

February Recap & Northeast DEWS Discussion

By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



Northeast Regional
Climate Center



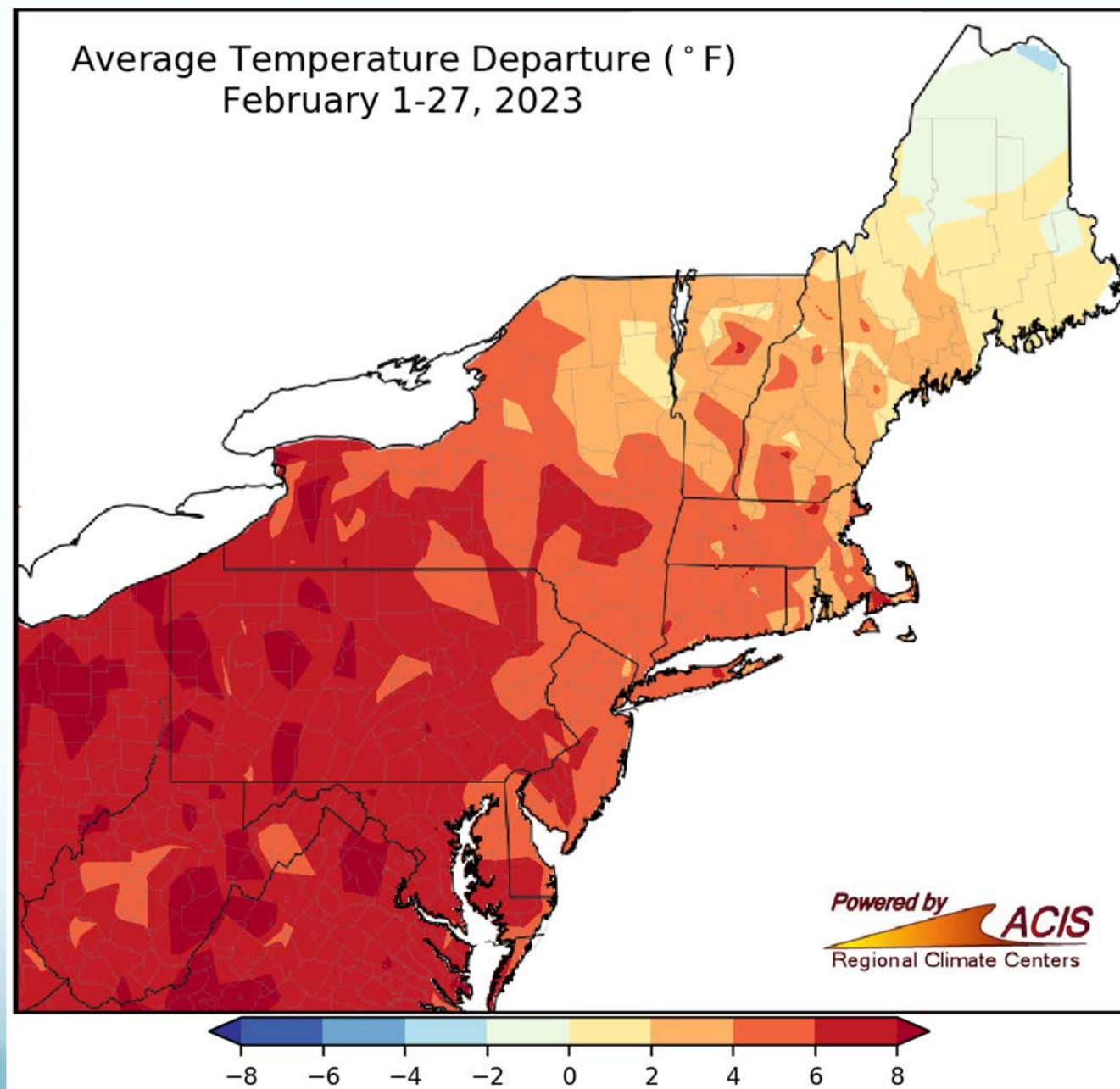
February Temperatures

Station	Date	Low Temp	Feb. Rank (coldest)
Boston, MA	3	-8	10
Worcester, MA	4	-13	8
Binghamton, NY	4	-13	7
Boston, MA	4	-10	6
Providence, RI	4	-9	5
Bridgeport, CT	4	-4	3
Kennedy Airport, NY	4	4	10

Station	Date	High Temp	Feb. Rank (warmest)
Williamsport, PA	15	72	2
Newark, NJ	15	70	9
Syracuse, NY	15	69	3
Rochester, NY	15	67	5
Binghamton, NY	15	61	9
Islip, NY	16	71	1
Providence, RI	16	71	3
LaGuardia Airport, NY	16	69	10
Bridgeport, CT	16	68	1
Huntington, WV	22	80	2
Charleston, WV	22	78	9
Beckley, WV	22	77	1
Washington, D.C.	23	81	4
Dulles Airport, VA	23	80	1
Baltimore, MD	23	79	2
Huntington, WV	23	78	6



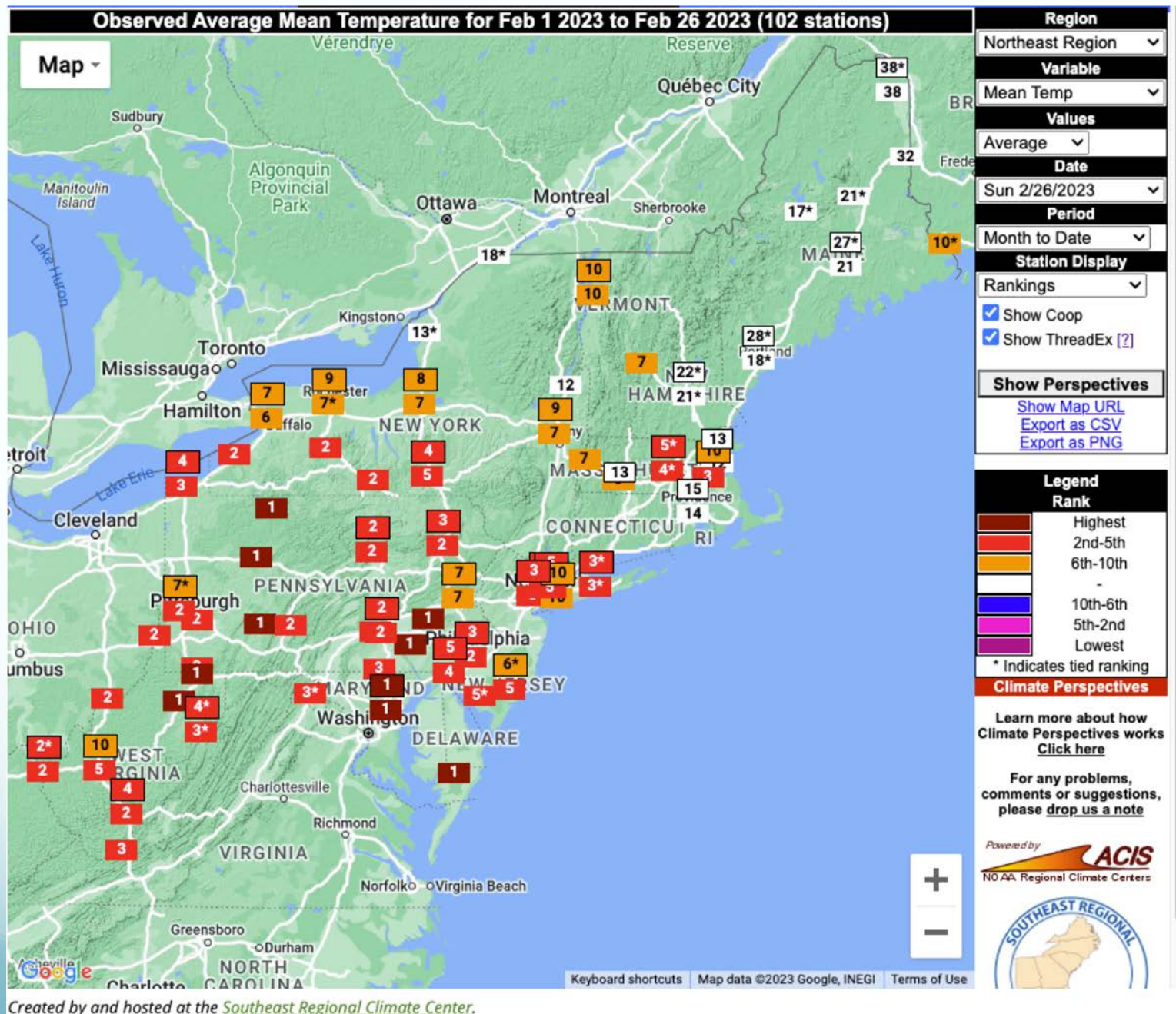
February Temperatures



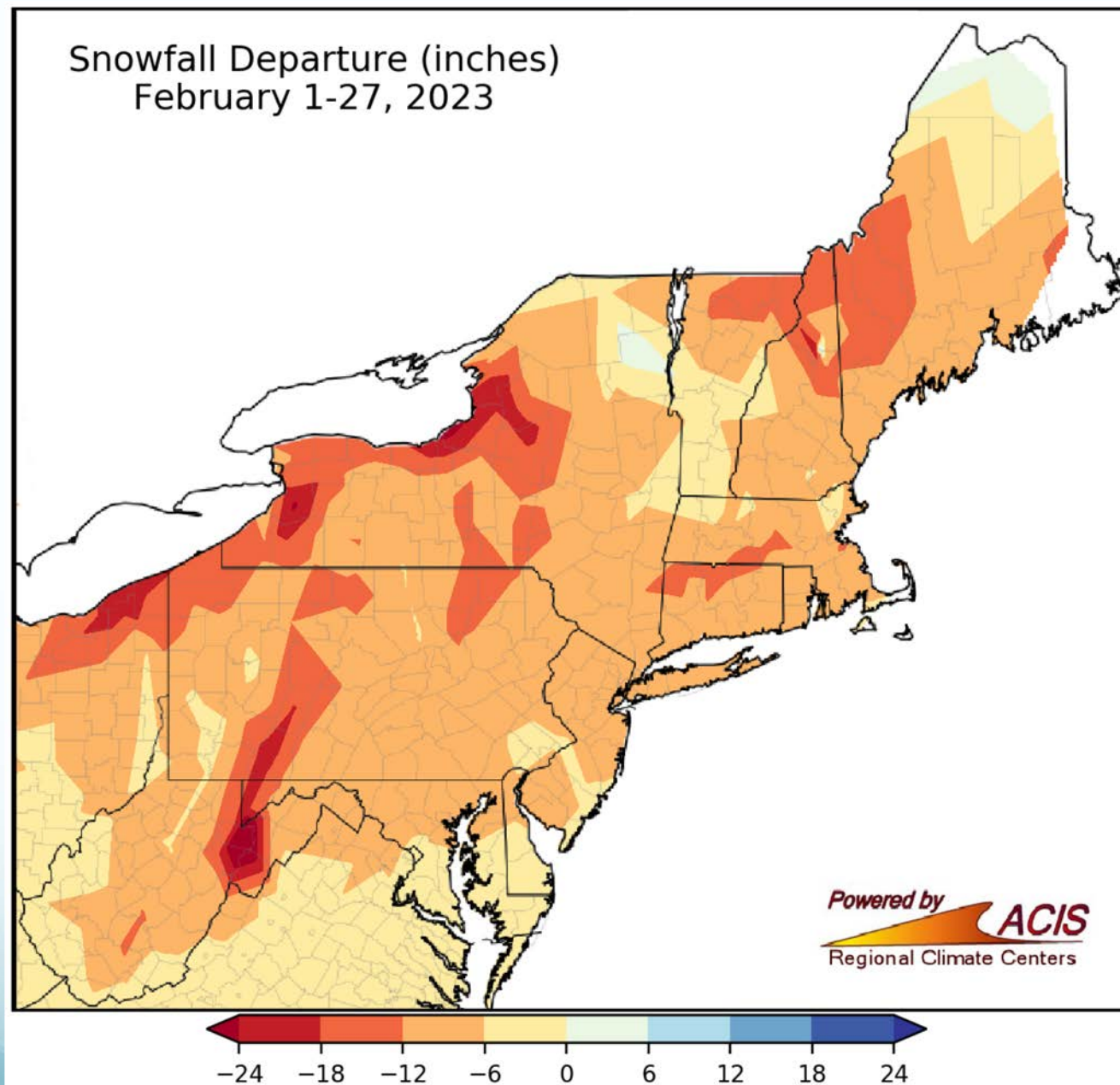
From near normal to more than 8°F above normal



February Temperatures



February Snowfall



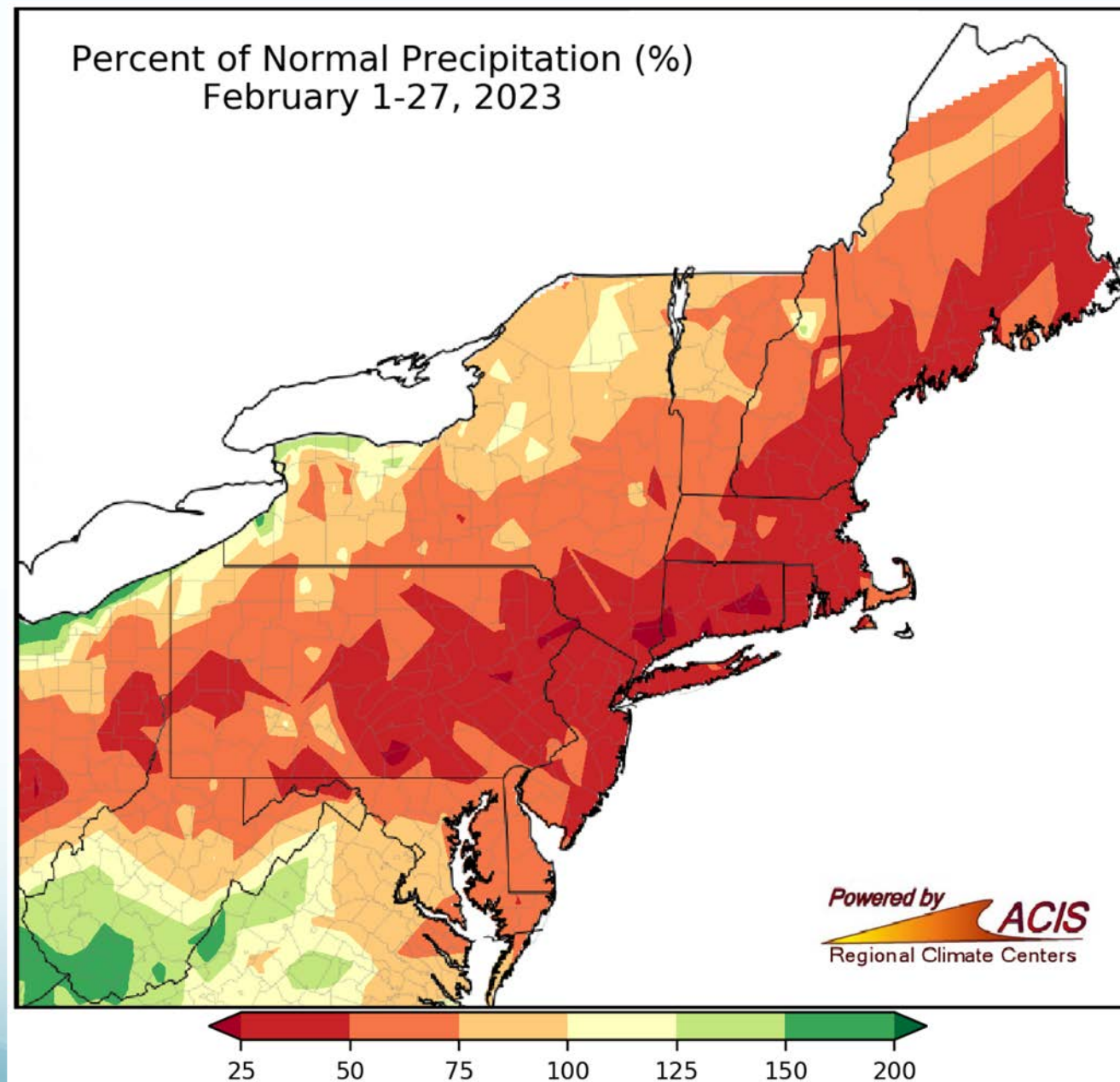
From more than 24" below normal to more than 12" above normal

February Snowfall

Location	Feb 1-26, 2023 Snowfall (in.)	Normal (in.)	Departure (in.)	Rank (least snowy)	Feb 1-27, 2023 Snowfall (in.)	Updated Rank (least snowy)
Albany, NY	5.7	12.7	-7.0		8.2	
Allentown, PA	T	10.2	-10.2	1	2.2	20
Atlantic City, NJ	0.3	5.6	-5.3	18	0.3	18
Baltimore, MD	0.2	7.1	-6.9	20	0.2	20
Beckley, WV	1.8	14.2	-12.4	12	1.8	12
Binghamton, NY	4.5	18.3	-13.8	2	7.4	4
Boston, MA	2.8	13.5	-10.7	20	missing	
Bridgeport, CT	0.3	10.1	-9.8	7	2.3	19
Buffalo, NY	3.0	16.9	-13.9	4	7.3	15
Burlington, VT	9.6	17.9	-8.3		9.7	
Caribou, ME	26.9	23.4	3.5		26.9	
Central Park, NY	0.4	9.6	-9.2	12	1.3	
Charleston, WV	0.1	7.1	-7.0	8	0.1	8
Concord, NH	6.2	15.7	-9.5	20	6.2	20
Dulles Airport, VA	0.4	6.6	-6.2	15	0.4	15
Elkins, WV	0.6	14.3	-13.7	3	0.6	3
Erie, PA	1.7	18.2	-16.5	3	1.7	3
Harrisburg, PA	T	8.9	-8.9	1	T	1
Hartford, CT	1.0	13.9	-12.9	7	missing	
Huntington, WV	0.2	5.4	-5.2	11	0.2	11
Islip, NY	0.3	8.9	-8.6	8	2.1	17
Kennedy Airport, NY	0.2	8.1	-7.9	7	1.2	16
LaGuardia Airport, NY	0.2	9.3	-9.1	8	1.3	17
Newark, NJ	0.3	9.5	-9.2	7	1.5	20
Philadelphia, PA	0.3	8.0	-7.7	14	0.3	14
Pittsburgh, PA	0.2	10.9	-10.7	1	0.2	1
Portland, ME	7.6	15.5	-7.9		7.6	
Providence, RI	0.8	9.9	-9.1	10	2.0	14
Rochester, NY	9.5	21.5	-12.0		11.9	
Scranton, PA	0.7	10.1	-9.4	missing 2 days	2.7	missing 2 days
Syracuse, NY	18.1	28.2	-10.1		20.1	
Washington National, DC	0.4	4.7	-4.3		0.4	
Williamsport, PA	1.9	8.6	-6.7	11	3.2	
Wilmington, DE	0.4	7.4	-7.0	20	0.4	20
Worcester, MA	5.7	19.9	-14.2	17	missing	

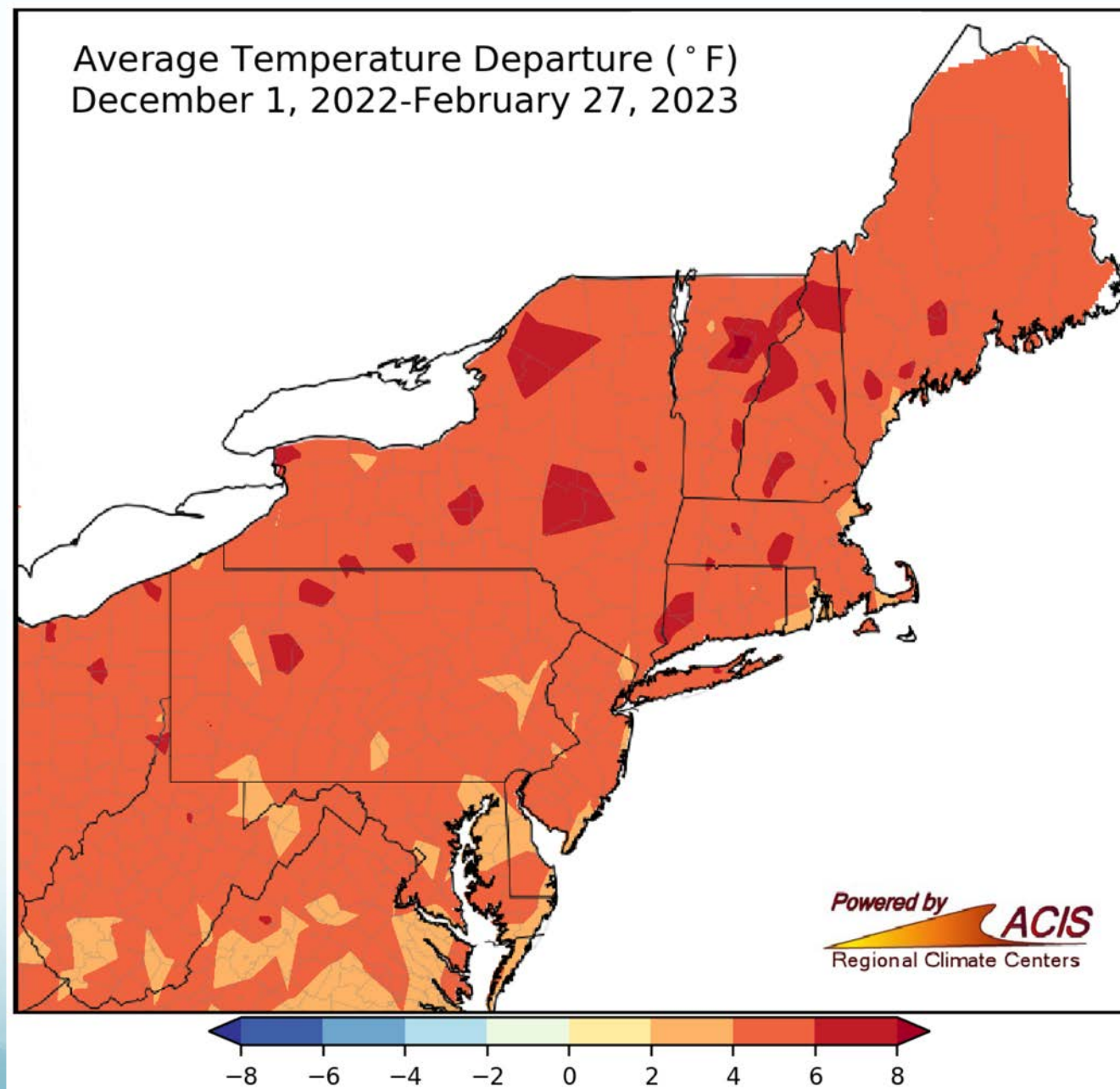


February Precipitation



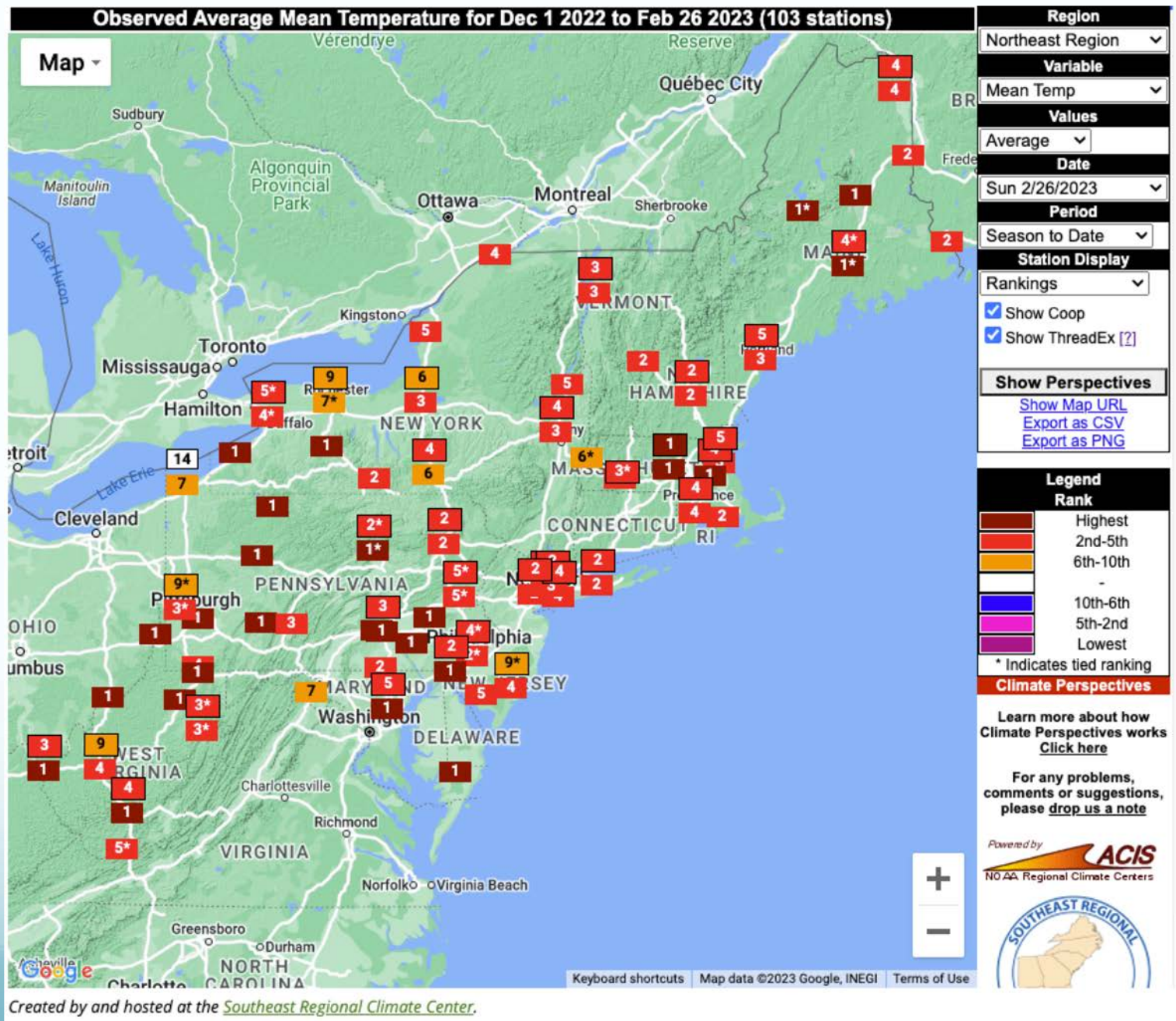
From less than 25% of normal to 200% of normal

Winter Temperatures

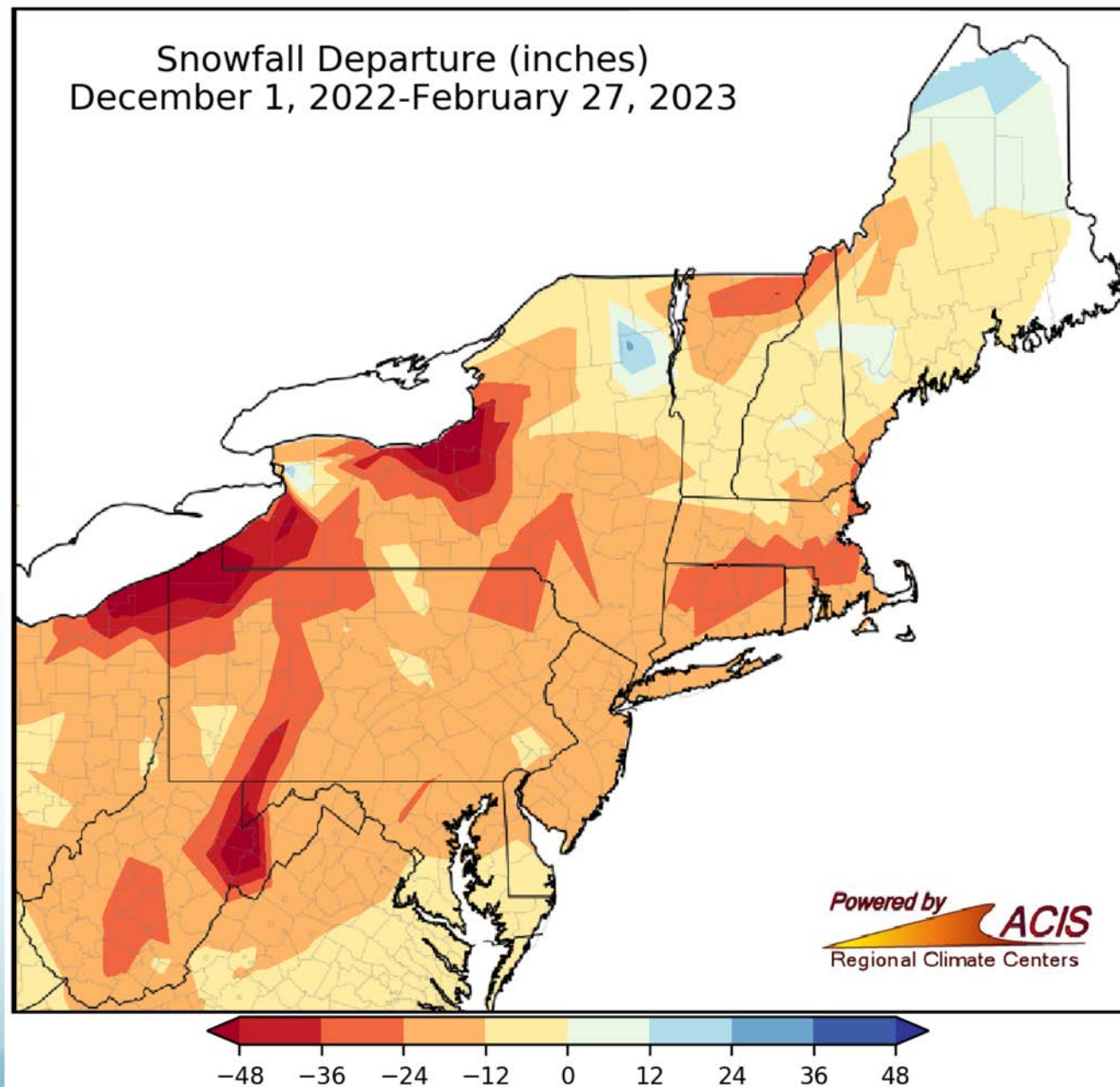


From 2°F to 8°F above normal

Winter Temperatures



Winter Snowfall



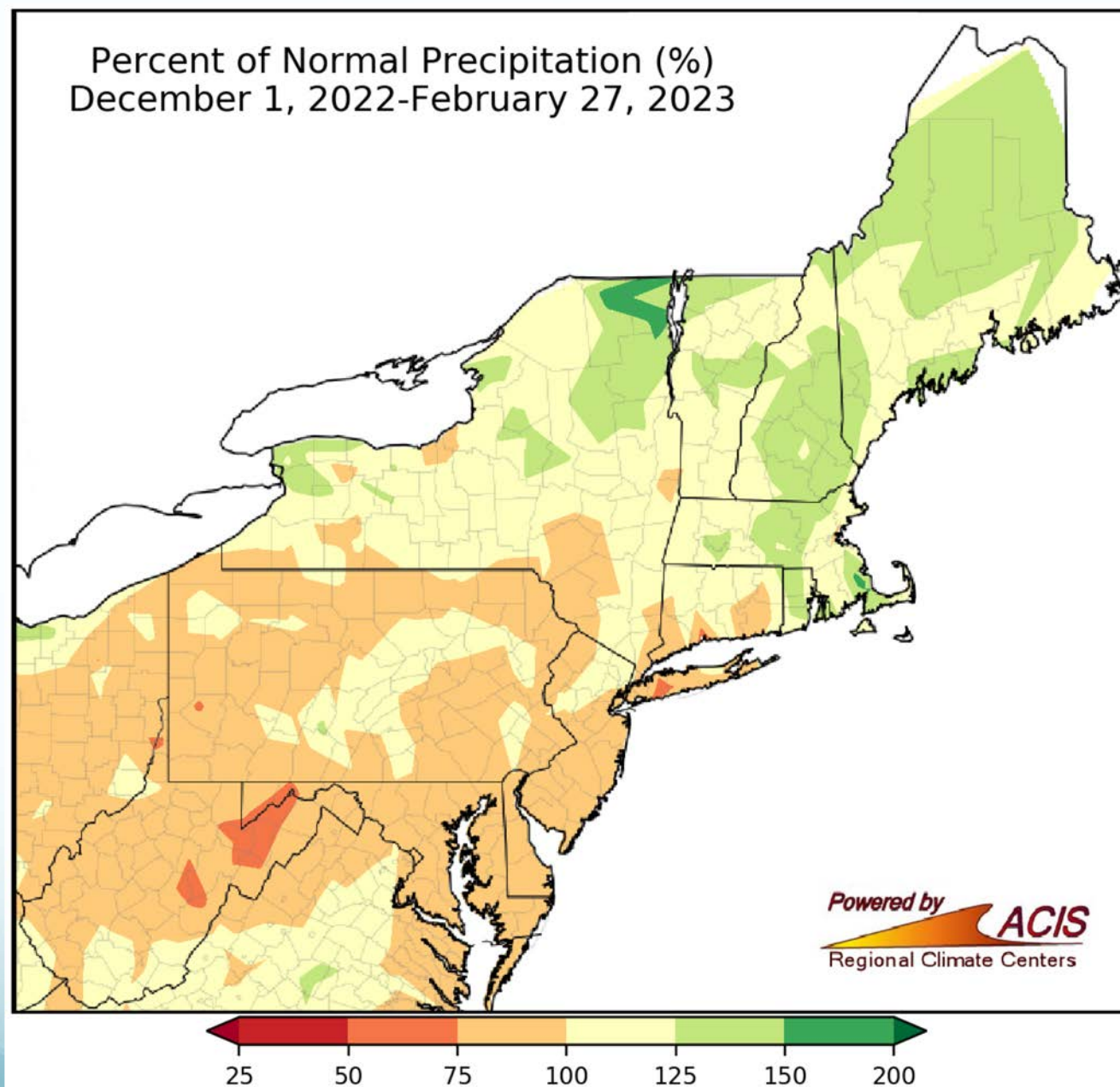
From more than 48" below normal to 24" above normal

Winter Snowfall

Location	Dec 1-Feb 26, 2023 Snowfall (in.)	Normal (in.)	Departure (in.)	Rank (least snowy)	Dec 1-Feb 27, 2023 Snowfall (in.)	Updated Rank (least snowy)
Albany, NY	27.5	41.6	-14.1		30.0	
Allentown, PA	2.9	24.6	-21.7	2	5.1	4
Atlantic City, NJ	0.3	14.5	-14.2	1	0.3	1
Baltimore, MD	0.2	16.0	-15.8	1	0.2	1
Beckley, WV	8.3	40.8	-32.5	3	8.3	3
Binghamton, NY	36.7	57.0	-20.3	10	39.6	14
Boston, MA	10.7	36.8	-26.1	9	missing	
Bridgeport, CT	1.1	24.1	-23.0	1	3.1	1
Buffalo, NY	82.4	68.9	13.5		86.7	16 snowiest
Burlington, VT	43.9	58.5	-14.6		44.0	
Caribou, ME	84.6	73.6	11.0	18 snowiest	84.6	19 snowiest
Central Park, NY	0.4	23.3	-22.9	1	1.3	3
Charleston, WV	2.6	22.4	-19.8	6	2.6	5
Concord, NH	39.3	47.1	-7.8		39.3	
Dulles Airport, VA	0.4	16.3	-15.9	2	0.4	2
Elkins, WV	9.1	49.1	-40.0	2	9.1	2
Erie, PA	19.3	76.3	-57.0	9	19.3	9
Harrisburg, PA	5.9	22.4	-16.5	6	5.9	6
Hartford, CT	9.6	38.2	-28.6	6	missing	
Huntington, WV	2.4	14.1	-11.7	6	2.4	5
Islip, NY	0.7	23.7	-23.0	1	2.5	2
Kennedy Airport, NY	0.2	20.1	-19.9	1	1.2	2
LaGuardia Airport, NY	0.6	23.1	-22.5	1	1.7	1
Newark, NJ	0.4	24.0	-23.6	1	1.6	2
Philadelphia, PA	0.3	18.6	-18.3	2	0.3	2
Pittsburgh, PA	11.2	31.9	-20.7	12	11.2	12
Portland, ME	36.3	48.7	-12.4		36.3	
Providence, RI	5.7	27.8	-22.1	3	6.9	3
Rochester, NY	22.9	71.2	-48.3	4	25.3	5
Scranton, PA	10.2	29.5	-19.3	missing 2 days	12.2	missing 2 days
Syracuse, NY	44.7	92.8	-48.1	15	46.7	17
Washington National, DC	0.4	11.3	-10.9	4	0.4	4
Williamsport, PA	10.2	25.2	-15.0	9	11.5	11
Wilmington, DE	0.4	16.4	-16.0	3	0.4	3
Worcester, MA	21.2	53.0	-31.8	10	missing	



Winter Precipitation



From 50% of normal to 200% of normal



Drought Monitor

U.S. Drought Monitor Northeast

January 31, 2023
(Released Thursday, Feb. 2, 2023)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	96.83	2.97	0.21	0.00	0.00	0.00
Last Week 01-24-2023	95.28	4.52	0.21	0.00	0.00	0.00
3 Months Ago 11-01-2022	79.09	18.75	1.78	0.37	0.00	0.00
Start of Calendar Year 01-03-2023	90.64	9.16	0.21	0.00	0.00	0.00
Start of Water Year 09-27-2022	69.23	17.83	9.11	3.70	0.14	0.00
One Year Ago 02-01-2022	81.59	16.37	1.19	0.85	0.00	0.00

Intensity:

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

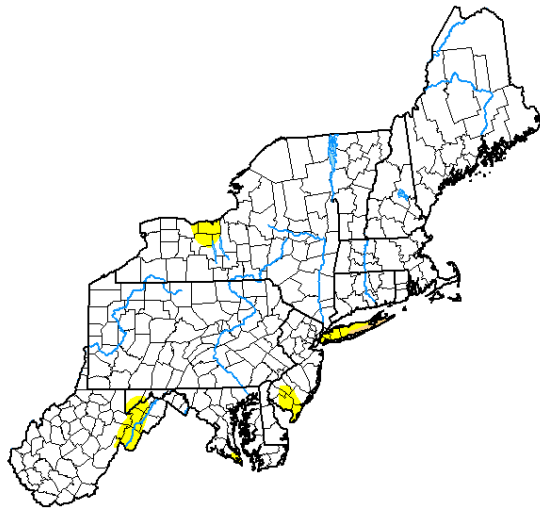
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Rocky Billotta
NCEI/NOAA



droughtmonitor.unl.edu



U.S. Drought Monitor Northeast

February 21, 2023
(Released Thursday, Feb. 23, 2023)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	96.42	3.58	0.00	0.00	0.00	0.00
Last Week 02-14-2023	96.04	3.96	0.00	0.00	0.00	0.00
3 Months Ago 11-22-2022	89.68	8.34	1.85	0.13	0.00	0.00
Start of Calendar Year 01-03-2023	90.64	9.16	0.21	0.00	0.00	0.00
Start of Water Year 09-27-2022	69.23	17.83	9.11	3.70	0.14	0.00
One Year Ago 02-22-2022	82.28	15.69	1.19	0.85	0.00	0.00

Intensity:

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

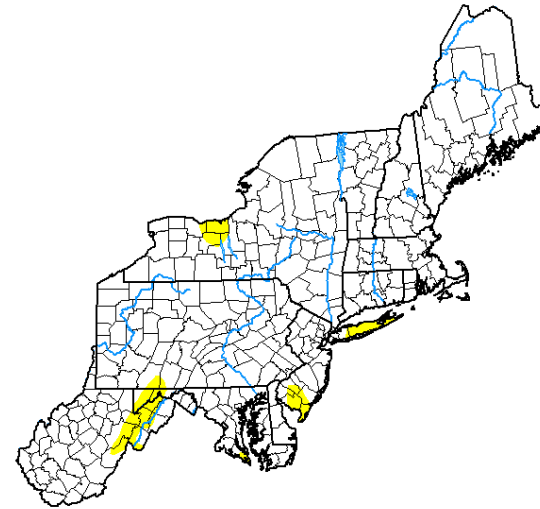
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Author:

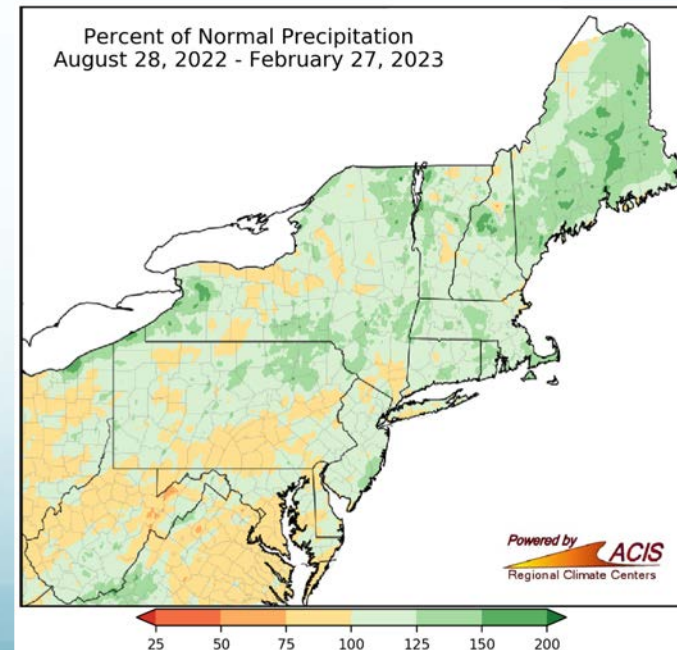
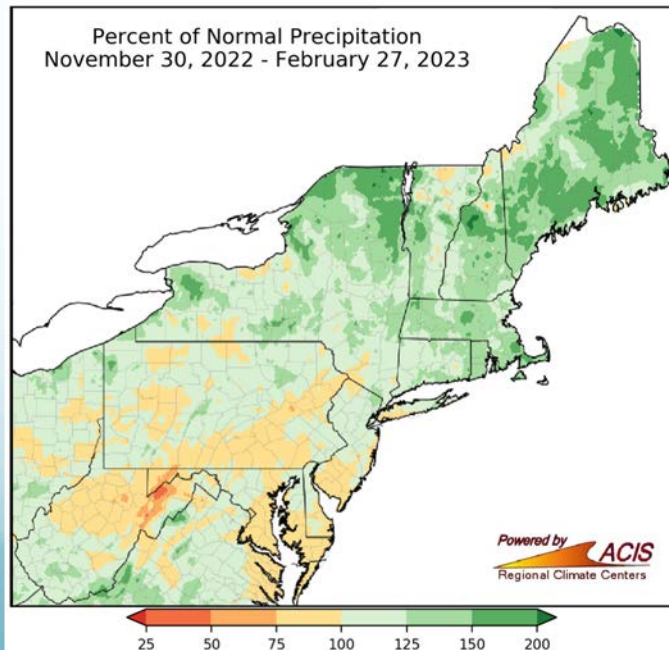
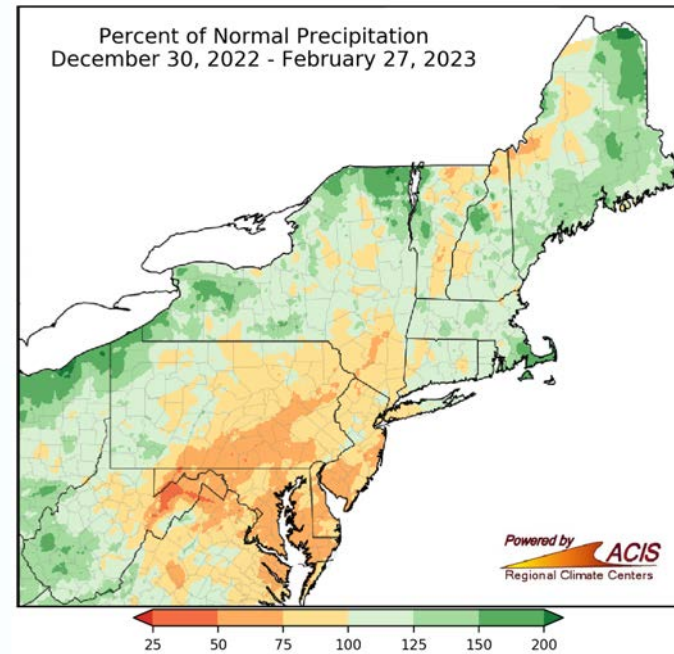
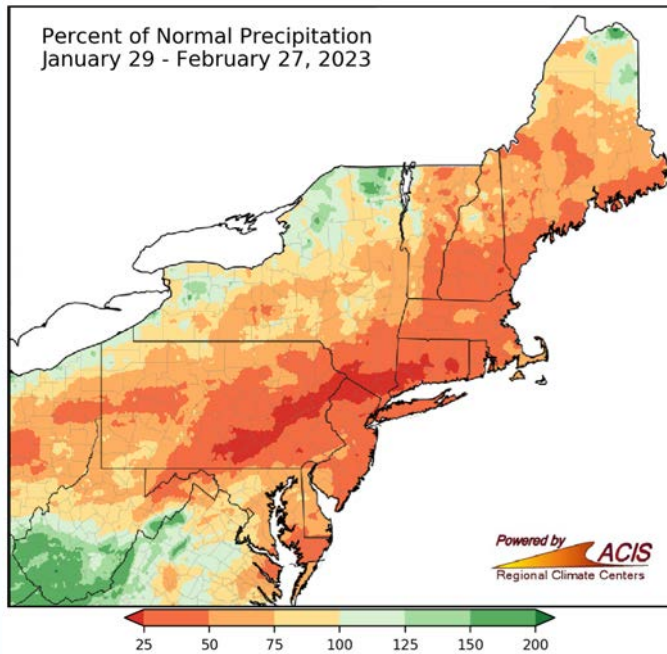
Richard Heim
NCEI/NOAA



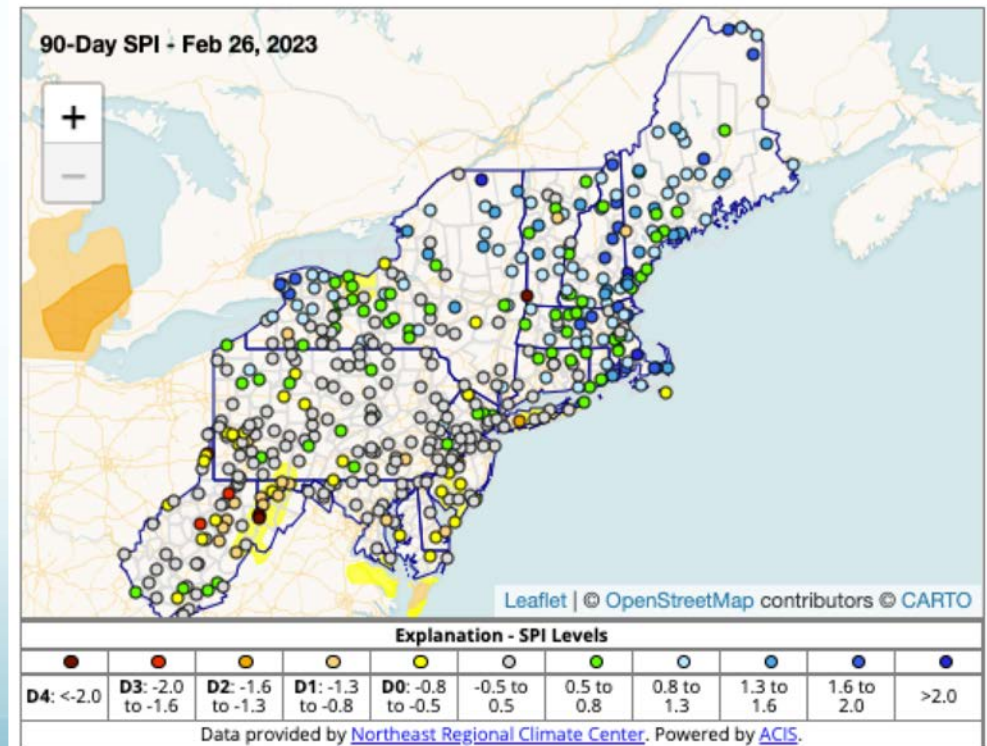
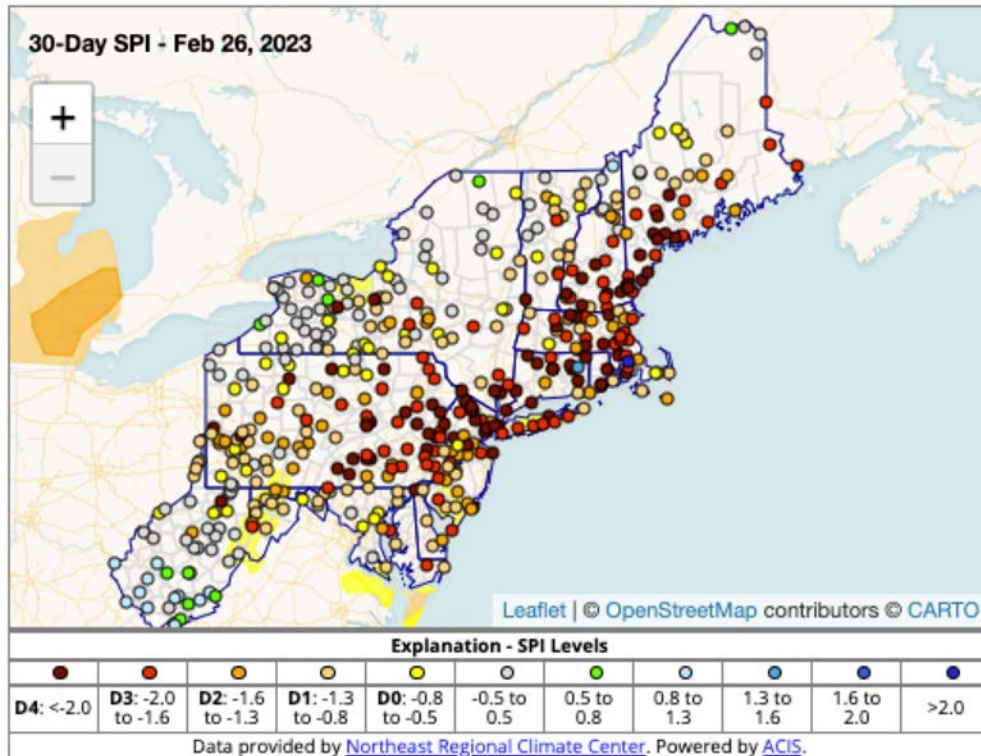
droughtmonitor.unl.edu



Precipitation



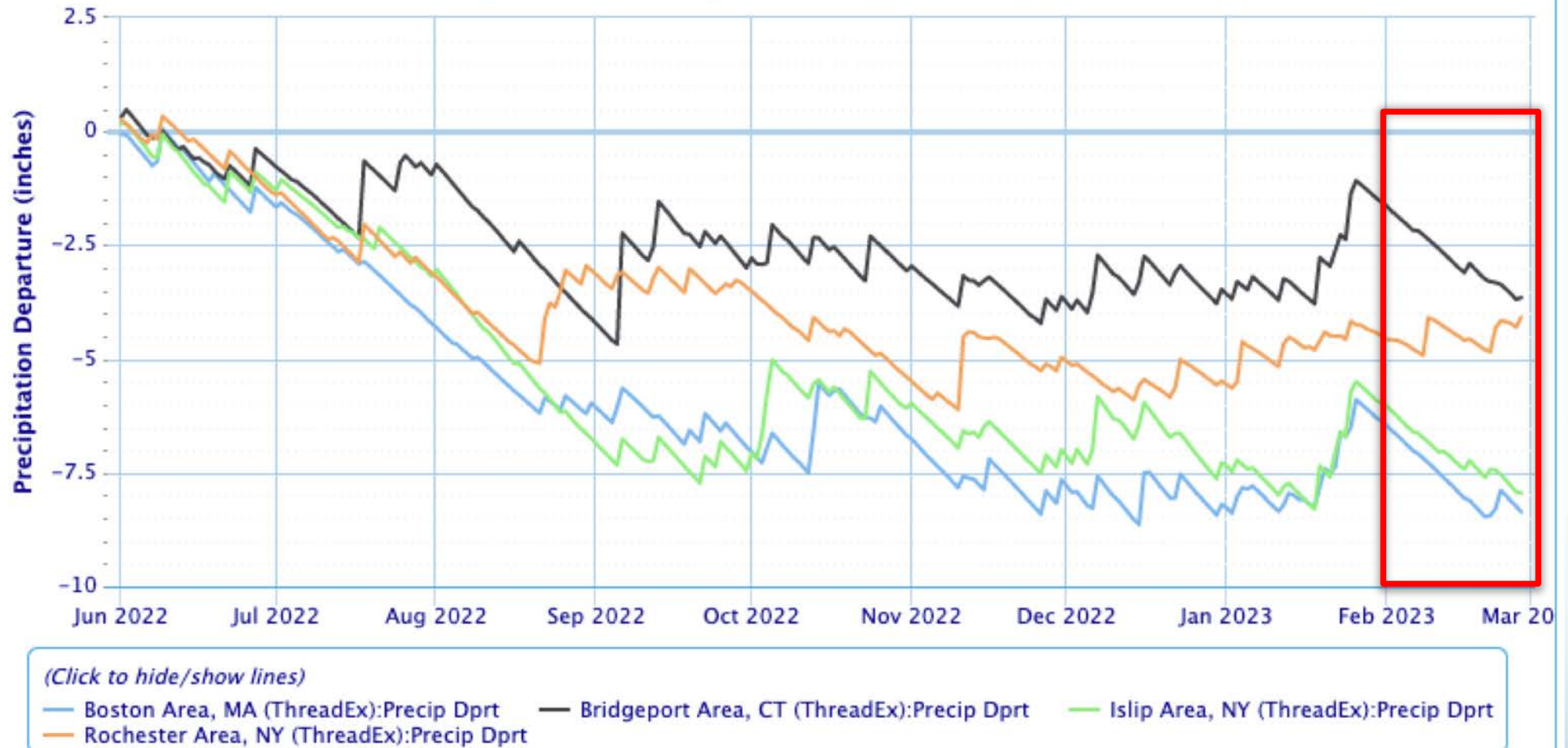
Standardized Precipitation Index



Precipitation

Accumulated Precipitation Departure from Normal

Green/black diamonds represent subsequent/missing values

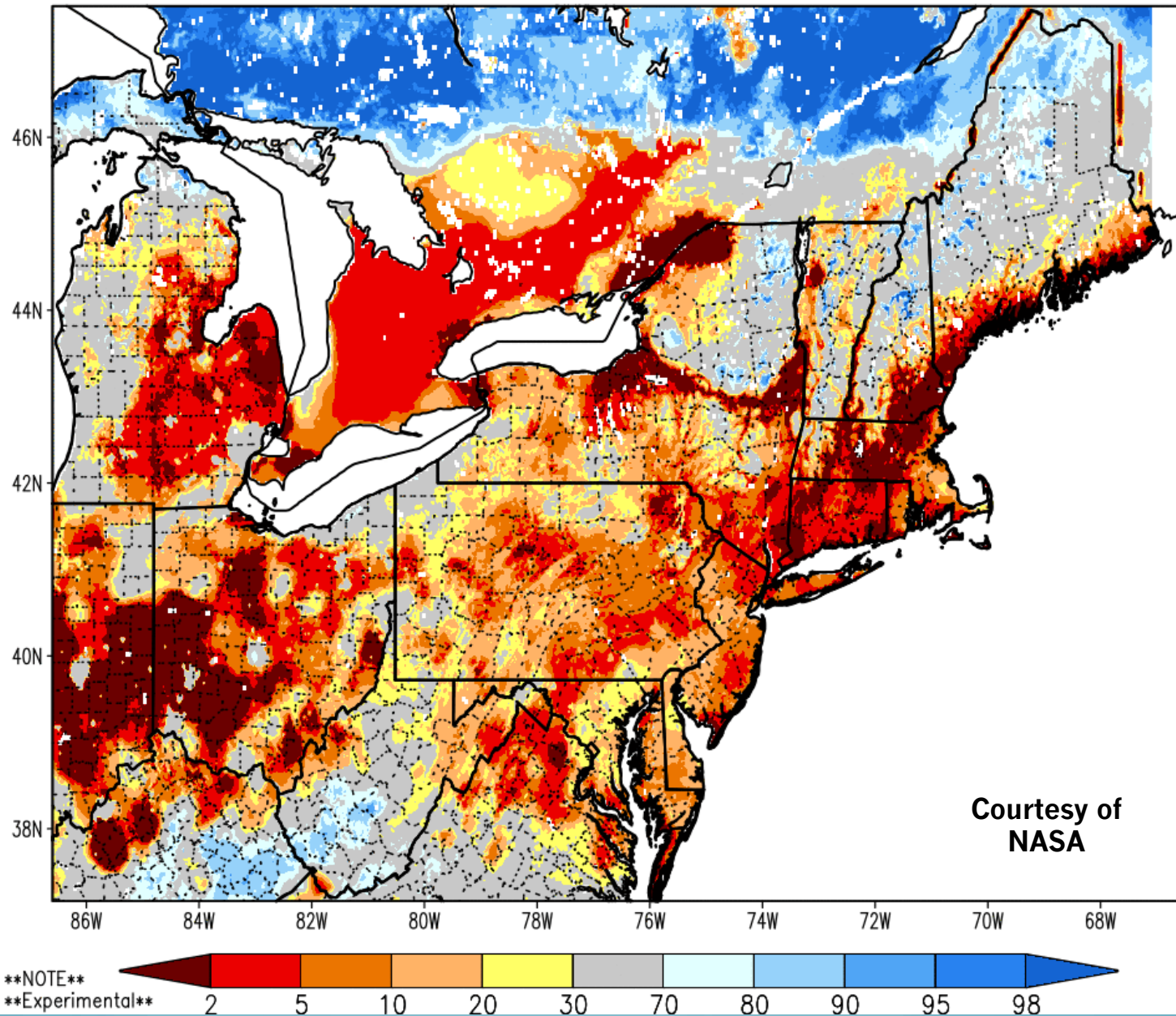


Powered by ACIS

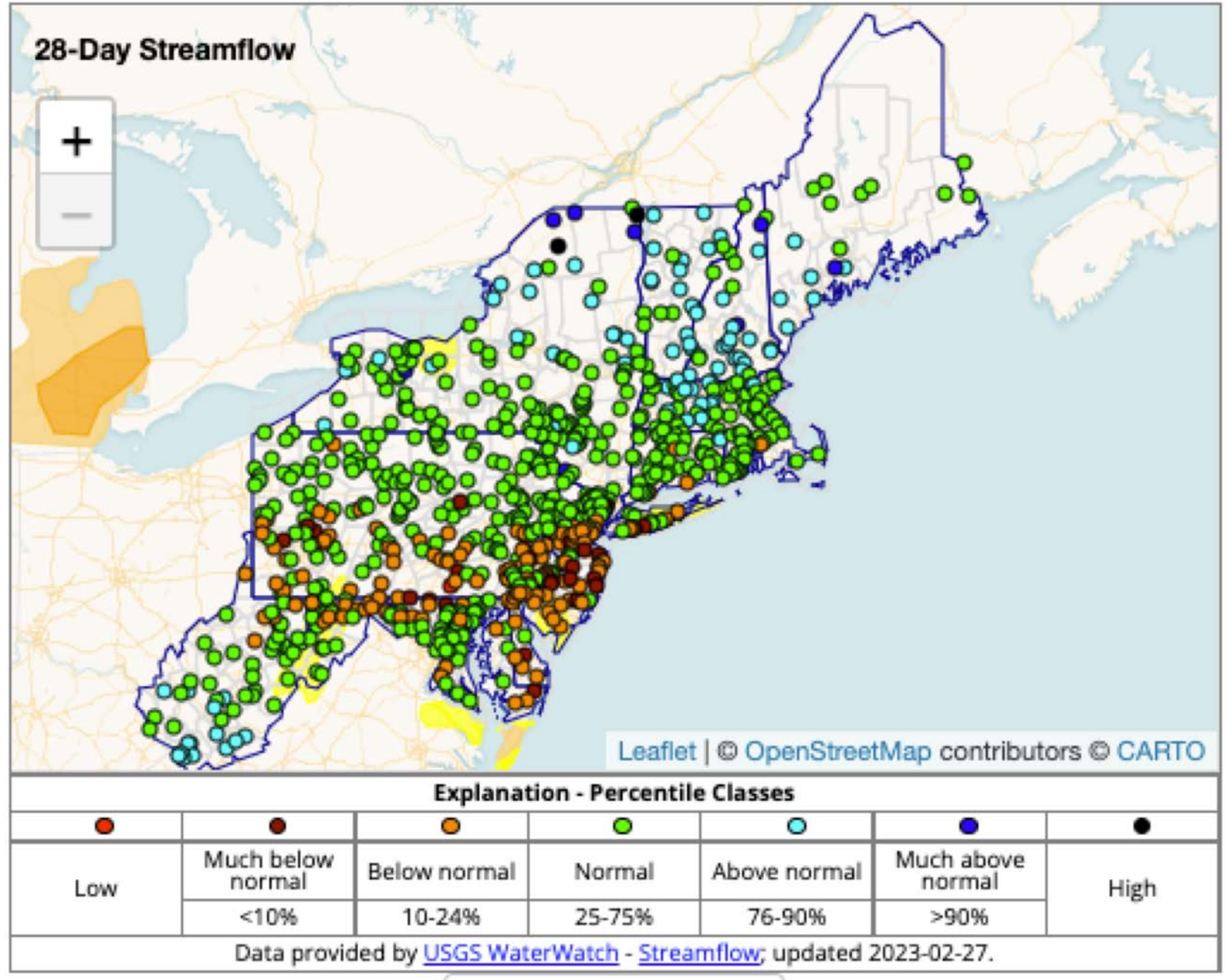


Soil Moisture

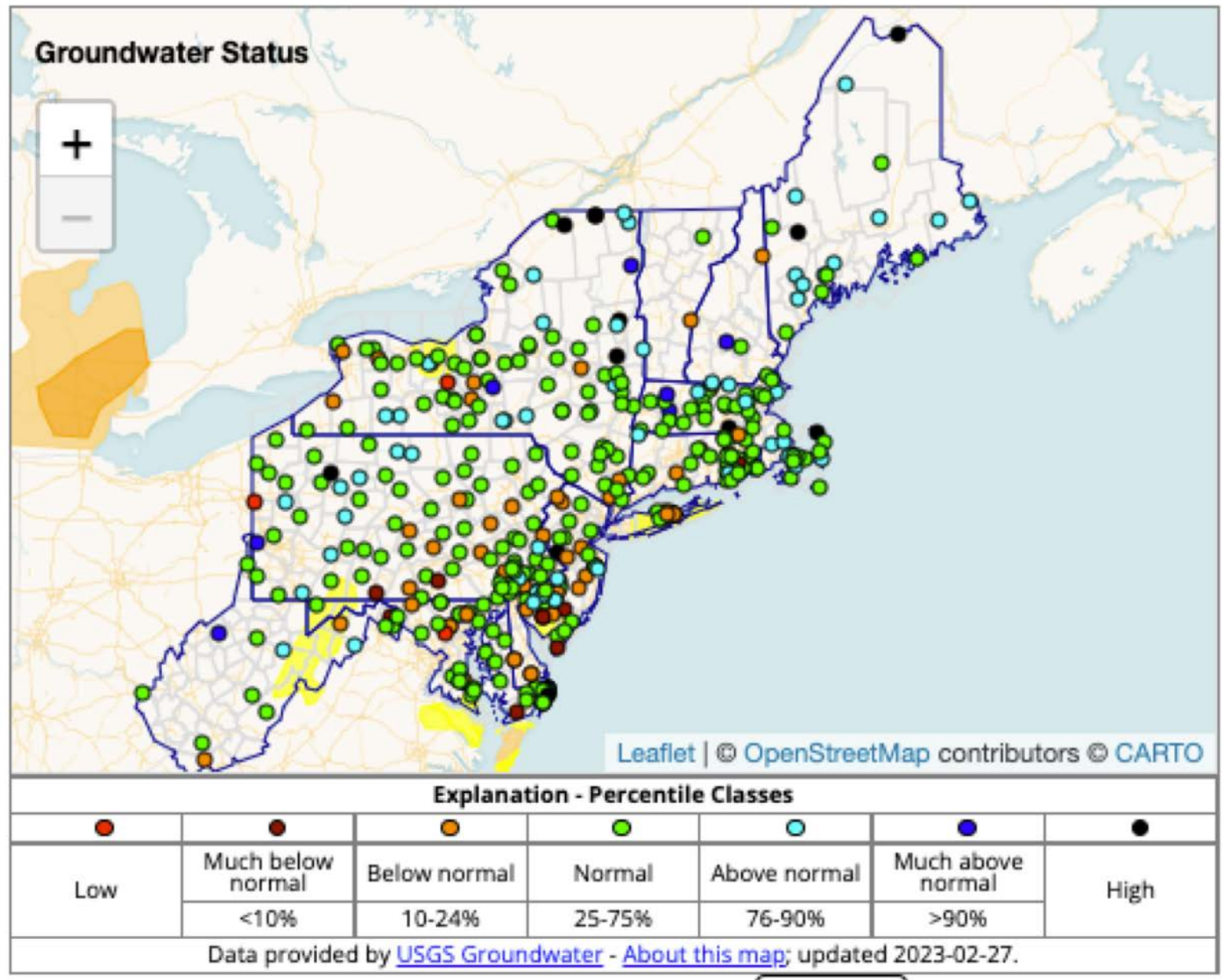
SPoRT-LIS 0-100 cm Soil Moisture percentile valid 28 Feb 2023



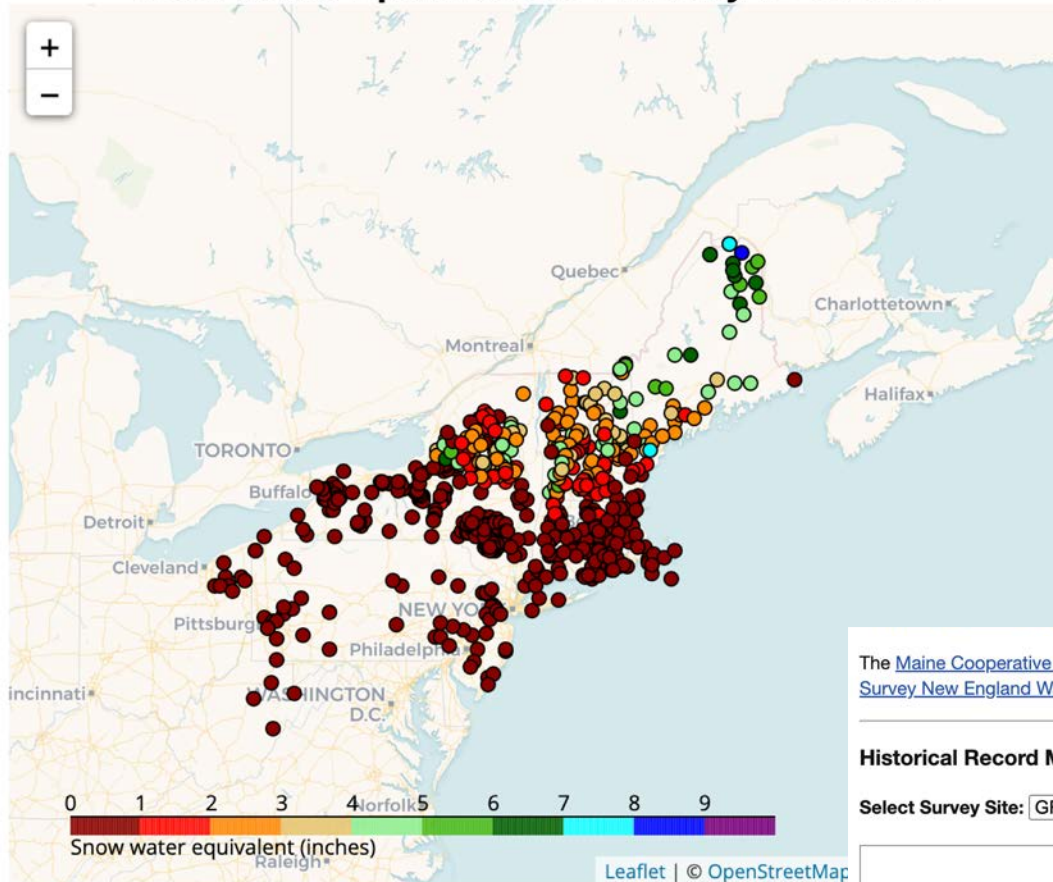
Streamflow



Groundwater



Snow Water Equivalent for February 12-16, 2023



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

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

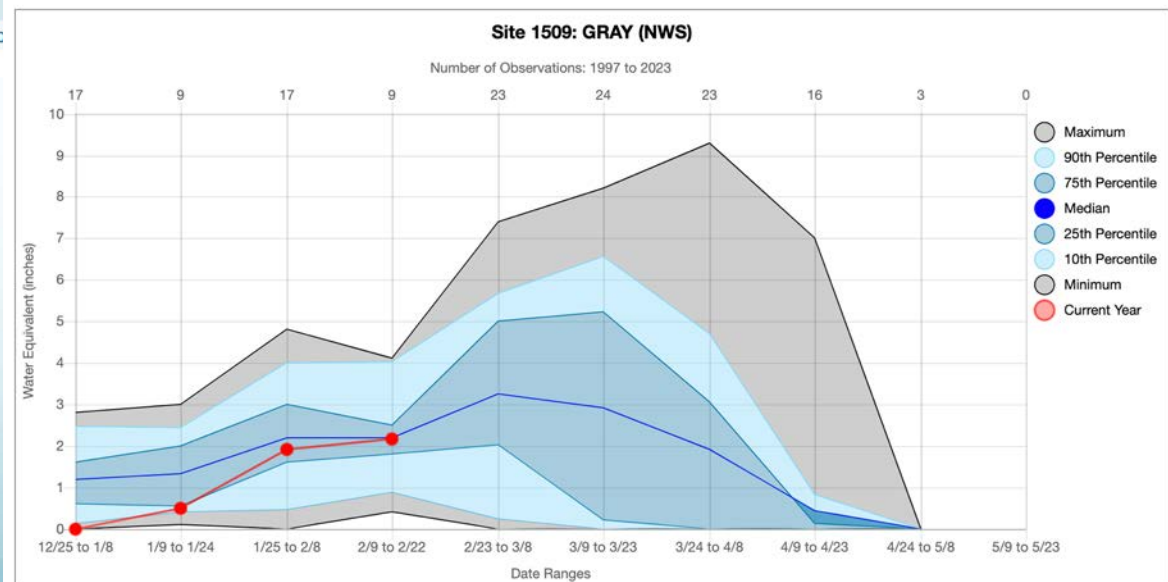


Snow Water Equivalent

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](#).

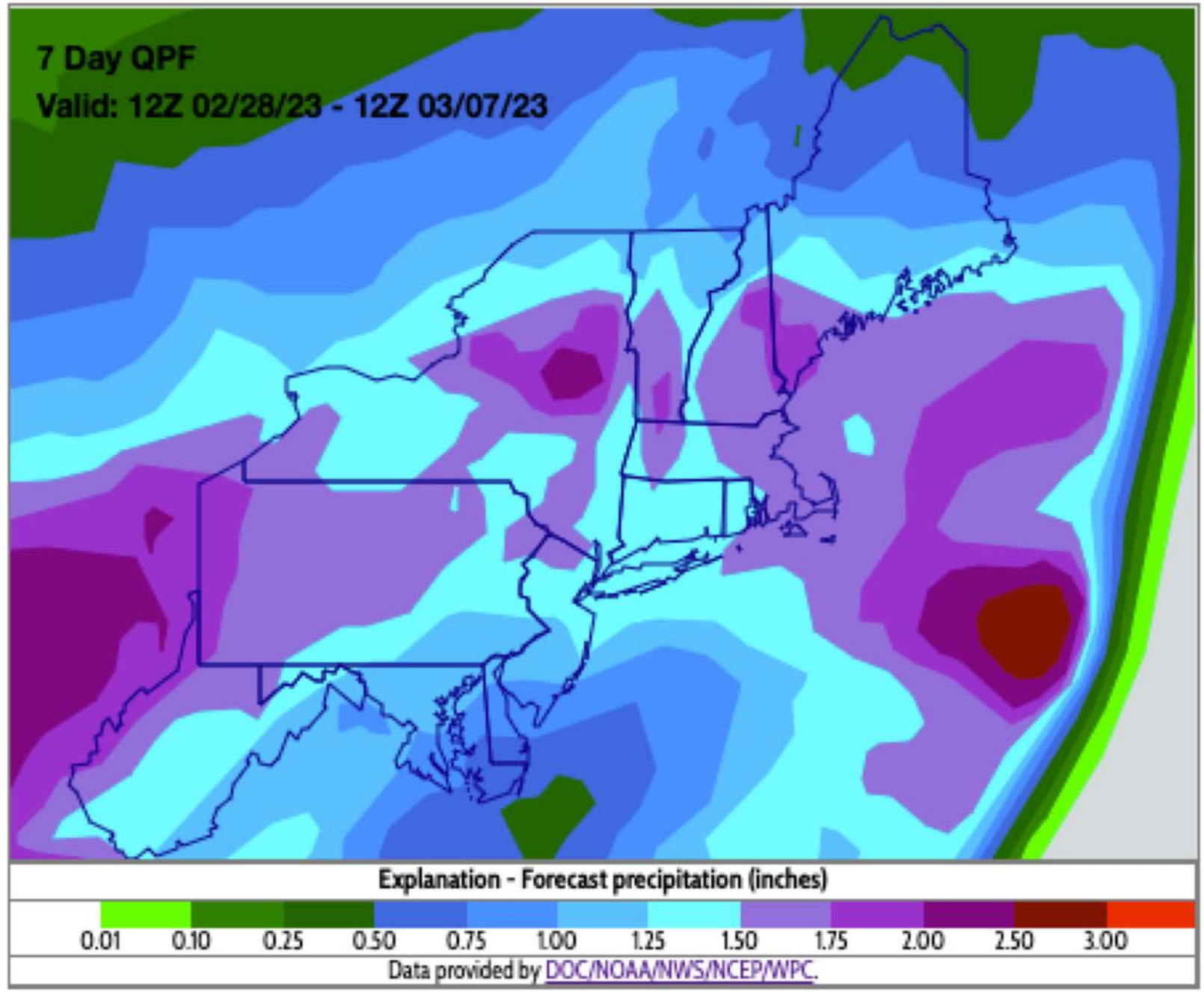
Historical Record Mean Water Content Graph

Select Survey Site:



Updated: February 14, 2023

Precipitation Forecast

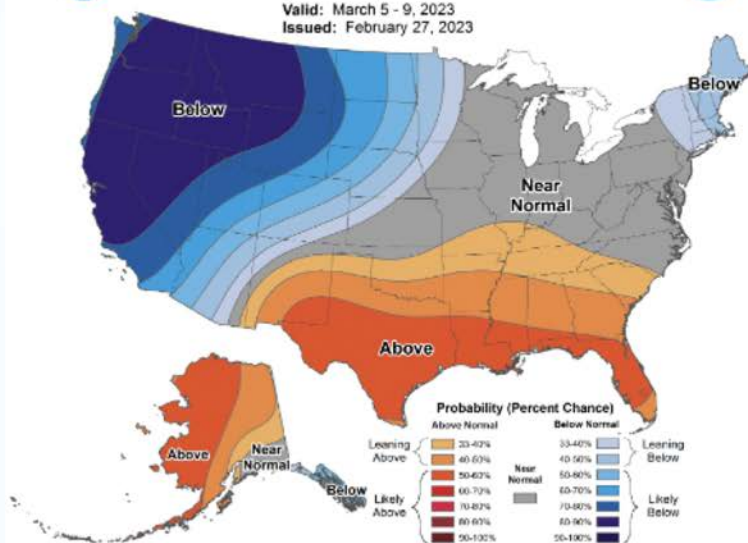


Short-term Outlooks



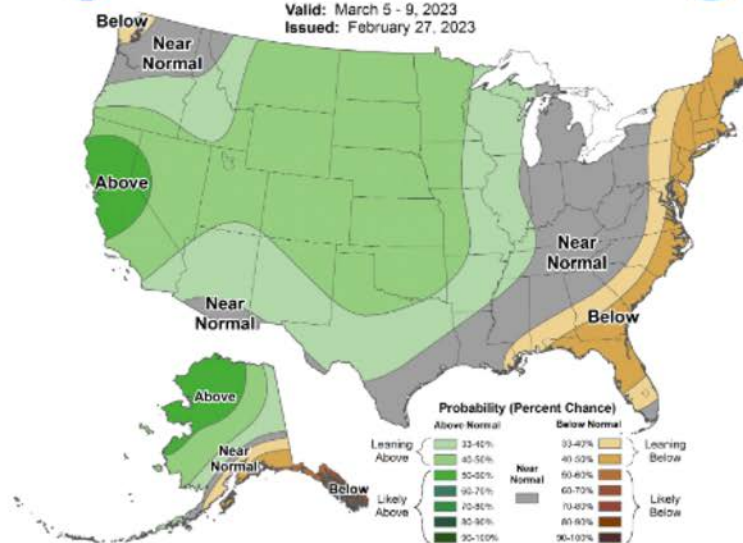
6-10 Day Temperature Outlook

Valid: March 5 - 9, 2023
Issued: February 27, 2023



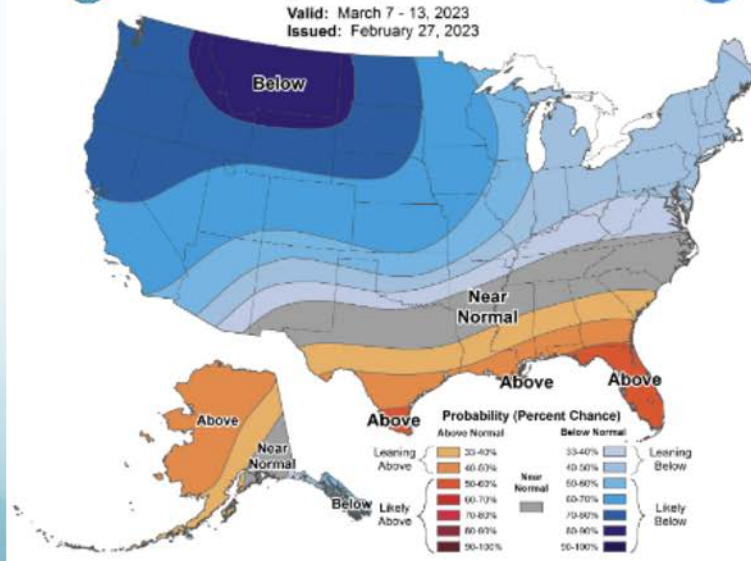
6-10 Day Precipitation Outlook

Valid: March 5 - 9, 2023
Issued: February 27, 2023



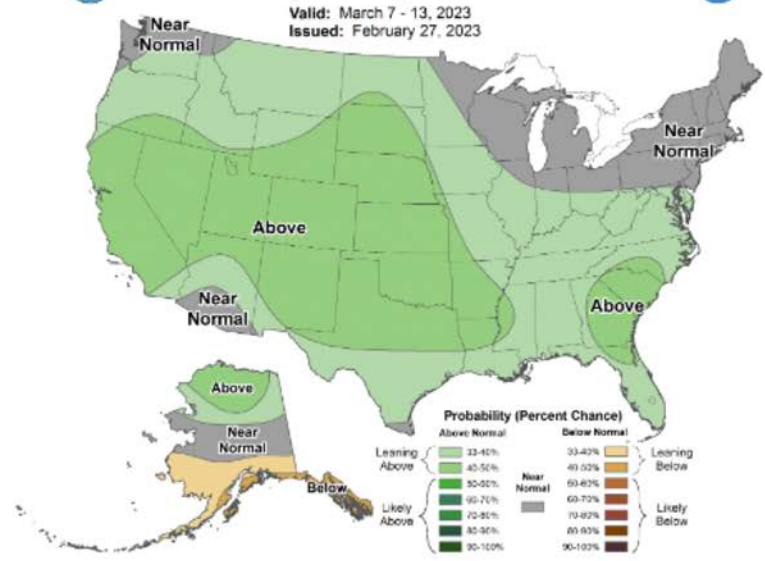
8-14 Day Temperature Outlook

Valid: March 7 - 13, 2023
Issued: February 27, 2023



8-14 Day Precipitation Outlook

Valid: March 7 - 13, 2023
Issued: February 27, 2023

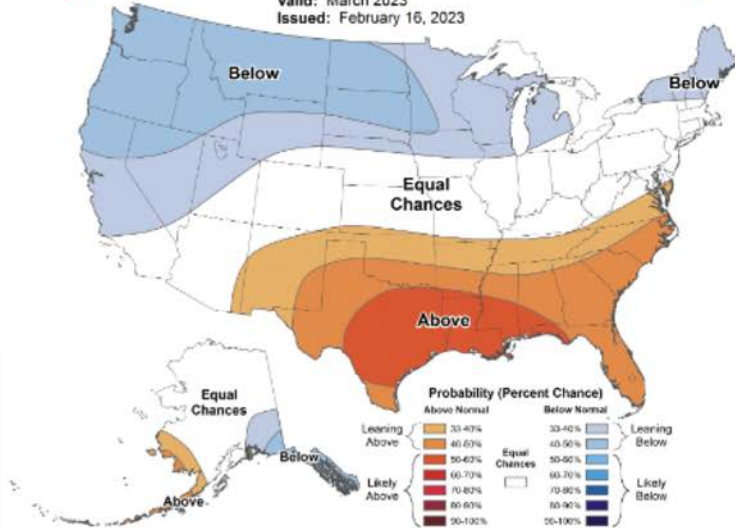


Monthly & 3-Month Outlooks



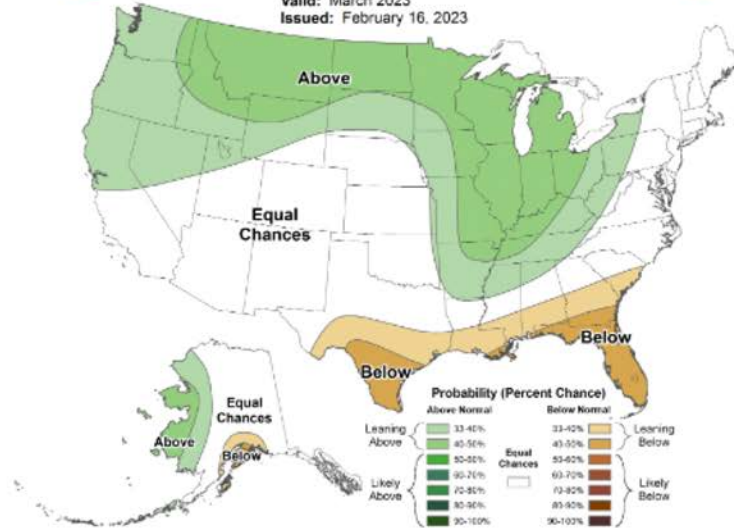
Monthly Temperature Outlook

Valid: March 2023
Issued: February 16, 2023



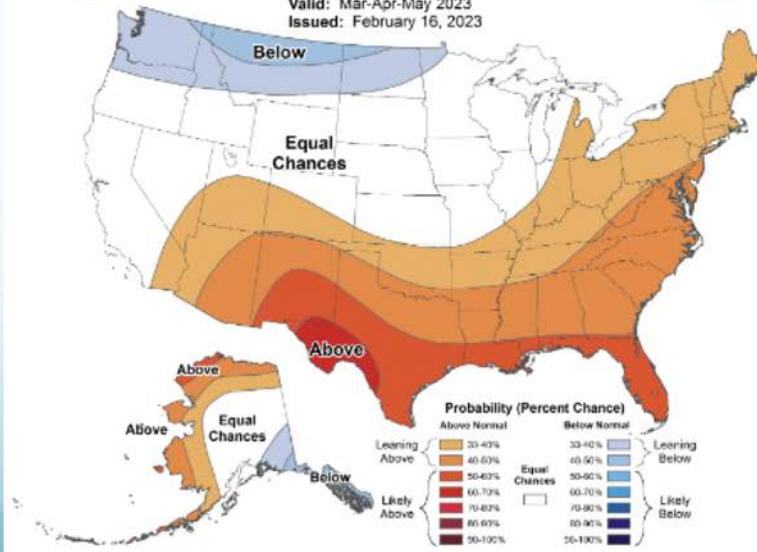
Monthly Precipitation Outlook

Valid: March 2023
Issued: February 16, 2023



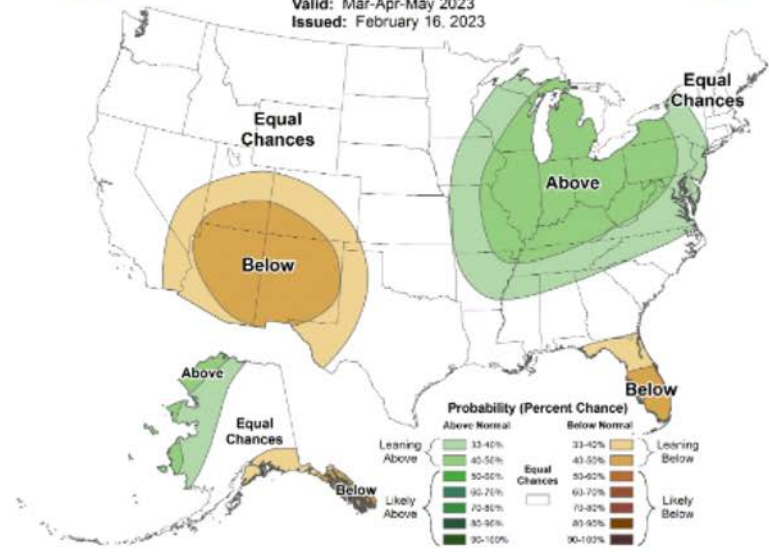
Seasonal Temperature Outlook

Valid: Mar-Apr-May 2023
Issued: February 16, 2023



Seasonal Precipitation Outlook

Valid: Mar-Apr-May 2023
Issued: February 16, 2023



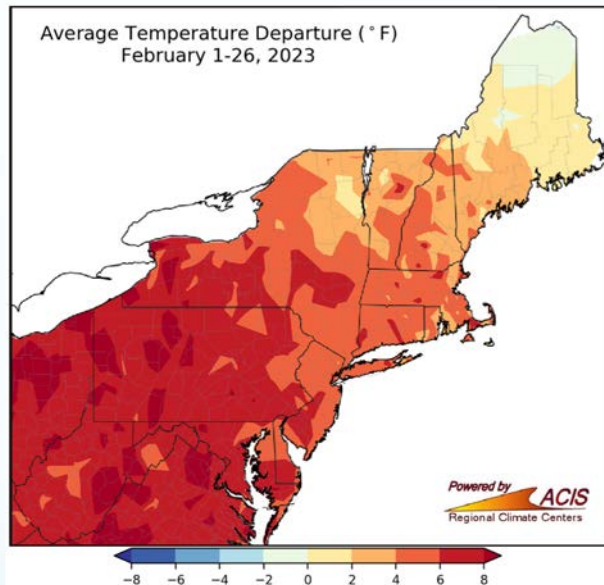
NRCC



Summary

February/Winter-to-date conditions:

- Much-above-normal temperatures – 10 warmest likely for some sites
- Below-normal snowfall for most areas; unusually dry February but a range of winter precipitation amounts; ongoing storm could shift this for several sites



Drought:

- Little change during February
- Watching some areas due to drier-than-normal February and lack of snowpack

Outlooks:

- Short-term: below- or near-normal temperatures favored for both periods; precip – 6-10 day outlook calls for below or near normal but 8-14 day outlook calls for near to above normal
- March/spring: March above-normal precipitation favored for interior areas and above-normal temperatures favored for all



Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Thursday, March 30 at 9:30am EST
 - Spring Flood Outlook
- Thursday, April 27 at 9:30am EST
 - USDA Northeast Climate Hub
- Thursday, May 25 at 9:30am EST
 - TBD



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