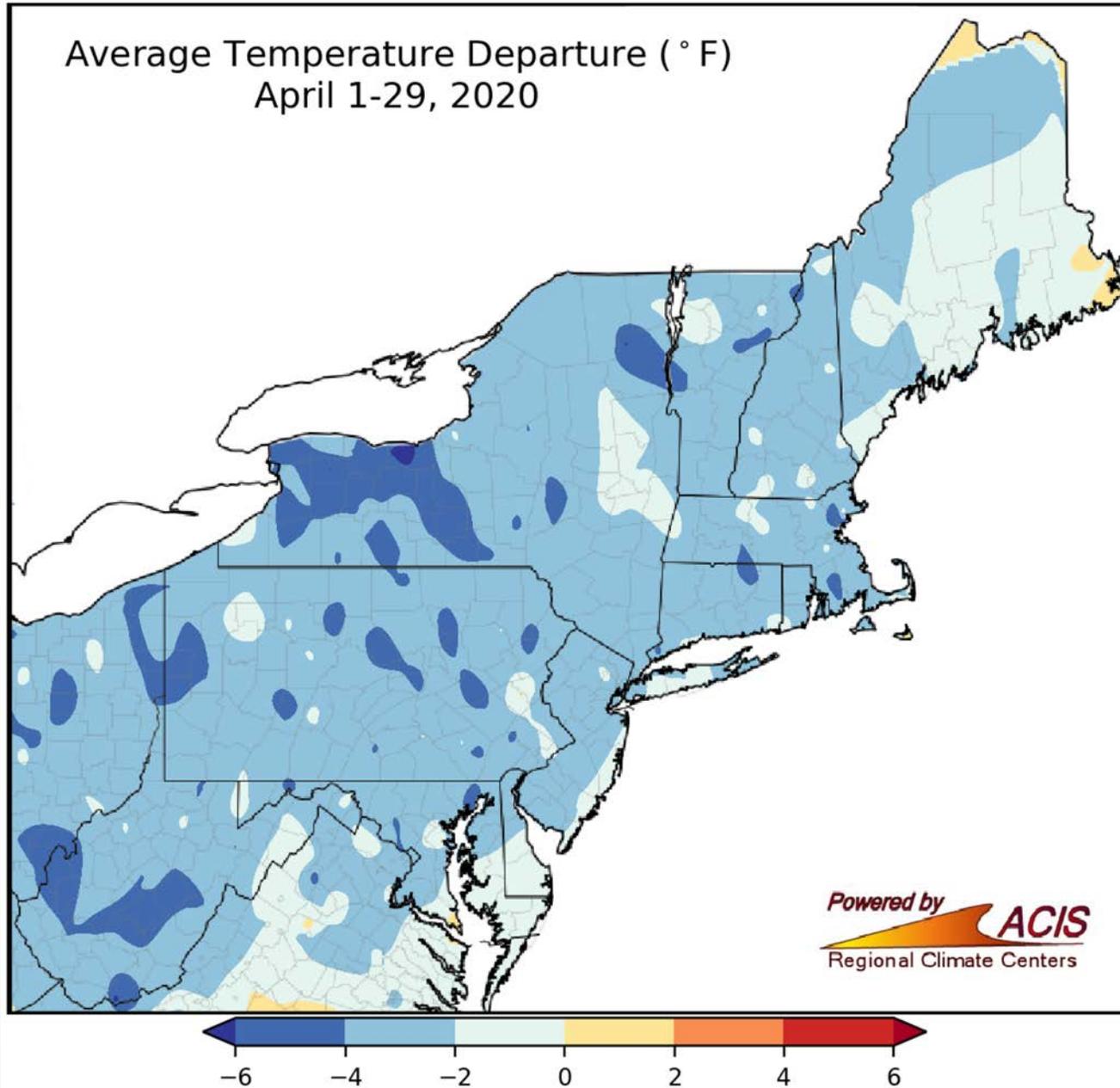


# April Review & Northeast DEWS Discussion

By: Samantha Borisoff, Climatologist  
Northeast Regional Climate Center



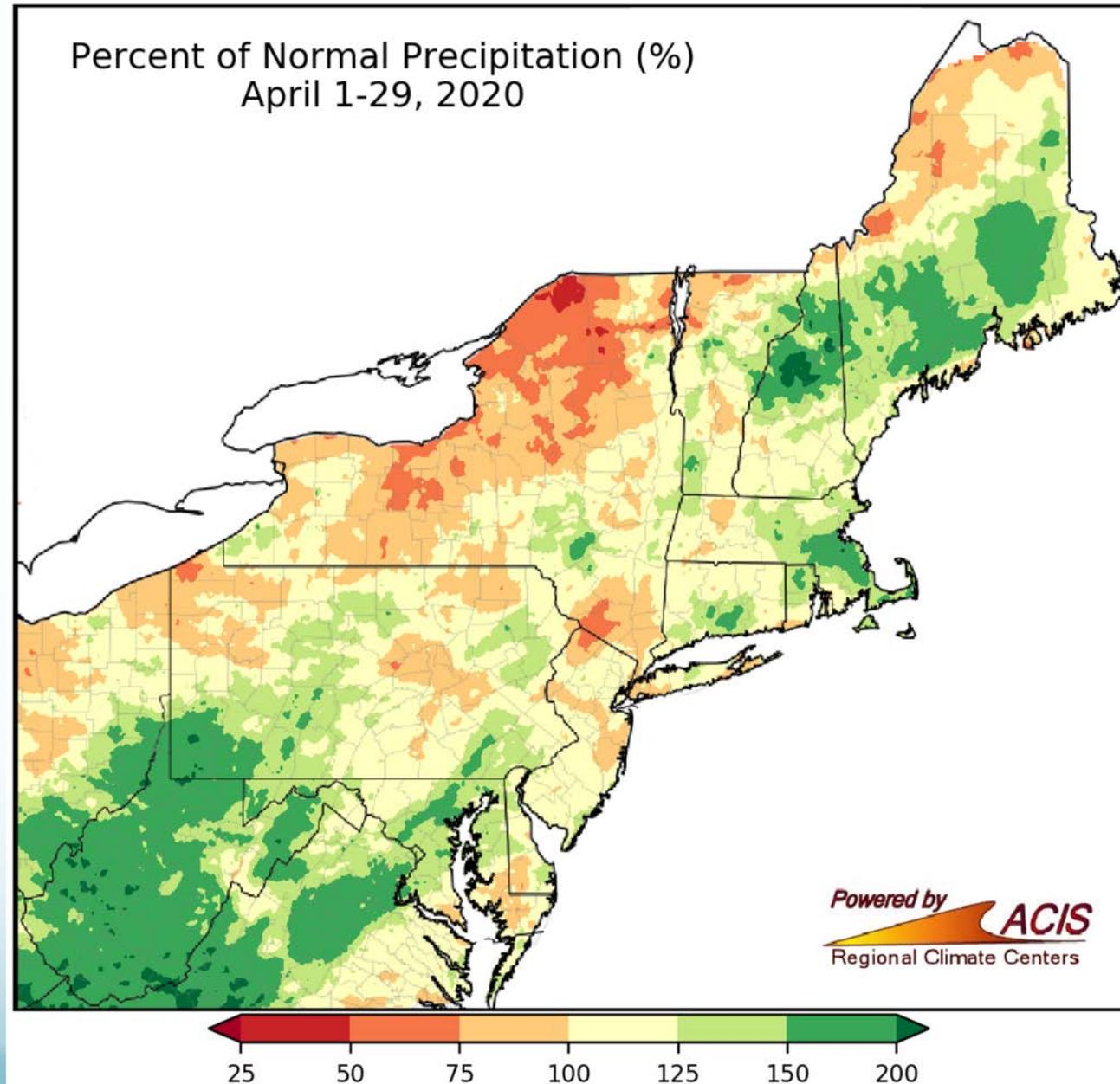
# April Temperatures



From 6°F below normal to near normal



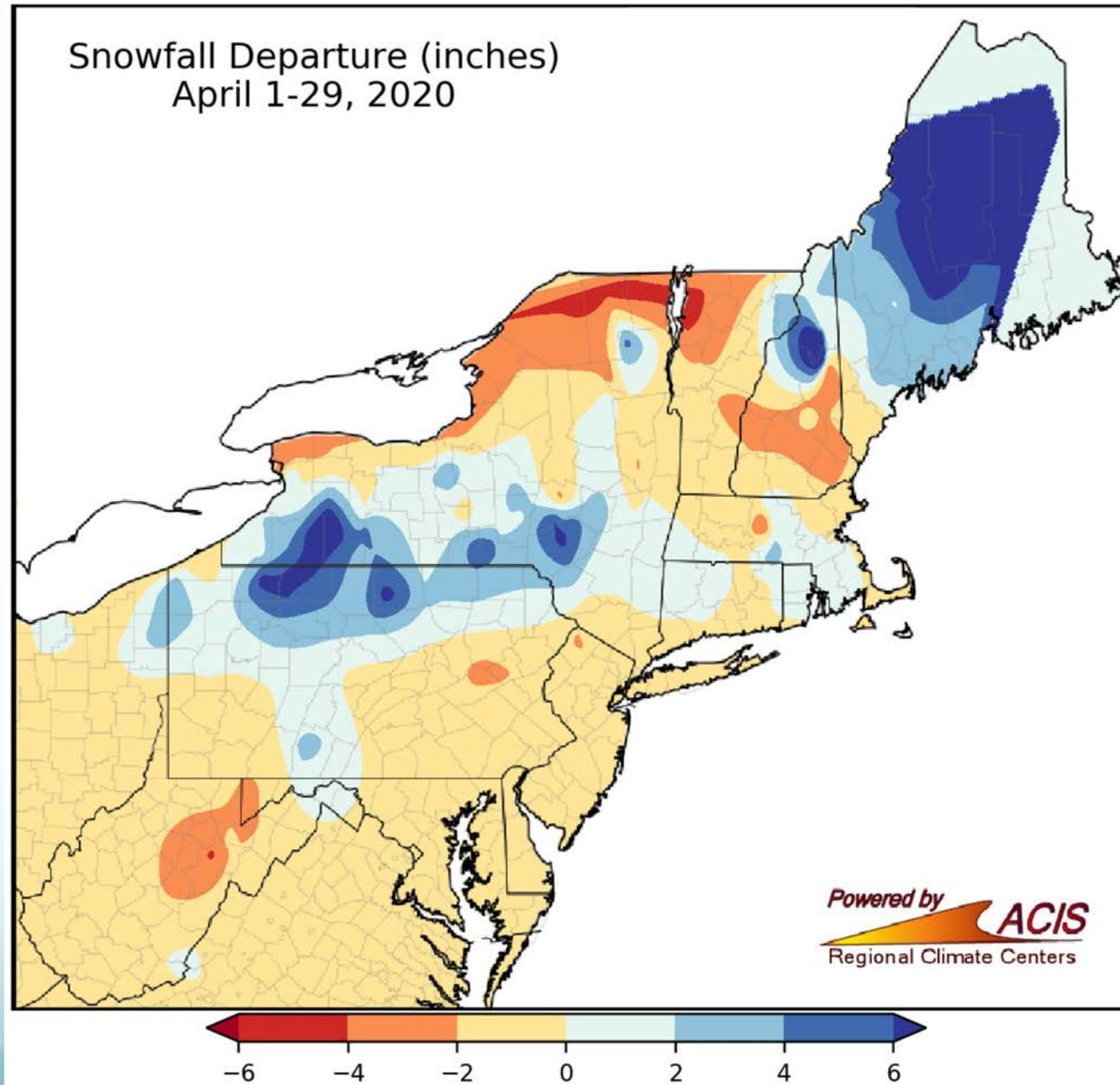
# April Precipitation



From 50% of normal to 200% of normal



# April Snowfall



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



# April 7-10 Storm



NWS Charleston, WV  
@NWSCharlestonWV

Some significant damage to a dealership in St. Albans from the line of severe storms earlier. #wvwx

SpencerAdkins @SpencerWeather · 11h

This is nuts - wind damage in St. Albans ... we saw that on radar and called that out live on TV - that's gotta be 80mph kinda wind just eyeballing - the damage is stupefying but glad it was when nobody was there ! Shot by @bryanweather - event was about 1:10am. #wvwx



5:07 AM · Apr 9, 2020 · Twitter Web App



ISSUED: 10:00 AM - Saturday, April 11, 2020

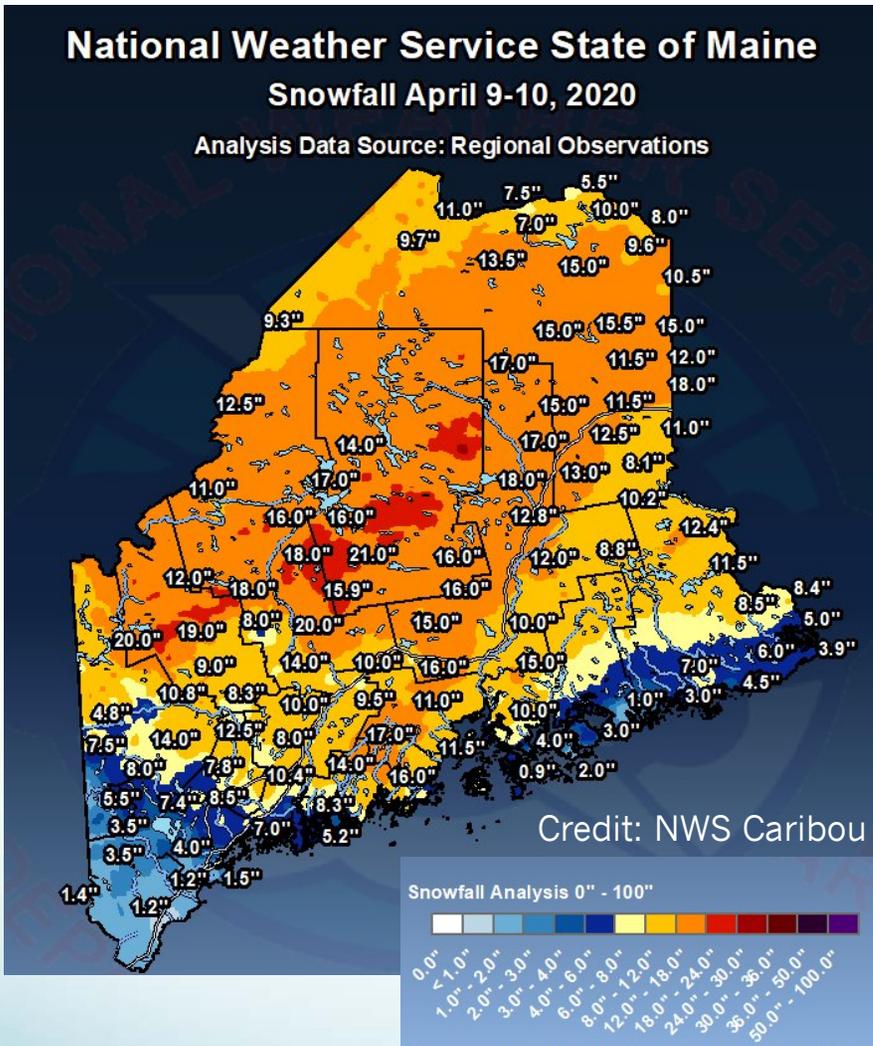


Credit: NWS PBZ



Damaging thunderstorm winds in southern areas (esp. WV and SW PA)  
Pittsburgh Airport – 2<sup>nd</sup> highest thunderstorm wind gust (75 mph)  
3 weak tornadoes in SW Pennsylvania

# April 7-10 Storm



NWS Caribou  
 @NWSCaribou

Here's the scene in Dover-Foxcroft, photos from Dover-Foxcroft police. Incredible amount of damage across the state from the wet heavy snow, with 1/3 of Mainers without power. #MEwx



9:47 AM · Apr 10, 2020 · Twitter Web App



Major late-season snowstorm in Maine and New Hampshire  
 Up to 21" – Caribou had 2<sup>nd</sup> snowiest April day (10.9" on 4/10)  
 Heavy, wet snow + strong winds = power outages for ~1/3 of Maine

# April 12-13 Storm



Gust (mph)	County, State	Location	Time (EDT)
82	Ocean, NJ	Island Beach State Park	12:09 PM
81	Ocean, NJ	5 mi SW Beach Haven	11:42 AM
81	Ocean, NJ	Barnegat Light	12:01 PM
79	Sussex, DE	Indian Beach	10:20 AM
74	Ocean, NJ	2 mi SSW Beach Haven	11:51 AM
73	Atlantic, NJ	Atlantic City Apt (Pomona)	11:36 AM
72	Cape May, NJ	Cape May Harbor	10:36 AM
70	Cape May, NJ	2 mi NNE Strathmere	11:11 AM
70	Atlantic, NJ	2 mi SSE Smithville	12:25 PM
68	Sussex, DE	2 mi SSE Greenwood	10:21 AM
68	Sussex, DE	2 mi WNW Lewes	10:25 AM
68	Cape May, NJ	1 mi NNW Sea Isle City	11:11 AM

Credit: NWS Philadelphia/Mount Holly



Wind gusts of 30-60 mph region-wide; strongest gusts were 60-82 mph  
 2 weak tornadoes in central Maryland  
 3+” rain in central Maryland & SE Pennsylvania

# April 21 Severe Weather



## Preliminary Damage Survey Results

### Normandy Beach Tornado - Ocean County, NJ

Date	April 21, 2020
Time (Local)	3:05 PM EDT
EF Rating	EF-0
Est. Peak Winds	70 mph
Path Length	0.4 miles
Max Width	20 yards
Injuries/Deaths	0



Photo Credit: Gina Weppler

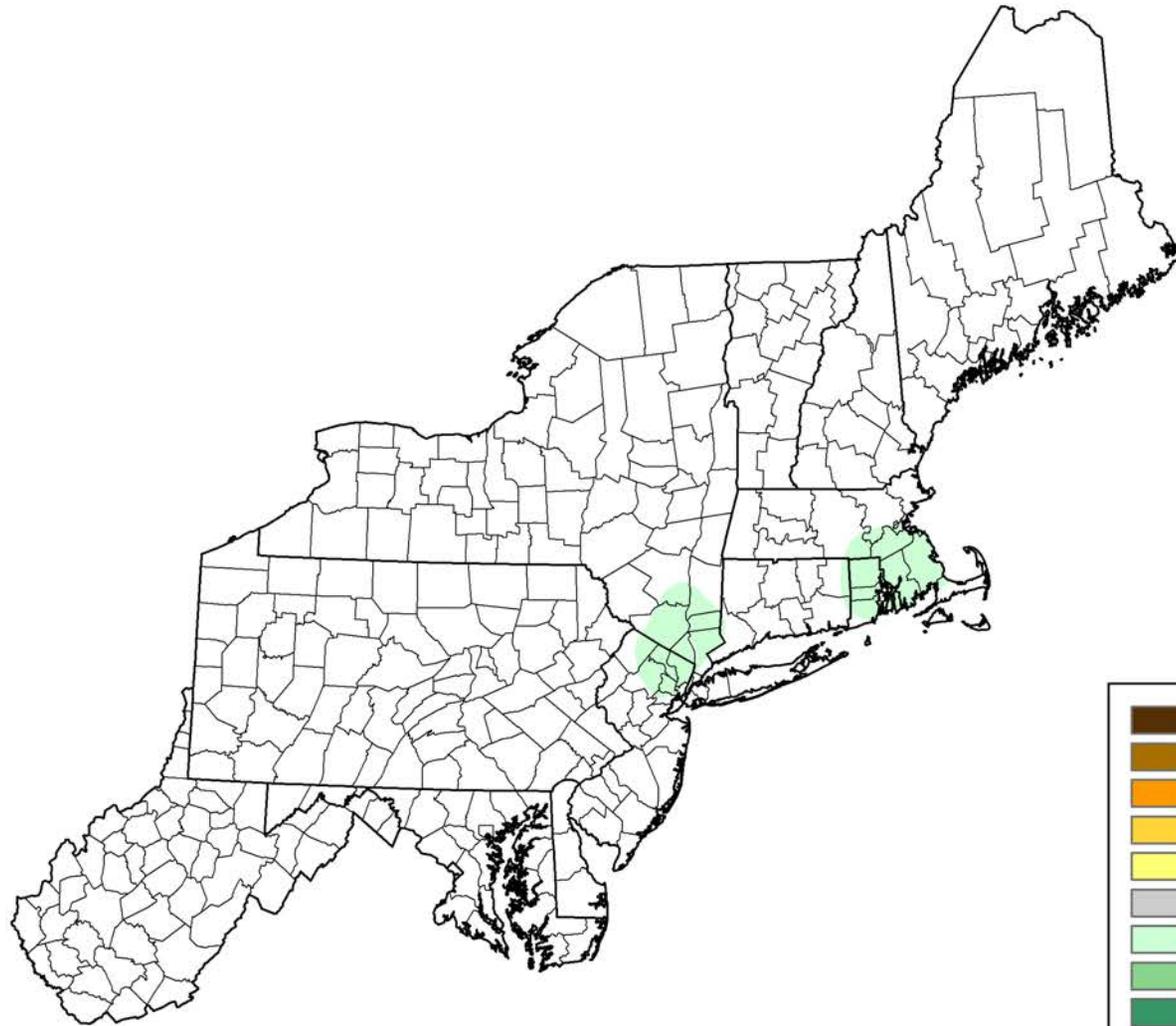
ISSUED: 4:25 PM EDT - Thursday, April 23, 2020  
National Weather Service - Philadelphia/Mount Holly



Waterspouts, damaging straight-line winds, and a weak tornado  
in New Jersey

# Change Map

## U.S. Drought Monitor Class Change - Northeast 1 Month



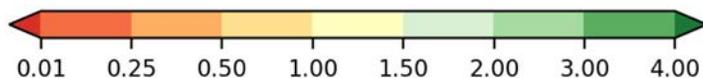
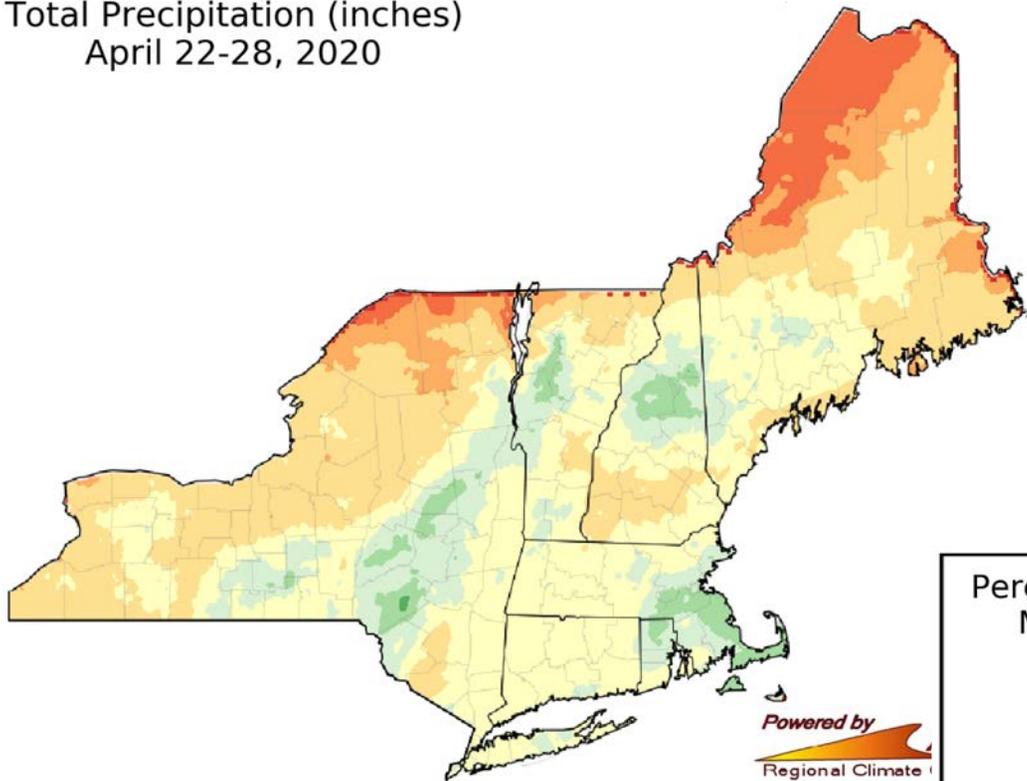
- 5 Class Degradation
- 4 Class Degradation
- 3 Class Degradation
- 2 Class Degradation
- 1 Class Degradation
- No Change
- 1 Class Improvement
- 2 Class Improvement
- 3 Class Improvement
- 4 Class Improvement
- 5 Class Improvement

April 21, 2020  
compared to  
March 24, 2020

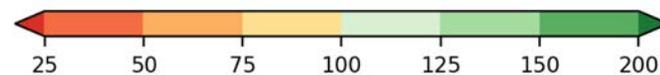
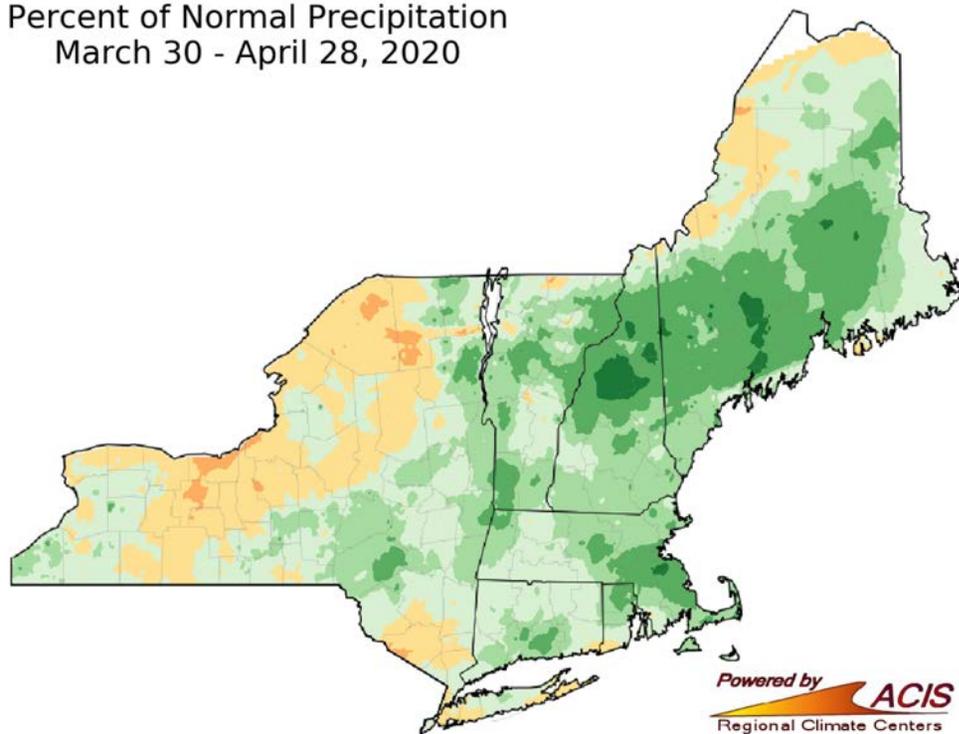
[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)



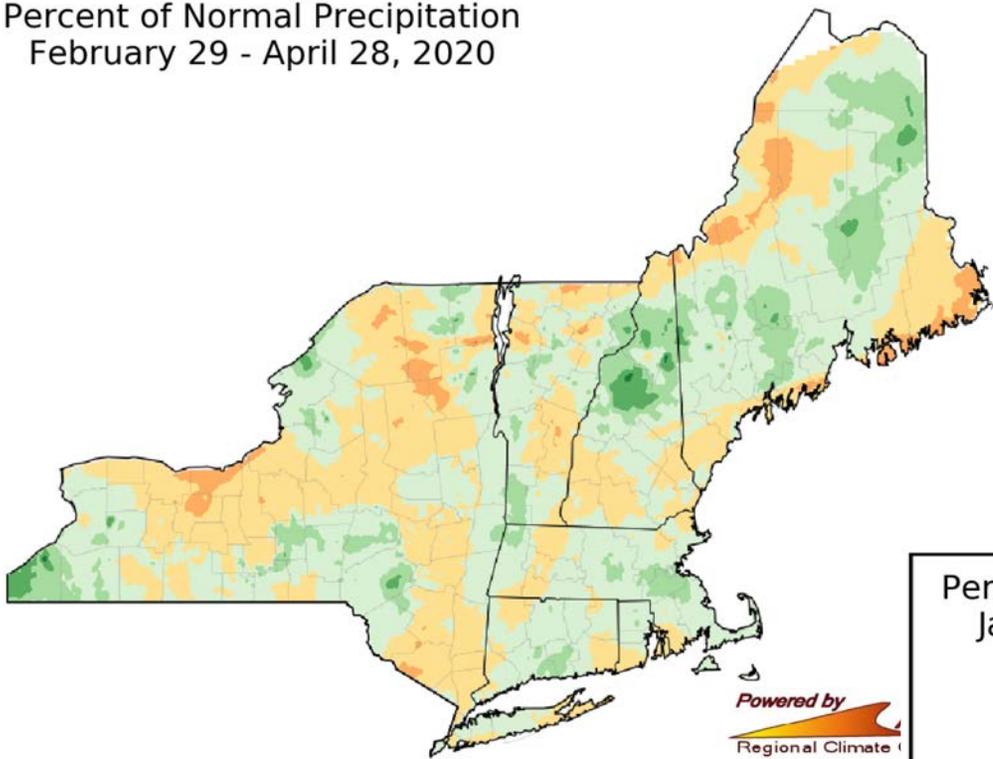
Total Precipitation (inches)  
April 22-28, 2020



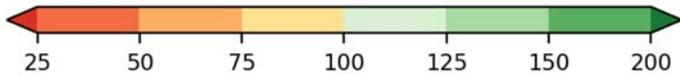
Percent of Normal Precipitation  
March 30 - April 28, 2020



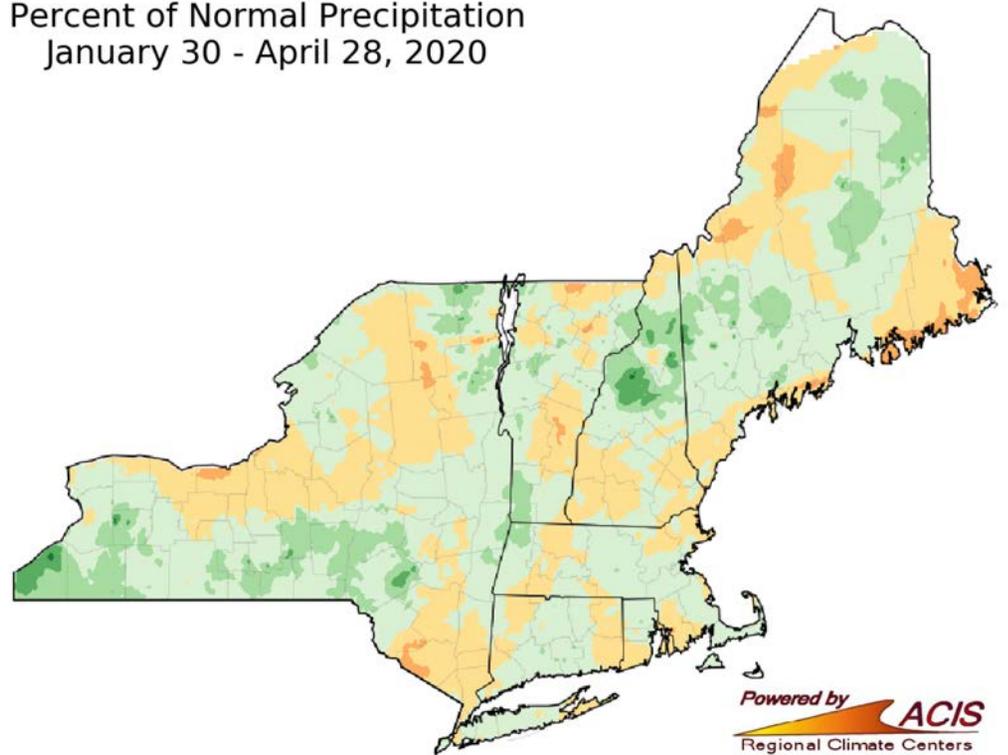
Percent of Normal Precipitation  
February 29 - April 28, 2020



Powered by  
Regional Climate

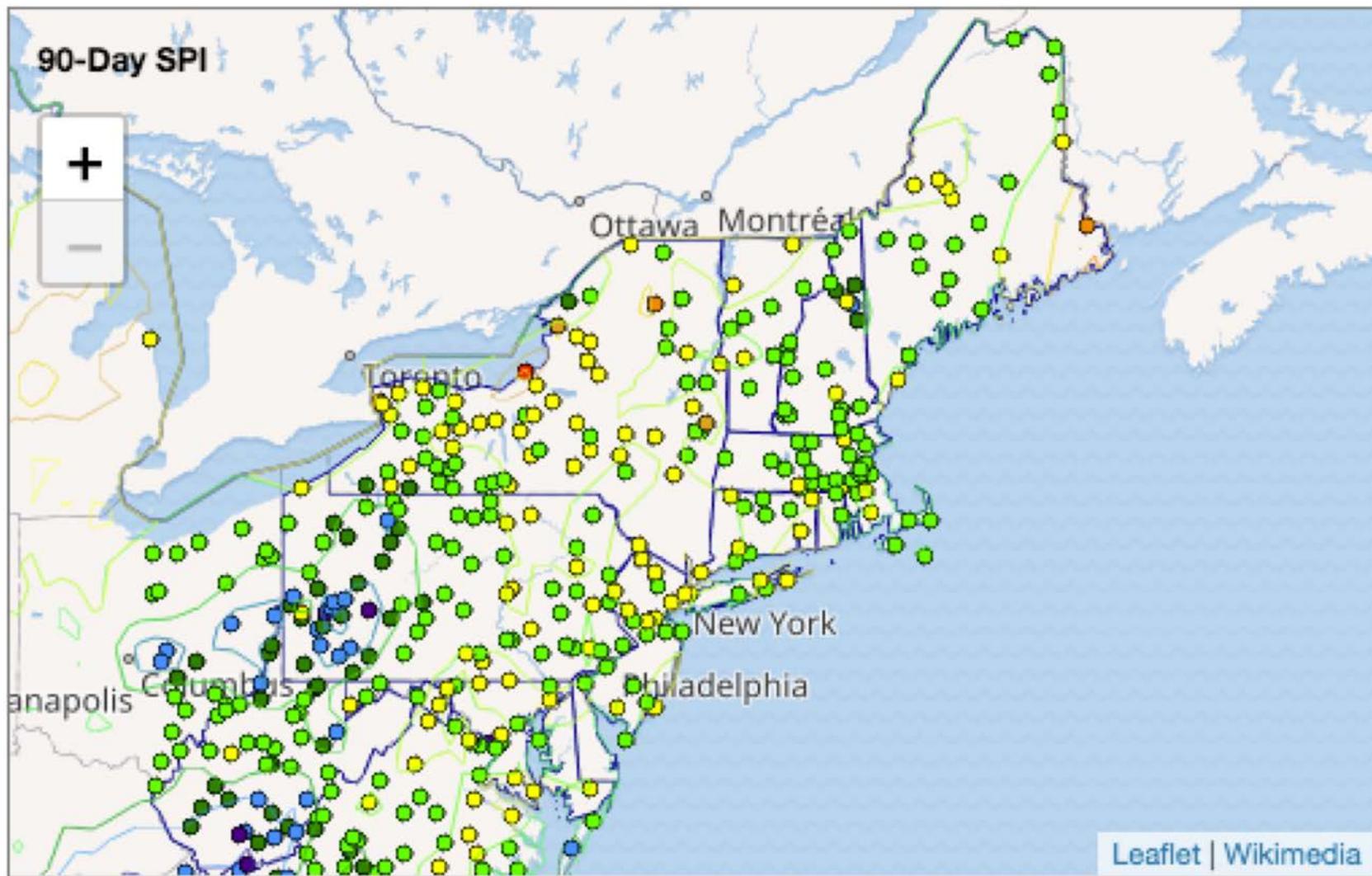


Percent of Normal Precipitation  
January 30 - April 28, 2020



Powered by  
**ACIS**  
Regional Climate Centers



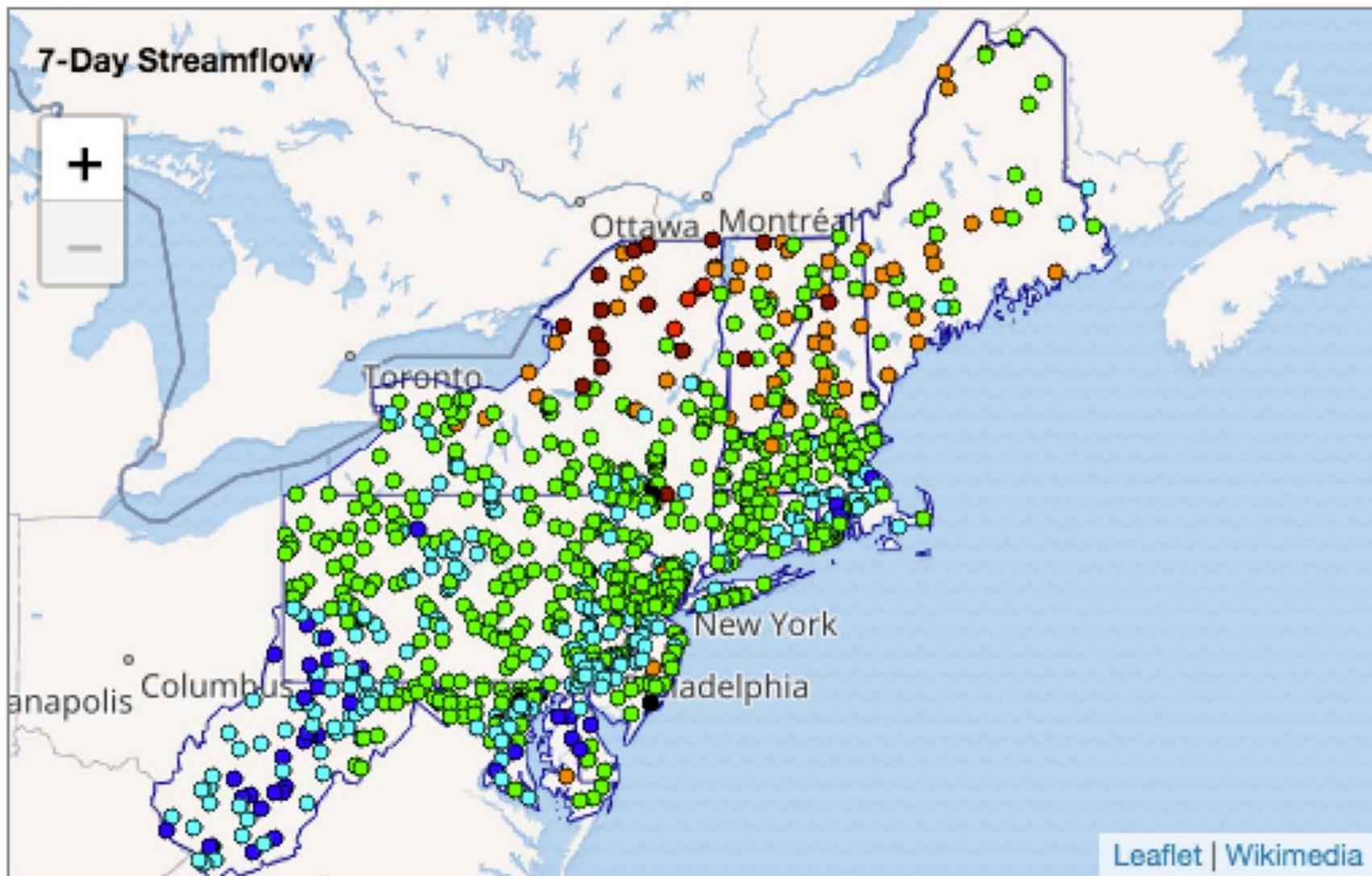


**Explanation - SPI Levels**

●	●	●	●	●	●	●	●	●	●	●	●
<-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](#).



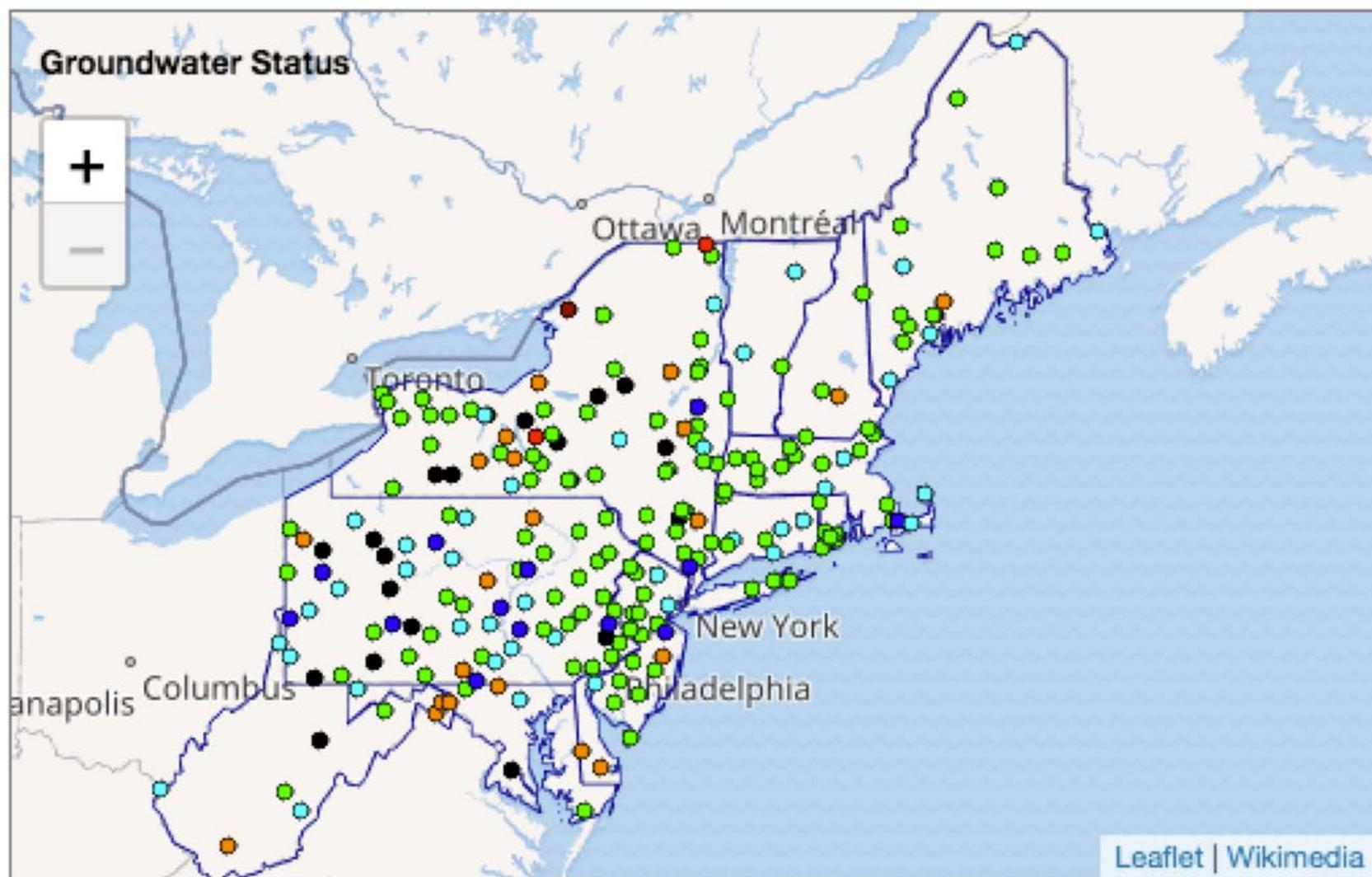


**Explanation - Percentile Classes**

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

Data provided by [USGS WaterWatch - Streamflow](#).



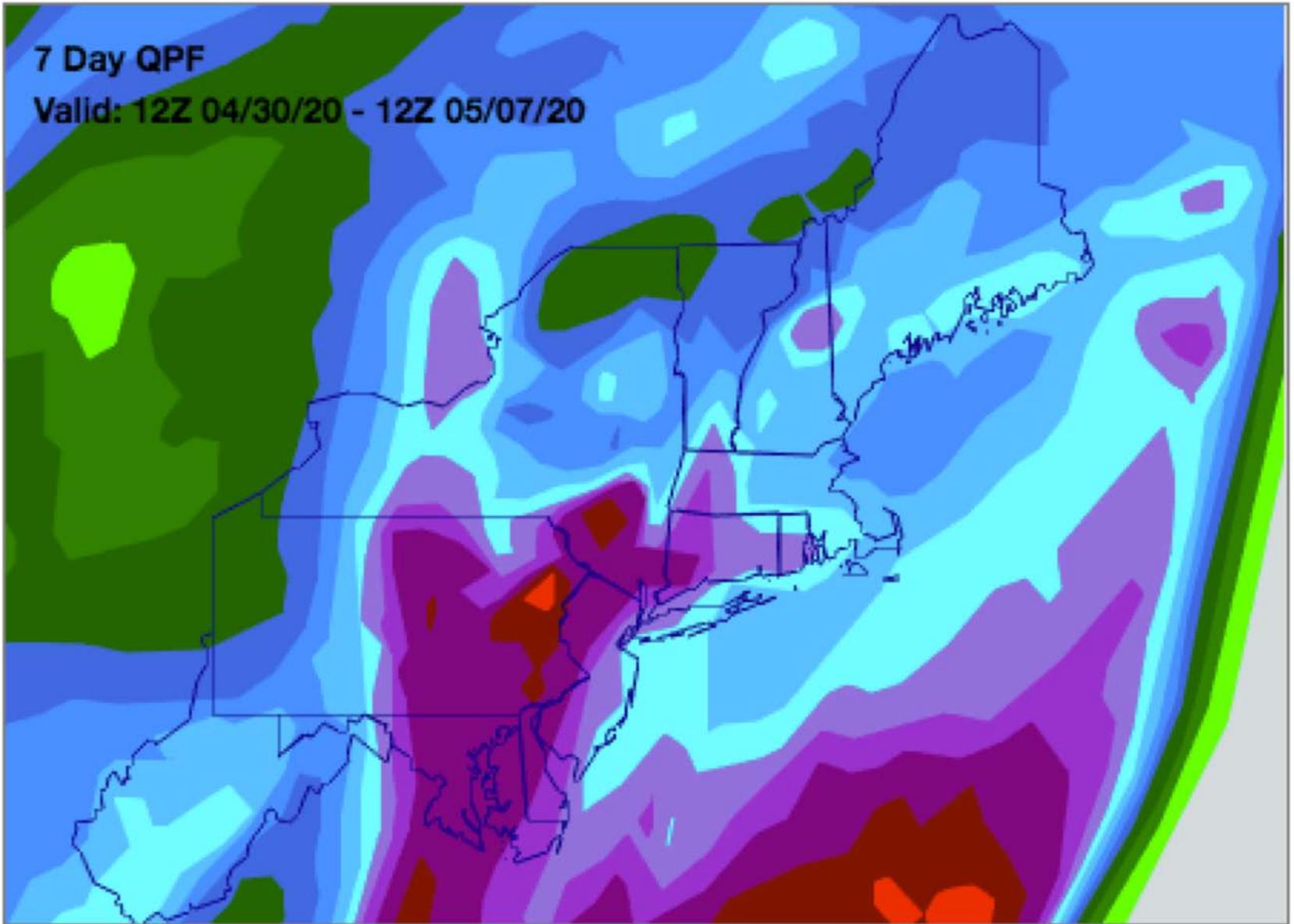


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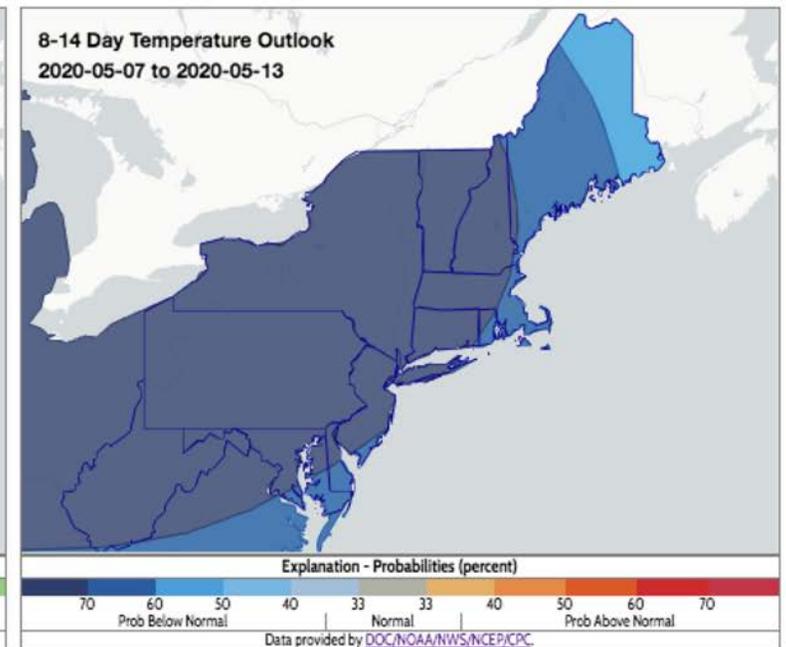
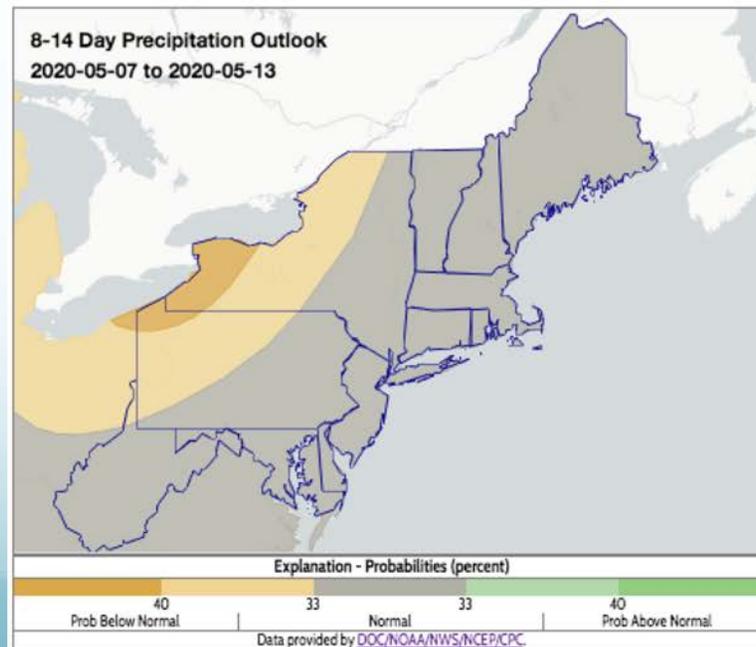
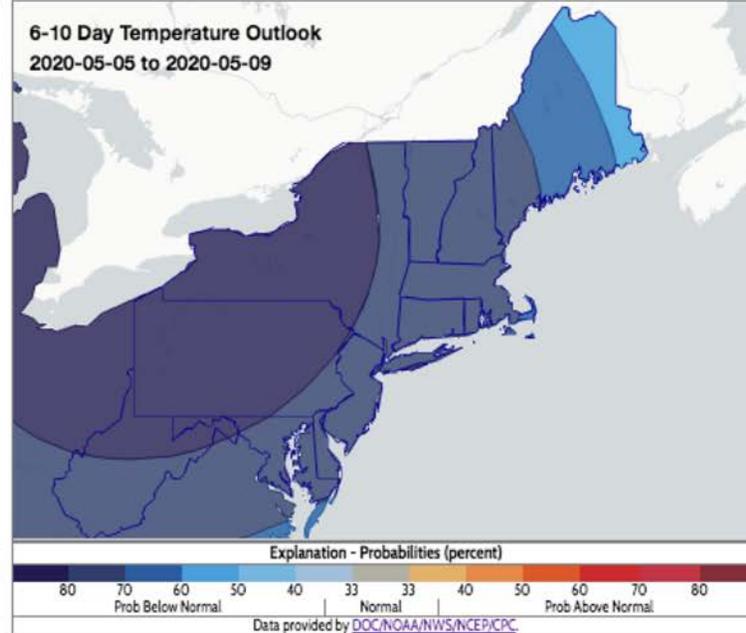
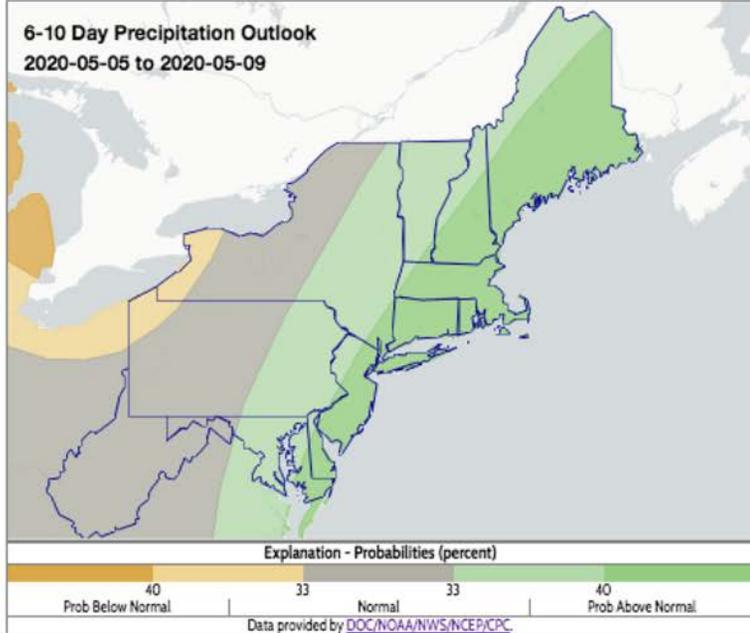
Data provided by [USGS Groundwater Watch](#) - [Climate Response Network](#).



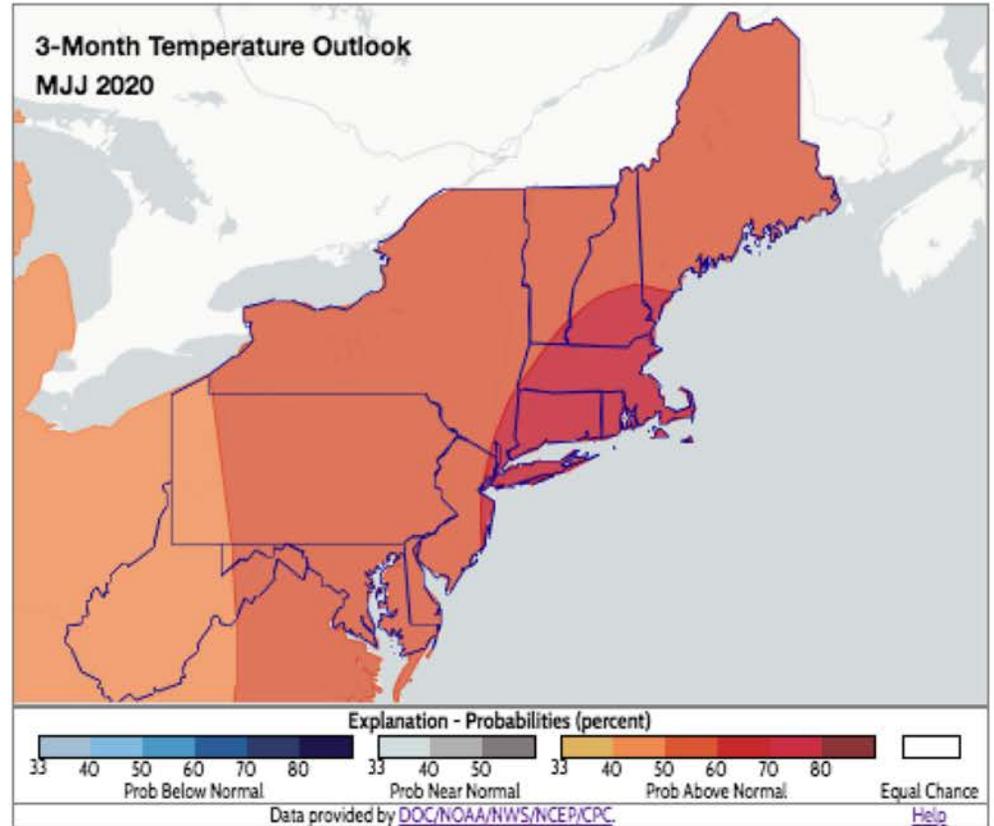
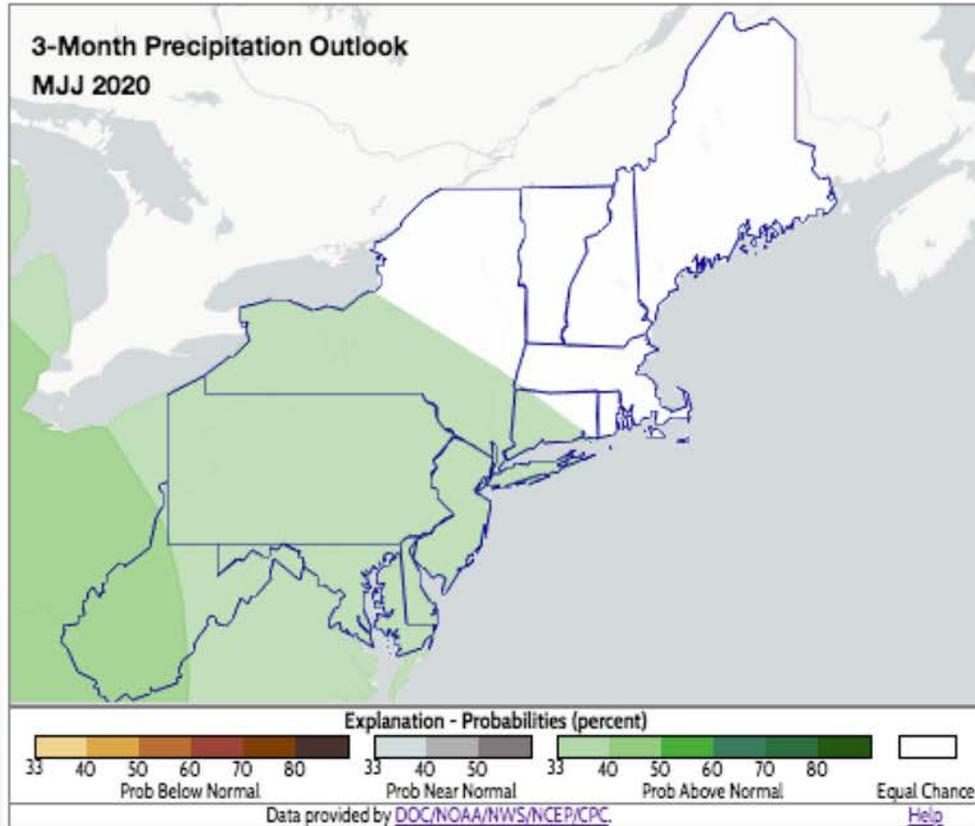


Data provided by [DOC/NOAA/NWS/NCEP/WPC](#).

# Short-term Outlooks



# Three-Month Outlook



# Contact Information

- [nrcc@cornell.edu](mailto:nrcc@cornell.edu)
- 607-255-1751

## Upcoming Webinars

- Thursday, May 28 at 9:30am
  - Phenology/Status of Spring
- Tuesday, June 30 at 9:30am
  - Heat Season
- Thursday, July 30 at 9:30am
  - EDDI (Evaporative Demand Drought Index)



[www.nrcc.cornell.edu](http://www.nrcc.cornell.edu)