

December Recap & Northeast DEWS Discussion

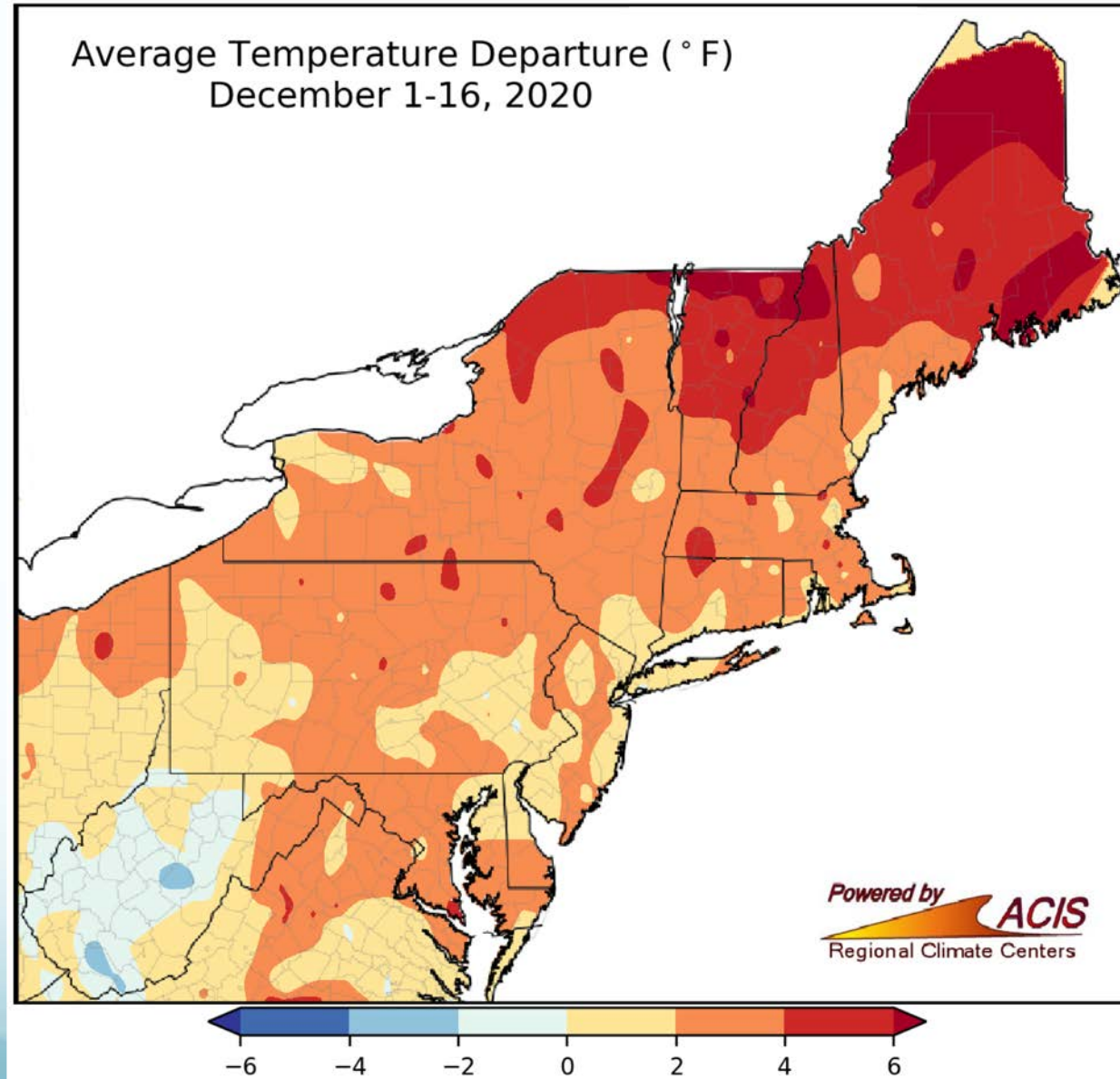
By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



Northeast Regional
Climate Center



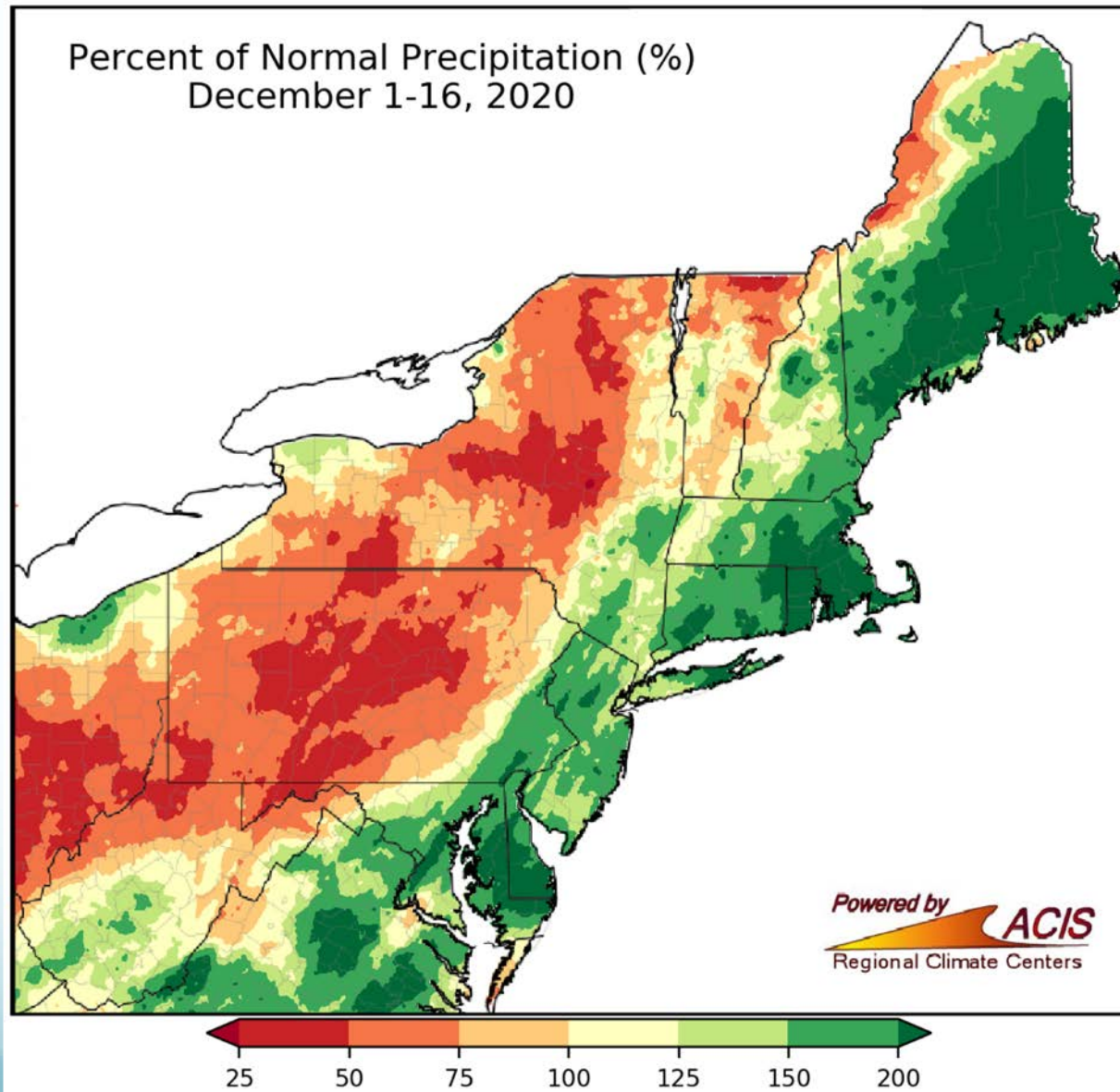
December Temperatures



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



December Precipitation

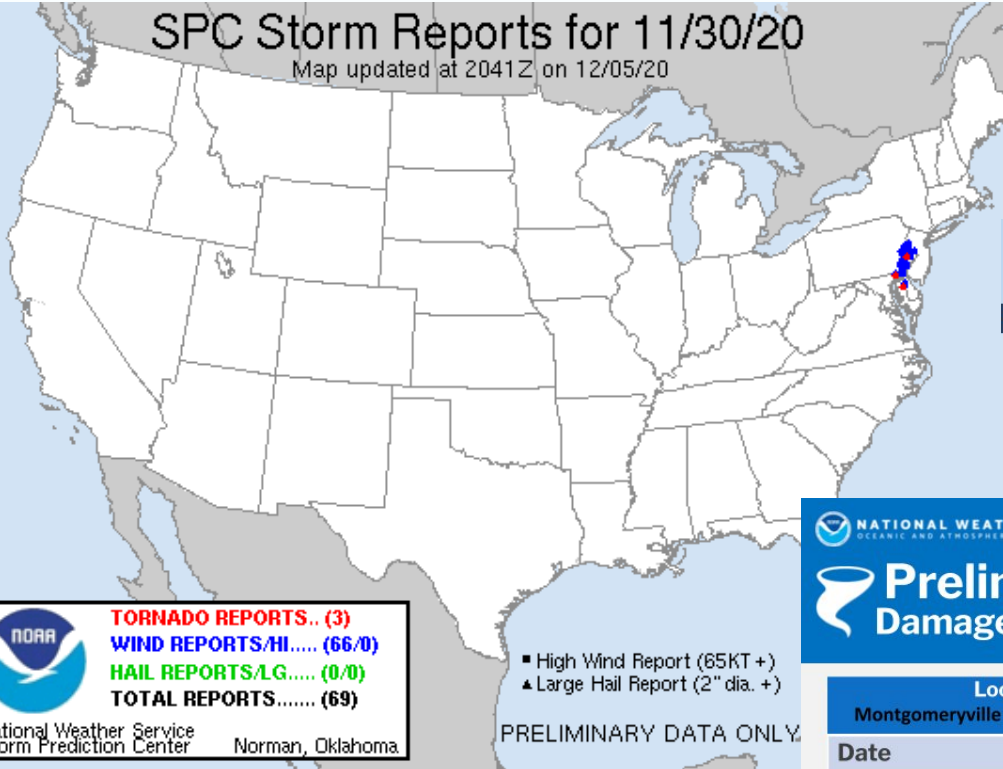


From 25% of normal to more than 200% of normal

December Storms

SPC Storm Reports for 11/30/20

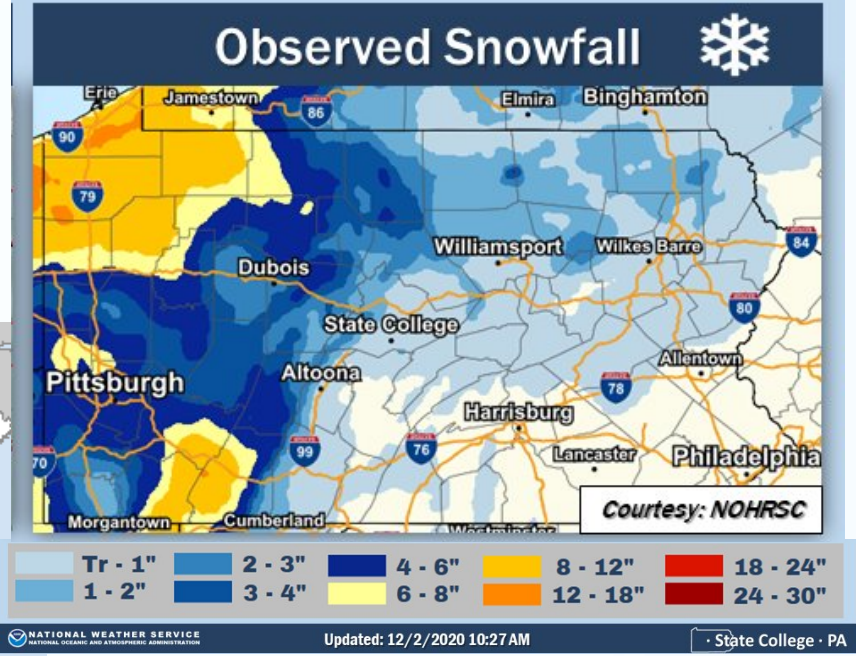
Map updated at 2041Z on 12/05/20



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

National Weather Service
 Storm Prediction Center Norman, Oklahoma

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



Preliminary Damage Survey Results

Location Info:
 Montgomeryville - Montgomery County, PA

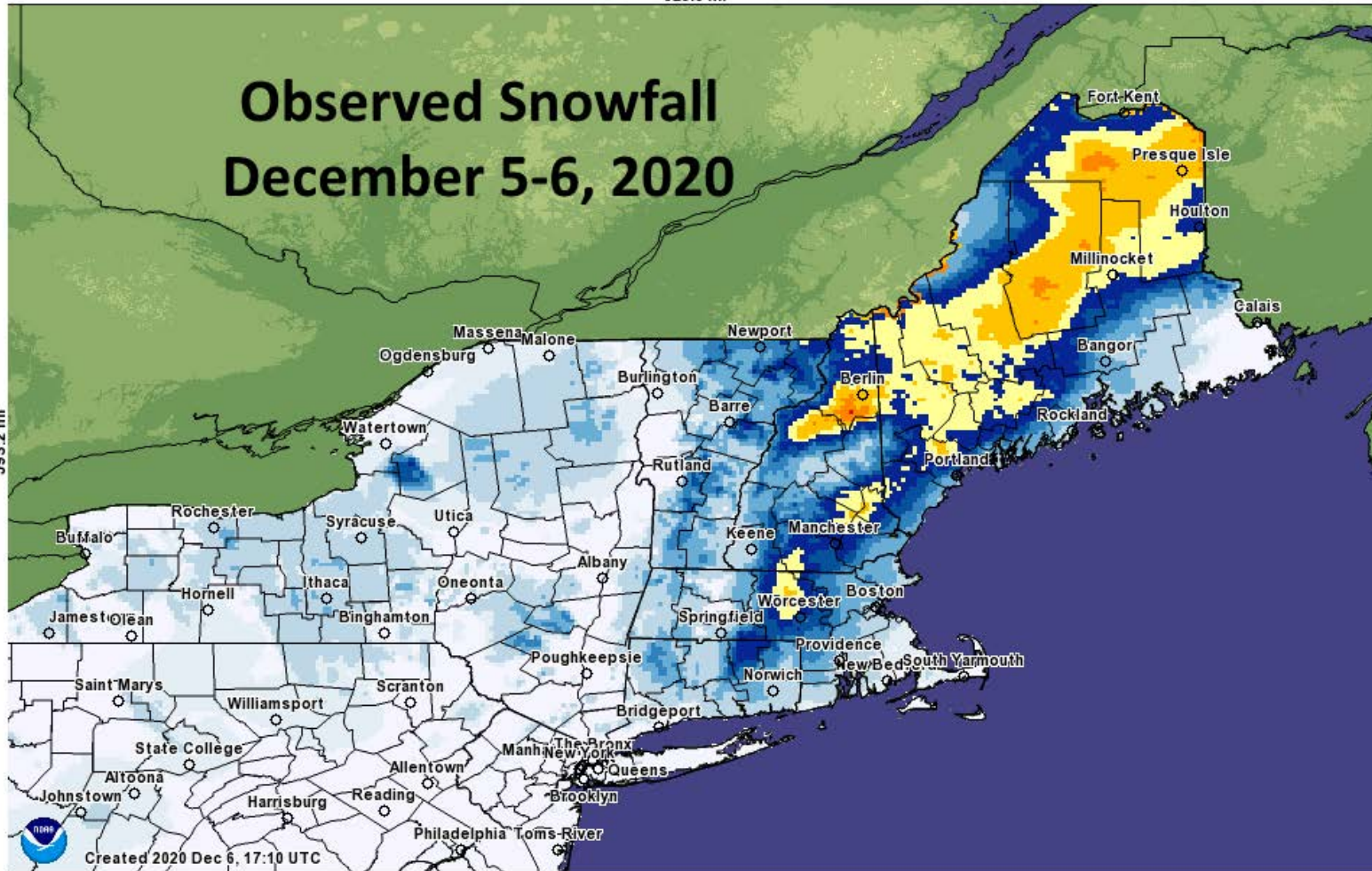
Date	11/30/20
Time (Local)	3:47-3:48 PM EST
EF Rating	EF-0
Est. Peak Winds	70 mph
Path Length	0.5 miles
Max Width	100 yards
Injuries/Deaths	None



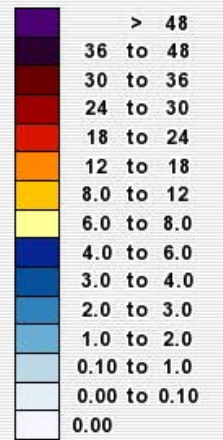
December Storms

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

Observed Snowfall December 5-6, 2020

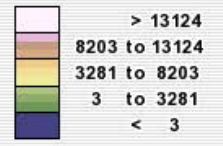


Inches of depth



Not Estimated

Elevation in feet



593.2 mi

593.2 mi

723.7 mi



Created 2020 Dec 6, 17:10 UTC

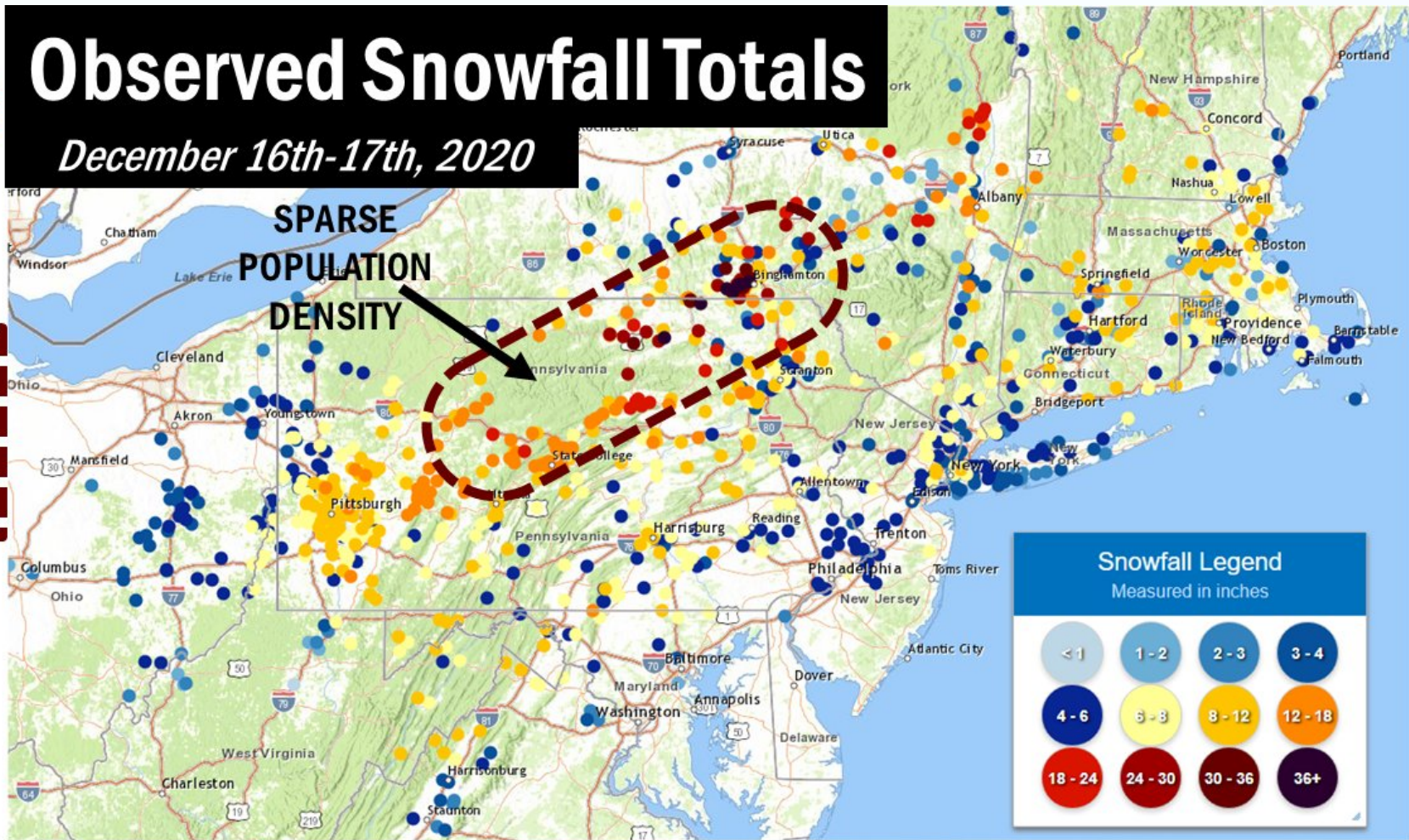


December Storms



Observed Snowfall Totals

December 16th-17th, 2020



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



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www.weather.gov/ctp



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	40.5	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
NWS BINGHAMTON	40.0	IN	0730 AM 12/17	NWS EMPLOYEE
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)

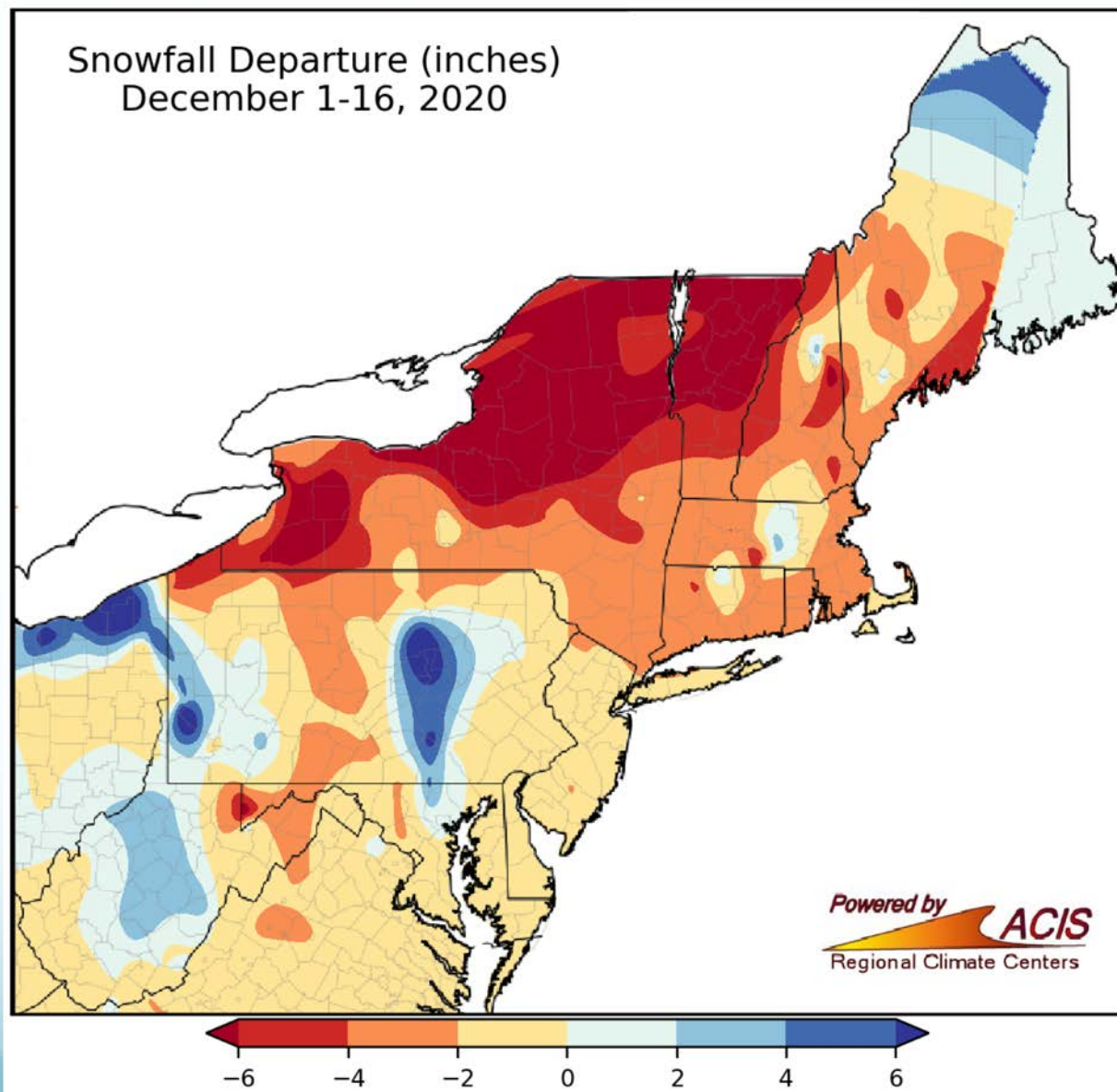
Click column heading to sort ascending, click again to sort descending.

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

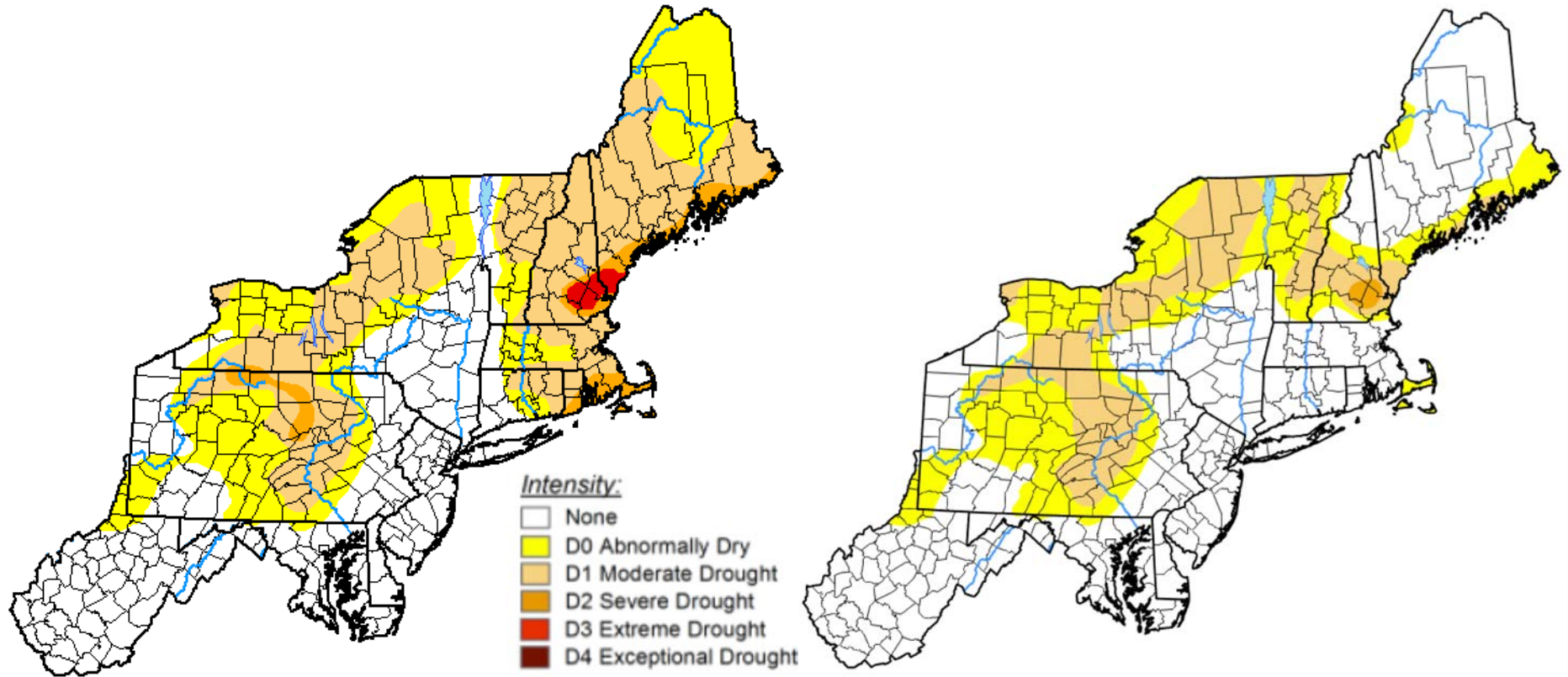


December Snowfall



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

Drought Monitor



November 17:

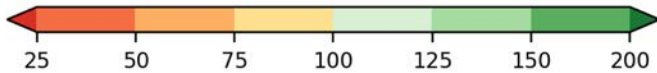
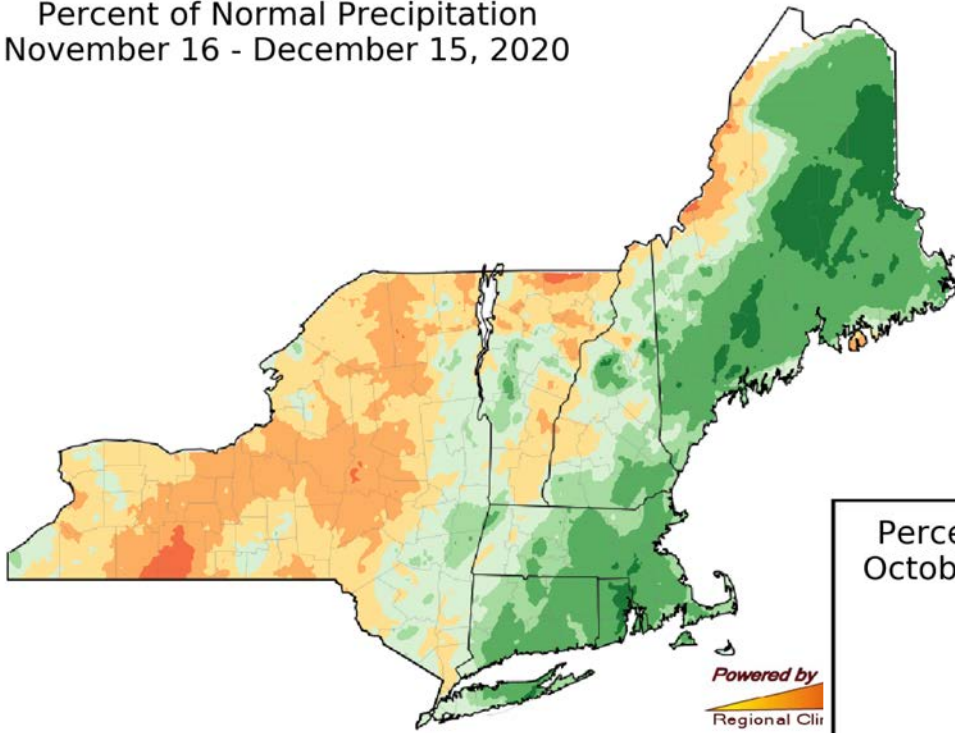
34% of the region was in a drought
25% was abnormally dry

December 15:

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

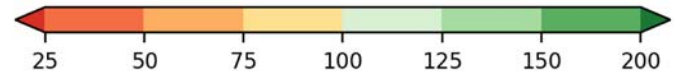
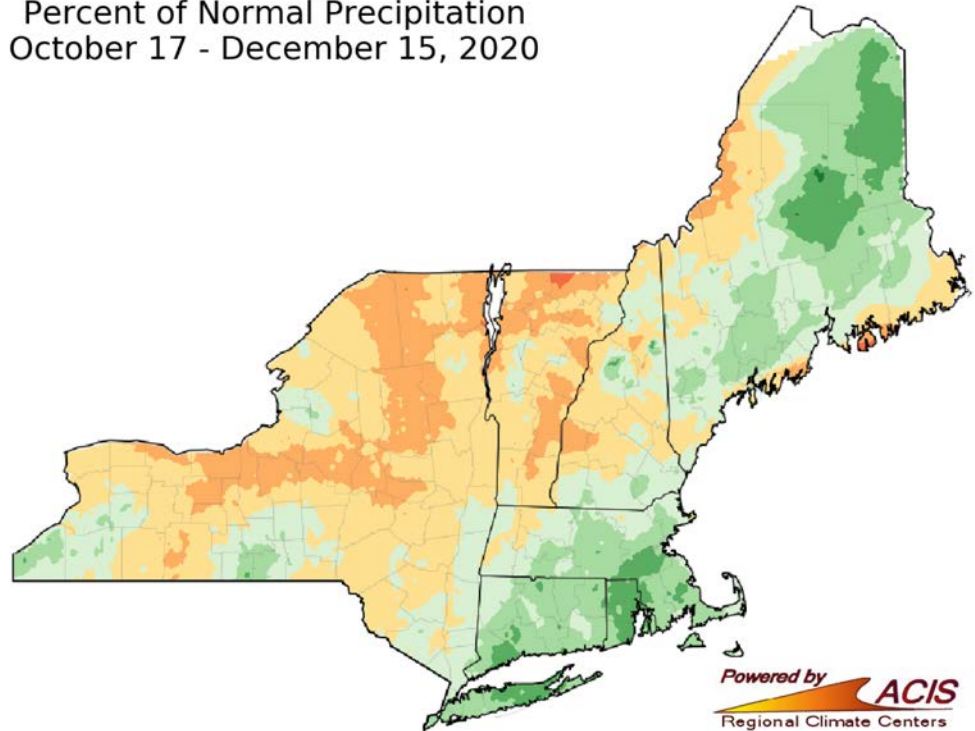


Percent of Normal Precipitation
November 16 - December 15, 2020

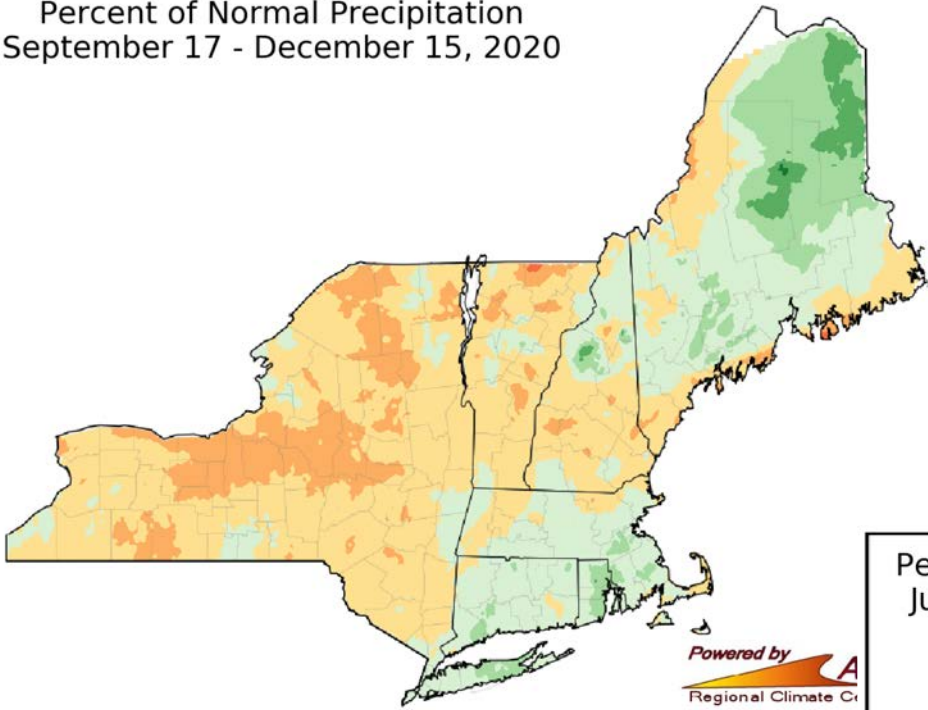


Precipitation

Percent of Normal Precipitation
October 17 - December 15, 2020



Percent of Normal Precipitation
September 17 - December 15, 2020

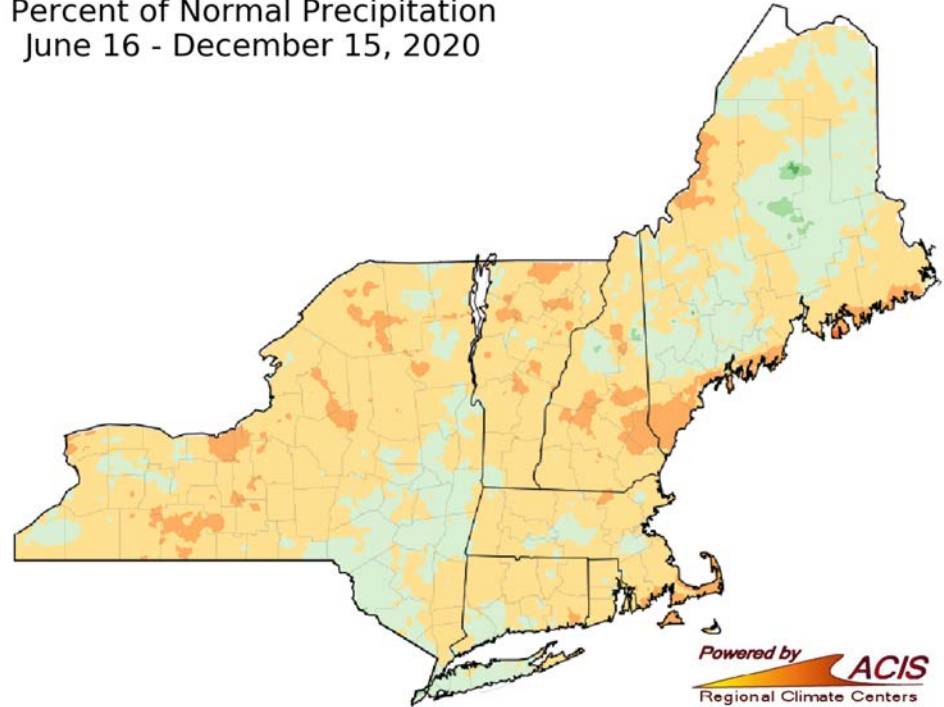


Powered by
Regional Climate C

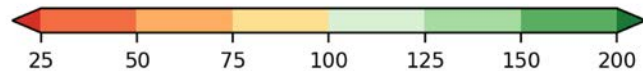


Precipitation

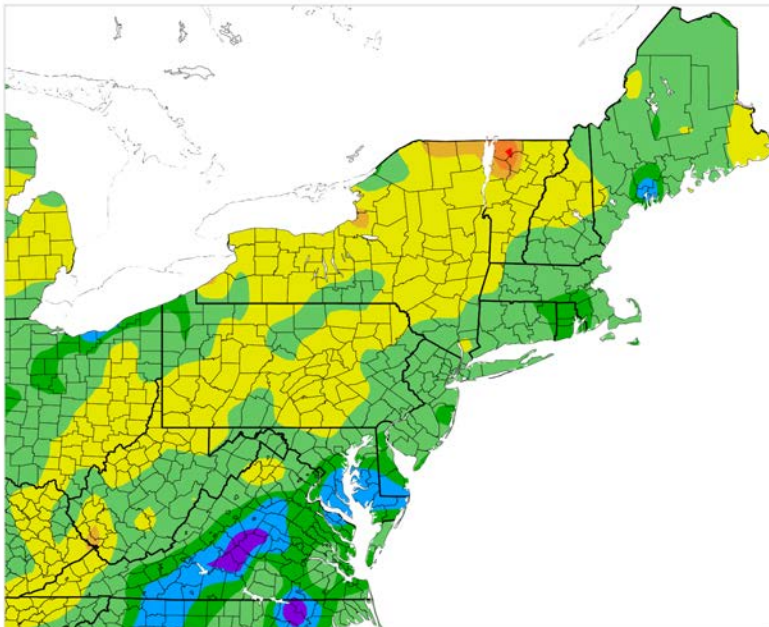
Percent of Normal Precipitation
June 16 - December 15, 2020



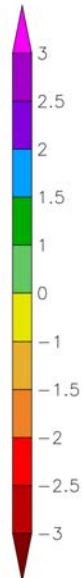
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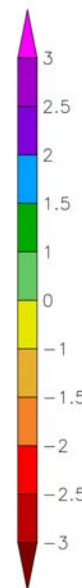
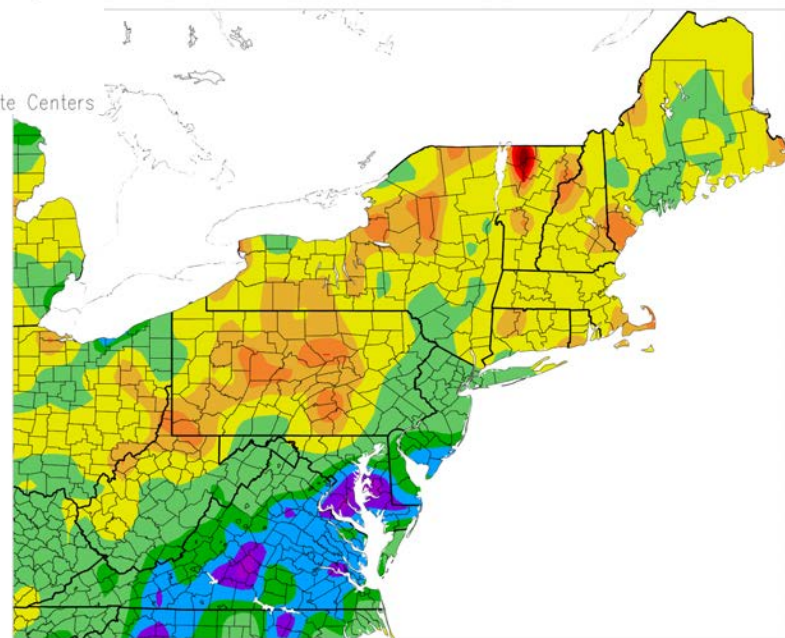
60 Day SPI
10/17/2020 - 12/15/2020



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.

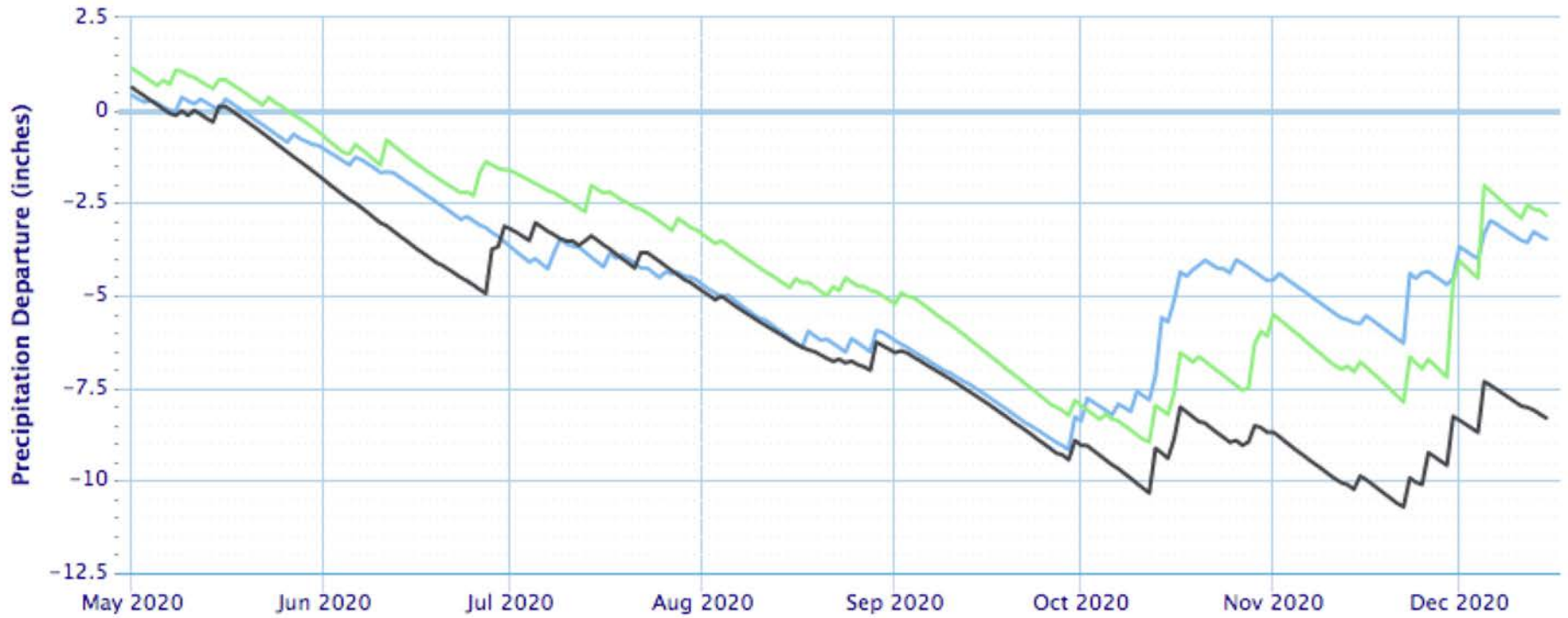
NOAA Regional Climate Centers



Precipitation

Accumulated Precipitation Departure from Normal

Green/black diamonds represent subsequent/missing values



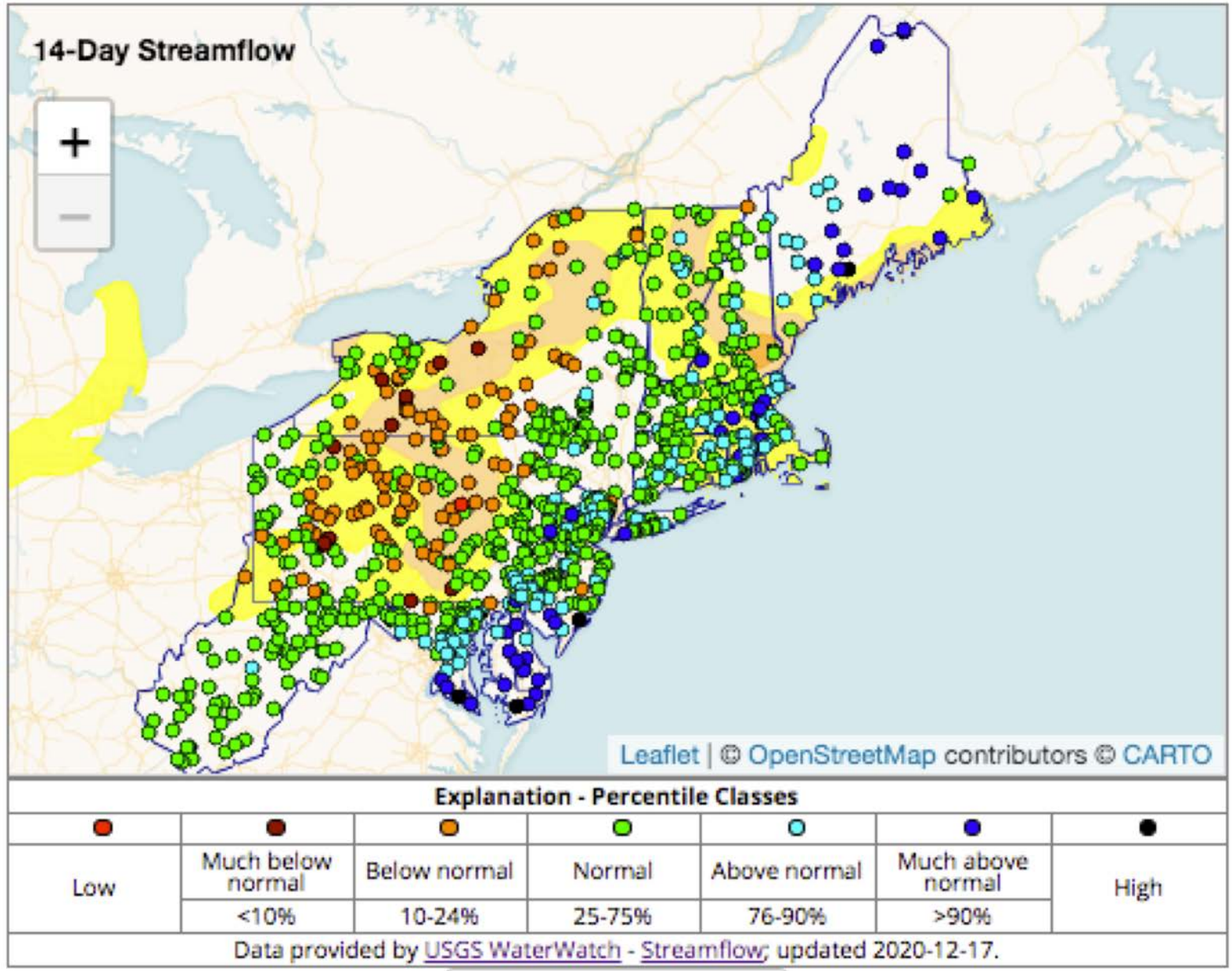
(Click to hide/show lines)

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

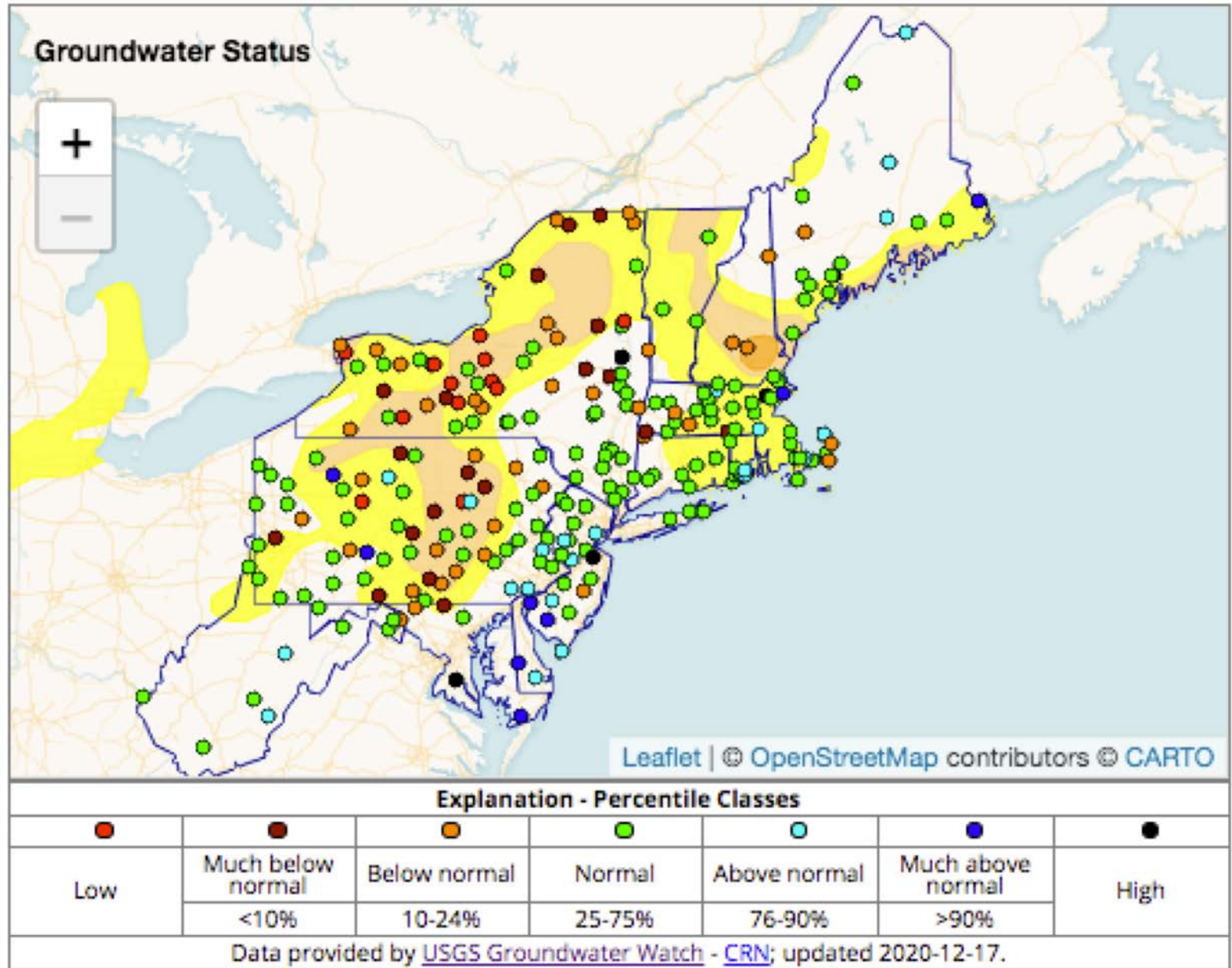
Powered by ACIS



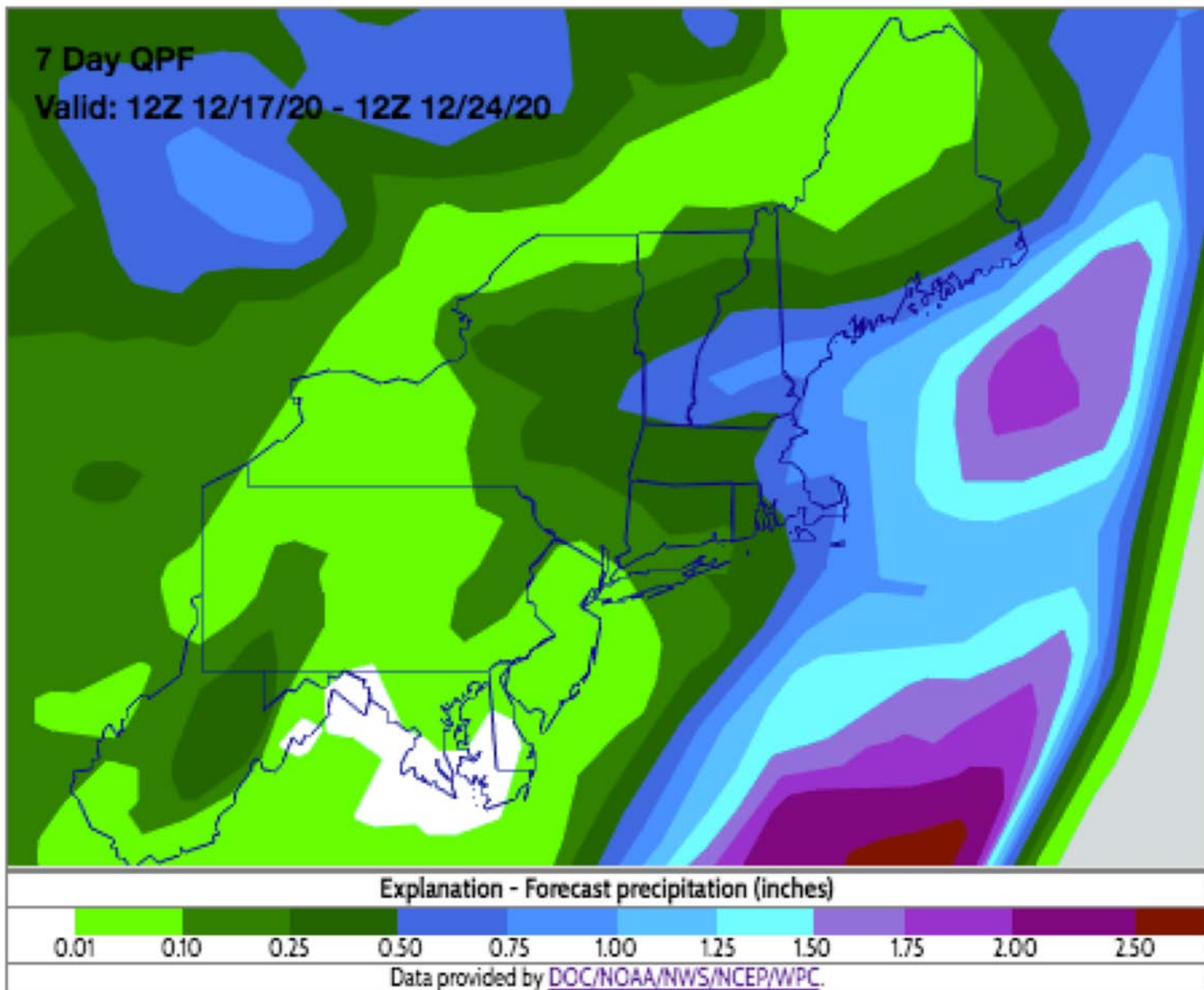
Streamflow



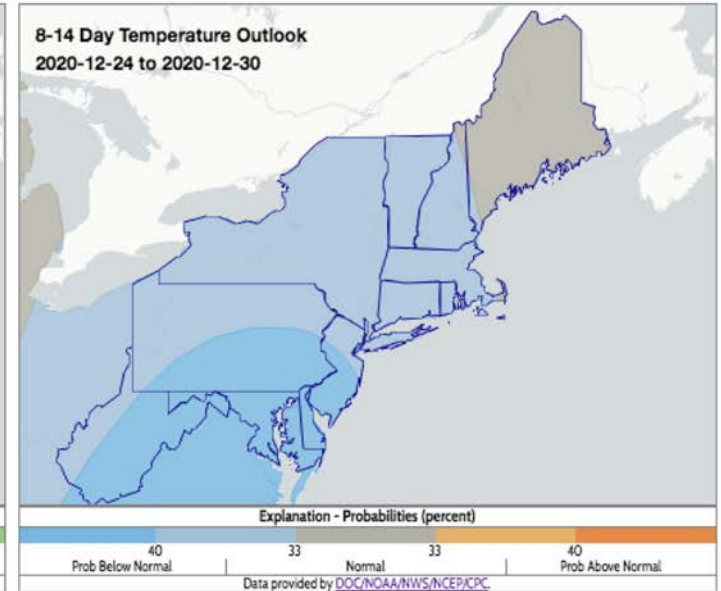
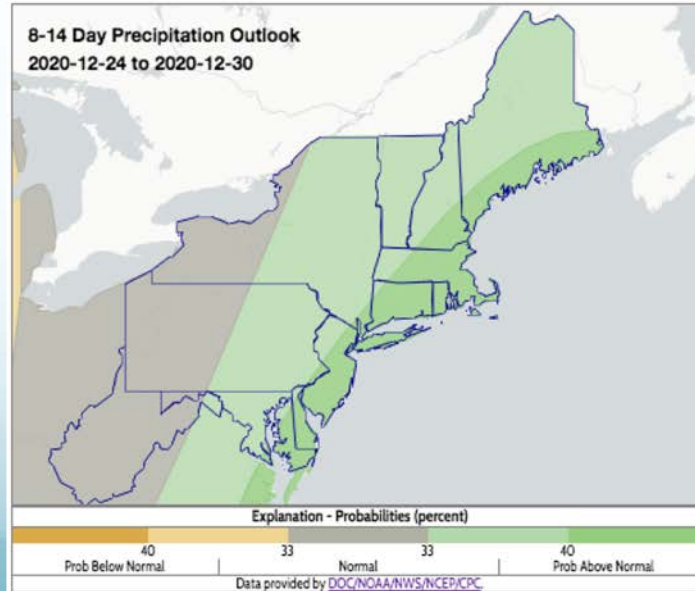
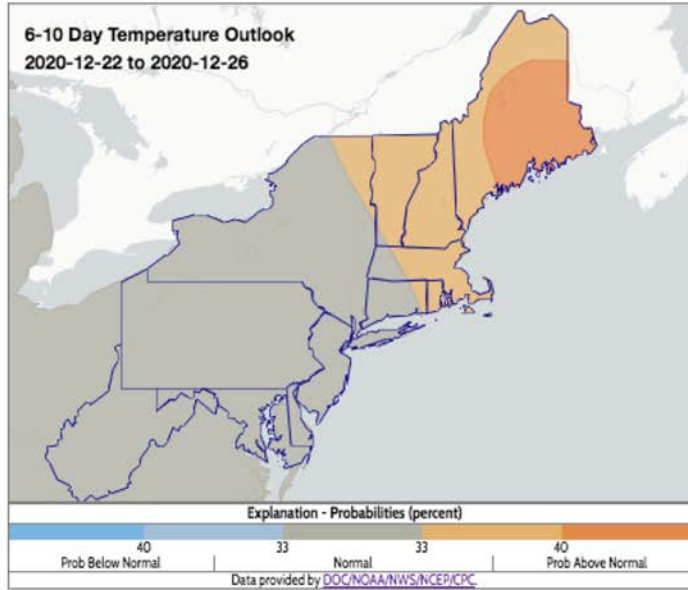
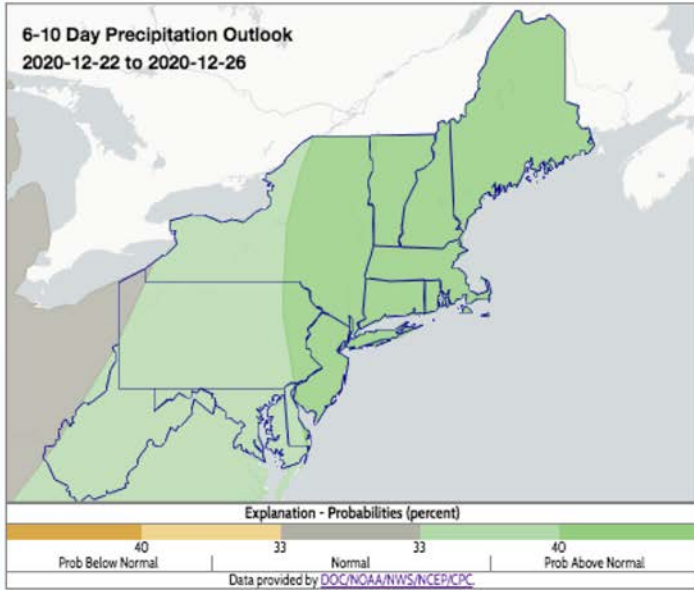
Groundwater



Precipitation Forecast



Short-term Outlooks



Contact Information

- nrcc@cornell.edu
- 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

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