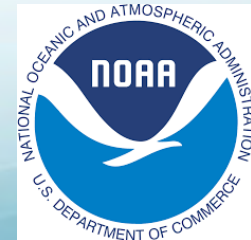


September Review & Northeast DEWS Discussion

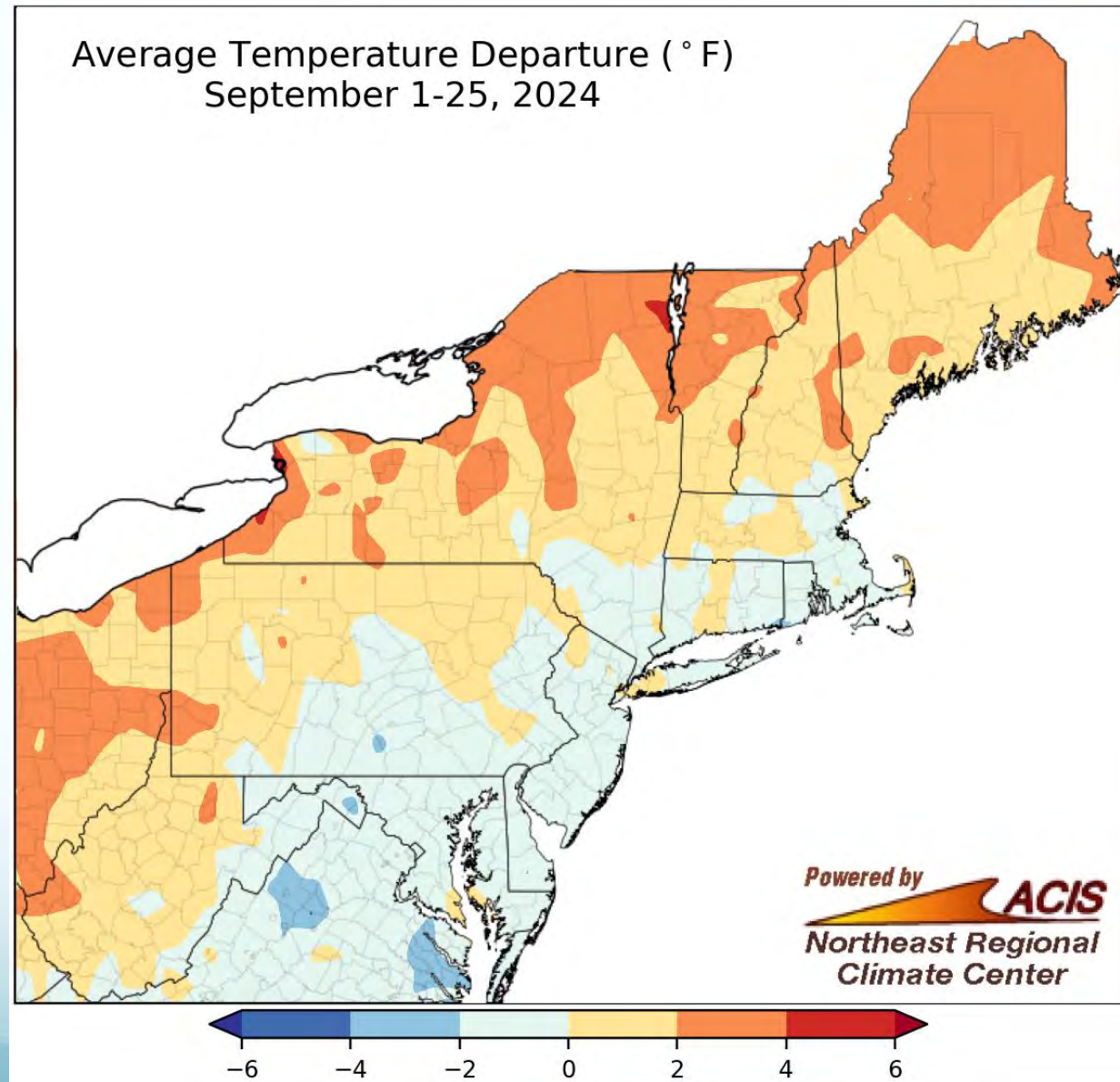
By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



Northeast Regional
Climate Center

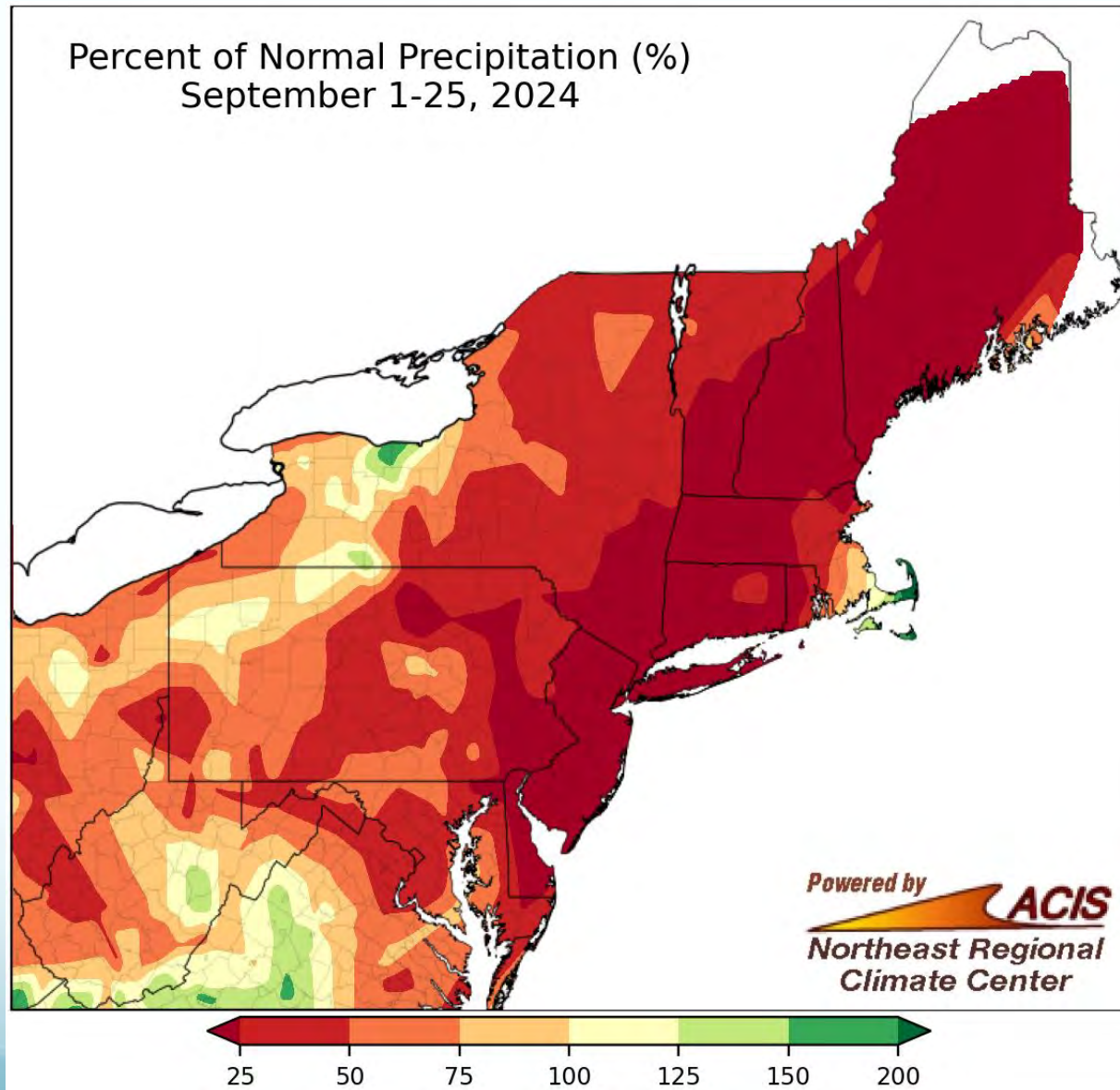


September Temperatures



From 2°F below normal to 4°F above normal

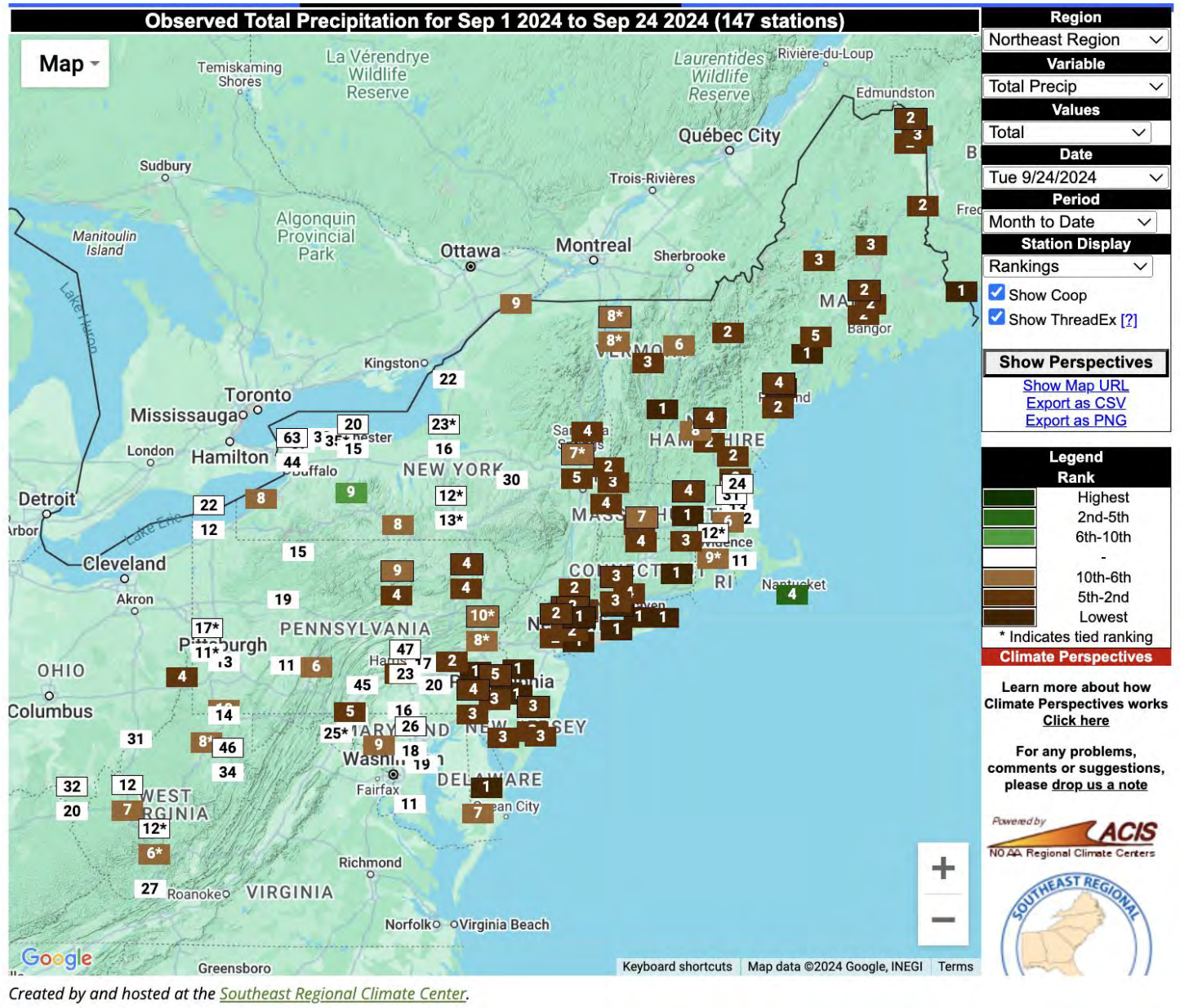
September Precipitation



From less than 25% of normal to near normal for most areas

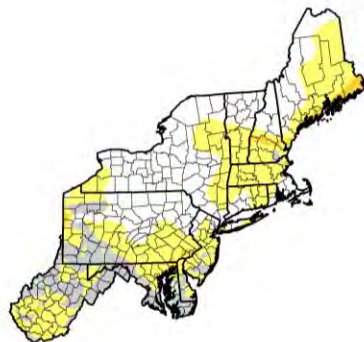


September Precipitation



Drought Monitor

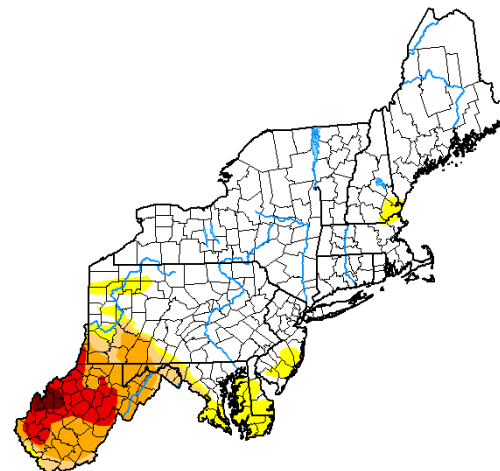
U.S. Drought Monitor Class Change - Northeast Climate Region 4 Week



September 24, 2024
compared to
August 27, 2024

droughtmonitor.unl.edu

U.S. Drought Monitor Northeast



August 27, 2024

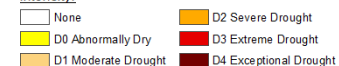
(Released Thursday, Aug. 29, 2024)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	77.85	6.85	3.09	7.28	4.25	0.69
Last Week 08-20-2024	79.25	5.45	4.90	7.64	2.77	0.00
3 Months Ago 05-28-2024	95.90	4.20	0.00	0.00	0.00	0.00
Start of Calendar Year 01-01-2024	87.20	10.30	1.83	0.67	0.00	0.00
Start of Water Year 09-26-2023	88.48	10.08	1.36	0.08	0.00	0.00
One Year Ago 08-29-2023	91.45	6.27	2.26	0.02	0.00	0.00

Intensity



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>

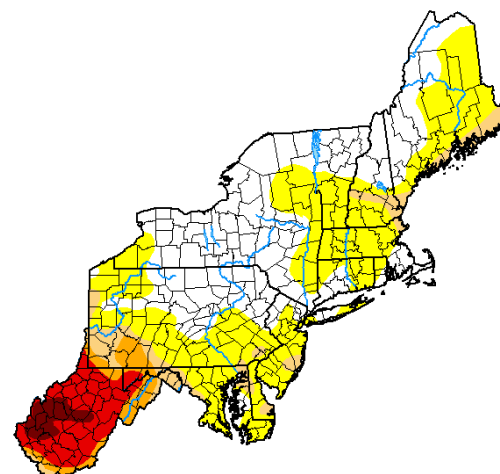
Author:

Richard Heim
NCEI/NOAA



droughtmonitor.unl.edu

U.S. Drought Monitor Northeast



September 24, 2024

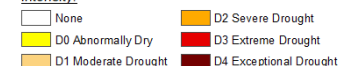
(Released Thursday, Sep. 26, 2024)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	40.98	39.15	6.94	3.57	7.37	1.98
Last Week 09-17-2024	67.38	15.93	3.77	4.91	6.20	1.81
3 Months Ago 06-25-2024	56.71	30.97	12.31	0.00	0.00	0.00
Start of Calendar Year 01-01-2024	87.20	10.30	1.83	0.67	0.00	0.00
Start of Water Year 09-26-2023	88.48	10.08	1.36	0.08	0.00	0.00
One Year Ago 09-26-2023	88.48	10.08	1.36	0.08	0.00	0.00

Intensity



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Author:

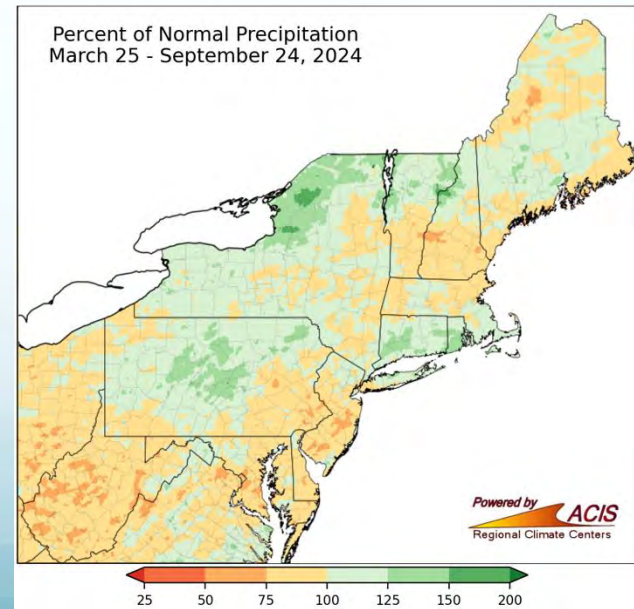
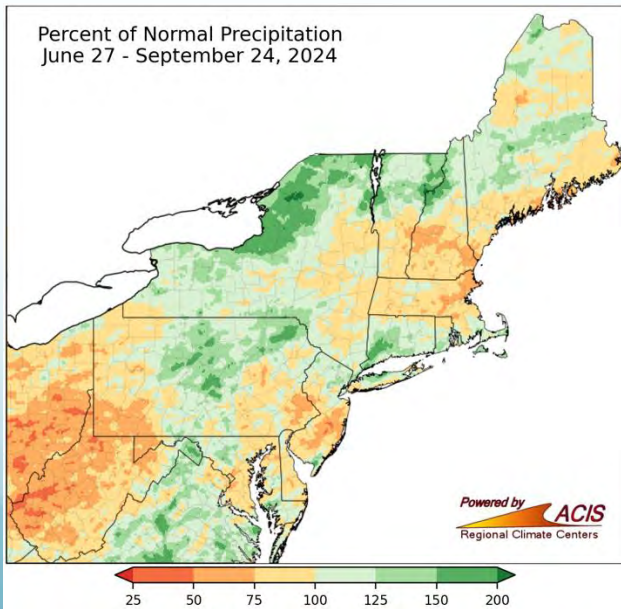
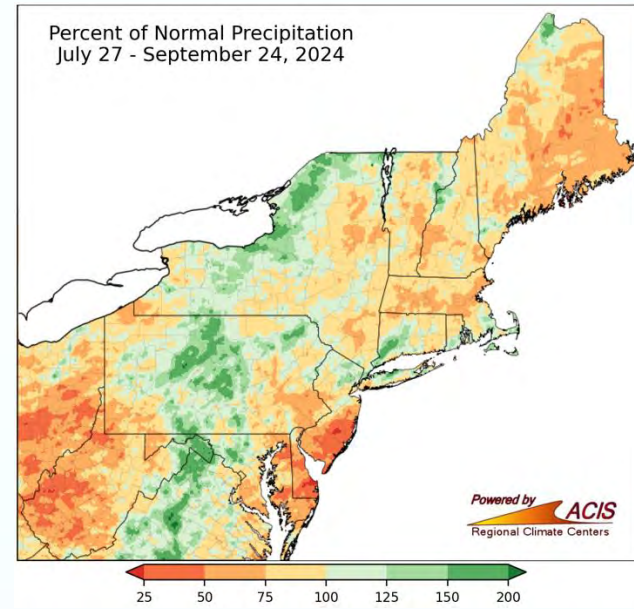
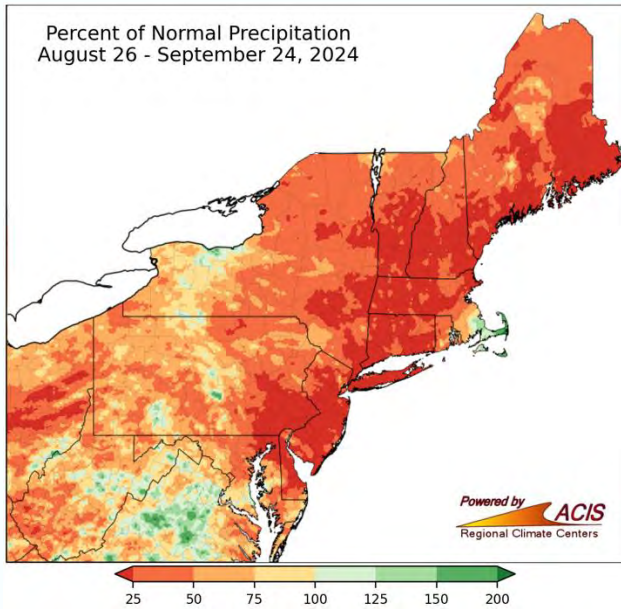
Brad Rippey
U.S. Department of Agriculture



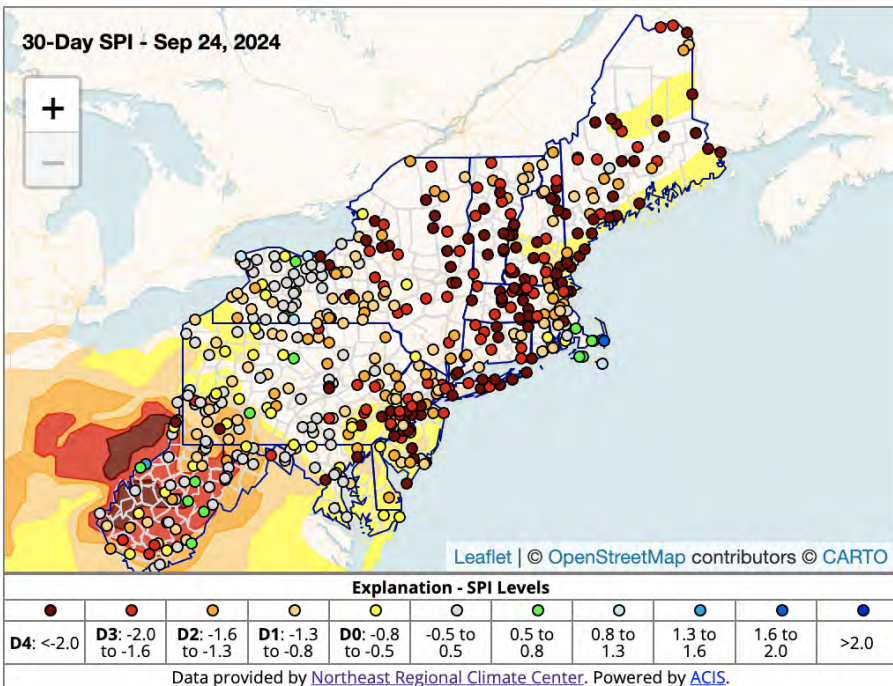
droughtmonitor.unl.edu



Precipitation

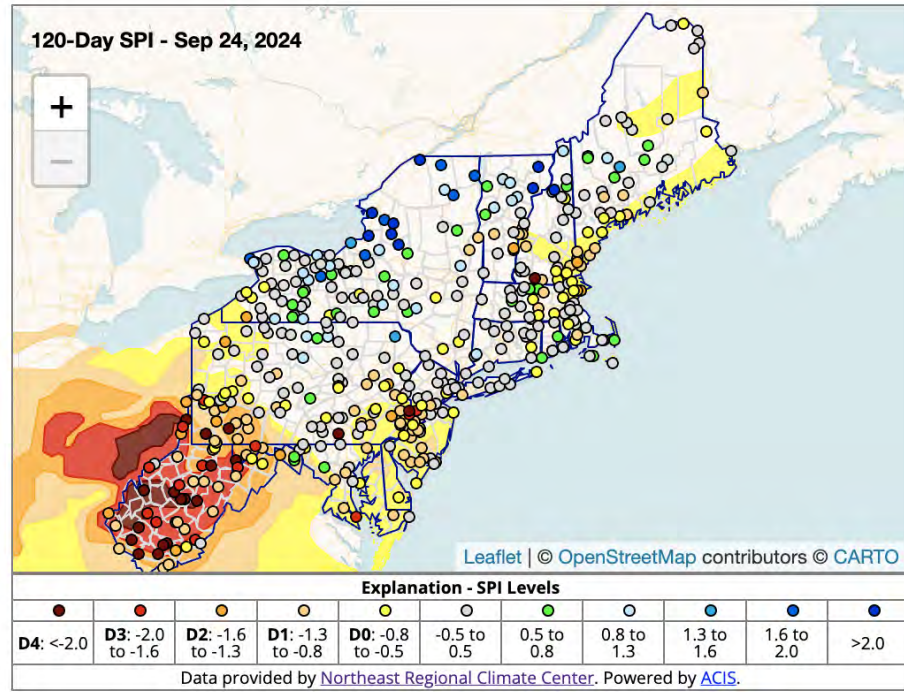


30-Day SPI - Sep 24, 2024



Standardized Precipitation Index

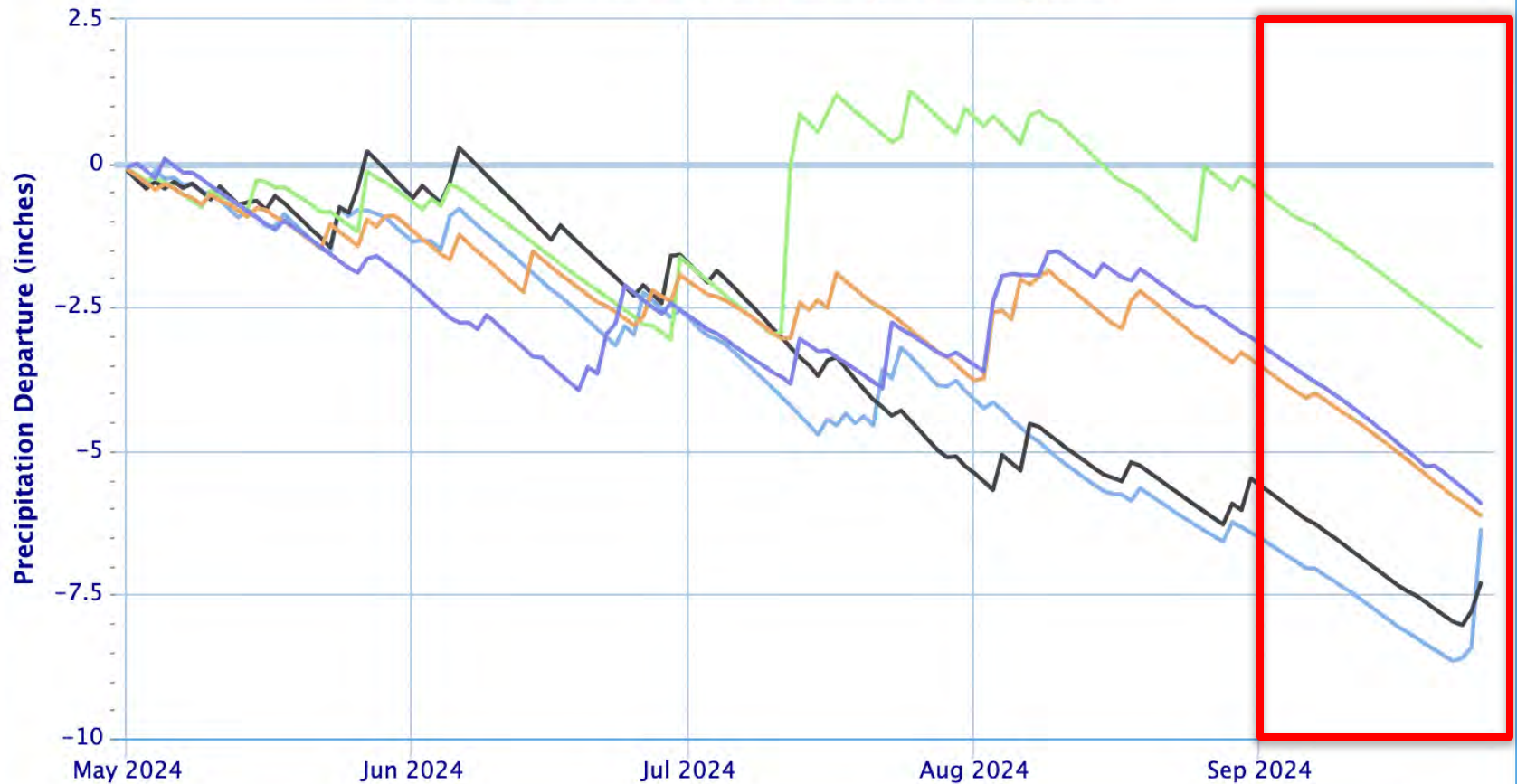
120-Day SPI - Sep 24, 2024



Precipitation

Accumulated Precipitation Departure from Normal

Green/black diamonds represent subsequent/missing values

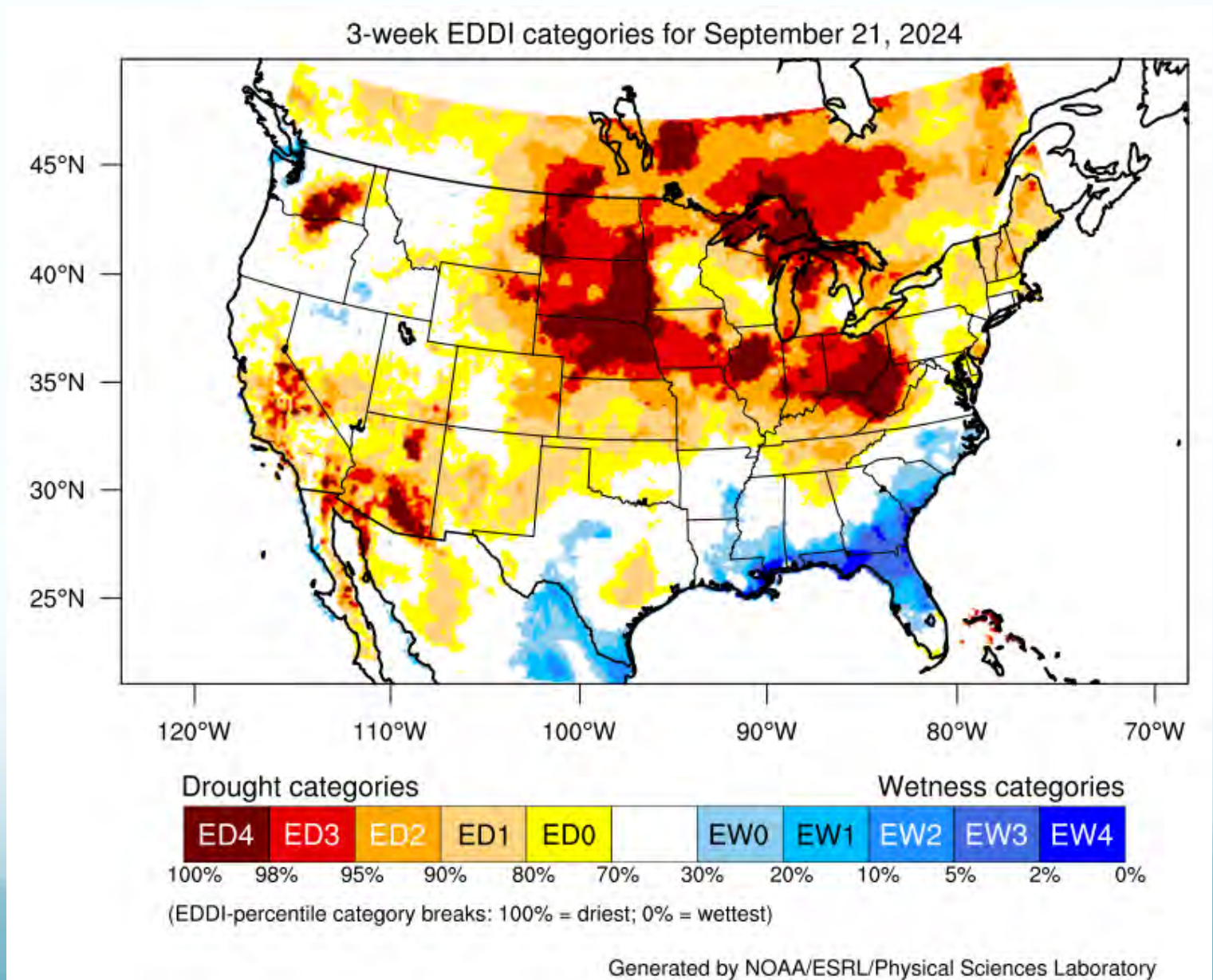


(Click to hide/show lines)

- Beckley Area, WV (ThreadEx):Precip Dprt
- Atlantic City Area, NJ (ThreadEx):Precip Dprt
- Portland Area, ME (ThreadEx):Precip Dprt
- Charleston Area, WV (ThreadEx):Precip Dprt
- New York-Kennedy Airport Area, NY (ThreadEx):Precip Dprt

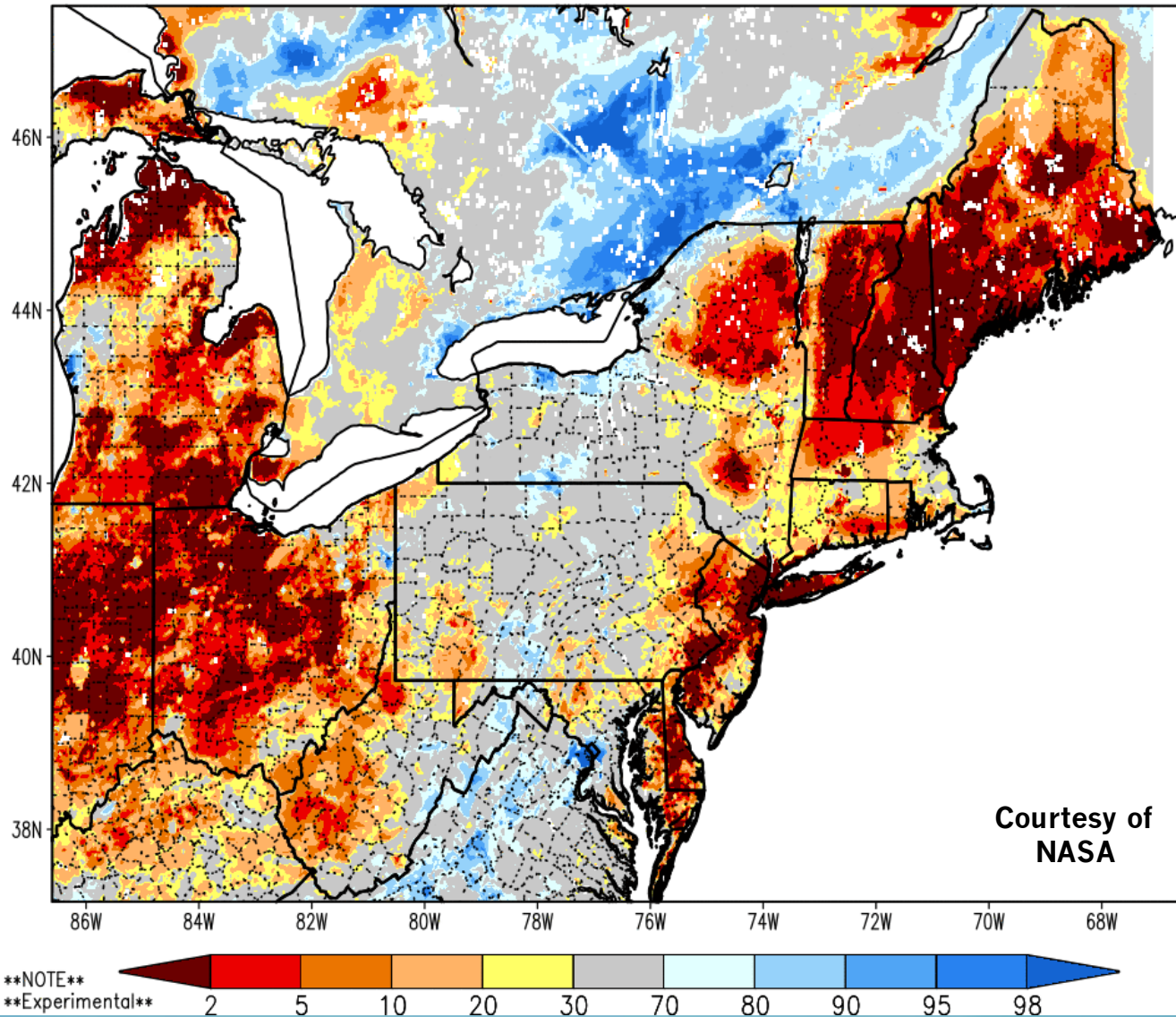


Evap. Demand Drought Index

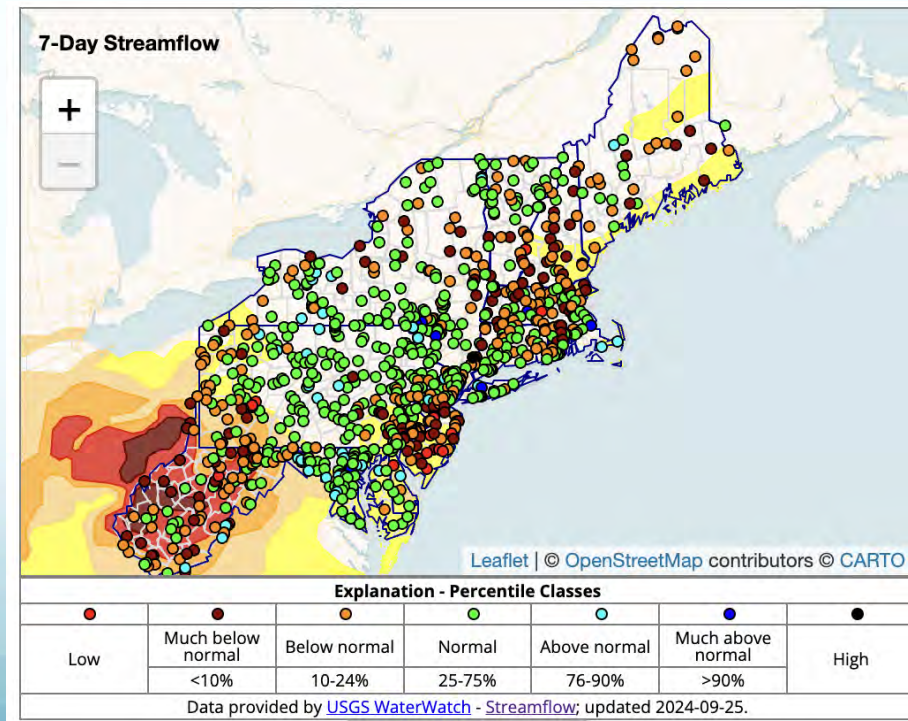
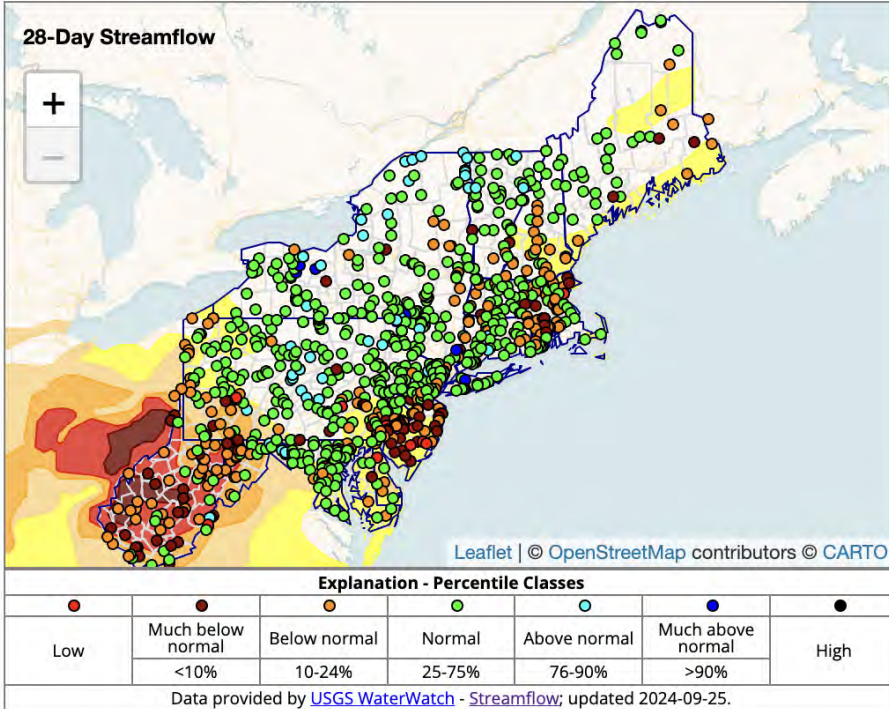


Soil Moisture

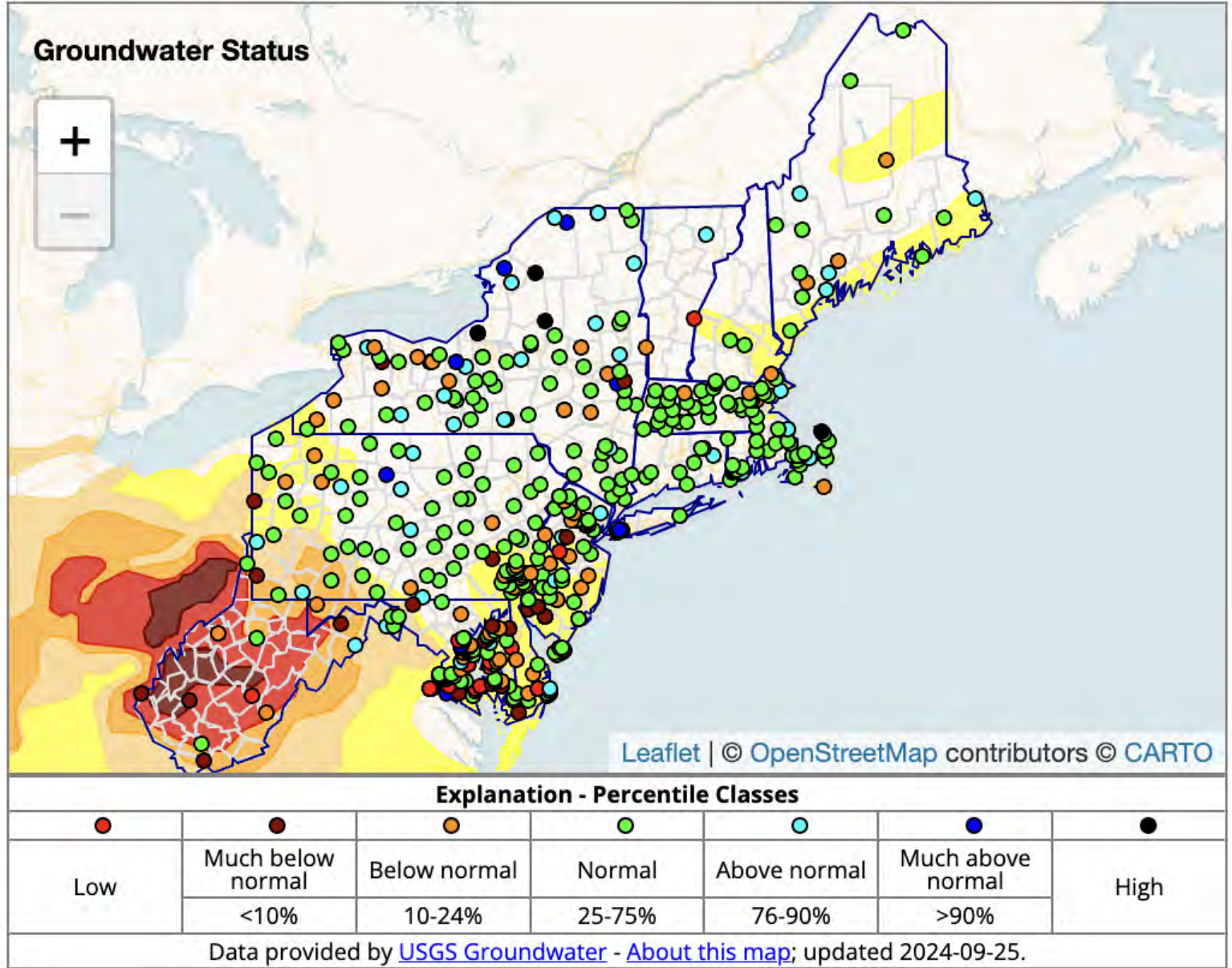
SPoRT-LIS 0–100 cm Soil Moisture percentile valid 26 Sep 2024



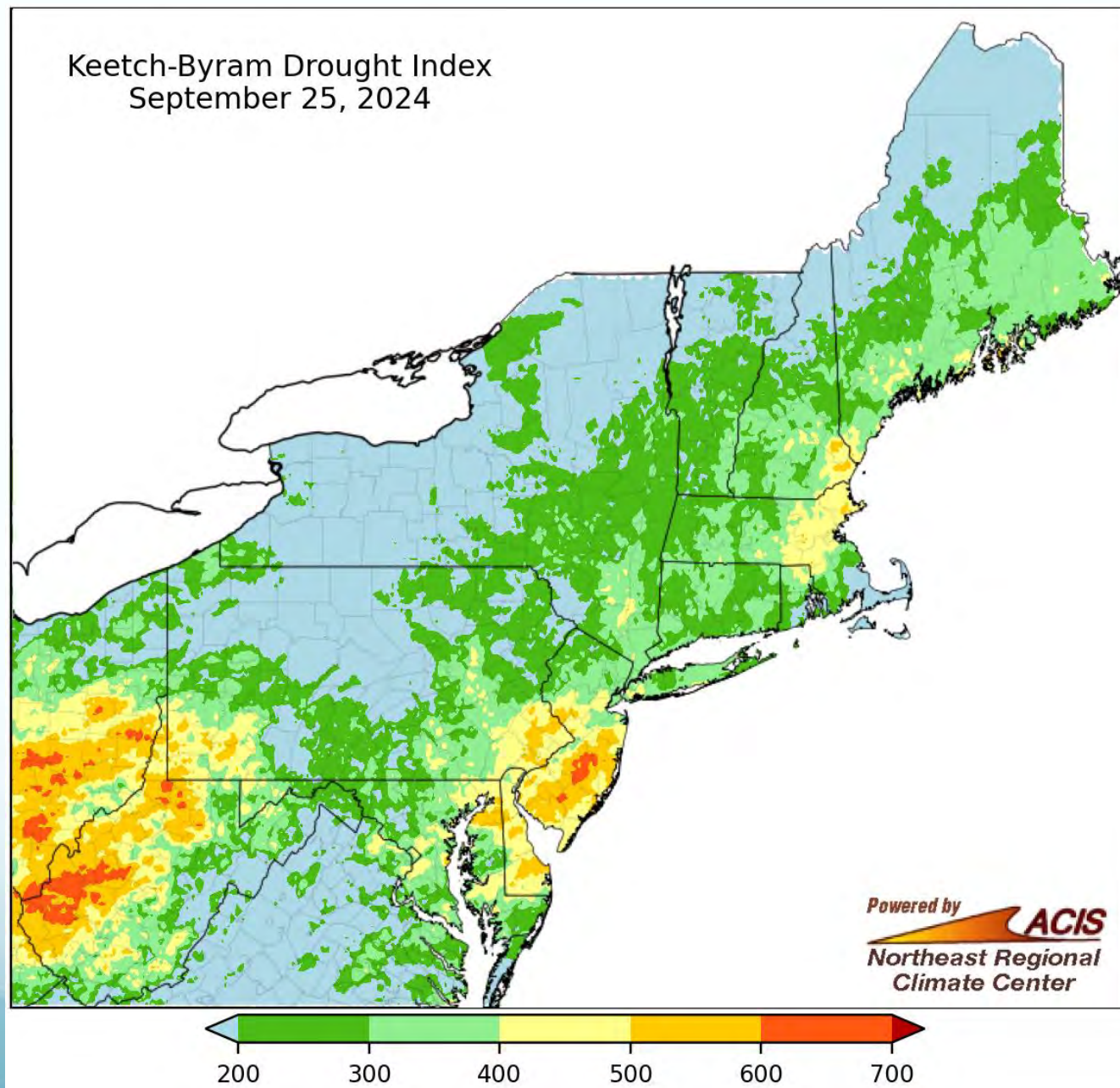
Streamflow



Groundwater



Wildfire Risk



Drought Impacts

NICHOLAS COUNTY, WV

Richwood receiving free water in response to drought

by: [Christian Meffert](#)

Posted: Sep 23, 2024 / 10:33 PM EDT

Updated: Sep 24, 2024 / 12:33 PM EDT

WOWK

Lincoln County officials initiate burn ban amid drought conditions

by STAFF REPORTS | Fri, September 20th 2024 at 10:21 PM

Updated Sat, September 21st 2024 at 1:07 PM

WCHS

West Virginia fire departments brace for high risk of wildfires this fall

WHSV

Firefighting efforts hindered as drought dries up usual water sources in Ohio Valley

by SKYLAR SOBANSKY | Mon, September 16th 2024 at 2:54 PM

Updated Mon, September 16th 2024 at 6:10 PM

WTOV



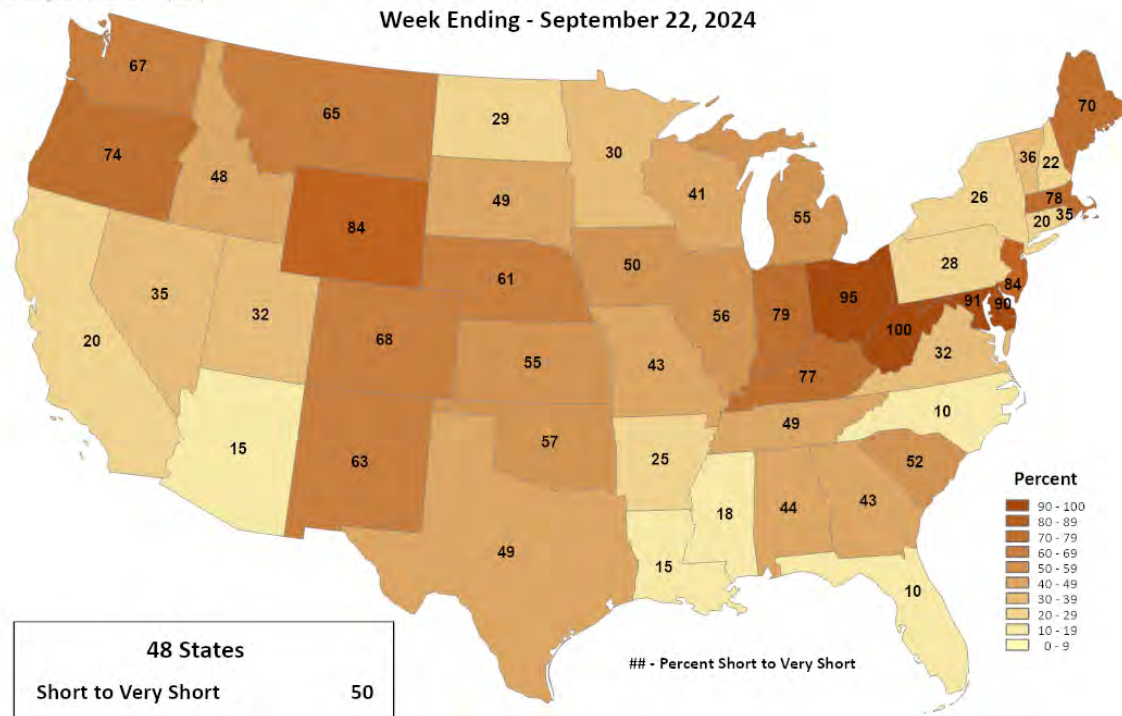
United States
Department of
Agriculture

This product was prepared by the
USDA Office of the Chief Economist (OCE)
World Agricultural Outlook Board (WAOB)

Topsoil Moisture

Percent Short to Very Short

Week Ending - September 22, 2024



Data obtained from USDA National Agricultural Statistics Service weekly Crop Progress reports.

CROP and LIVESTOCK CONDITIONS for week ending 9/22/24

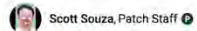
Crop/Livestock	Very Poor	Poor	Fair	Good	Excellent
	%	%	%	%	%
Apples	20	28	52	-	-
Corn	30	52	18	-	-
Hay	37	52	11	-	-
Pasture	55	40	5	-	-
Soybeans	34	50	16	-	-
Cattle & Calves	9	26	48	17	-
Sheep & Lambs	6	22	46	26	-

- Represents zero.

Drought/Dryness Impacts

Peabody Imposes Mandatory Outdoor Water Ban Amid Historic Dry Spell

Peabody residents are prohibited from watering their lawns and washing their cars until further notice.



Scott Souza, Patch Staff

Posted Tue, Sep 17, 2024 at 12:08 pm ET

News From Around the Basin – September 19, 2024

September 19, 2024 | Potomac News Reservoir

[A rainy drought, fall foliage, data center water use, and more, in this week's Potomac News Reservoir – September 19, 2024 >>>](#)

River Report – Drought continues, despite recent rain

Maryland.gov

Maryland Fall Foliage Preview 2024

Many of Maryland's trees are changing color earlier than usual this year due to drought. Marylanders can also expect to see more yellow and...

5 days ago



Foliage 2024

Small forest fire in Georgetown Monday, state urges caution in dry conditions

 **Shannon Marvel McNaught**
Delaware News Journal

Published 5:50 p.m. ET Sept. 16, 2024 | Updated 3:11 p.m. ET Sept. 17, 2024



Summary of Impacts

Links: See/submit [Condition Monitoring Observer Reports \(CMOR\)](#) and view the [Drought Impacts Reporter](#)

Hydrologic Impacts

- 7-day average streamflows continue well below much of southeast OH and WV lowlands
- Several reservoir lake levels are well below summer pools
- Water quality issues emerging in Lumberport (Harrison County)
- Some fish kills are now being reported

Agricultural Impacts

- Low soil moisture has stunted crop growth in many parts of the state
- Crop yield losses continue to be reported in the state particularly in the western, central, and eastern panhandle of the state
 - Lack of hay has resulted in supplemental feeding
 - Significant early sales of livestock
- Hauling of water for livestock continues across many parts of the state, particularly across western and central WV

Fire Hazard Impacts

- Increased brush fire activity with increased fire danger going forward without any rainfall
 - Amplified on days with wind

Mitigation Actions

- Emergency Water Conservation for Richwood (Nicholas County)
- Water hauling for town of Calhoun County (waste water treatment purposes)



National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Charleston, WV



Summary of Impacts

Links: See/submit [Condition Monitoring Observer Reports \(CMOR\)](#) and view the [Drought Impacts Reporter](#)

Hydrologic Impacts

- Streamflows remain well below normal in both the last 14 and 30 day timeframes, especially in the Cheat, Monongahela, Ohio and Muskingum River basins and sub-basins.
- Private wells are low or completely dry in OH and WV.

Agricultural Impacts

- Soil moisture remains in the 1-5% over much of eastern Ohio and northern West Virginia.
- Hay and pasture are poor or very poor across OH and WV. [USDA](#)
- Farmers are hauling water for livestock and supplemental feeding.

Fire Hazard Impacts

- Significant Wildfire Potential Outlook is above normal for portions of eastern Ohio, northern West Virginia, and southwestern Pennsylvania. [NIFC](#)
- Burn Ban in effect in Extreme and Exceptional drought areas in OH.

Mitigation Actions

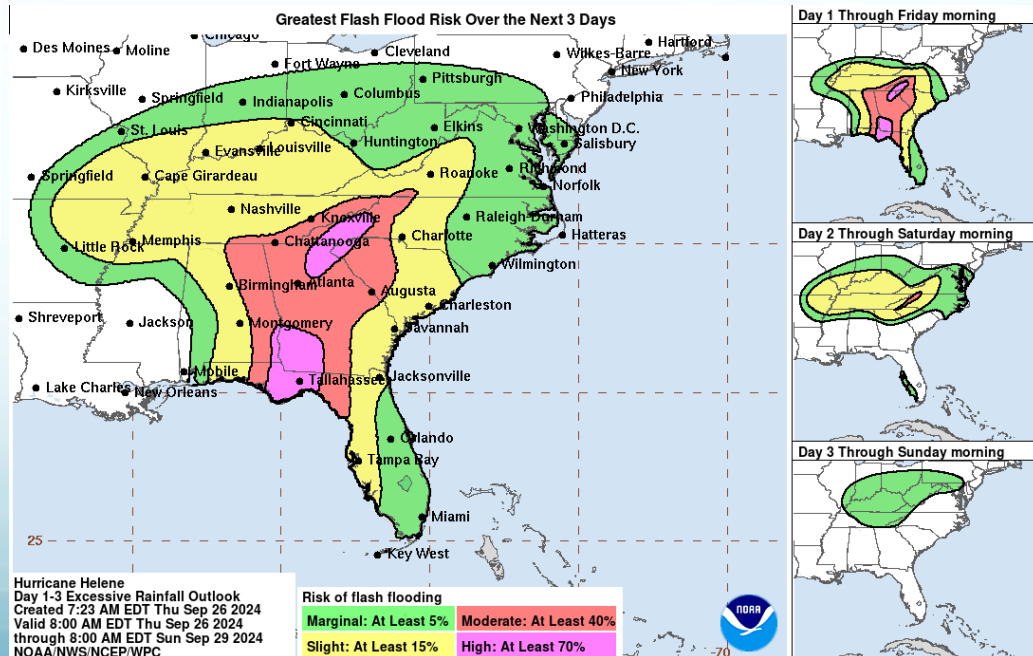
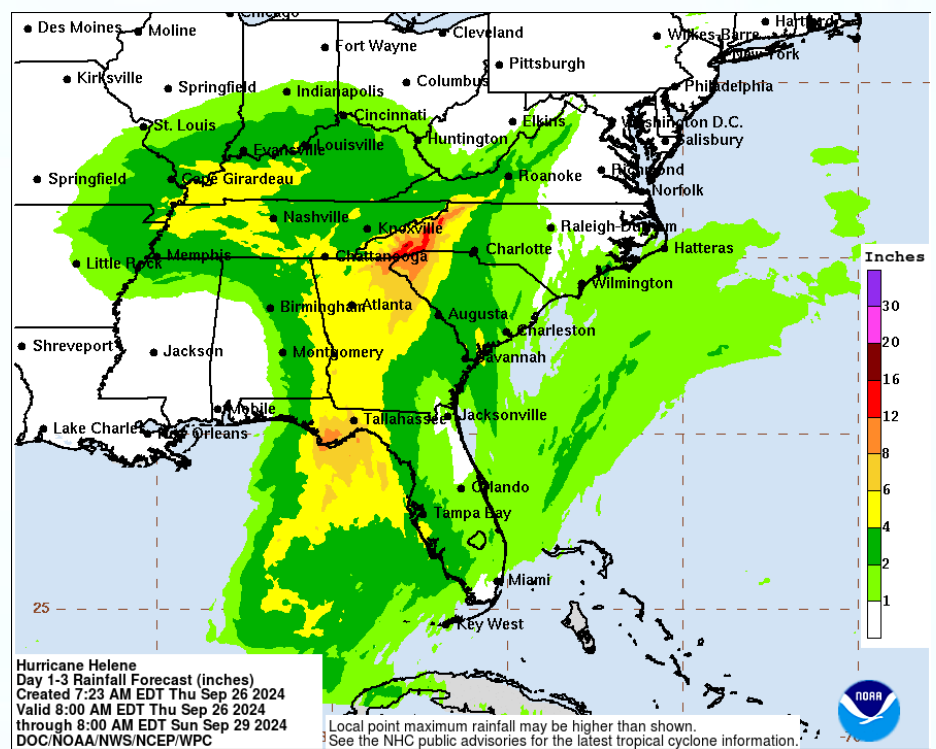
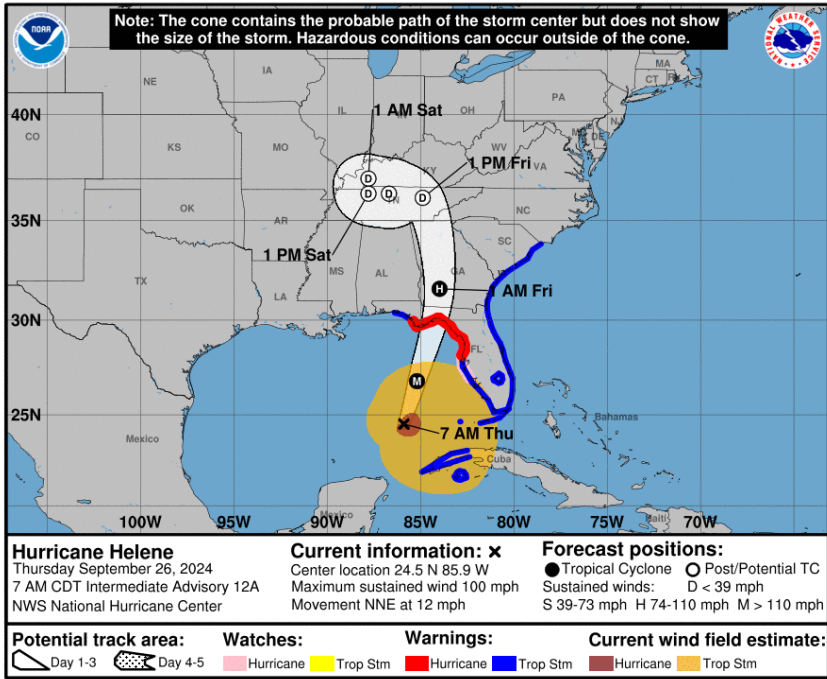
- Some voluntary water restrictions have been put in place.



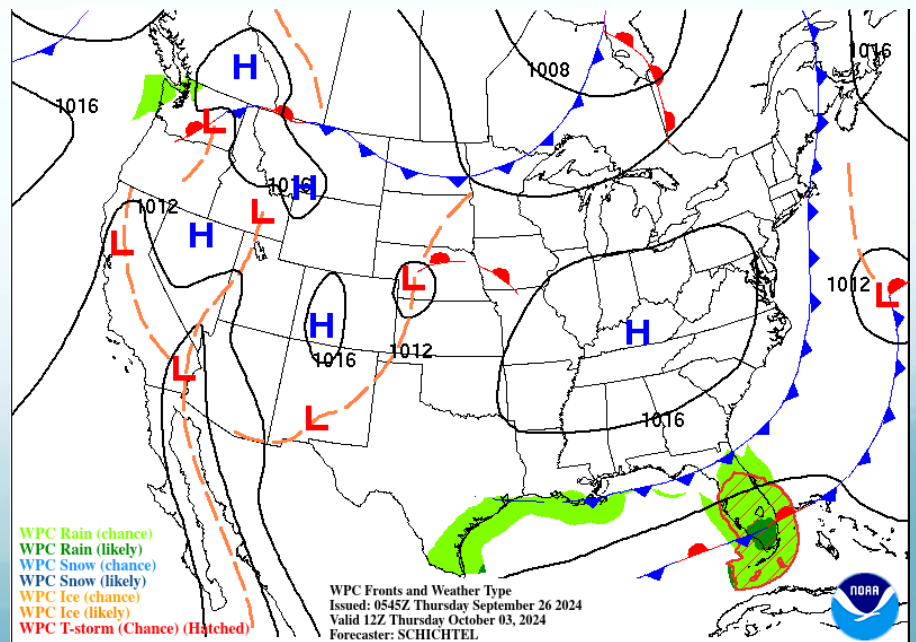
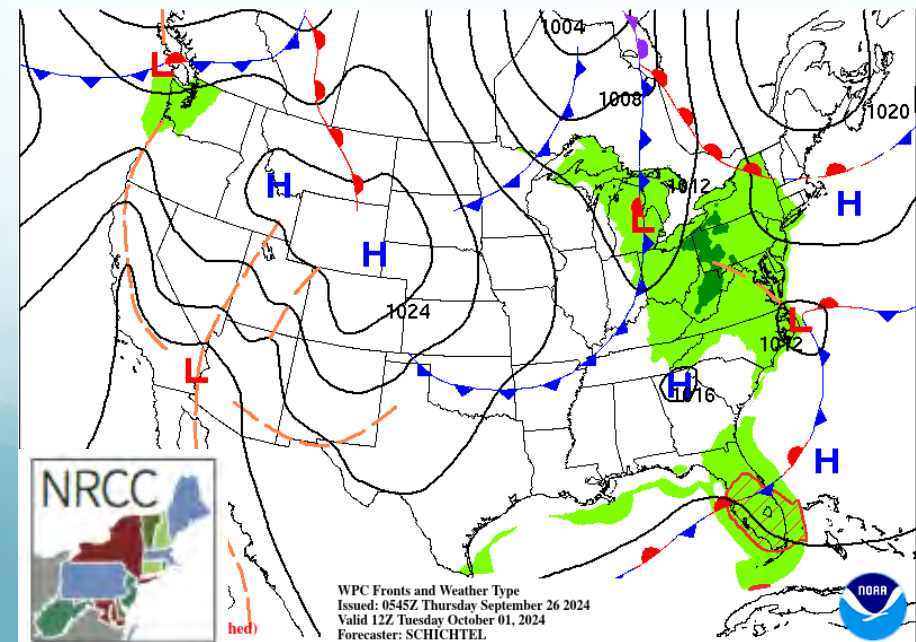
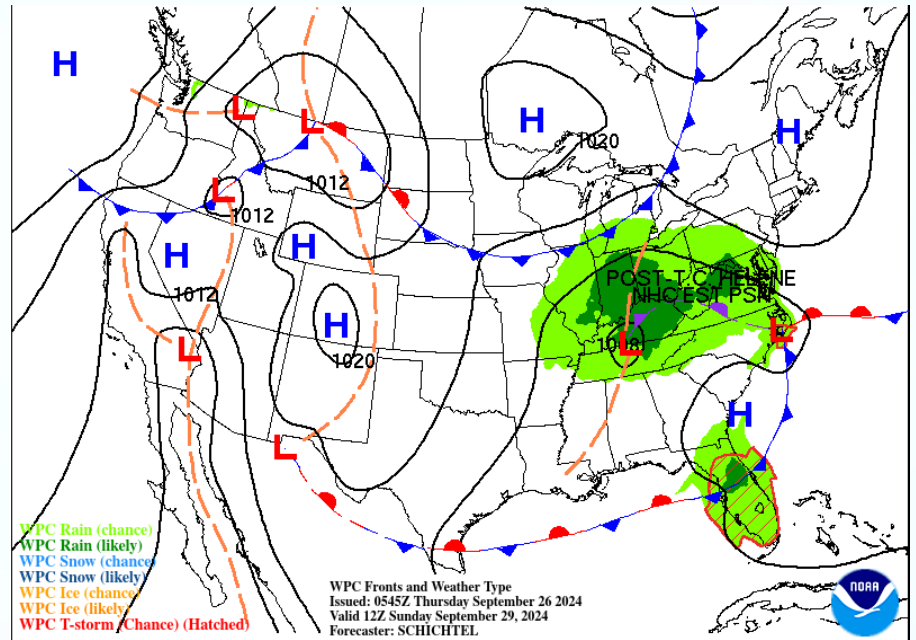
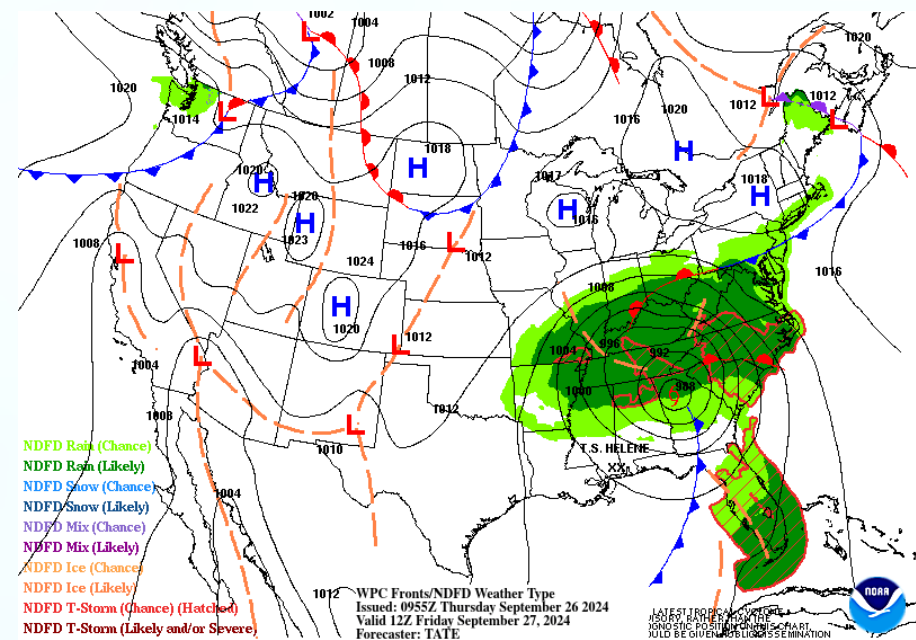
National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Pittsburgh, PA

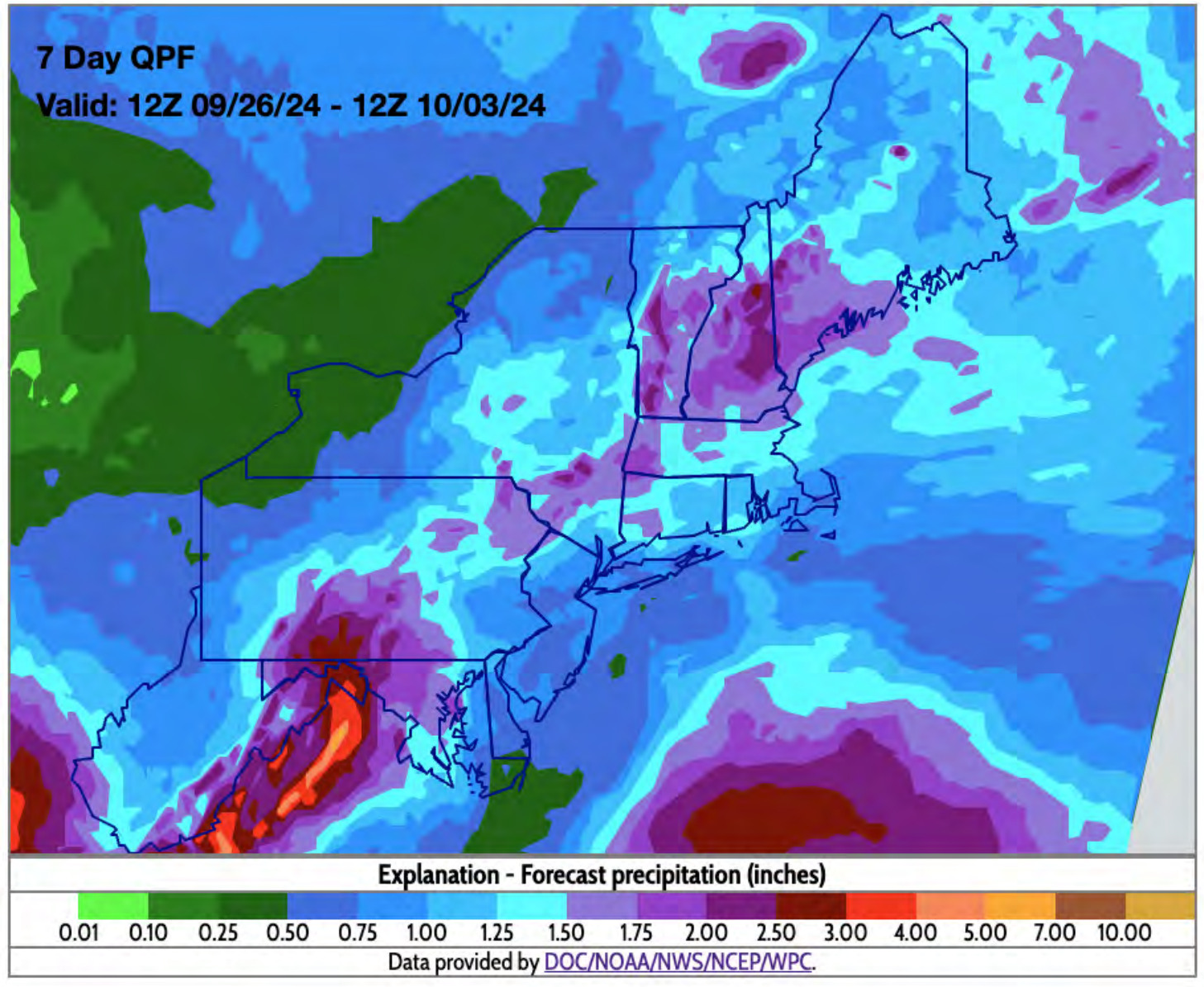
Tropical Outlook



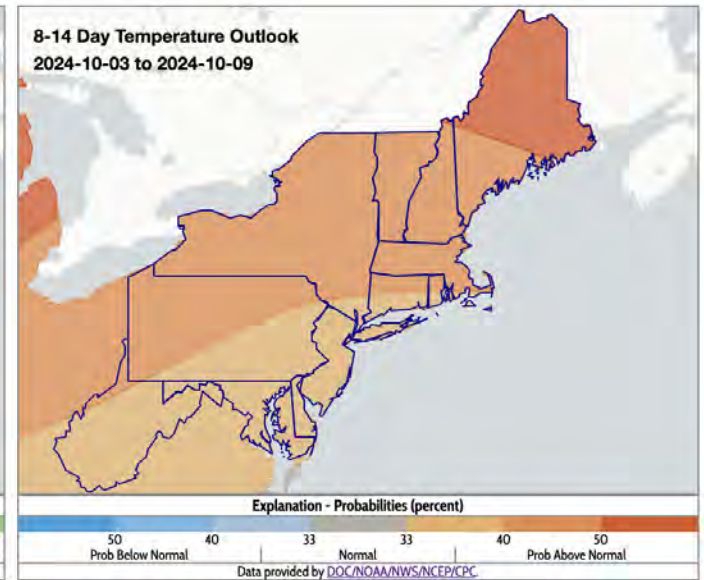
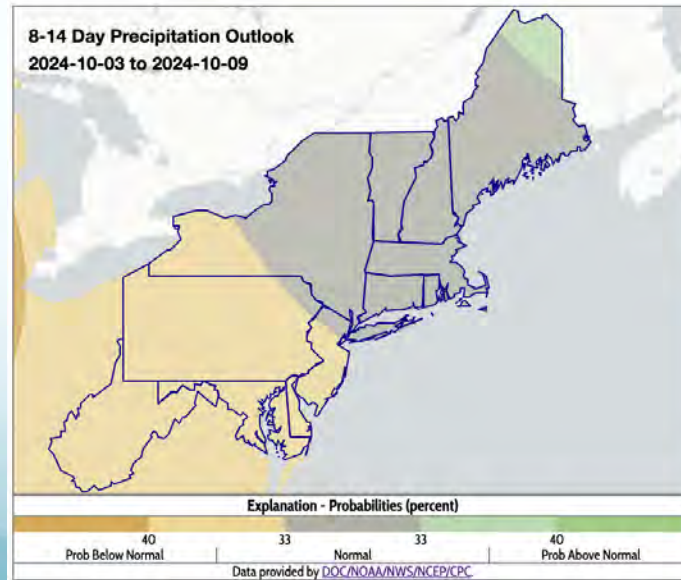
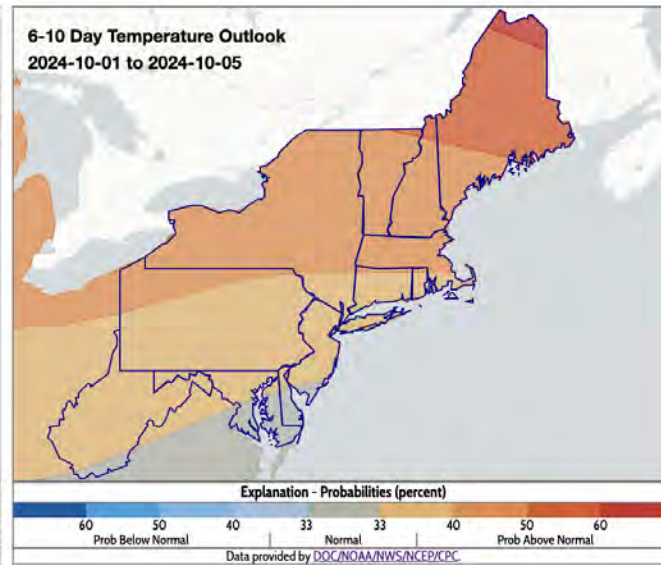
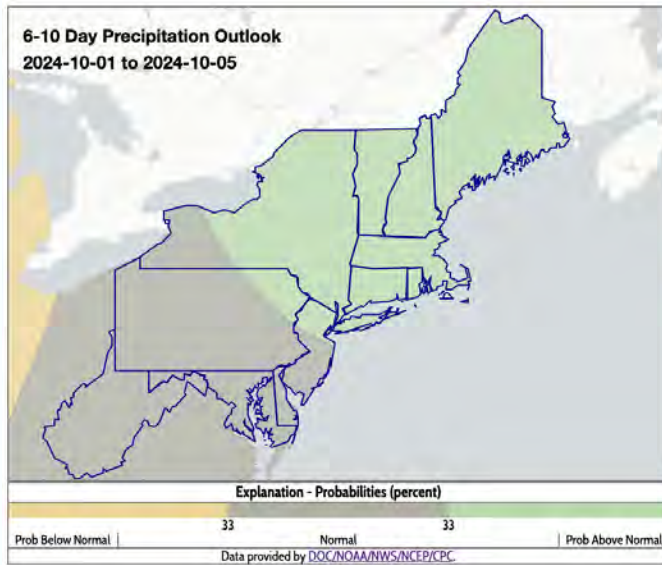
Forecast Maps



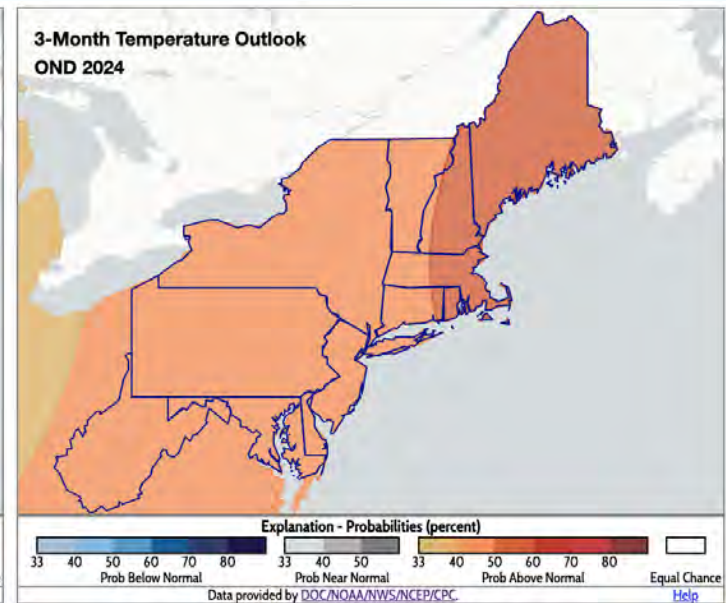
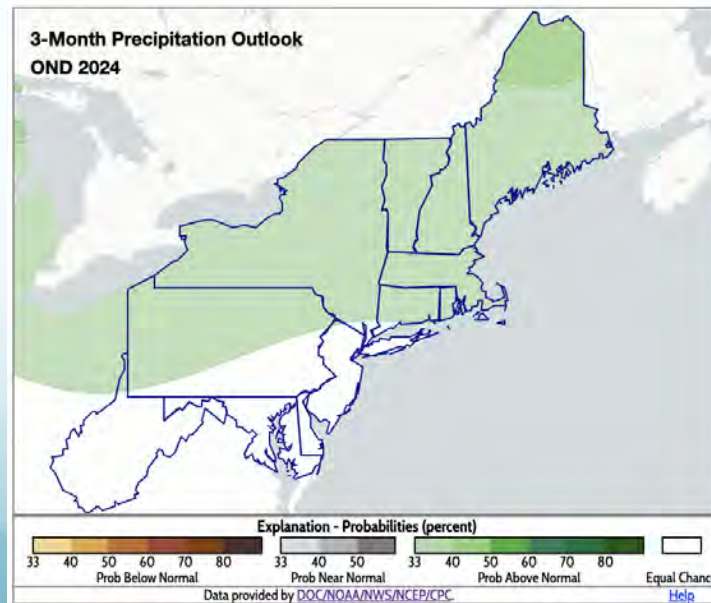
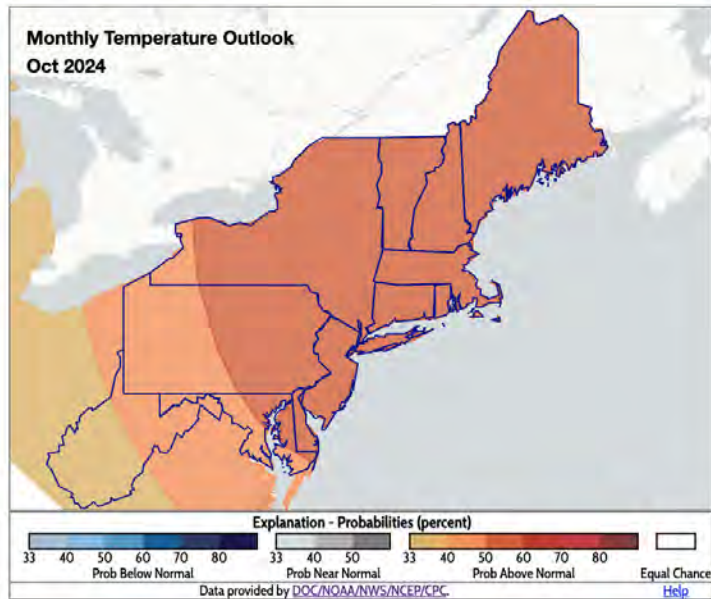
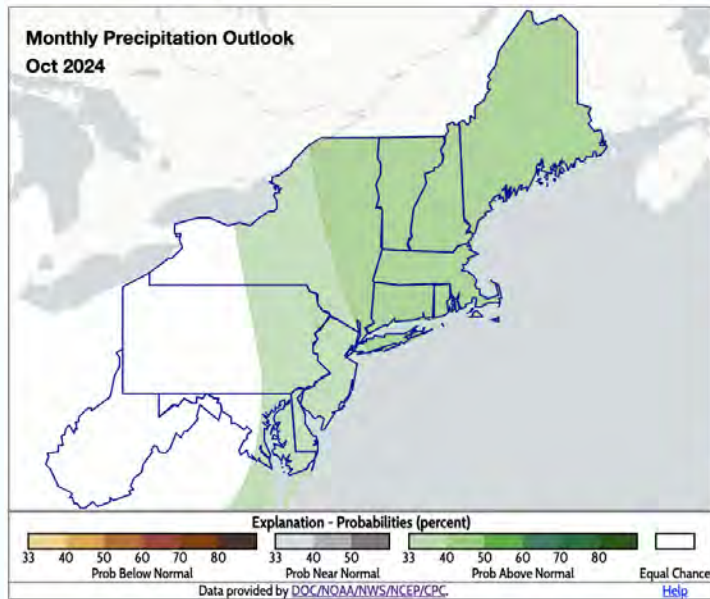
Precipitation Forecast



Short-term Outlooks



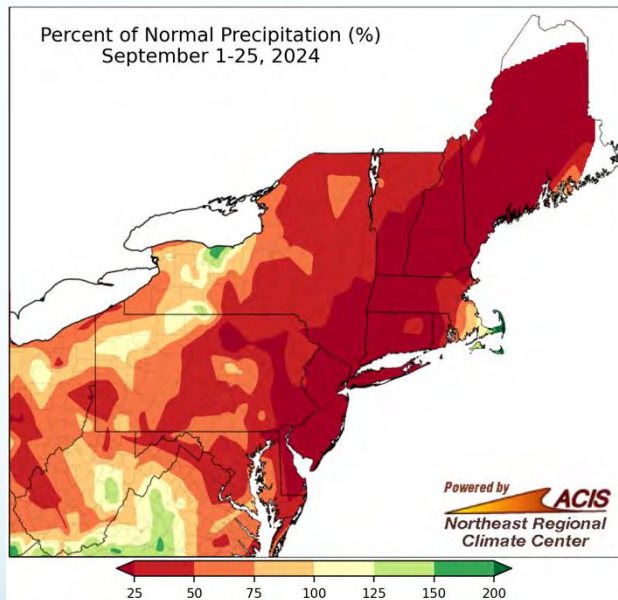
Monthly & 3-Month Outlooks



Summary

September-to-date conditions:

- Variable temperatures – cooler southeast and warmer northern/interior
- Drier than normal for most of the region



Drought:

- Record-high coverage of drought in WV
 - Significant drought impacts such as crop losses, reduced water levels, increased fire risk, etc. continue
- Drought and abnormal dryness expanded across the entire Northeast

Outlooks:

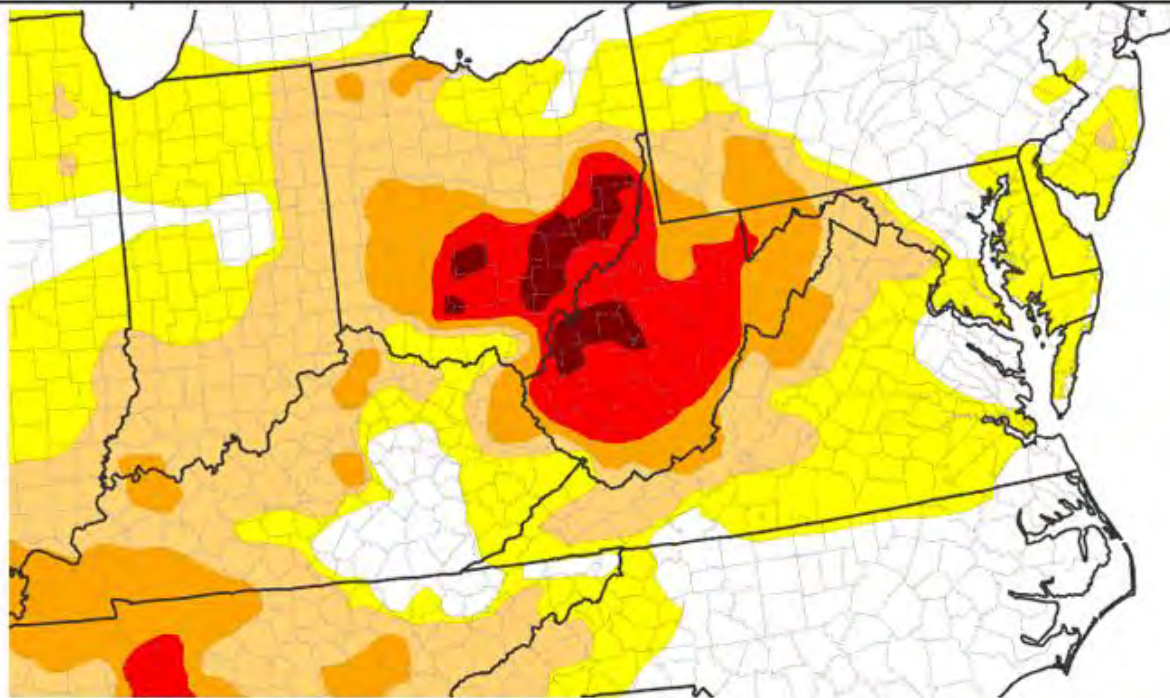
- Hurricane Helene could bring heavy rain to a few southern locations
- Short-term: near- or above-normal precipitation and above-normal temperatures favored for 6-10 day and 8-14 day periods
- Oct and Oct-Dec: above-normal precipitation favored for northern and/or coastal areas; above-normal temperatures expected for entire region



Drought Webinar

**Special Drought Webinar
for West Virginia and Ohio**

Friday, September 27, 2024, 11 am - 1 pm ET



U.S. Drought Monitor



Source(s): NDMC, NOAA, USDA

Data Valid: 09/10/24

Drought.gov



Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Thursday, October 31 at 9:30am EDT
 - NYS Extreme Heat Action Plan
- Thursday, November 21 at 9:30am EST
 - Use of NOAA Radar Data to Analyze Extreme Precip
- Thursday, December 19 at 9:30am EST
 - ENSO & Winter Outlook



www.nrcc.cornell.edu