December Conditions & Northeast DEWS Discussion

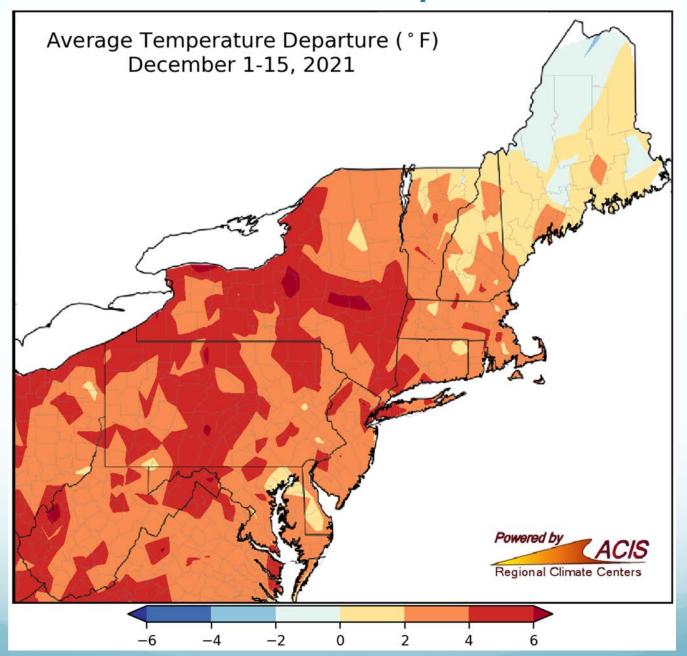
By: Samantha Borisoff, Climatologist Northeast Regional Climate Center







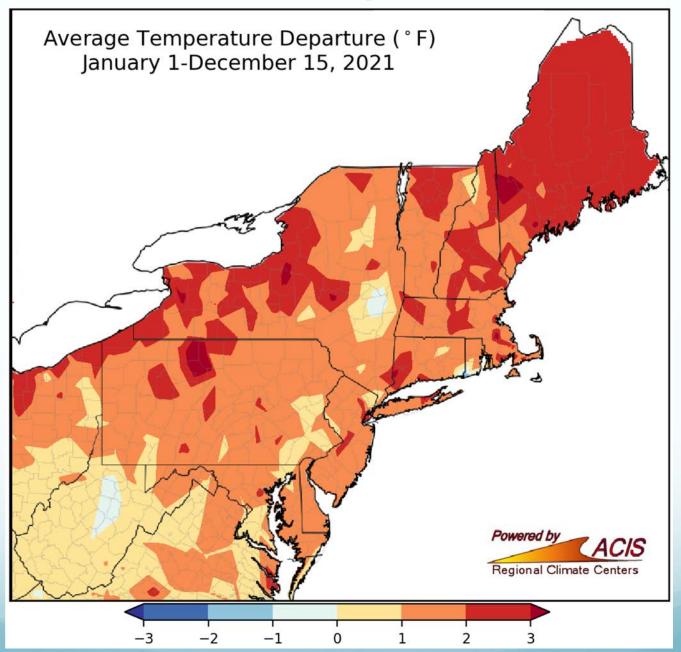
December Temperatures





From 2°F below normal to more than 6°F above normal

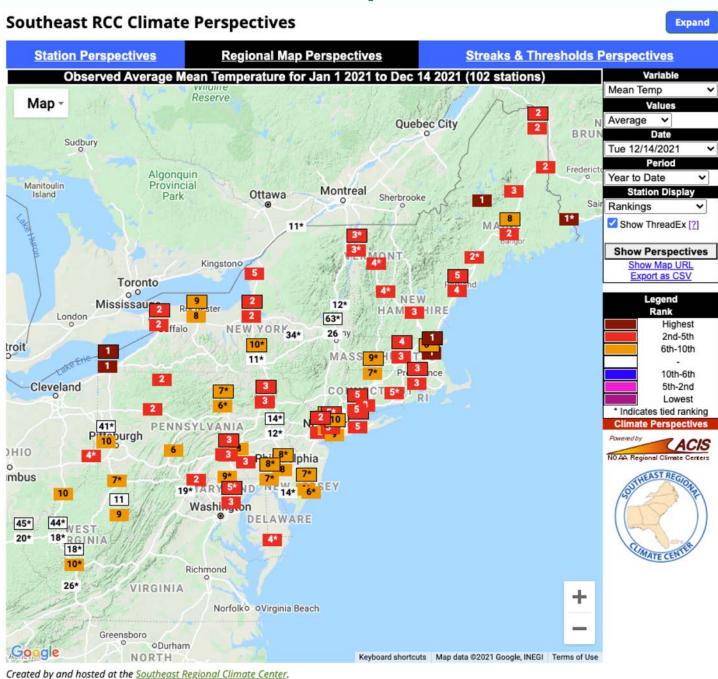
Annual Temperatures





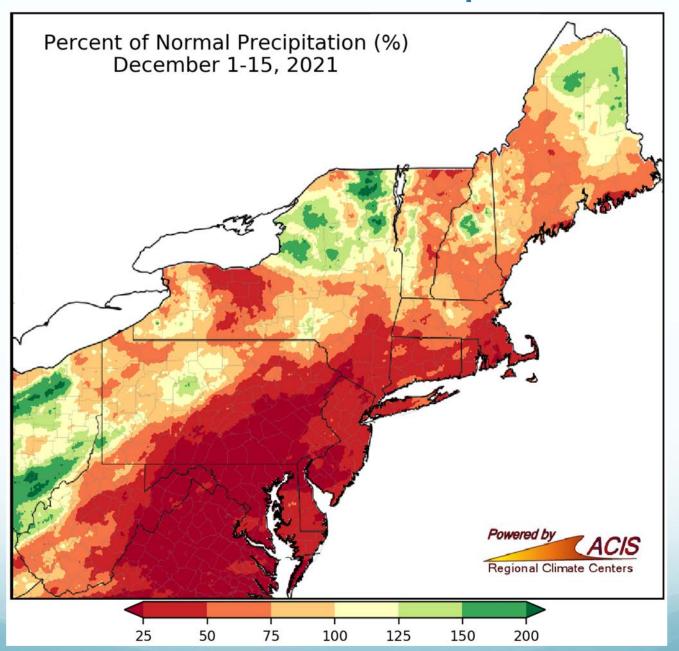
From 1°F below normal to more than 3°F above normal

Annual Temperatures





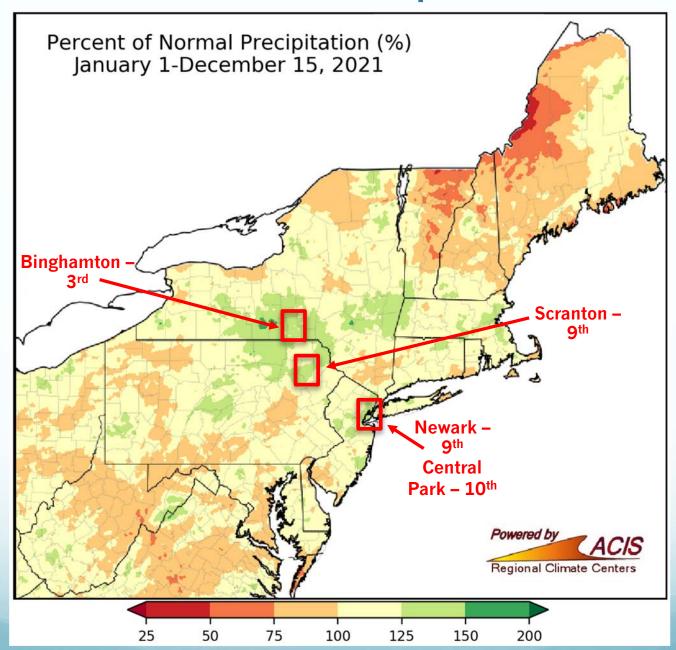
December Precipitation





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

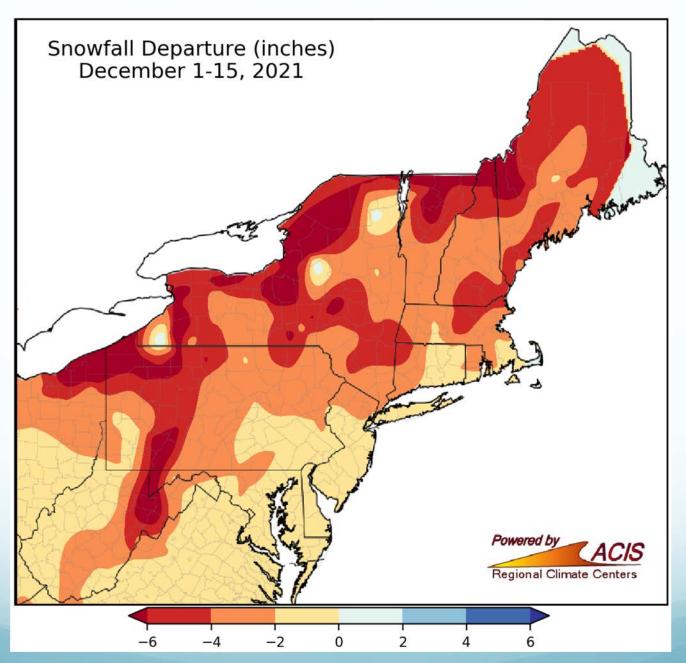
Annual Precipitation





From 50% of normal to 150% of normal

December Snowfall



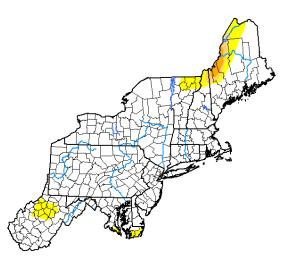


From more than 6" below normal to near normal

ERIE COUNTY				
BUFFALO	71 MPH	0342 PM 12/11	NOS-N	Dec. 11 Winds
BUFFALO AIRPORT	66 MPH	0354 PM 12/11	ASOS	
BLASDELL	65 MPH	0346 PM 12/11	CWOP	DCC. II WIIIGS
HAMBURG	64 MPH	0341 PM 12/11	WXFLO	
ELMA	60 MPH	0508 PM 12/11	CWOP	
				LAKE ERIE NEAR BUFFALO
EAST AURORA	59 MPH	0555 PM 12/11	NYSM	Universal Time (UTC)
ALDEN	58 MPH	0448 PM 12/11	CWOP	107 107 107 107 107 107 107
LANCASTER	58 MPH	0509 PM 12/11	CWOP	19Z
BUFFALO	58 MPH	0510 PM 12/11	NYSM	Dec 5 Dec 6 Dec 7 Dec 8 Dec 9 Dec 10 Dec 11 Dec 12 Dec 13
GRAND ISLAND	56 MPH	0416 PM 12/11	CWOP	13
BRANT	56 MPH	0435 PM 12/11	NYSM	12 - Latest observed value: 4.52 ft at 2:06 PM EST 12-Dec-2021. Flood Stage is 8 ft
ANGOLA 2.91 MILES SE OF	DERB 54 MPH	0525 PM 12/11	NYSM	
				11 Major: 11.0
GENESEE COUNTY				
BATAVIA	70 MDH	0536 PM 12/11	AWOS	10 -
	70 MPH			Moderate: 9.0'
ALABAMA	57 MPH	0525 PM 12/11	RAWS	
				* 8 Minor: 8.0'
JEFFERSON COUNTY				E 8 Minor: 8.0'
FORT DRUM AIRFIELD	66 MPH	0551 PM 12/11	AWOS	<u>□</u> 7 -
CAPE VINCENT	65 MPH	0610 PM 12/11	NYSM	0 6 Action: 6.0
WELLESLEY ISLAND	63 MPH	0740 PM 12/11	NYSM	
WATERTOWN AIRPORT	59 MPH	0619 PM 12/11	ASOS	F 5
TYLERSVILLE	59 MPH	0745 PM 12/11	CWOP	A I I A I I A I I A I I A I I I I I I I
CLAYTON	57 MPH	0700 PM 12/11	CWOP	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PHILADELPHIA	56 MPH	0555 PM 12/11	NYSM	3
BELLEVILLE	53 MPH	0545 PM 12/11	NYSM	2
				"ATMENT OF COM
LEWIS COUNTY				1
HARRISBURG	65 MPH	0740 PM 12/11	NYSM	2pm 2pm 2pm 2pm 2pm 2pm 2pm
				Company Many Trans World Thomas St. Co. 1
COPENHAGEN	58 MPH	0730 PM 12/11	NYSM	Sun Mon Tue Wed Thu Fri Sat Sun Mon
COPENHAGEN GLENFIELD	58 MPH 57 MPH	0730 PM 12/11 0740 PM 12/11	NYSM NYSM	Sun Mon Tue Wed Thu Fri Sat Sun Mon Dec 5 Dec 6 Dec 7 Dec 8 Dec 9 Dec 10 Dec 11 Dec 12 Dec 13
				Dec 5 Dec 6 Dec 7 Dec 8 Dec 9 Dec 10 Dec 11 Dec 12 Dec 13
				Dec 5 Dec 6 Dec 7 Dec 8 Dec 9 Dec 10 Dec 11 Dec 12 Dec 13 Site Time (EST)
GLENFIELDLIVINGSTON COUNTY	57 MPH	0740 PM 12/11	NYSM	Dec 5 Dec 6 Dec 7 Dec 8 Dec 9 Dec 10 Dec 11 Dec 12 Dec 13 Site Time (EST) Graph Created (2:31PM Dec 12, 2021) → Observed
GLENFIELDLIVINGSTON COUNTY YORK	57 MPH	0740 PM 12/11 0635 PM 12/11	NYSM	Dec 5 Dec 6 Dec 7 Dec 8 Dec 9 Dec 10 Dec 11 Dec 12 Dec 13 Site Time (EST) Graph Created (2:31PM Dec 12, 2021) Observed Discreptions courtesy of National Ocean Service
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GLENFIELDLIVINGSTON COUNTY YORK DANSVILLE AIRPORTMONROE COUNTY	57 MPH 59 MPH 35 MPH	0740 PM 12/11 0635 PM 12/11 0206 PM 12/11	NYSM NYSM ASOS	Dec 5 Dec 6 Dec 7 Dec 8 Dec 9 Dec 10 Dec 11 Dec 12 Dec 13 Site Time (EST) Graph Created (2:31PM Dec 12, 2021) Observed BUFN6(plotting HMIRG) "Gage 0" Datum: n/a Observations courtesy of National Ocean Service
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GLENFIELDLIVINGSTON COUNTY YORK DANSVILLE AIRPORTMONROE COUNTY BROCKPORT GREECE	57 MPH 59 MPH 35 MPH 63 MPH 62 MPH	0740 PM 12/11 0635 PM 12/11 0206 PM 12/11 0655 PM 12/11 0510 PM 12/11	NYSM NYSM ASOS NYSM CWOP	Dec 5 Dec 6 Dec 7 Dec 8 Dec 9 Dec 10 Dec 11 Dec 12 Dec 13 Site Time (EST) Graph Created (2:31PM Dec 12, 2021) Observed BUFN6(plotting HMIRG) "Gage 0" Datum: n/a Observations courtesy of National Ocean Service Jeferson Markham Oshawa
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Drought Monitor

U.S. Drought Monitor Northeast Climate Region



November 23, 2021 (Released Wednesday, Nov. 24, 2021) Valid 7 a.m. EST

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: Richard Heim NCEI/NOAA



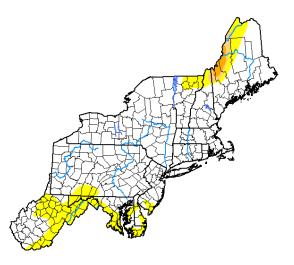






droughtmonitor.unl.edu

U.S. Drought Monitor Northeast Climate Region



December 14, 2021

(Released Thursday, Dec. 16, 2021) Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	82.68	15.28	1.19	0.85	0.00	0.00
Last Week 12-07-2021	88.83	9.13	1.19	0.85	0.00	0.00
3 Month's Ago 09-14-2021	85.14	8.77	5.29	0.80	0.00	0.00
Start of Calendar Year 12-29-2020	77.60	18.77	3.63	0.00	0.00	0.00
Start of Water Year 09-28-2021	90.30	6.56	2.35	0.80	0.00	0.00
One Year Ago 12-15-2020	60.32	22.80	16.44	0.44	0.00	0.00

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: David Simeral Western Region

Western Regional Climate Center

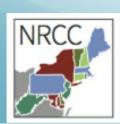




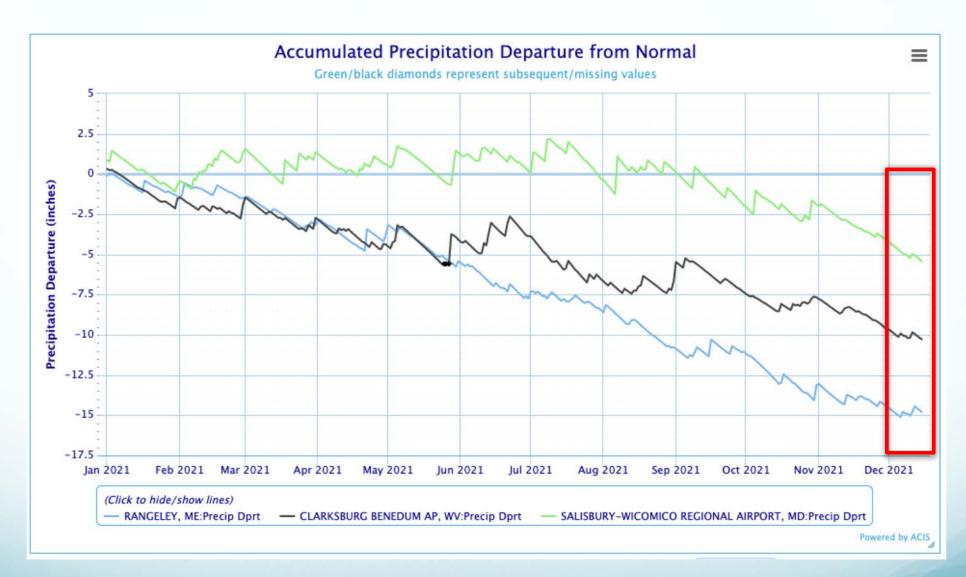




droughtmonitor.unl.edu

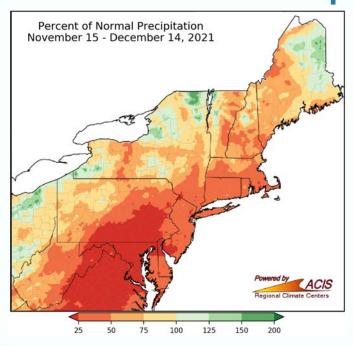


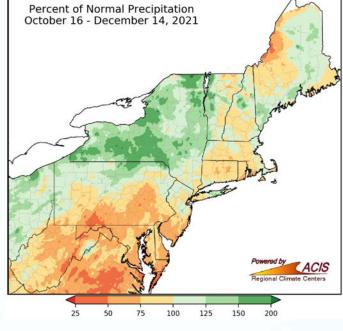
Precipitation

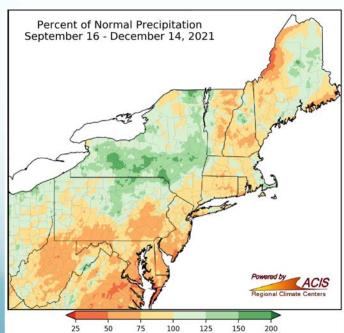


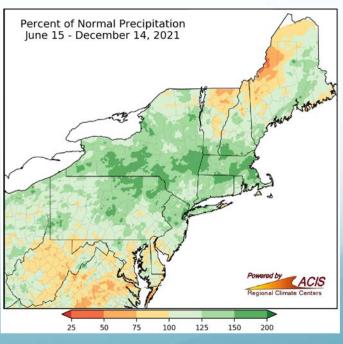


Precipitation









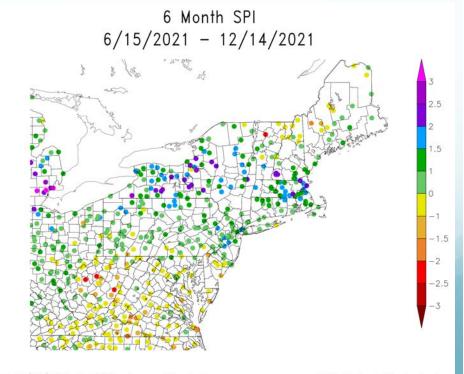


30 Day SPI 11/15/2021 - 12/14/2021 3 2.5 2 1.5 1 0 -1 -1.5 -2 -2.5 -3

Standardized Precipitation Index

Generated 12/15/2021 at HPRCC using provisional data.

NOAA Regional Climate Centers

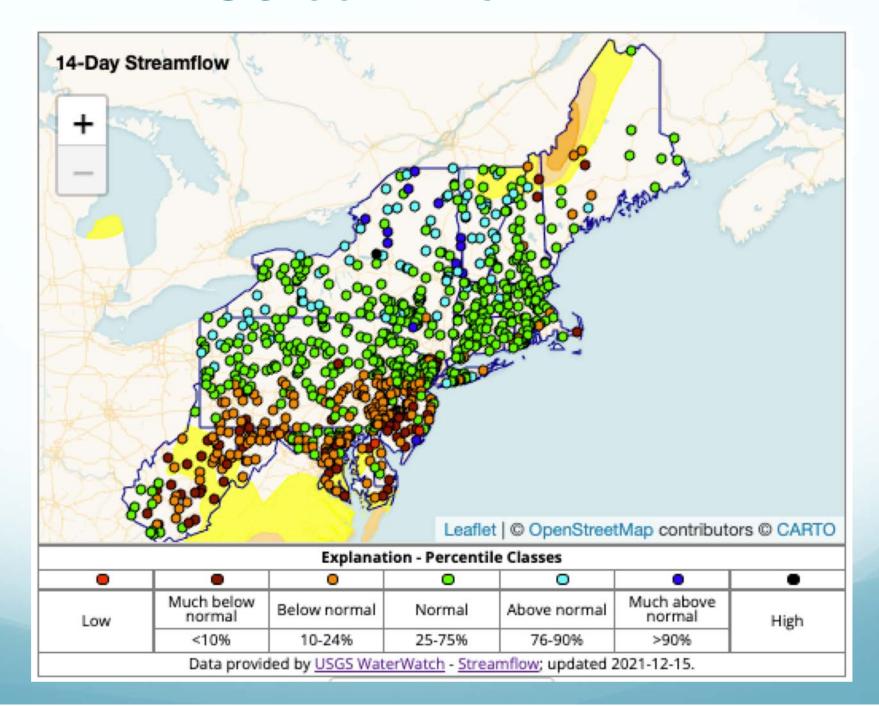




Generated 12/15/2021 at HPRCC using provisional data.

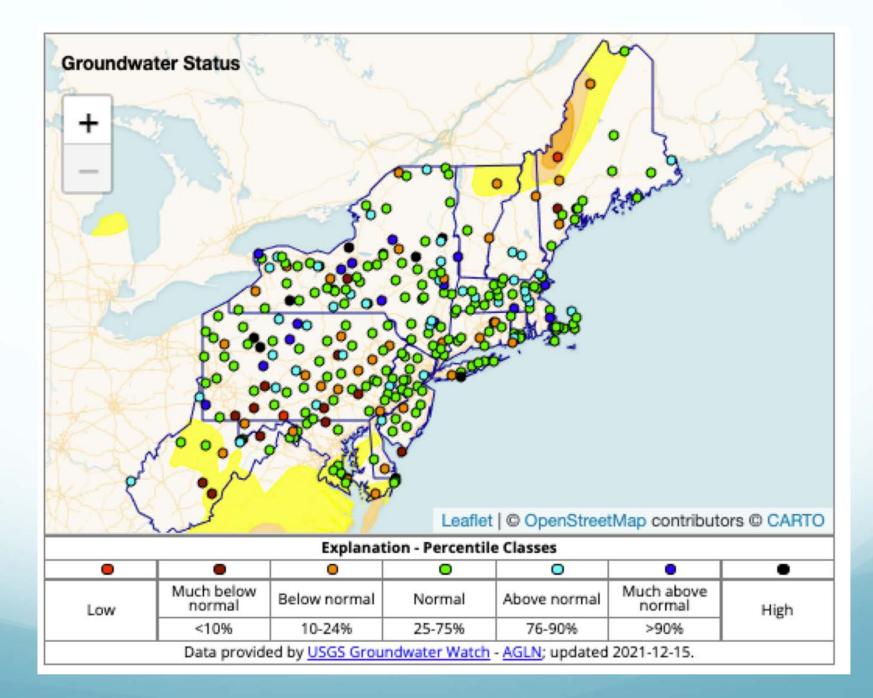
NOAA Regional Climate Centers

Streamflow



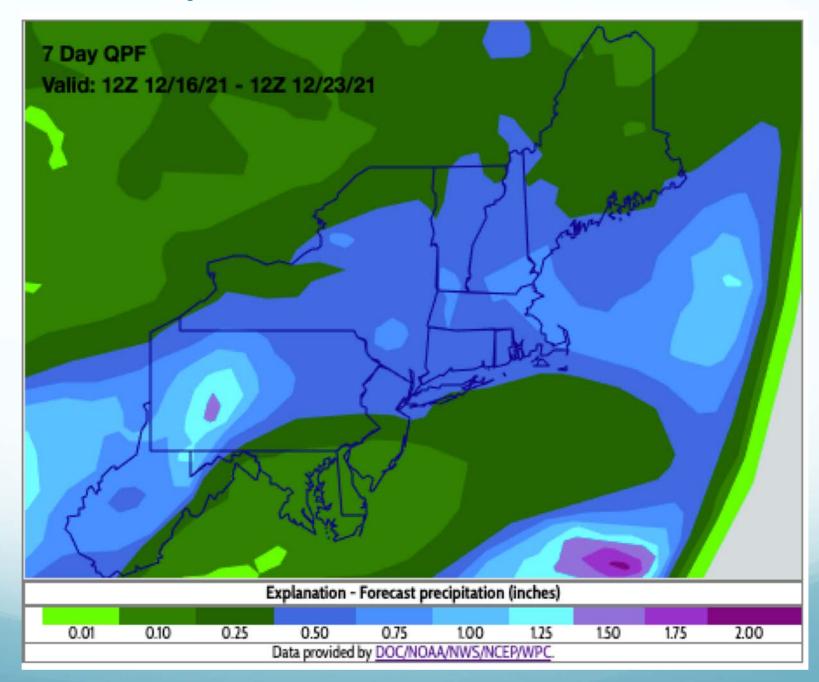


Groundwater



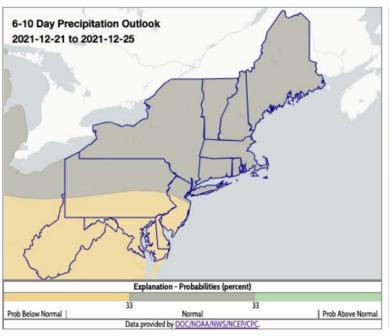


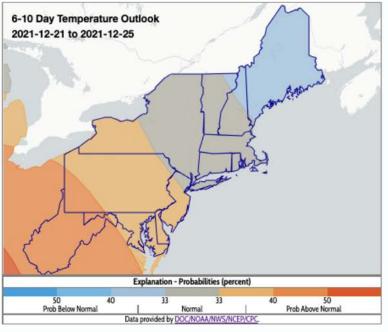
Precipitation Forecast

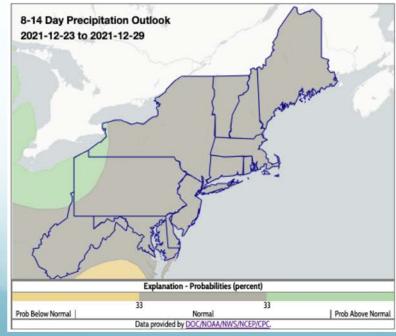


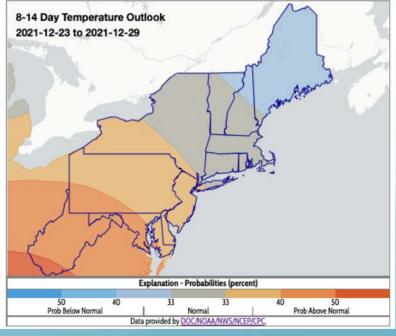


Short-term Outlooks

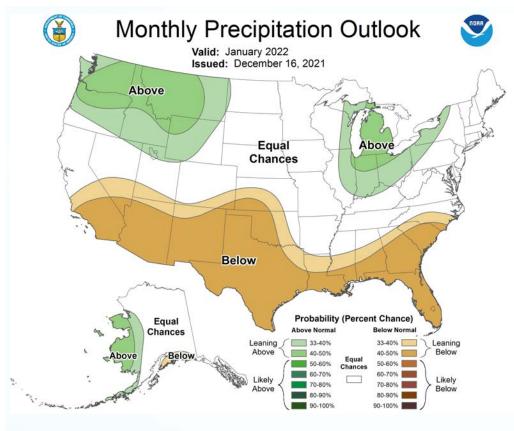




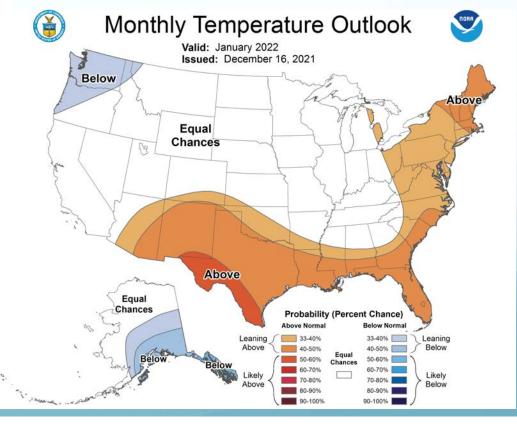








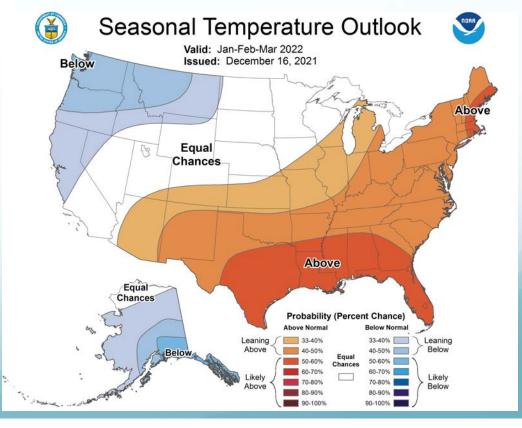
Monthly Outlooks





Seasonal Precipitation Outlook Valid: Jan-Feb-Mar 2022 Issued: December 16, 2021 Above Equal Chances Above Below Below Probability (Percent Chance) Equal **Below Normal** Chances Leaning 33-40% Leaning Above 40-50% 50-60% 50-60% Likely Likely Below 80-90% 80-90% 90-100% 90-100%

Three-Month Outlooks





Contact Information

nrcc@cornell.edu

Upcoming Webinars

- Thursday, January 27 at 9:30am
 - NOAA Fisheries Northeast/Mid-Atlantic Habitat Climate Vulnerability Assessment
- Thursday, February 24 at 9:30am
 - Northeast U.S. Snow Survey and SWE Climatology
- Thursday, March 31 at 9:30am
 - Spring Flood Outlook



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