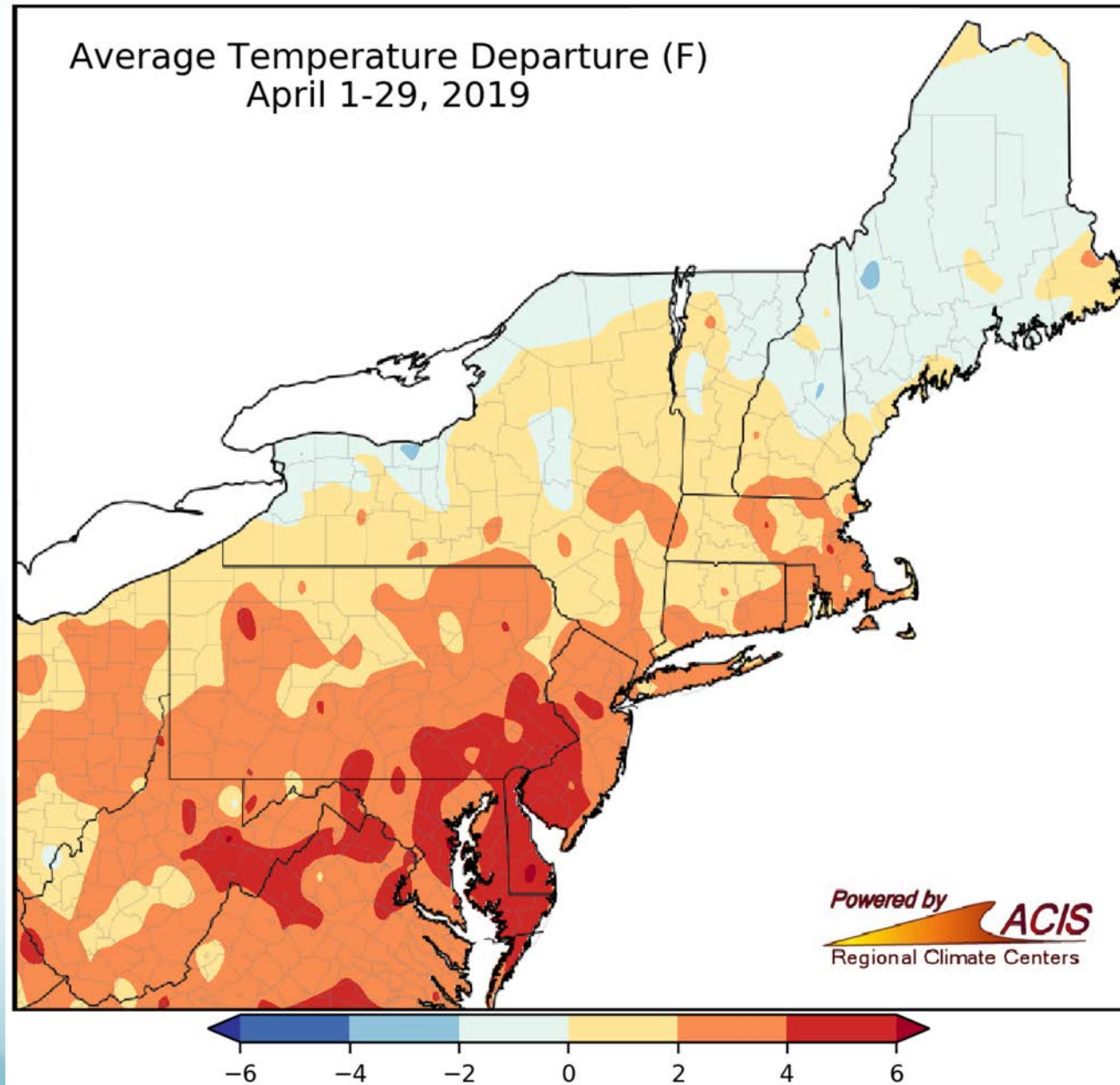


# April Recap & Northeast DEWS Discussion

By: Samantha Borisoff, Climatologist  
Northeast Regional Climate Center

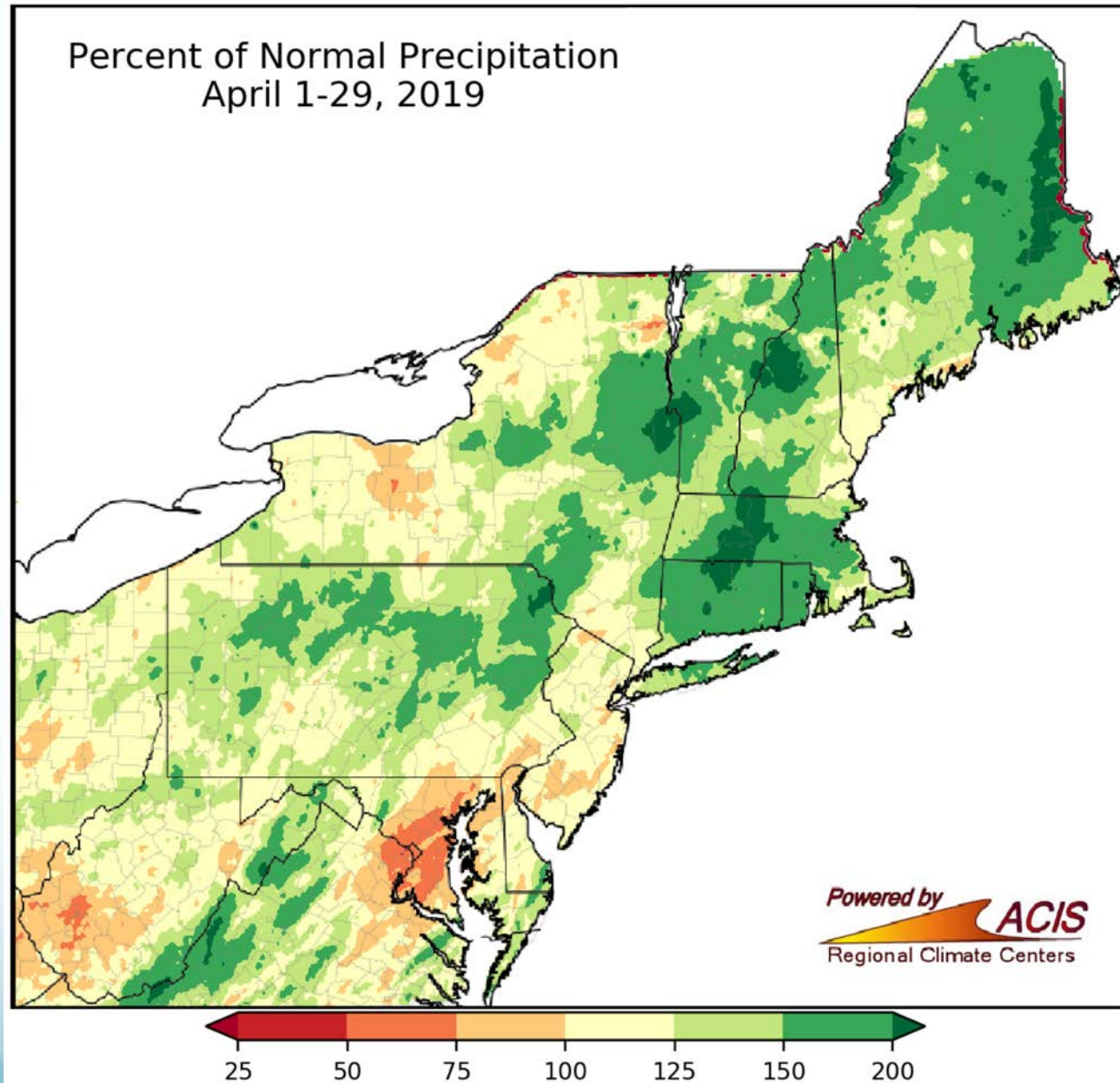


# April Temperatures



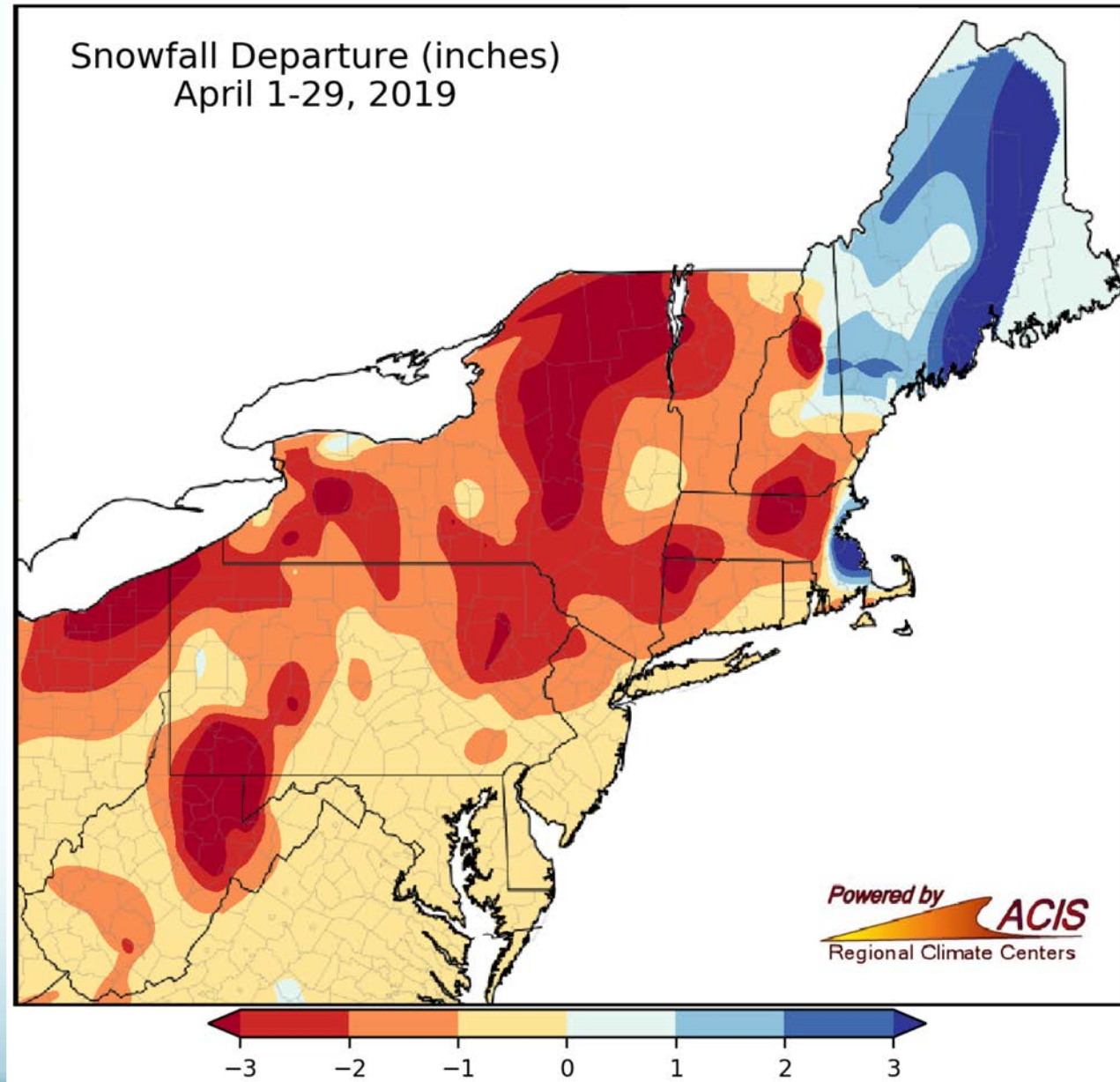
From 2°F below normal to 6°F above normal

# April Precipitation



From 50% of normal to 200% of normal

# April Snowfall



From more than 3" below normal to more than 3" above normal



# Caribou Snow Depth

Record 163 consecutive days with at least 1" of snow on the ground from Nov. 10, 2018 – Apr. 21, 2019

Previous record was 155 days from Nov. 17, 2002 – Apr. 20, 2003

All photos courtesy of NWS Caribou



Feb. 27 snow depth: 43"  
drifts as high as 10 ft.



NetCamXL Sun Mar 31 16:02:09 2019  
Exposure: 36

Mar. 31 snow depth: 29"



Apr. 22 snow depth: Trace



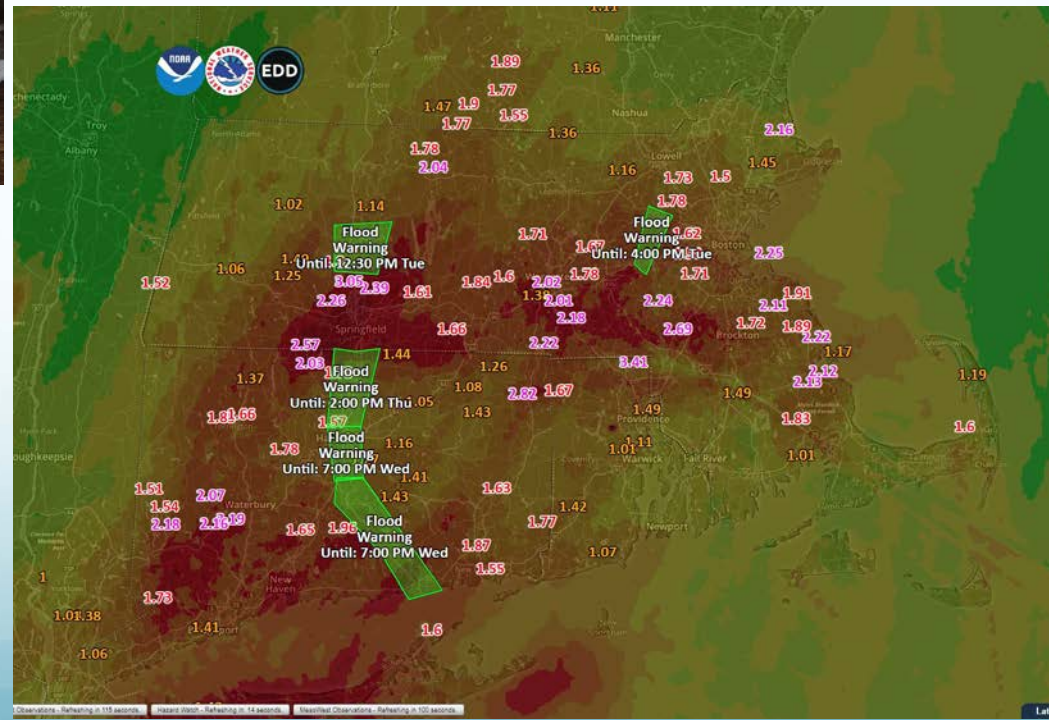
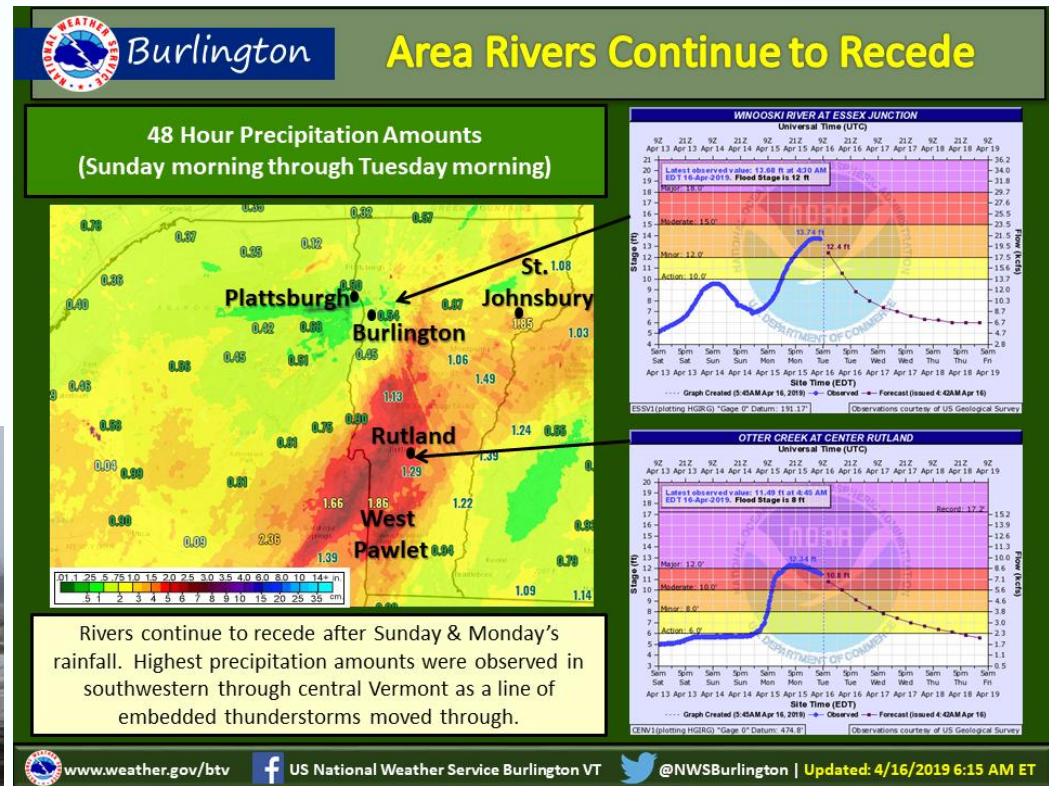
# Flooding

Flash flooding from thunderstorms in Vermont on April 15.



Ice jam on the Aroostook River on April 19. Photo courtesy of NWS Caribou

Flood warnings along the Connecticut River due to heavy rain and upstream snow melt on April 22. Image courtesy of NWS Boston





# Severe Weather: April 14–15



Photo courtesy of NWS State College

## 13 tornadoes:

- 9 in Pennsylvania (EF-0 to EF-2)
- 2 in Delaware (EF-1 and EF-2)
  - First April tornadoes in 25+ years
  - State averages 0 tornadoes in April and 1 annually
- 1 in New York (EF-1)
- 1 in Maryland (EF-0)

Straight-line winds of up to 105 mph

Golf ball-sized hail

Heavy rain - flooding

Most occurred in the early morning

# Severe Weather: April 19



Photo courtesy of NWS State College

5 tornadoes in Pennsylvania (EF-1s and EF-2s):

- First April tornado in Fulton County

14 tornadoes total in April in Pennsylvania:

- Greatest number of tornadoes for April since records began in 1950
- State typically sees most tornadoes of all Northeast states
- State averages 2 April tornadoes and 15 annually



# Severe Weather: April 26

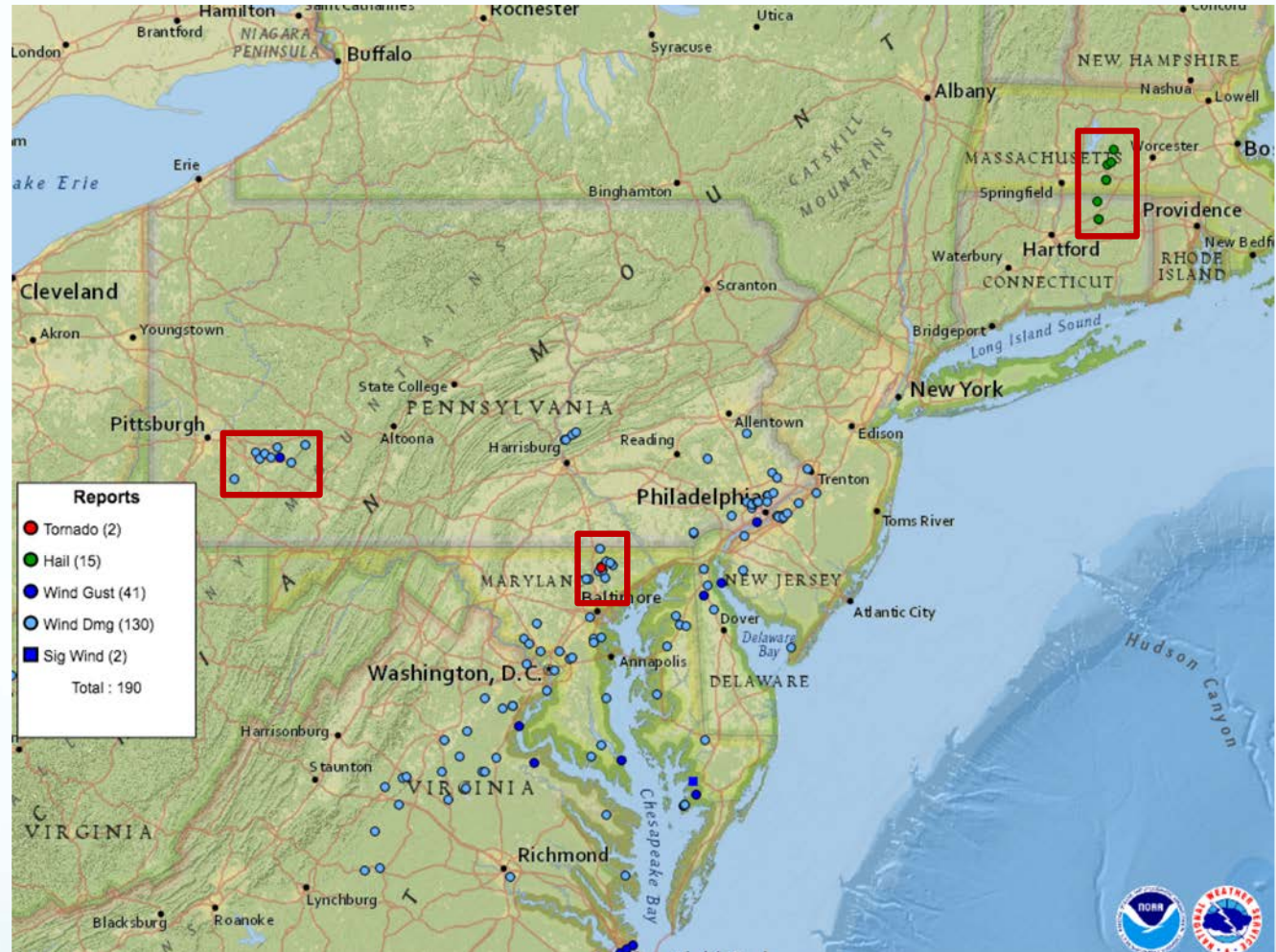
EF-1 tornado in Maryland:

- Second tornado this month (average is 1)

Straight-line winds in western Pennsylvania

Golf ball-sized hail in Massachusetts:

- only 3<sup>rd</sup> time hail that size or larger reported in April since 1950 (last in 1969)



On April 8:

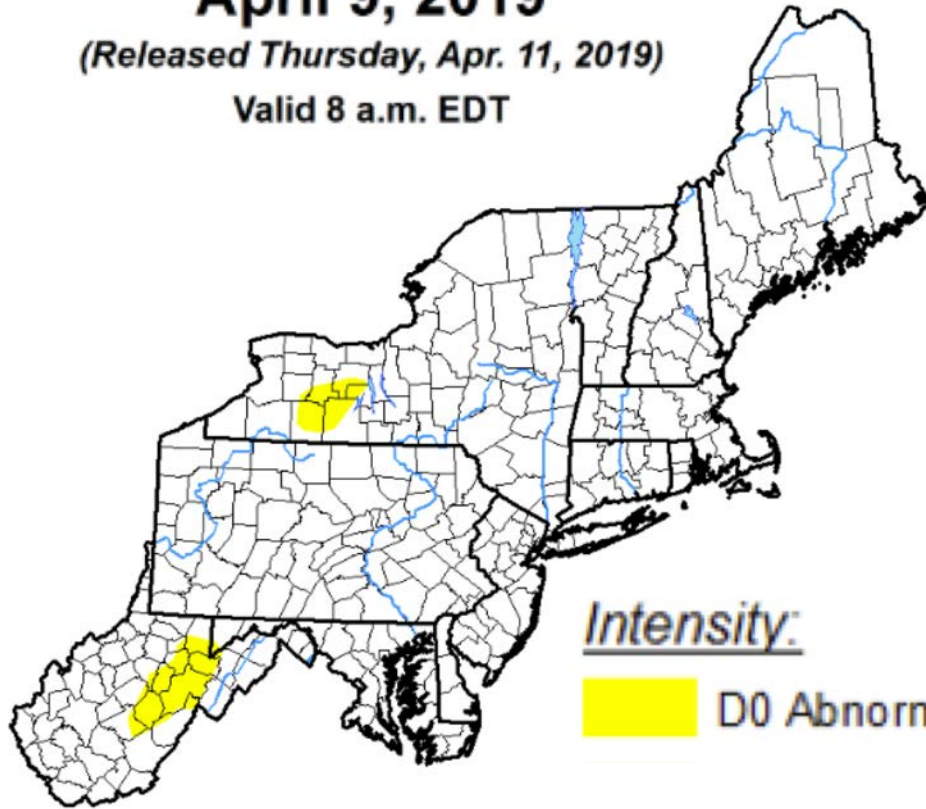
- 3-inch hailstone near Princeton, WV - largest hailstone to fall in the state during April

# Drought Monitor

**April 9, 2019**

*(Released Thursday, Apr. 11, 2019)*

Valid 8 a.m. EDT



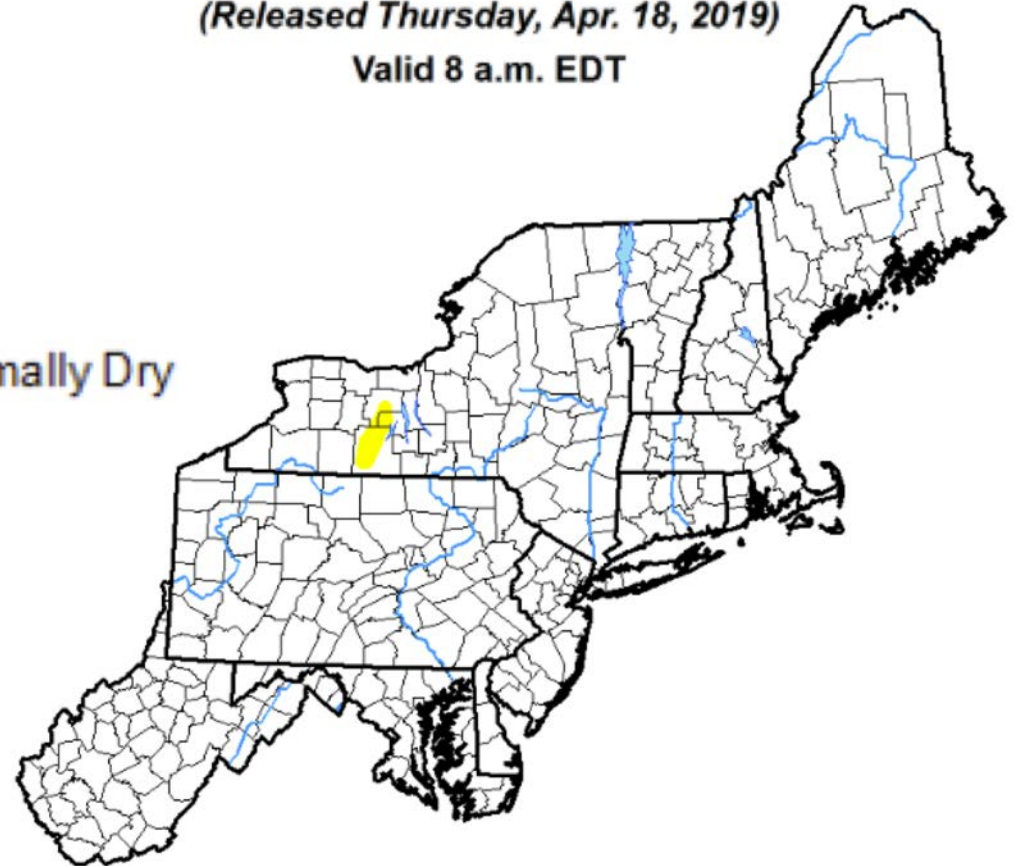
Intensity:

■ D0 Abnormally Dry

**April 16, 2019**

*(Released Thursday, Apr. 18, 2019)*

Valid 8 a.m. EDT

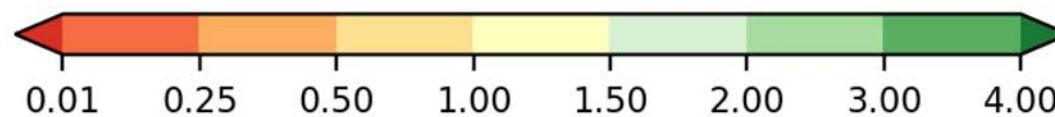
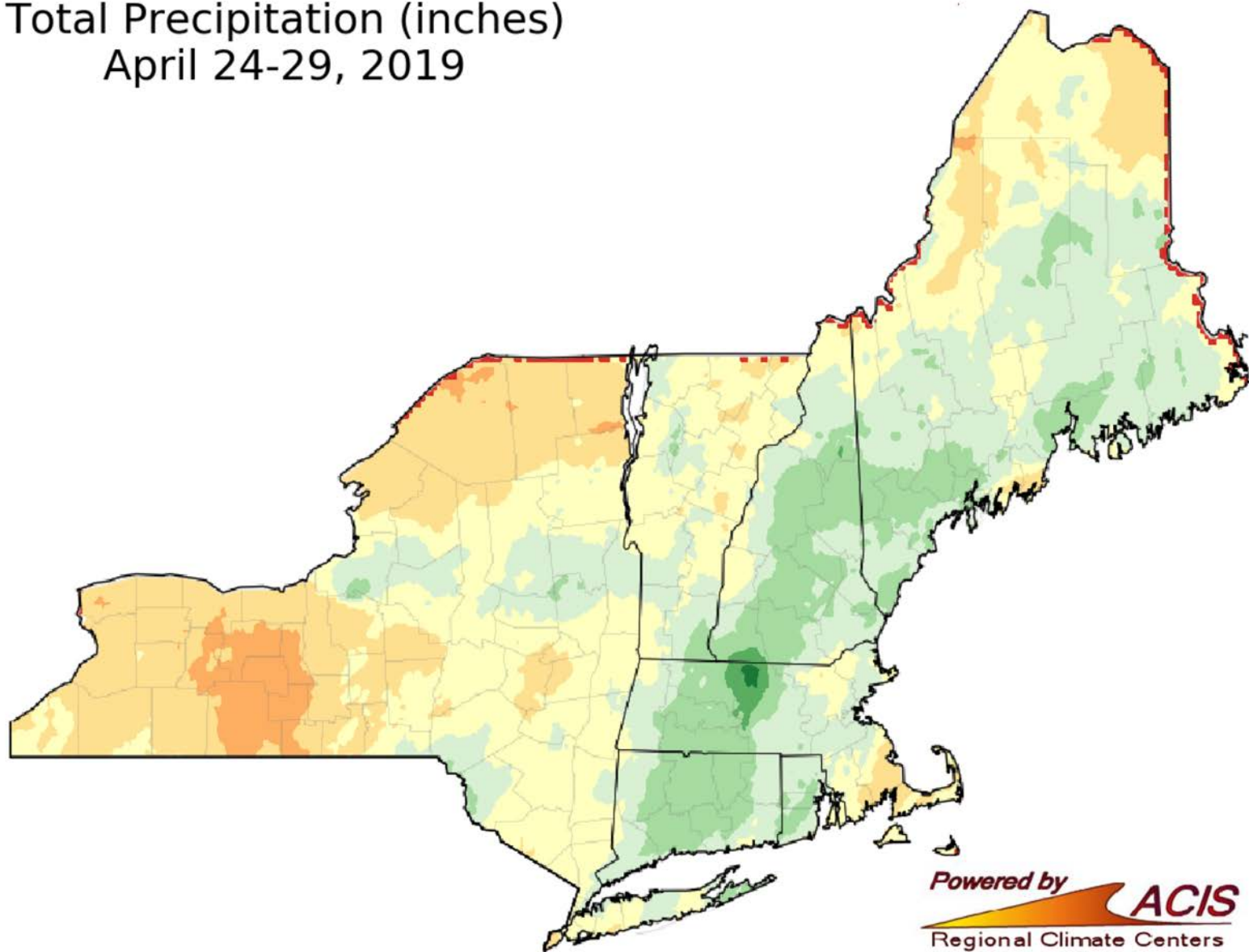


Week	None	D0-D4
2019-04-09	97.20	2.80
2019-04-16	99.54	0.46

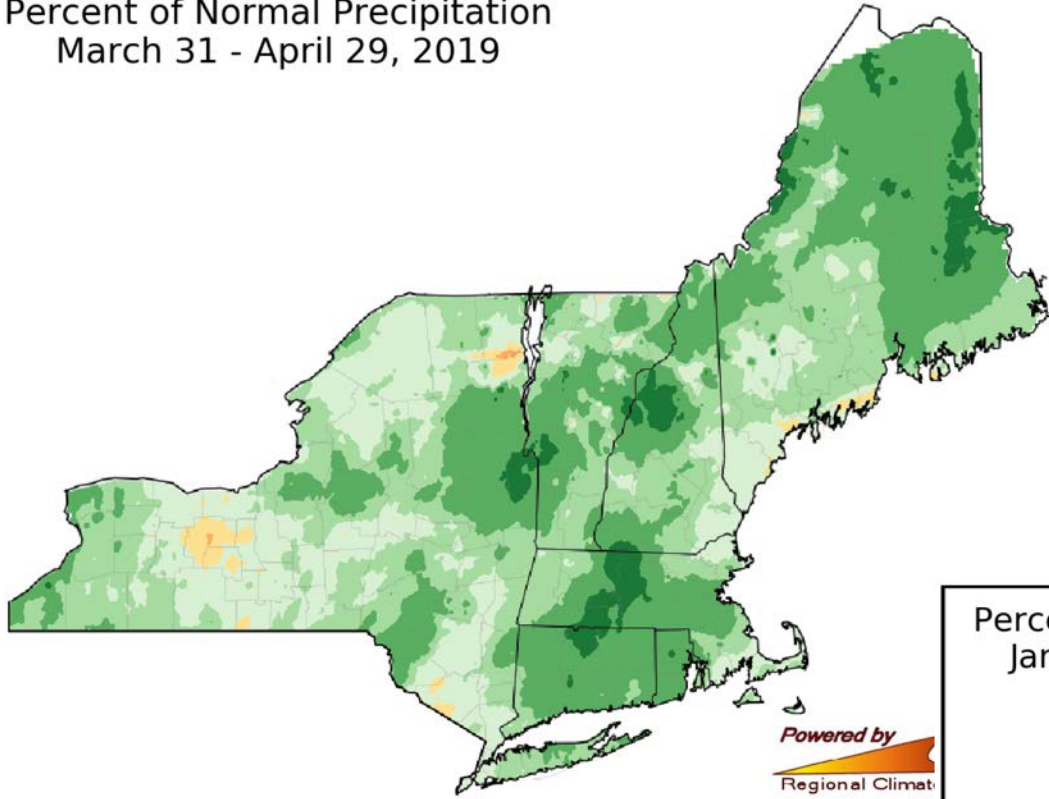
No abnormal dryness or drought as of April 23



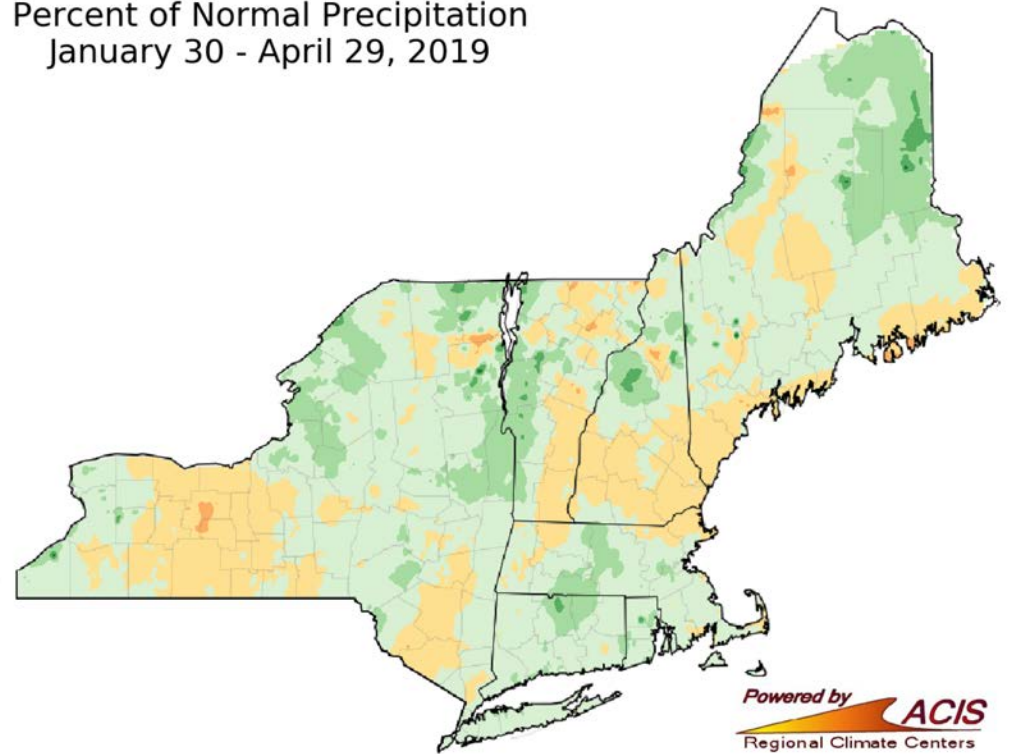
# Total Precipitation (inches) April 24-29, 2019



Percent of Normal Precipitation  
March 31 - April 29, 2019

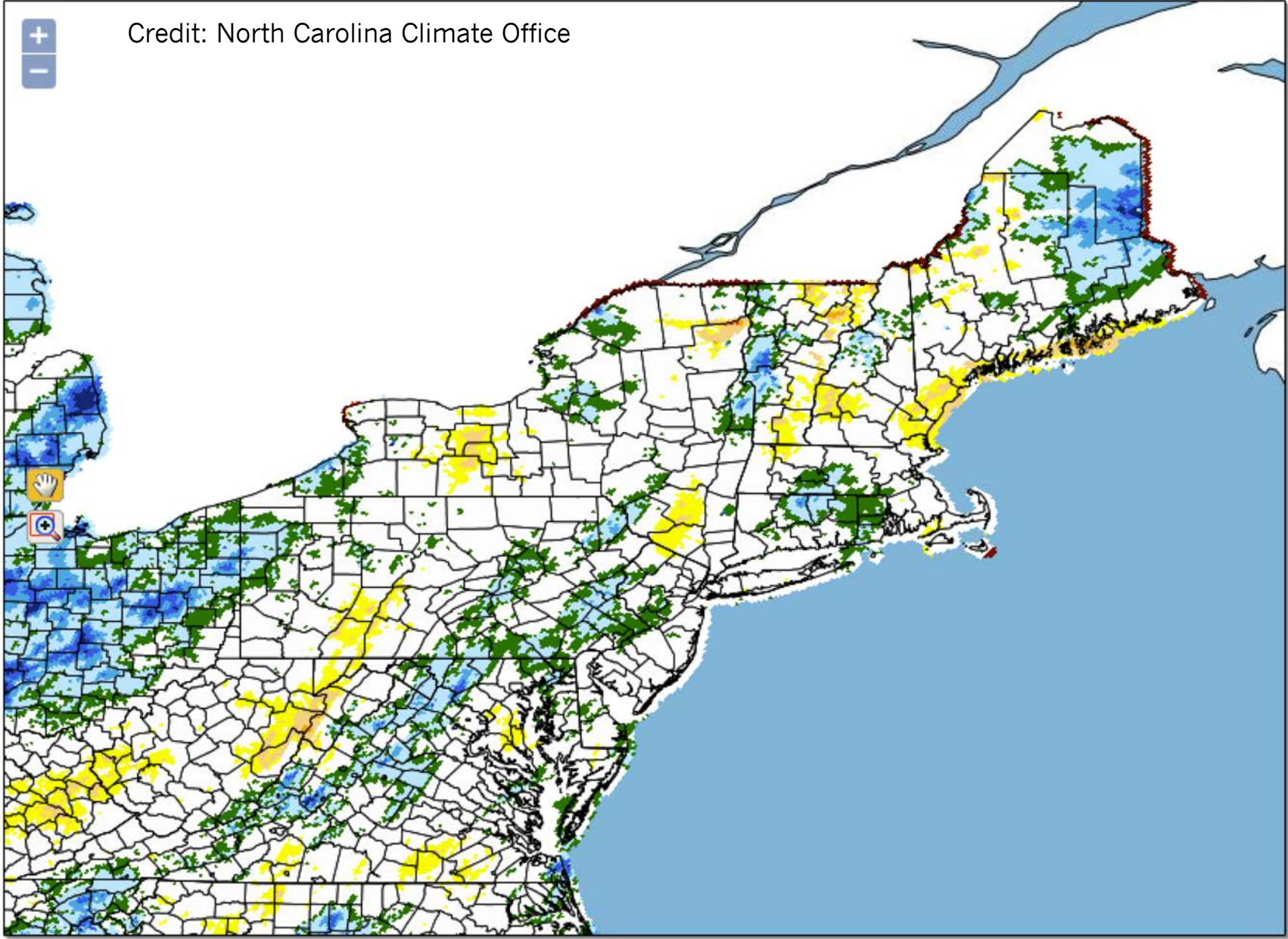


Percent of Normal Precipitation  
January 30 - April 29, 2019





Credit: North Carolina Climate Office



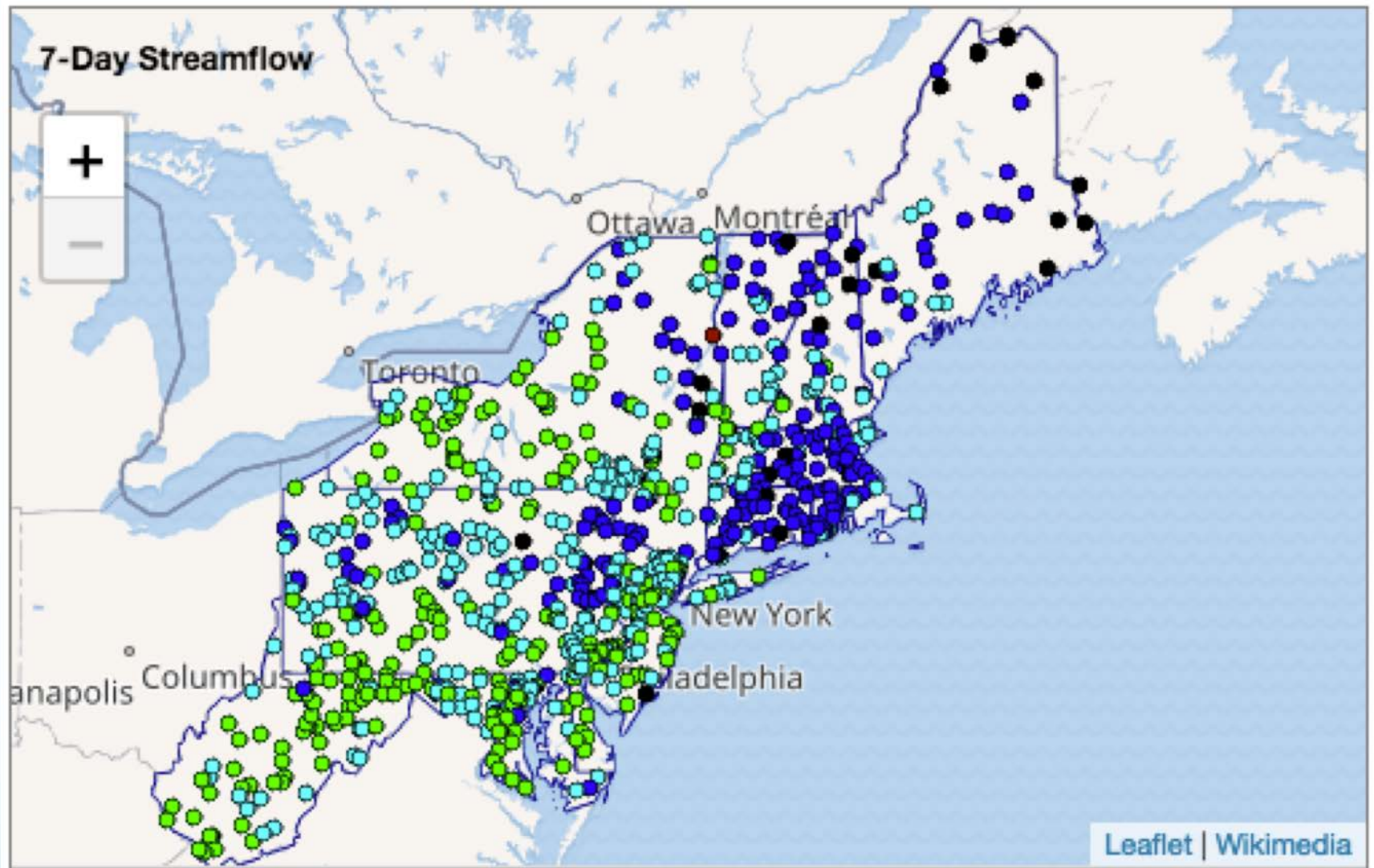
**60 day SPI for April 28, 2019**



Transparency:

DOWNLOAD  
GEOTIFF





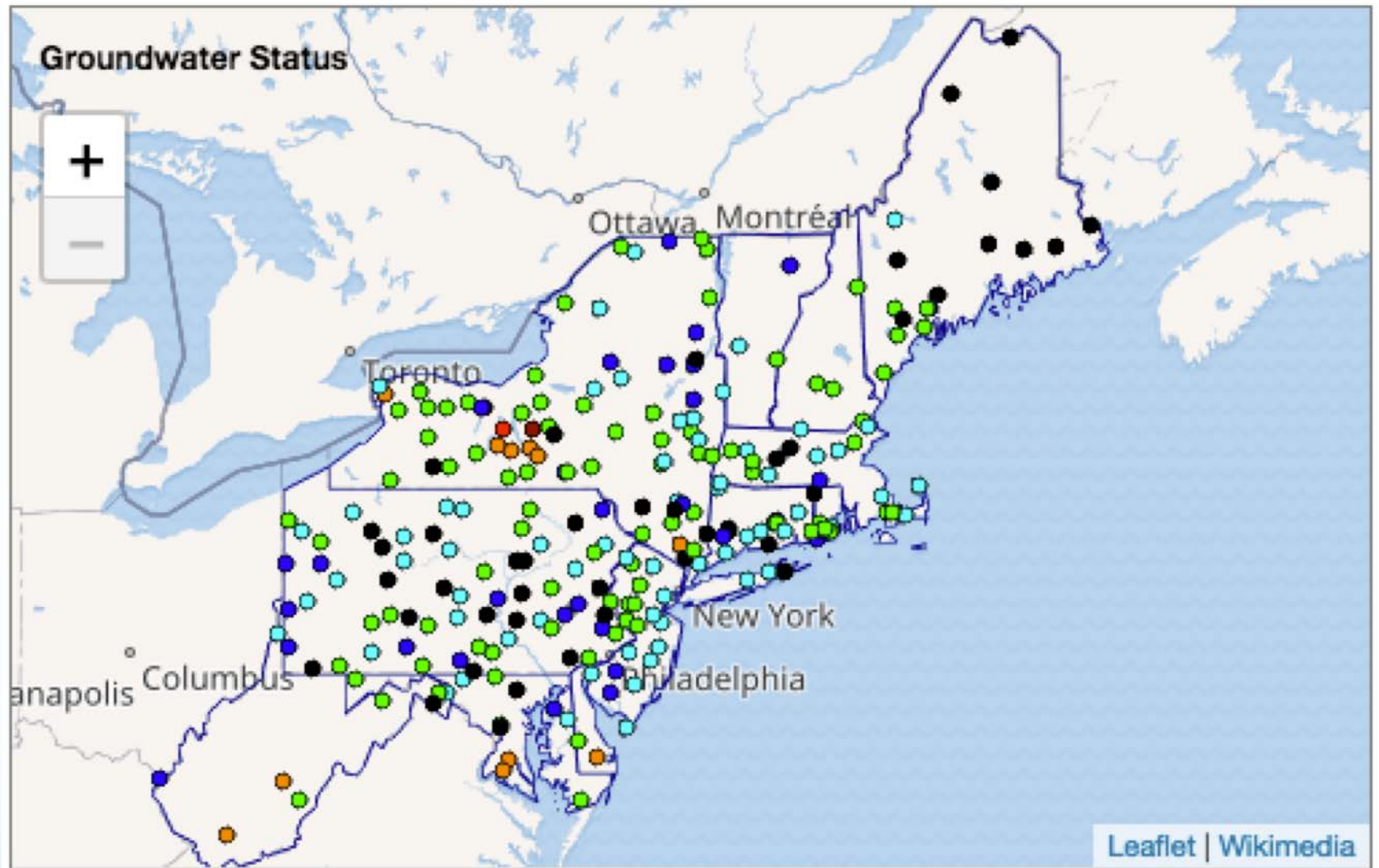
**Explanation - Percentile Classes**

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](#).







**Explanation - Percentile Classes**

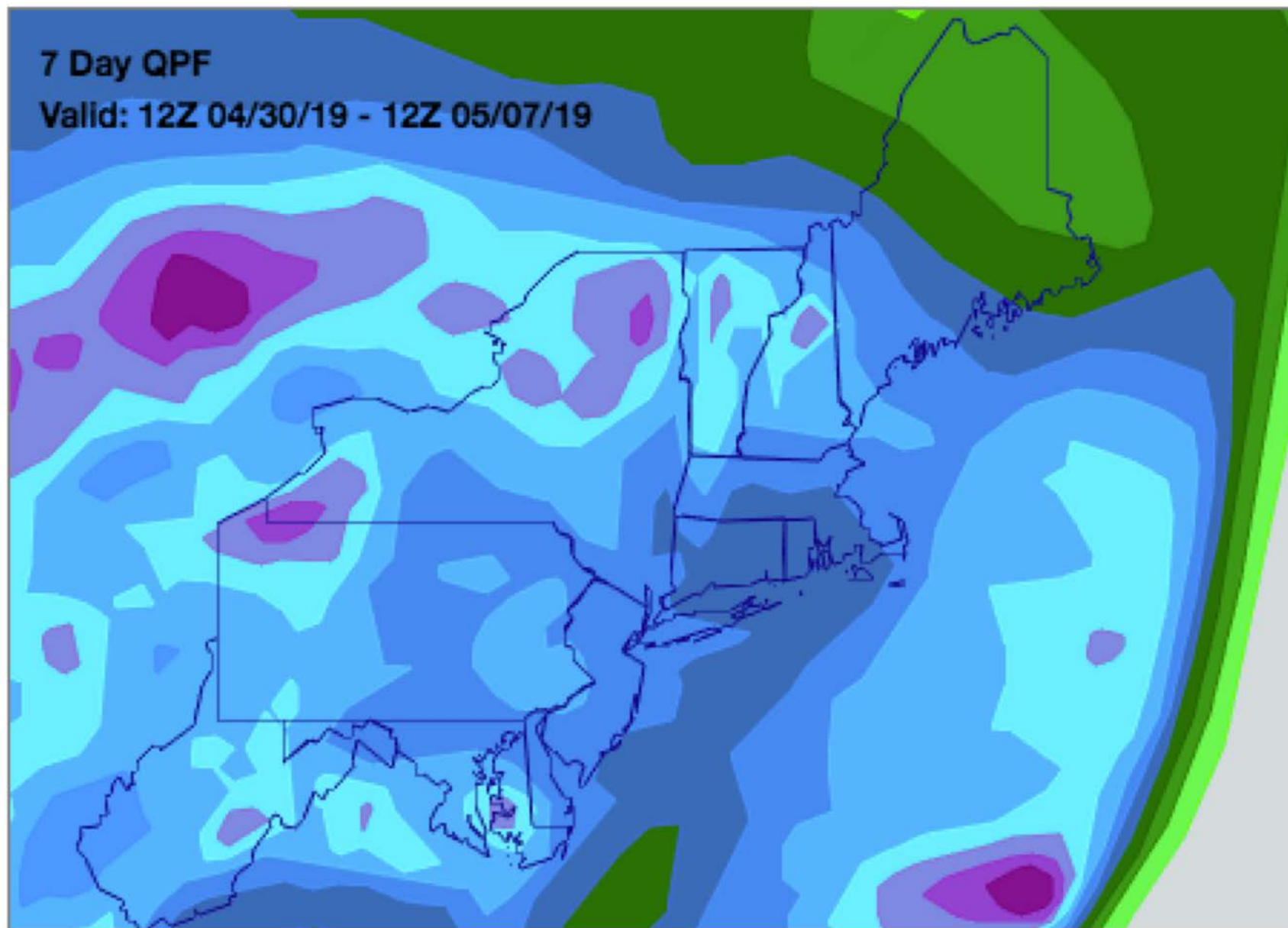
Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High	
	<10%	10-24%	25-75%	76-90%	>90%		

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



# 7 Day QPF

Valid: 12Z 04/30/19 - 12Z 05/07/19



Explanation - Forecast precipitation (inches)

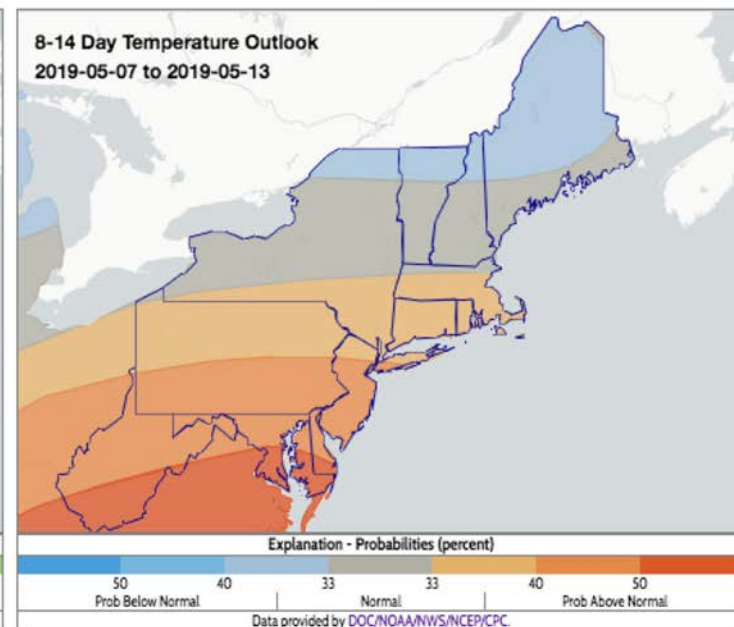
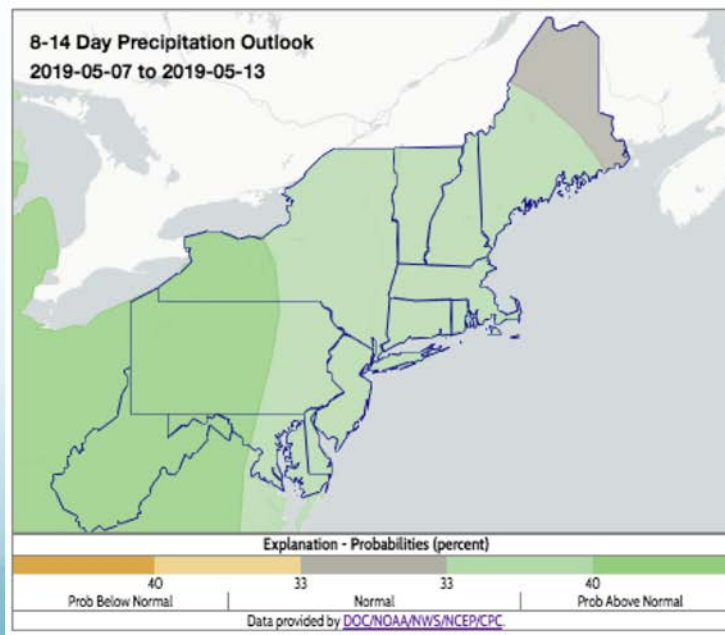
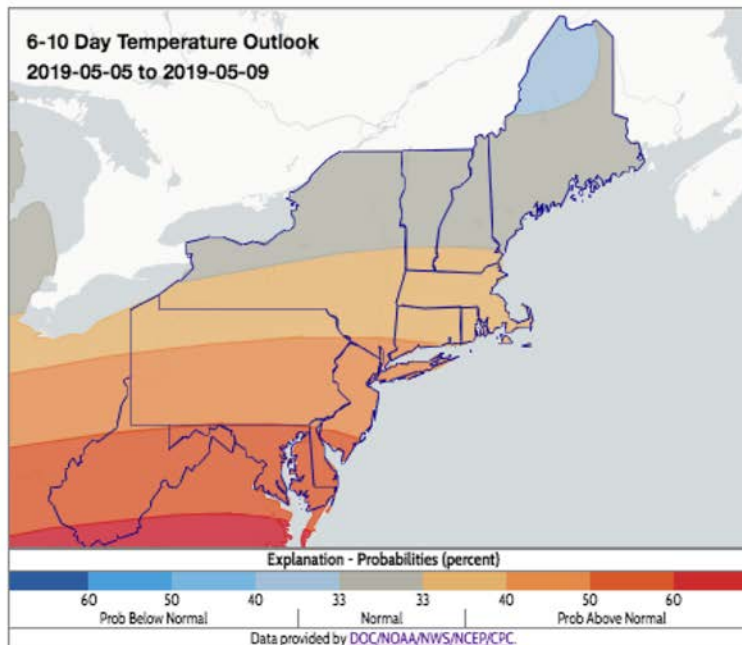
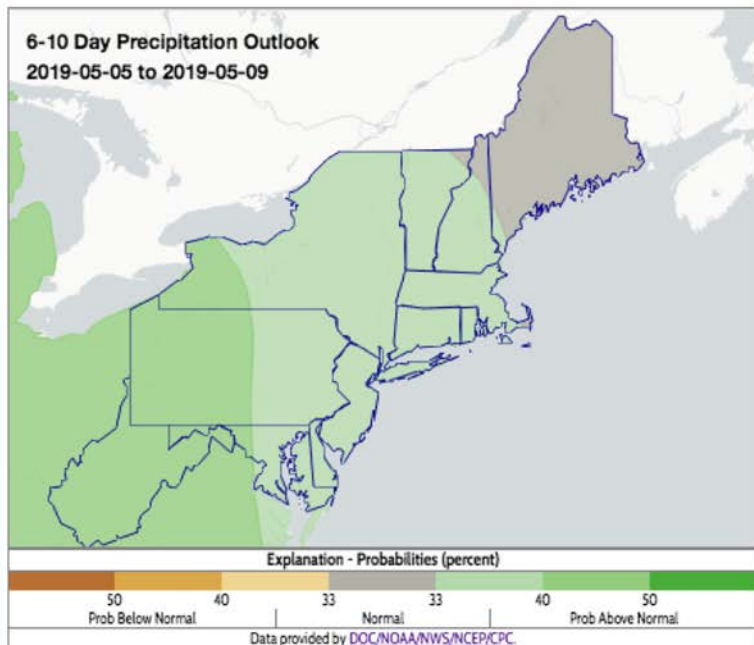


Data provided by [DOC/NOAA/NWS/NCEP/WPC](#)





# Short-term Outlooks



# Contact Information

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

## Upcoming Webinars

- Thursday, May 30 at 9:30 am
  - Heat health and NCA4
- Thursday, June 27 at 9:30 am
  - TBD
- Tuesday, July 30 at 9:30 am
  - TBD

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