

# November Recap & Northeast DEWS Discussion

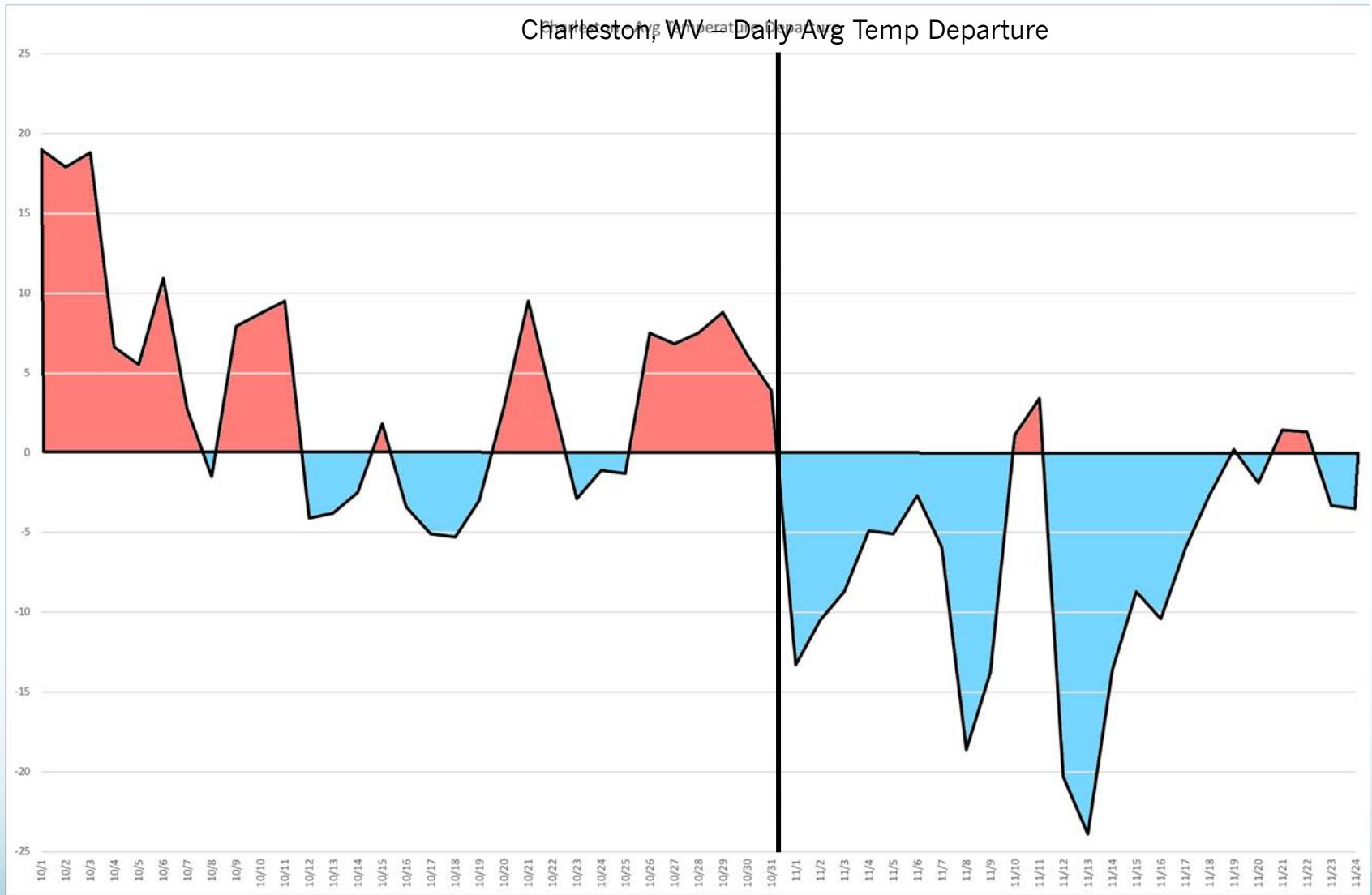
By: Samantha Borisoff, Climatologist  
Northeast Regional Climate Center



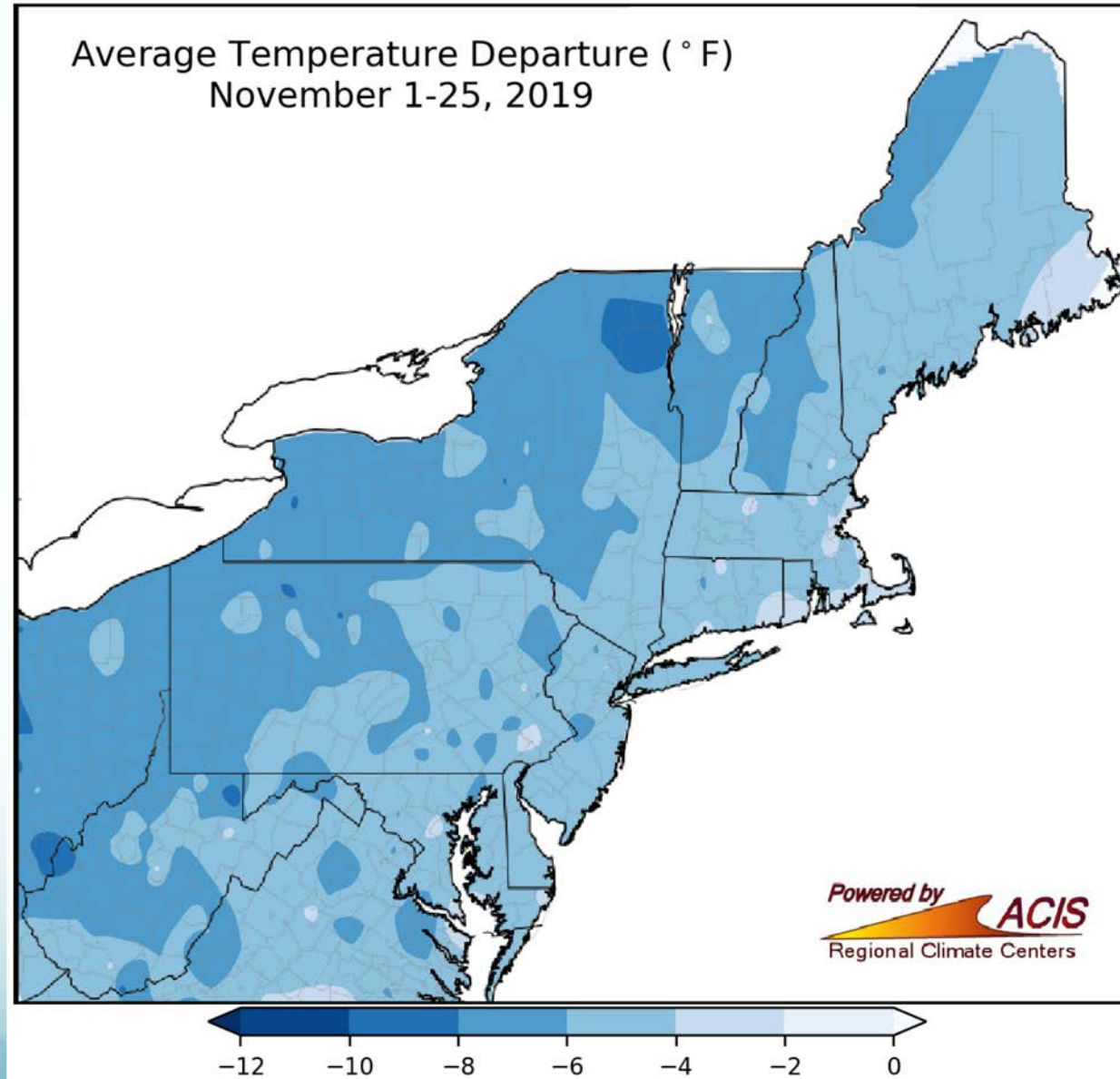
Northeast Regional  
Climate Center



# Oct to Nov Pattern Shift



# November Temperatures



As much as 10°F below normal

# November Temperatures

## Maximum 1-Day Mean Max Temperature for Caribou Area, ME (ThreadEx)

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

Rank	Value	Ending Date
1	68.0	2019-11-01
-	68.0	1956-11-01
3	67.0	1982-11-05
-	67.0	1953-11-20
5	66.0	2003-11-01
-	66.0	2002-11-11
-	66.0	1982-11-04
8	64.0	2008-11-16
-	64.0	2008-11-05
-	64.0	2006-11-17
Last value also occurred in one or more previous years.		
Period of record: 1939-01-16 to 2019-11-21		

## Minimum 1-Day Mean Min Temperature for WATERTOWN AP, NY

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

Rank	Value	Ending Date
1	-7.0	2019-11-13
-	-7.0	2018-11-23
-	-7.0	2018-11-22
4	-3.0	1996-11-28
5	-2.0	2000-11-24
-	-2.0	2000-11-23
-	-2.0	1956-11-24
8	0.0	1996-11-27
9	1.0	2013-11-30
-	1.0	1974-11-29
Period of record: 1949-05-04 to 2019-11-21		

PUBLIC INFORMATION STATEMENT...CORRECTED  
NATIONAL WEATHER SERVICE CARIBOU ME  
851 AM EST MON NOV 18 2019

...RECORD BREAKING EARLY SEASON COLD SNAP IN CARIBOU...

CARIBOU HAS SET A RECORD LOW TEMPERATURE THE LAST 3 MORNINGS:

- \* NOV 16: 8F (OLD RECORD 10F IN 1985)
- \* NOV 17: -1F (OLD RECORD 4F IN 1943)
- \* NOV 18: 0F (OLD RECORD 3F IN 1943)

THE -1F IN CARIBOU ON NOV 17 WAS THE EARLIEST 0F OR COLDER READING ON RECORD. THE PREVIOUS RECORD EARLIEST WAS NOV 21 WITH -1F.

ALSO, THE 2 DAYS STRAIGHT OF 0F OR COLDER IN CARIBOU ON NOV 17-18 WAS EASILY THE EARLIEST 2 DAYS STRAIGHT OF 0F OR COLDER ON RECORD. THE PREVIOUS RECORD EARLIEST WAS NOV 30-DEC 1 (1941).



# First Frost

Warm October led to a late first frost for many sites

This year's first frost was among the 10 latest on record for Albany, Hartford, Syracuse, Beckley, Dulles, Allentown, and Williamsport

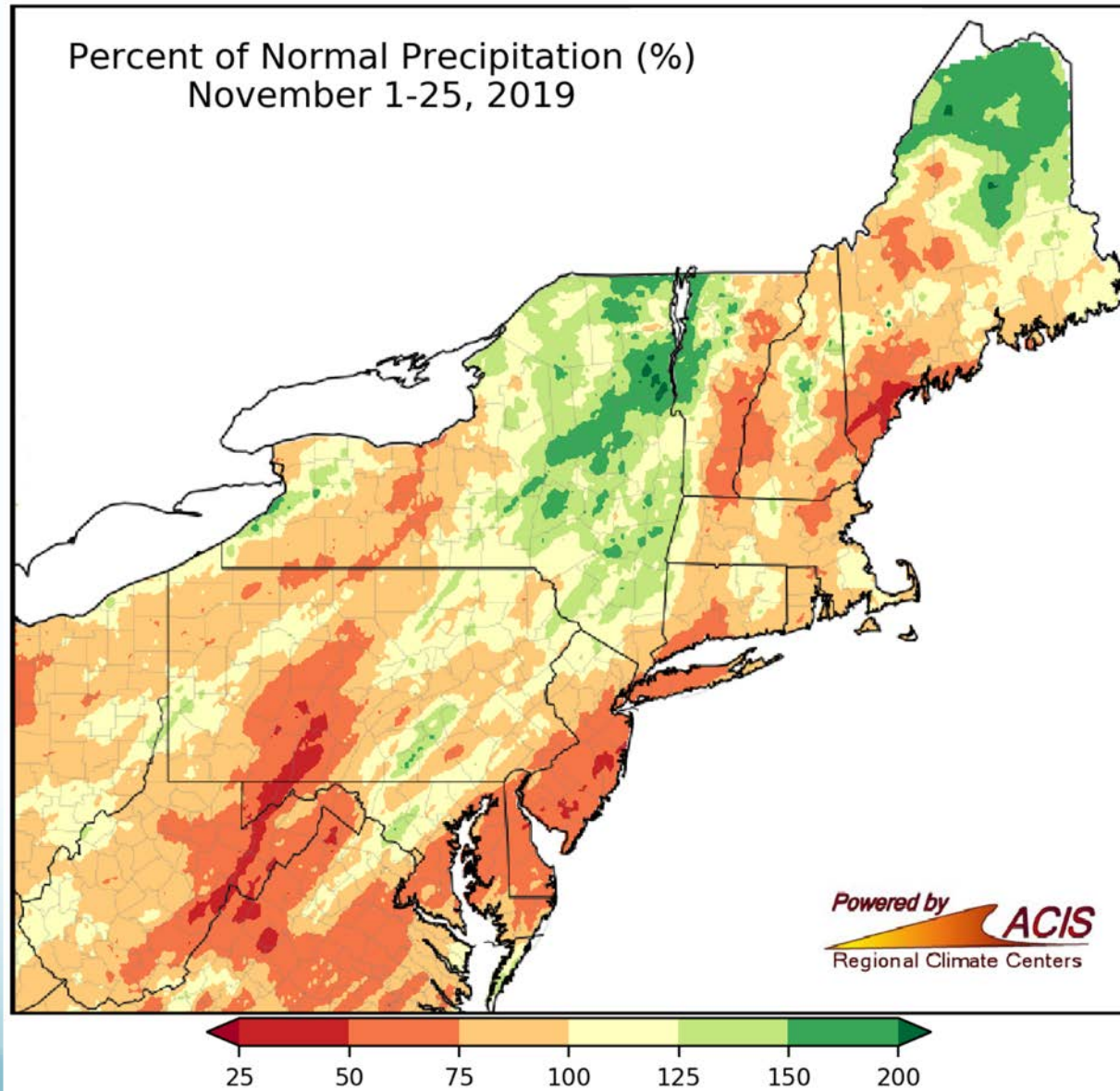
First frost was earlier than usual for DC and NYC

Tied as 8<sup>th</sup> earliest at LaGuardia

Location	Average Date of First Frost (based on 1981-2010)	This Year	Earliest	Latest
Caribou, ME	Sep. 23	Sep. 18	Sep. 3	Oct. 17
Concord, NH	Sep. 27	Oct. 5	Aug. 29	Oct. 25
Elkins, WV	Oct. 6	Oct. 14	Sep. 14	Nov. 2
Burlington, VT	Oct. 7	Oct. 5	Sep. 13	Nov. 1
Albany, NY	Oct. 8	Nov. 3	Sep. 14	Nov. 12
Portland, ME	Oct. 8	Oct. 5	Sep. 14	Nov. 11
Binghamton, NY	Oct. 9	Oct. 5	Sep. 20	Nov. 5
Hartford, CT	Oct. 11	Nov. 2	Sep. 20	Nov. 11
Syracuse, NY	Oct. 12	Nov. 4	Sep. 13	Nov. 13
Beckley, WV	Oct. 13	Oct. 31	Sep. 4	Nov. 12
Rochester, NY	Oct. 14	Nov. 4	Sep. 17	Nov. 14
Scranton, PA	Oct. 14	Oct. 19	Sep. 21	Nov. 15
Dulles Ap, VA	Oct. 15	Nov. 2	Sep. 24	Nov. 11
Allentown, PA	Oct. 16	Nov. 2	Sep. 24	Nov. 13
Williamsport, PA	Oct. 16	Nov. 2	Sep. 22	Nov. 17
Worcester, MA	Oct. 16	Nov. 2	Sep. 19	Nov. 12
Pittsburgh, PA	Oct. 18	Oct. 19	Sep. 19	Nov. 21
Buffalo, NY	Oct. 20	Nov. 6	Sep. 23	Nov. 26
Atlantic City, NJ	Oct. 21	Nov. 4	Sep. 24	Dec. 10
Huntington, WV	Oct. 21	Nov. 1	Sep. 24	Nov. 21
Charleston, WV	Oct. 22	Nov. 1	Sep. 29	Nov. 23
Providence, RI	Oct. 24	Nov. 2	Sep. 30	Nov. 19
Baltimore, MD	Oct. 28	Nov. 2	Oct. 4	Dec. 11
Islip, NY	Oct. 28	Nov. 4	Oct. 9	Nov. 15
Erie, PA	Oct. 30	Nov. 8	Oct. 3	Dec. 4
Harrisburg, PA	Oct. 30	Nov. 8	Sep. 24	Dec. 2
Wilmington, DE	Oct. 31	Nov. 4	Sep. 27	Nov. 24
Bridgeport, CT	Nov. 4	Nov. 8	Oct. 9	Nov. 26
Philadelphia, PA	Nov. 6	Nov. 8	Oct. 5	Dec. 11
Boston, MA	Nov. 9	Nov. 8	Oct. 5	Dec. 6
Newark, NJ	Nov. 9	Nov. 8	Oct. 8	Dec. 2
Washington, DC	Nov. 18	Nov. 9	Oct. 10	Dec. 22
Kennedy Ap, NY	Nov. 19	Nov. 8	Oct. 19	Dec. 17
Central Park, NY	Nov. 20	Nov. 8	Oct. 15	Dec. 22
LaGuardia Ap, NY	Nov. 24	Nov. 8	Oct. 19	Jan. 4



# November Precipitation



From 25% of normal to 200% of normal

# First Snow

Location	Average Date of First Measurable Snow (based on 1981-2010)	This Year	Earliest	Latest
Caribou, ME	Oct. 25	Nov. 7	Sep. 29	Nov. 23
Binghamton, NY	Nov. 1	Nov. 7	Oct. 2	Dec. 4
Burlington, VT	Nov. 4	Nov. 8	Sep. 30	Dec. 7
Buffalo, NY	Nov. 5	Nov. 7	Oct. 6	Dec. 18
Syracuse, NY	Nov. 5	Nov. 7	Oct. 1	Jan. 5
Rochester, NY	Nov. 7	Nov. 7	Oct. 12	Dec. 10
Elkins, WV	Nov. 8	Nov. 12	Oct. 6	Dec. 28
Erie, PA	Nov. 10	Nov. 8	Oct. 1	Dec. 5
Albany, NY	Nov. 15	Nov. 12	Oct. 4	Dec. 28
Pittsburgh, PA	Nov. 15	Nov. 12	Oct. 18	Dec. 18
Concord, NH	Nov. 23	Nov. 12	Oct. 7	Jan. 13
Williamsport, PA	Nov. 25	Nov. 12	Oct. 15	Jan. 16
Portland, ME	Nov. 28	Nov. 12	Oct. 10	Jan. 16
Islip, NY	Dec. 13	Nov. 12	Oct. 29	Feb. 4

So far, first inch of snow arrived early for most sites

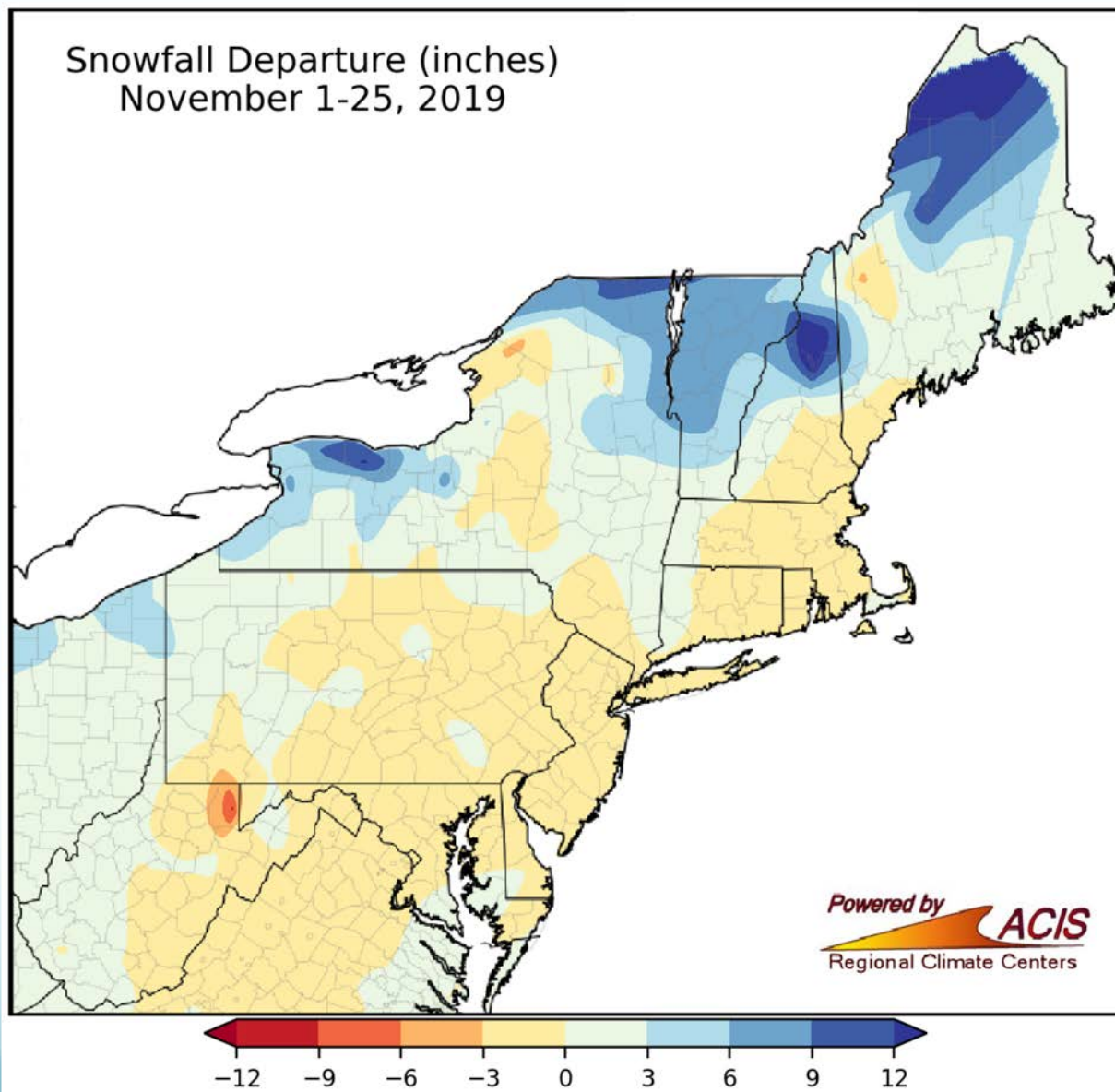
4th earliest measurable snow at Islip



Location	Average Date of First Inch of Snow (based on 1981-2010)	This Year	Earliest	Latest
Caribou, ME	Nov. 8	Nov. 11	Sep. 29	Dec. 12
Binghamton, NY	Nov. 14	Nov. 8	Oct. 9	Jan. 12
Syracuse, NY	Nov. 16	Nov. 8	Oct. 2	Feb. 5
Buffalo, NY	Nov. 19	Nov. 11	Oct. 10	Jan. 4
Burlington, VT	Nov. 19	Nov. 8	Oct. 9	Dec. 23
Erie, PA	Nov. 19	Nov. 8	Oct. 18	Dec. 21
Rochester, NY	Nov. 19	Nov. 11	Oct. 24	Dec. 28
Elkins, WV	Nov. 21	Nov. 12	Oct. 6	Mar. 6
Albany, NY	Nov. 30	Nov. 19	Oct. 4	Jan. 19
Pittsburgh, PA	Dec. 7	Nov. 12	Oct. 18	Jan. 26
Williamsport, PA	Dec. 10	Nov. 24	Oct. 16	Feb. 9



# November Snowfall



From near normal to more than 12" above normal



# November Snowfall

## Maximum 2-Day Total Snowfall for Rochester Area, NY (ThreadEx)

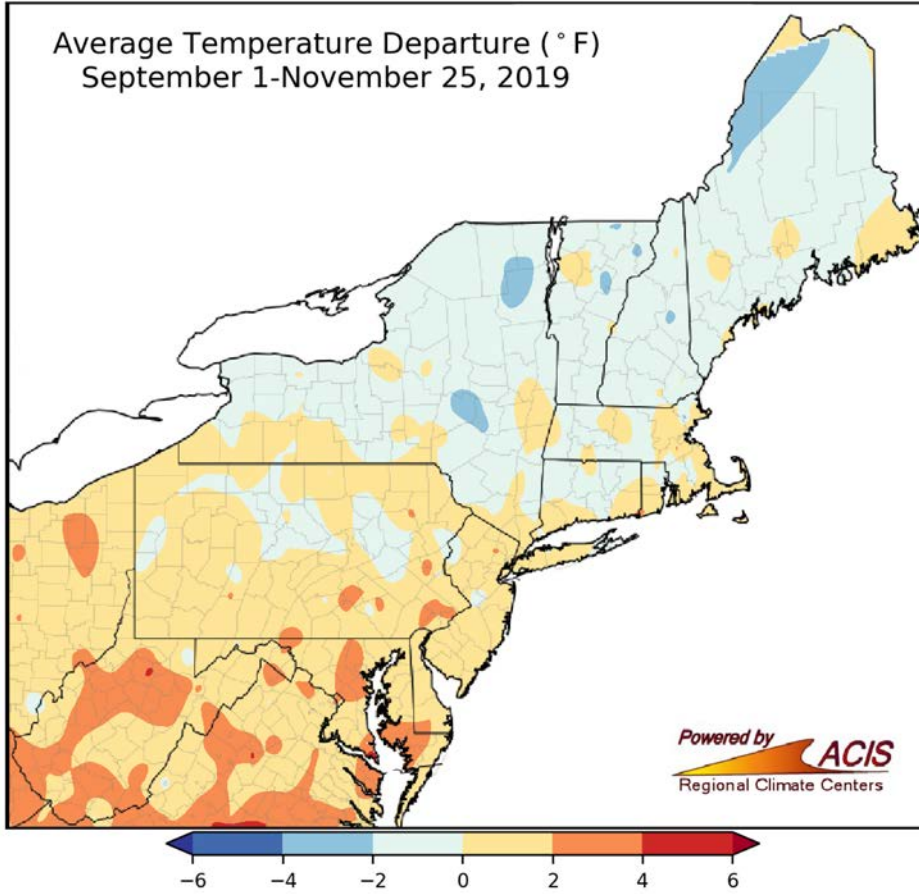
Click column heading to sort ascending, click again to sort descending.

Rank	Value	Ending Date	Missing Days
1	15.0	1995-11-15	0
2	14.7	2016-11-21	0
3	14.0	2019-11-12	0
4	12.8	1886-11-13	0
5	12.6	1886-11-14	0
6	11.9	1995-11-16	0
-	11.9	1958-11-29	0
8	11.8	1997-11-15	0
9	11.2	2016-11-20	0
-	11.2	1953-11-08	0
Last value also occurred in one or more previous years.			
Period of record: 1871-01-01 to 2019-11-14			



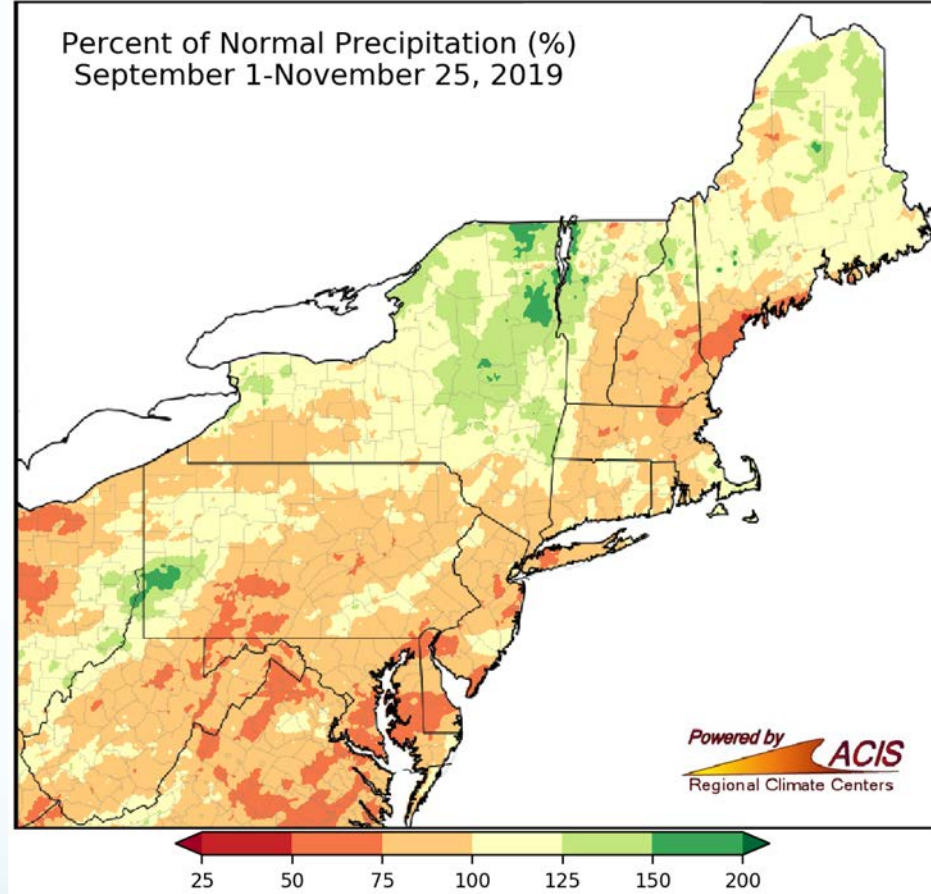
# Fall Temp and Precip

Average Temperature Departure (°F)  
September 1-November 25, 2019



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

Percent of Normal Precipitation (%)  
September 1-November 25, 2019



From 50% of normal to  
200% of normal

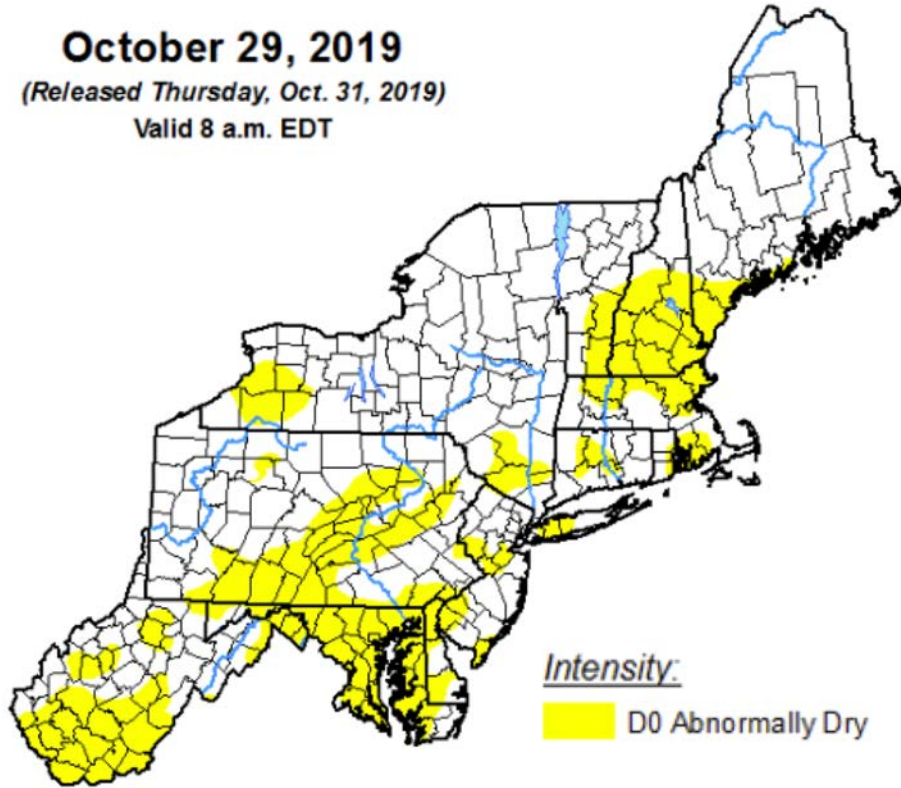


# Drought Monitor

**October 29, 2019**

*(Released Thursday, Oct. 31, 2019)*

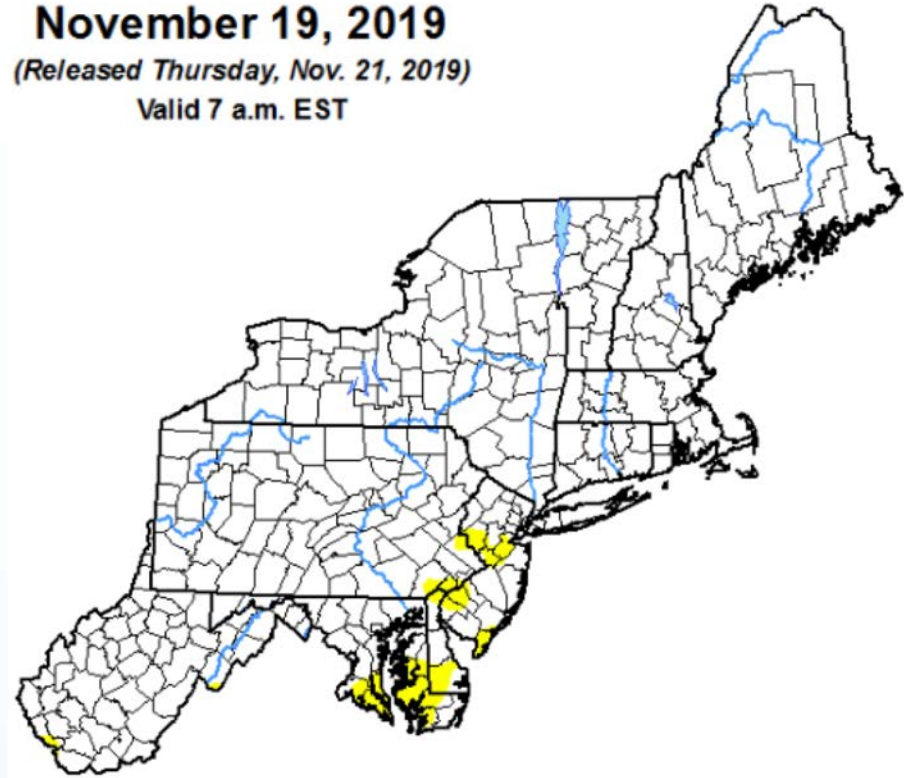
Valid 8 a.m. EDT



**November 19, 2019**

*(Released Thursday, Nov. 21, 2019)*

Valid 7 a.m. EST

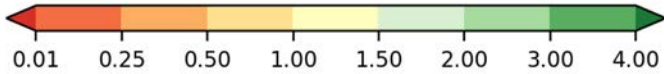
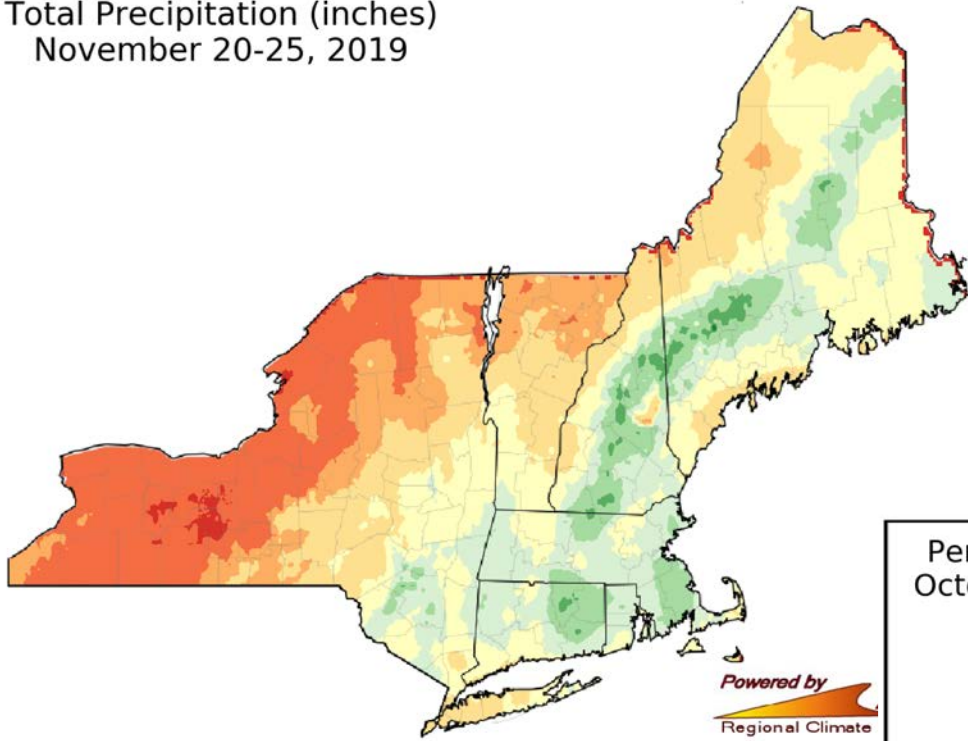


At the end of October:  
30% of the region was  
abnormally dry

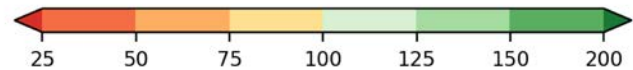
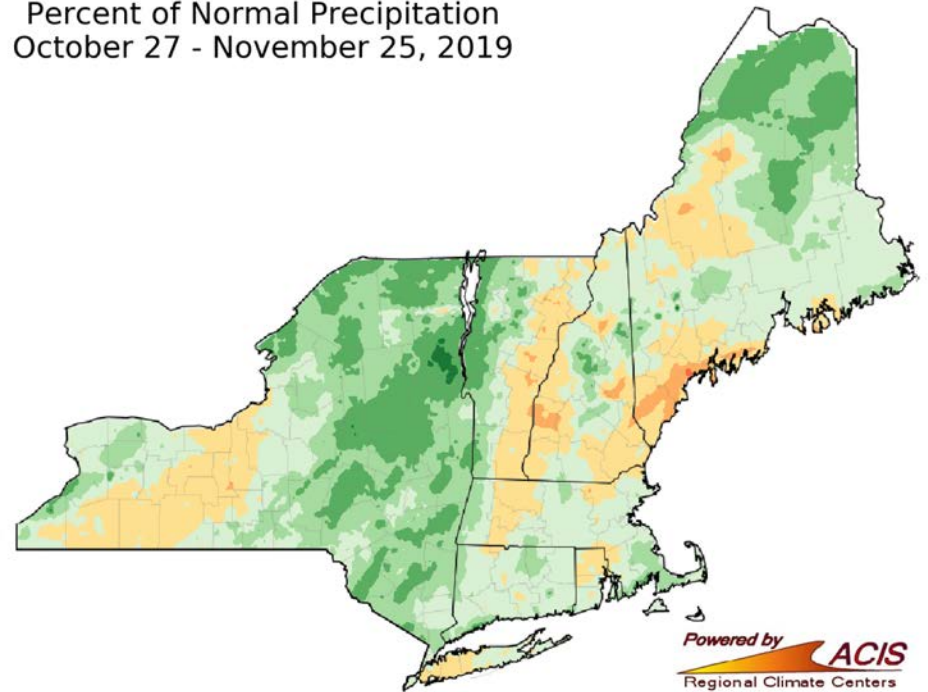
As of November 19:  
3% of the region was  
abnormally dry



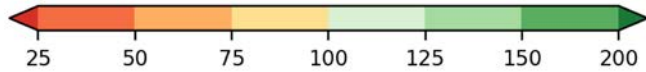
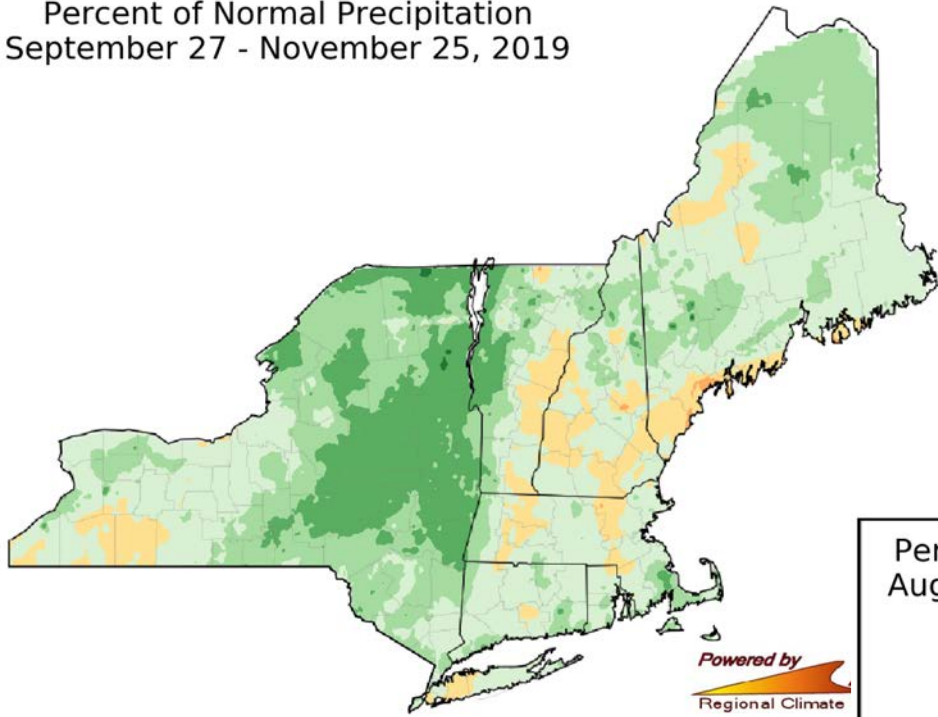
Total Precipitation (inches)  
November 20-25, 2019



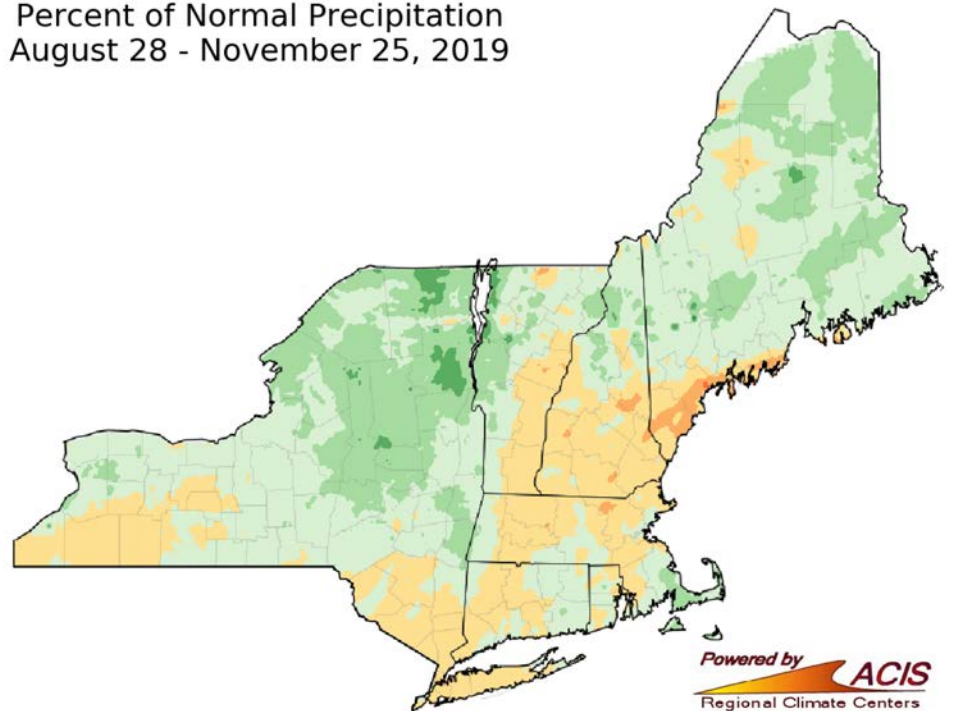
Percent of Normal Precipitation  
October 27 - November 25, 2019

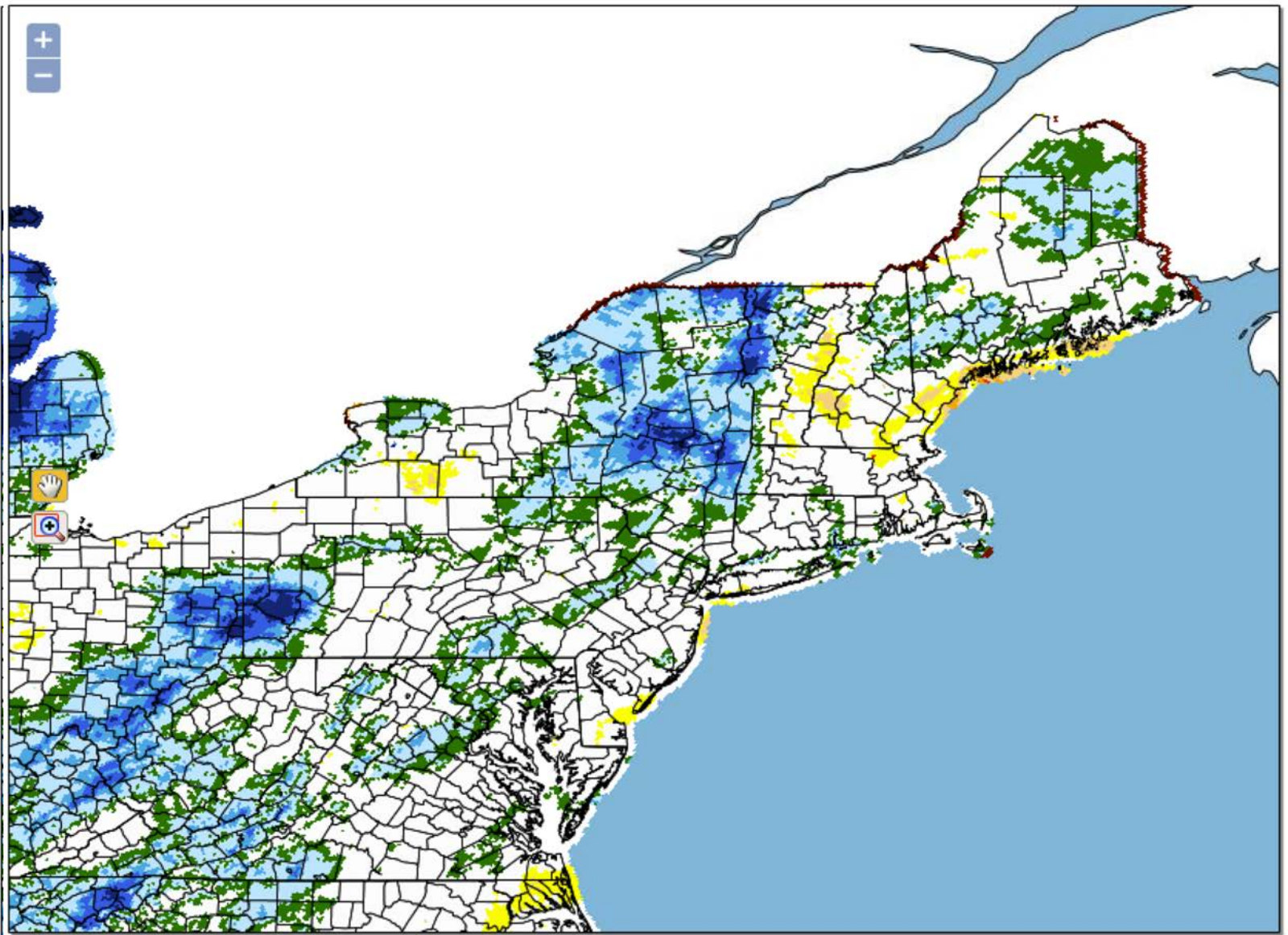


Percent of Normal Precipitation  
September 27 - November 25, 2019

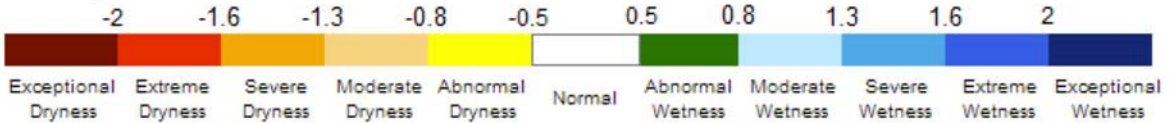


Percent of Normal Precipitation  
August 28 - November 25, 2019





**60 day SPI for November 25, 2019**

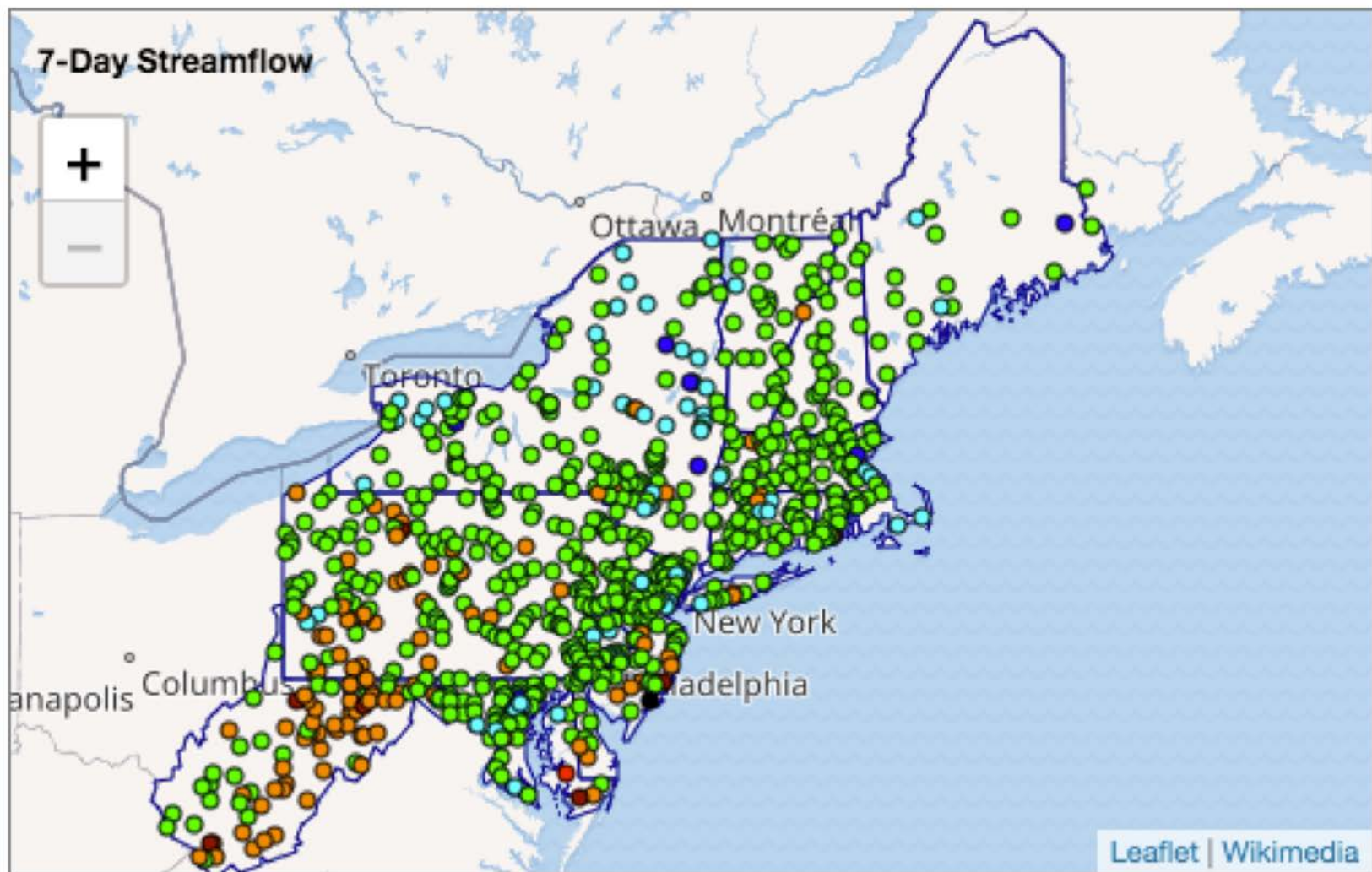


Transparency:



[DOWNLOAD GEOTIFF](#)



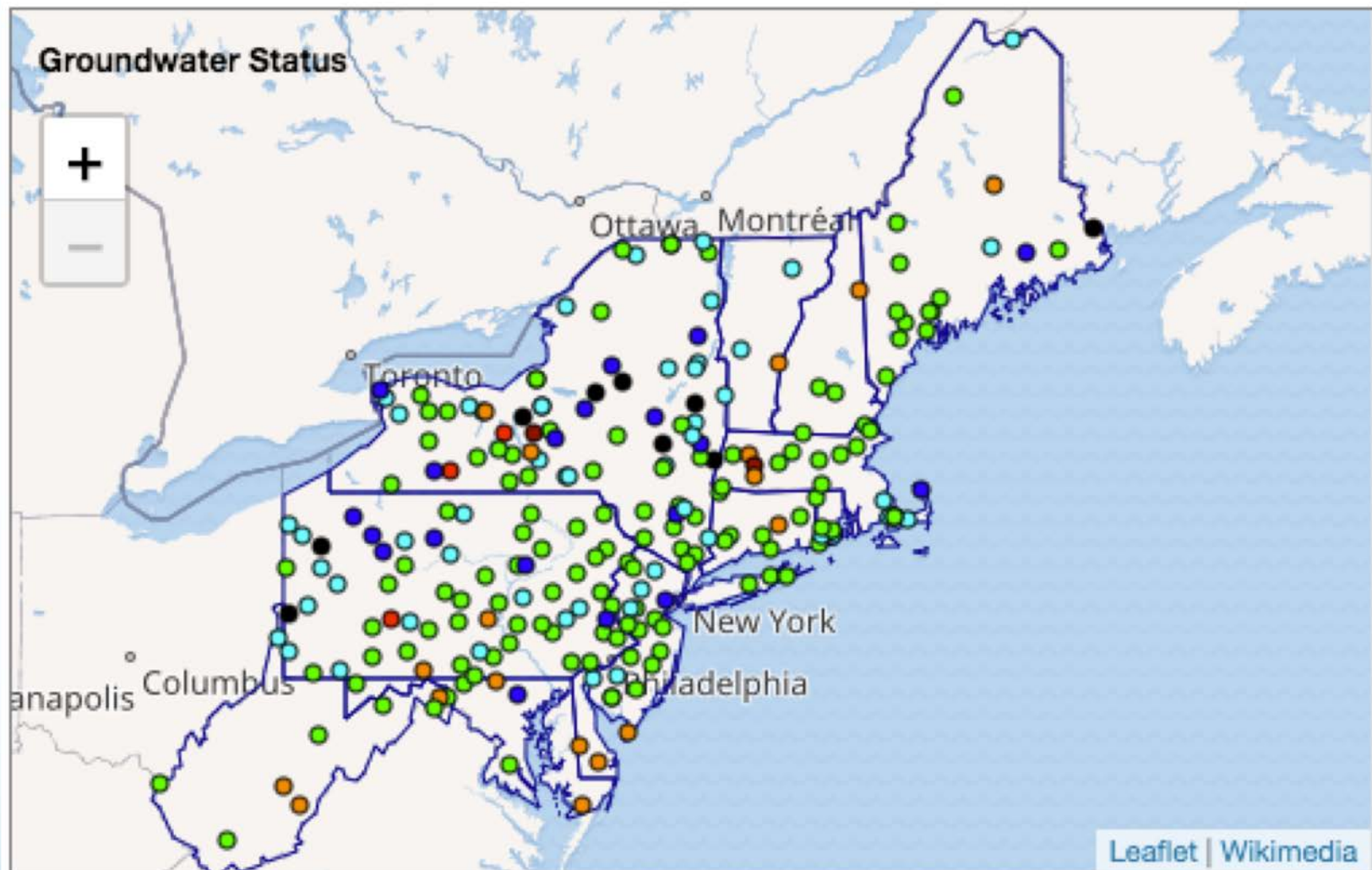


**Explanation - Percentile Classes**

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%		

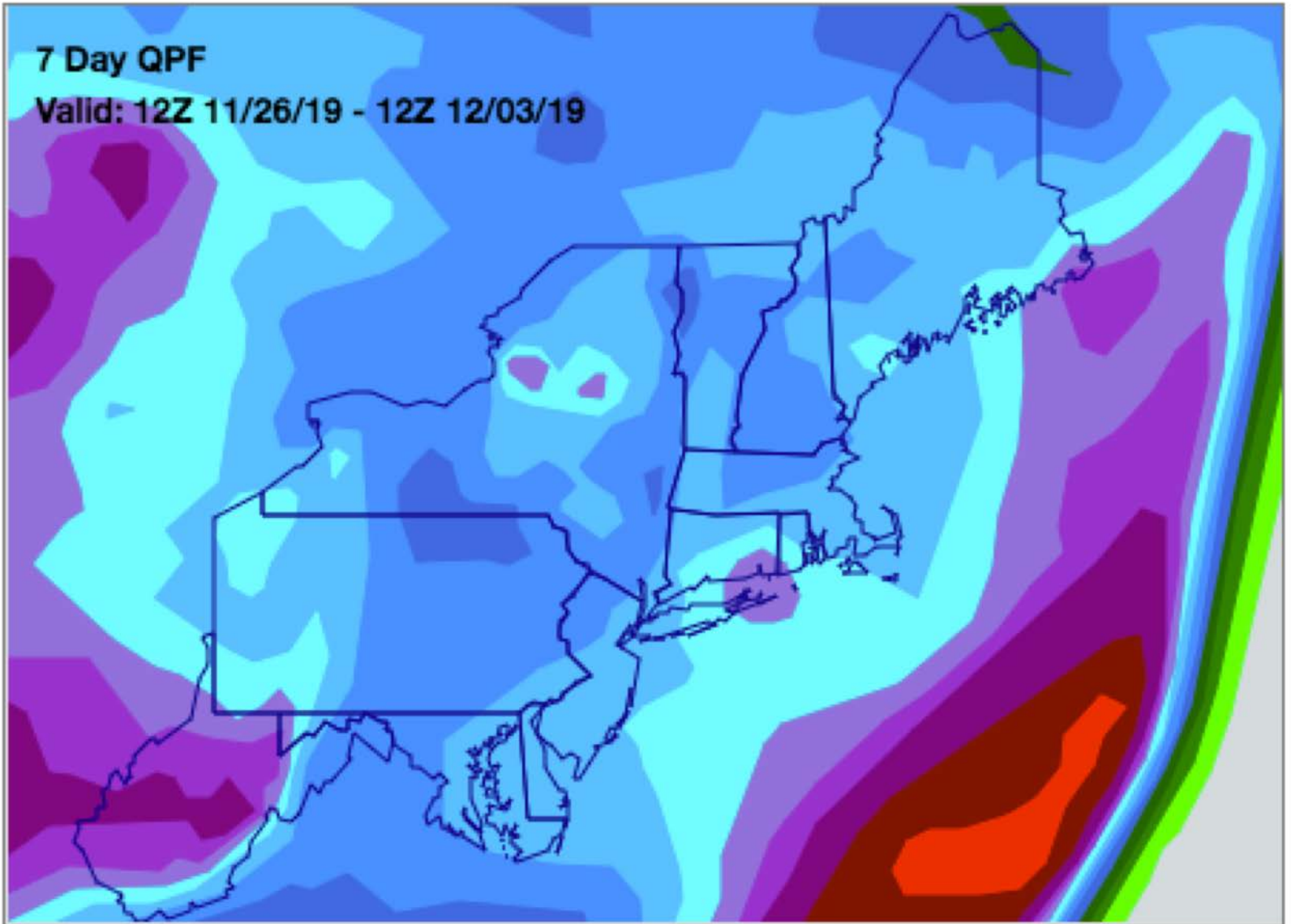
Data provided by [USGS Groundwater Watch](#) - [Climate Response Network](#).



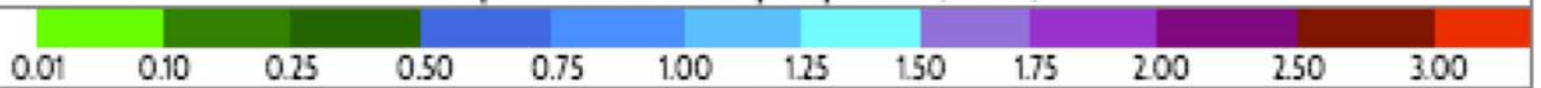


# 7 Day QPF

Valid: 12Z 11/26/19 - 12Z 12/03/19



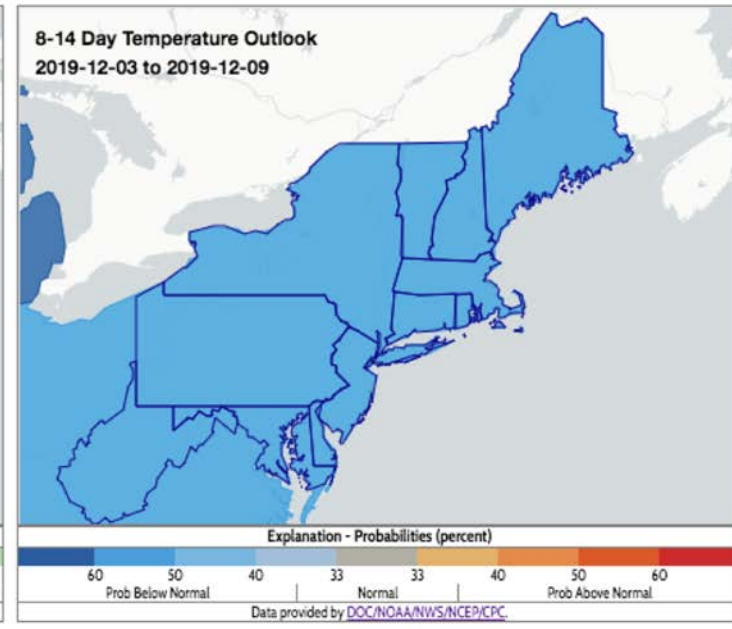
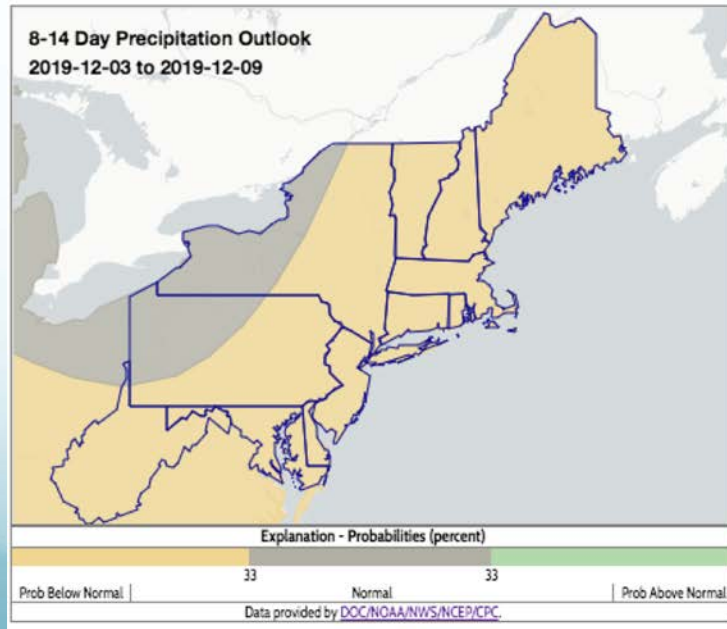
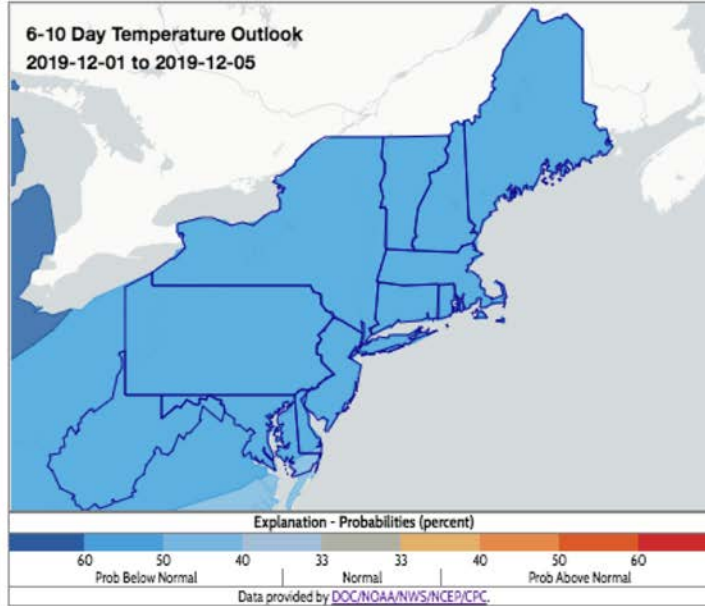
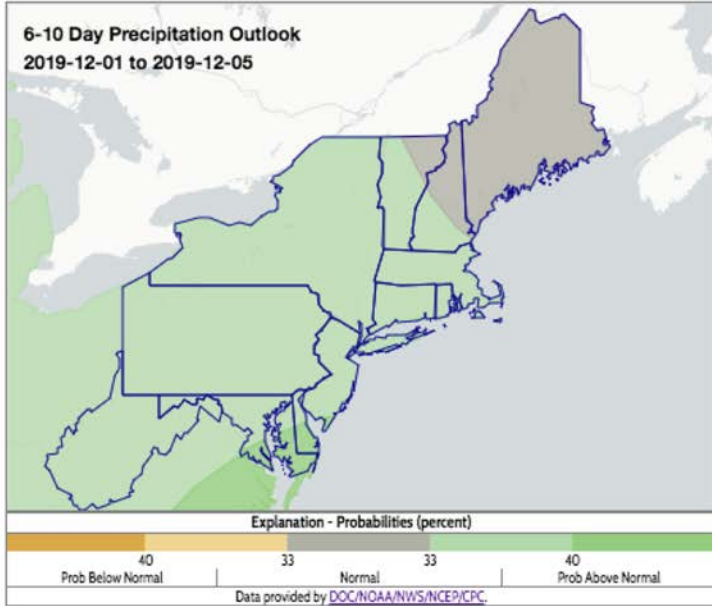
Explanation - Forecast precipitation (inches)



Data provided by [DOC/NOAA/NWS/NCEP/WPC](https://www.noaa.gov/doc/noaa/nws/ncep/wpc)



# Short-term Outlooks



# Contact Information

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

## Upcoming Webinars

- Thursday, December 19 at 9:30am
  - Delaware State Climate Team

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

