

January Recap & Northeast DEWS Discussion

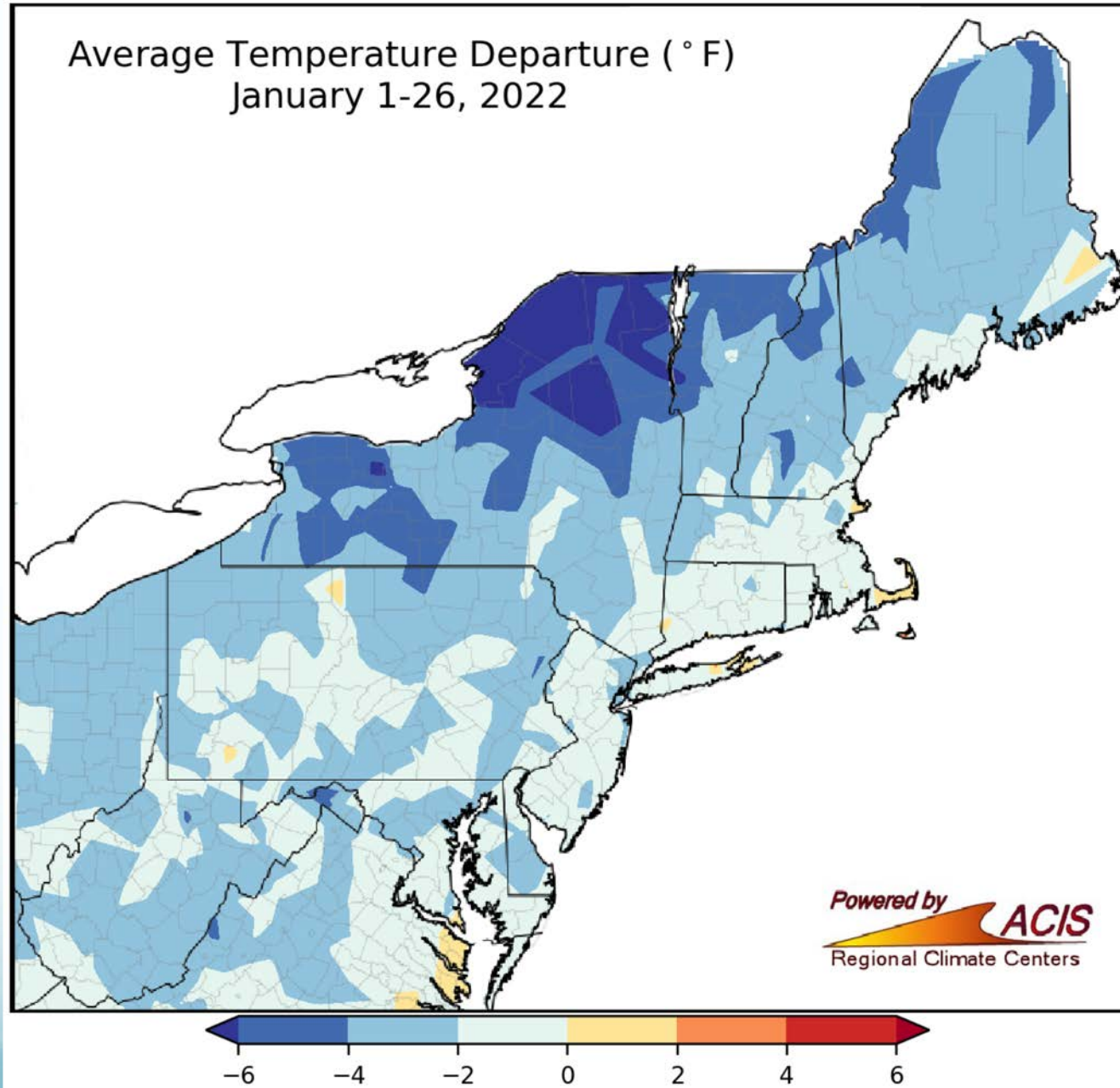
By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



Northeast Regional
Climate Center

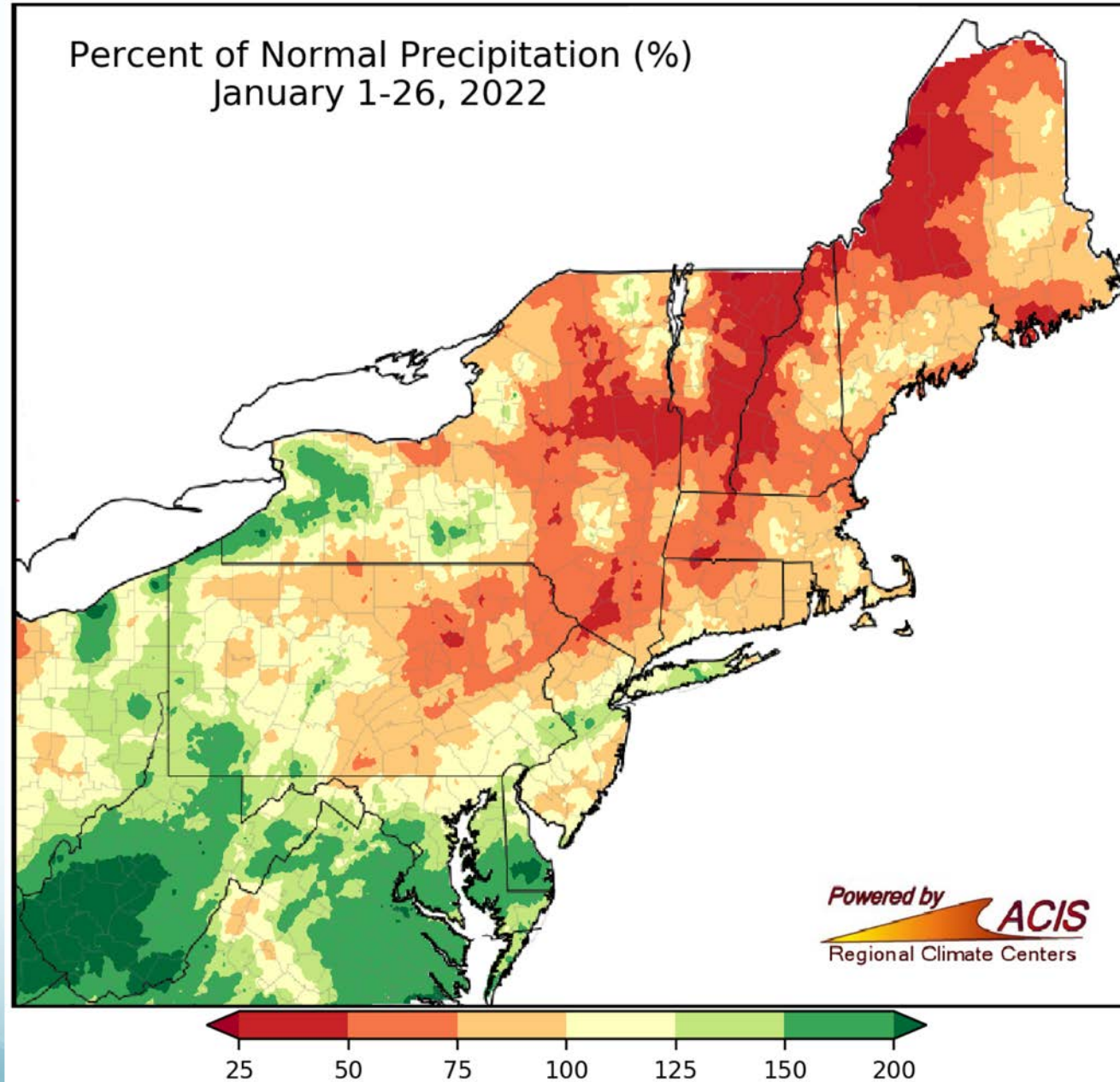


January Temperatures



From more than 6°F below normal to near normal

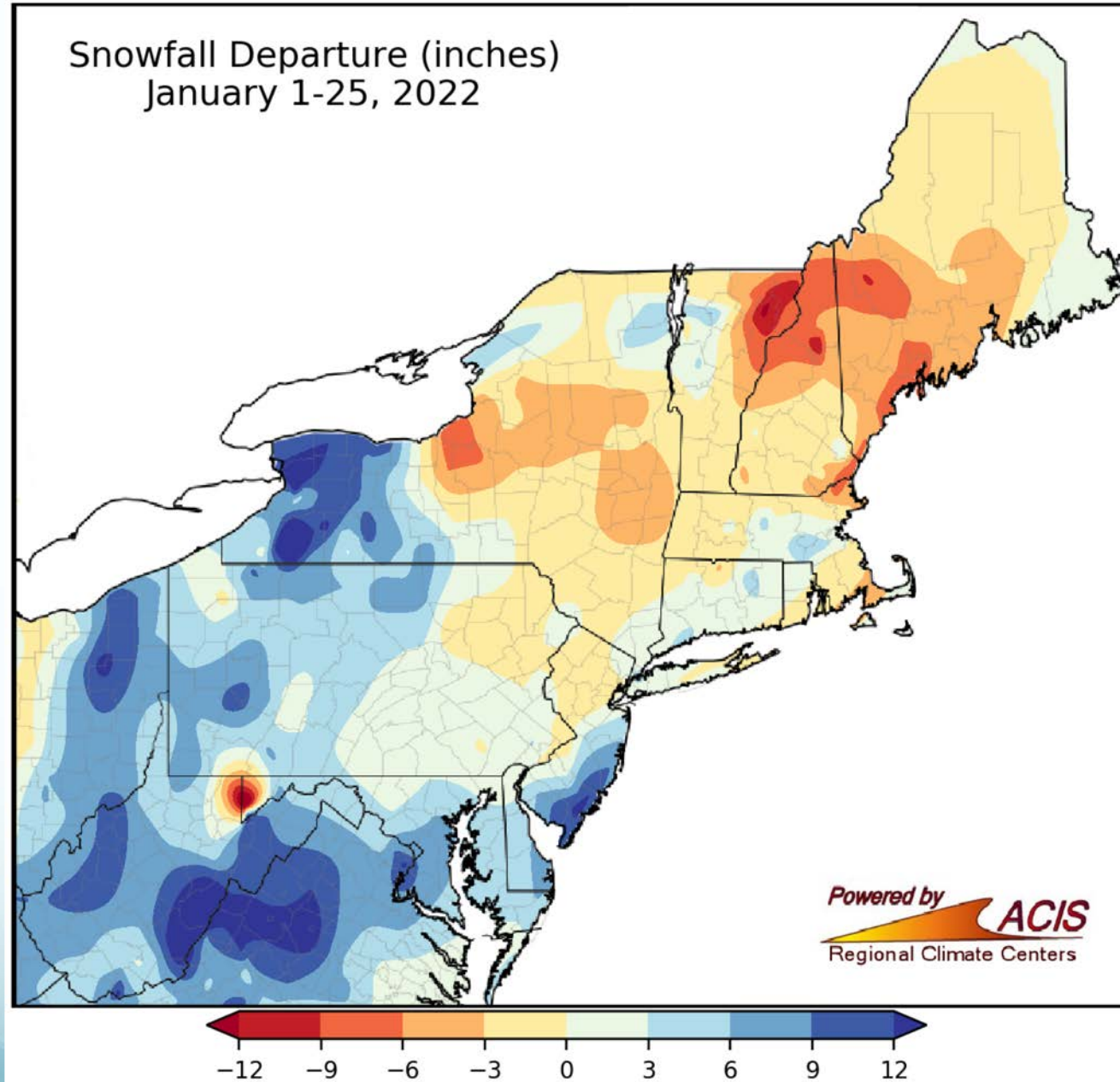
January Precipitation



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

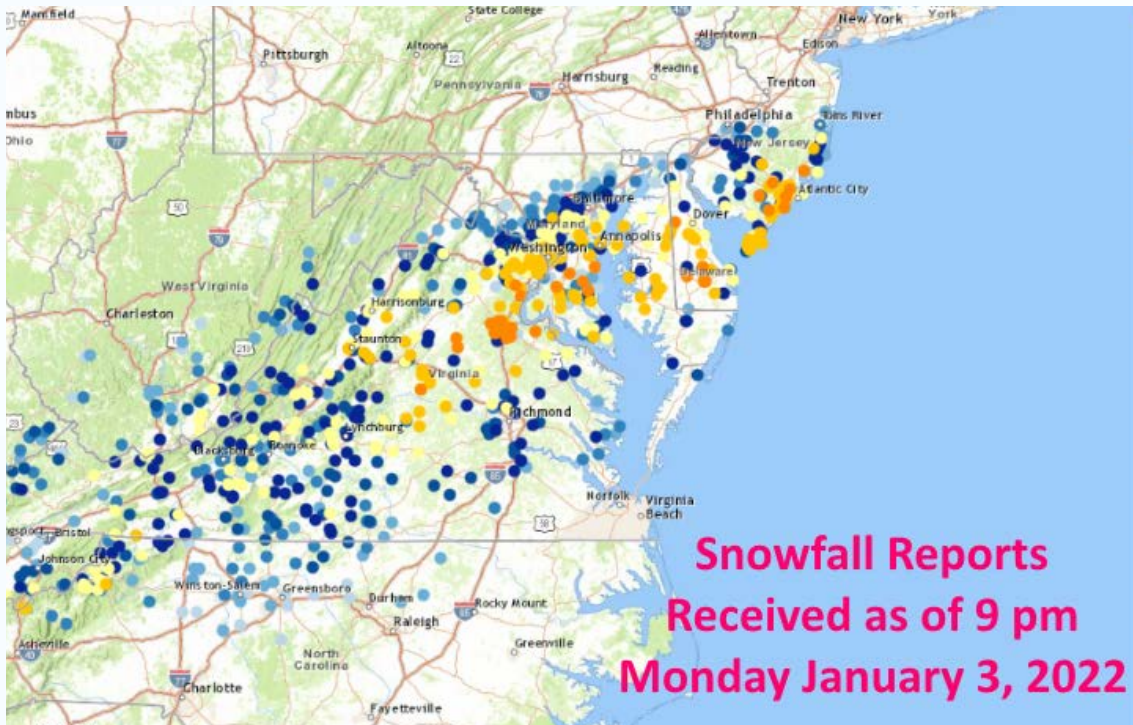


January Snowfall



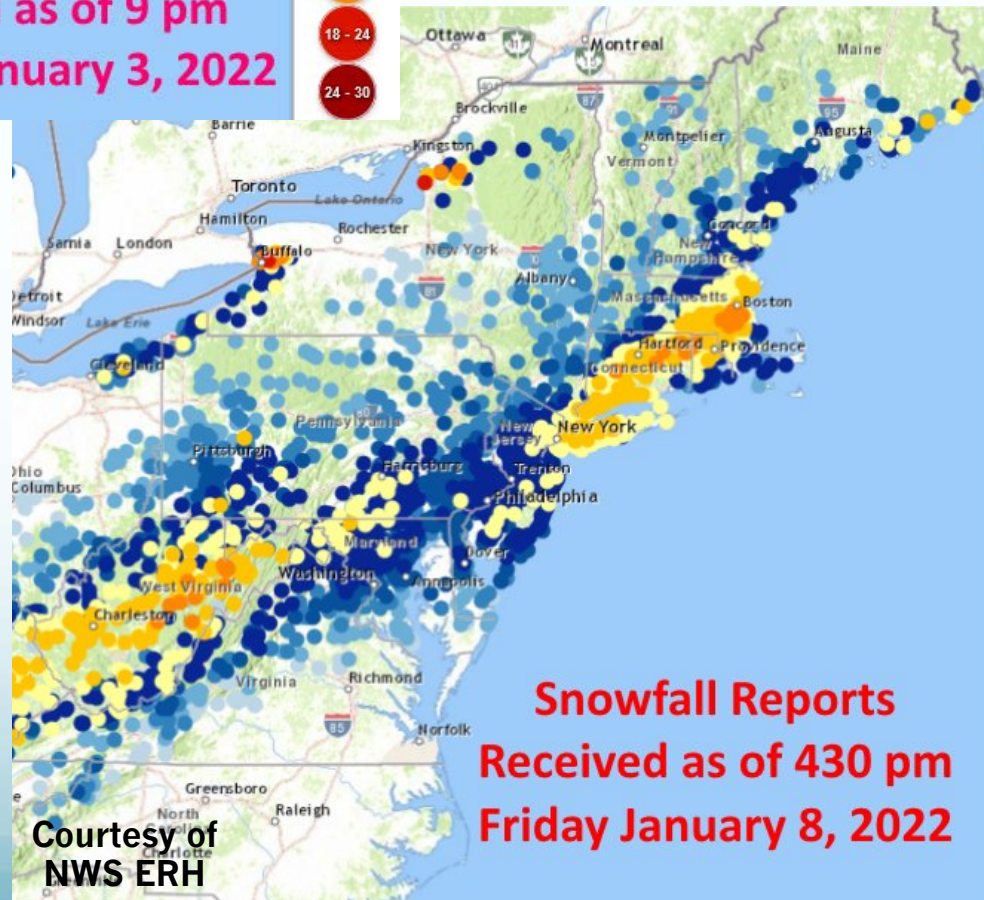
From more than 6" below normal to more than 12" above normal

January Storms



**Snowfall Reports
Received as of 9 pm
Monday January 3, 2022**

Snowfall
Legend
Measured
in inches



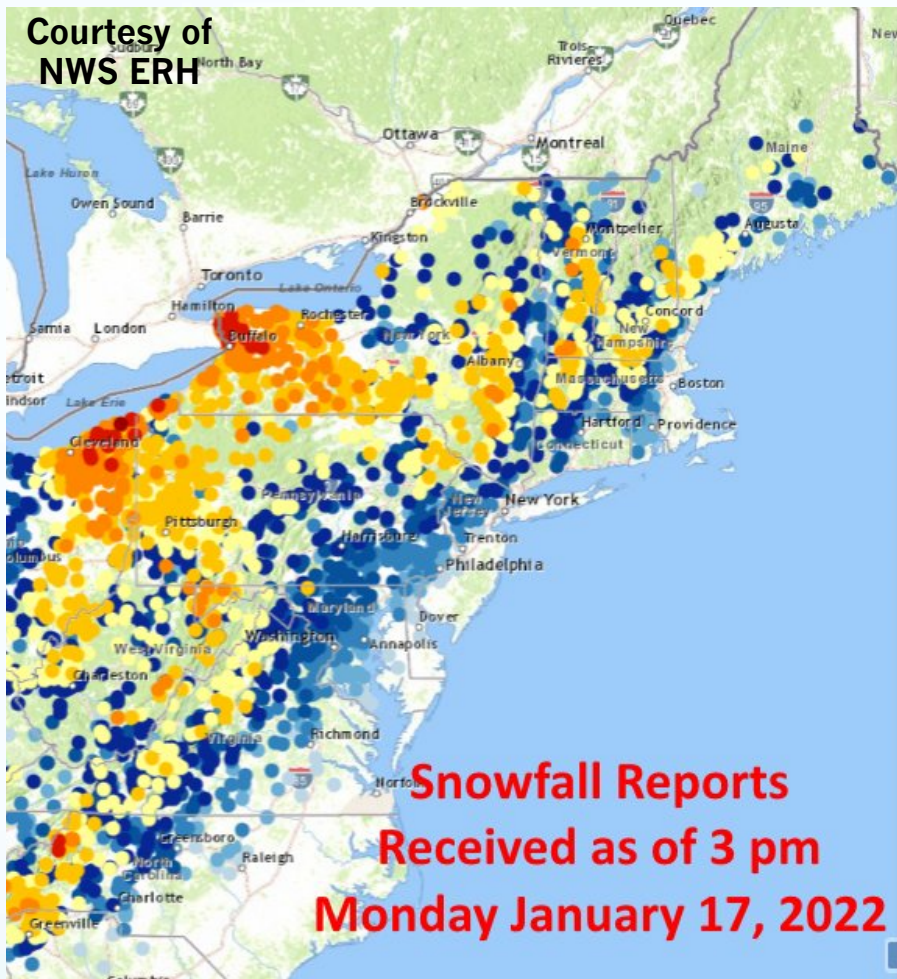
**Snowfall Reports
Received as of 4:30 pm
Friday January 8, 2022**

Snowfall
Legend
Measured
in inches



Courtesy of
NWS ERH

Courtesy of
NWS ERH



**Snowfall Reports
Received as of 3 pm
Monday January 17, 2022**

**Snowfall
Legend**
Measured
in inches



January Storms

Maximum 1-Day Total Snowfall for Buffalo Area, NY (ThreadEx)

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

Rank	Value	Ending Date
1	18.3	1982-01-11
2	17.8	2022-01-06
3	17.6	2022-01-17
4	17.4	1902-01-22
5	17.2	2019-01-25
6	16.5	1892-01-06
7	15.6	1985-01-19
8	15.0	1966-01-23
9	14.9	1985-01-21
10	14.0	1928-01-03

Period of record: 1884-09-01 to 2022-01-19



Drought Monitor

U.S. Drought Monitor Northeast

December 28, 2021
(Released Thursday, Dec. 30, 2021)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	77.53	19.05	2.57	0.85	0.00	0.00
Last Week <small>12-21-2021</small>	77.53	20.18	1.44	0.85	0.00	0.00
3 Months Ago <small>09-28-2021</small>	90.30	6.56	2.35	0.80	0.00	0.00
Start of Calendar Year <small>12-29-2020</small>	77.60	18.77	3.63	0.00	0.00	0.00
Start of Water Year <small>09-29-2021</small>	90.30	6.56	2.35	0.80	0.00	0.00
One Year Ago <small>12-29-2020</small>	77.60	18.77	3.63	0.00	0.00	0.00

Intensity:

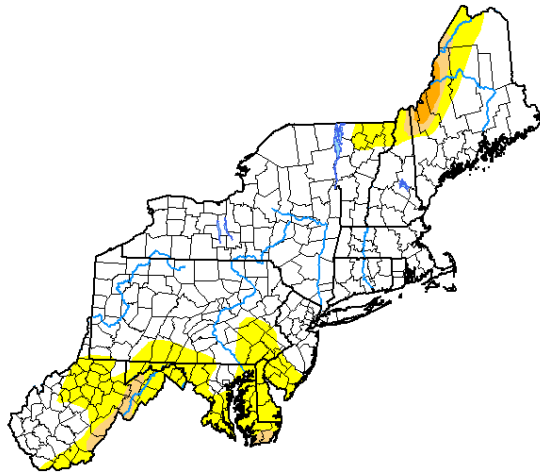
- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:
Brad Pugh
CPC/NOAA



droughtmonitor.unl.edu



U.S. Drought Monitor Northeast

January 25, 2022
(Released Thursday, Jan. 27, 2022)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	89.35	8.61	1.19	0.85	0.00	0.00
Last Week <small>01-18-2022</small>	87.46	10.50	1.19	0.85	0.00	0.00
3 Months Ago <small>10-26-2021</small>	86.61	10.46	1.87	1.07	0.00	0.00
Start of Calendar Year <small>01-04-2022</small>	84.91	12.92	1.32	0.85	0.00	0.00
Start of Water Year <small>09-29-2021</small>	90.30	6.56	2.35	0.80	0.00	0.00
One Year Ago <small>01-26-2021</small>	79.64	15.75	4.60	0.00	0.00	0.00

Intensity:

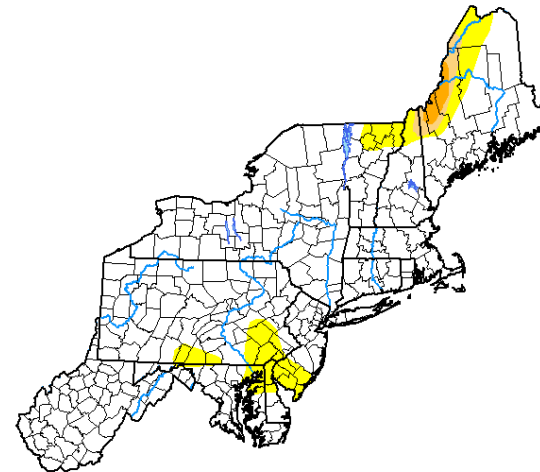
- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:
Brad Rippey
U.S. Department of Agriculture



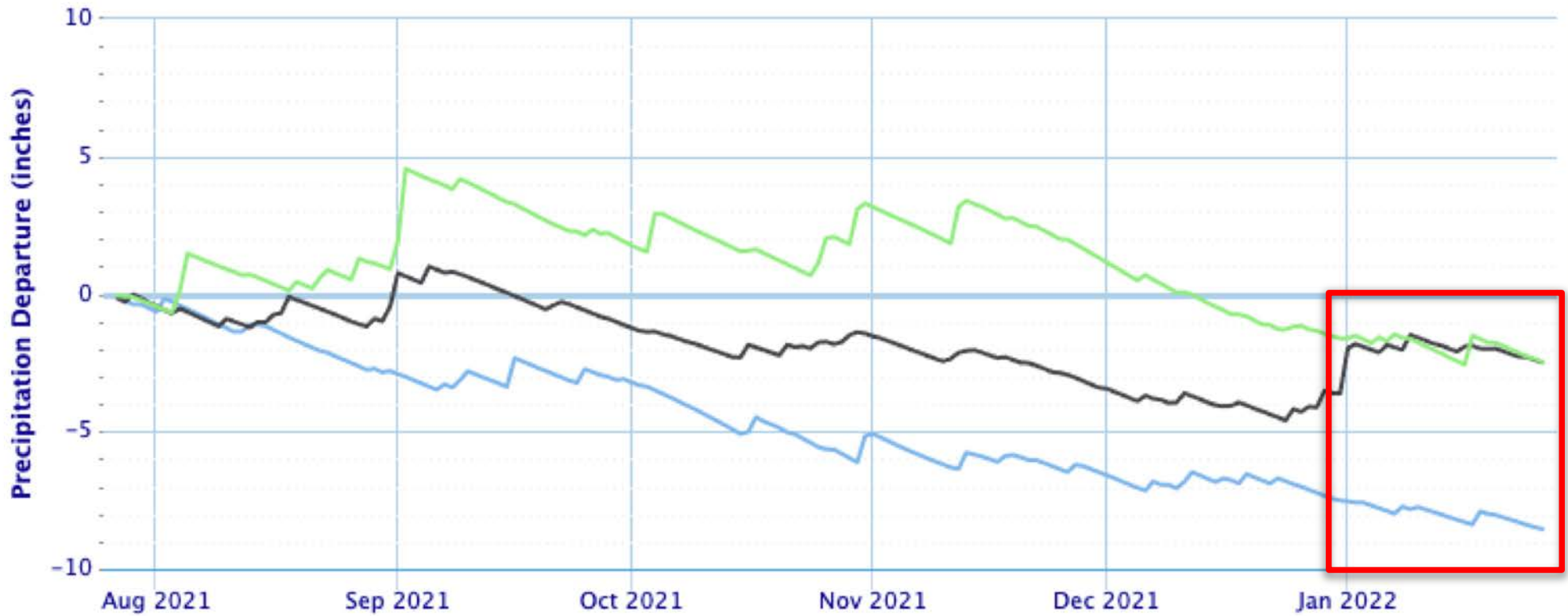
droughtmonitor.unl.edu



Precipitation

Accumulated Precipitation Departure from Normal

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

— RANGELEY, ME:Precip Dprt

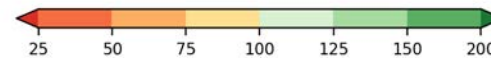
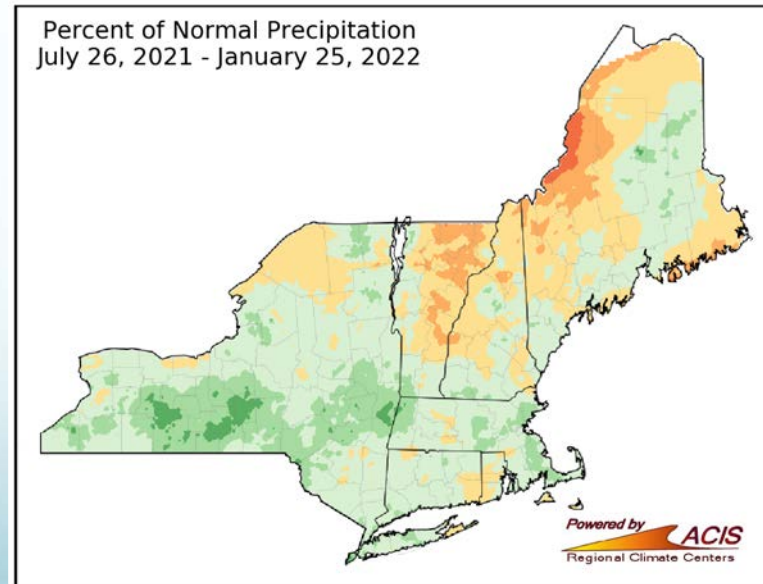
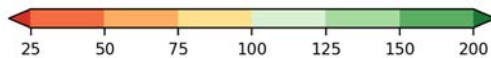
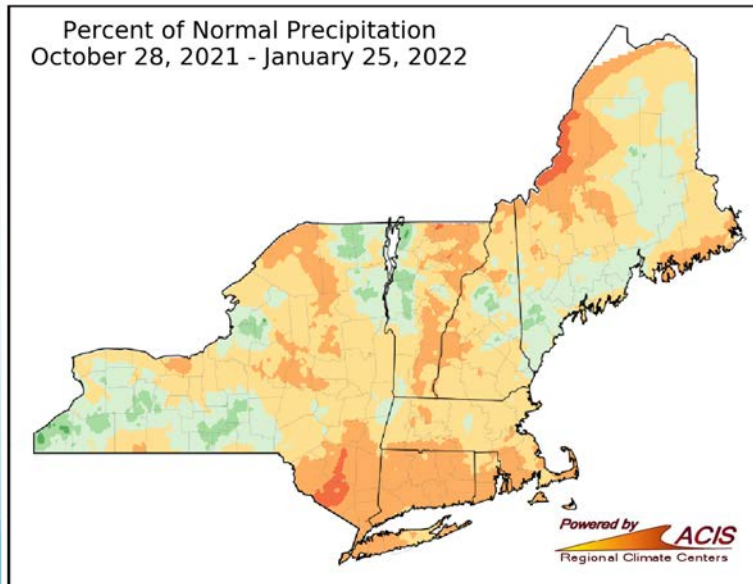
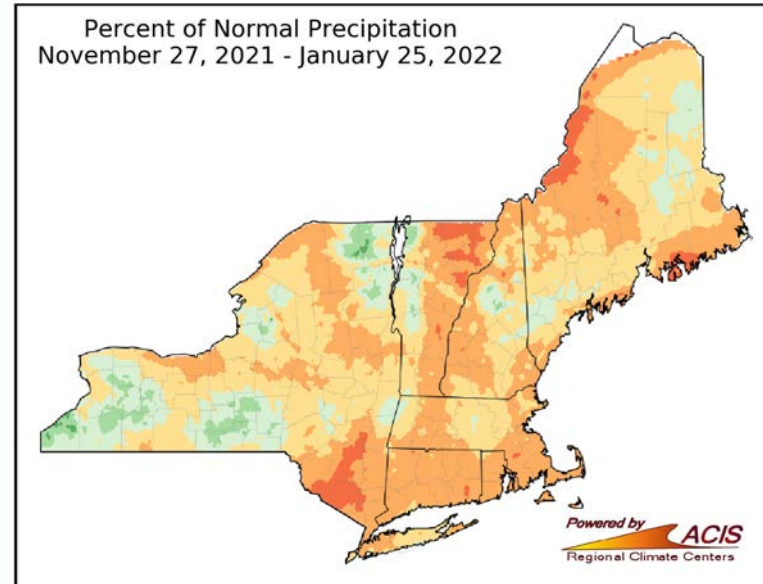
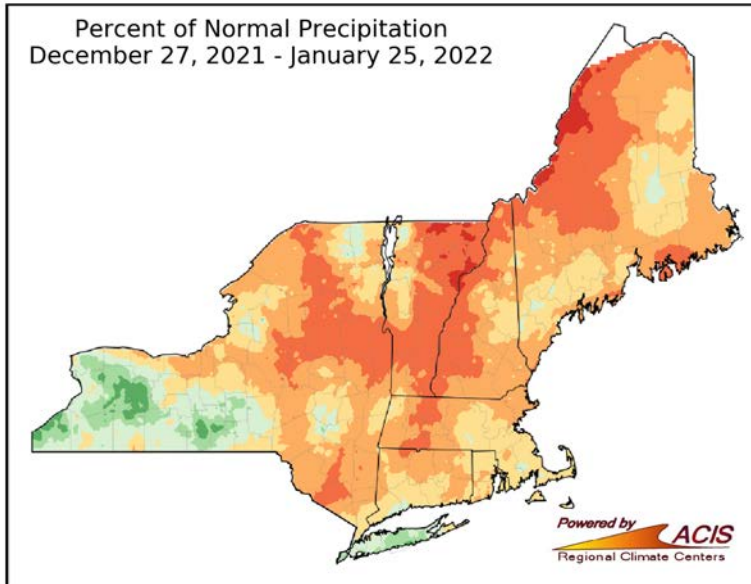
— CLARKSBURG BENEDUM AP, WV:Precip Dprt

— Providence Area, RI (ThreadEx):Precip Dprt

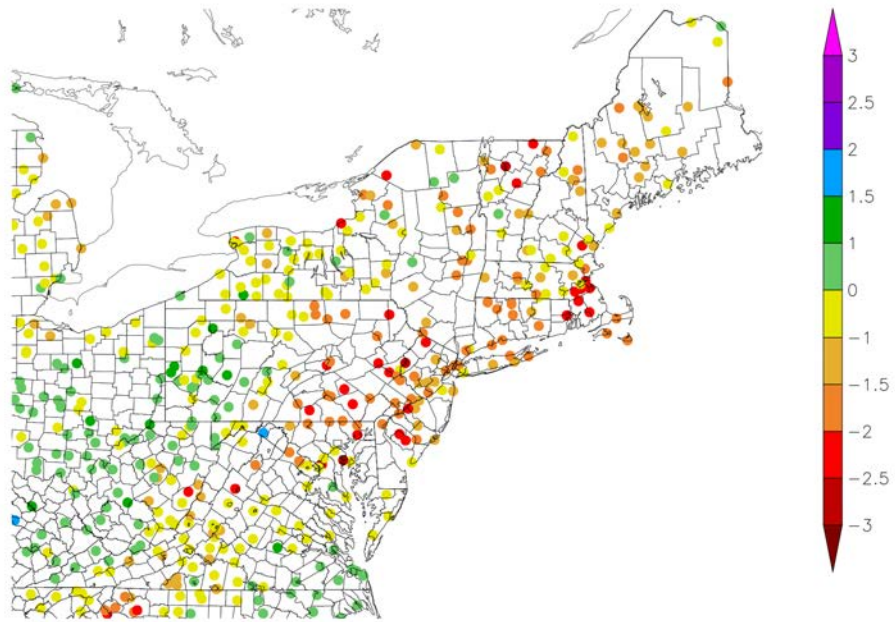
Powered by ACIS



Precipitation



60 Day SPI
11/27/2021 - 1/25/2022

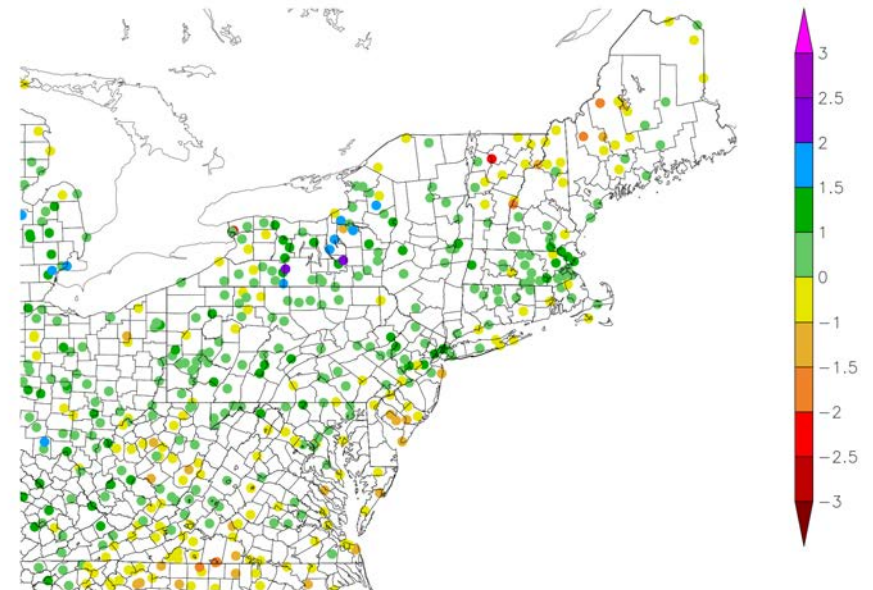


Generated 1/26/2022 at HPRCC using provisional data.

NOAA Regional Climate Centers

Standardized Precipitation Index

6 Month SPI
7/25/2021 - 1/24/2022

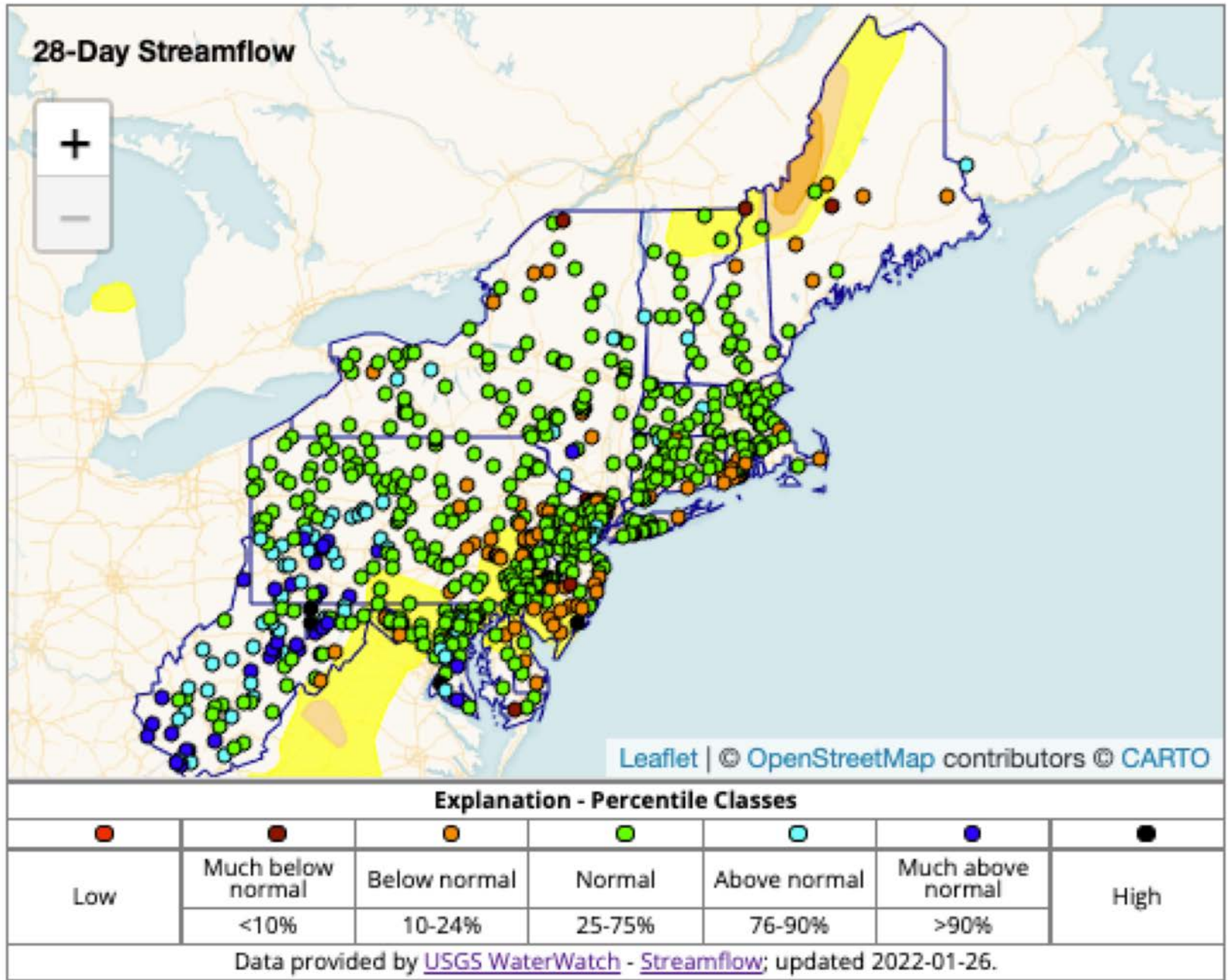


Generated 1/25/2022 at HPRCC using provisional data.

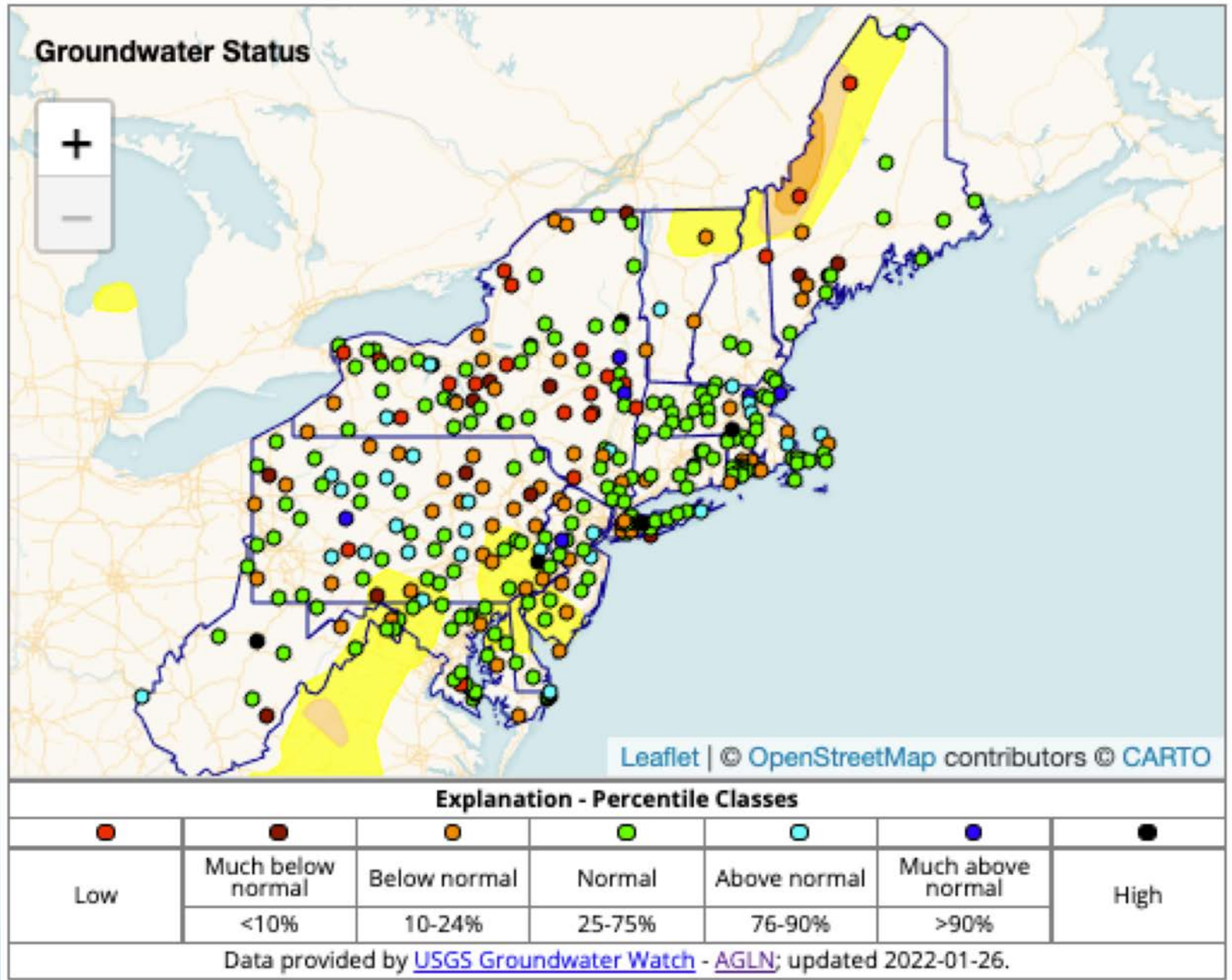
NOAA Regional Climate Centers



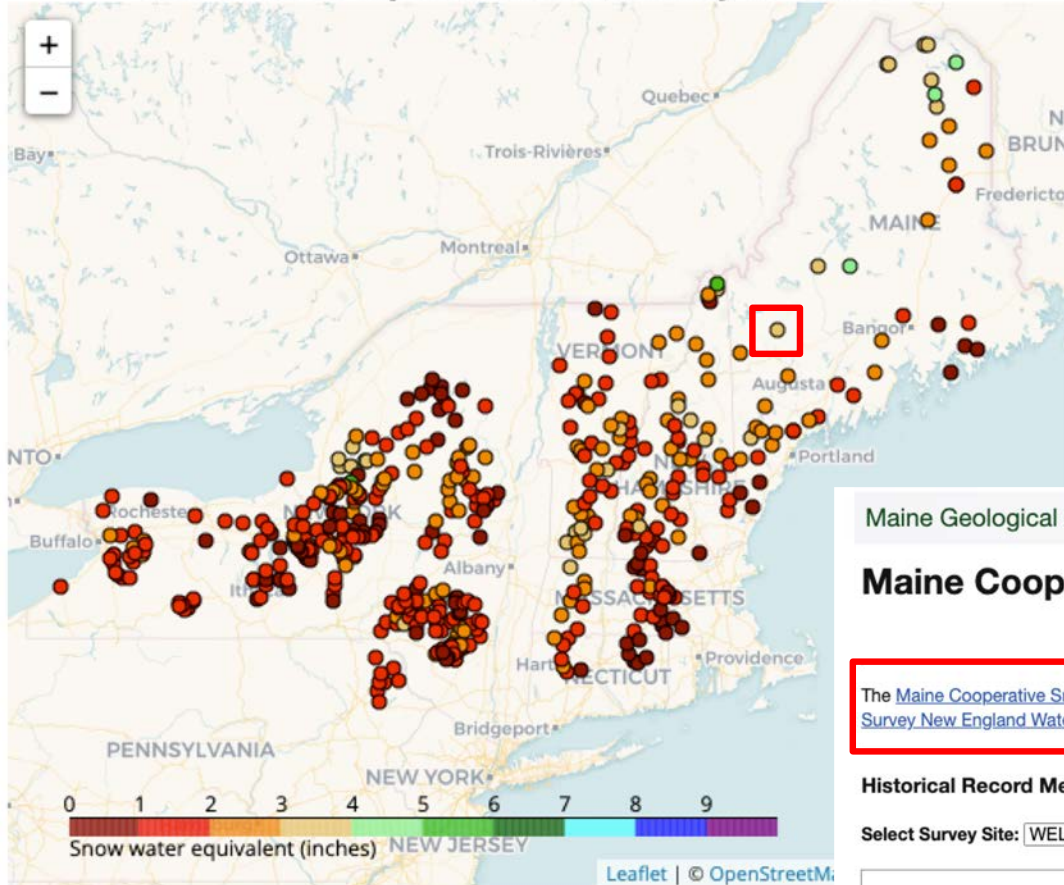
Streamflow



Groundwater



Snow Water Equivalent for January 17-19, 2022



Snow Water Equivalent

Maine Geological Survey

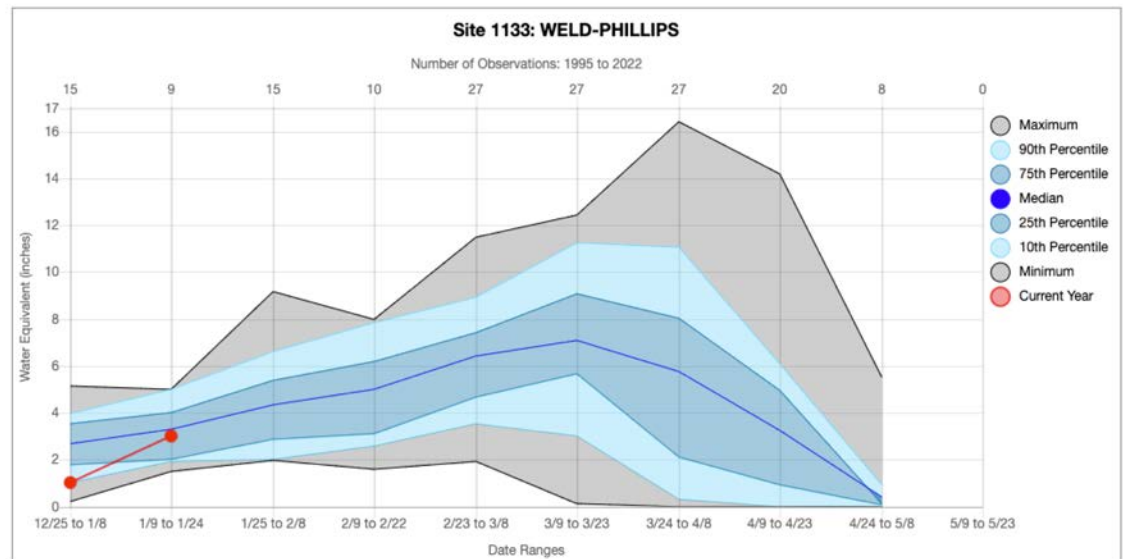
Maine Cooperative Snow Survey - Graphs

Maps Map Compare Data **Graphs**

The [Maine Cooperative Snow Survey](#) maps and data are provided by a partnership with [Maine Geological Survey](#) and the [U. S. Geological Survey New England Water Science Center, Maine Office](#) for the [Maine River Flow Advisory Council](#).

Historical Record Mean Water Content Graph

Select Survey Site:



Updated: January 19, 2022

<http://www.nrcc.cornell.edu/regional/snowsurvey/snowsurvey.html>

https://www.maine.gov/dacf/mgs/hazards/snow_survey/snow_graphs.shtml





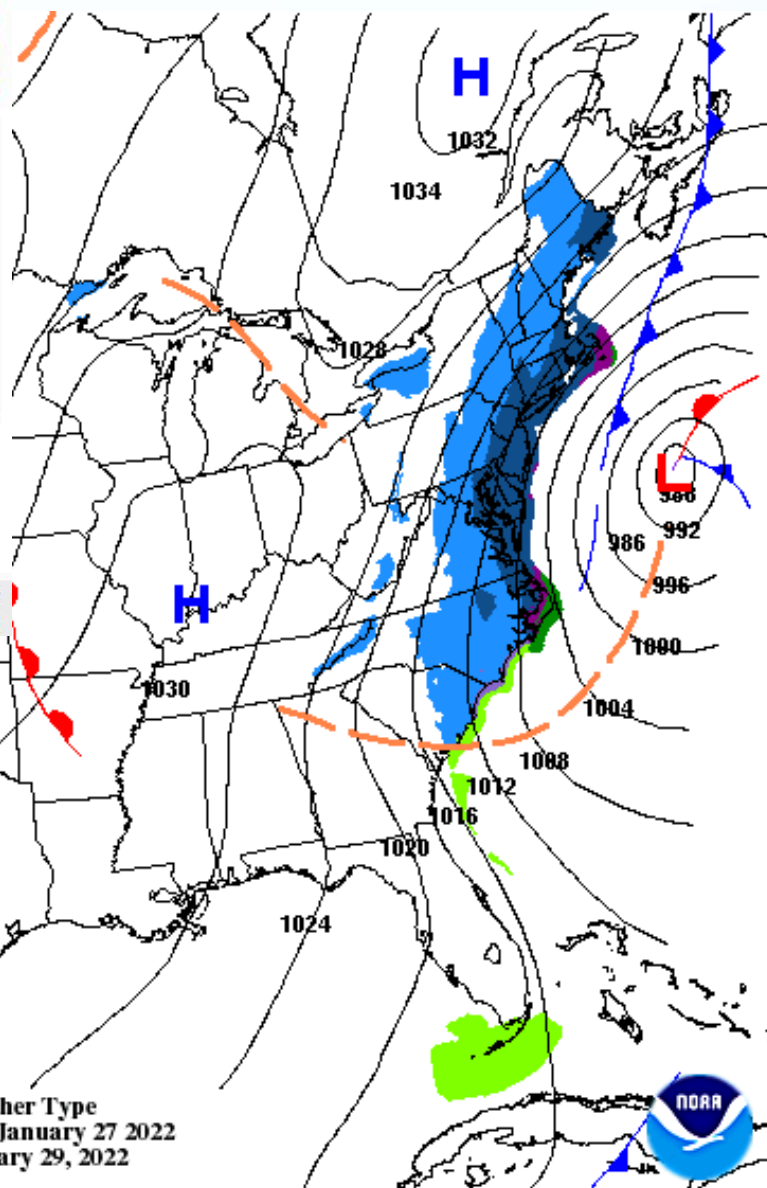
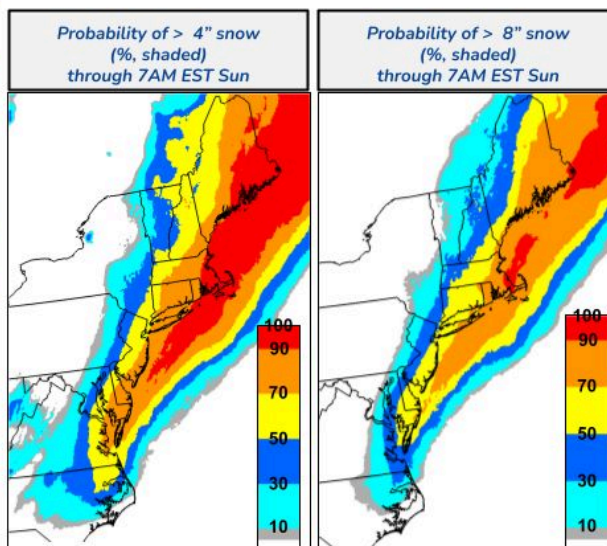
Key Messages for January 28-30 Winter Storm

Updated January 27, 2022
5:00 AM EST

Significant impacts likely in New England, with impacts possible further south along the East Coast

Precipitation Forecast

- A winter storm is likely to create significant impacts across New England Friday night through Sunday. Notable impacts may also extend south along the East Coast through North Carolina.
- Across New England, heavy snow and strong winds are likely which could lead to blowing snow, scattered power outages, and some damage. Additionally, significant coastal impacts are possible, including coastal flooding and beach erosion.
- Farther south along the coast, from New York City to northeast North Carolina, moderate to heavy snow is possible, but confidence in potential impacts is lower.
- This forecast continues to evolve. Please check for updates and your local forecast at weather.gov.



National Oceanic and Atmospheric Administration
U.S. Department of Commerce

For more information go to:
www.wpc.ncep.noaa.gov and www.weather.gov

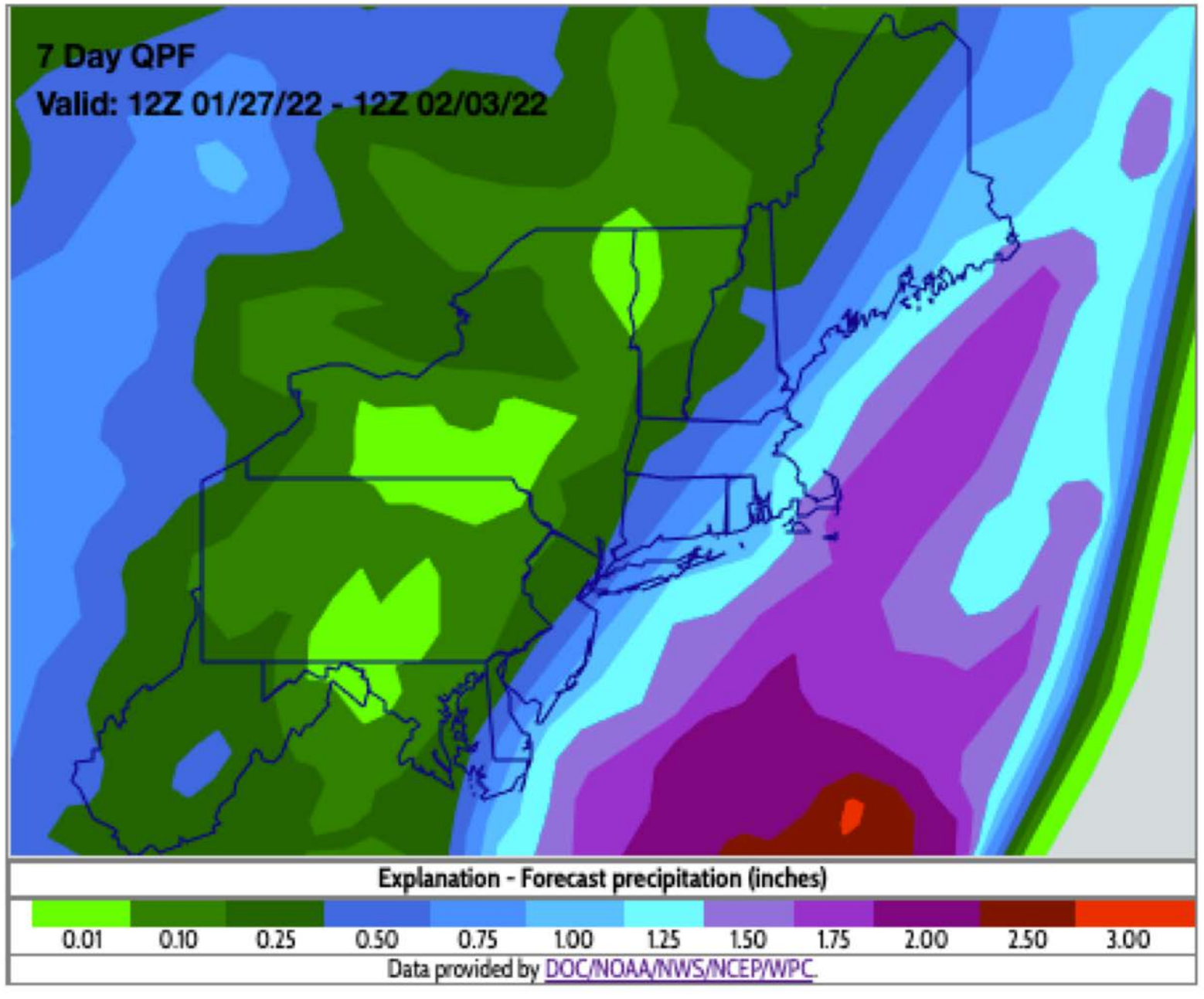
Weather Prediction Center
College Park, MD

- NDFD Rain (Chance)
- NDFD Rain (Likely)
- NDFD Snow (Chance)
- NDFD Snow (Likely)
- NDFD Mix (Chance)
- NDFD Mix (Likely)
- NDFD Ice (Chance)
- NDFD Ice (Likely)
- NDFD T-Storm (Chance) (Hatched)
- NDFD T-Storm (Likely and/or Severe)

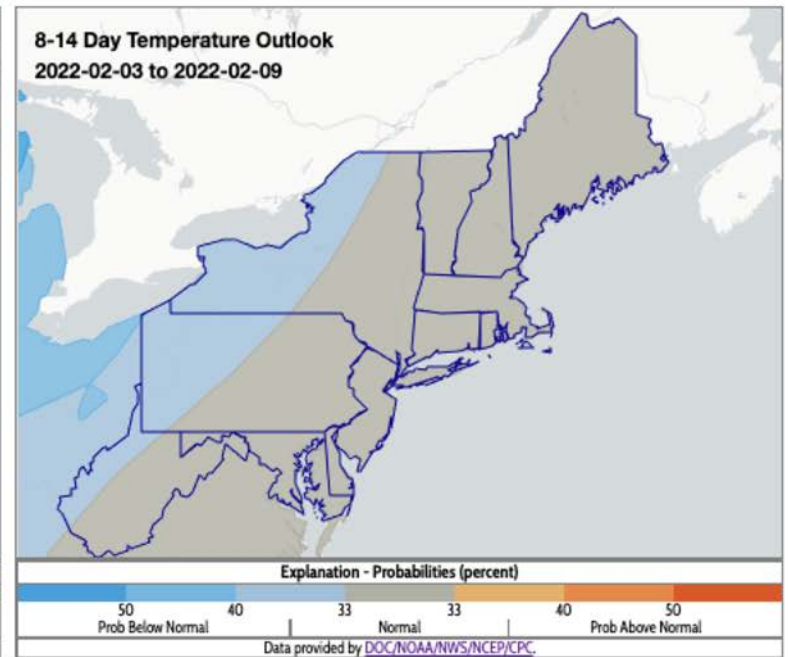
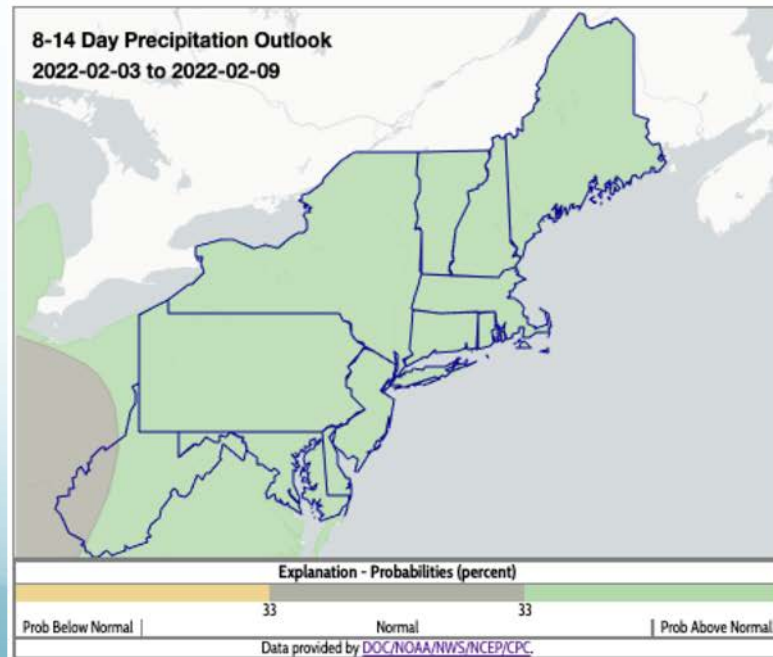
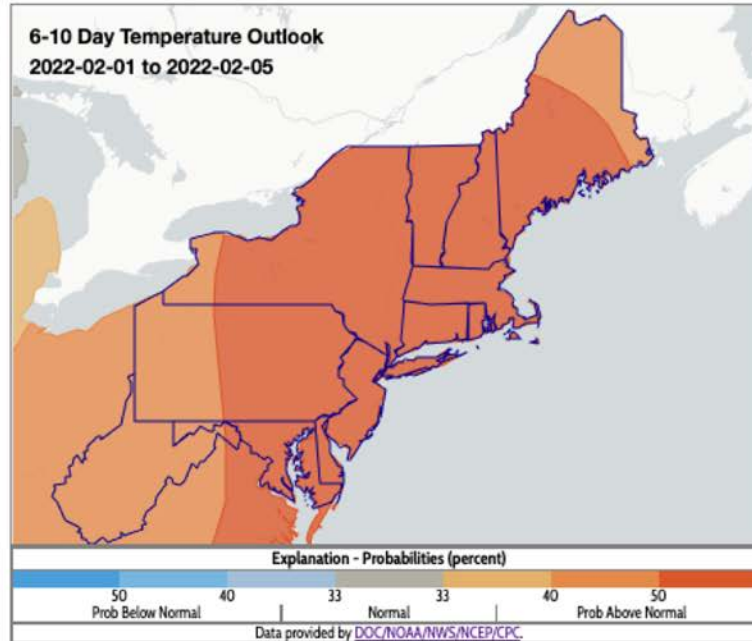
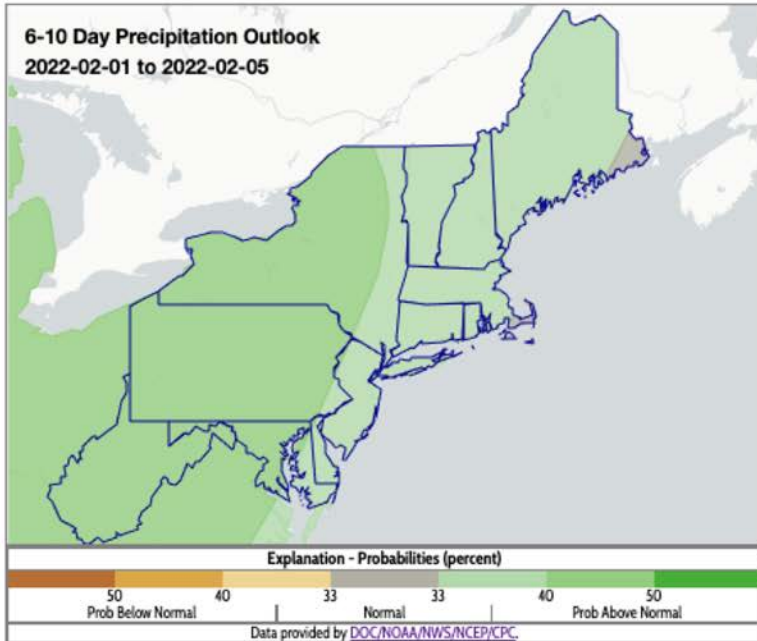
WPC Fronts/NDFD Weather Type
Issued: 1004Z Thursday January 27 2022
Valid 12Z Saturday January 29, 2022
Forecaster: KONG



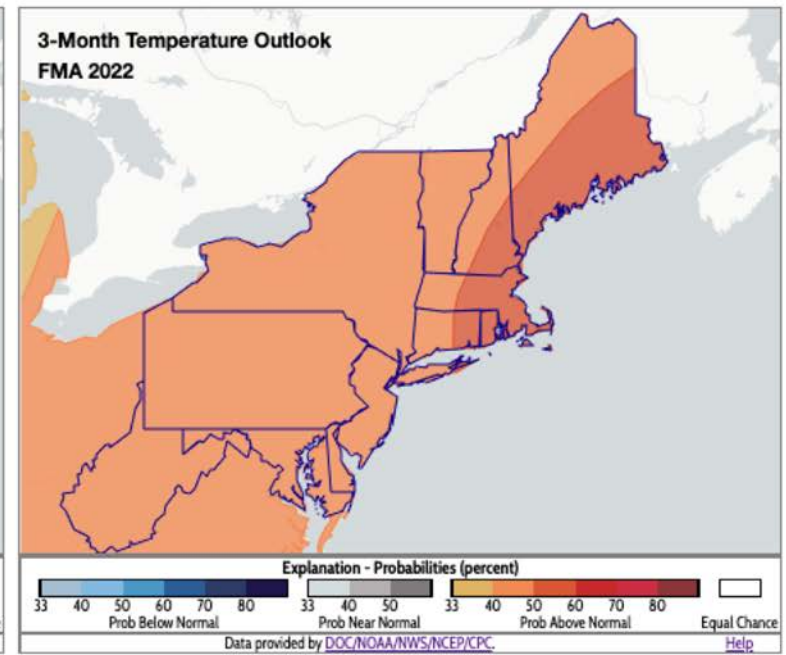
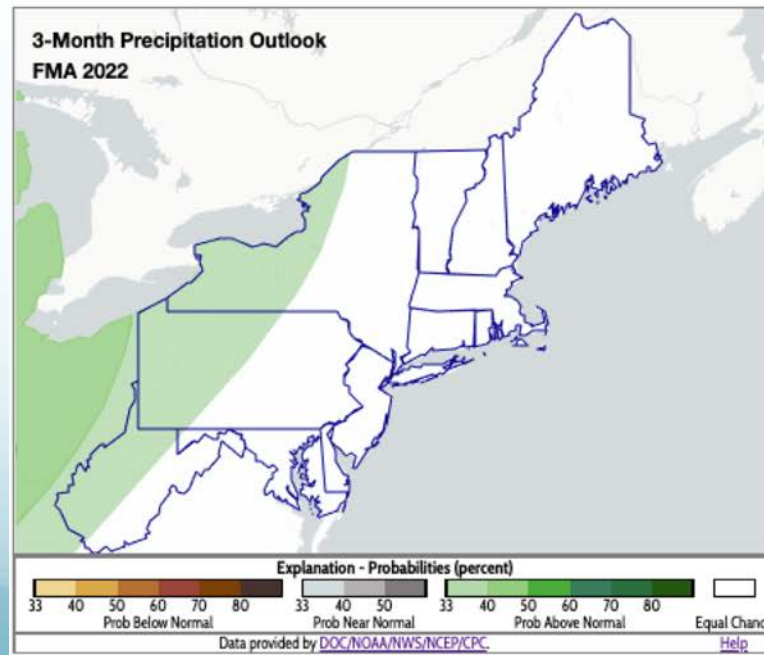
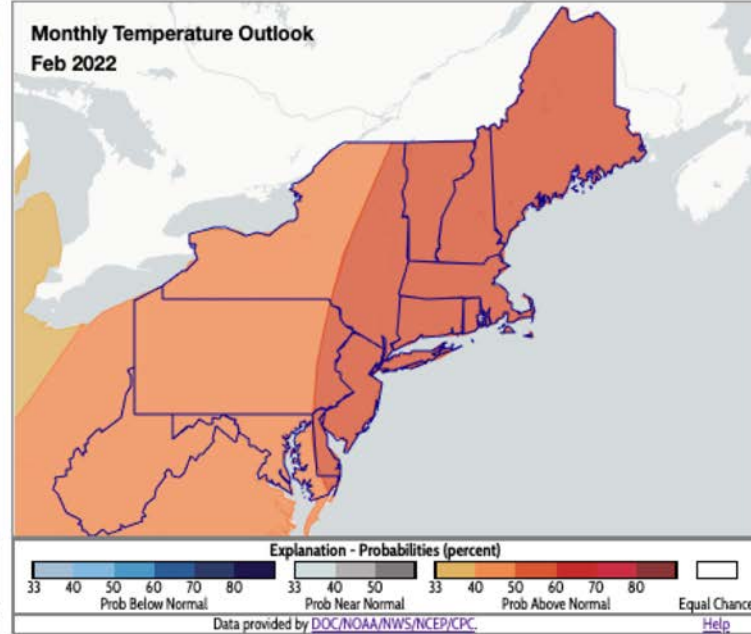
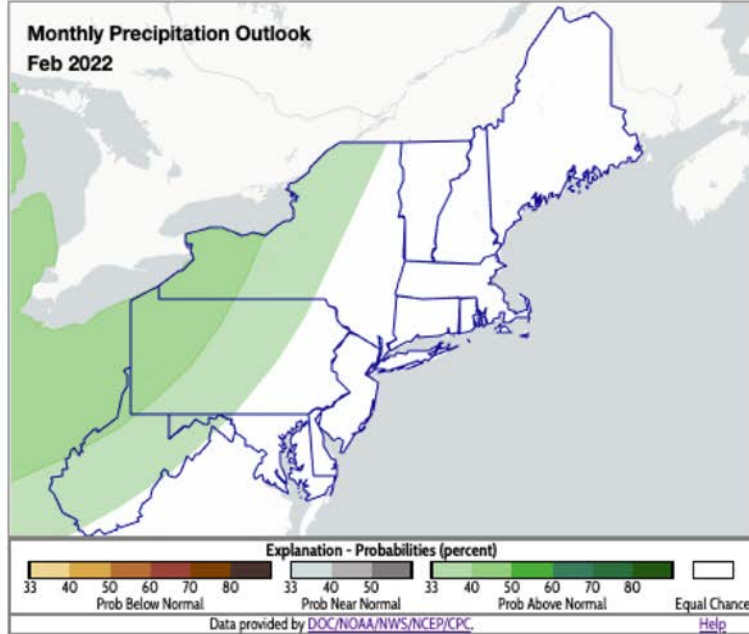
Precipitation Forecast



Short-term Outlooks



Monthly & 3-Month Outlooks



Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Thursday, February 24 at 9:30am
 - Northeast U.S. Snow Survey and SWE Climatology
- Thursday, March 31 at 9:30am
 - Spring Flood Outlook
- Thursday, April 28 at 9:30am
 - NE U.S. Precip Trends and Links w/ Drought



www.nrcc.cornell.edu