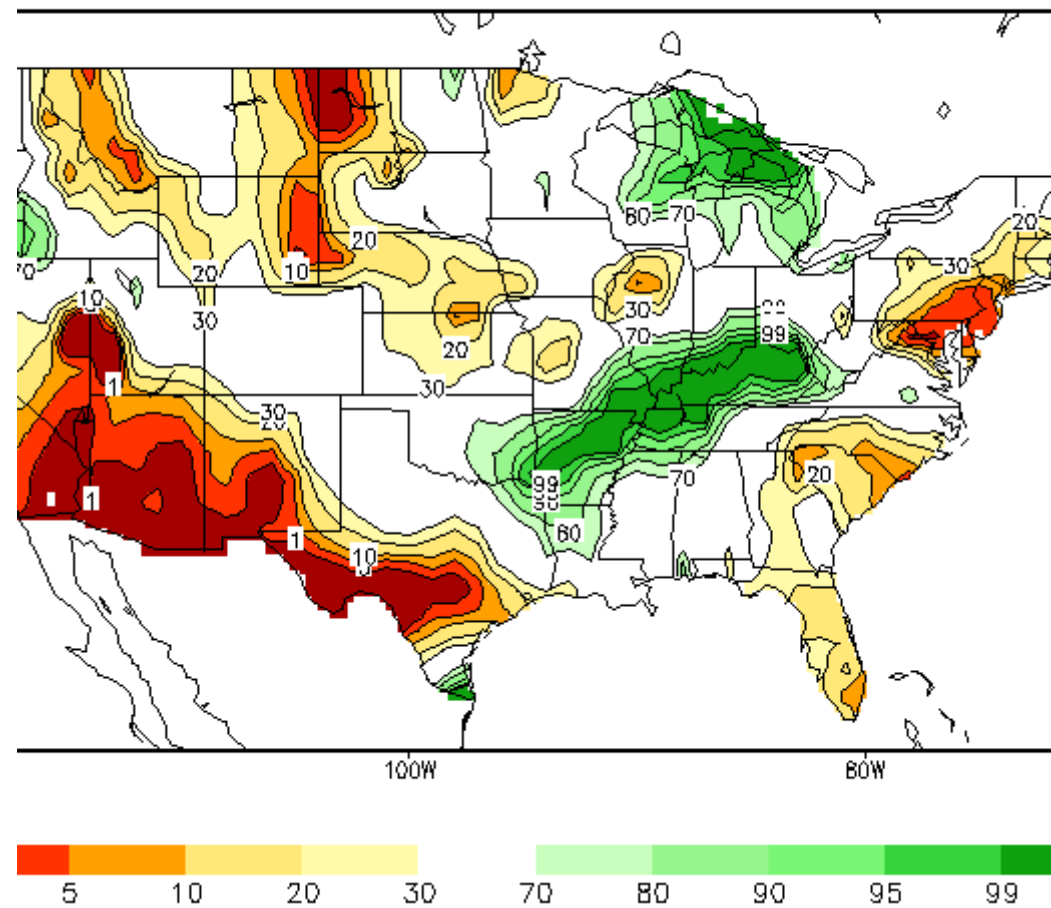


Explanation - Percentile classes						
						
Low	<10	10-24	25-75	76-90	>90	High
	Much below normal	Below normal	Normal	Above normal	Much above normal	

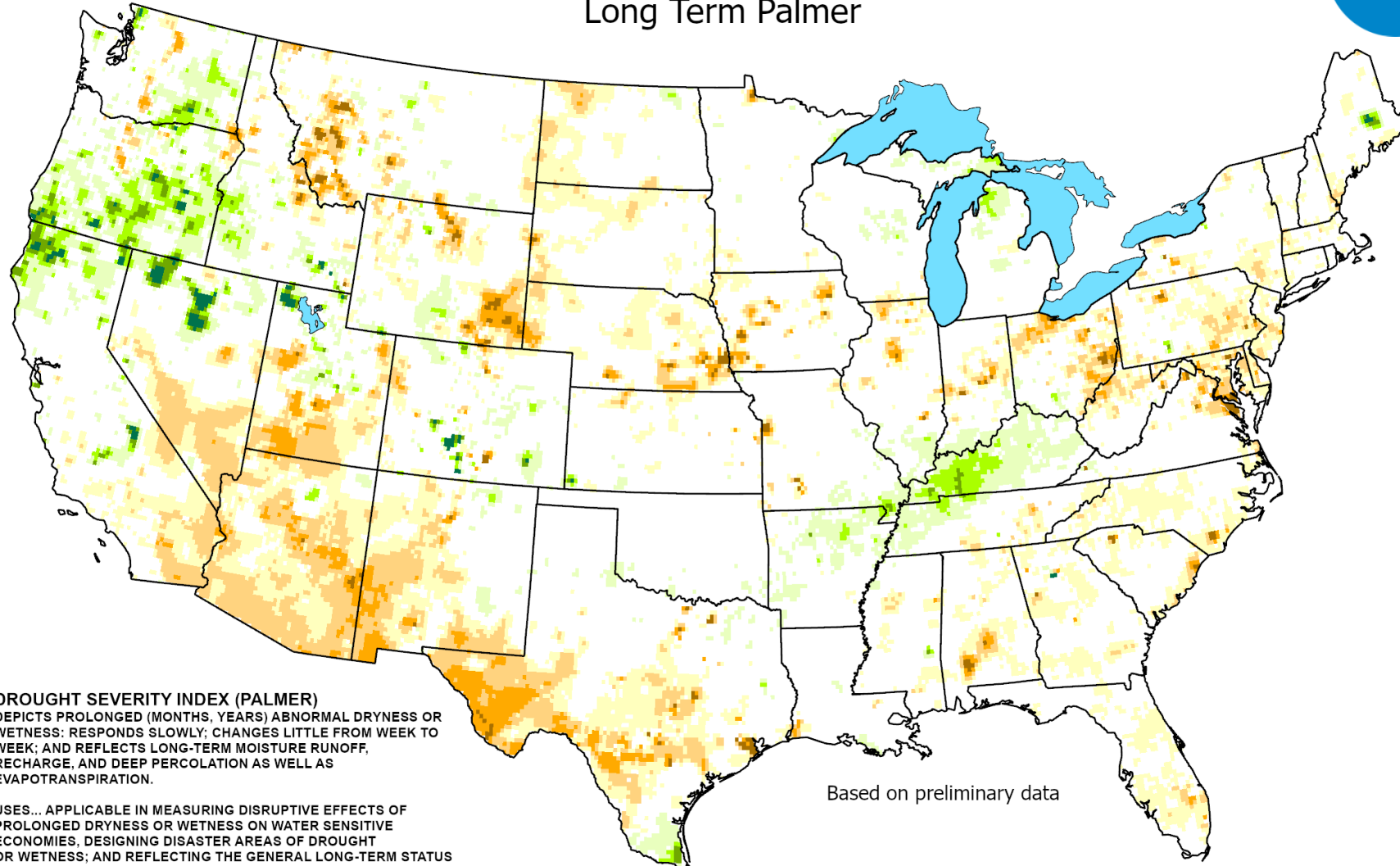
Streamflows



Calculated Soil Moisture Ranking Percentile
APR 10, 2025



Drought Severity Index
Value for the March 30 - April 5, 2025
Long Term Palmer



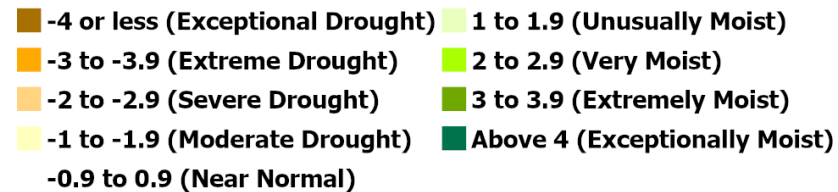
Based on preliminary data

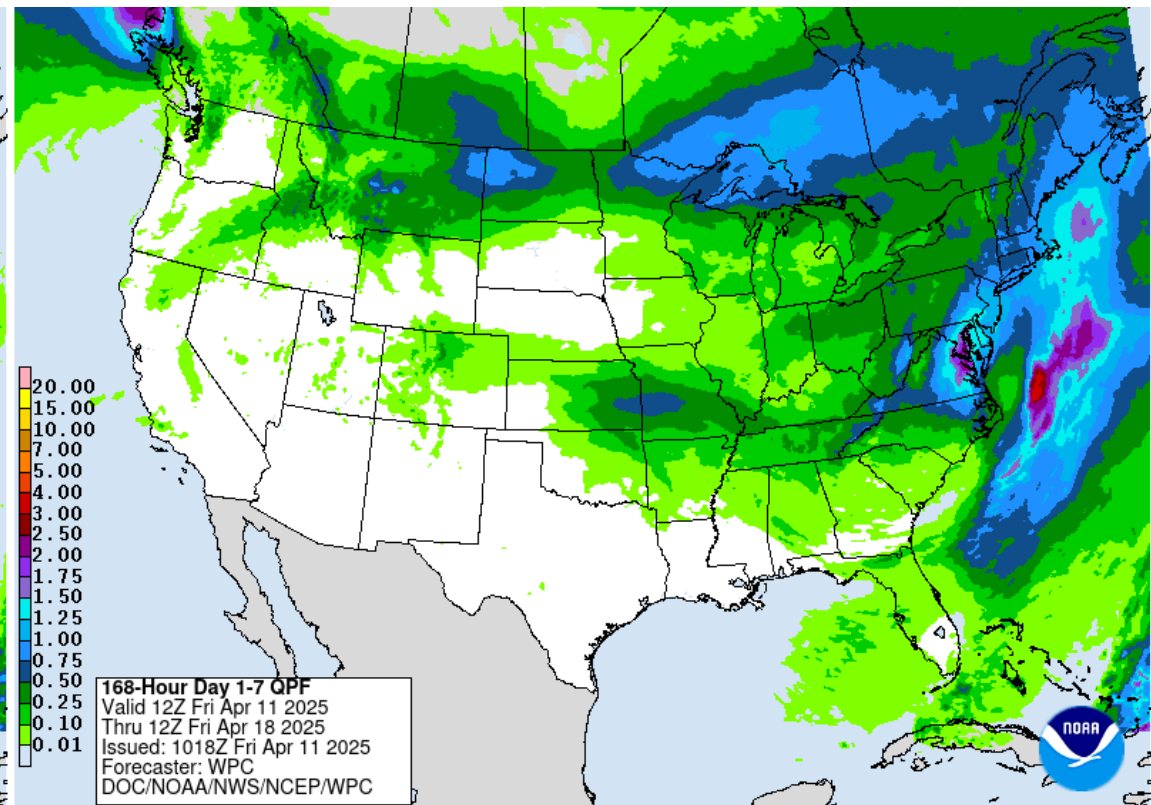
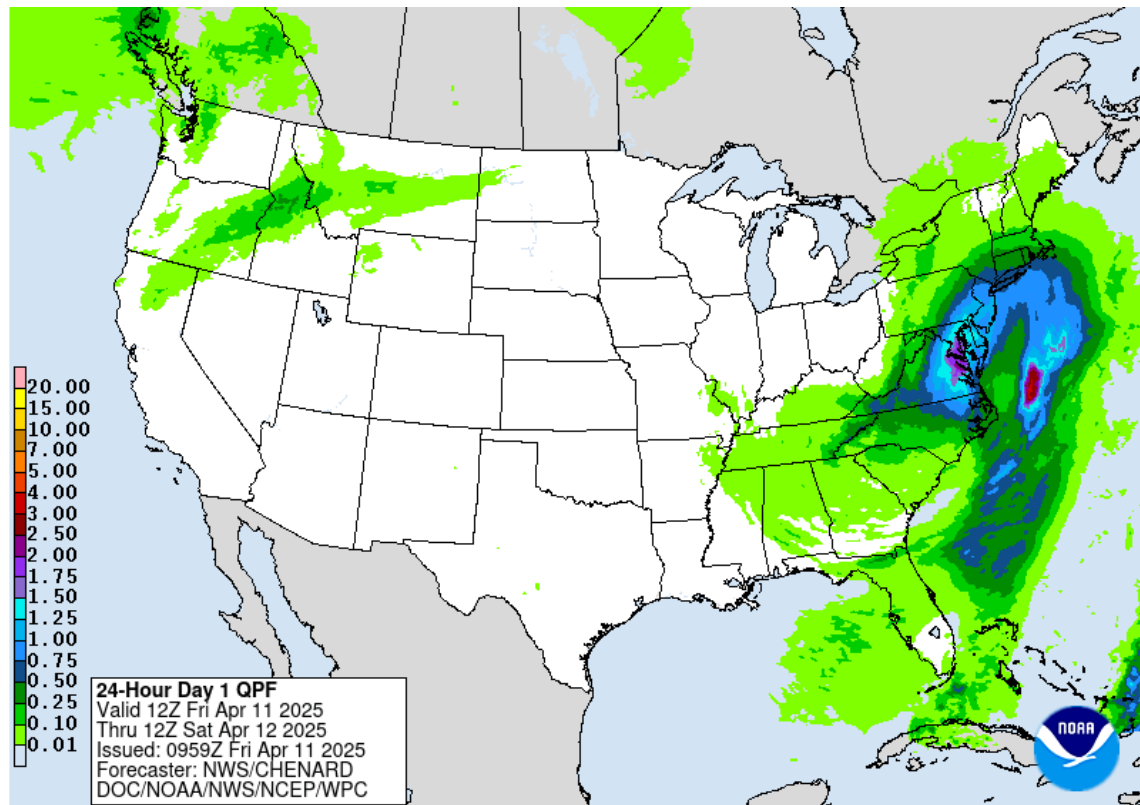
DROUGHT SEVERITY INDEX (PALMER)

DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS; RESPONDS SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG-TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION AS WELL AS EVAPOTRANSPIRATION.

USES... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES, DESIGNING DISASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL LONG-TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS AND STREAMS.

LIMITATIONS... IS NOT GENERALLY INDICATIVE OF SHORT-TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).



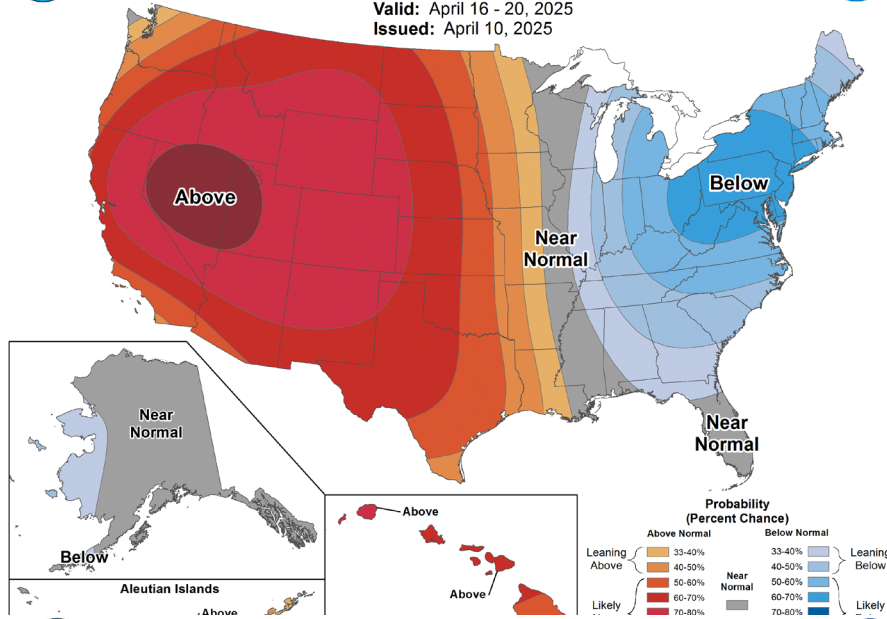


Heavy precipitation next 24 hours through Sat 4/12 Morning
Little for the next 6 days – some light amounts 4/14-15 and 4/17-18 possible



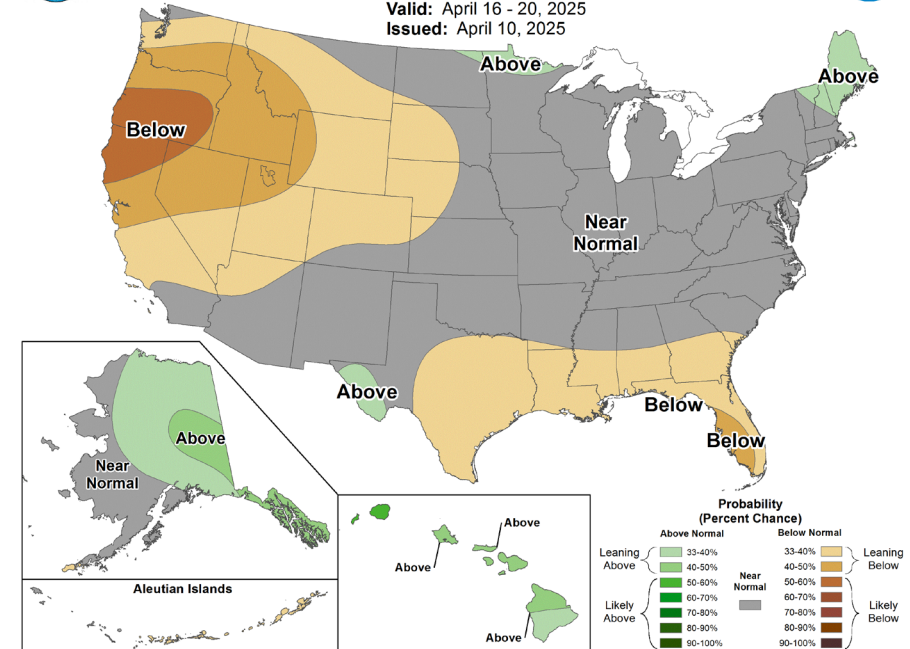
6-10 Day Temperature Outlook

Valid: April 16 - 20, 2025
Issued: April 10, 2025



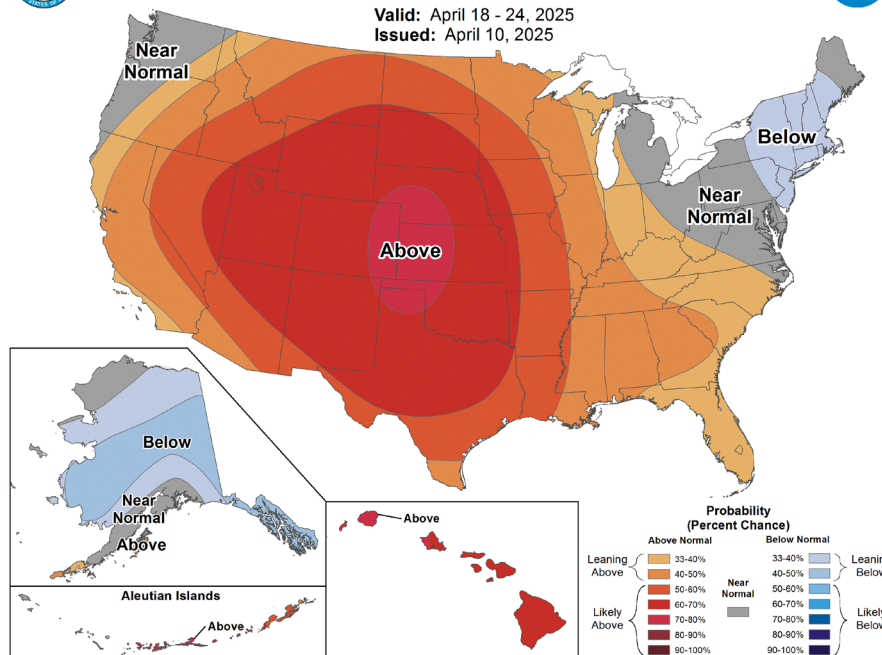
6-10 Day Precipitation Outlook

Valid: April 16 - 20, 2025
Issued: April 10, 2025



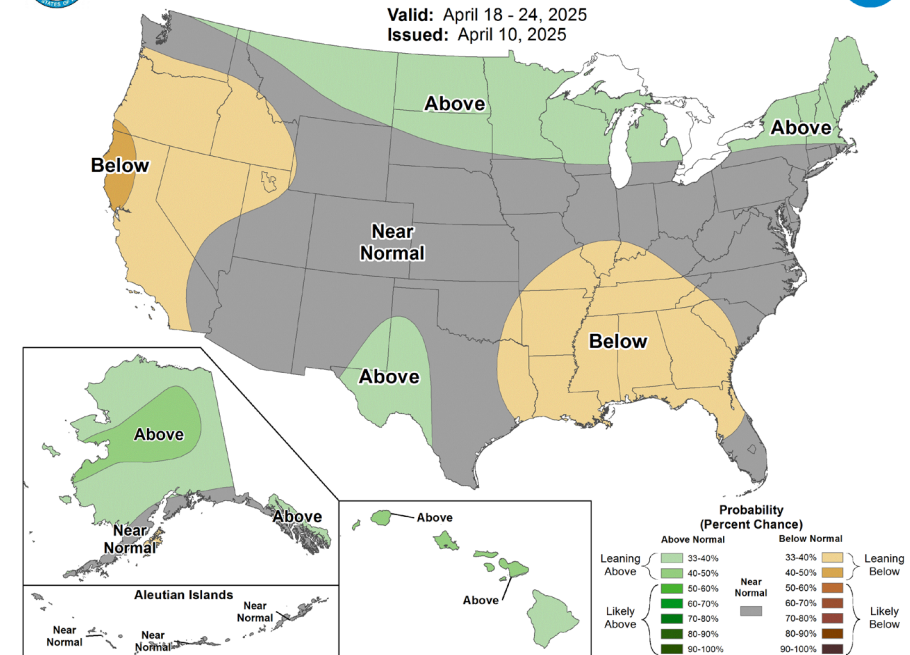
8-14 Day Temperature Outlook

Valid: April 18 - 24, 2025
Issued: April 10, 2025



8-14 Day Precipitation Outlook

Valid: April 18 - 24, 2025
Issued: April 10, 2025

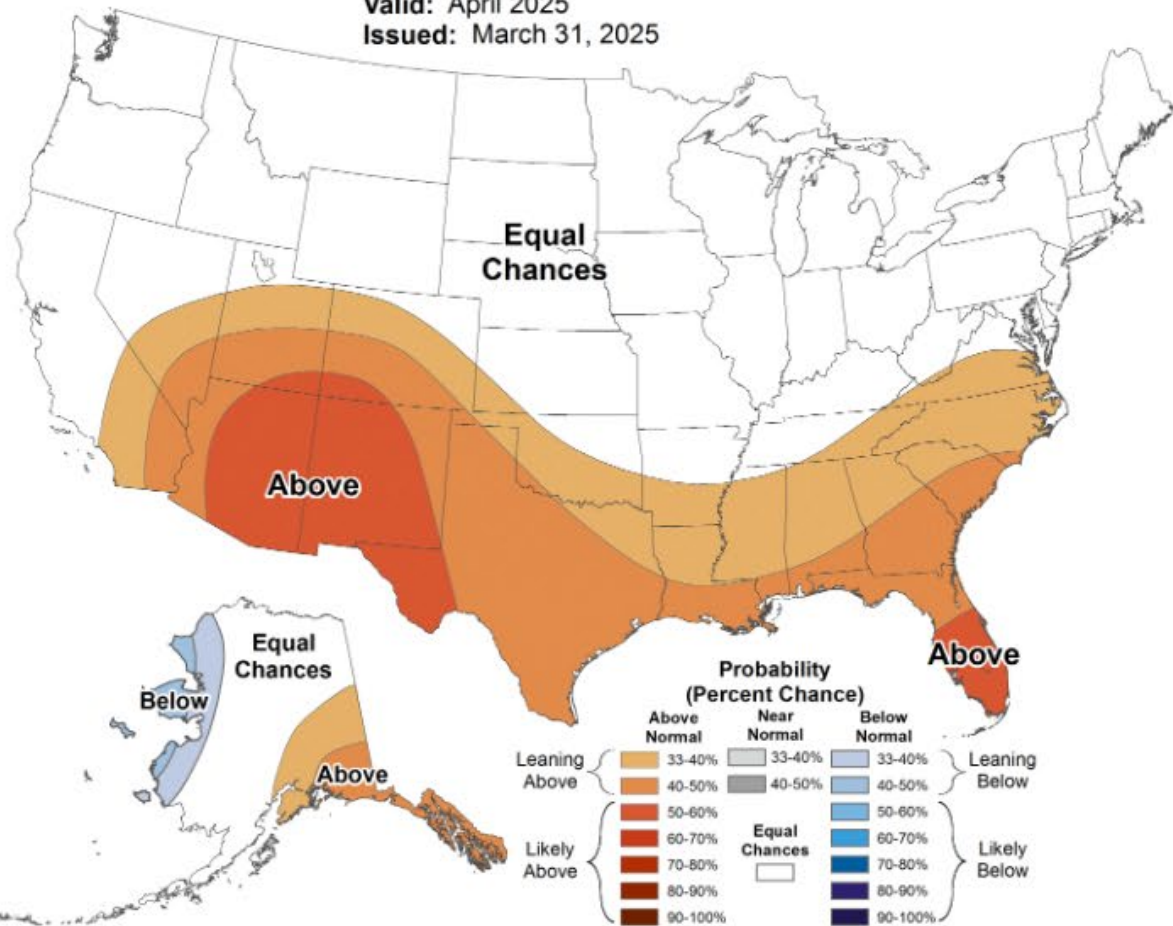




Monthly Temperature Outlook



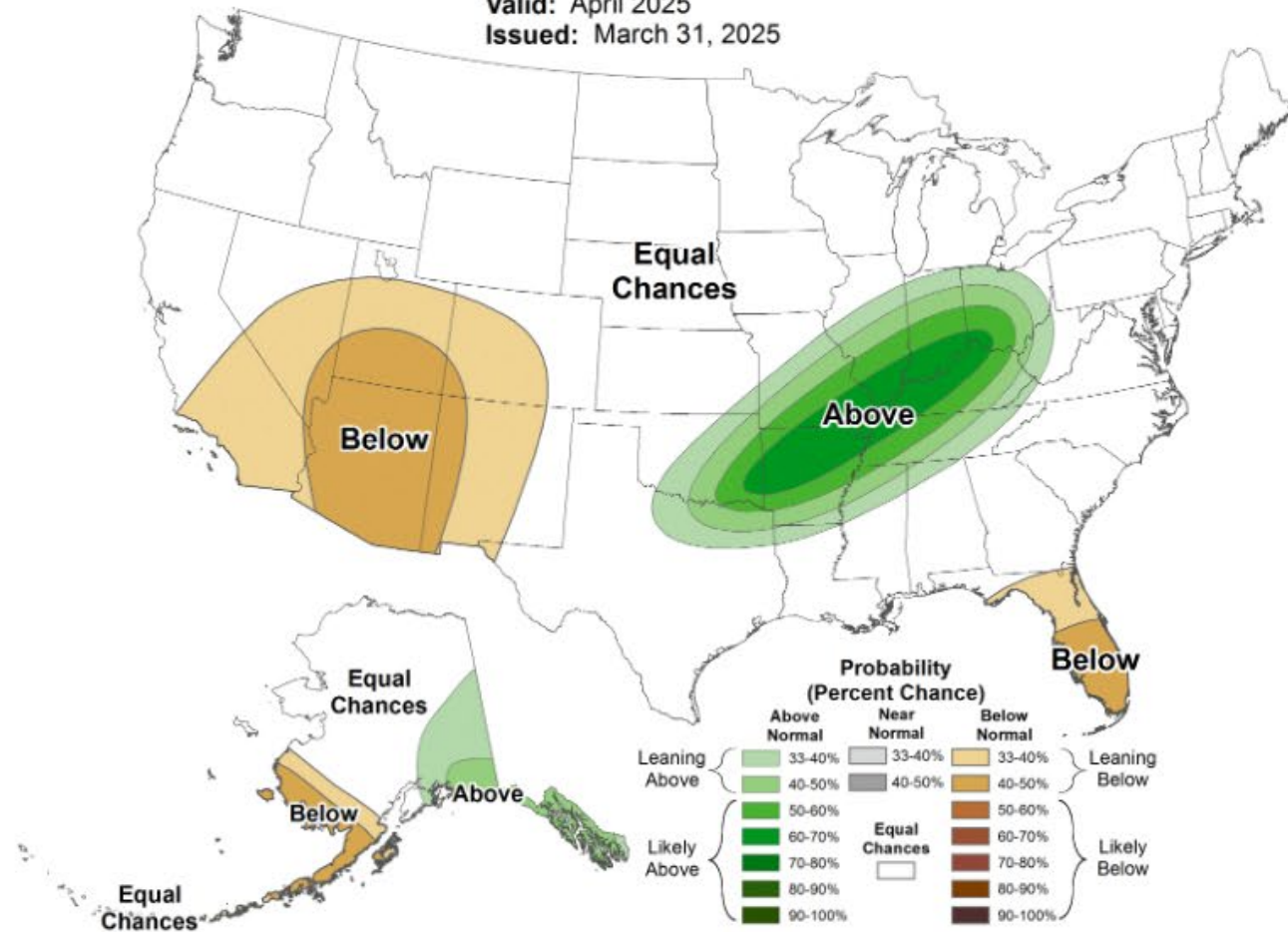
Valid: April 2025
Issued: March 31, 2025



Monthly Precipitation Outlook



Valid: April 2025
Issued: March 31, 2025



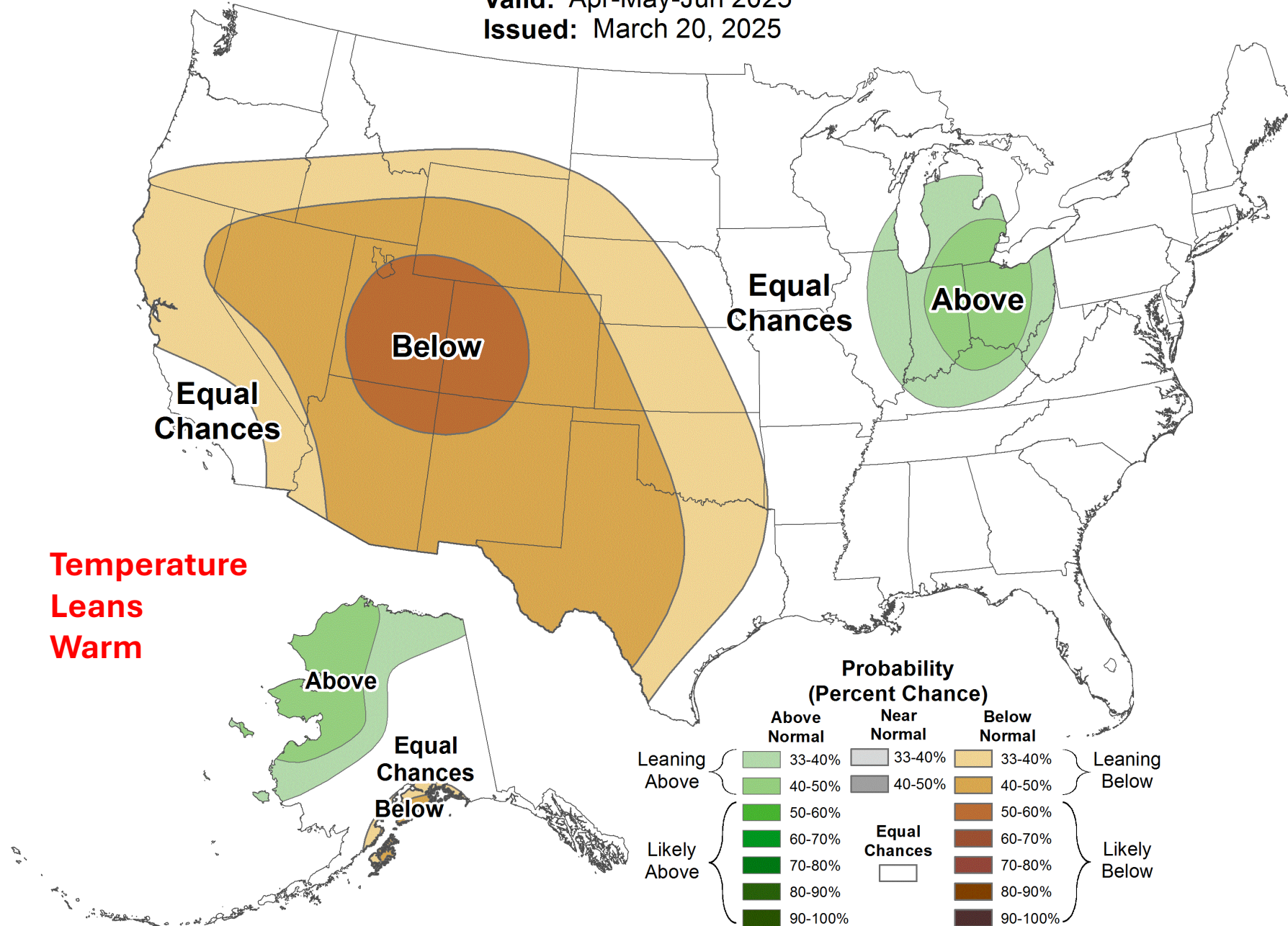


Seasonal Precipitation Outlook



Valid: Apr-May-Jun 2025

Issued: March 20, 2025

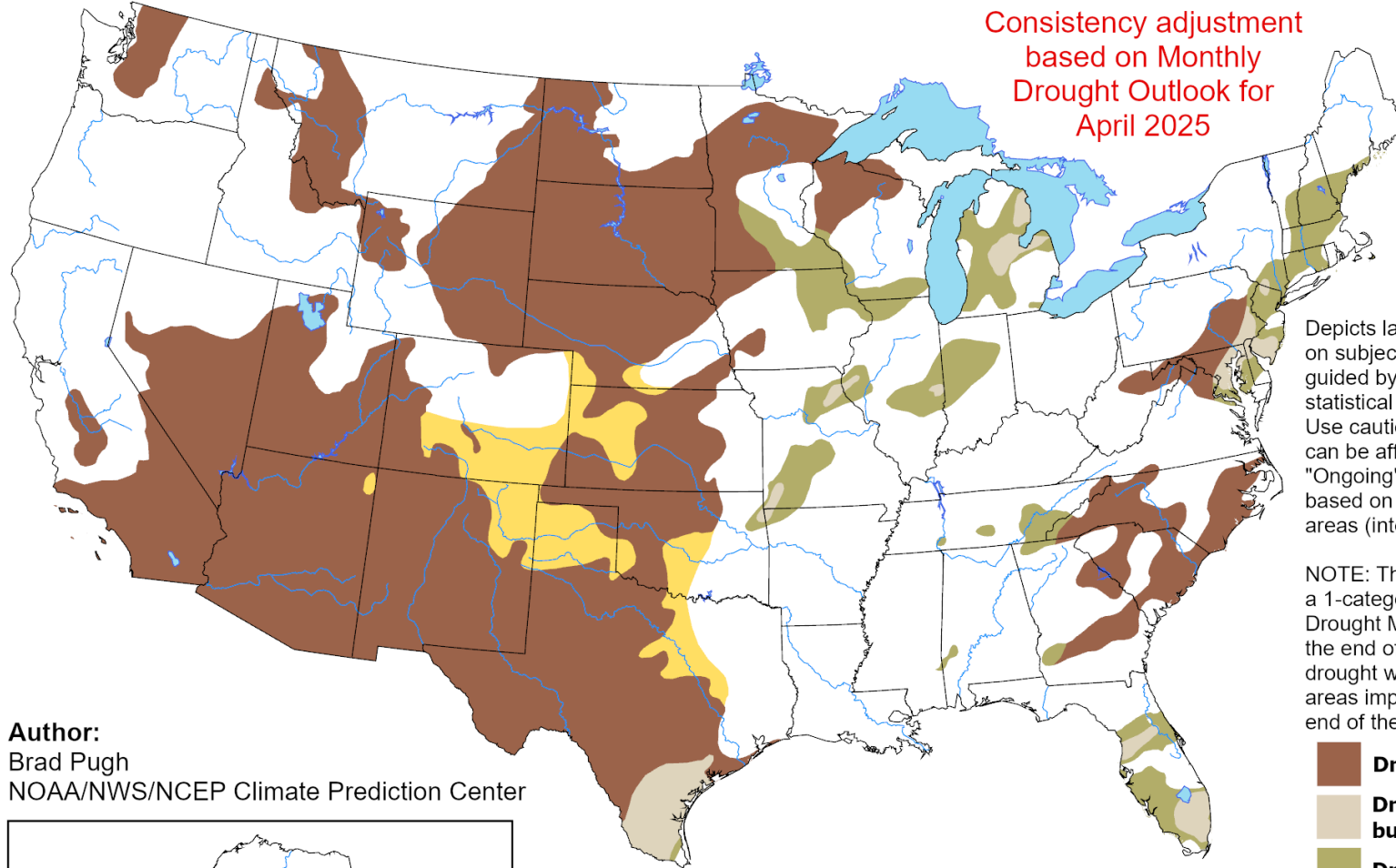


U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for April 1 - June 30, 2025
Released March 31, 2025

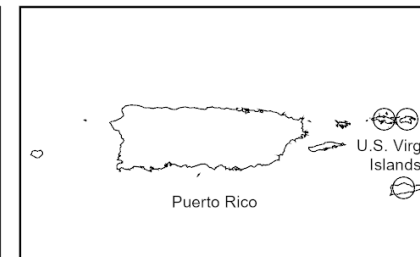
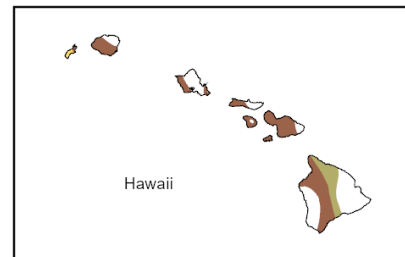
Consistency adjustment
based on Monthly
Drought Outlook for
April 2025



Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
Brad Pugh
NOAA/NWS/NCEP Climate Prediction Center



-  **Drought persists**
-  **Drought remains, but improves**
-  **Drought removal likely**
-  **Drought development likely**
-  **No drought**



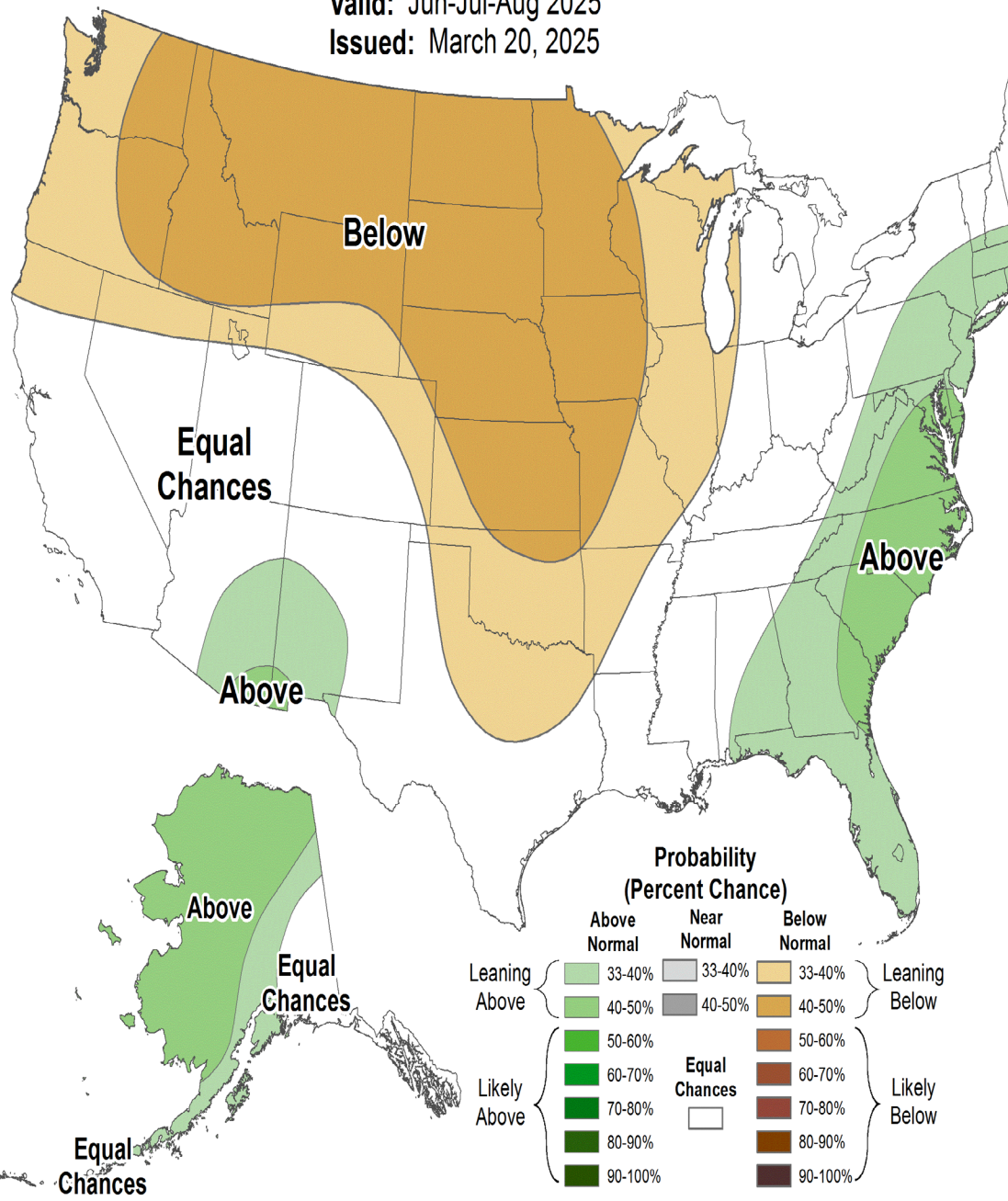
<https://go.usa.gov/3eZ73>



Seasonal Precipitation Outlook



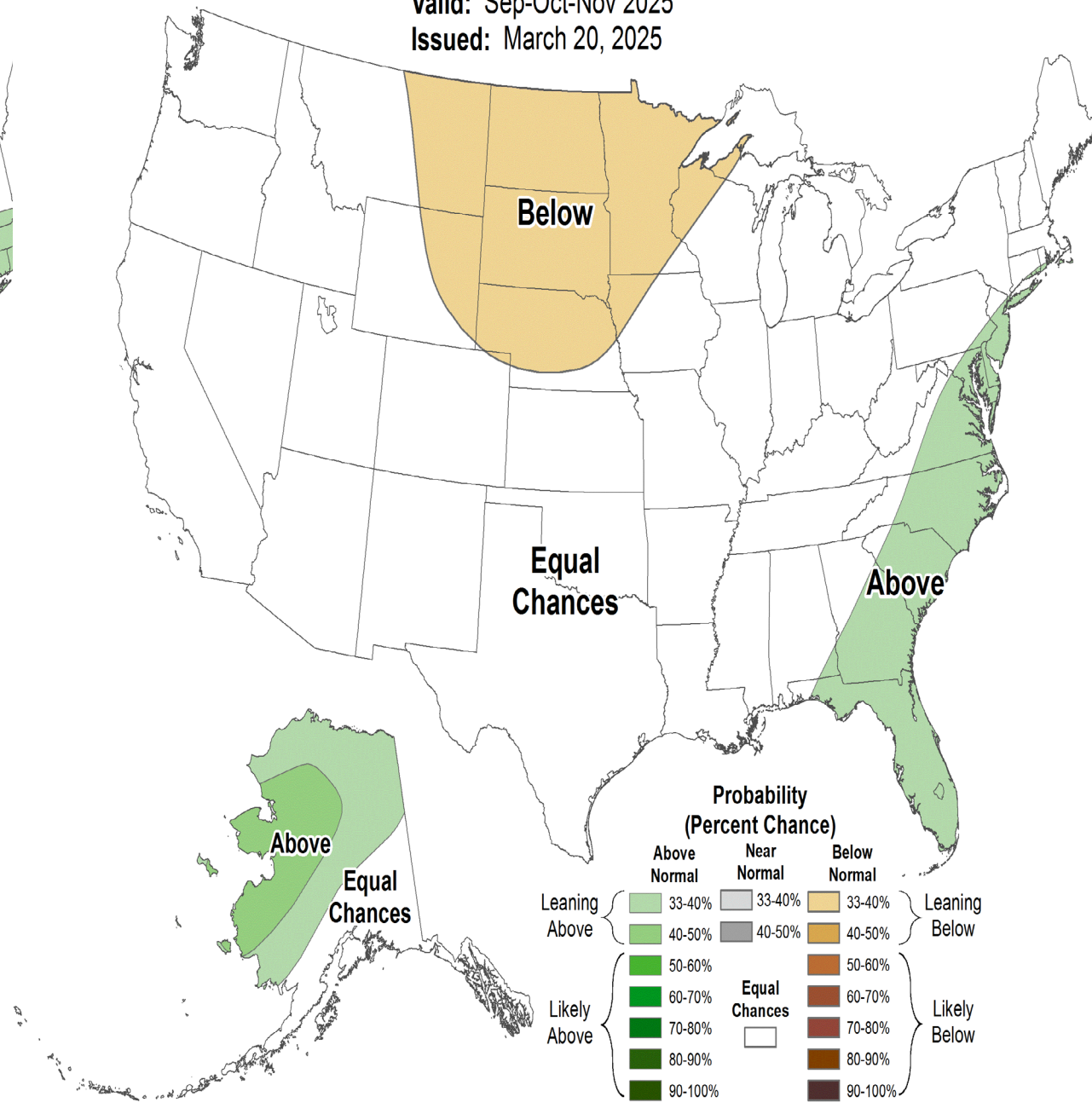
Valid: Jun-Jul-Aug 2025
Issued: March 20, 2025



Seasonal Precipitation Outlook



Valid: Sep-Oct-Nov 2025
Issued: March 20, 2025



Conclusions:

- Moderate to Severe Drought covers most of the Potomac Basin per 4/8/25 Drought Monitor
 - Precipitation deficits more serious longer-term (90-day plus)
 - Impacts cover most of the spectrum EXCEPT water supplies for larger systems
- Mixed Forecast Signals
 - Heavy rain (mix?) next 24 hours, light rain at best ensuing 6 days
 - 6-10 and 8-14 day precipitation outlook is unclear, near-normal most likely
 - 6-10 temperatures average well below normal, then rebounding
 - Monthly (April in sum) temperature and precipitation indeterminate
 - Immediate season (AMJ): Temperature leans warm, continued indeterminate precip. fcst.
 - *Seasonal Drought Outlook calls for improvement, but relatively low confidence*
 - Enhanced odds for wetter-than-normal summer and autumn; both also lean warm