

April Review & Northeast DEWS Discussion

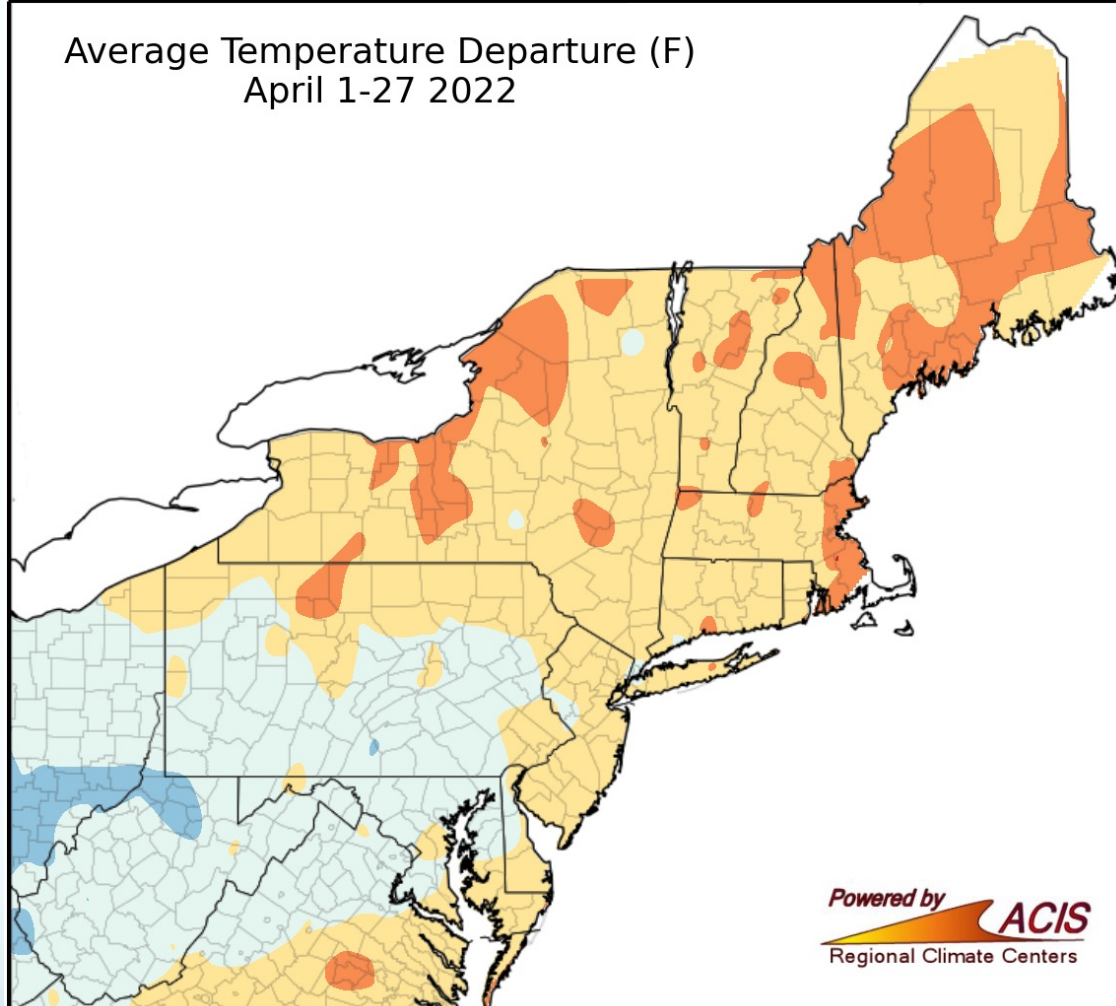
By: Jessica Spaccio, Climatologist
Northeast Regional Climate Center



Northeast Regional
Climate Center



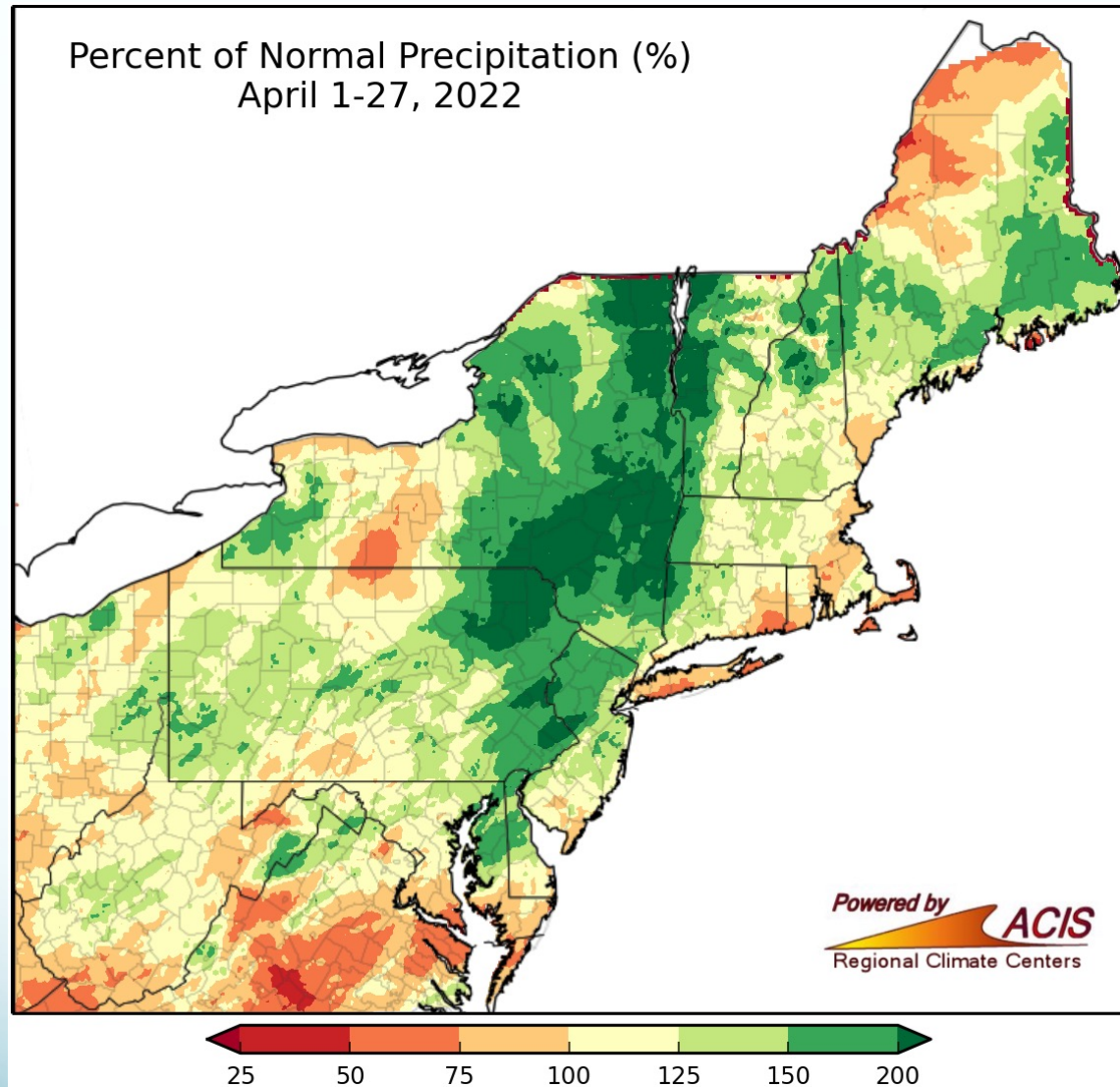
April Temperatures



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



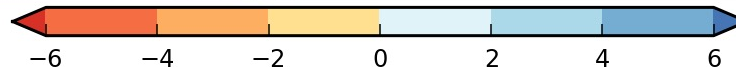
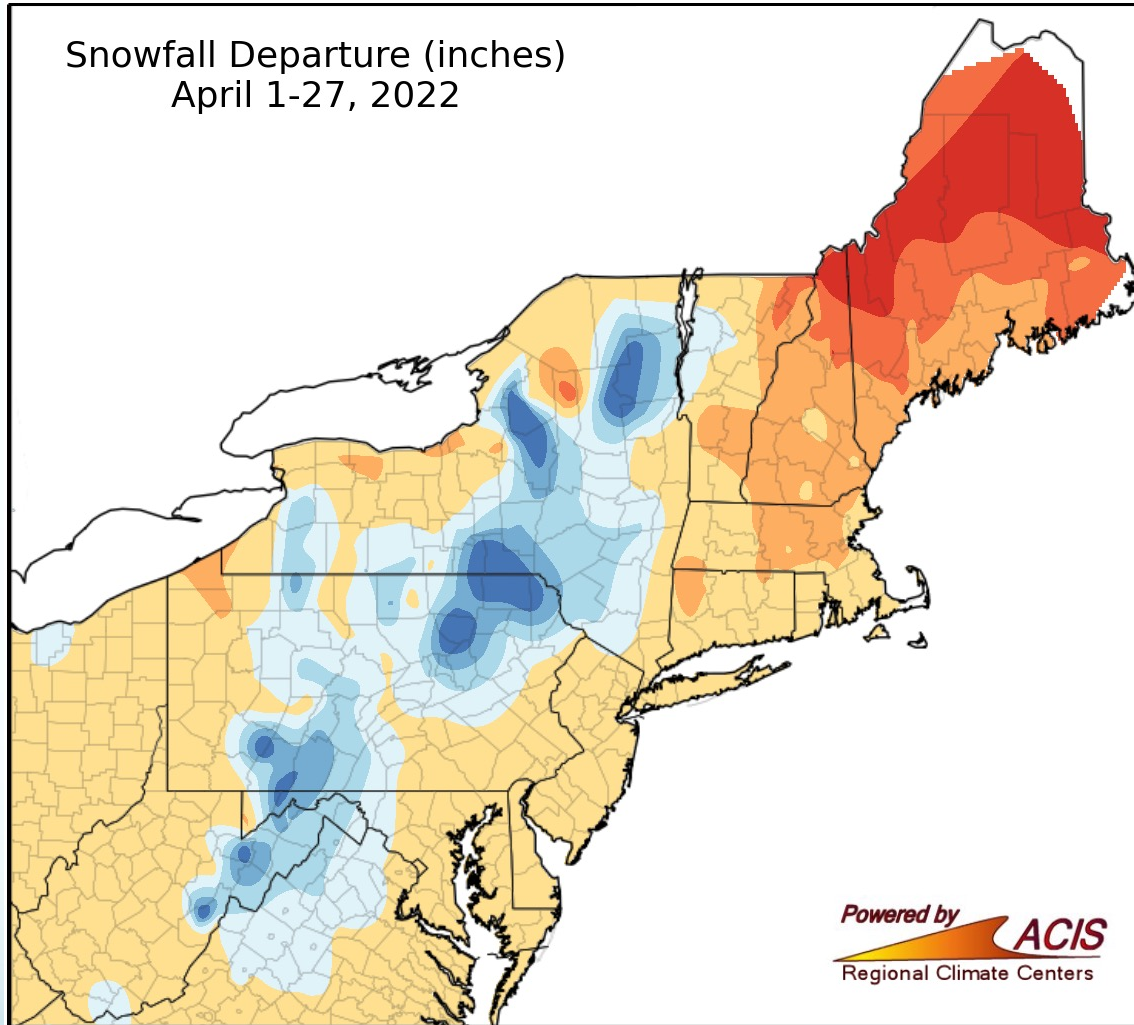
April Precipitation



From 50% of normal to 200% of normal

April Snowfall

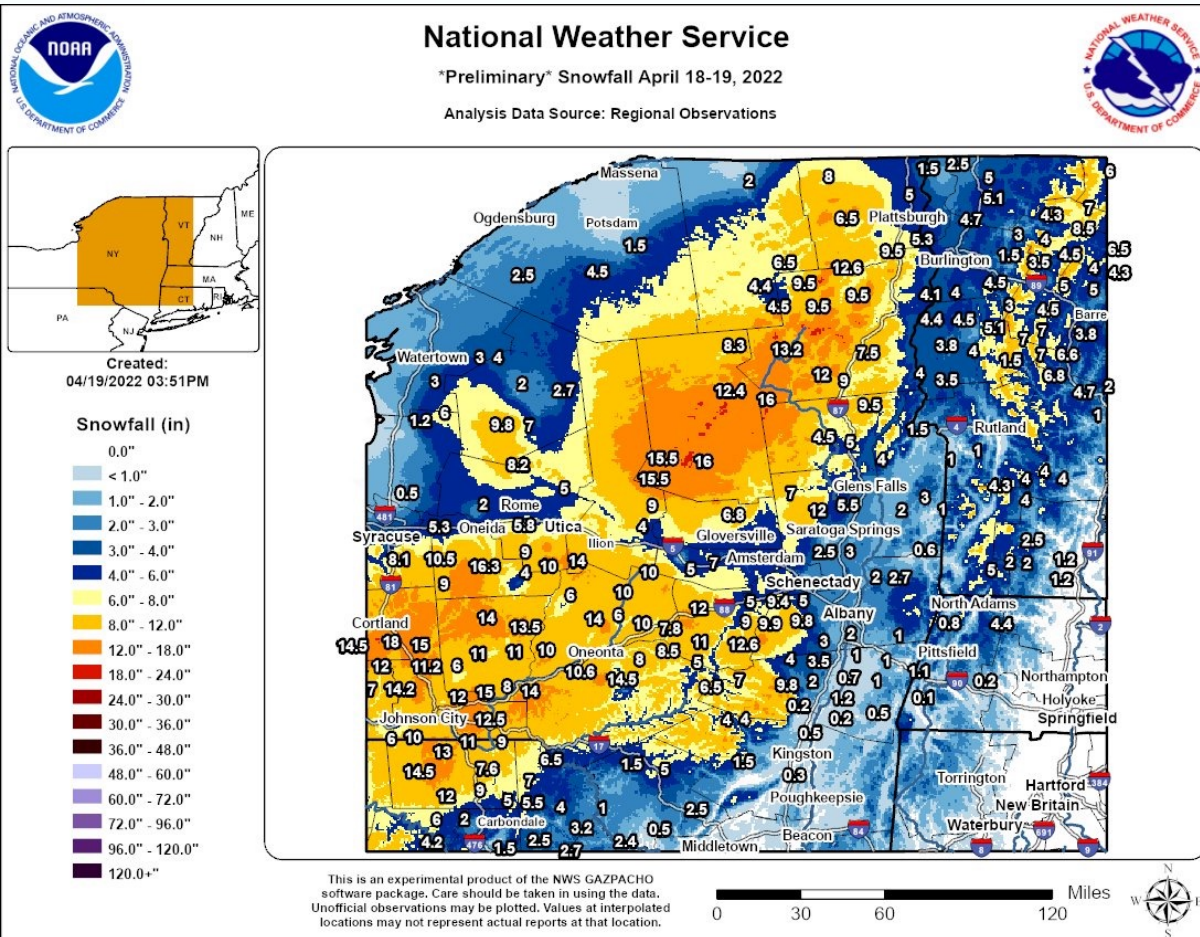
Snowfall Departure (inches)
April 1-27, 2022



From more than 6" below normal to 6" above normal

Late-Season Nor-Easter

April 18-19

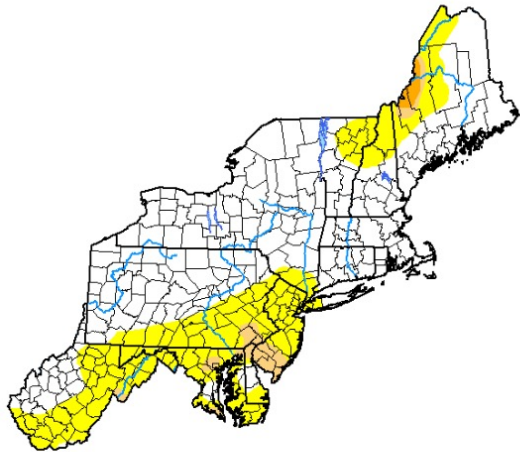


- 12-18" of snow in NY & PA
- 14.6" in Binghamton, greatest 2-day April total
- 300,000 lost power in Northeast



Drought Monitor

U.S. Drought Monitor Northeast



April 5, 2022
(Released Thursday, Apr. 7, 2022)
Valid 8 a.m. EDT

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	67.03	32.97	3.51	0.67	0.00	0.00
Last Week 03-29-2022	71.90	28.10	3.13	0.67	0.00	0.00
3 Months Ago 01-04-2022	84.91	15.09	2.17	0.85	0.00	0.00
Start of Calendar Year 01-04-2022	84.91	15.09	2.17	0.85	0.00	0.00
Start of Water Year 09-28-2021	90.30	9.70	3.14	0.80	0.00	0.00
One Year Ago 04-06-2021	59.87	40.13	10.27	0.00	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>

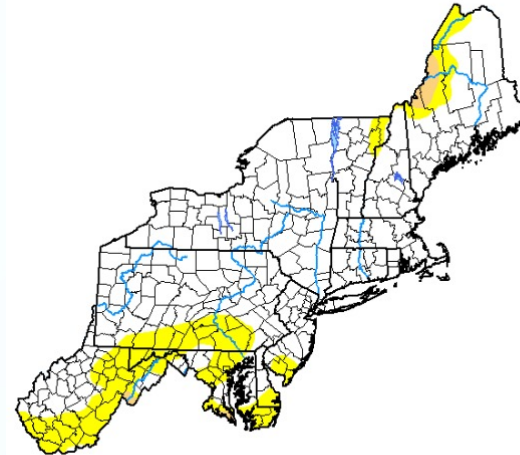
Author:

Deborah Bathke
National Drought Mitigation Center



droughtmonitor.unl.edu

U.S. Drought Monitor Northeast



April 26, 2022
(Released Thursday, Apr. 28, 2022)
Valid 8 a.m. EDT

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	81.37	18.63	1.24	0.00	0.00	0.00
Last Week 04-19-2022	81.37	18.63	1.24	0.00	0.00	0.00
3 Months Ago 01-25-2022	89.35	10.65	2.04	0.85	0.00	0.00
Start of Calendar Year 01-04-2022	84.91	15.09	2.17	0.85	0.00	0.00
Start of Water Year 09-28-2021	90.30	9.70	3.14	0.80	0.00	0.00
One Year Ago 04-27-2021	45.90	54.10	13.54	0.00	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:

Brad Rippey
U.S. Department of Agriculture



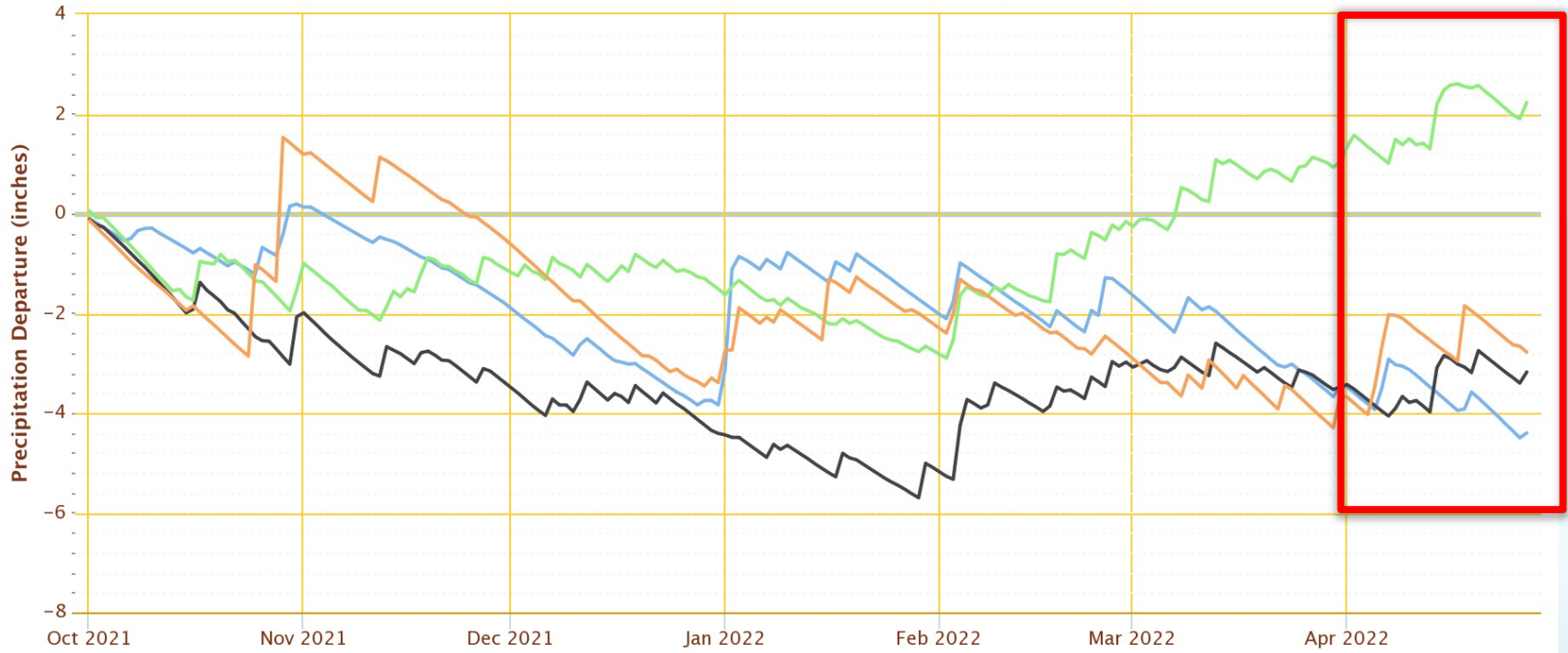
droughtmonitor.unl.edu



Precipitation

Accumulated Precipitation Departure from Normal

Green/black diamonds represent subsequent/missing values



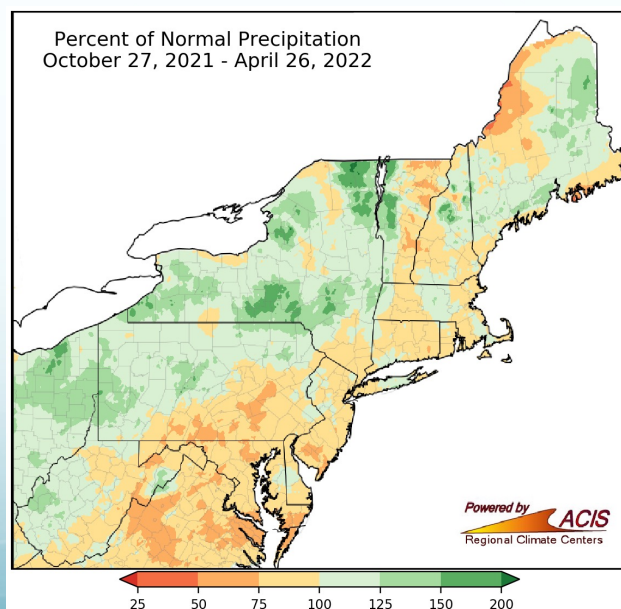
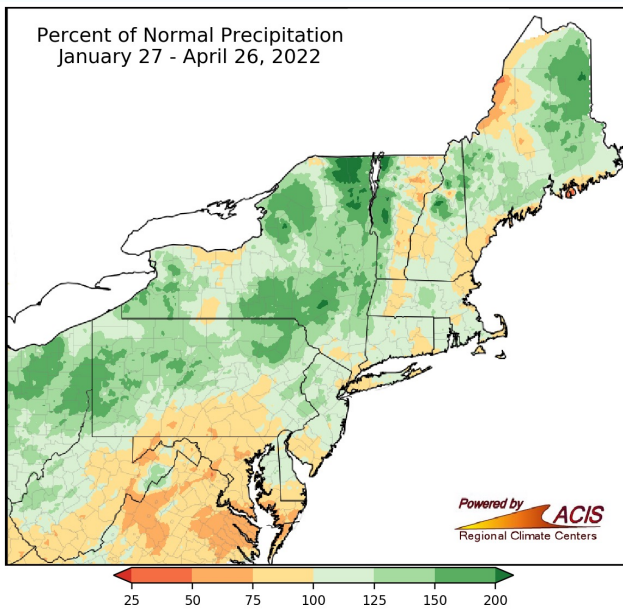
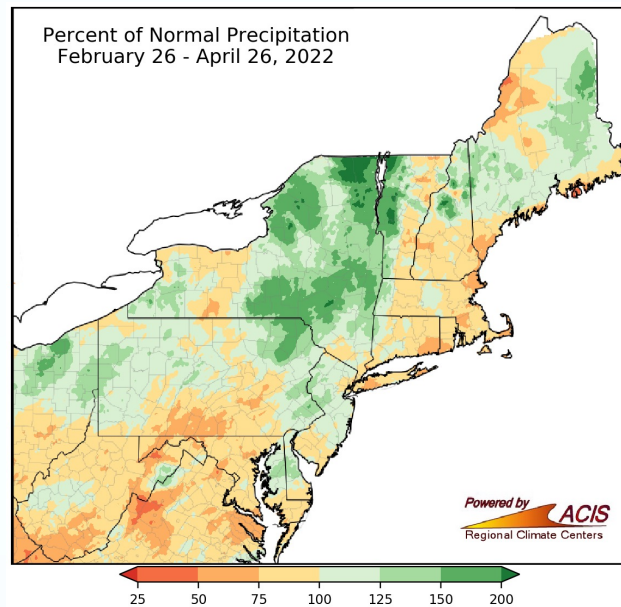
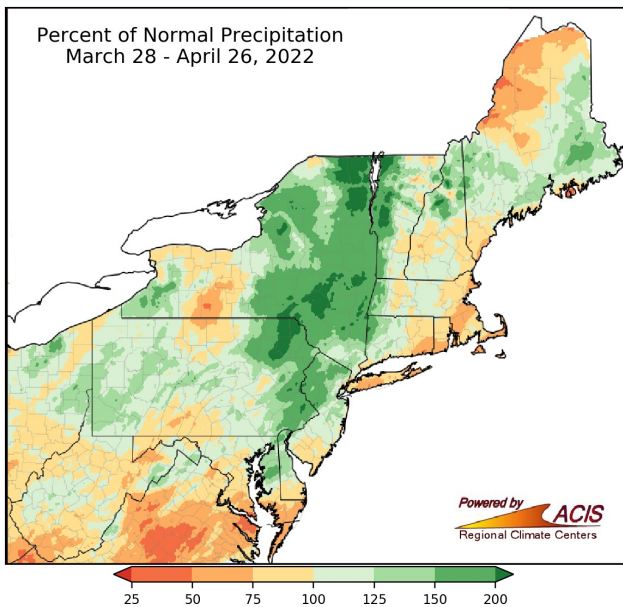
(Click to hide/show lines)

— BLUESTONE LAKE, WV:Precip Dprt — RANGELEY, ME:Precip Dprt — FIRST CONNECTICUT LAKE, NH:Precip Dprt
— Baltimore Area, MD (ThreadEx):Precip Dprt

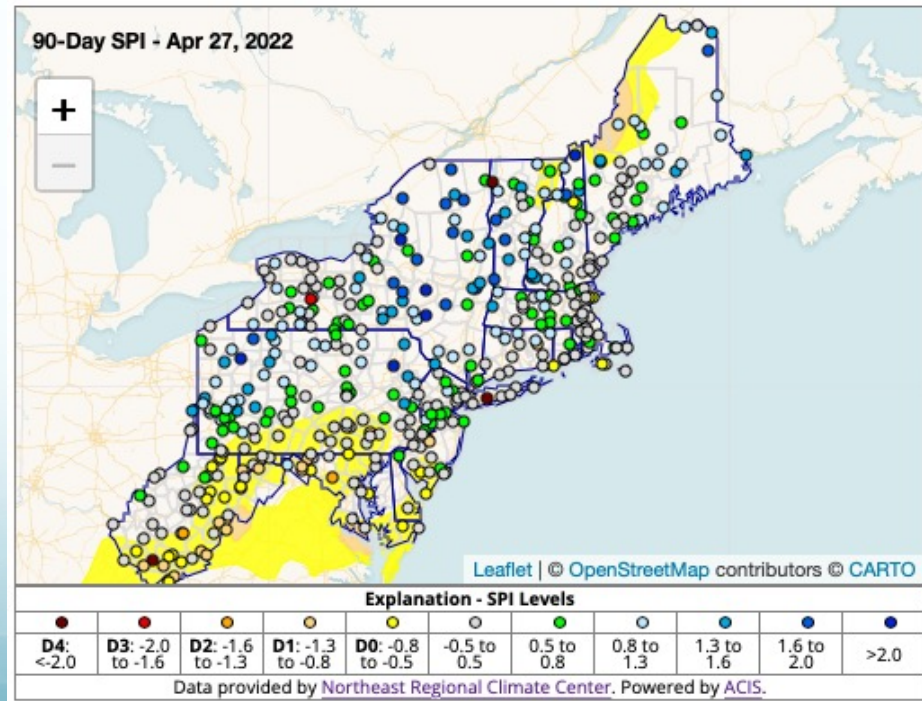
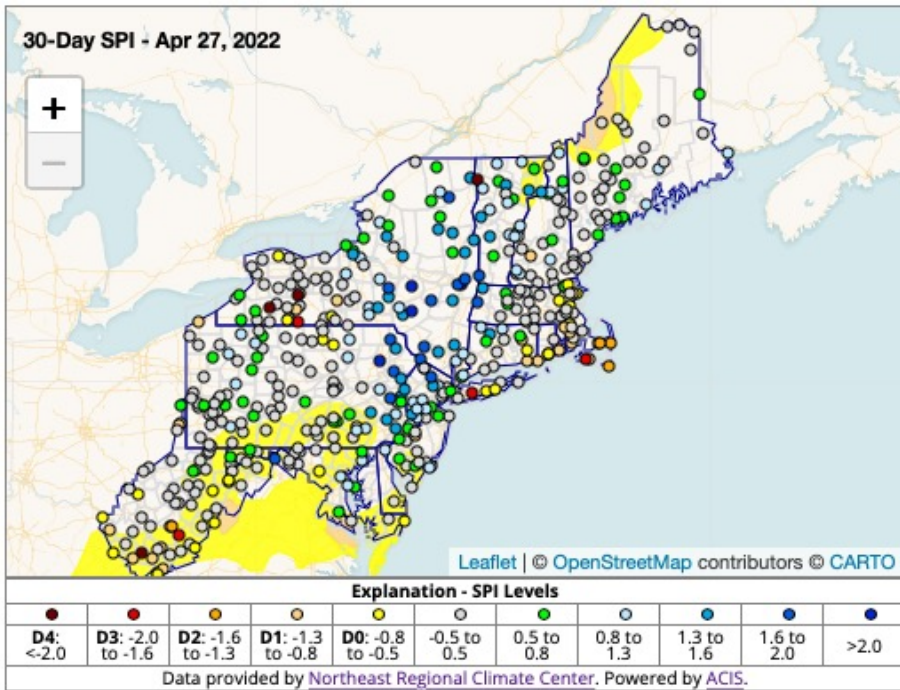
Powered by ACIS



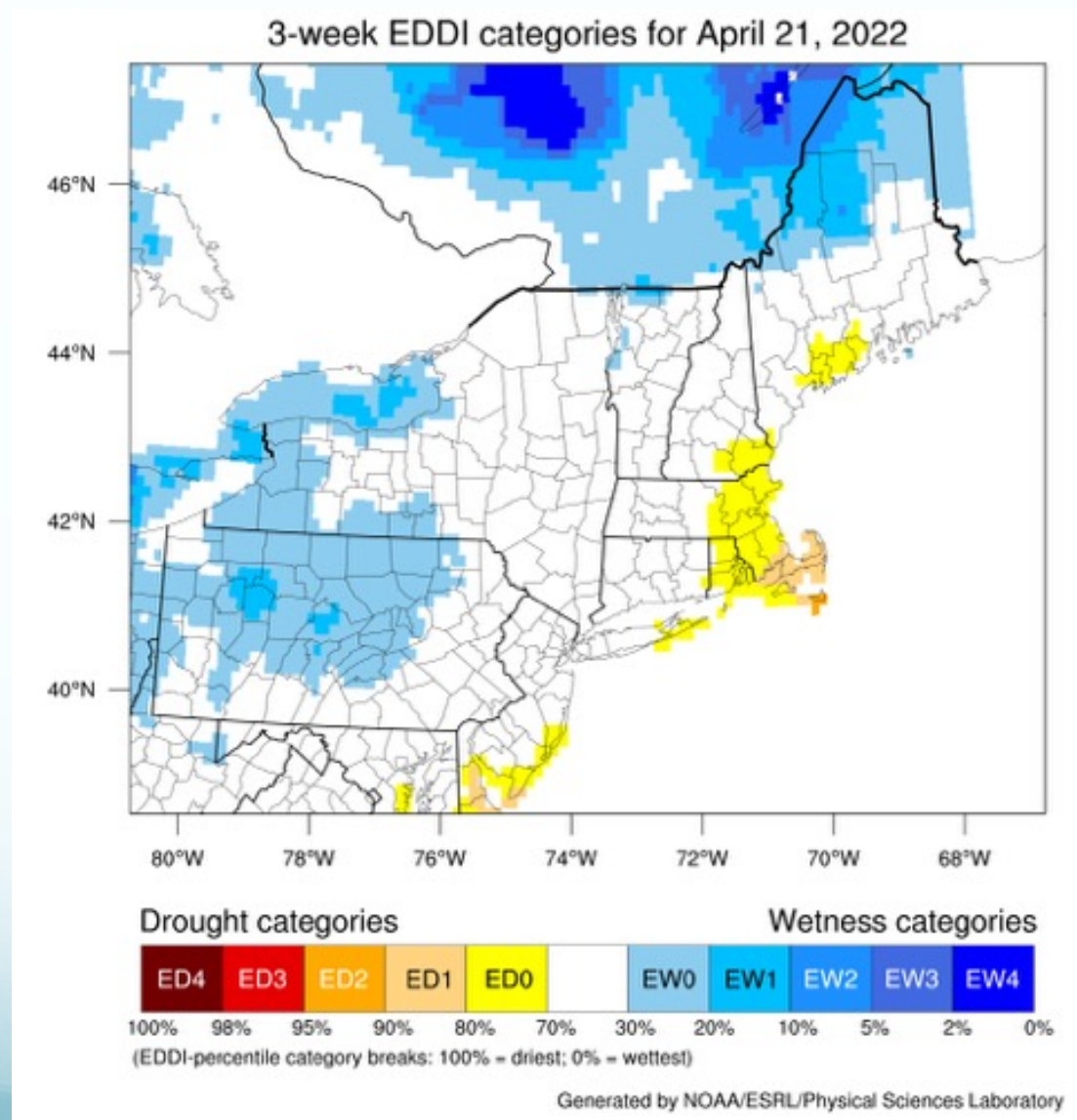
Precipitation



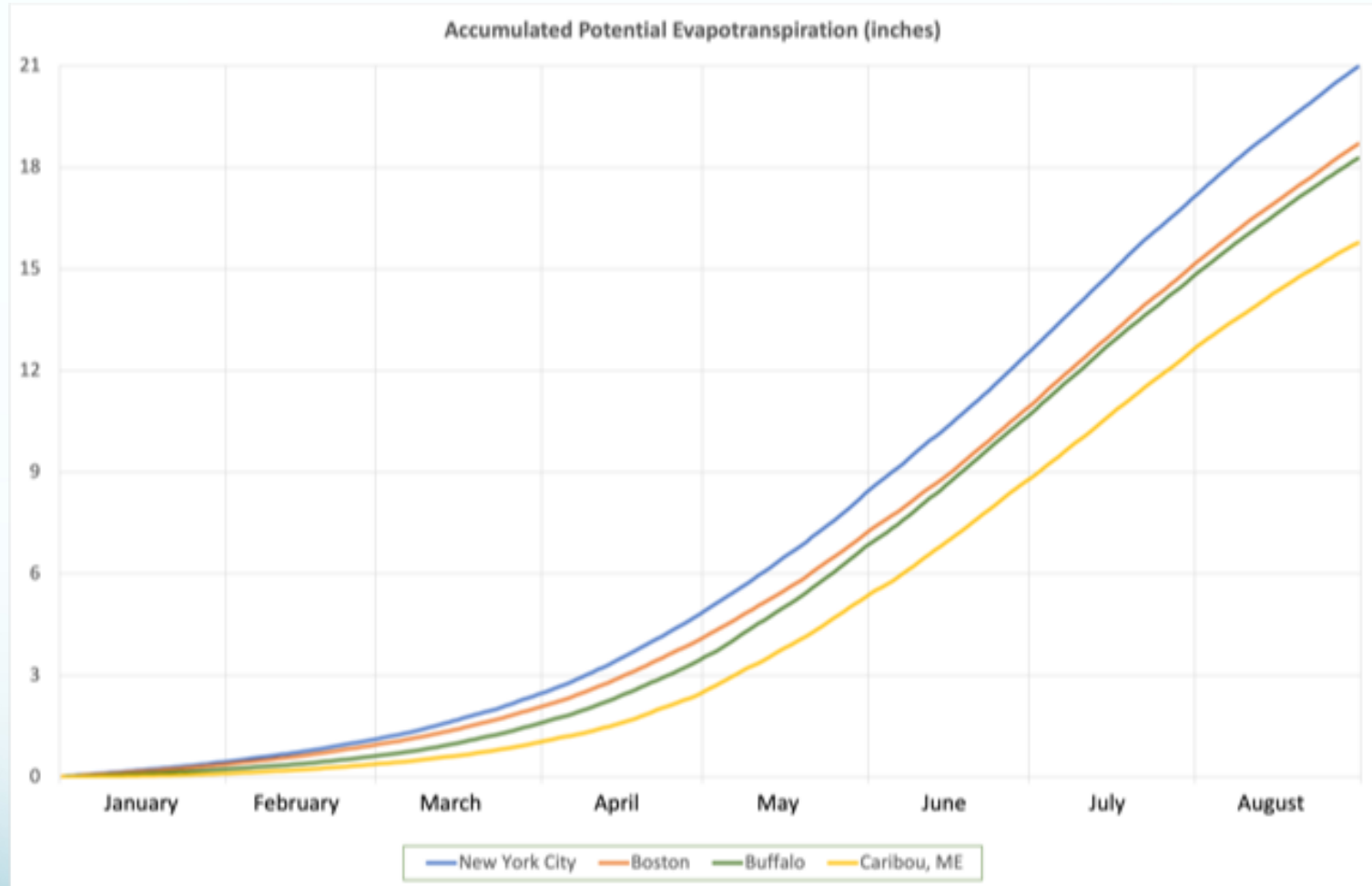
Standardized Precipitation Index



Evap. Demand Drought Index

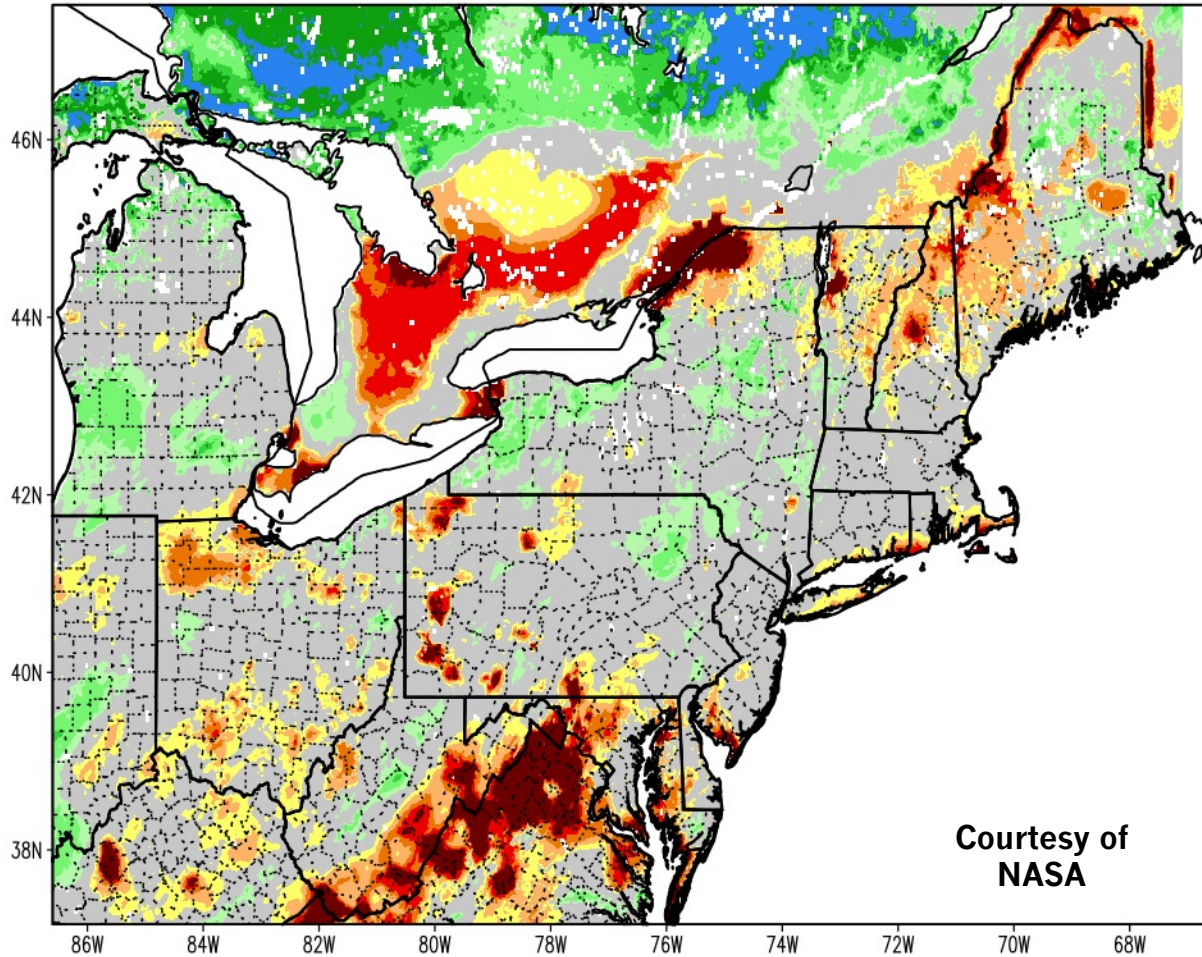


Evapotranspiration (ET)

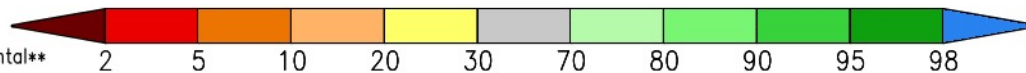


Soil Moisture

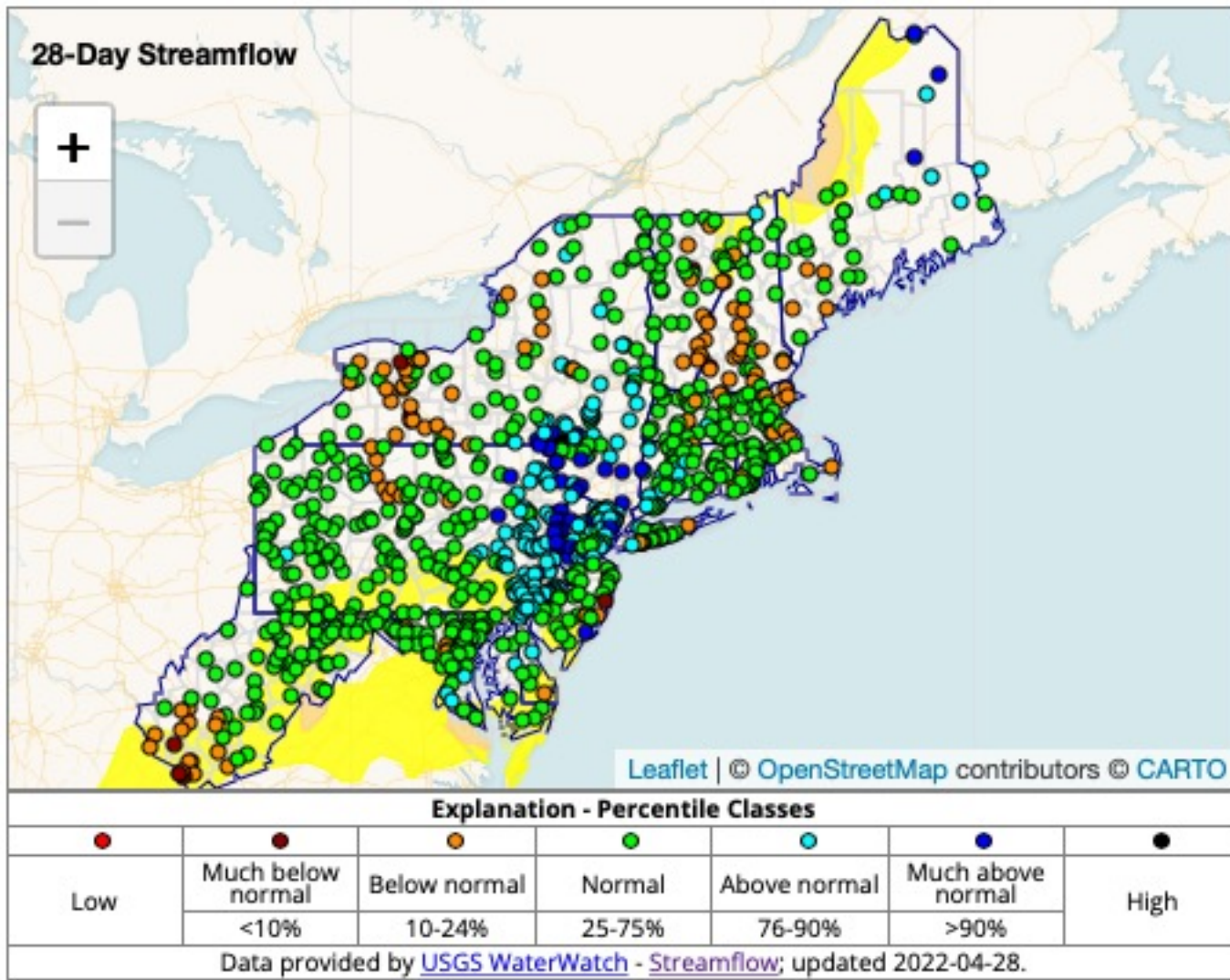
SPoRT-LIS 0-100 cm Soil Moisture percentile valid 27 Apr 2022



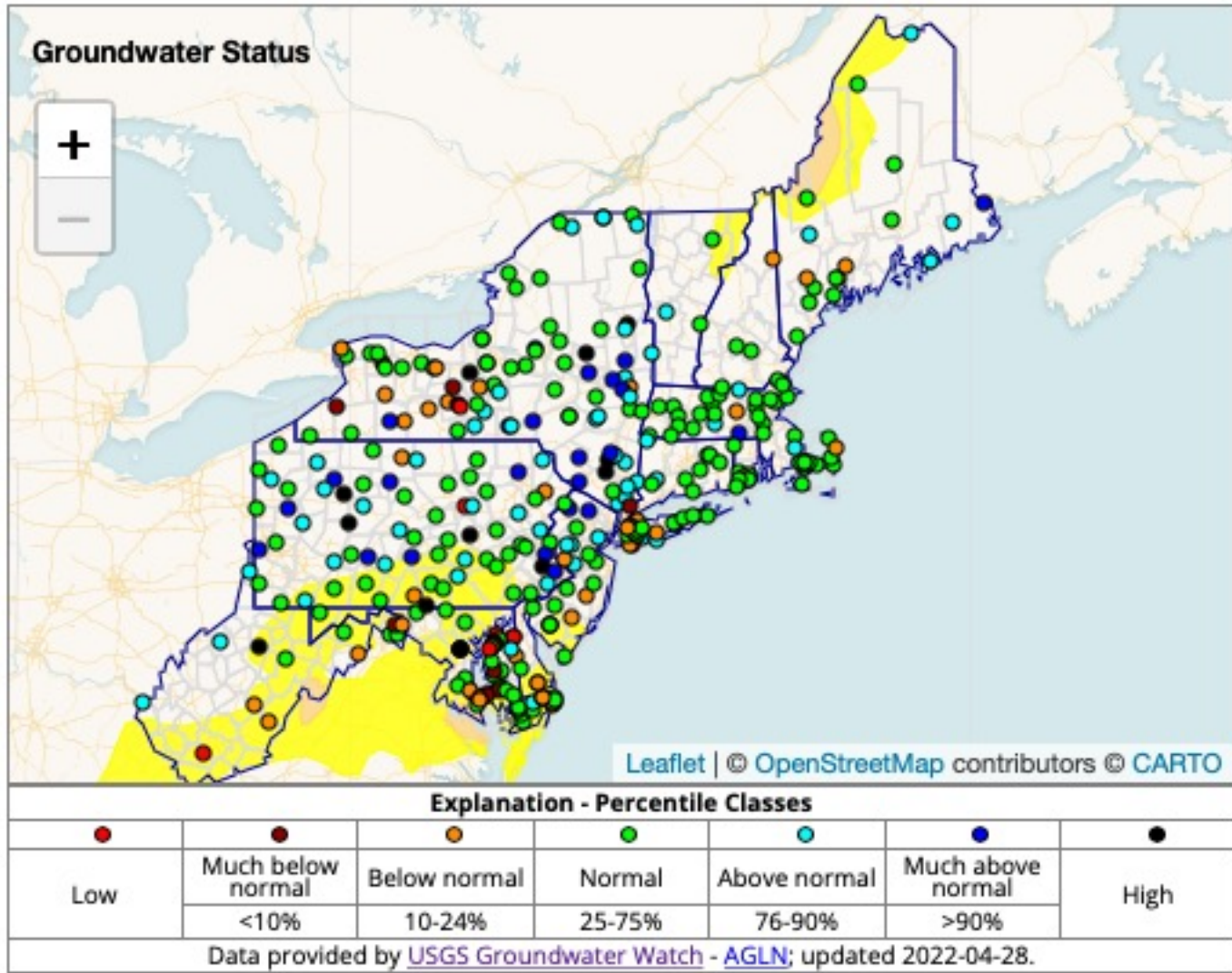
NOTE
Experimental



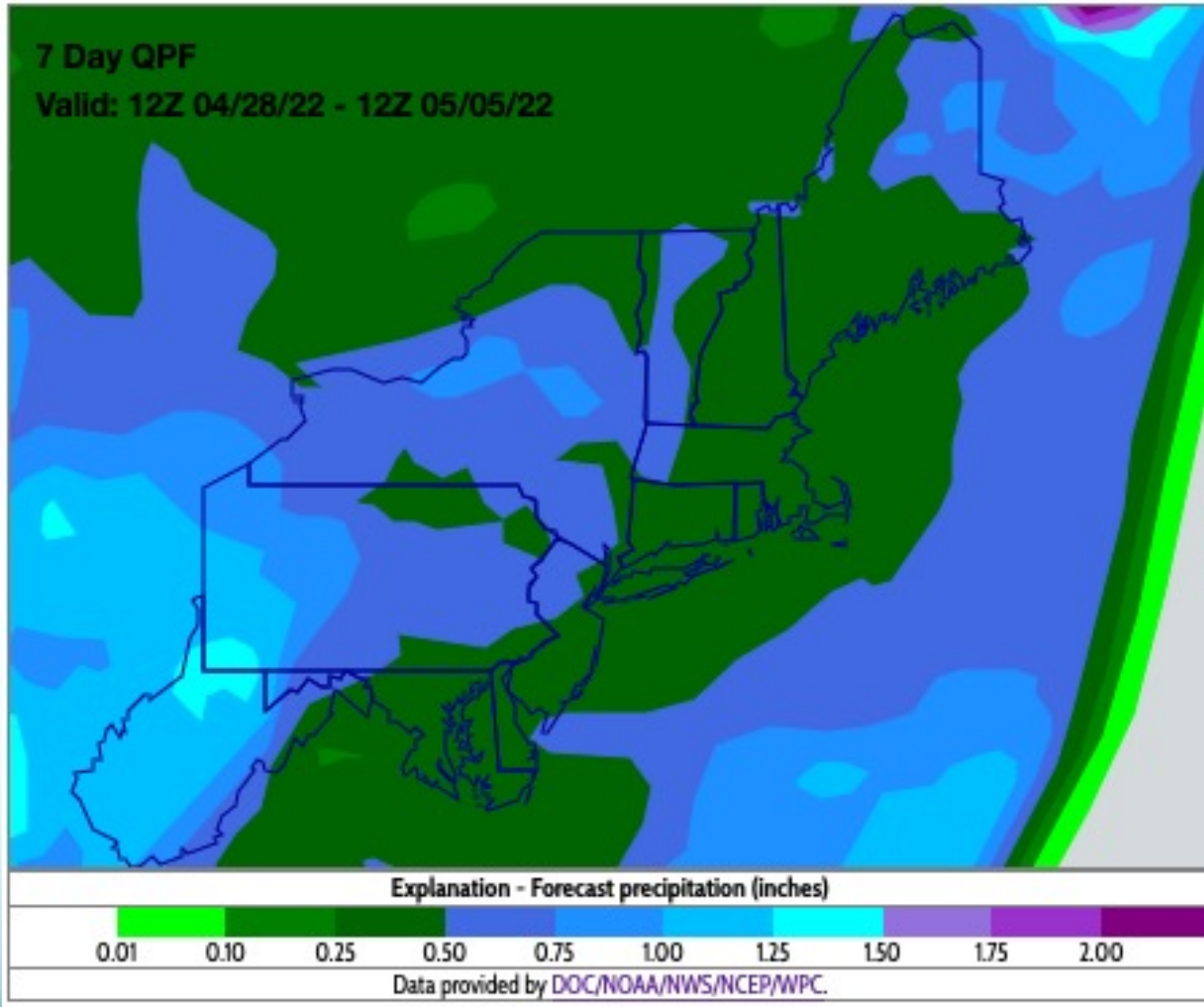
Streamflow



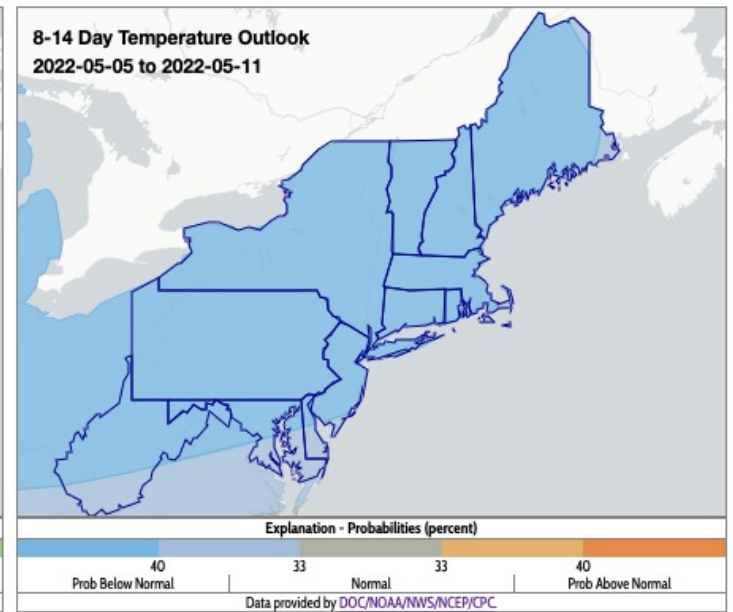
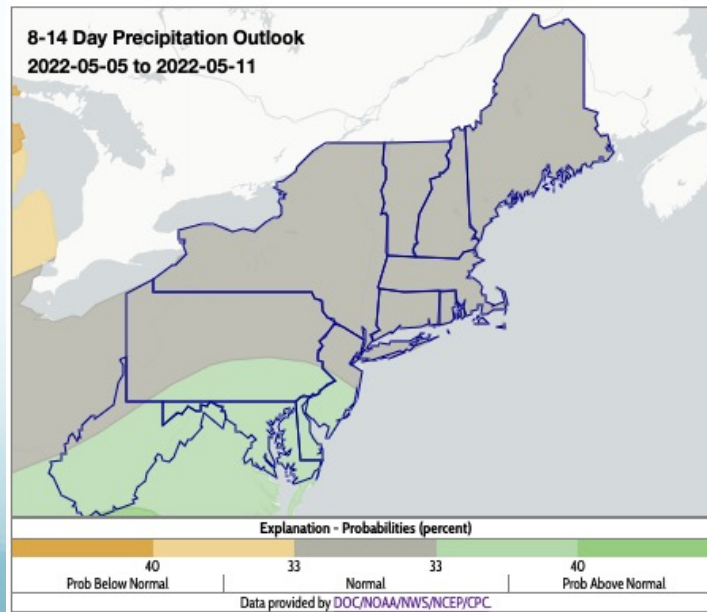
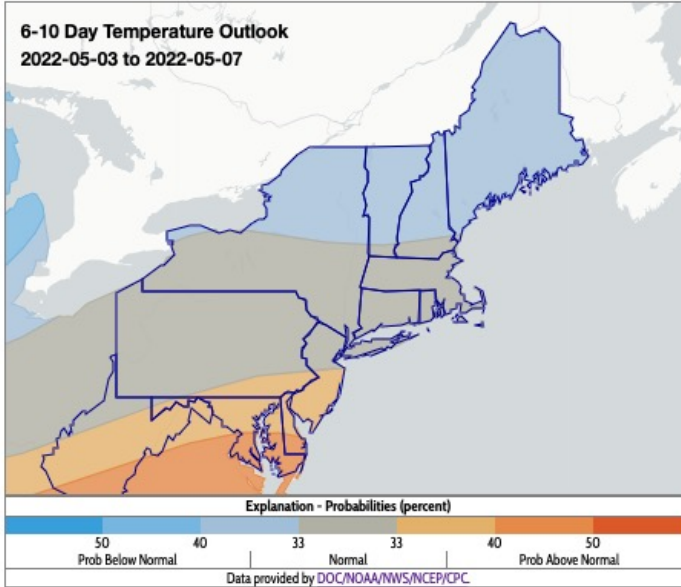
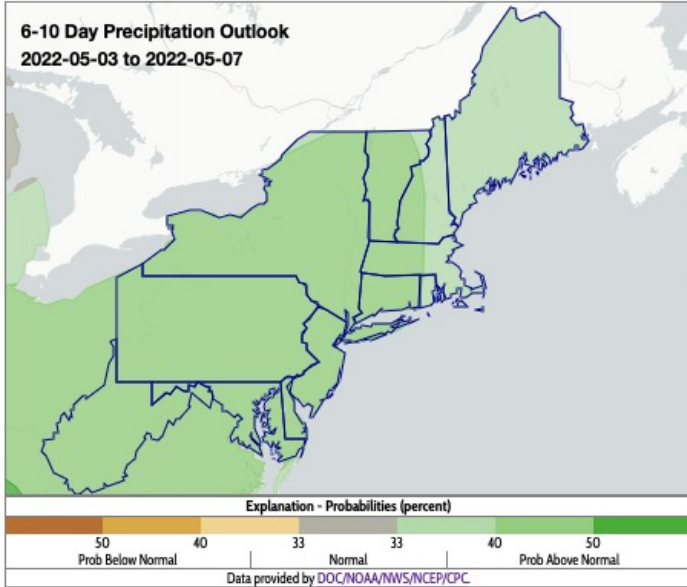
Groundwater



Precipitation Forecast

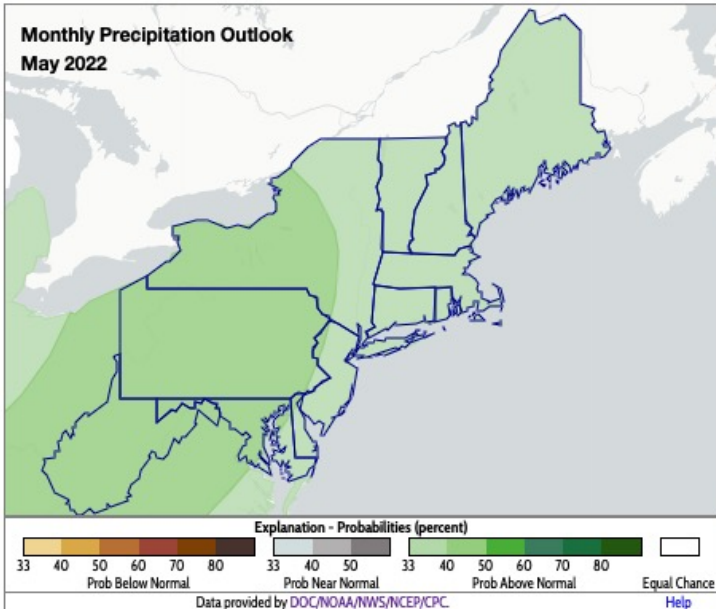


Short-term Outlooks

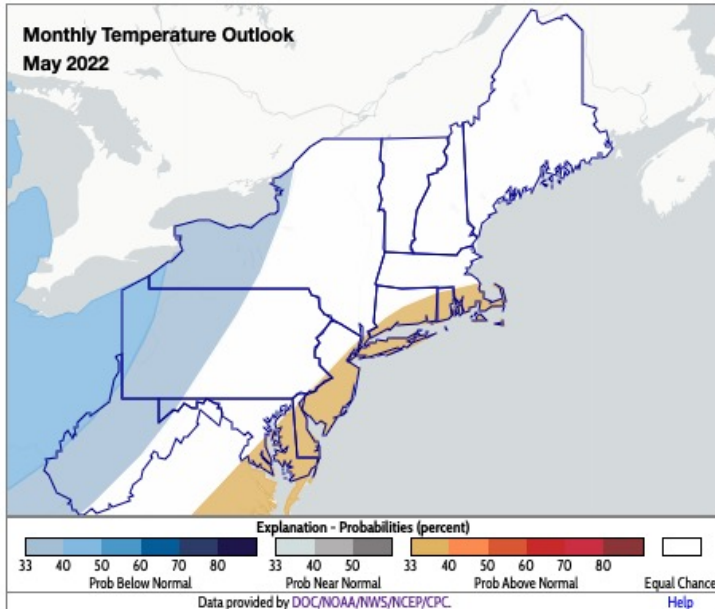


Monthly & 3-Month Outlooks

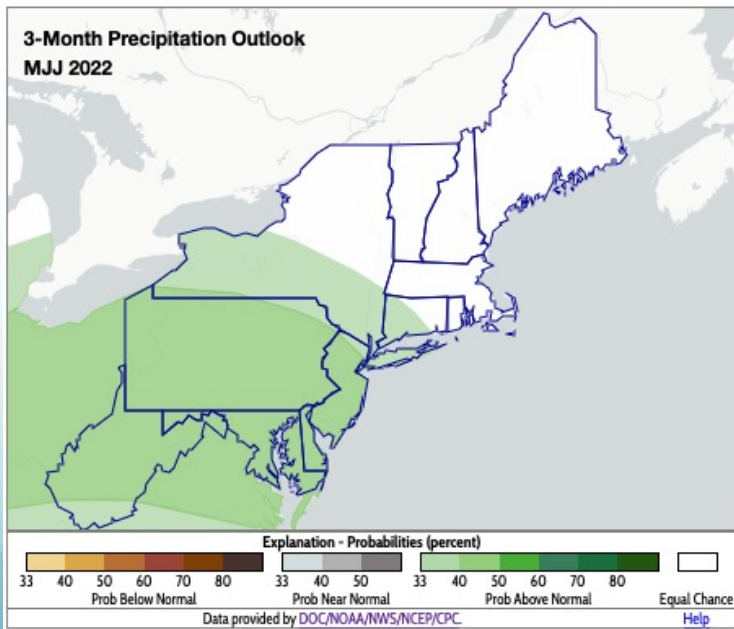
Monthly Precipitation Outlook
May 2022



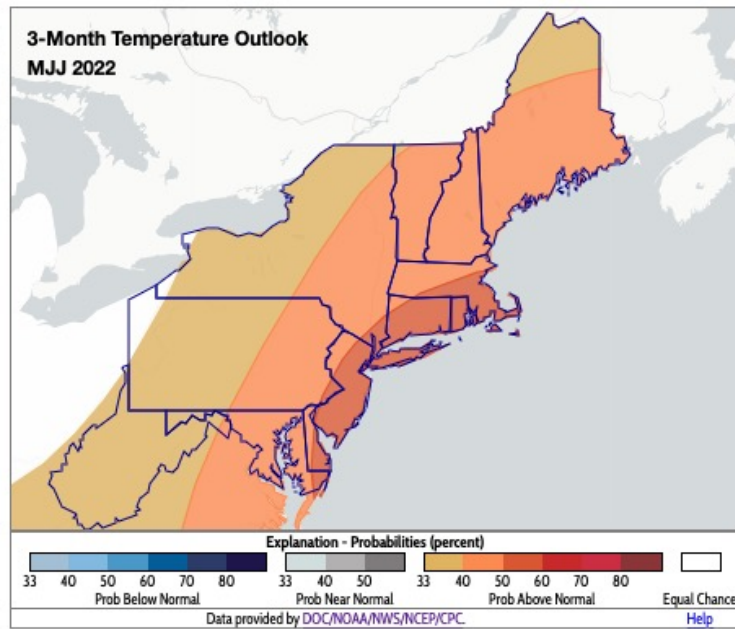
Monthly Temperature Outlook
May 2022



3-Month Precipitation Outlook
MJJ 2022



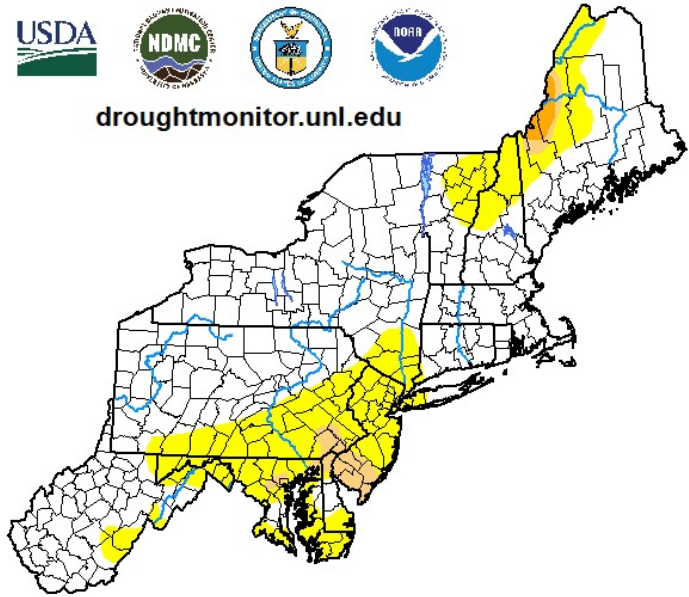
3-Month Temperature Outlook
MJJ 2022



Summary

April-to-date conditions:

- Most of the region had temperatures within 2 degrees of normal
- Near-normal to above-normal precipitation in many areas
- Above-normal snowfall for areas hit by nor'easter, below-normal in New England



Drought:

- Northern New England:
 - Severe drought removed in Maine; improvement of abnormally dry conditions
- Southern parts of the Northeast:
 - Improvement in PA & NJ; lingering abnormally dry conditions and small areas of moderate drought

Outlooks:

- Next seven days – cool temperatures; frontal system brings precipitation to southern areas over the weekend
- Short-term outlooks – near- or above-normal precipitation, range of temperatures changing to below-normal for the 8-14 day outlook
- Month/three-month outlooks call for above-normal precipitation and a range in temperatures for May and above-normal temps for MJJ.



Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Thursday, May 26 at 9:30am
 - Heat, health, and drought
- Thursday, June 30 at 9:30am
 - Ocean Warming
- Thursday, July 28 at 9:30am
 - Climate Migration
- Tuesday, August 30 at 9:30am
 - Atlantic Hurricane Season

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