

March Conditions & Northeast DEWS Discussion

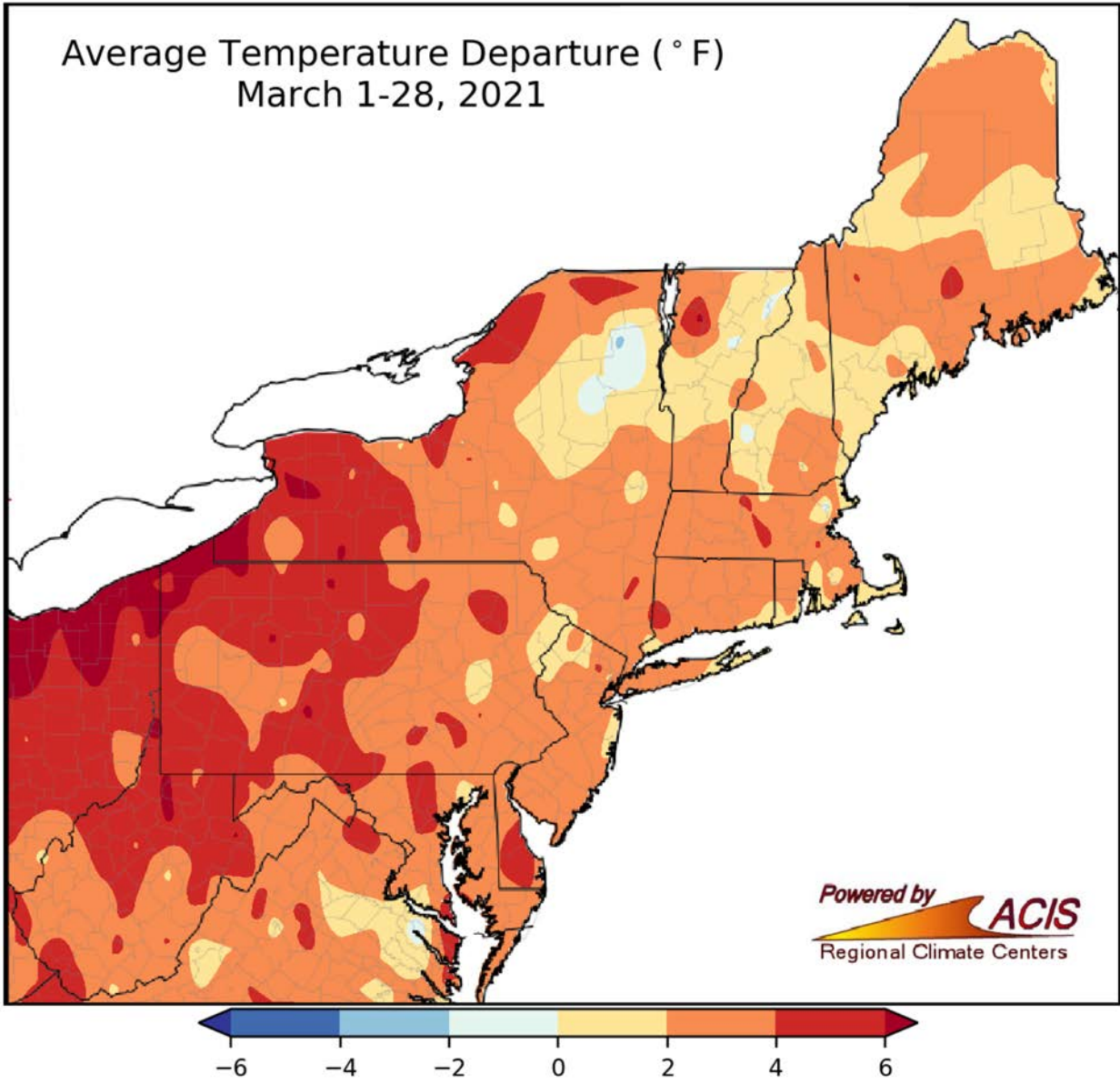
By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



Northeast Regional
Climate Center



March Temperatures



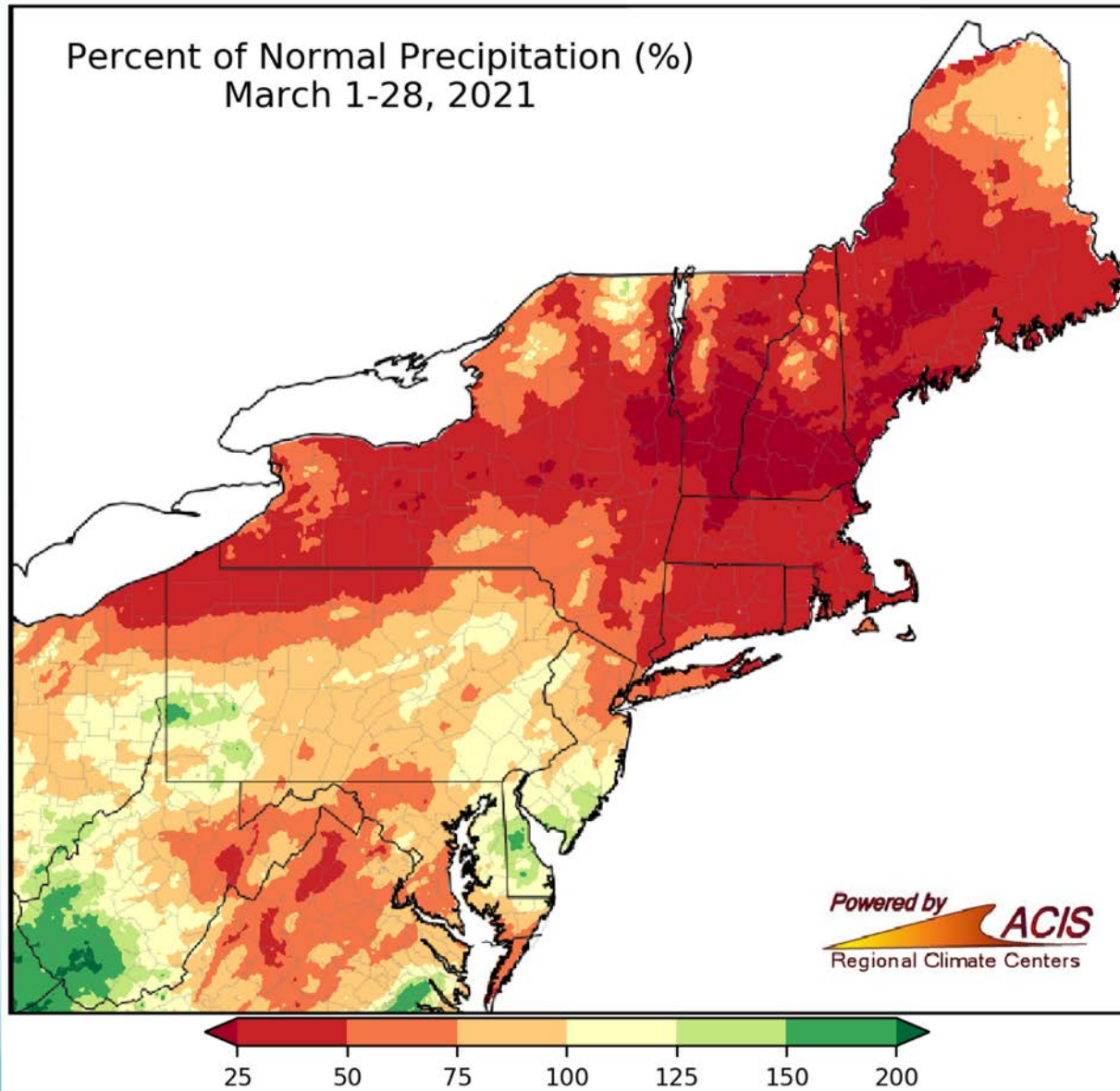
From 2°F below normal to more than 6°F above normal

March Temperatures

<i>March 26 Maximum Temperature Records (°F)</i>		
Station	New	March Rank (warmest)
Wilmington, DE	84	top 10
Newark, NJ	84	top 10
Atlantic City, NJ	83	top 10
Philadelphia, PA	83	top 10
Central Park, NY	82	top 10
LaGuardia Airport, NY	82	5th
Kennedy Airport, NY	81	3rd
Bridgeport, CT	79	3rd
Islip, NY	78	4th

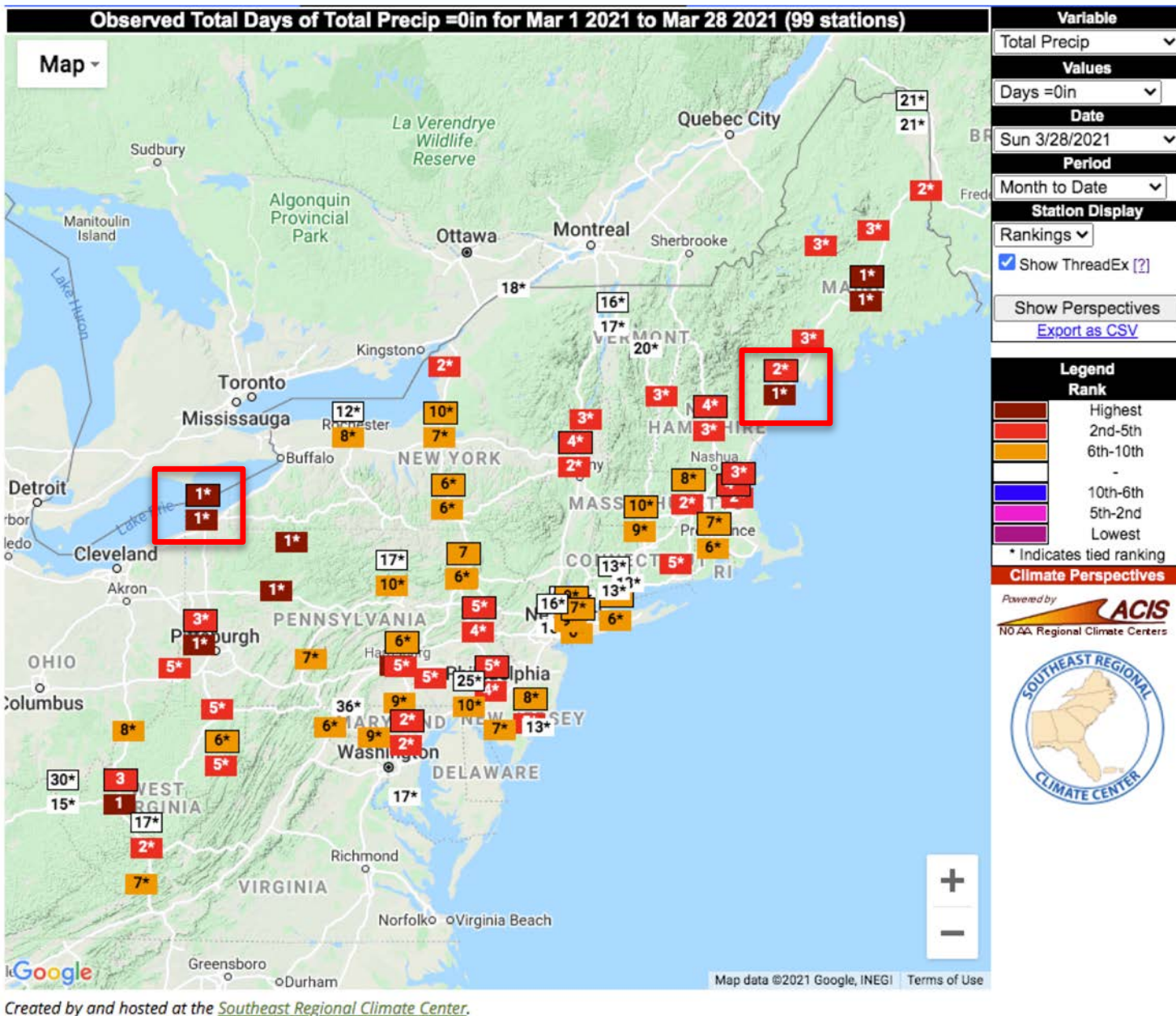


March Precipitation

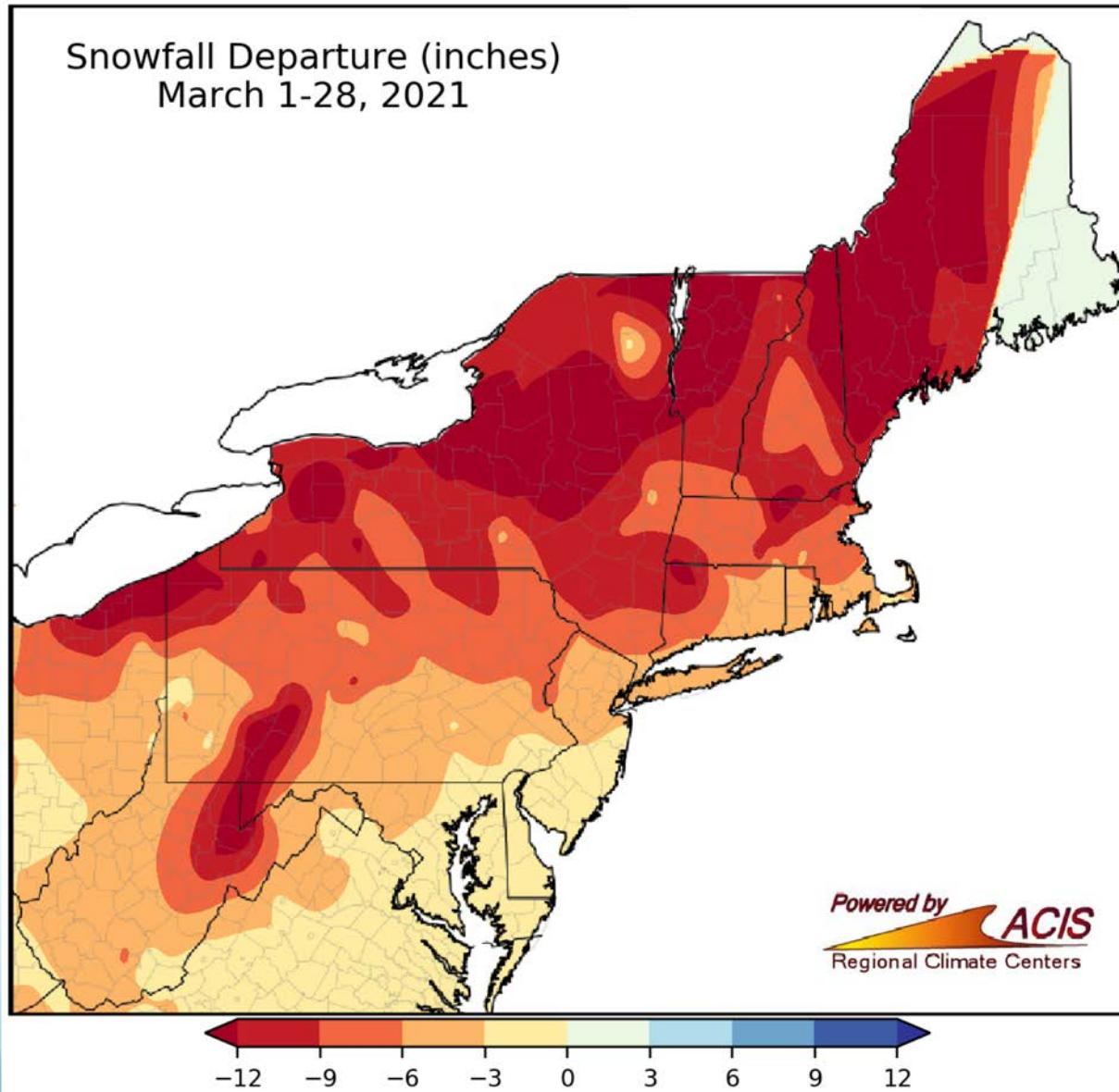


From less than 25% of normal to 200% of normal

March Precipitation



March Snowfall



From more than 12" below normal to near normal

March Snowfall

Time Series Summary for Bridgeport Area, CT (ThreadEx)

Click column heading to sort ascending, click again to sort descending.

Rank	Ending Date	Total Snowfall Mar 1 to Mar 28	Missing Count
1	2021-03-28	0.0	0
2	2020-03-28	T	0
-	2012-03-28	T	0
-	1995-03-28	T	
-	1986-03-28	T	
-	1983-03-28	T	
-	1979-03-28	T	
-	1973-03-28	T	
-	1954-03-28	T	

Time Series Summary for Beckley Area, WV (ThreadEx)

Click column heading to sort ascending, click again to sort descending.

Rank	Ending Date	Total Snowfall Mar 1 to Mar 28	Missing Count
1	2021-03-28	0.0	0
2	2008-03-28	T	0
-	1964-03-28	T	0
-	1955-03-28	T	0
-	1948-03-28	T	0
-	1939-03-28	T	0
-	1938-03-28	T	0
-	1927-03-28	T	0
-	1925-03-28		
-	1918-03-28		

Time Series Summary for Elkins Area, WV (ThreadEx)

Click column heading to sort ascending, click again to sort descending.

Rank	Ending Date	Total Snowfall Mar 1 to Mar 28	Missing Count
1	2021-03-28	0.0	0
2	1946-03-28	T	0
-	1927-03-28	T	0
-	1921-03-28	T	0
-	1918-03-28	T	0
6	1948-03-28	0.1	0
7	1985-03-28	0.5	0
8	1910-03-28	0.6	0
-	1903-03-28	0.6	0





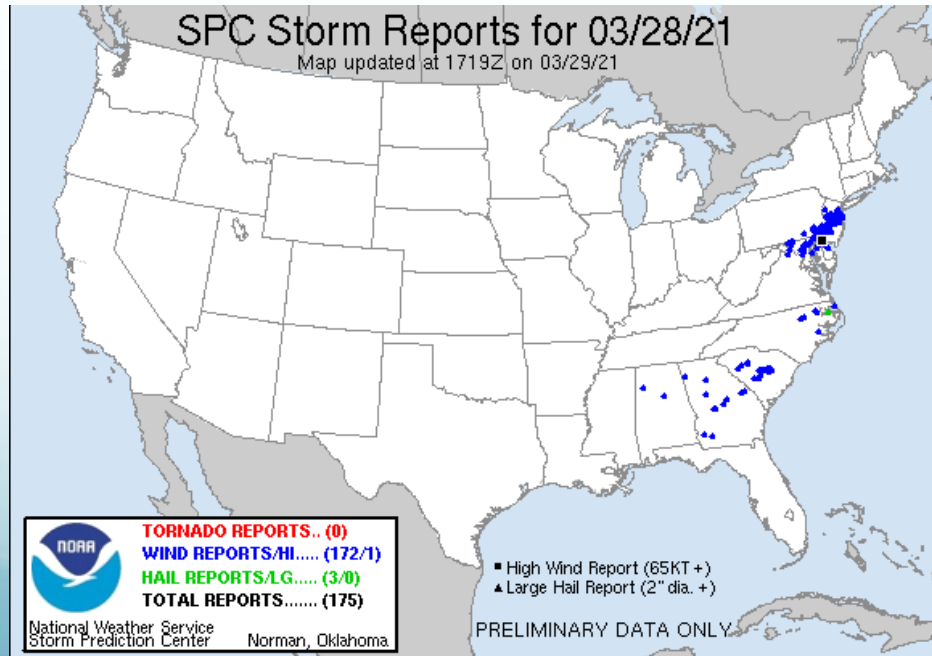
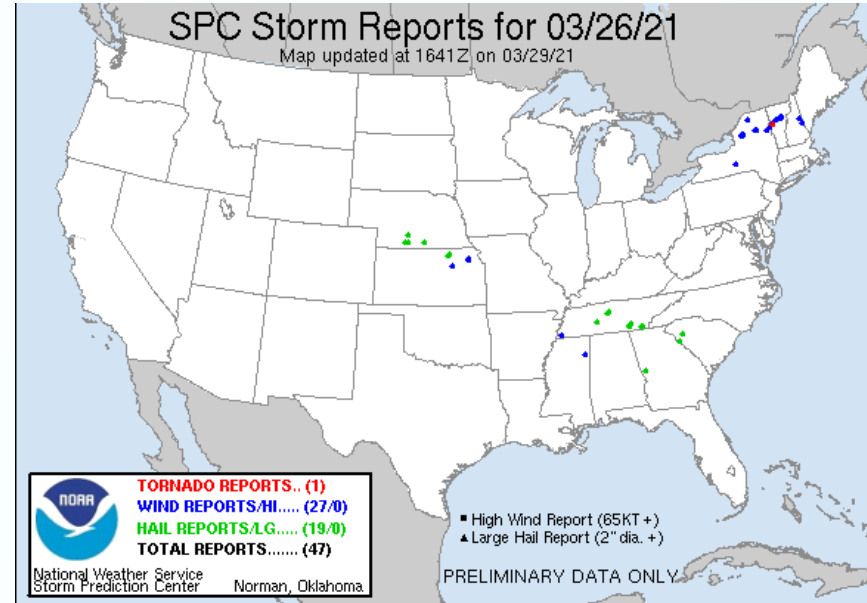
Andy Chilian @ChiliWX · Mar 18

Check out the HAIL that fell in Lenore, WV (Mingo County) this afternoon! @NWSCharlestonWV #wvwx

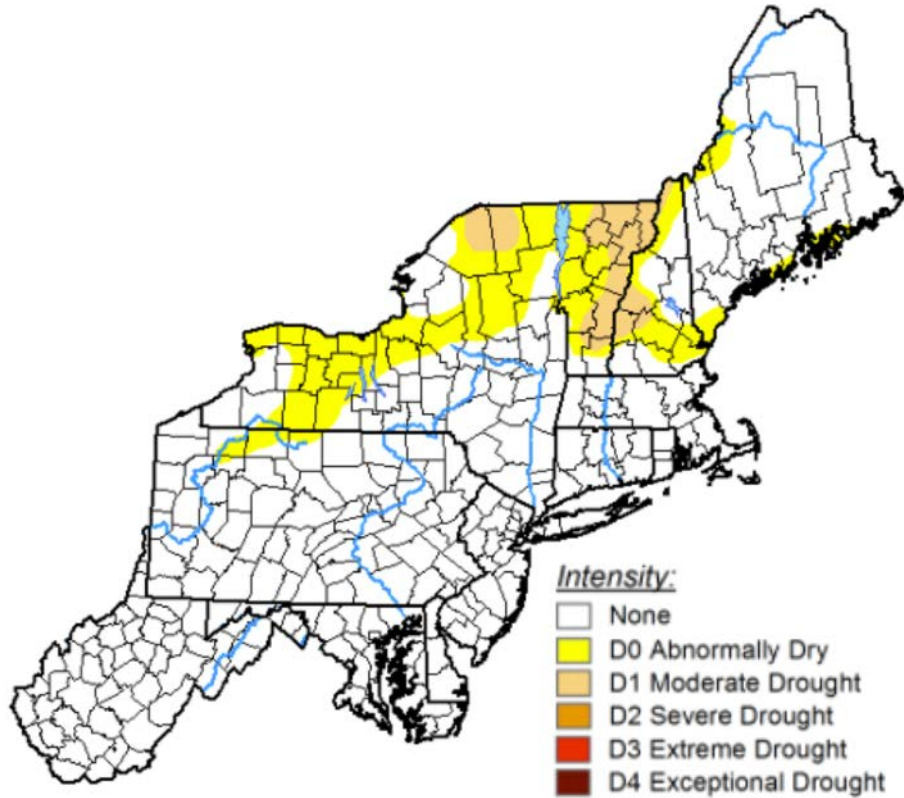
Photo credit: Myran and Regina Starr (left), Ernie & Renee Ramey (right)



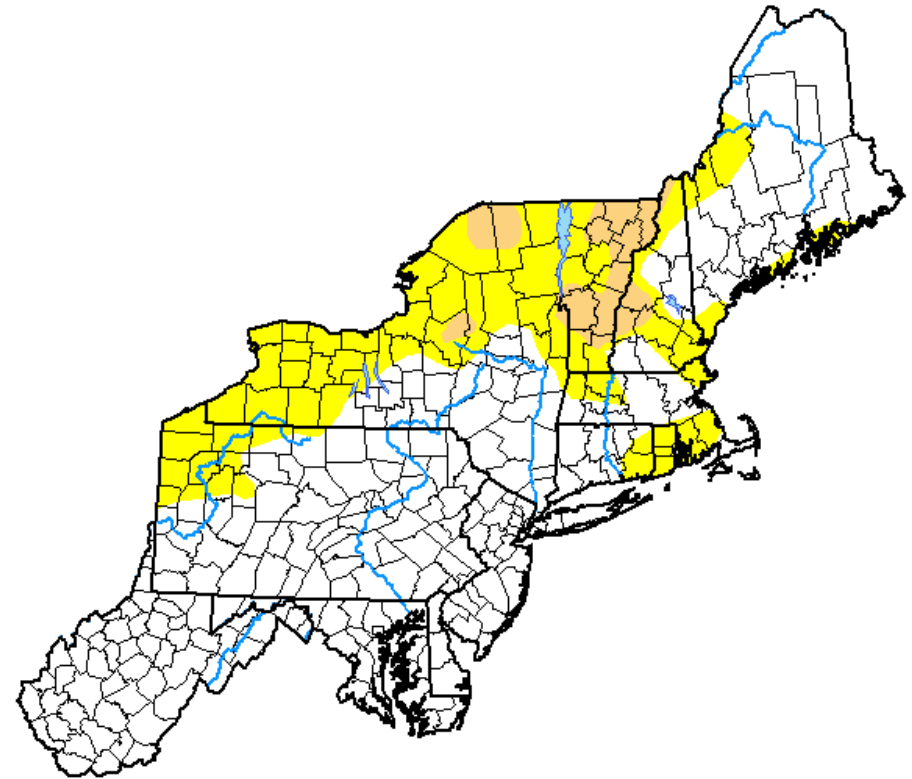
March Severe



Drought Monitor



February 23:
4% of the region was in a drought
14% was abnormally dry



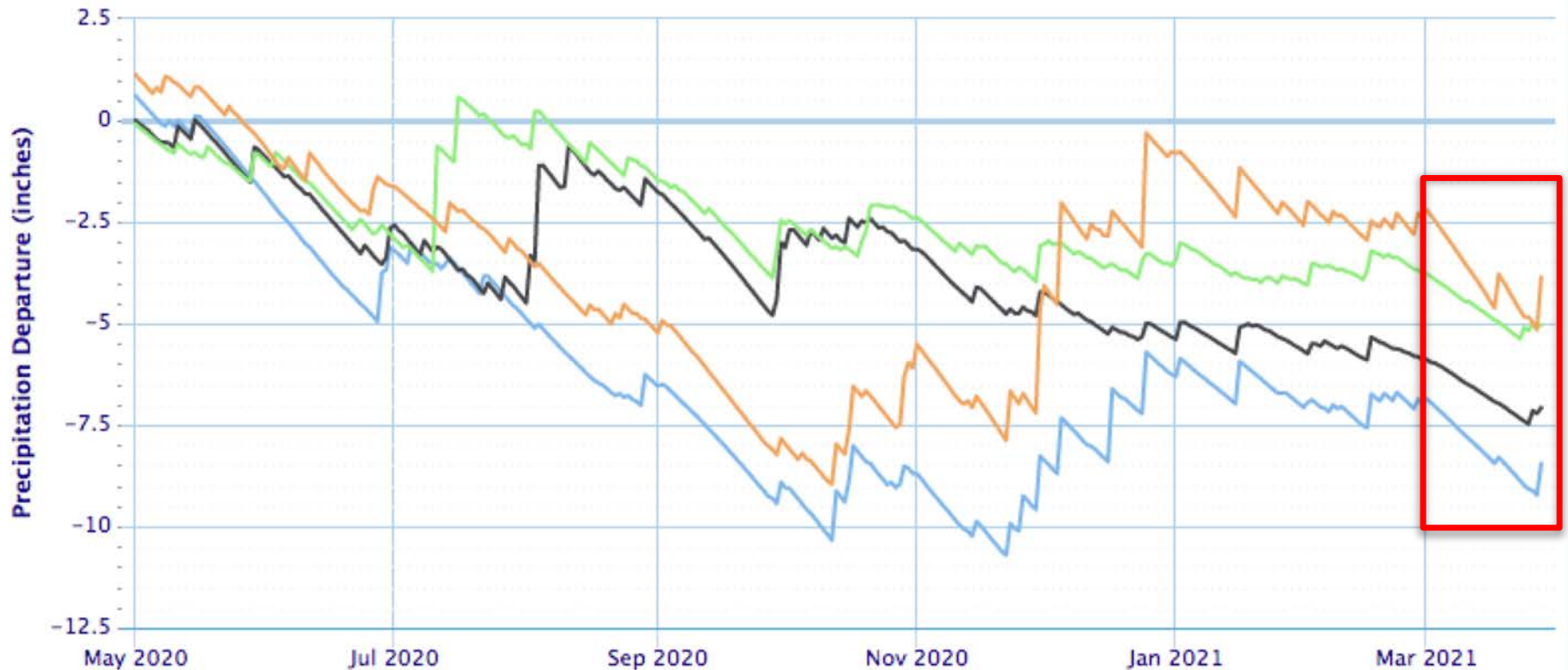
March 23:
5% of the region was in a drought
25% was abnormally dry



Precipitation

Accumulated Precipitation Departure from Normal

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

— Concord Area, NH (ThreadEx):Precip Dprt

— Rochester Area, NY (ThreadEx):Precip Dprt

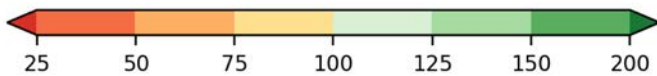
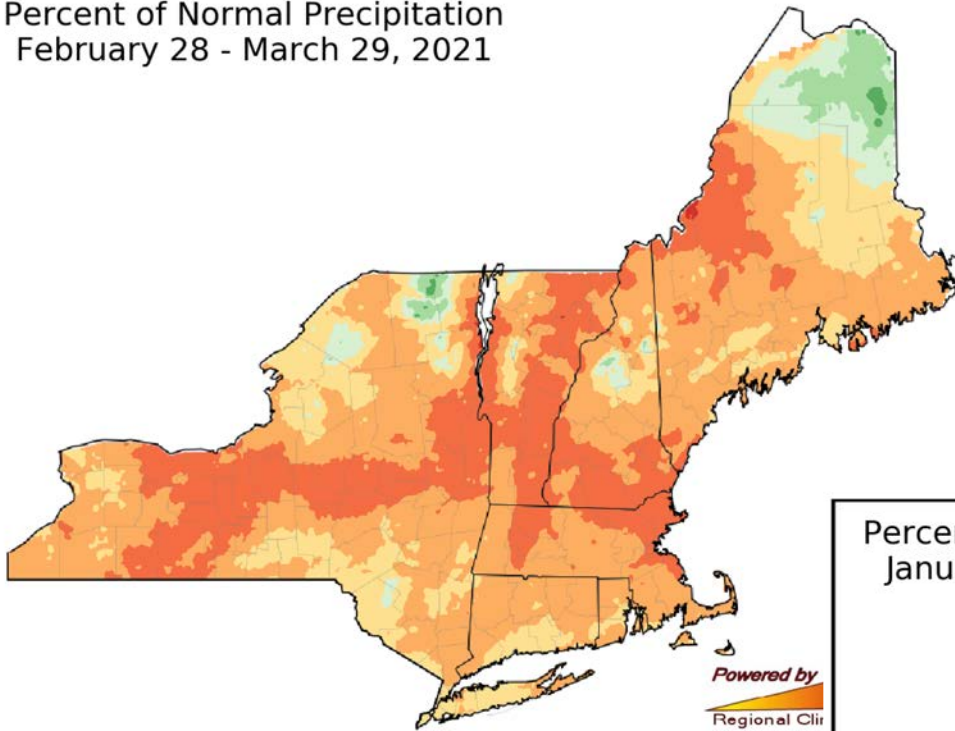
— Burlington Area, VT (ThreadEx):Precip Dprt

— Providence Area, RI (ThreadEx):Precip Dprt

Powered by ACIS

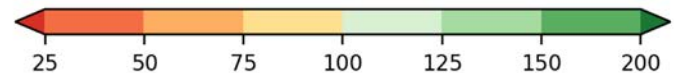
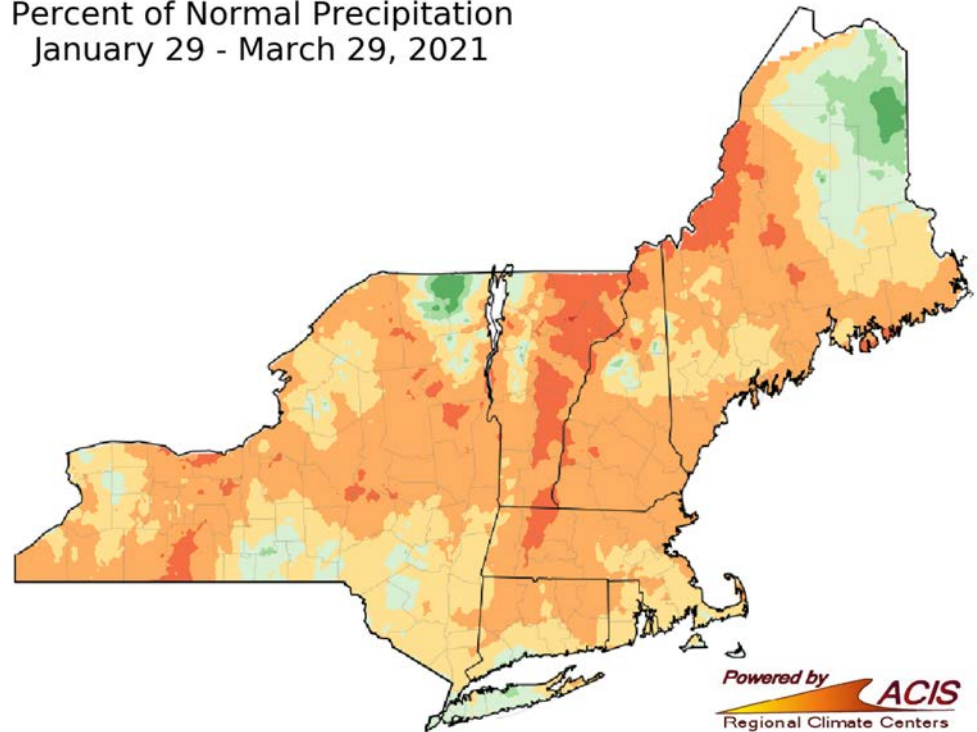


Percent of Normal Precipitation
February 28 - March 29, 2021

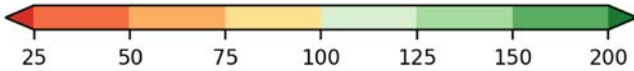
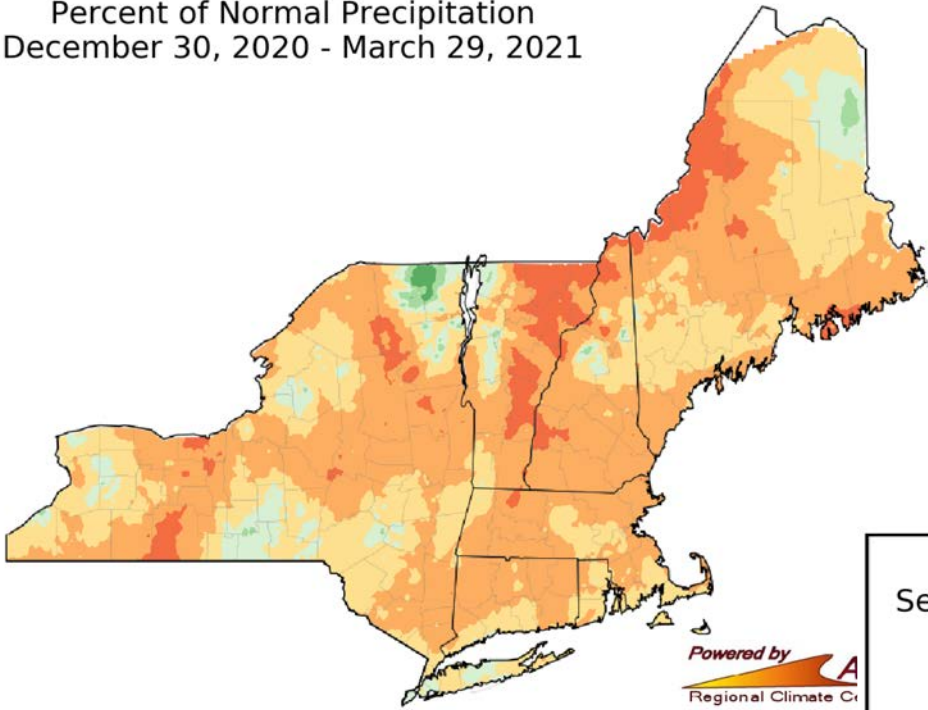


Precipitation

Percent of Normal Precipitation
January 29 - March 29, 2021

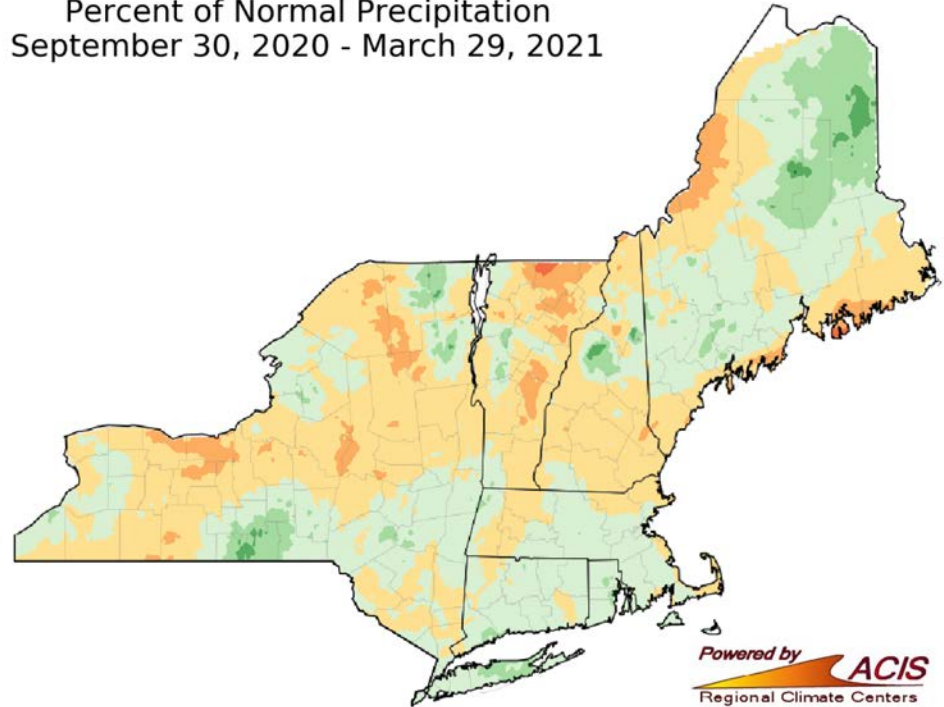


Percent of Normal Precipitation
December 30, 2020 - March 29, 2021

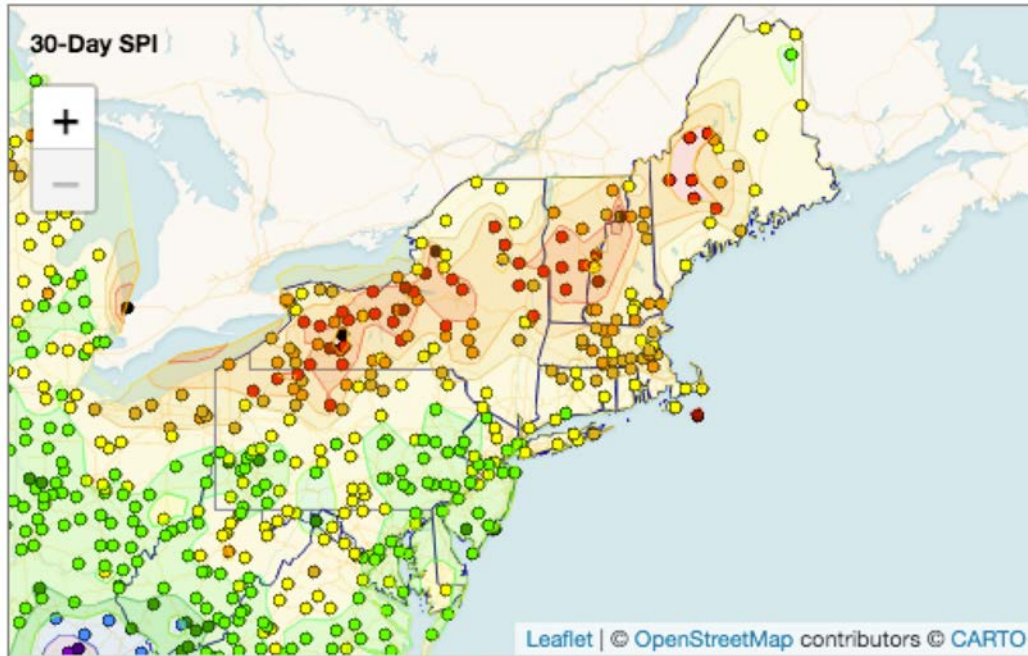


Precipitation

Percent of Normal Precipitation
September 30, 2020 - March 29, 2021



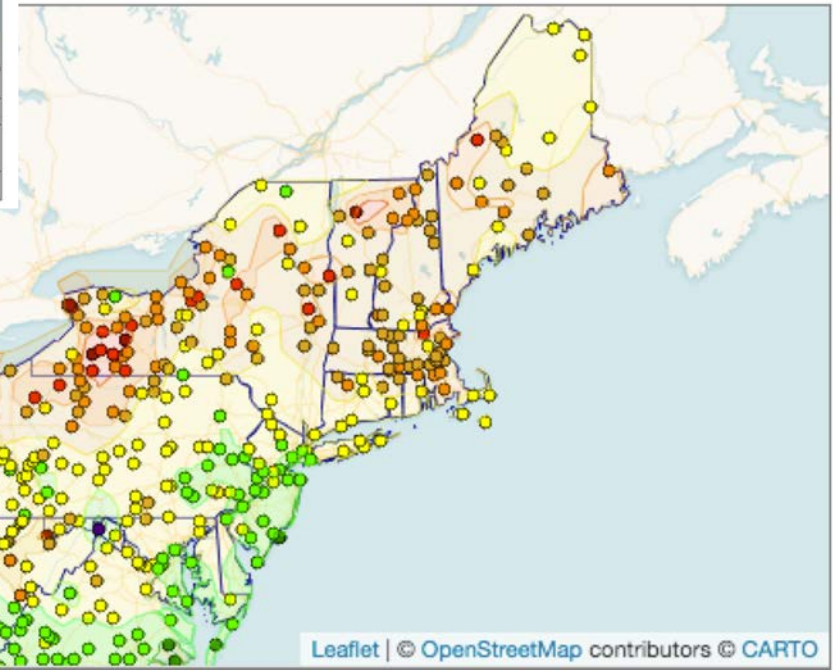
Standardized Precipitation Index



Explanation - SPI Levels

●	●	●	●	●	●	●	●	●	●	●	●
<-3.0	-3.0 to -2.5	-2.5 to -2.0	-2.0 to -1.5	-1.5 to -1.0	-1.0 to 0.0	0.0 to 1.0	1.0 to 1.5	1.5 to 2.0	2.0 to 2.5	2.5 to 3.0	>3.0

Data provided by [High Plains Regional Climate Center](#); updated 2021-03-29.



Explanation - SPI Levels

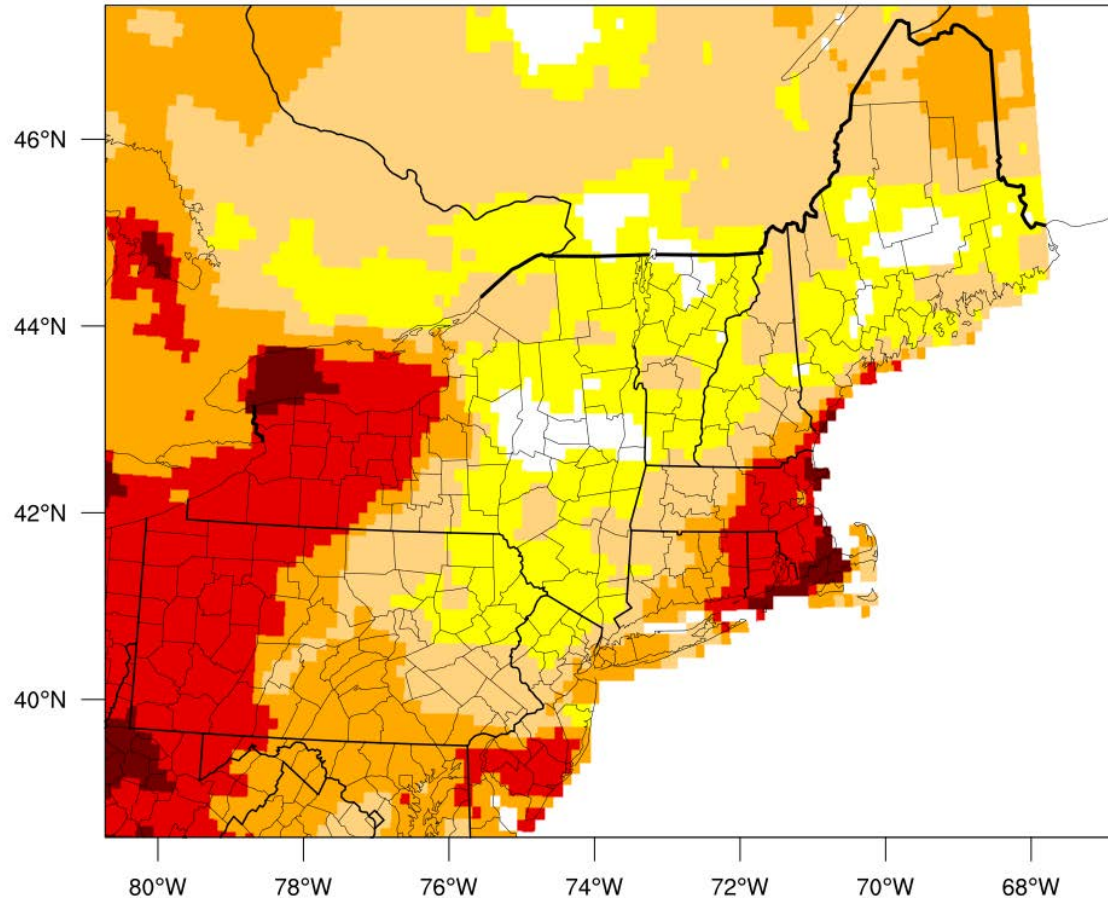
●	●	●	●	●	●	●	●	●	●	●	●
<-3.0	-3.0 to -2.5	-2.5 to -2.0	-2.0 to -1.5	-1.5 to -1.0	-1.0 to 0.0	0.0 to 1.0	1.0 to 1.5	1.5 to 2.0	2.0 to 2.5	2.5 to 3.0	>3.0

Data provided by [High Plains Regional Climate Center](#); updated 2021-03-29.



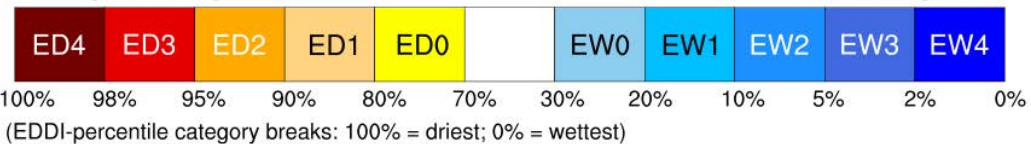
Evap. Demand Drought Index

3-week EDDI categories for March 23, 2021



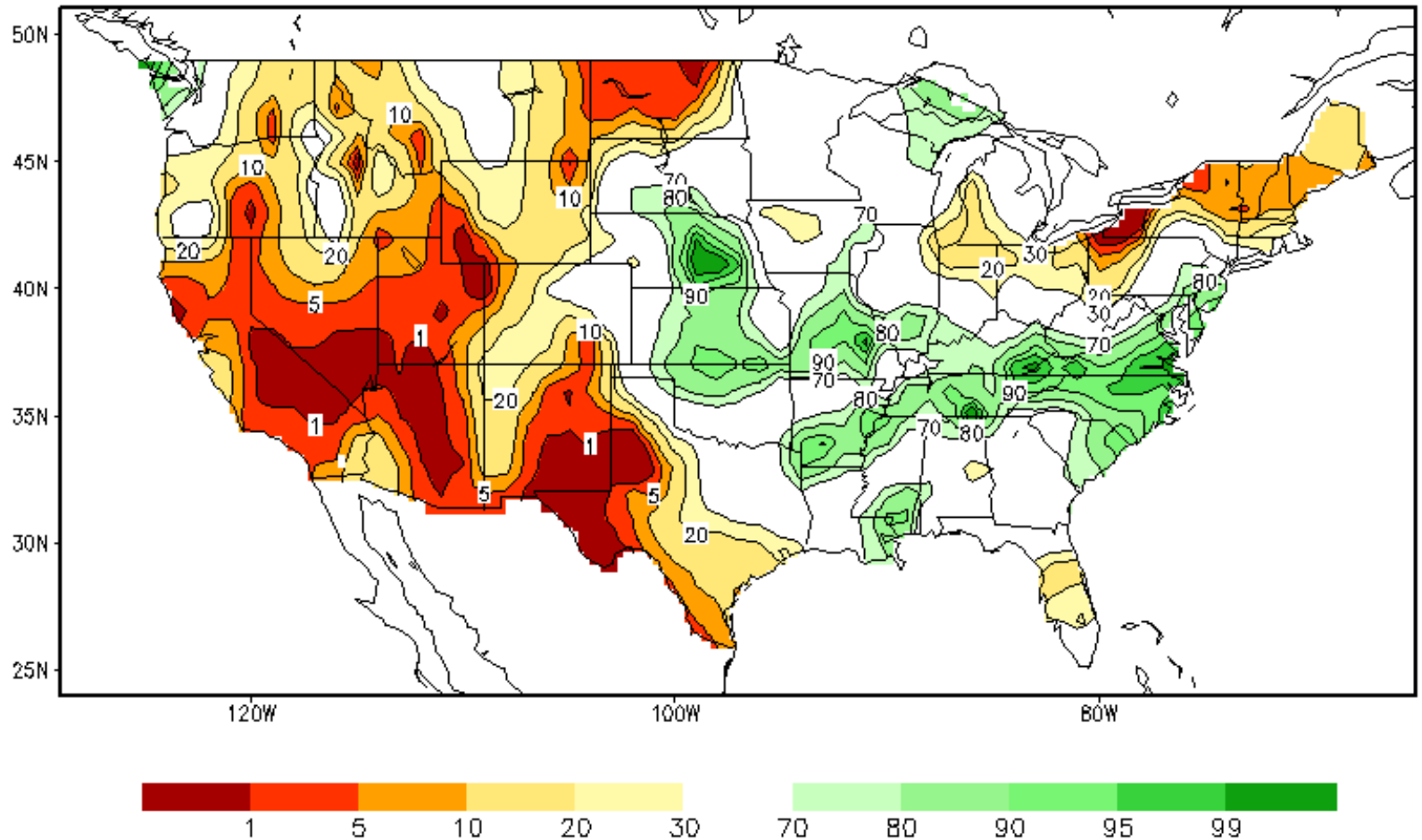
Drought categories

Wetness categories



Soil Moisture

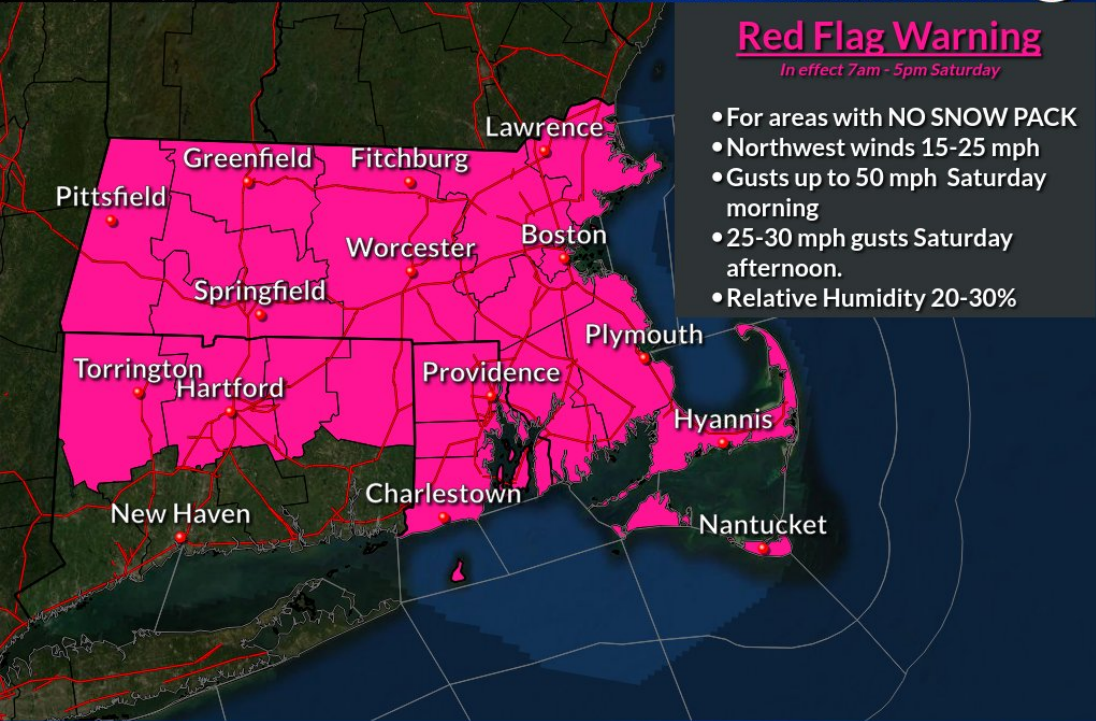
Calculated Soil Moisture Ranking Percentile
MAR 28, 2021



High Fire Danger Saturday

Fires May Spread Rapidly Over Areas With No Snow Pack. Outdoor Burning Not Recommended. Issued Mar 12, 2021 1:58 PM EST

Weather Forecast Office
Boston/Norton, MA



Red Flag Warning

In effect 7am - 5pm Saturday

- For areas with NO SNOW PACK
- Northwest winds 15-25 mph
- Gusts up to 50 mph Saturday morning
- 25-30 mph gusts Saturday afternoon.
- Relative Humidity 20-30%

NWS Boston/Norton

weather.gov/box

Fire Impacts



NWS Mount Holly
@NWS_MountHolly

Dangerous fire weather conditions continue this afternoon. We've seen several reports of brush fires in the area including this one near Lakewood, NJ. Be very cautious with potential ignition sources! #NJwx #PAwx #DEwx #MDwx

The Lakewood Scoop @LakewoodScoop · Mar 14

BREAKING: Requesting backup from State FFS.
twitter.com/lakewoodscoop/...



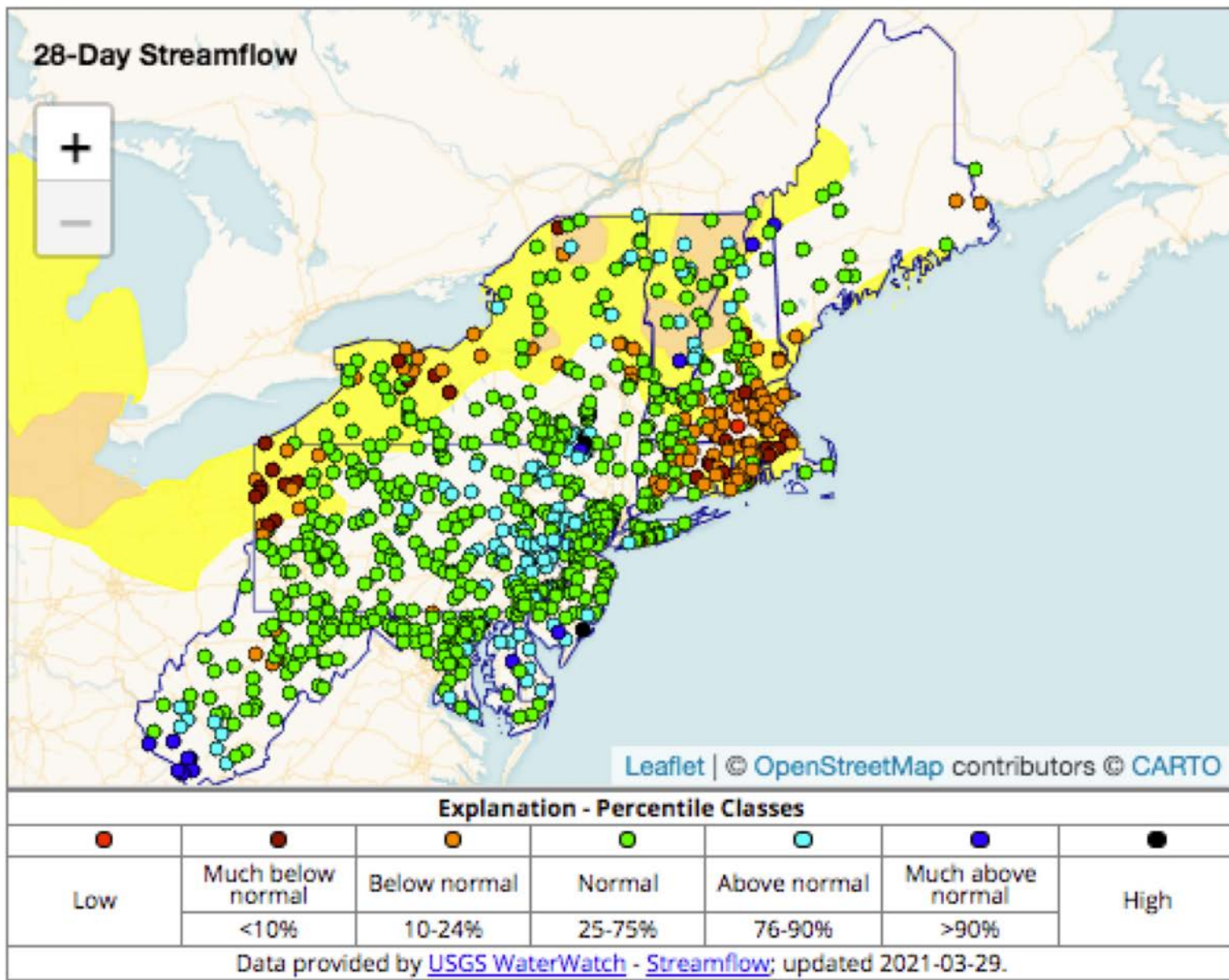
0:08 29.2K views



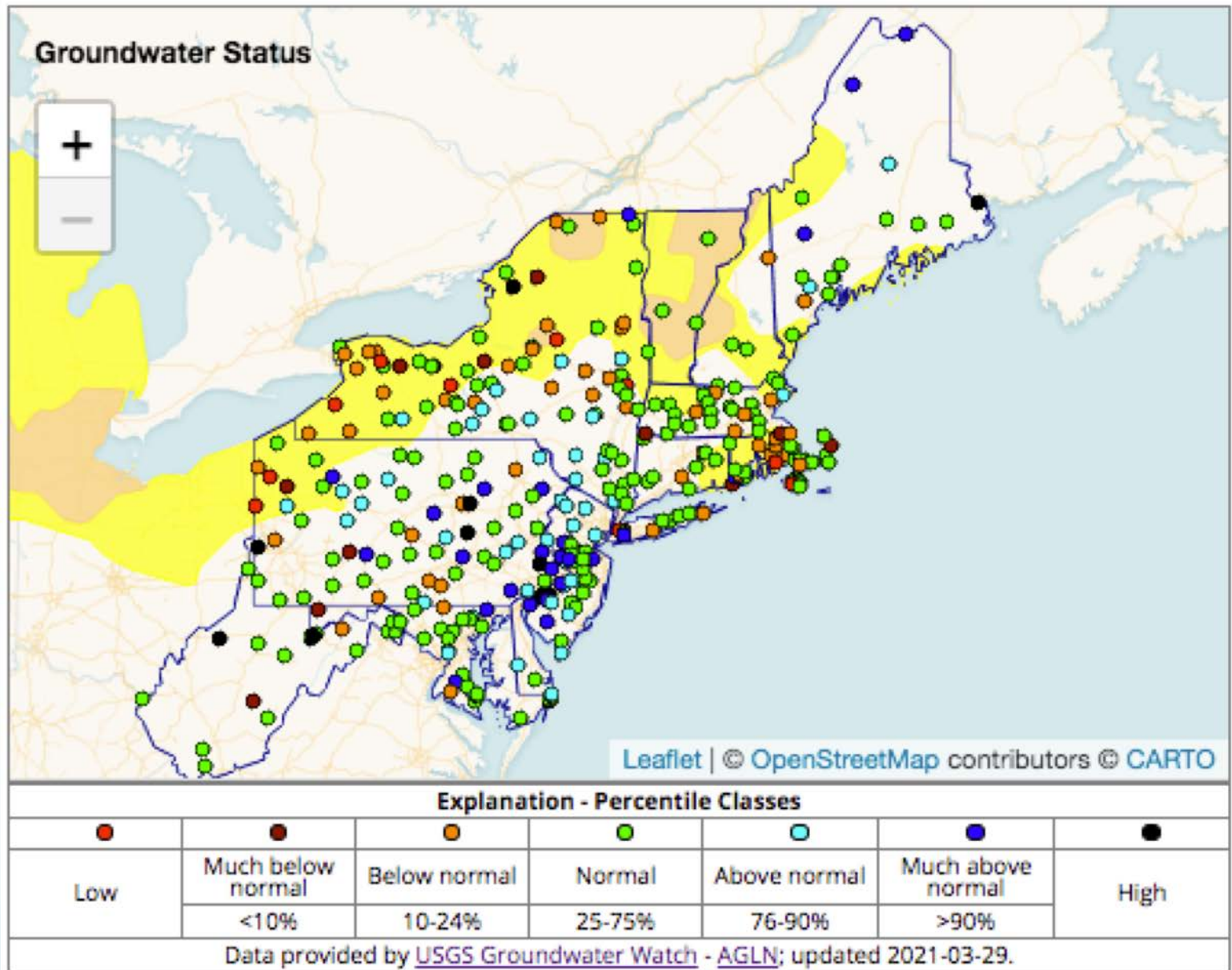
1:54 PM · Mar 14, 2021 · Twitter Web App



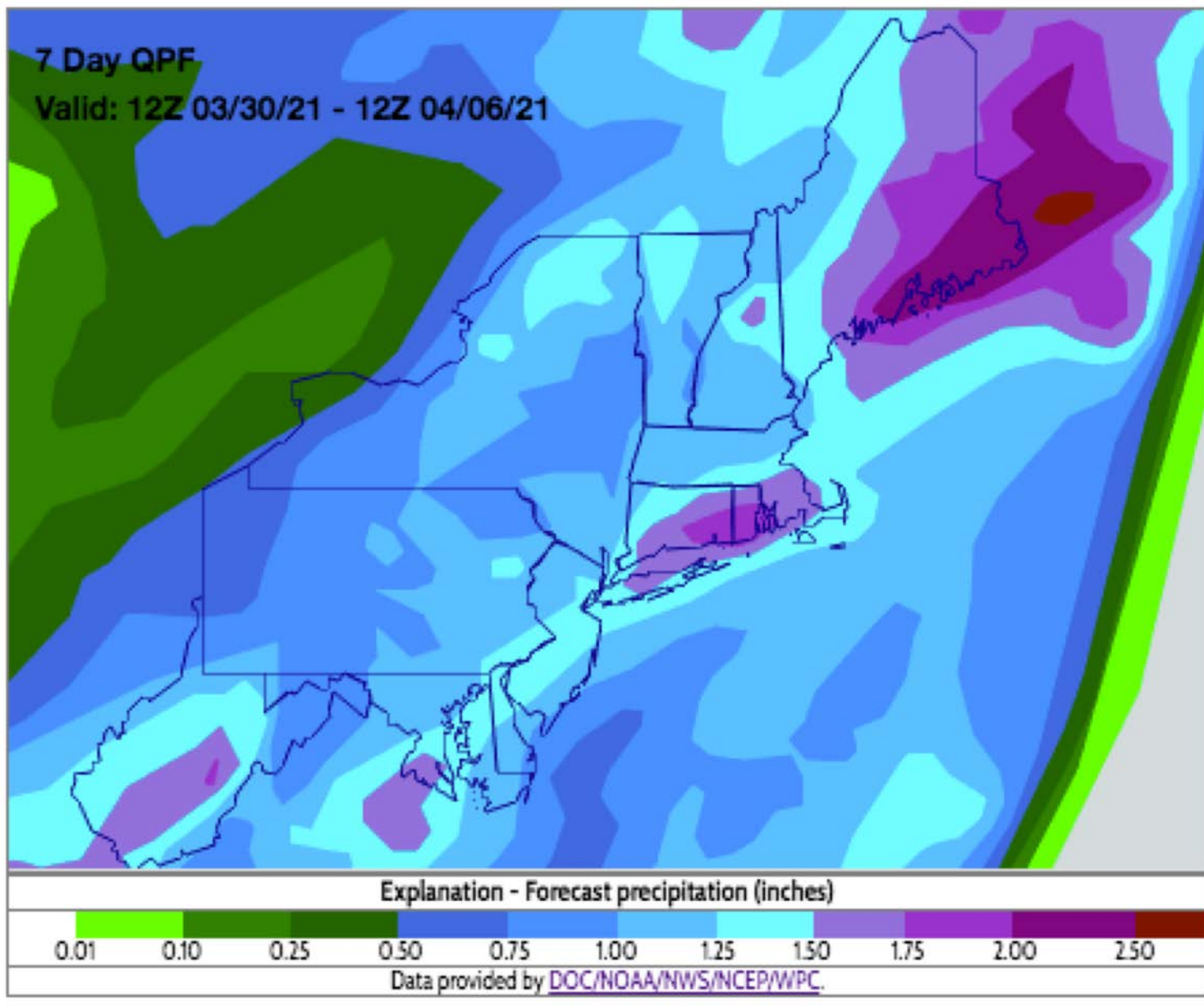
Streamflow



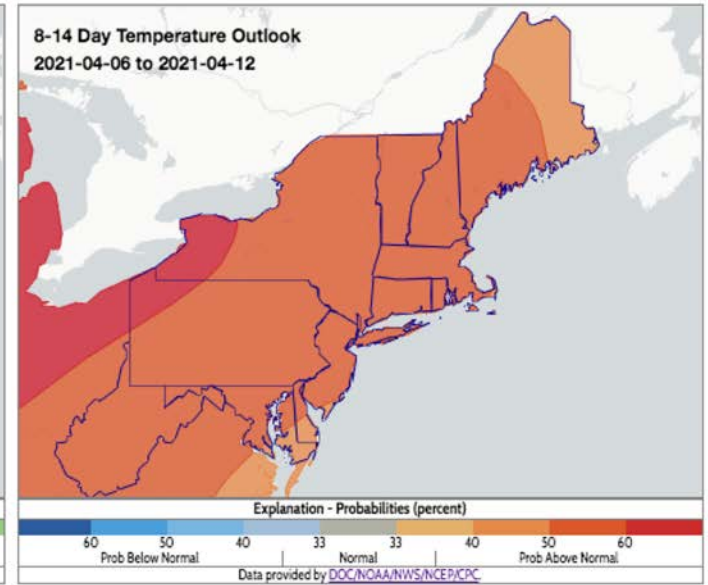
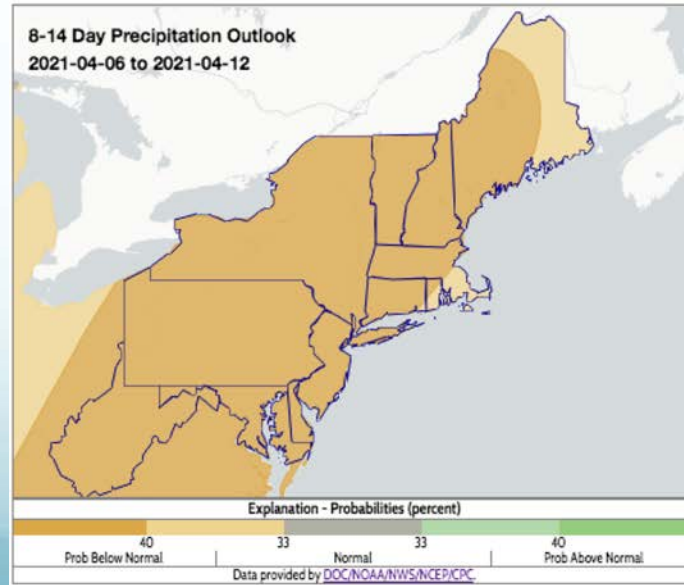
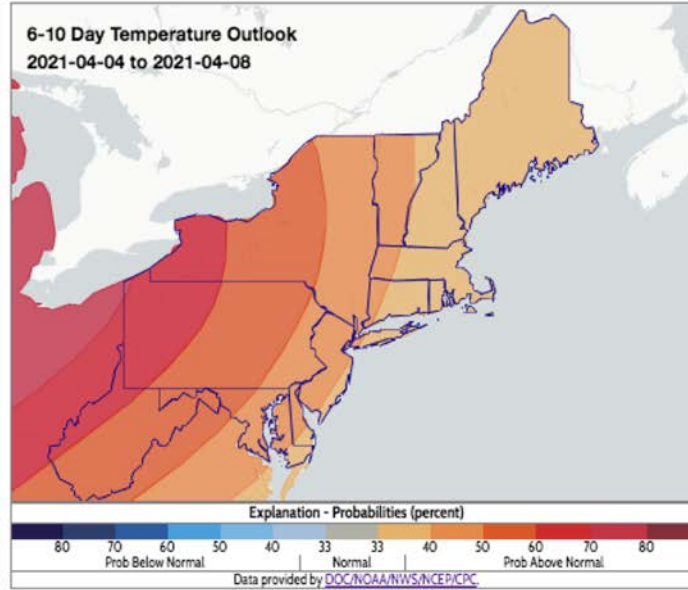
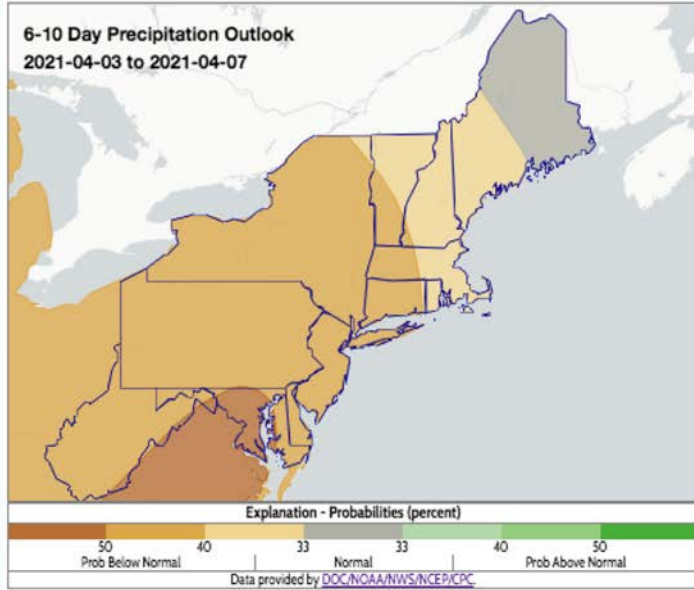
Groundwater



Precipitation Forecast



Short-term Outlooks



Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Thursday, April 29 at 9:30am
 - Northeast Climate Integrated Modeling
- Thursday, May 27 at 9:30am
 - Updated Climate Normals

www.nrcc.cornell.edu

