

# December Recap & Northeast DEWS Discussion

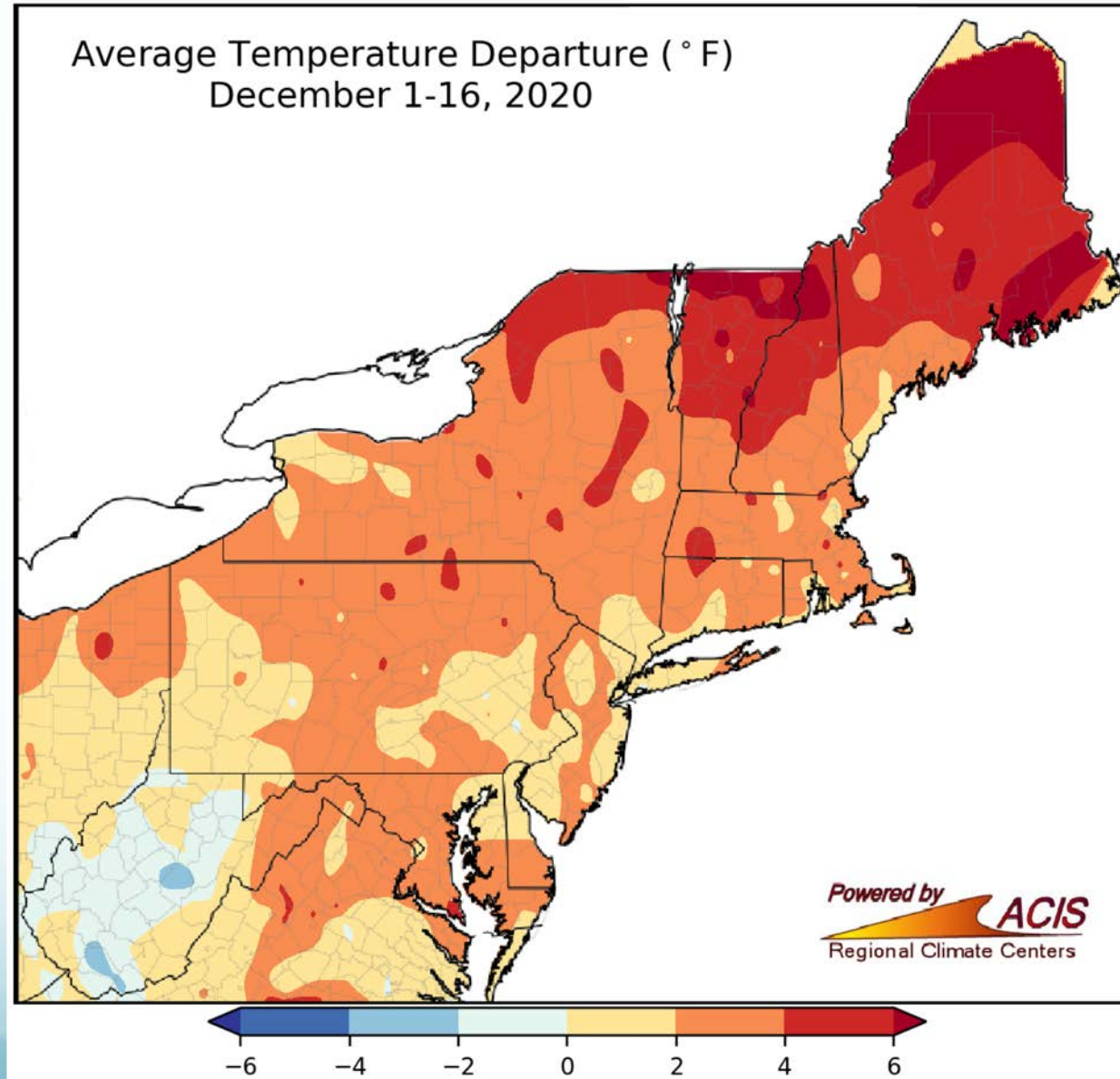
By: Samantha Borisoff, Climatologist  
Northeast Regional Climate Center



Northeast Regional  
Climate Center



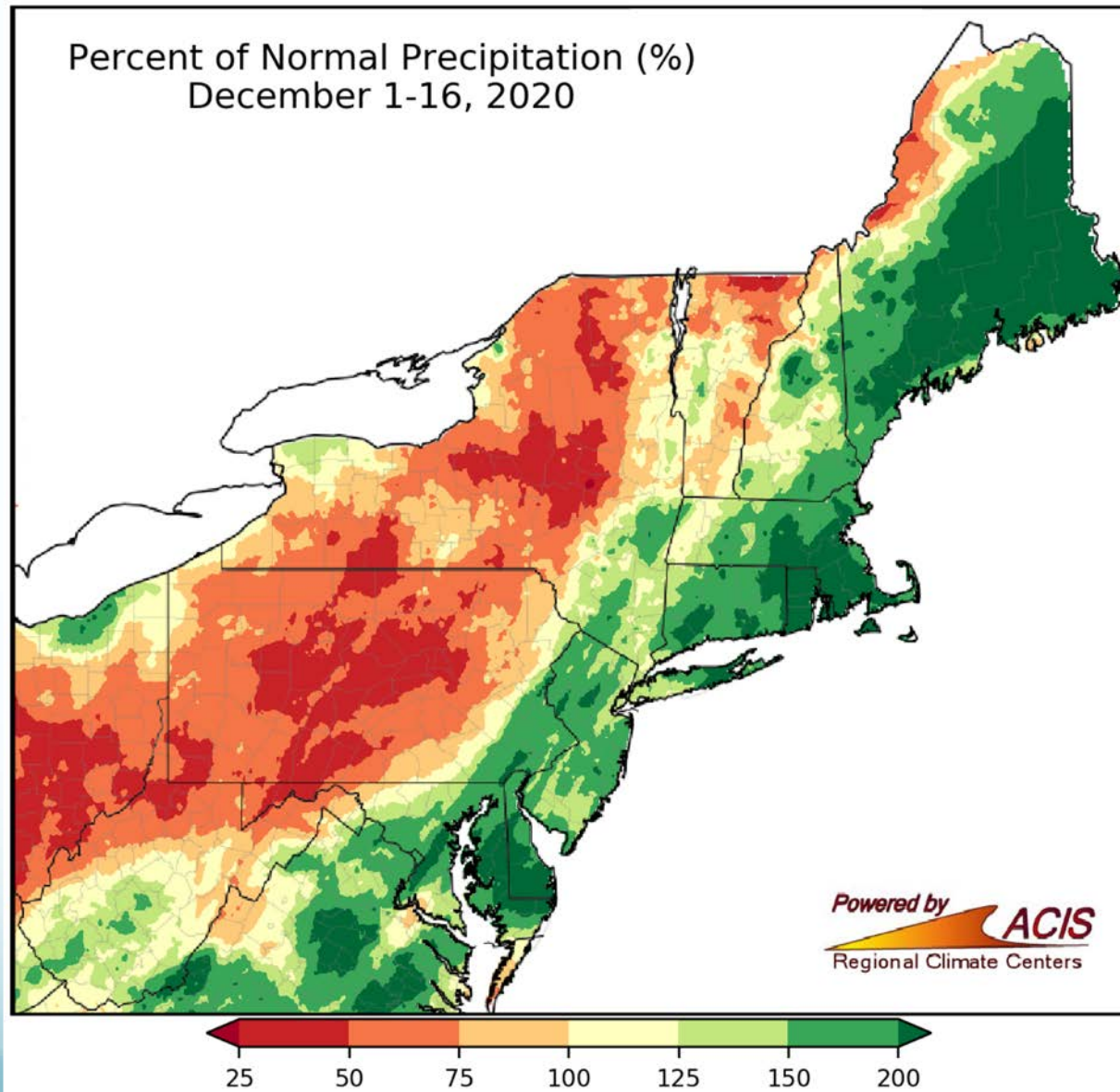
# December Temperatures



From 4°F below normal to more than 6°F above normal



# December Precipitation



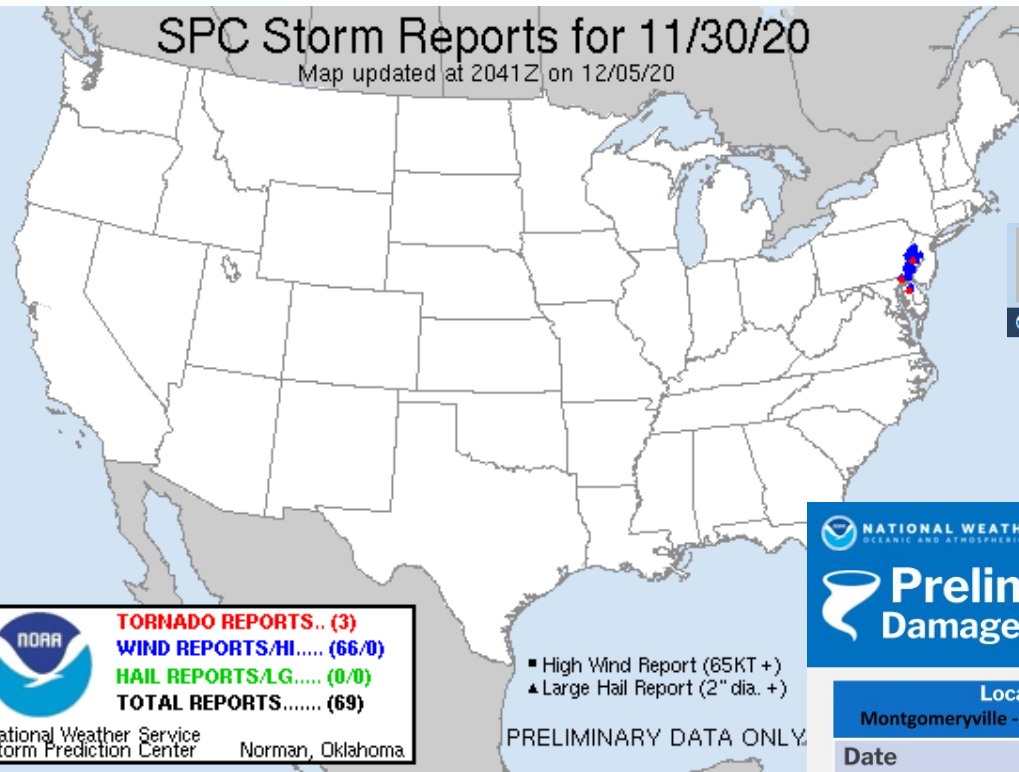
From 25% of normal to more than 200% of normal





# December Storms

SPC Storm Reports for 11/30/20  
Map updated at 2041Z on 12/05/20

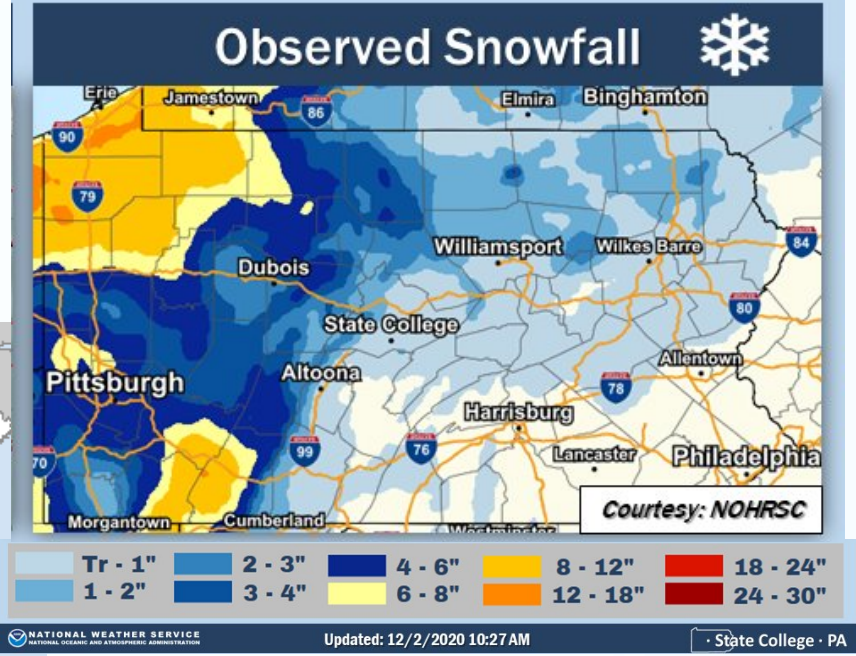


**TORNADO REPORTS.. (3)**  
**WIND REPORTS/HI..... (66/0)**  
**HAIL REPORTS/LG..... (0/0)**  
**TOTAL REPORTS..... (69)**

■ High Wind Report (65KT +)  
 ▲ Large Hail Report (2" dia. +)

National Weather Service  
 Storm Prediction Center      Norman, Oklahoma

PRELIMINARY DATA ONLY



## Preliminary Damage Survey Results

Location Info:  
 Montgomeryville - Montgomery County, PA

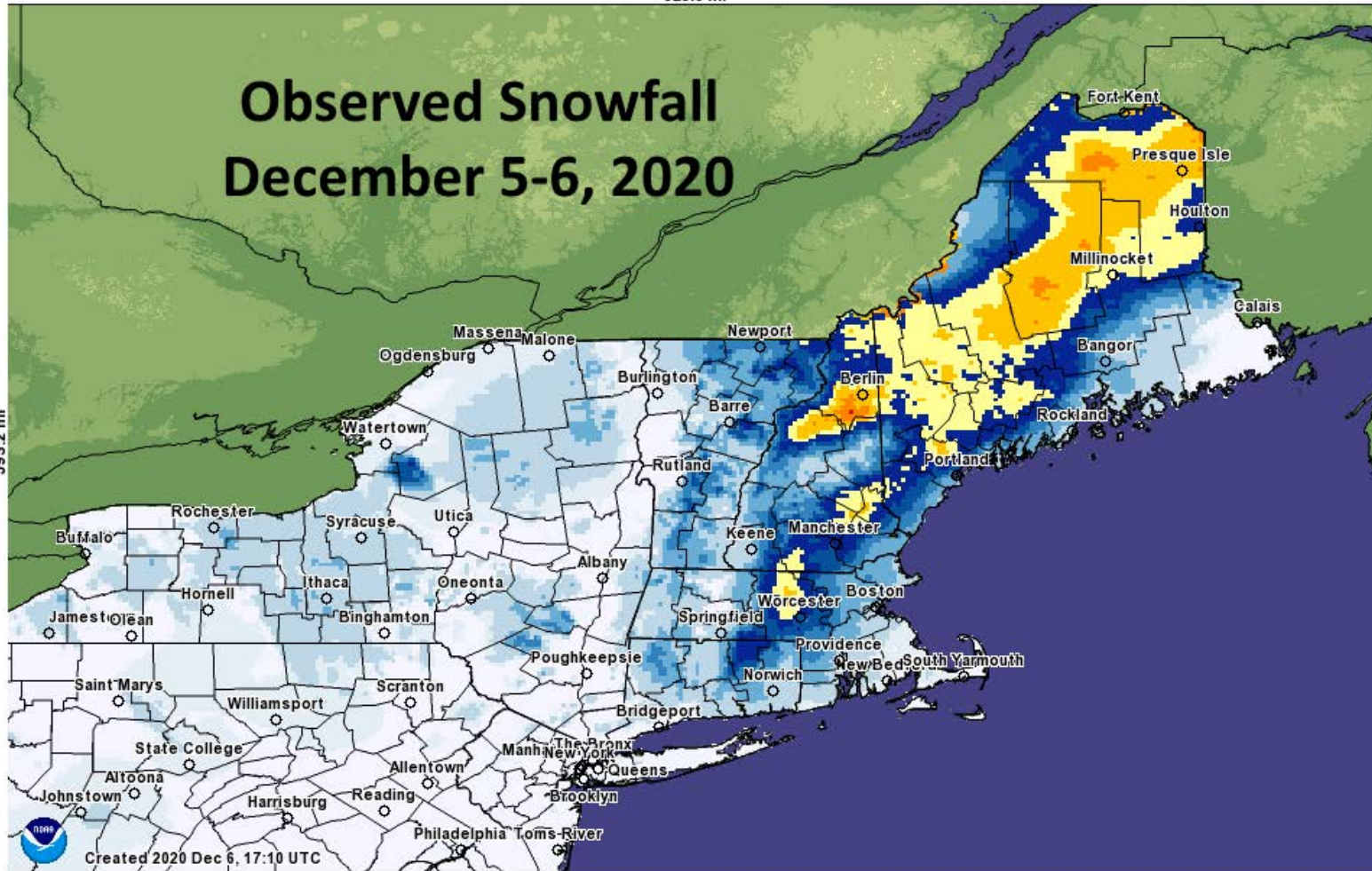
Date	11/30/20
Time (Local)	3:47-3:48 PM EST
EF Rating	EF-0
Est. Peak Winds	70 mph
Path Length	0.5 miles
Max Width	100 yards
Injuries/Deaths	None



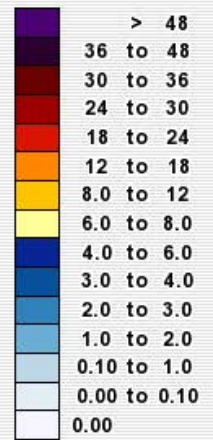
# December Storms

Interpolated Observed Snowfall Analysis during 48h preceding 2020 December 6, 12:00 UTC  
625.8 mi

## Observed Snowfall December 5-6, 2020

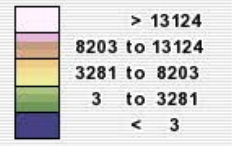


### Inches of depth



Not Estimated

### Elevation in feet



593.2 mi

593.2 mi

723.7 mi



Created 2020 Dec 6, 17:10 UTC



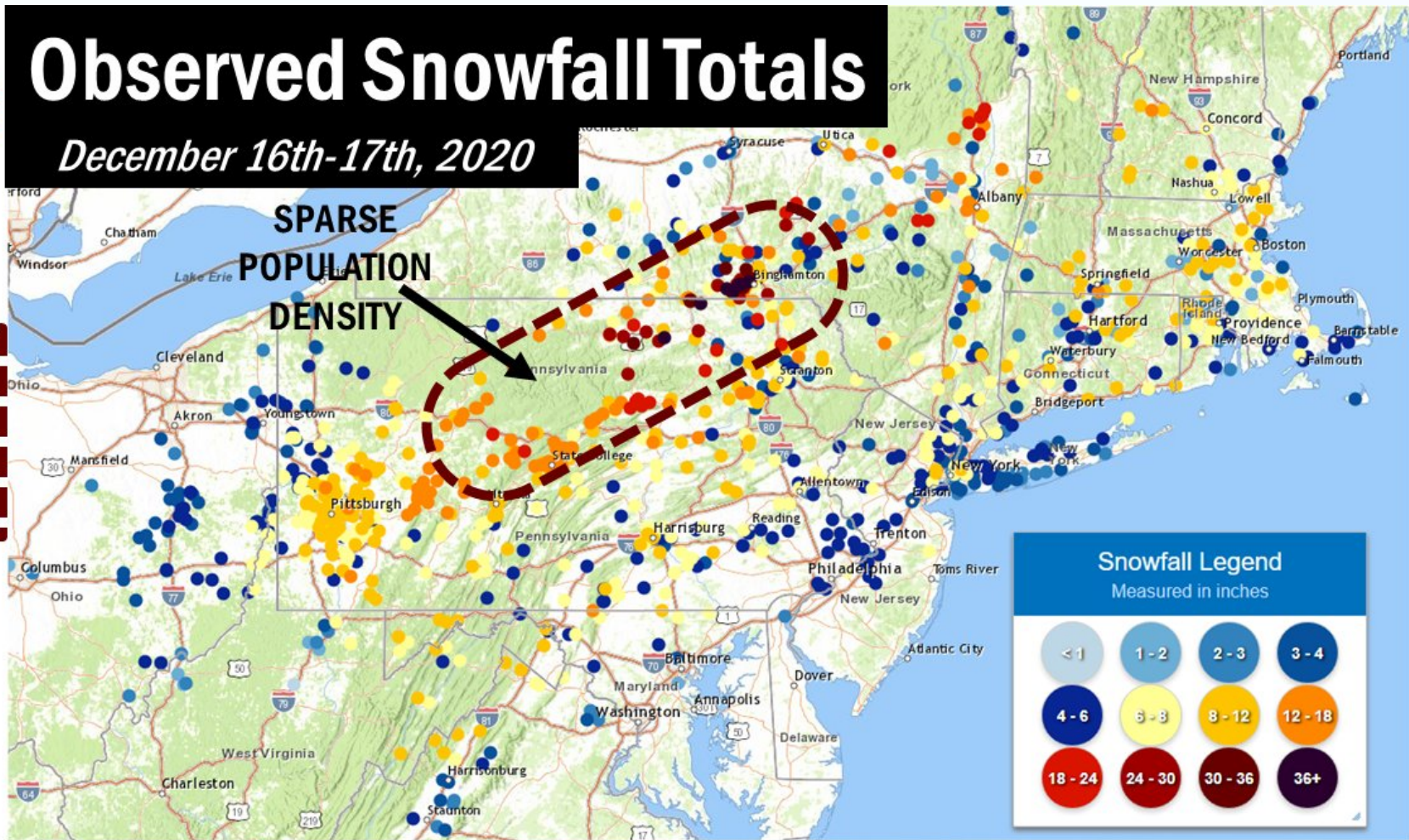


# December Storms



## Observed Snowfall Totals

December 16th-17th, 2020



UPDATED:  
6:15AM  
Thursday  
12/17/20



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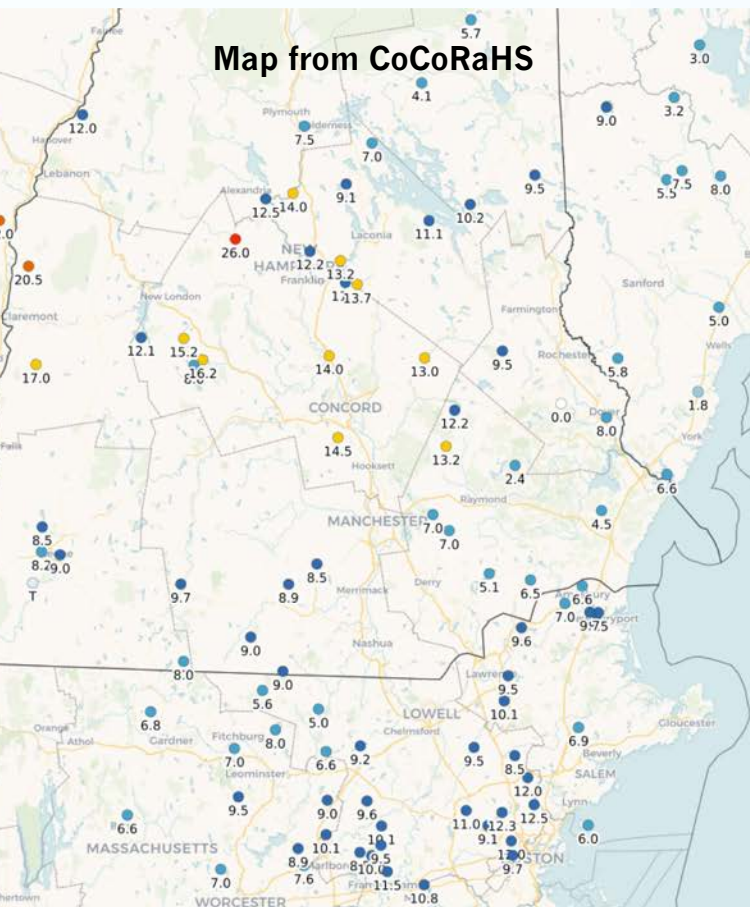
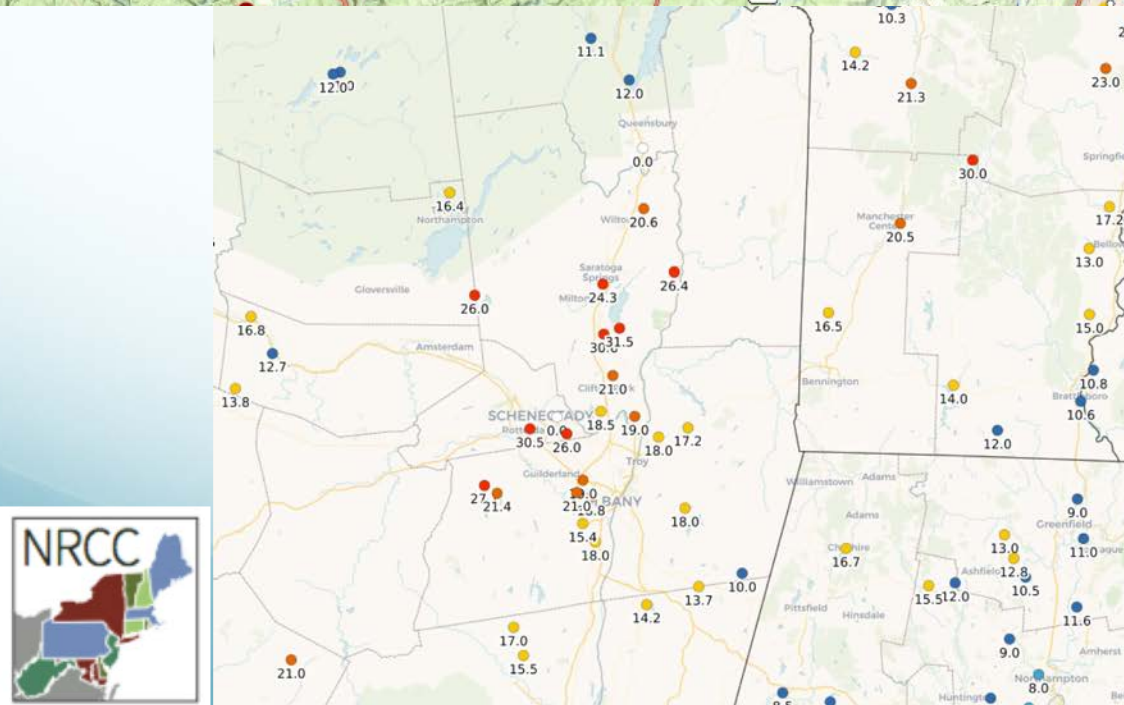
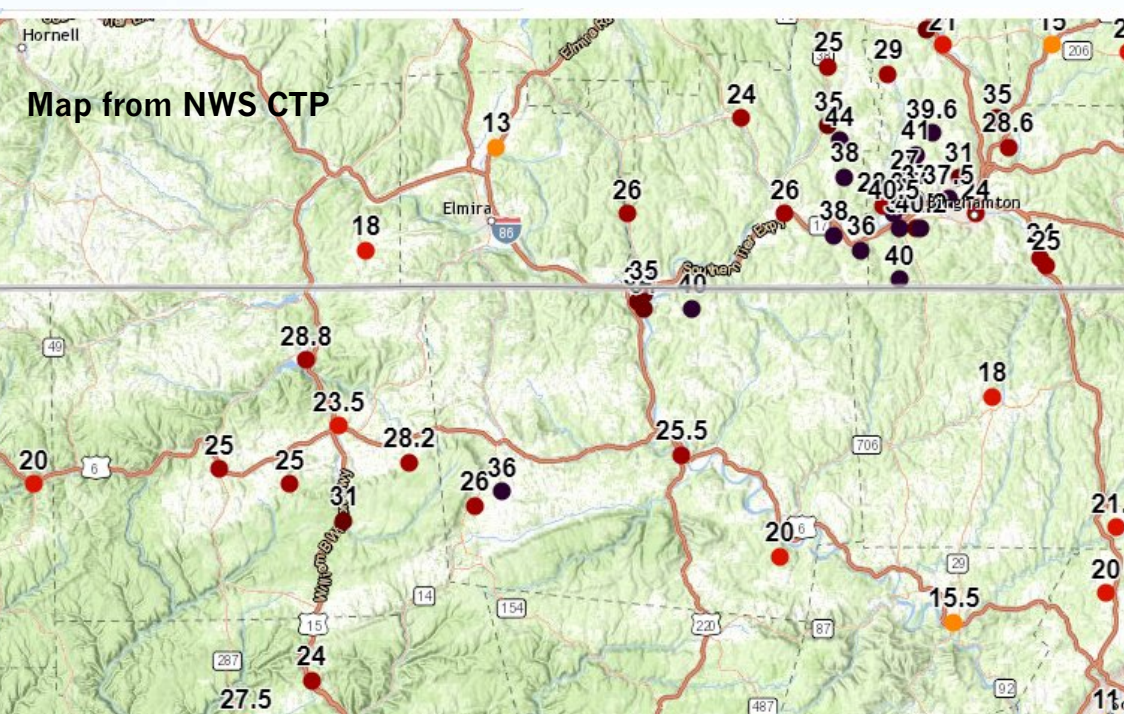


[www.weather.gov/ctp](http://www.weather.gov/ctp)





# December Storms





Williamsport, PA (IPT)

# Biggest Snowstorm On Record



## 24.7"

Period of Record:  
1895-present  
(125 years)

Previous Record:  
24.1"  
December 16-17, 2020 (January 12-13, 1964)

December 16-17, 2020 (January 12-13, 1964)

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# December Storms

Location	Dec 16, 2020 Snowfall (in.)	Rank for Dec	Snowiest Dec Day (in.)
Allentown, PA	9.2	3	13.1 on 12/24/66
Binghamton, NY	13.6	2	14.1 on 12/21/93
Harrisburg, PA	9.3	4	10.1 on 12/23/63
Pittsburgh, PA	9.3	5	22.0 on 12/17/1890
Williamsport, PA	13.7	2	14.7 on 12/26/69

...BROOME COUNTY...

2 SW NWS BINGHAMTON VESTAL	41.0	IN	0640 AM	12/17	NWS EMPLOYEE
2 S BINGHAMTON	41.0	IN	0730 AM	12/17	PUBLIC
ENDICOTT	41.0	IN	0800 AM	12/17	PUBLIC
2 E VESTAL	40.5	IN	0550 AM	12/17	TRAINED SPOTTE
2 SW VESTAL CENTER	40.2	IN	0700 AM	12/17	NWS EMPLOYEE
<b>NWS BINGHAMTON</b>	<b>40.0</b>	<b>IN</b>	<b>0730 AM</b>	<b>12/17</b>	<b>NWS EMPLOYEE</b>
WEST CORNERS	39.6	IN	0700 AM	12/17	OFFICIAL NWS
ENDWELL	39.5	IN	0649 AM	12/17	PUBLIC
CHENANGO BRIDGE	37.0	IN	0622 AM	12/17	PUBLIC
2 SSE VESTAL CENTER	36.0	IN	0742 AM	12/17	PUBLIC
	35.0	IN	0747 AM	12/17	PUBLIC

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

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

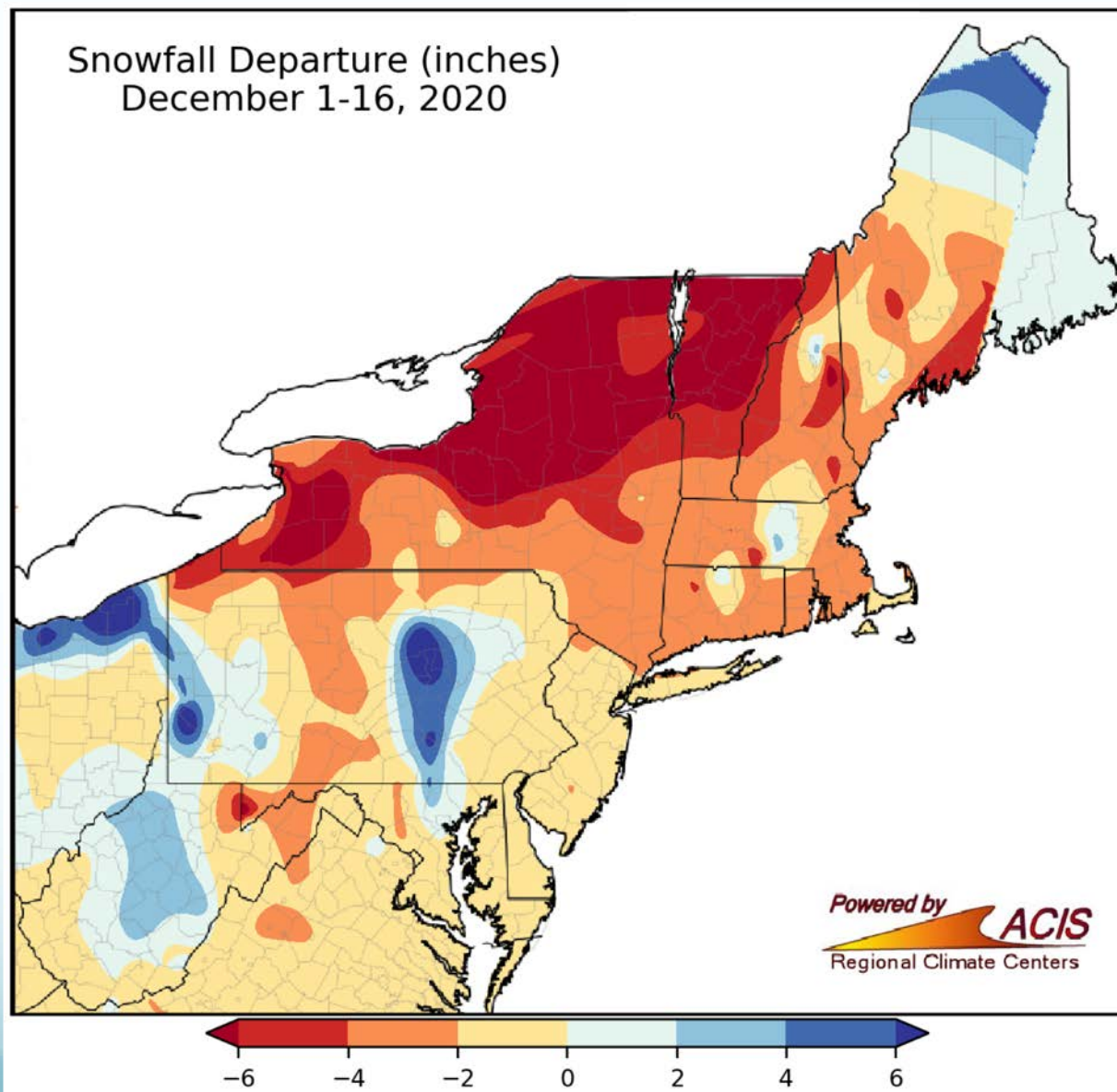
Rank	Value	Ending Date	Missing Days
1	35.3	2017-03-15	0
2	31.2	2017-03-14	0
3	24.0	1972-02-20	0
4	23.1	1961-02-04	0
5	22.5	1971-03-04	0
6	22.3	1993-03-14	0
7	21.4	1972-02-19	0
8	20.7	2016-11-21	0
9	20.1	1966-01-31	0
10	19.0	1998-02-25	0

Period of record: 1951-05-25 to 2020-12-15



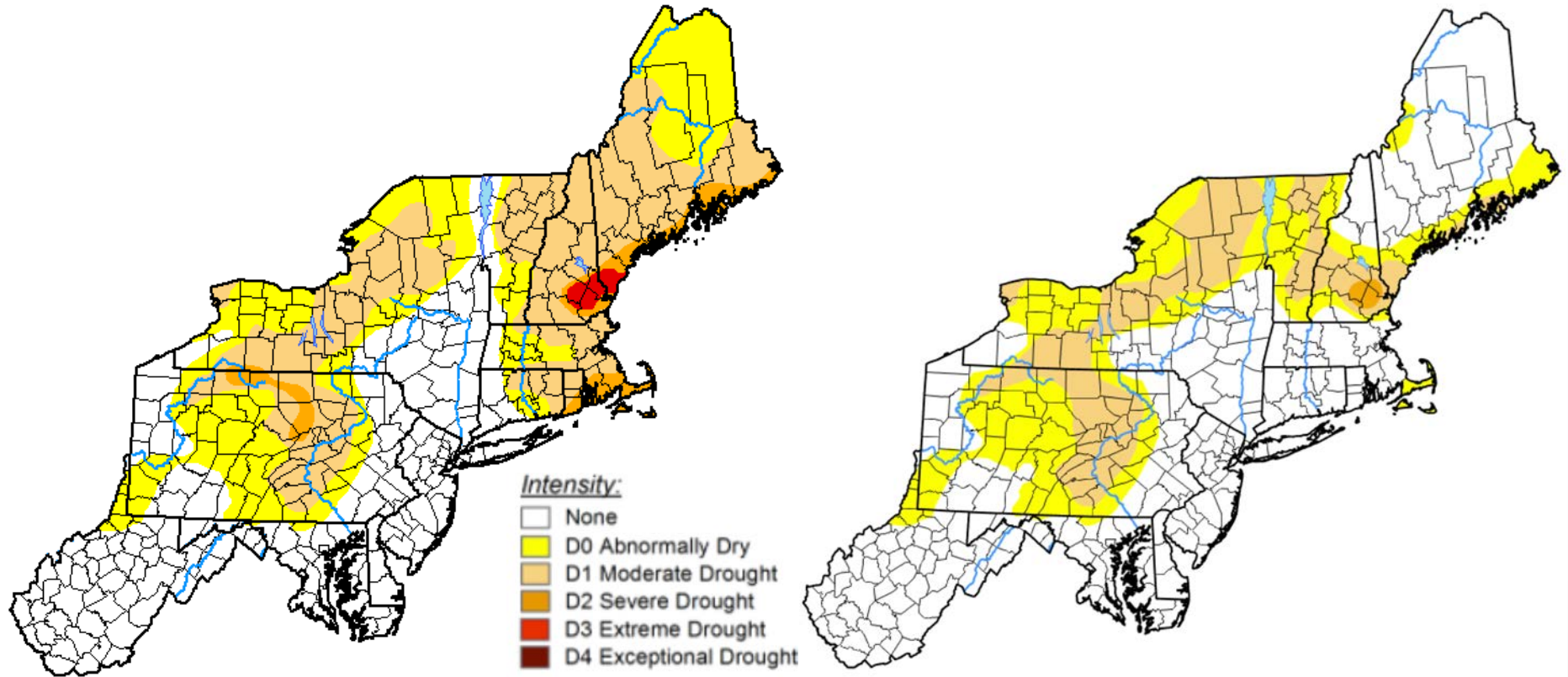


# December Snowfall



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

# Drought Monitor



November 17:

34% of the region was in a drought  
25% was abnormally dry

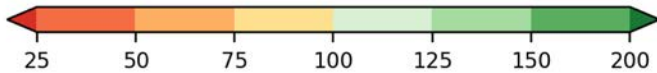
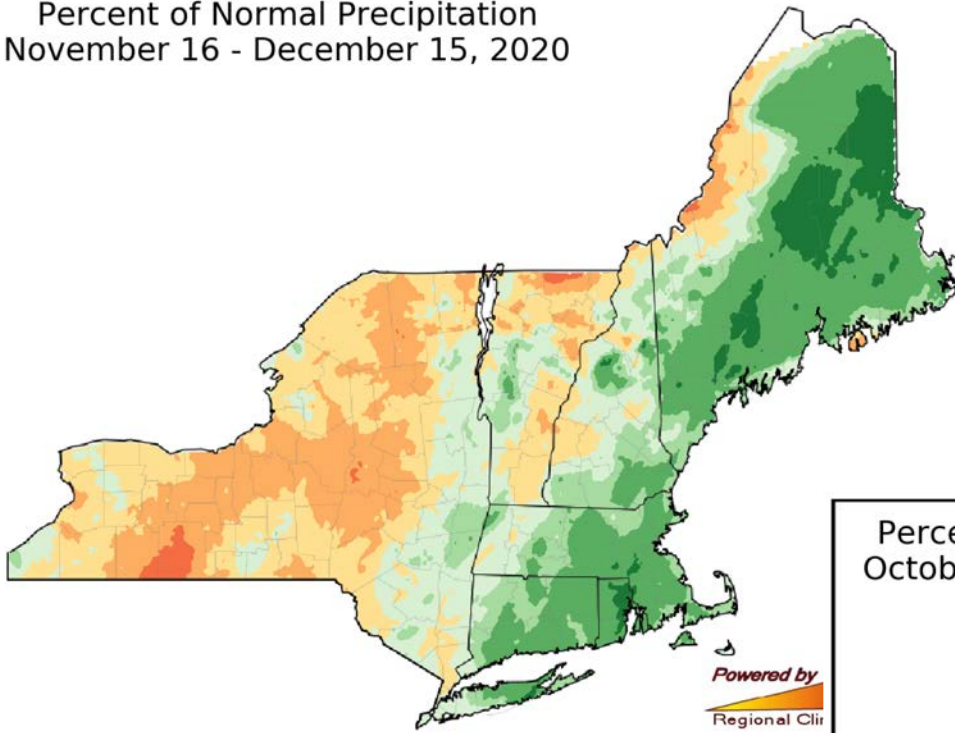
December 15:

17% of the region was in a drought  
23% was abnormally dry



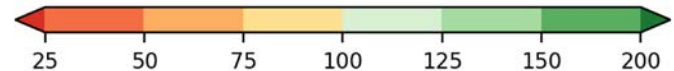
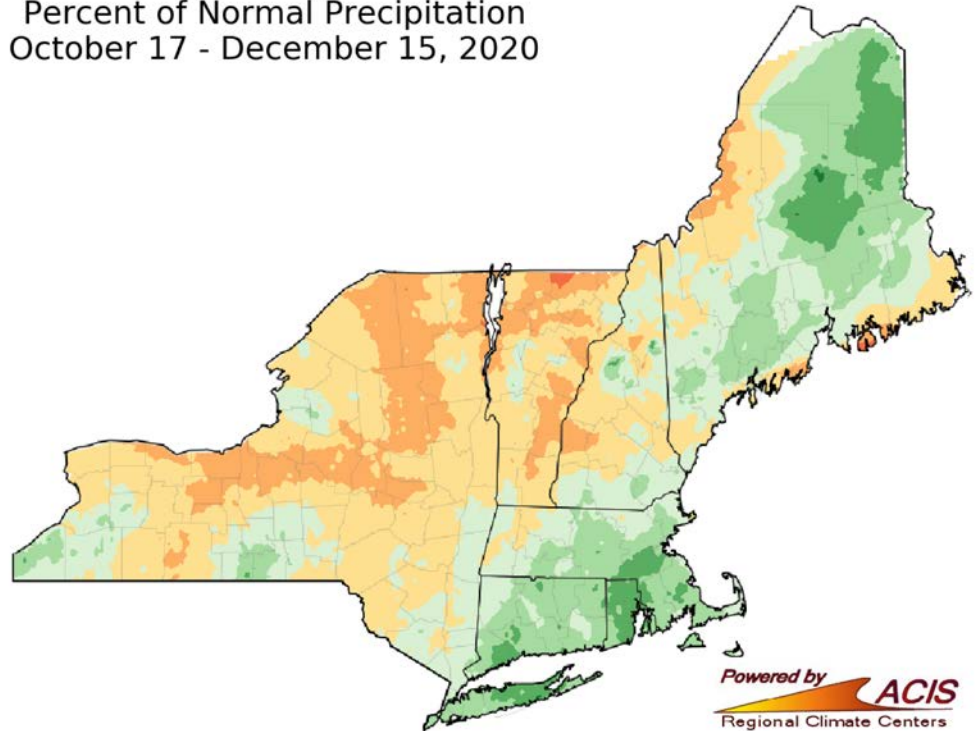


Percent of Normal Precipitation  
November 16 - December 15, 2020



# Precipitation

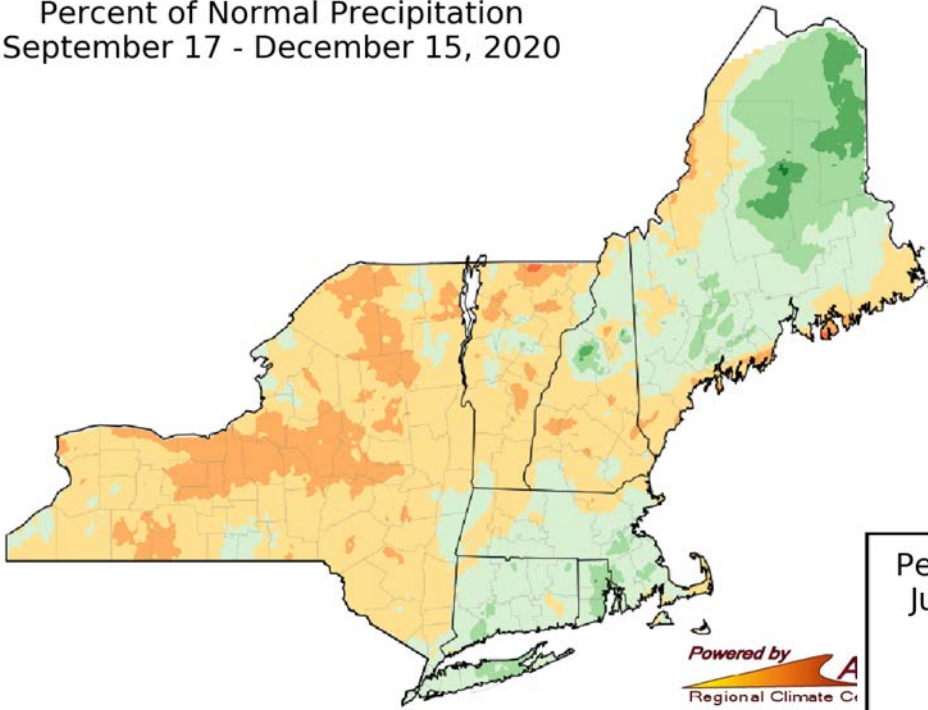
Percent of Normal Precipitation  
October 17 - December 15, 2020



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Regional Cli

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ACIS  
Regional Climate Centers

Percent of Normal Precipitation  
September 17 - December 15, 2020

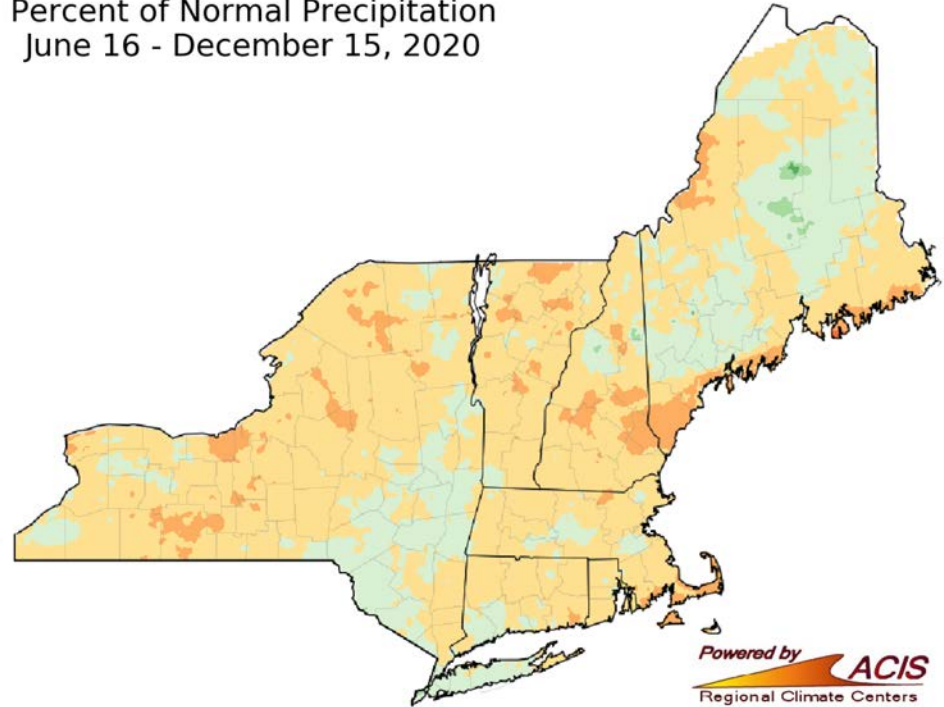


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Regional Climate C

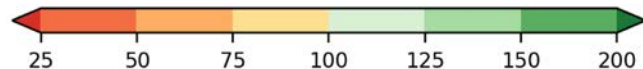


# Precipitation

Percent of Normal Precipitation  
June 16 - December 15, 2020

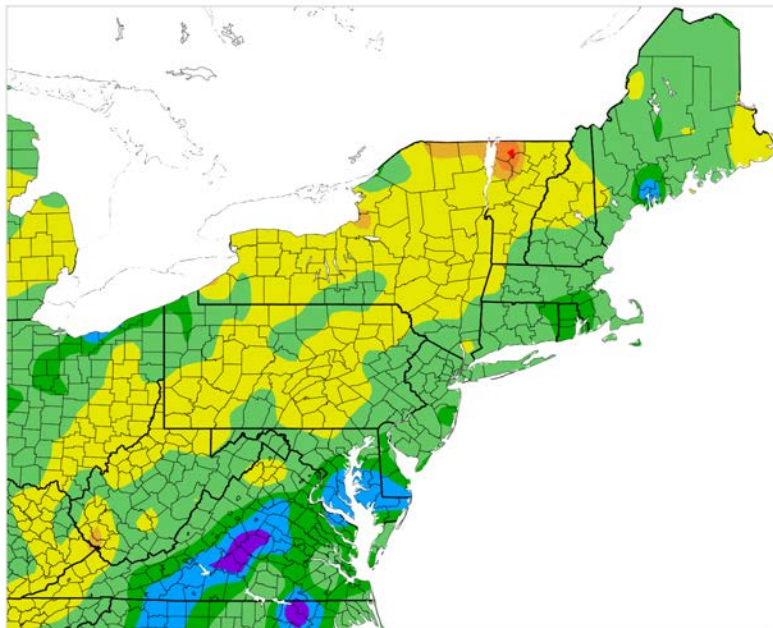


Powered by  
Regional Climate Centers

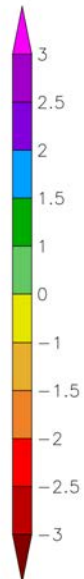




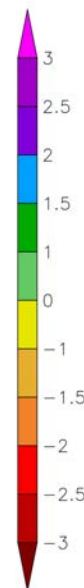
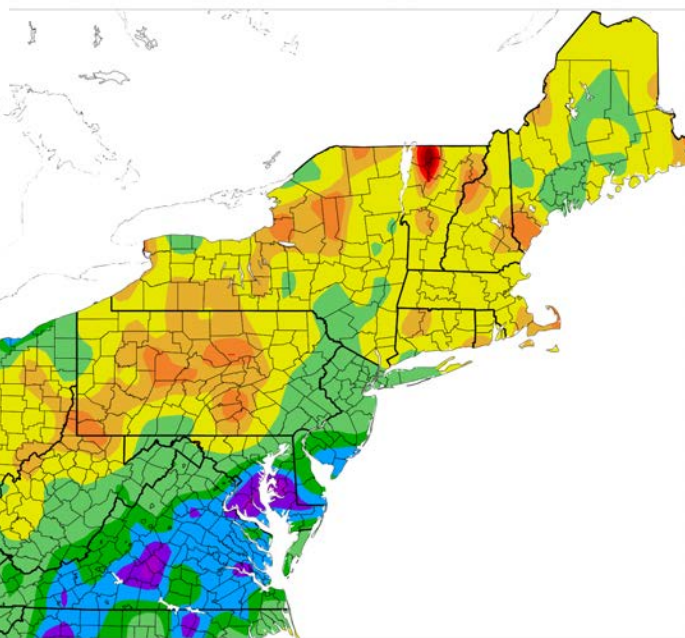
60 Day SPI  
10/17/2020 - 12/15/2020



# Standardized Precipitation Index



6 Month SPI  
6/16/2020 - 12/15/2020



Generated 12/16/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers



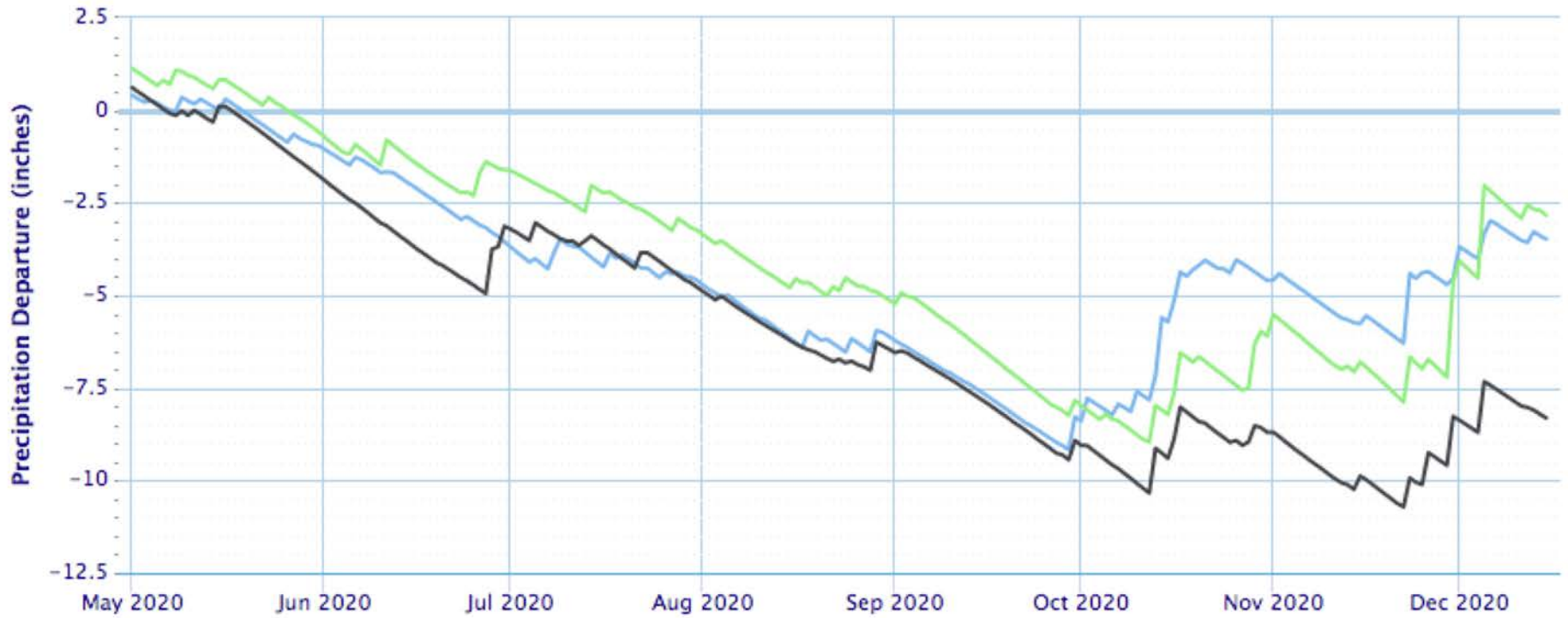
Generated 12/16/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

# Precipitation

## Accumulated Precipitation Departure from Normal

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

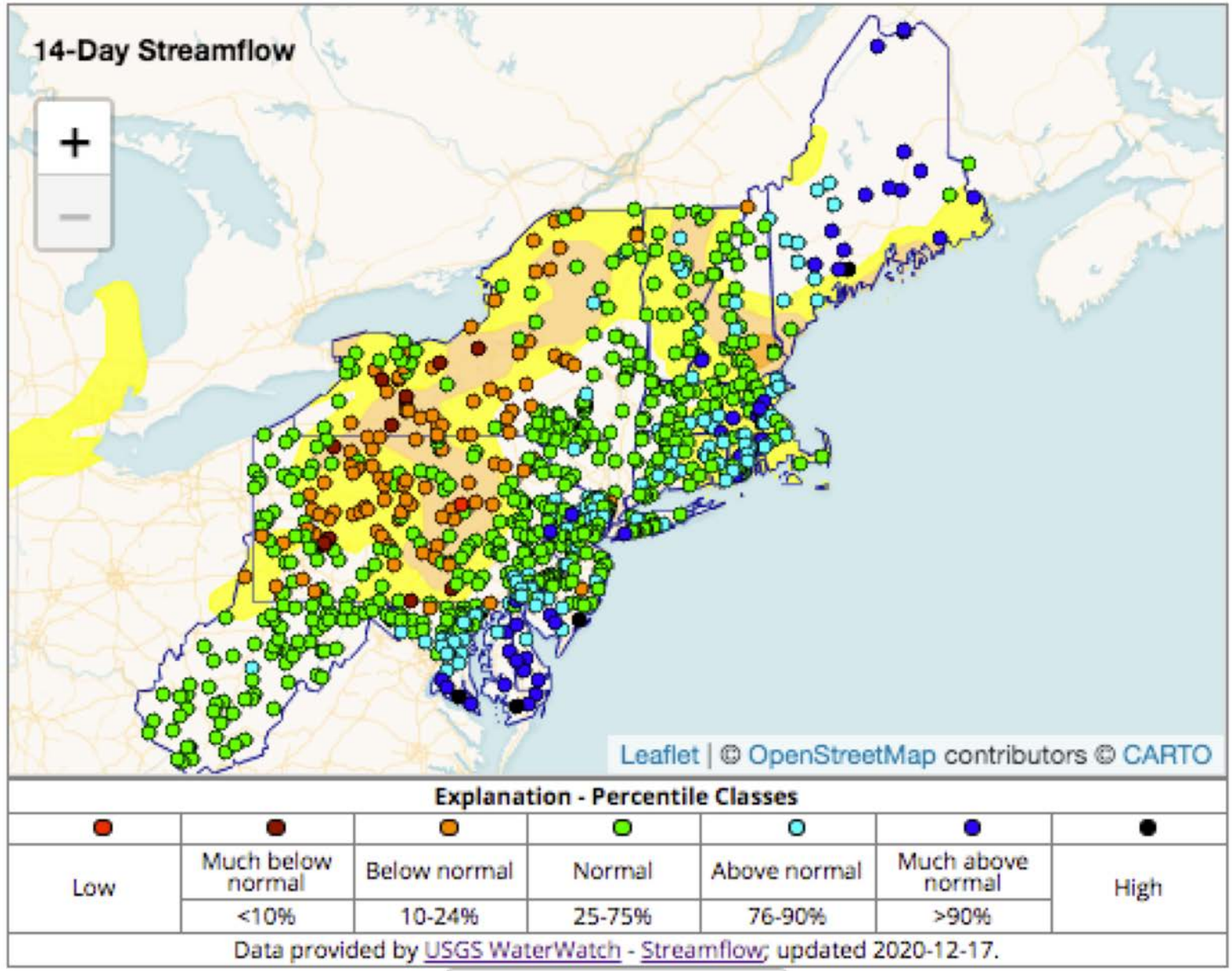
— Caribou Area, ME (ThreadEx):Precip Dprt — Concord Area, NH (ThreadEx):Precip Dprt — Providence Area, RI (ThreadEx):Precip Dprt

Powered by ACIS

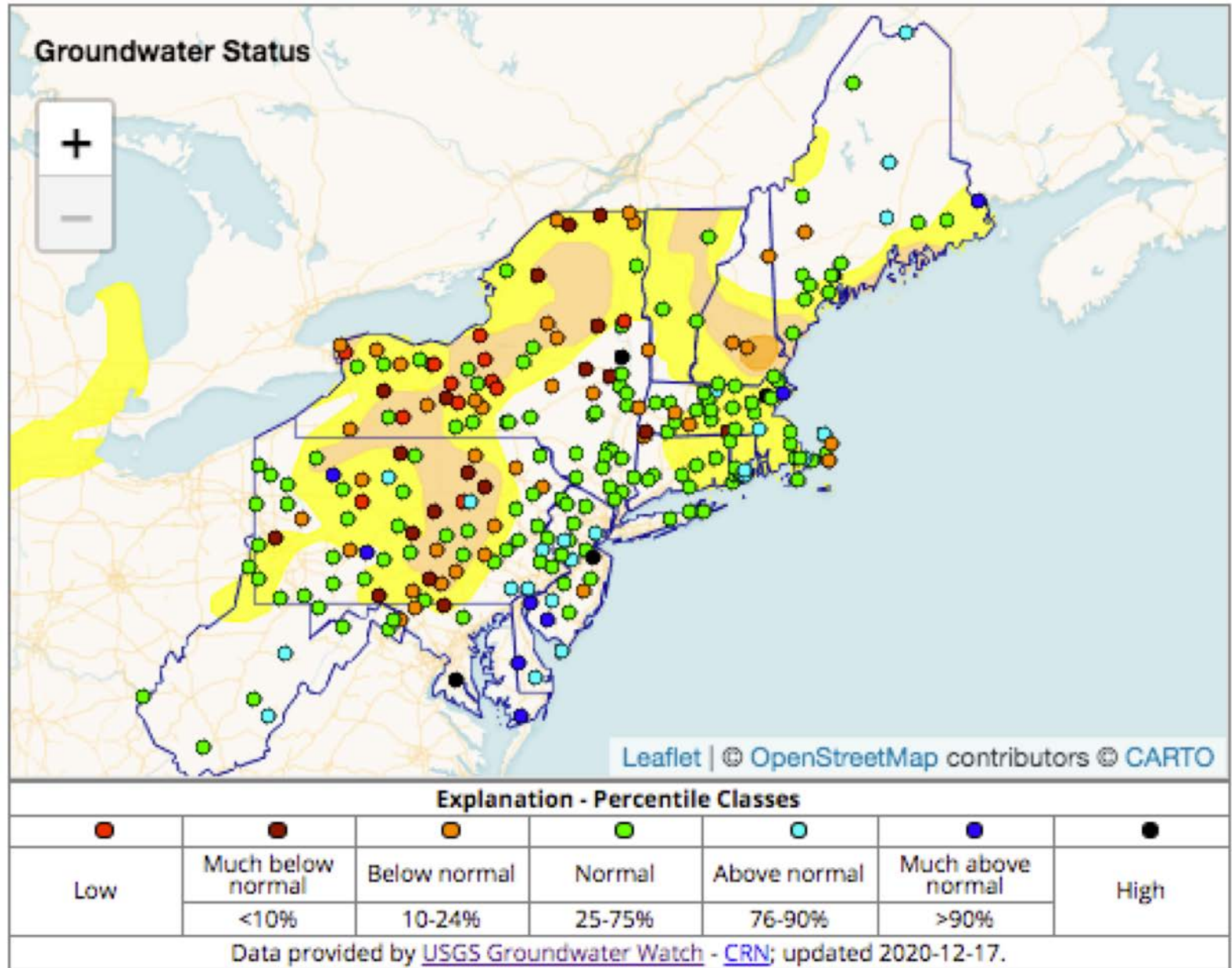




# Streamflow

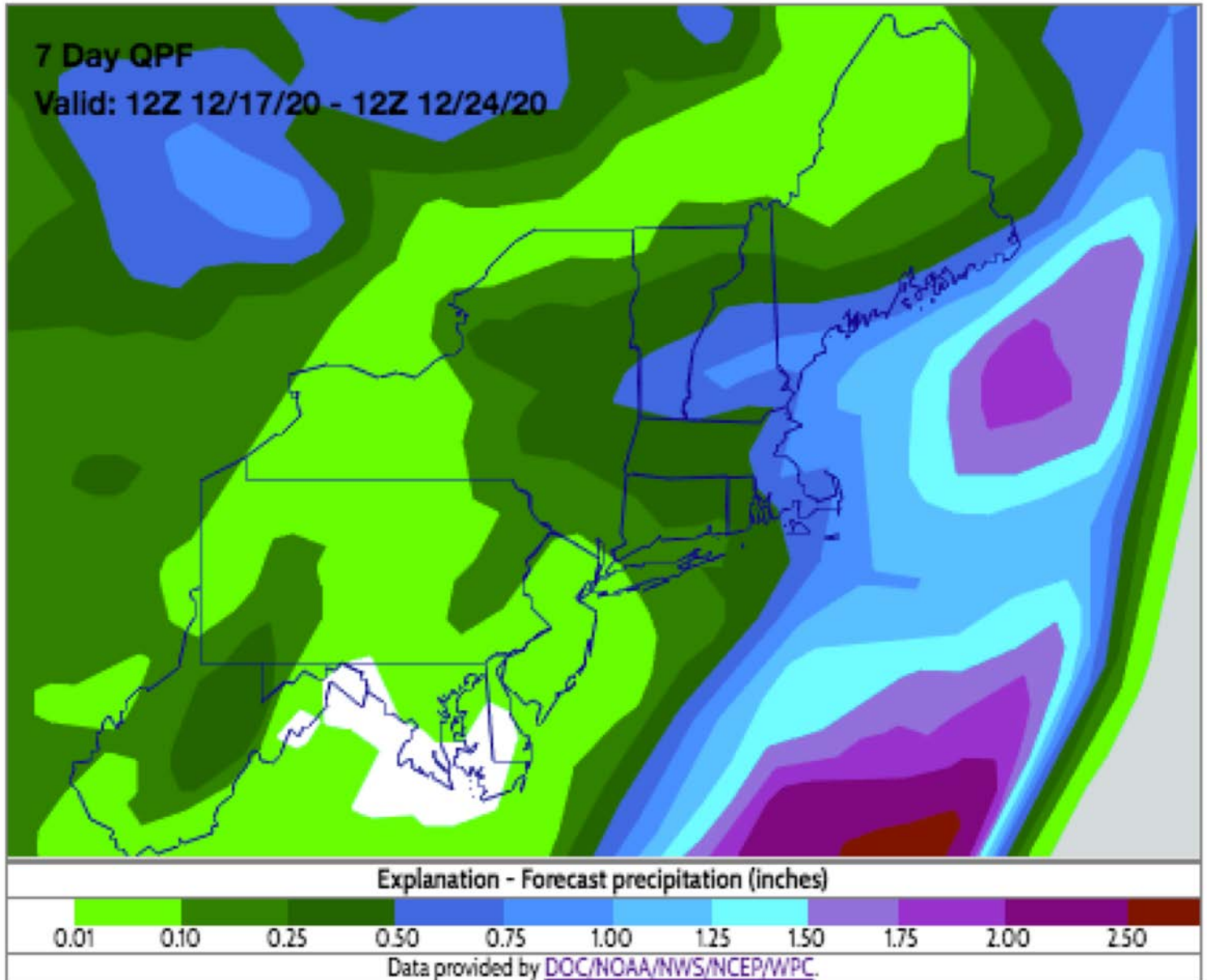


# Groundwater

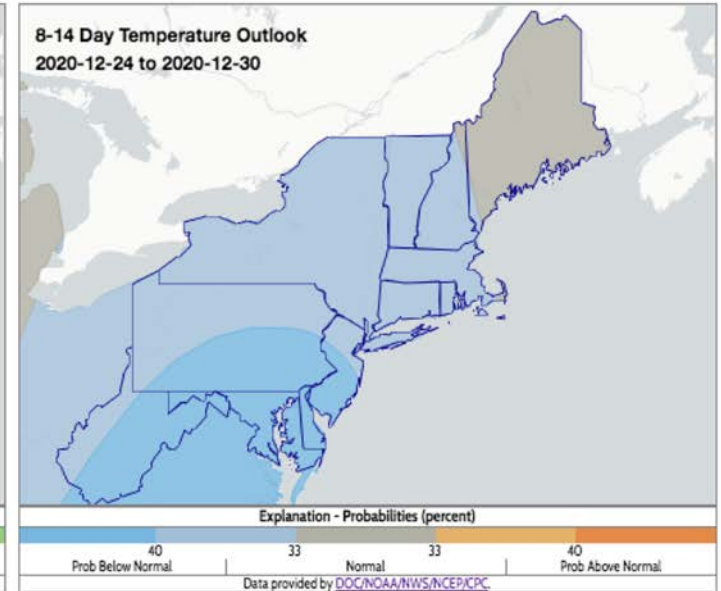
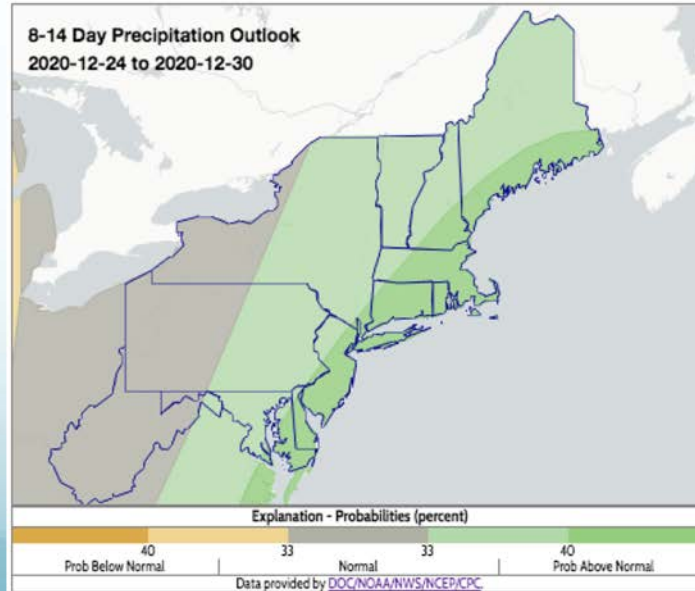
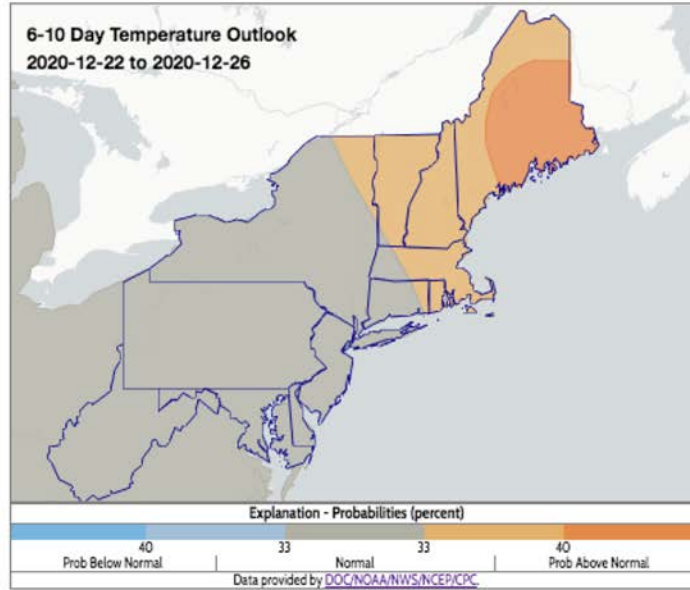
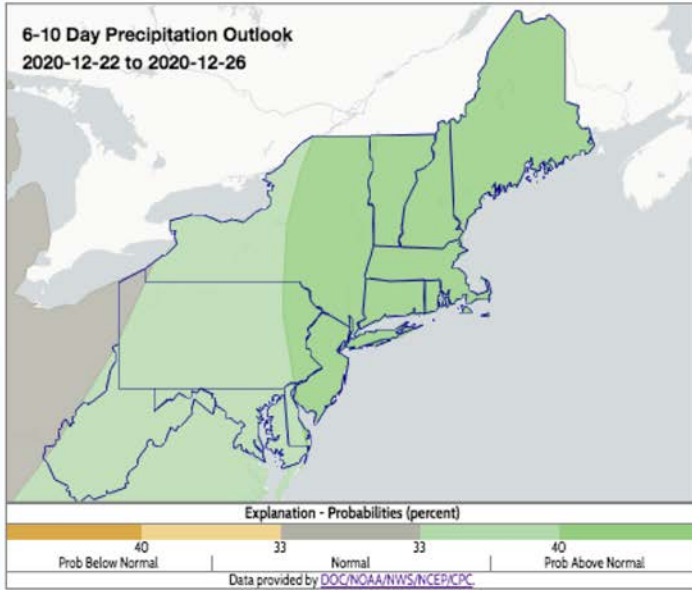




# Precipitation Forecast



# Short-term Outlooks





# Contact Information

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

## Upcoming Webinars

- Thursday, January 28 at 9:30am
  - CMIP6 models and applications
- Thursday, February 25 at 9:30am
  - U.S. Drought Monitor – Author Perspectives

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

