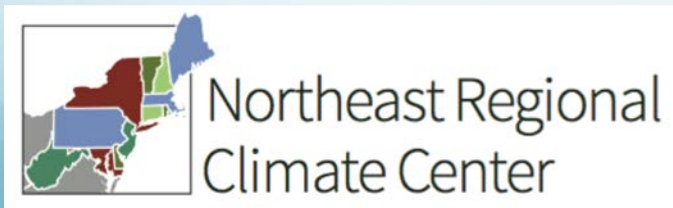
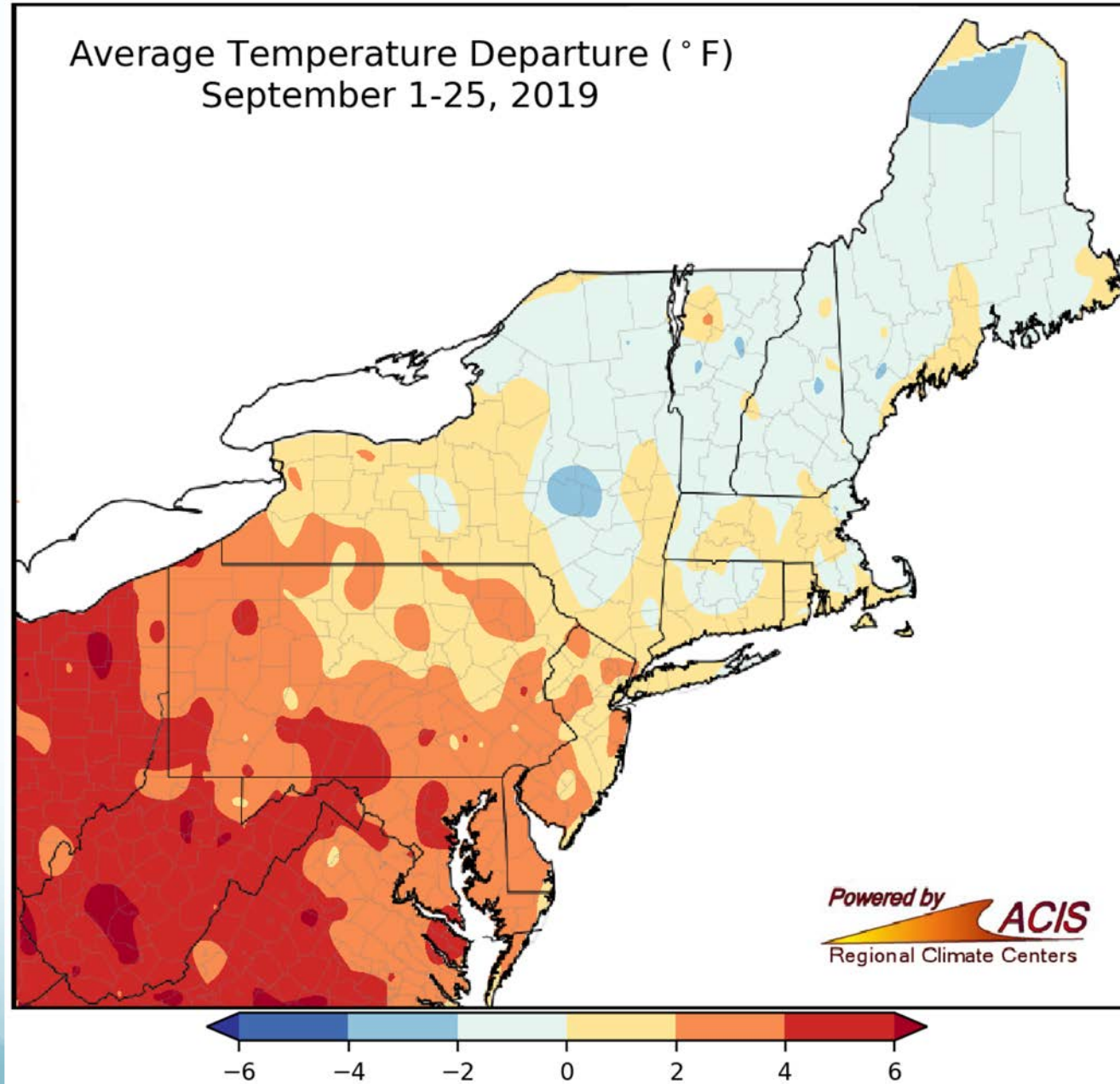


September Overview & Northeast DEWS Discussion

By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



September Temperatures



From 4°F below normal to over 6°F above normal

September Severe Weather

Not much this month – some reports of wind damage, small hail, and flash flooding – mostly in early September

Tornadoes:

- Two –
 - one in New York
 - one in Connecticut
- Northeast's September average is 5

MANORVILLE TORNADO

September 2, 2019



WEATHER.GOV/NYC
@NWSNEWYORKNY

Preliminary survey results

DAMAGE SURVEY

Rating: EF0

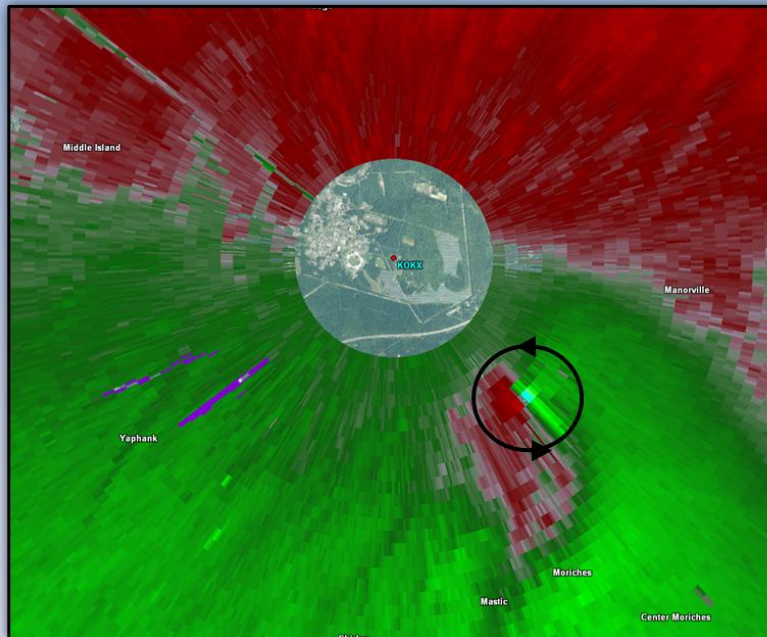
Estimated Peak Winds: 85 mph

Path Length: 1.6 miles

Path Width: 50 yards

Start Time: 4:33 pm **End Time:** 4:38 pm

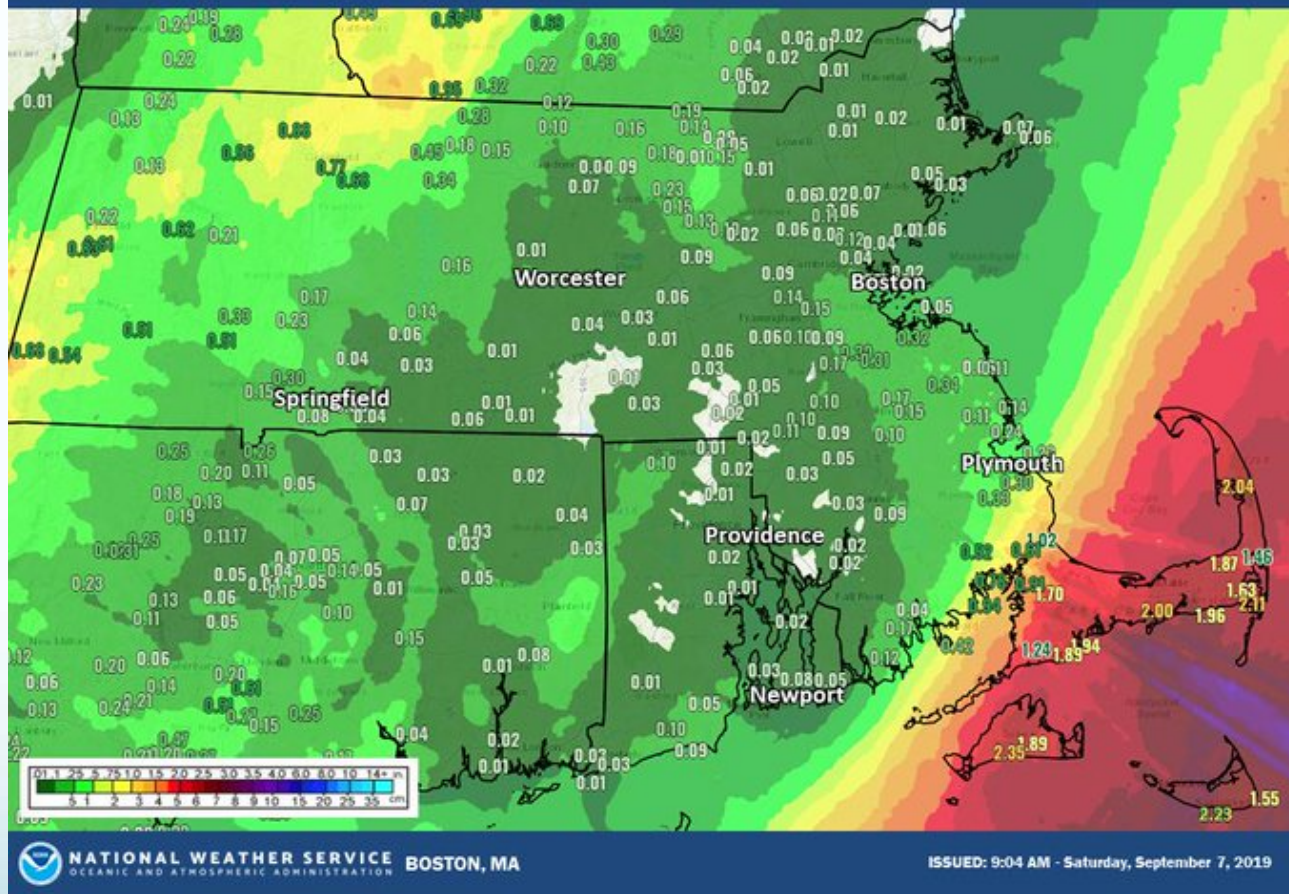
Details: The tornado first touched down on Dayton Street. It sheared large tree limbs and the tops off dozens of oak, maple and pine trees. Several electric poles were also downed. The tornado continued northeast through the south end of Rosewood Street and then across its intersecting cross street of South Street. The tornado then continued northeast through a wooded area crossing the LIE near exit 69 while lifting. The path of damage and debris ended on the service road on the north side of the LIE near the intersection of Wading River Road.



Dorian Skimmed the Northeast

Peak Winds

24 Hour Rainfall Totals

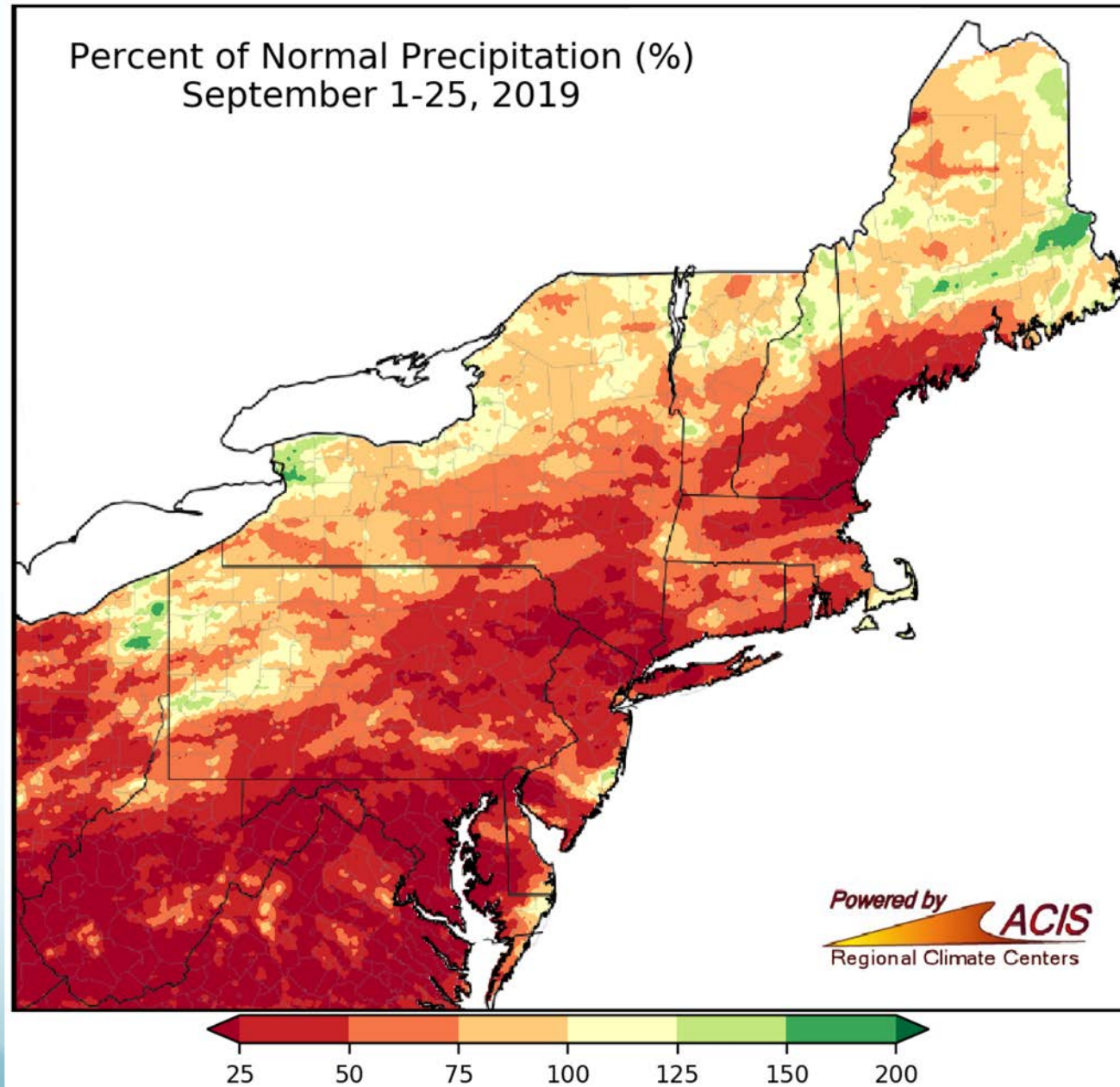


Cape Cod, Martha's Vineyard, and Nantucket received the highest rainfall



...BARNSTABLE COUNTY...			
PROVINCETOWN	63 MPH	0645 AM 09/07	CWOP
WELLFLEET	60 MPH	0602 AM 09/07	CWOP
PROVINCETOWN	56 MPH	0616 AM 09/07	CWOP
SAGAMORE BEACH	51 MPH	0700 AM 09/07	WXFLOW
WELLFLEET	50 MPH	0546 AM 09/07	WXFLOW
CHAPIN	48 MPH	0728 AM 09/07	WXFLOW
CHATHAM	45 MPH	0809 AM 09/07	WXFLOW
KALMUS	45 MPH	0714 AM 09/07	WXFLOW
WEST DENNIS	45 MPH	0358 AM 09/07	WXFLOW
HATCH BEACH	44 MPH	0753 AM 09/07	WXFLOW
ORLEANS	41 MPH	0732 AM 09/07	CWOP
HYANNIS AP	41 MPH	0605 AM 09/07	ASOS
WEST FALMOUTH	40 MPH	0716 AM 09/07	WXFLOW
...DUKES COUNTY...			
VINEYARD STATION	48 MPH	0152 AM 09/07	WXFLOW
MARTHAS VINEYARD AP	44 MPH	0134 AM 09/07	ASOS
...ESSEX COUNTY...			
ROCKPORT	50 MPH	0530 AM 09/07	CWOP
CHILDRENS ISLAND	40 MPH	0333 AM 09/07	WXFLOW
...NANTUCKET COUNTY...			
SIASCONSET	53 MPH	0501 AM 09/07	CWOP
NANTUCKET AP	51 MPH	0736 AM 09/07	ASOS
NANTUCKET	43 MPH	0538 AM 09/07	CWOP
NANTUCKET HARBOR	40 MPH	0540 AM 09/07	WXFLOW
...PLYMOUTH COUNTY...			
DUXBURY	49 MPH	0615 AM 09/07	WXFLOW
PLYMOUTH AP	45 MPH	0640 AM 09/07	ASOS
HULL YC	44 MPH	0724 AM 09/07	WXFLOW
...RHODE ISLAND...			
...WASHINGTON COUNTY...			
CHARLESTOWN	58 MPH	0502 AM 09/07	CWOP
BLOCK ISLAND JETTY	45 MPH	0611 AM 09/07	WXFLOW
URI	42 MPH	0224 AM 09/07	WXFLOW
...MASSACHUSETTS...			
...MARITIME STATIONS...			
BUOY 44008 -70MI SE OF ACK	81 MPH	0610 AM 09/07	NDBC
BUOY 44020 -15MI S OF HYA	52 MPH	0210 AM 09/07	NDBC
DUXBURY	48 MPH	0650 AM 09/07	CWOP
SCITUATE	47 MPH	0650 AM 09/07	WXFLOW
WOODS HOLE	44 MPH	0717 AM 09/07	CWOP
11 NNE SCITUATE	43 MPH	0750 AM 09/07	NDBC
10 NNE PROVINCETOWN	43 MPH	0650 AM 09/07	NDBC
7 SE GLOUCESTER	43 MPH	0704 AM 09/07	NDBC
NANTUCKET	43 MPH	0512 AM 09/07	NOS-NW/LON
DOG BAR BREAKWATER	43 MPH	0601 AM 09/07	WXFLOW
WOODS HOLE	43 MPH	0732 AM 09/07	WXFLOW
WEST ISLAND	42 MPH	0130 AM 09/07	WXFLOW
...RHODE ISLAND...			
HALFWAY ROCK	47 MPH	0546 AM 09/07	WXFLOW
9 SE LITTLE COMPTON	44 MPH	0500 AM 09/07	NDBC
POINT JUDITH	44 MPH	0423 AM 09/07	WXFLOW
SABIN POINT	44 MPH	0428 AM 09/07	WXFLOW
CONIMICUT LIGHT	43 MPH	0530 AM 09/07	NOS-PORTS
&&			

September Precipitation



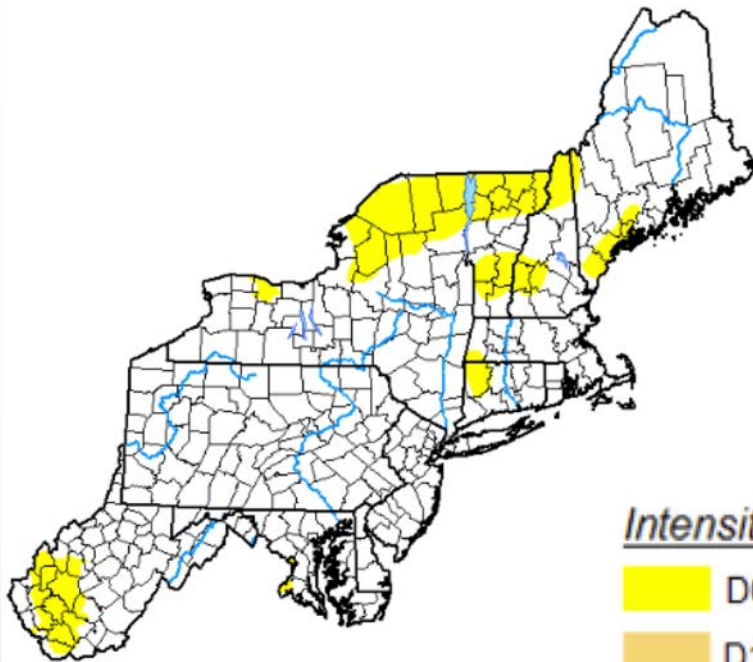
From less than 25% of normal to over 150% of normal

Drought Monitor

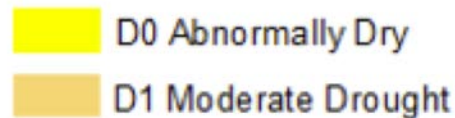
August 27, 2019

(Released Thursday, Aug. 29, 2019)

Valid 8 a.m. EDT



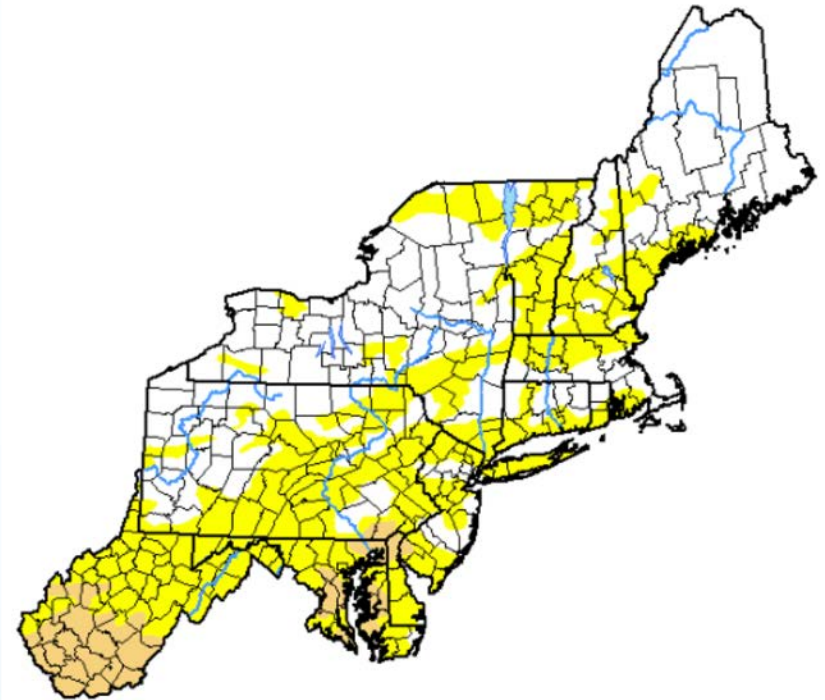
Intensity:



September 24, 2019

(Released Thursday, Sep. 26, 2019)

Valid 8 a.m. EDT



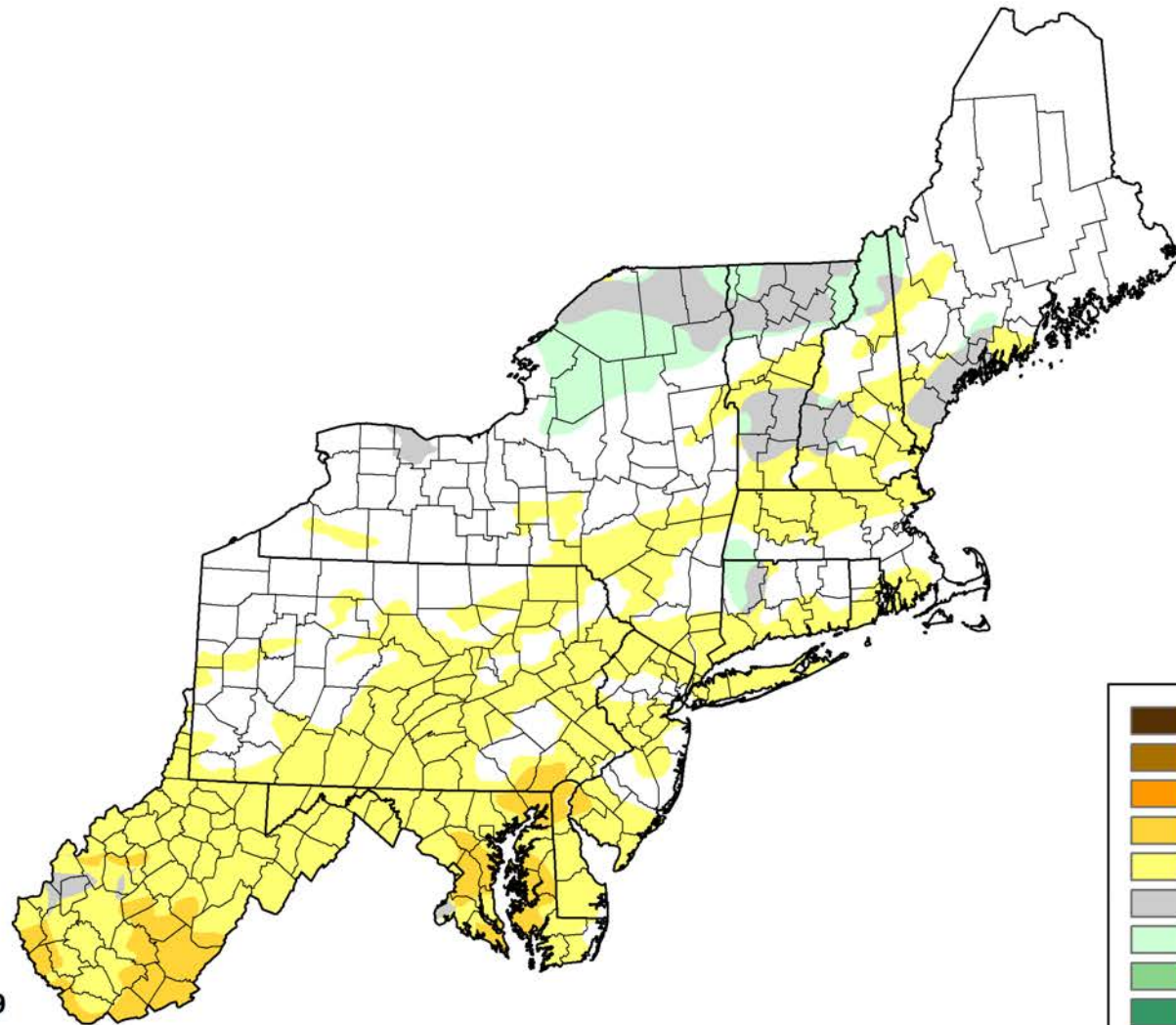
At the end of August, 14% of the region was abnormally dry and no drought conditions

By the end of September, 43% was abnormally dry and 7% was in moderate drought



Change Map

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



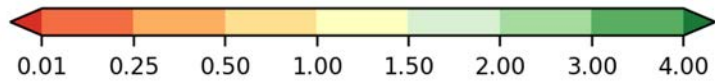
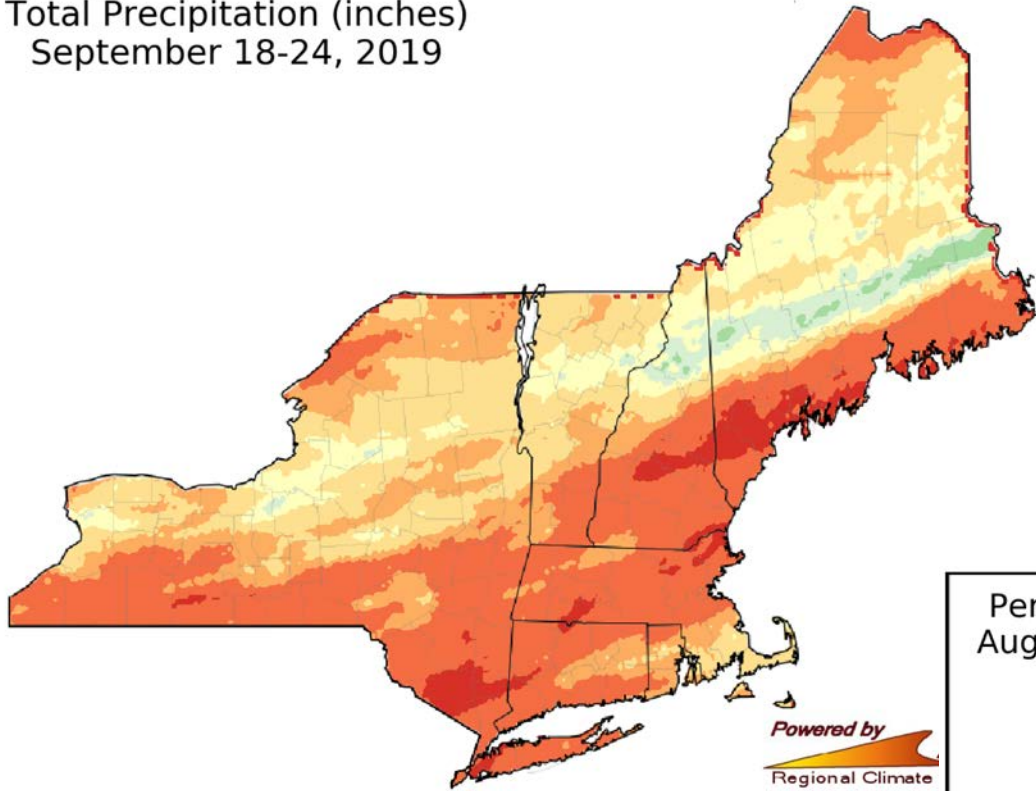
- 5 Class Degradation
- 4 Class Degradation
- 3 Class Degradation
- 2 Class Degradation
- 1 Class Degradation
- No Change
- 1 Class Improvement
- 2 Class Improvement
- 3 Class Improvement
- 4 Class Improvement
- 5 Class Improvement

September 24, 2019
compared to
August 27, 2019

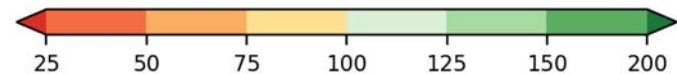
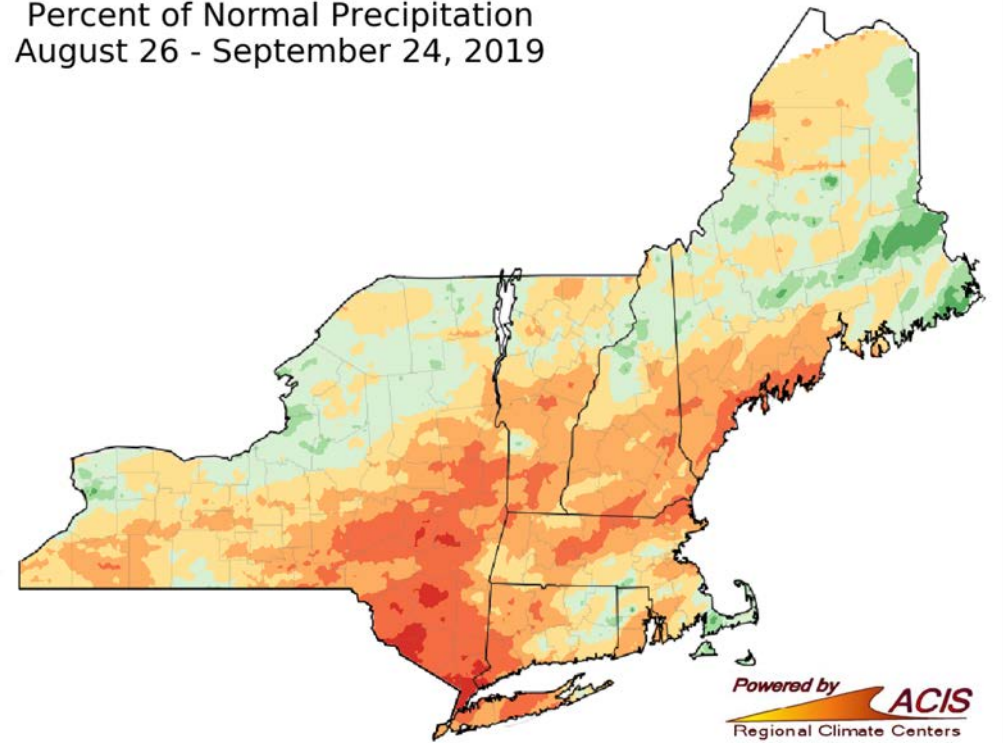
droughtmonitor.unl.edu



Total Precipitation (inches)
September 18-24, 2019

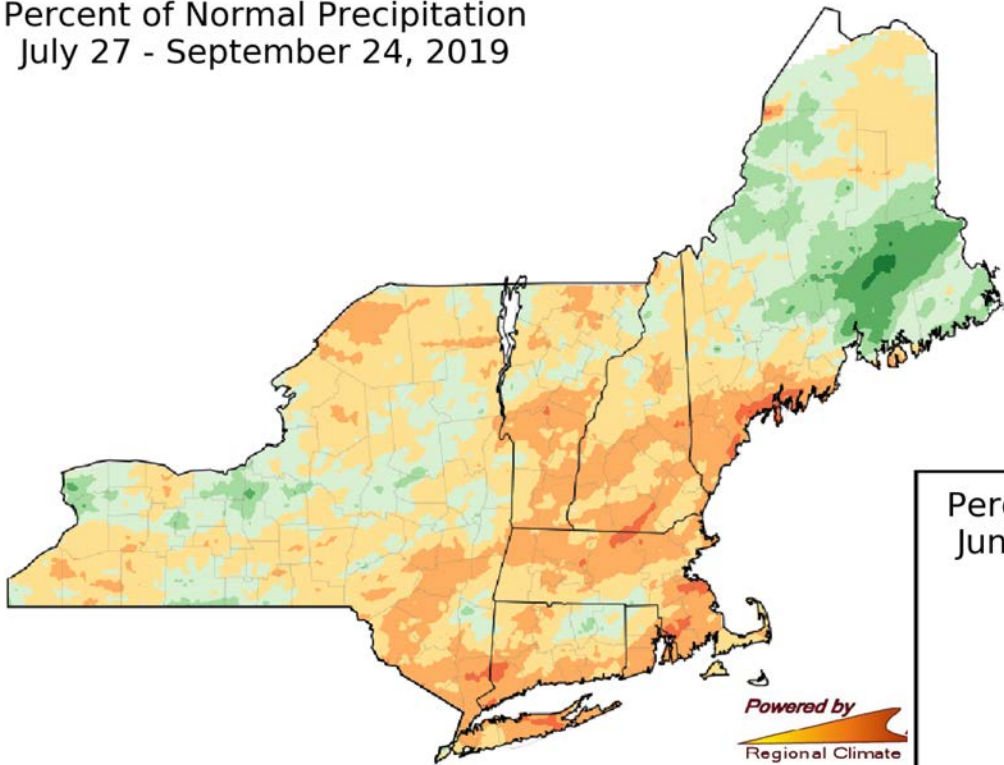


Percent of Normal Precipitation
August 26 - September 24, 2019

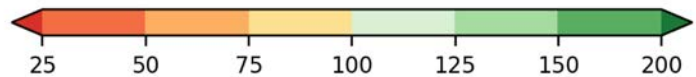
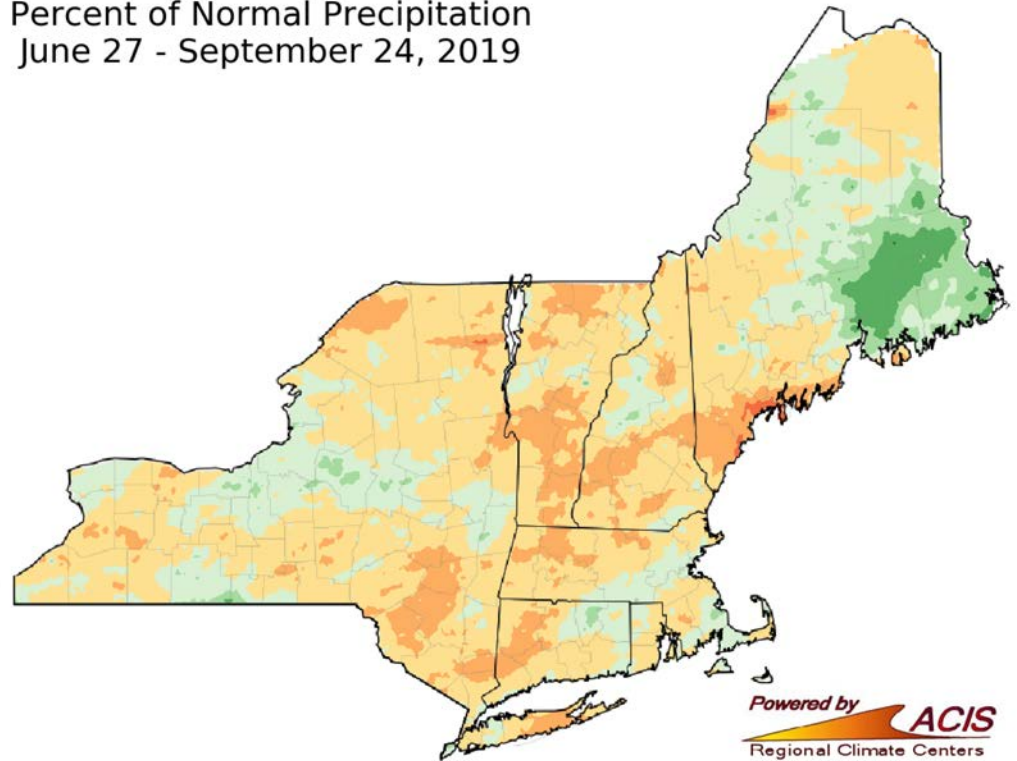


Percent of Normal Precipitation

Percent of Normal Precipitation
July 27 - September 24, 2019

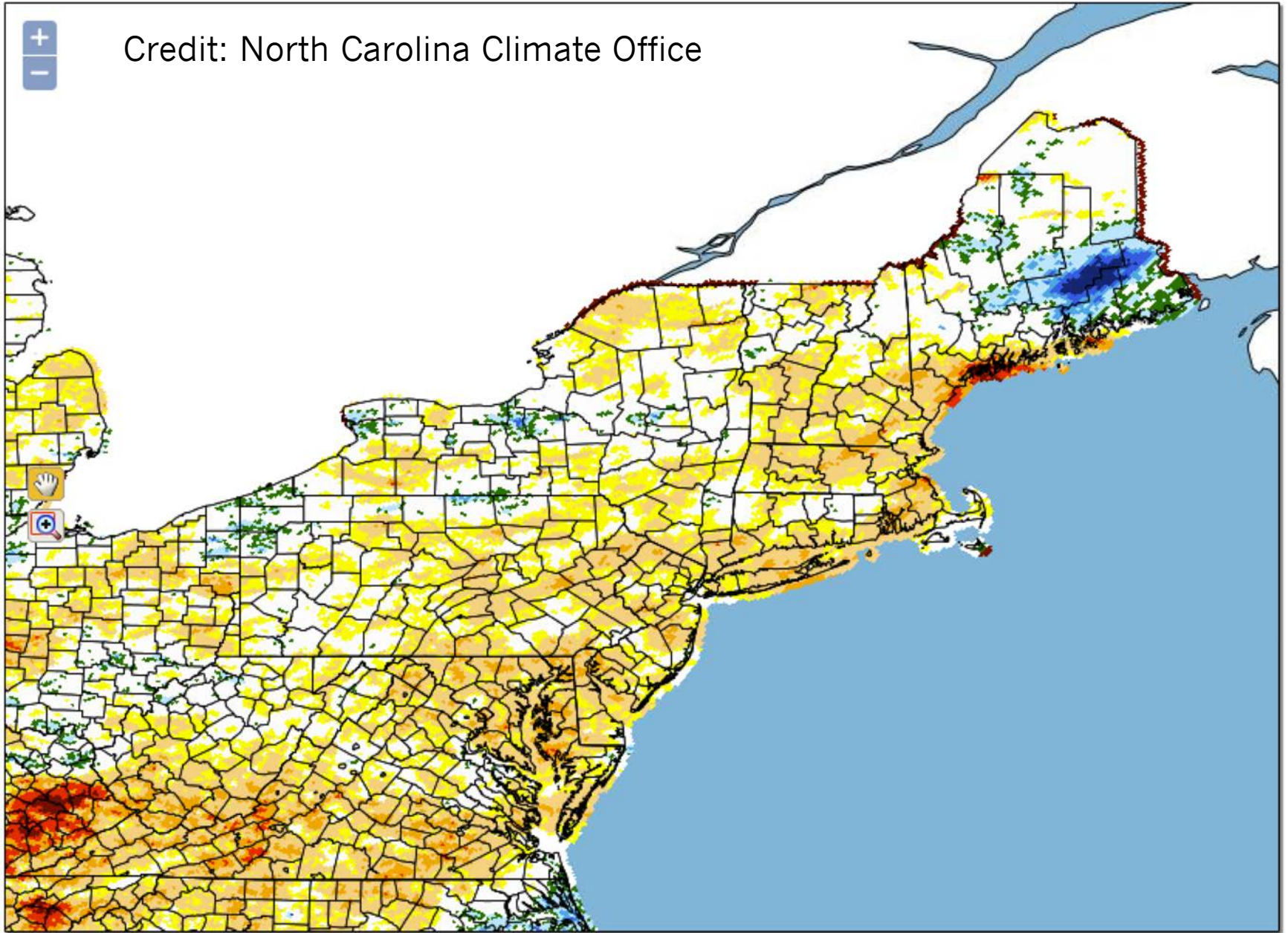


Percent of Normal Precipitation
June 27 - September 24, 2019





Credit: North Carolina Climate Office



60 day SPI for September 25, 2019

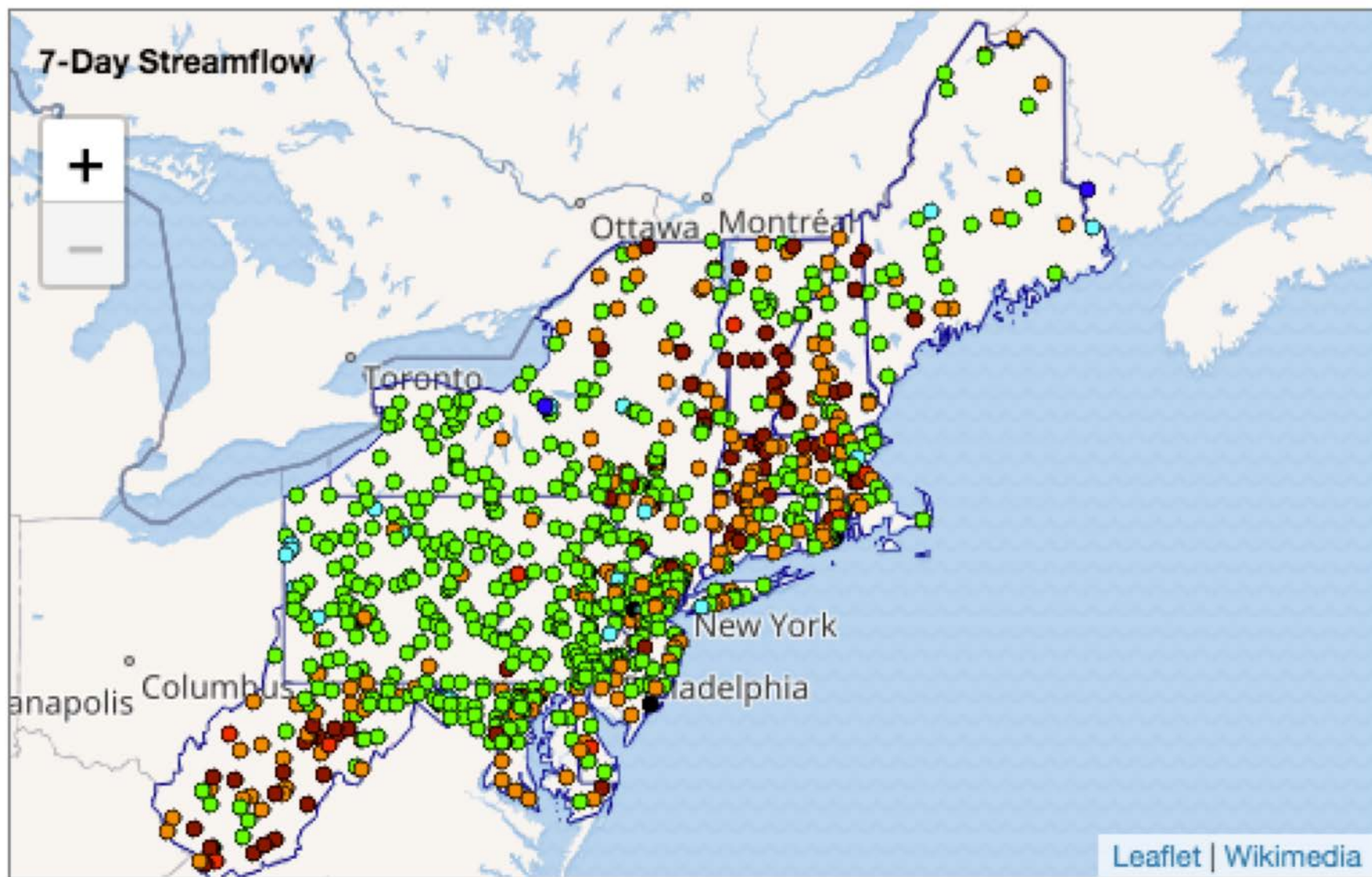


Transparency:



DOWNLOAD
GEOTIFF



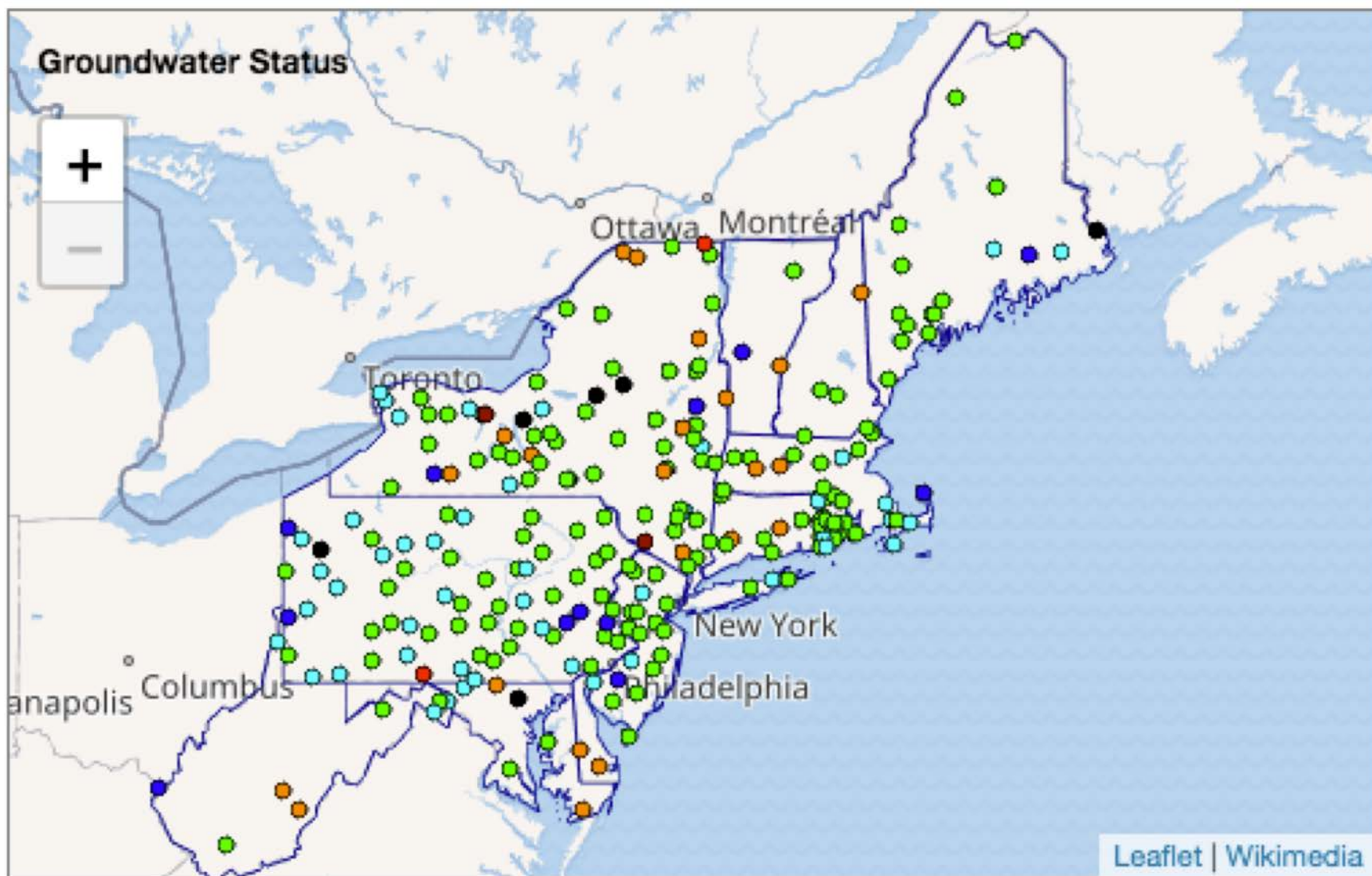


Explanation - Percentile Classes

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

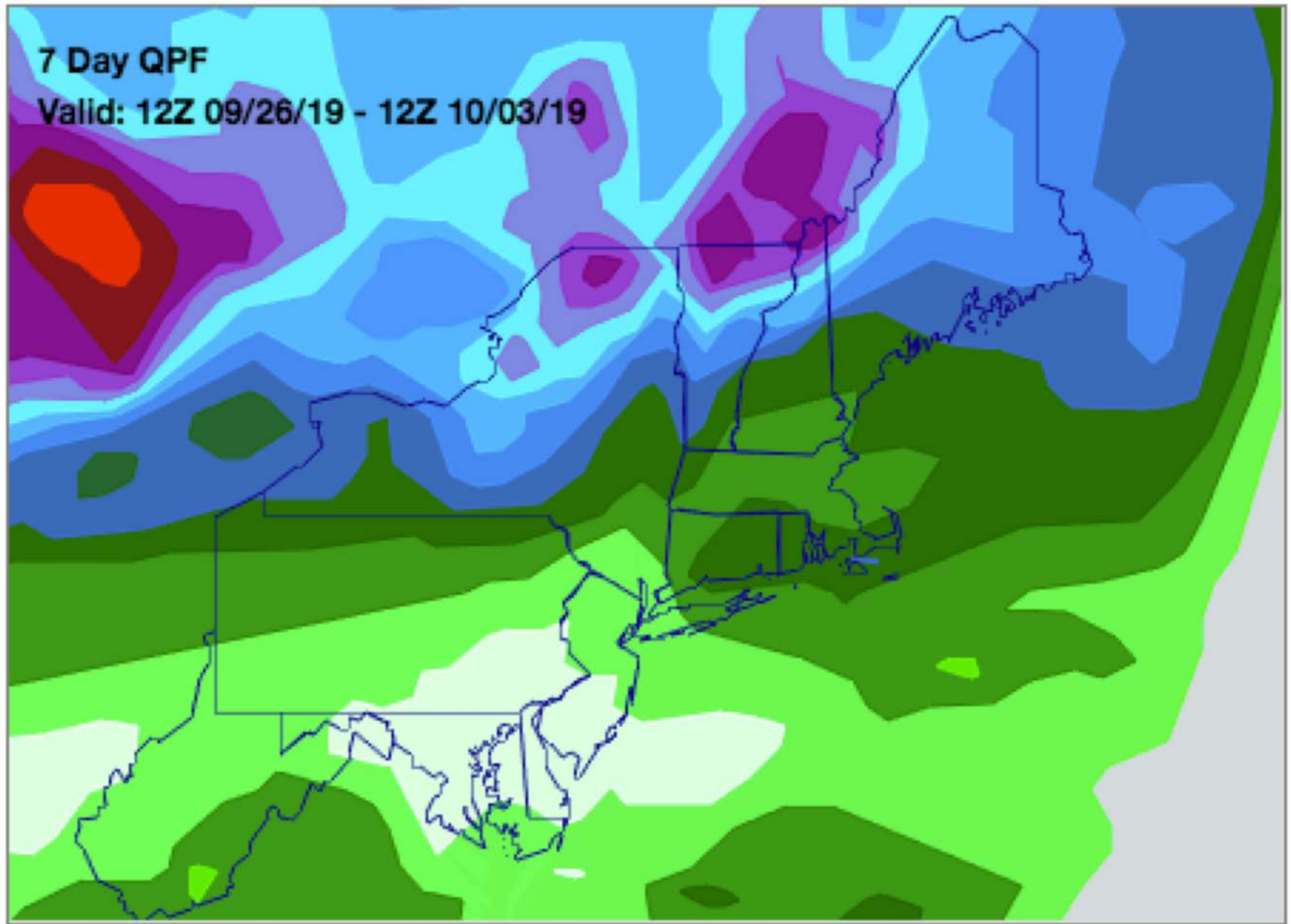
Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High	
	<10%	10-24%	25-75%	76-90%	>90%		

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

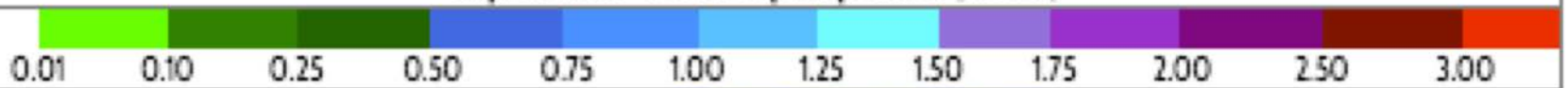


7 Day QPF

Valid: 12Z 09/26/19 - 12Z 10/03/19



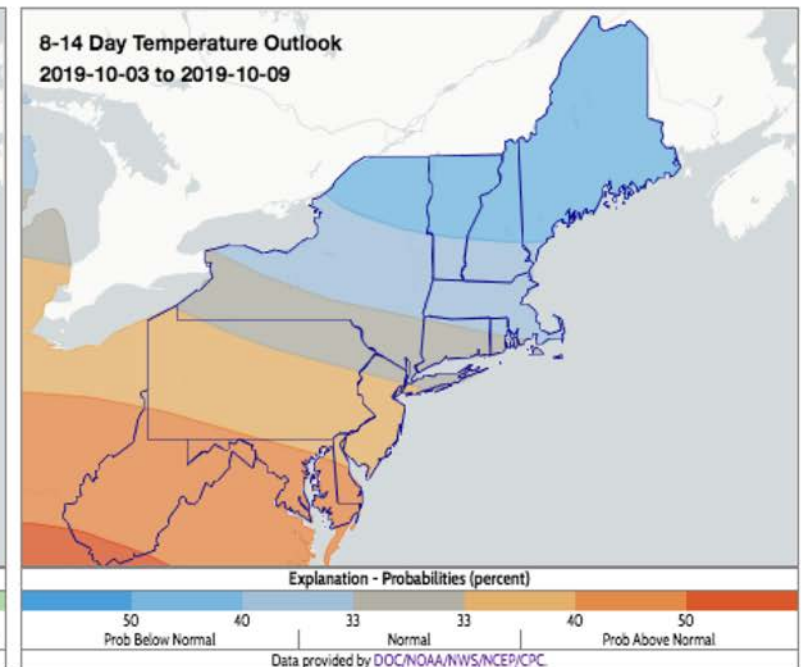
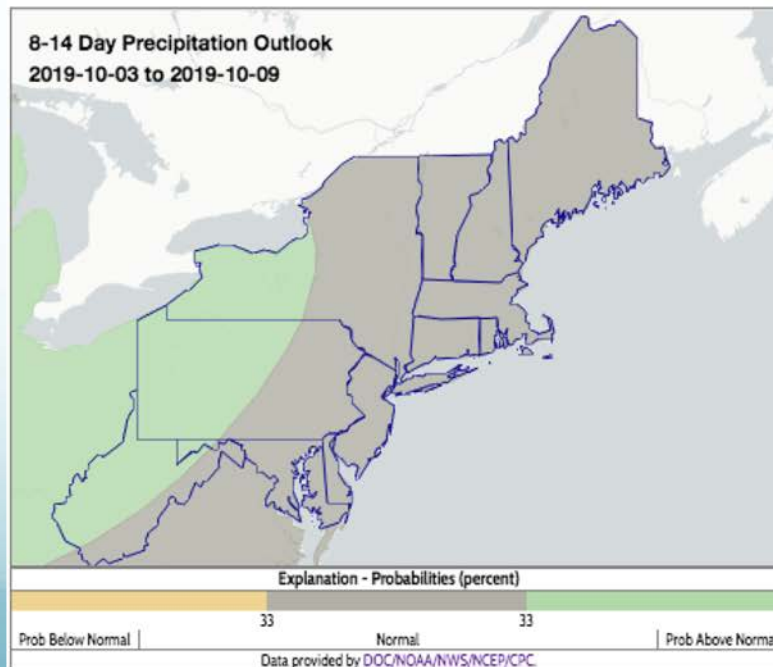
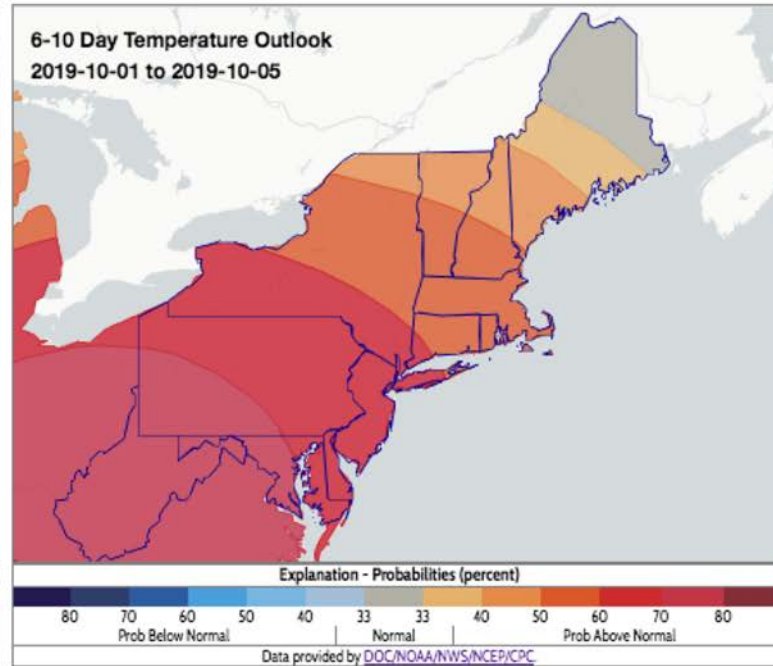
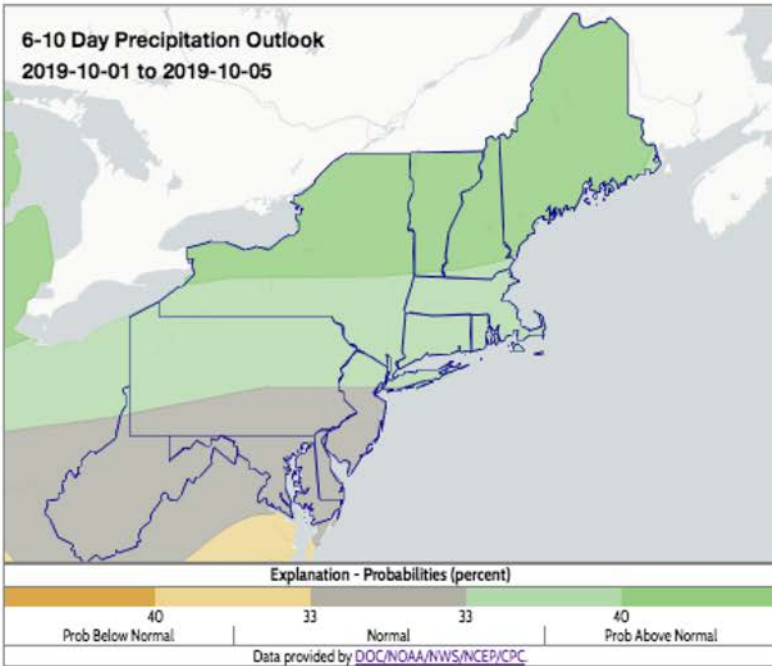
Explanation - Forecast precipitation (inches)



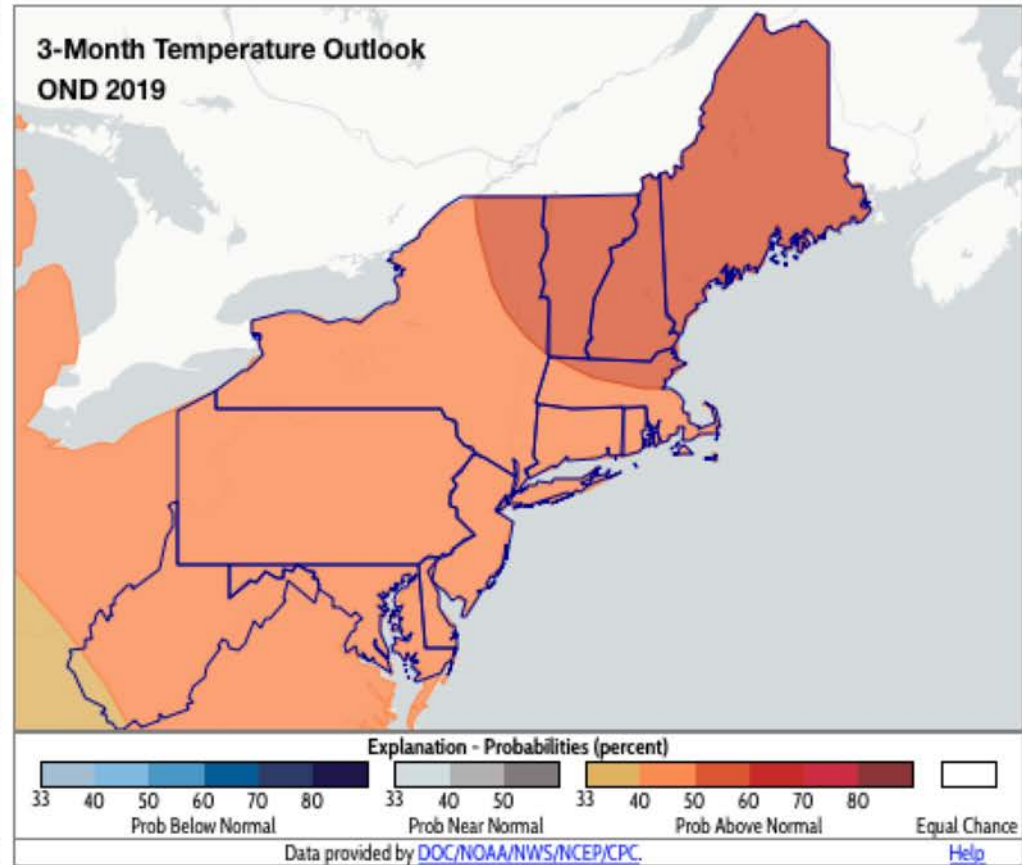
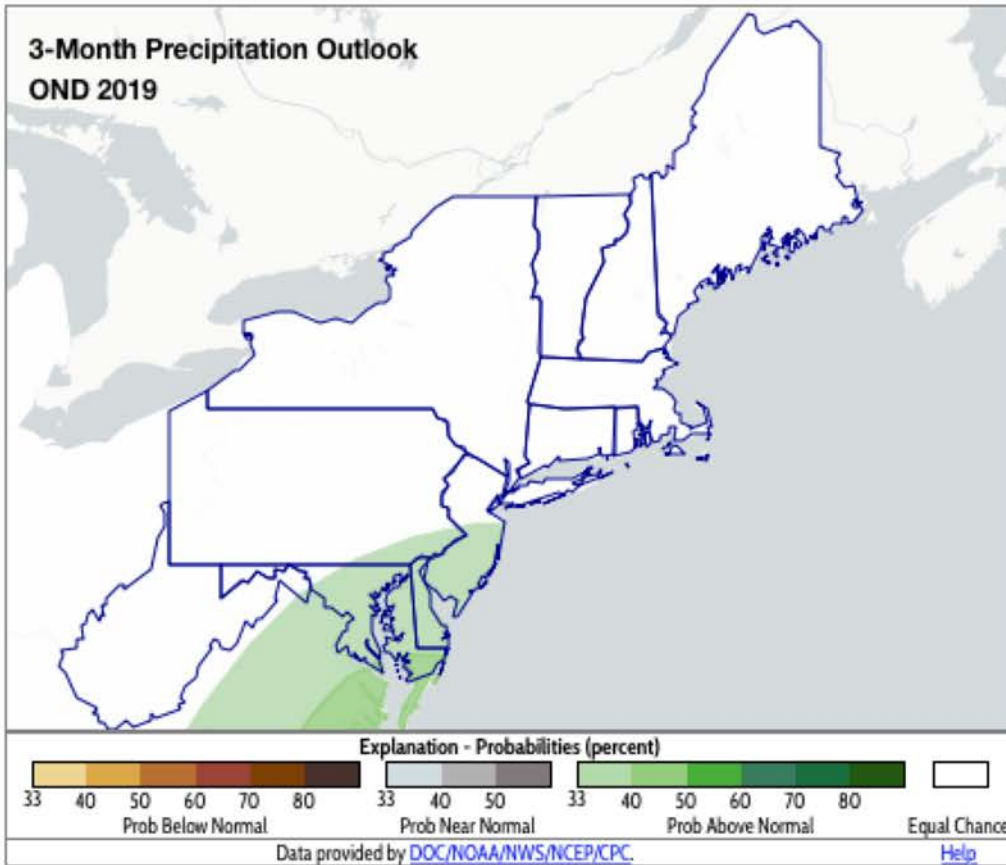
Data provided by [DOC/NOAA/NWS/NCEP/WPC](#).



Short-term Outlooks



Long-term Outlooks



Contact Information

- nrcc@cornell.edu
- 607-255-1751

Upcoming Webinars

- Thursday, October 31 at 9:30am
 - Report Out on our Special Extreme Precip Webinar Series & Regional Workshop
- Tuesday, November 26 at 9:30am
 - ENSO Update and Winter Outlook
- Thursday, December 19 at 9:30am
 - Delaware State Climate Team



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