

September Review & Northeast DEWS Discussion

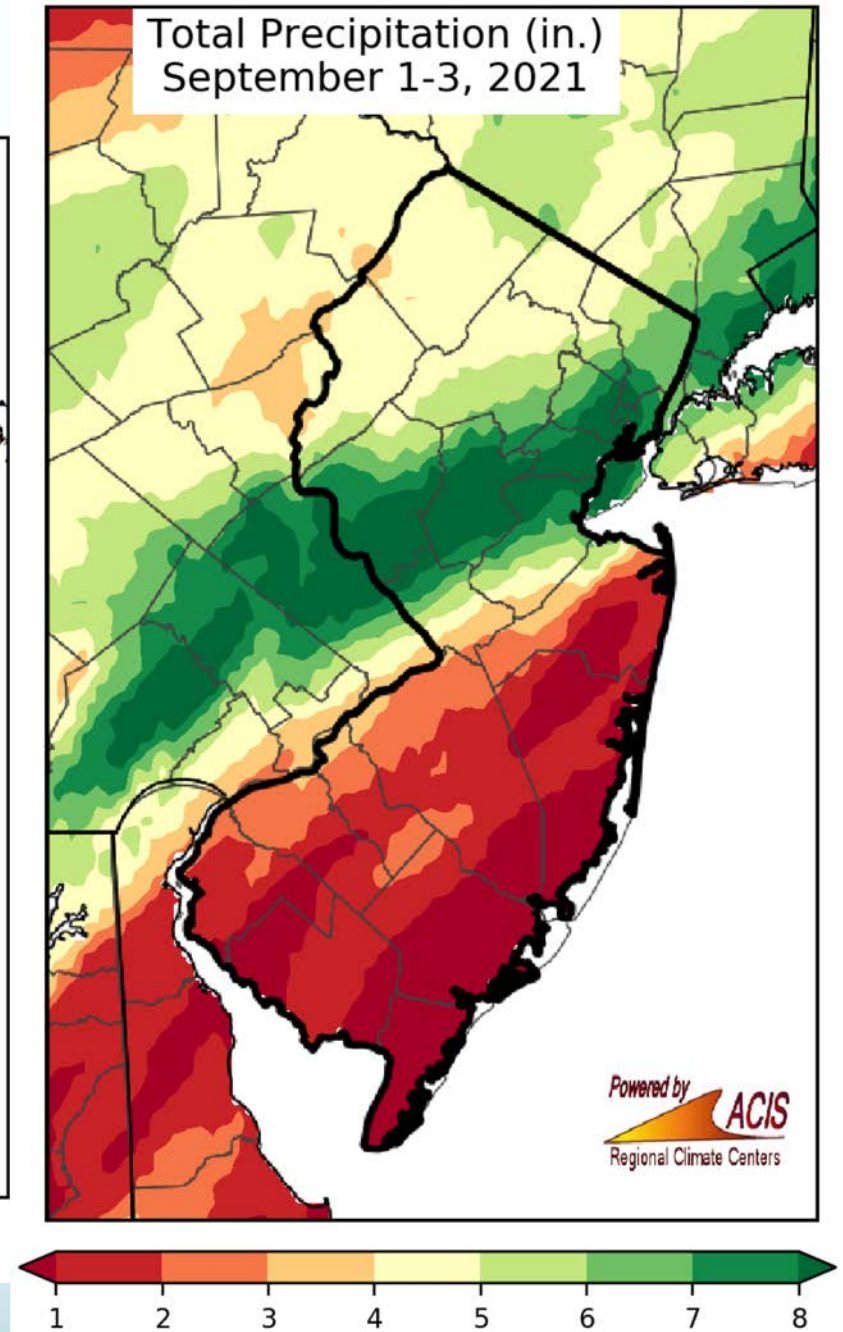
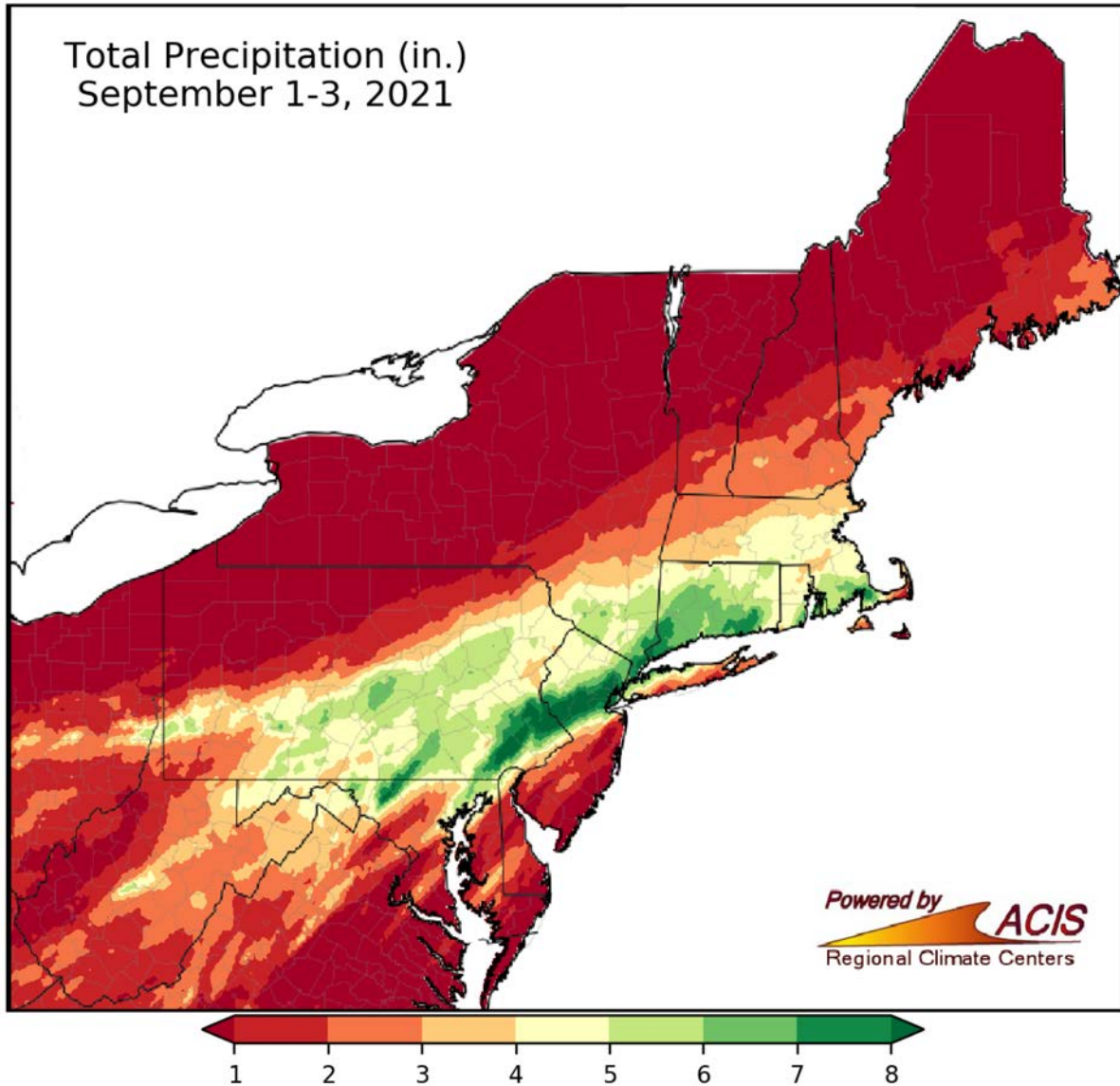
By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center



Northeast Regional
Climate Center



Ida Rainfall



Ida Rainfall

Station	Sep. 1 Rainfall	Wettest Sep. Day Rank	All-time Wettest Day Rank	Wettest Sep. (month) Rank
Newark, NJ	8.41	1	1	4
Central Park, NY	7.13	2	5	18
LaGuardia Airport, NY	6.80	1	1	9
Harrisburg, PA	6.64	2	3	13
Bridgeport, CT	5.77	1	3	13
Scranton, PA	5.09	2	2	
Allentown, PA	4.15	6		
Baltimore, MD	4.13	8		
Hartford, CT	4.07	7		
Kennedy Airport, NY	2.56	7		

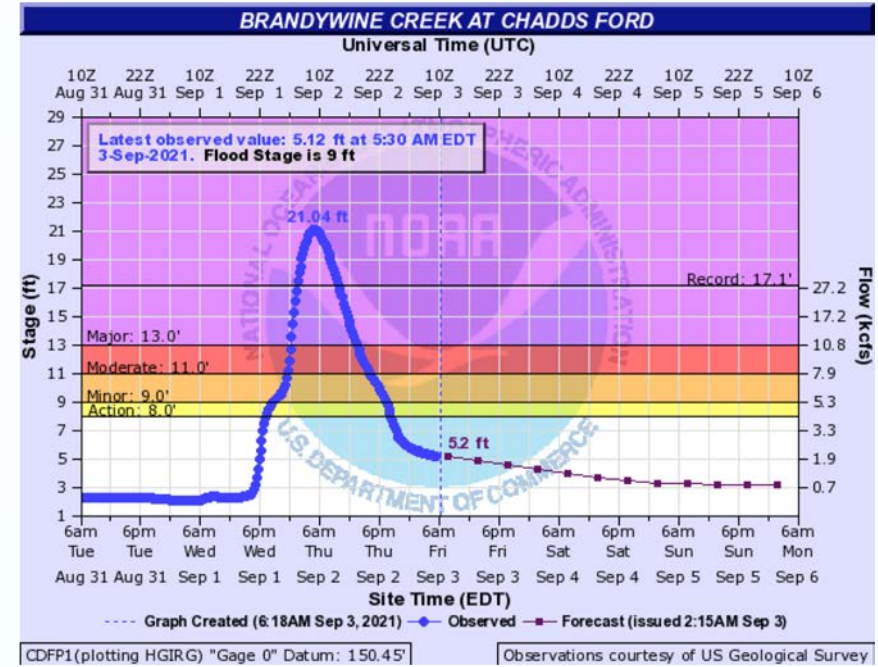
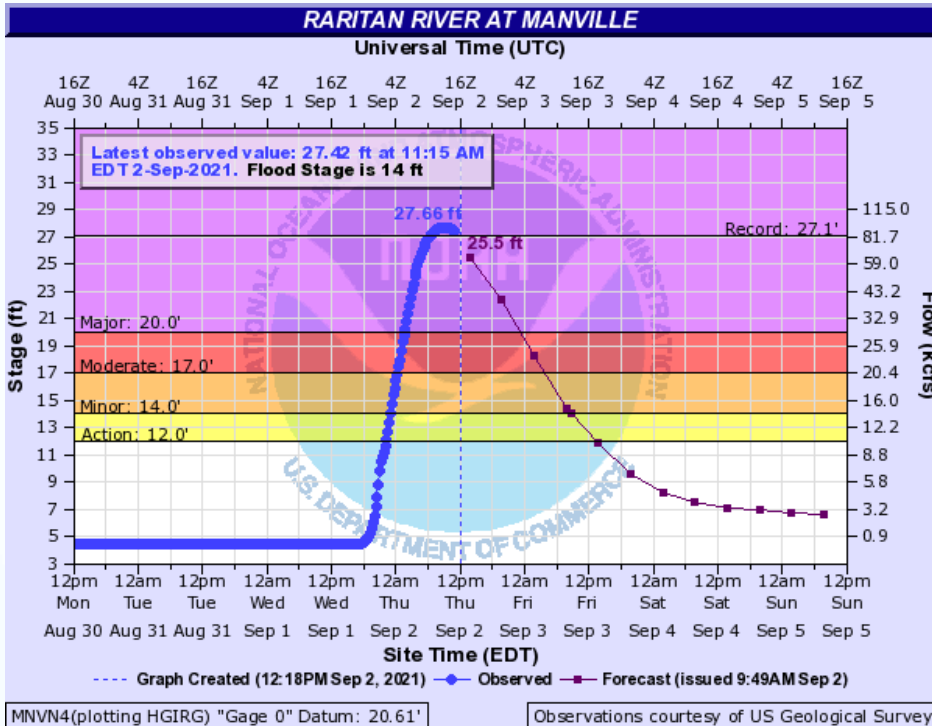
Station	Hourly Period of Record	1-hour Rainfall	2-hour Rainfall	6-hour Rainfall	Daily Period of Record	Daily Rainfall
Central Park, NY	1889-2020	3.15*	4.65*	6.63*	1882-2020	7.13
LaGuardia Airport, NY	1948-2020	2.25		5.87*	1916-2020	6.80*
Newark, NJ	1948-2020	3.24*	5.06*	7.88*	1897-2020	8.41*
Westchester Co. Airport, NY	1948-2020	2.16	3.73	5.59	1944-2020	6.06

* denotes amount was the greatest for the period of record

Station	1-hour Return Period	2-hour Return Period	6-hour Return Period	Daily Return Period
Central Park, NY	100+	500+	200+	25-50
LaGuardia Airport, NY	10+		100+	25-50
Newark, NJ	200+	500+	500+	100+
Westchester Co. Airport, NY	25-50	200+	100+	10-25



Ida Flooding



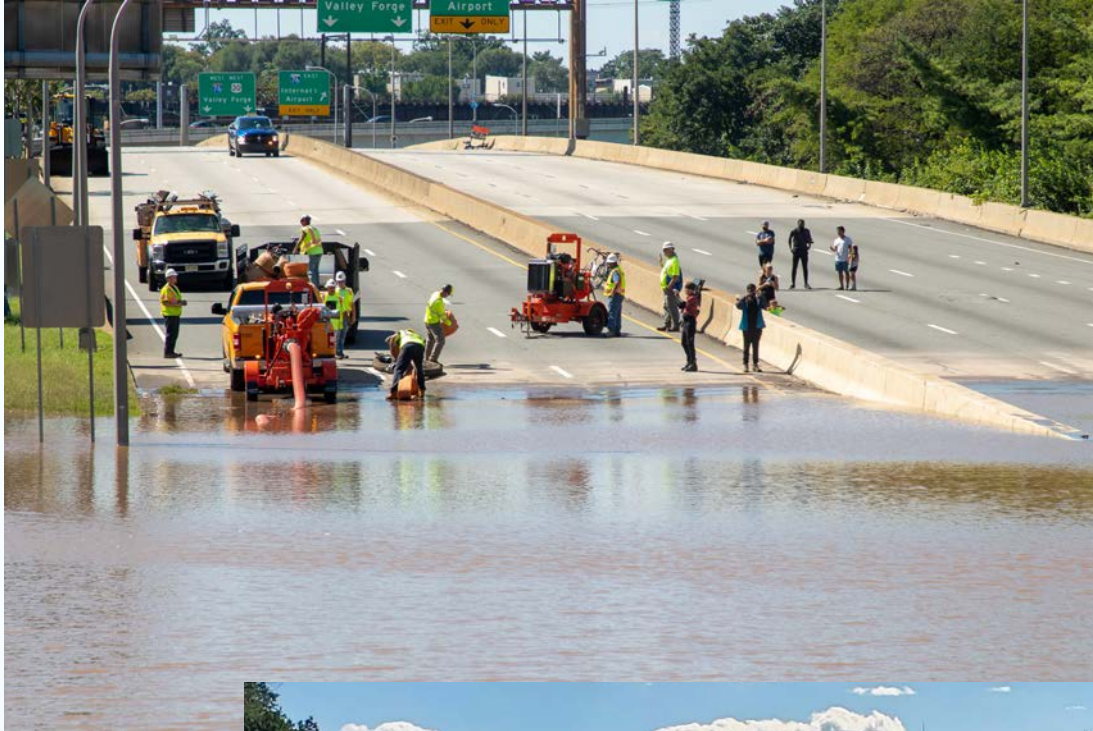
Neshaminy Creek at Langhorne, PA Wednesday morning September 1

Notice from the same location while cresting during this major flood

- 1) the water height and
- 2) the amount of vegetation flattened by the flowing water.



Ida Flooding



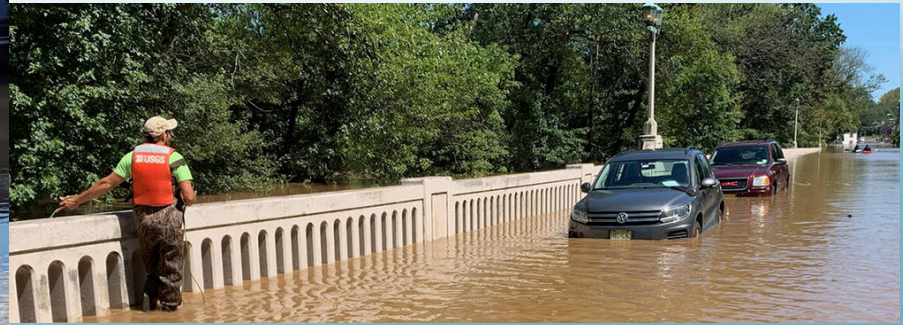
Courtesy of
City of
Philadelphia



Courtesy of
NYS DEC



Courtesy of
NYS Police



Courtesy of
USGS

Ida Tornadoes



Courtesy of
NWS PHI

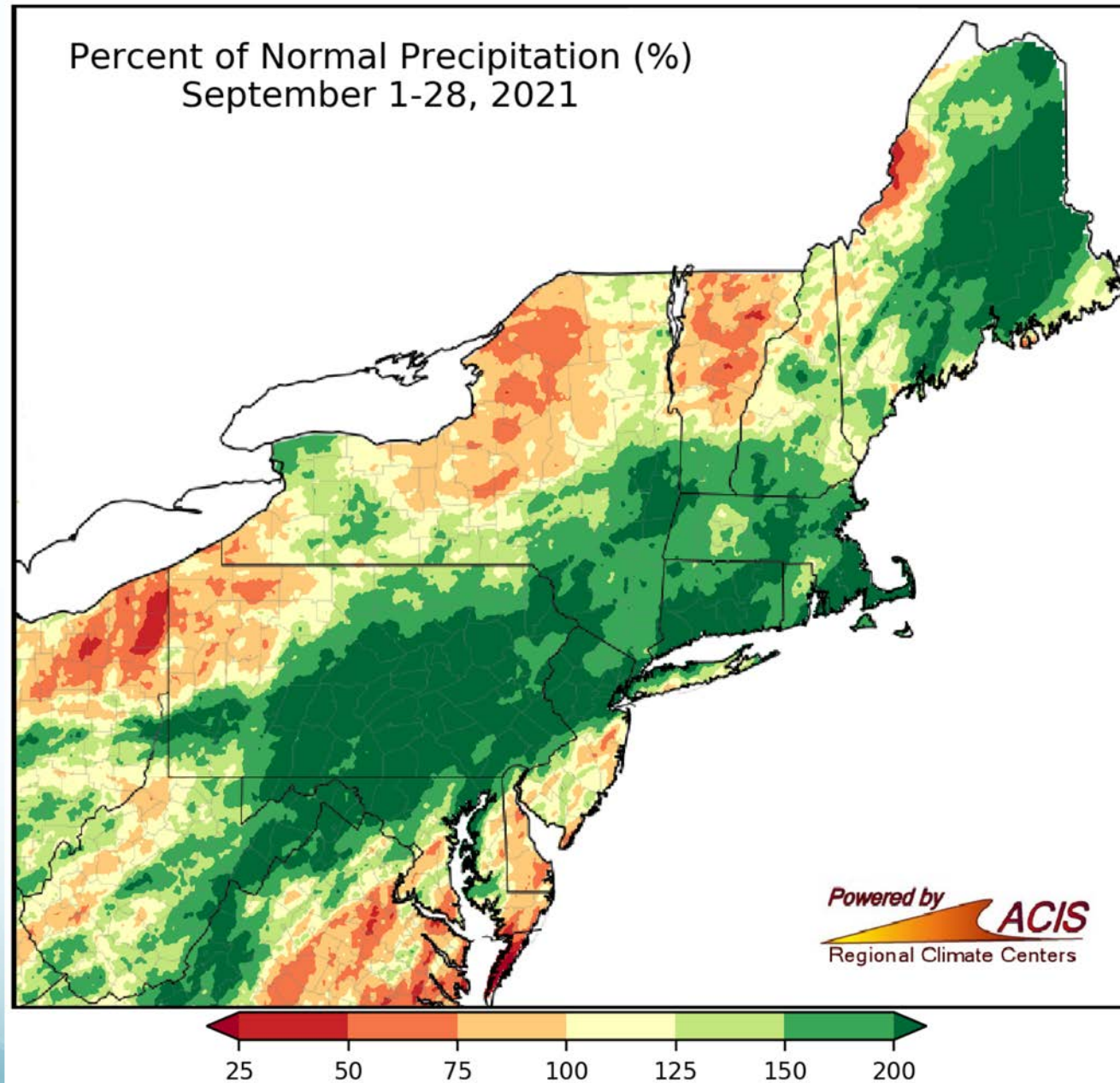
Courtesy of
NWS PHI



Courtesy of NWS LWX



September Precipitation



From 50% of normal to more than 200% of normal



September Precipitation

Maximum 1-Month Total Precipitation for Avoca Area, PA (ThreadEx)

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

Rank	Value	Ending Date	Missing Days
1	11.76	1955-08-31	0
2	11.75	1945-07-31	0
3	11.46	2011-09-30	0
4	10.59	2018-08-31	0
5	10.49	2021-09-30	2
6	9.76	1999-09-30	0
7	9.70	1947-07-31	0
8	9.56	1983-04-30	0
9	9.41	1946-07-31	0
10	9.38	2004-09-30	0

Period of record: 1901-01-01 to 2021-09-28

Location	Sep Rank (wettest)*
Newark, NJ	1
Bridgeport, CT	2
Scranton, PA	2
Harrisburg, PA	3
LaGuardia Airport, NY	4
Central Park, NY	6
Boston, MA	7
Caribou, ME	7
Washington, DC	7
Allentown, PA	8
Islip, NY	9
Worcester, MA	10
Dulles Airport, VA	16
Kennedy Airport, NY	16
Binghamton, NY	17
Elkins, WV	17
Hartford, CT	17
Buffalo, NY	19

*data through Sep. 28

Maximum 1-Month Total Precipitation for Newark Area, NJ (ThreadEx)

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

Rank	Value	Ending Date	Missing Days
1	18.79	2011-08-31	0
2	13.22	2005-10-31	0
3	11.85	2007-04-30	0
4	11.84	1955-08-31	0
5	11.53	1977-11-30	0
6	11.22	2020-07-31	0
7	11.14	1983-03-31	0
-	11.14	1983-04-30	0
9	10.63	1971-08-31	0
10	10.50	2003-06-30	0
-	10.50	2021-09-30	2

Period of record: 1931-02-01 to 2021-09-28

Maximum 1-Month Total Precipitation for Middletown-Harrisburg Area, PA (ThreadEx)

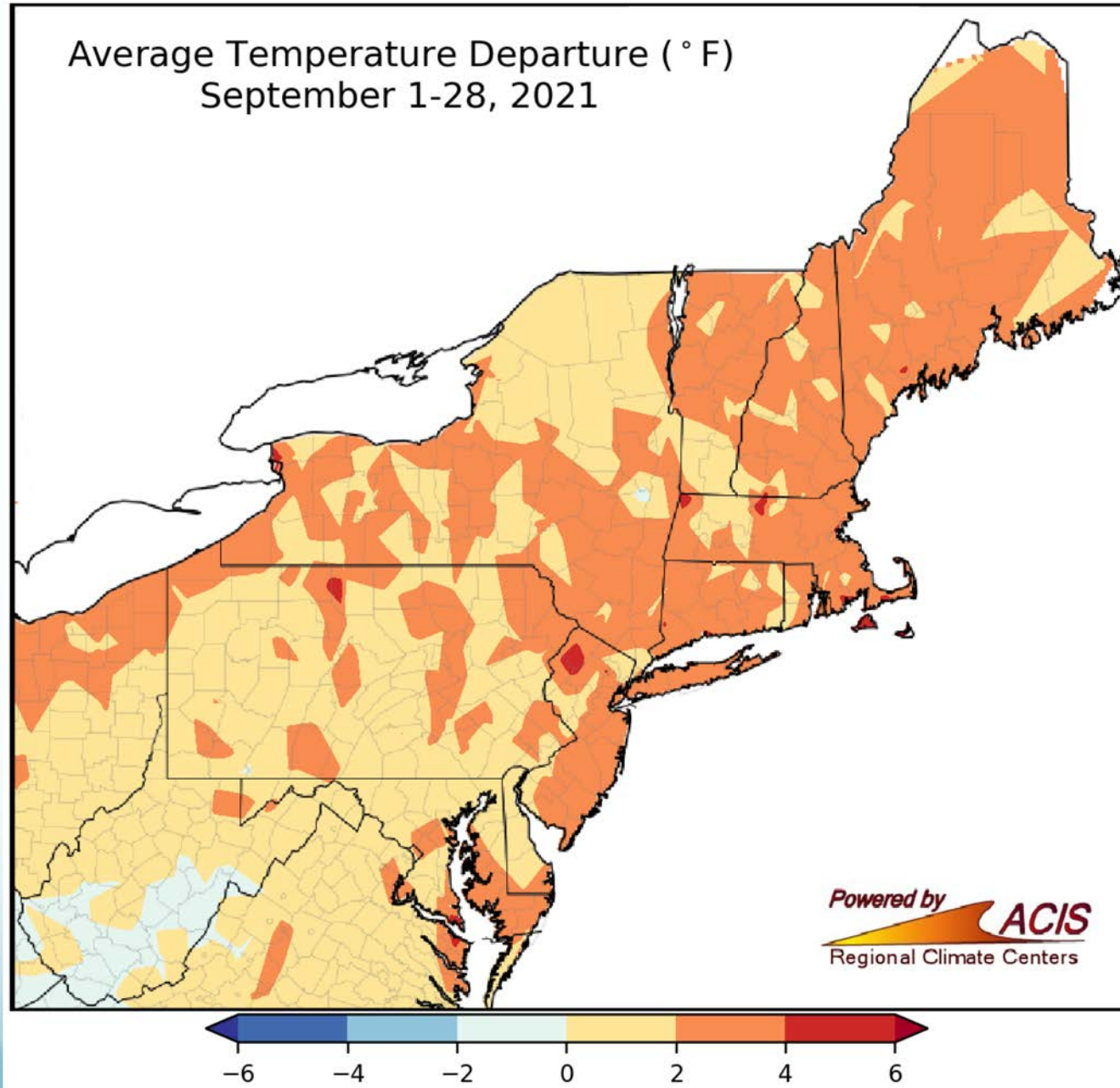
Click column heading to sort ascending, click again to sort descending.

Rank	Value	Ending Date	Missing Days
1	18.55	1972-06-30	0
2	18.43	2011-09-30	0
3	14.97	1975-09-30	0
4	12.09	2018-07-31	0
5	11.40	2021-09-30	2
6	11.04	2013-10-31	0
7	10.67	1933-08-31	0
8	10.50	2004-09-30	0
9	10.29	1915-08-31	0
10	9.87	1976-10-31	0

Period of record: 1888-07-01 to 2021-09-28



September Temperatures



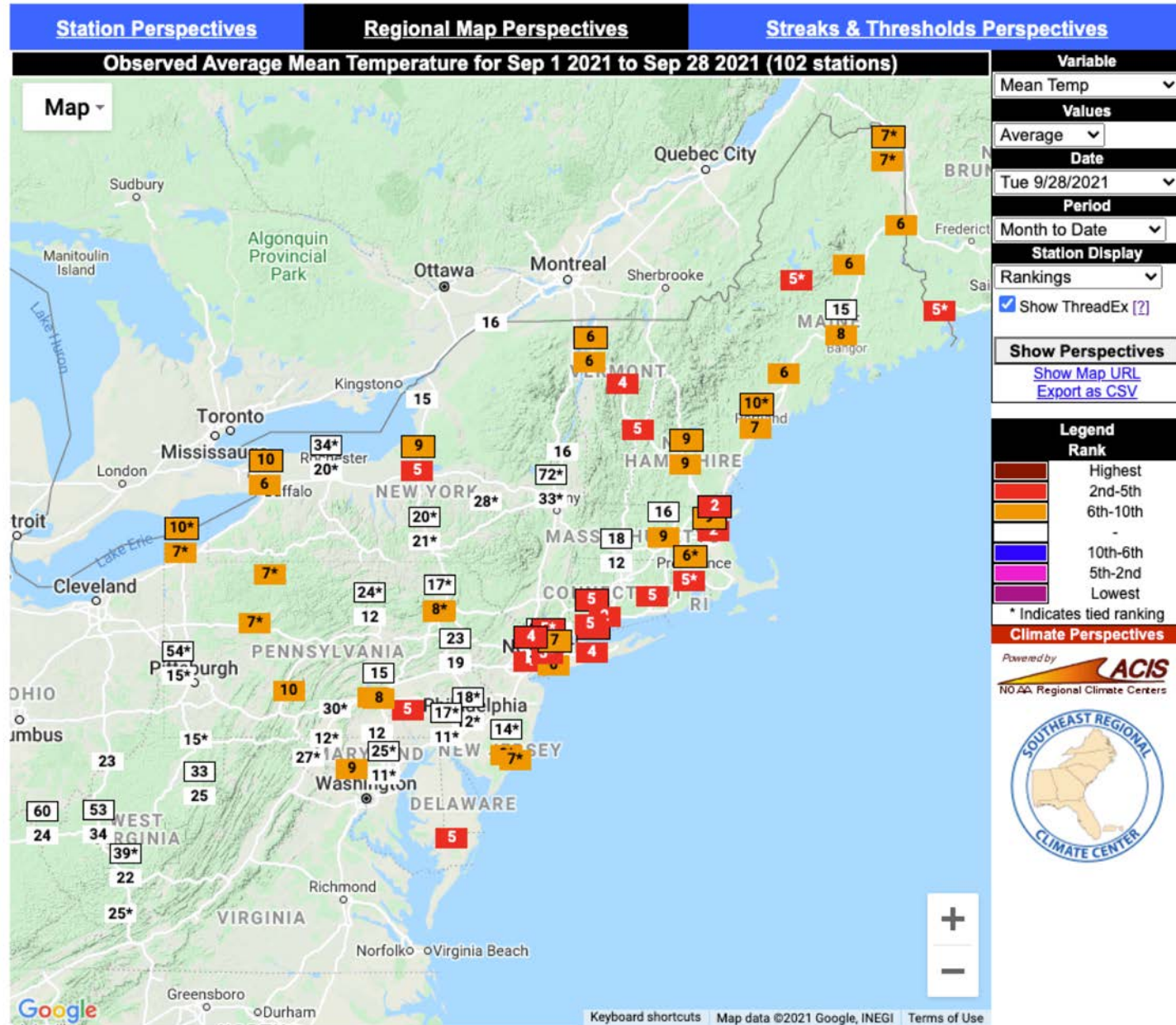
From 2°F below normal to 4°F above normal



September Temperatures

Southeast RCC Climate Perspectives

Expand



Created by and hosted at the [Southeast Regional Climate Center](#).

Drought Monitor

U.S. Drought Monitor Northeast Climate Region

August 31, 2021
(Released Thursday, Sep. 2, 2021)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	77.08	10.79	10.60	1.54	0.00	0.00
Last Week 08-24-2021	77.36	12.05	9.05	1.54	0.00	0.00
3 Months Ago 06-01-2021	59.73	37.44	2.83	0.00	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 09-29-2020	29.84	24.85	19.05	22.37	3.89	0.00
One Year Ago 09-01-2020	46.06	26.00	18.72	9.23	0.00	0.00

Intensity:

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

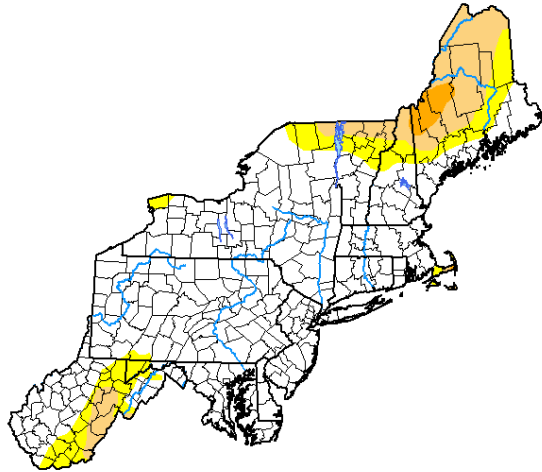
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

David Simeral
Western Regional Climate Center



droughtmonitor.unl.edu



U.S. Drought Monitor Northeast Climate Region

September 28, 2021
(Released Thursday, Sep. 30, 2021)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0	D1	D2	D3	D4
Current	90.30	6.56	2.35	0.80	0.00	0.00
Last Week 09-21-2021	86.21	7.97	5.03	0.80	0.00	0.00
3 Months Ago 06-29-2021	58.59	21.37	16.53	3.51	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 09-29-2020	29.84	24.85	19.05	22.37	3.89	0.00
One Year Ago 09-29-2020	29.84	24.85	19.05	22.37	3.89	0.00

Intensity:

- None
- D0 Abnormally Dry
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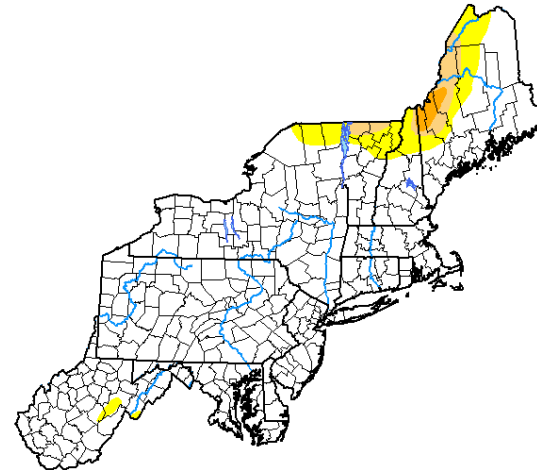
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Author:

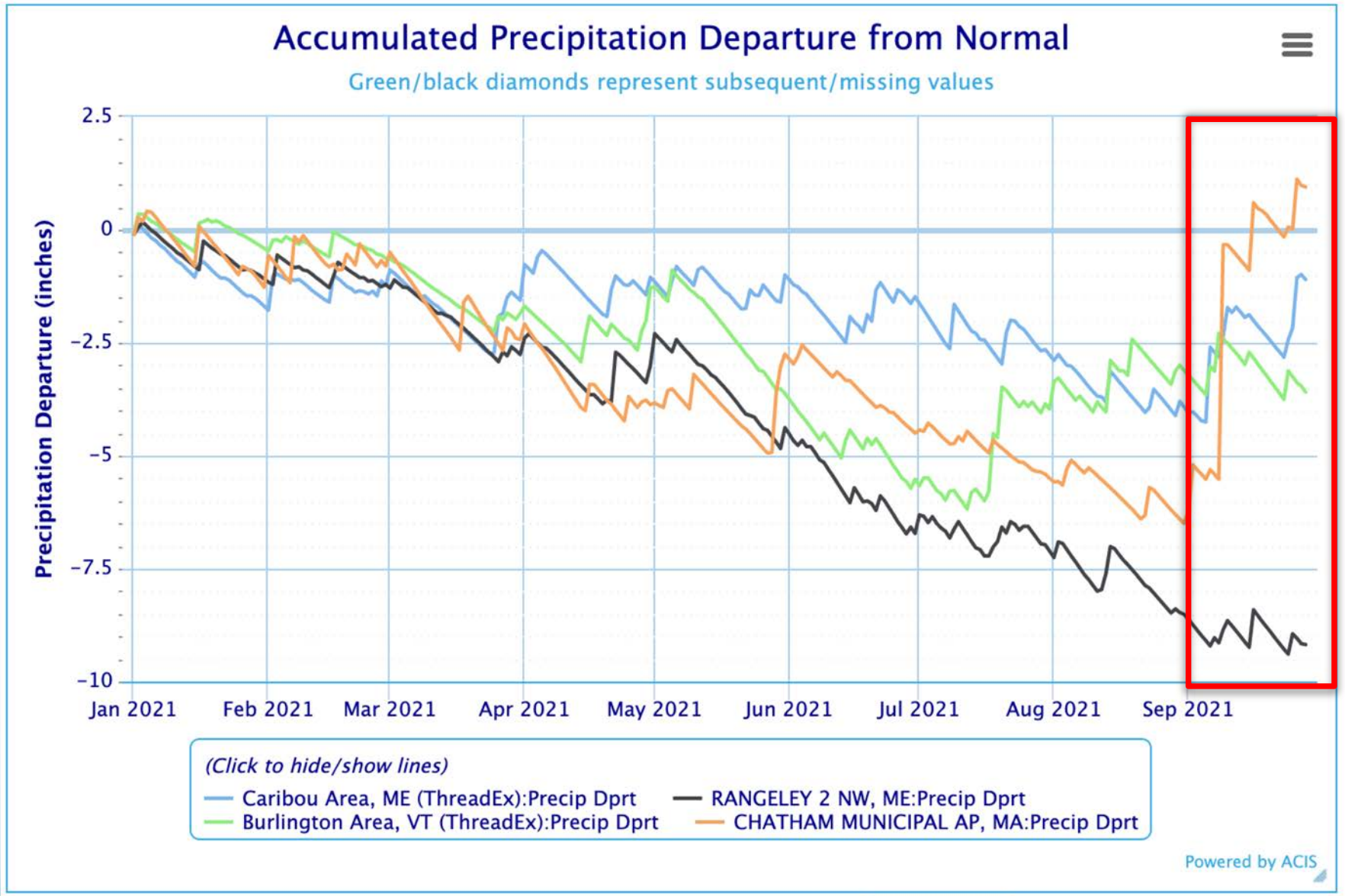
Brian Fuchs
National Drought Mitigation Center



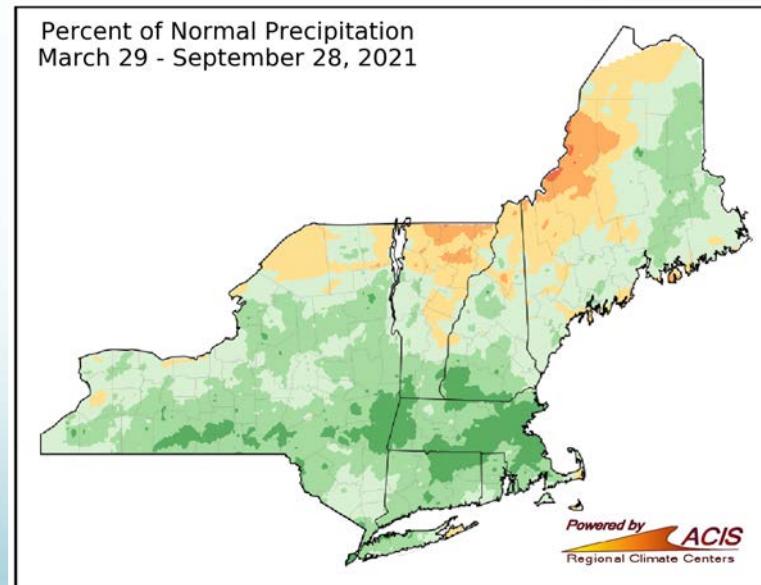
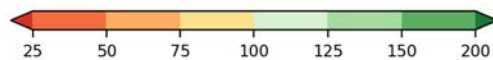
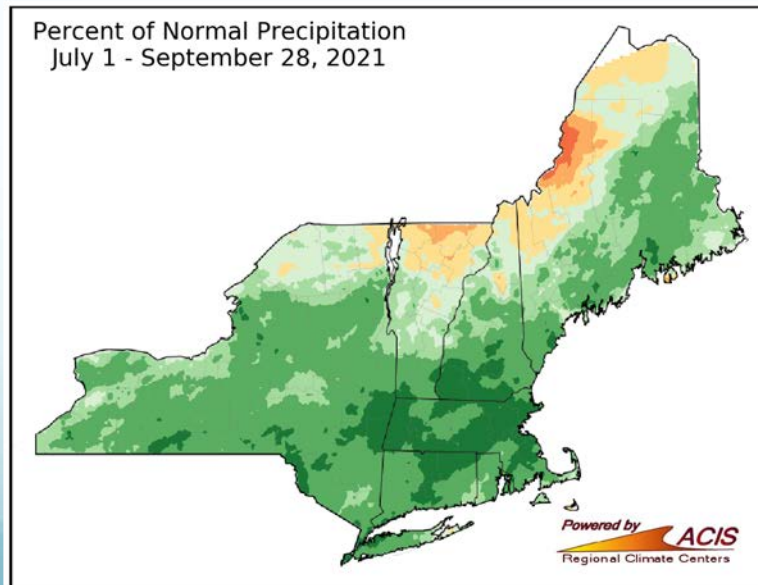
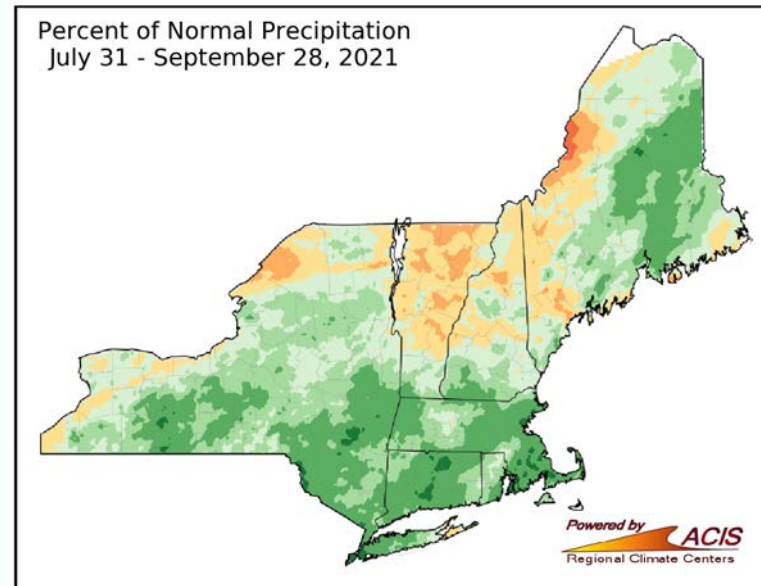
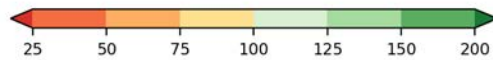
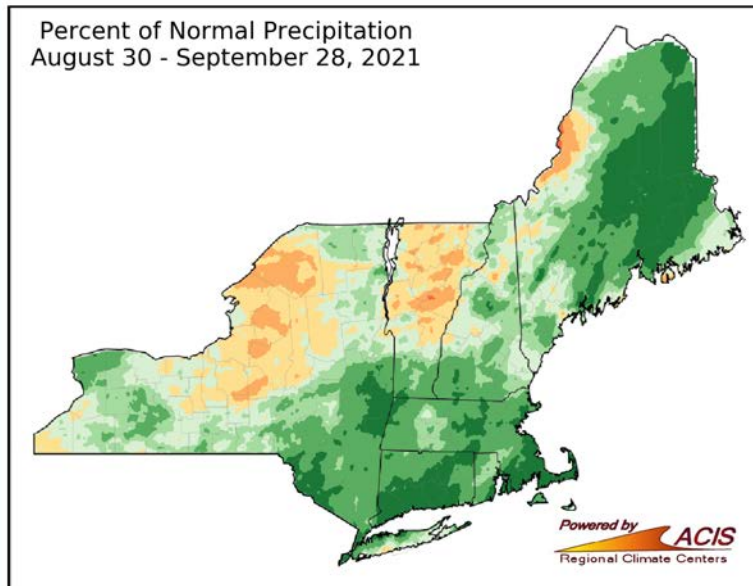
droughtmonitor.unl.edu



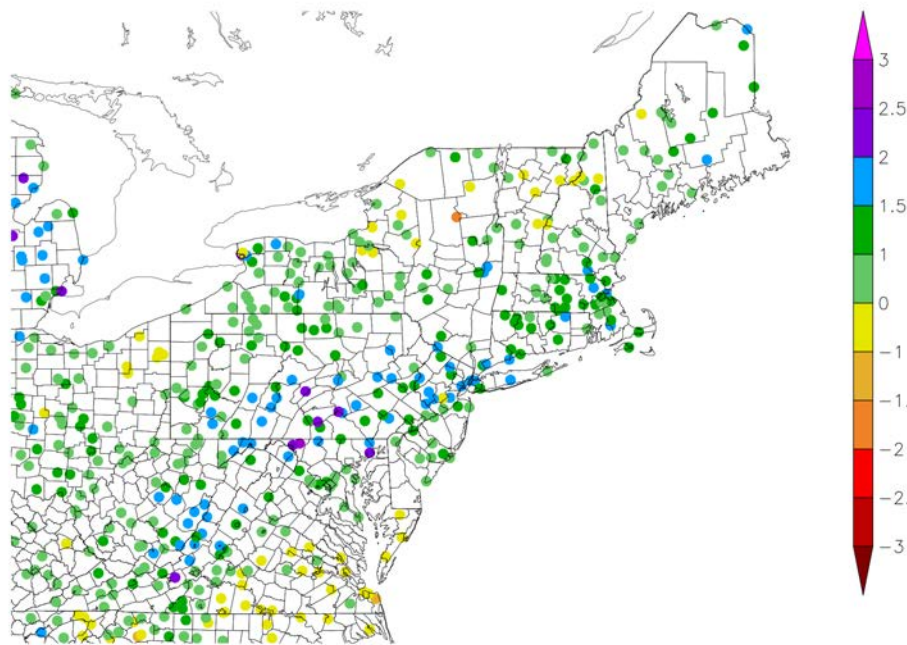
Precipitation



Precipitation



30 Day SPI
8/27/2021 - 9/25/2021

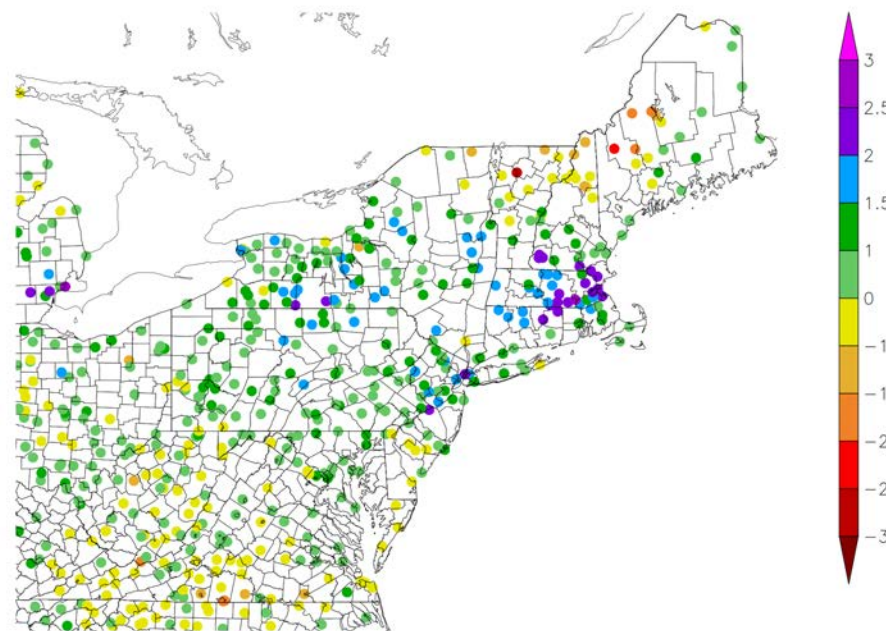


Generated 9/26/2021 at HPRCC using provisional data.

NOAA Regional Climate Center

Standardized Precipitation Index

6 Month SPI
3/28/2021 - 9/27/2021



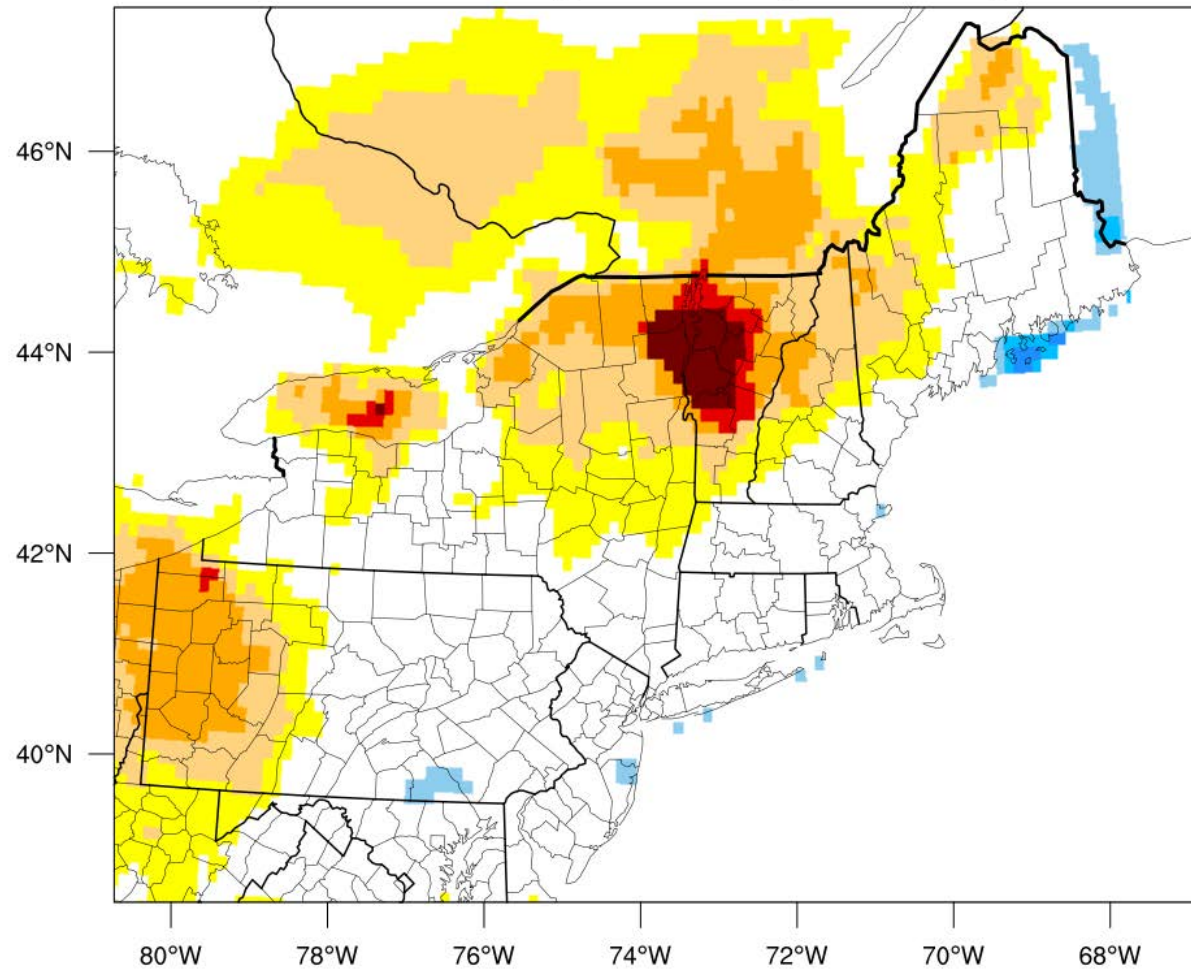
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NOAA Regional Climate Center



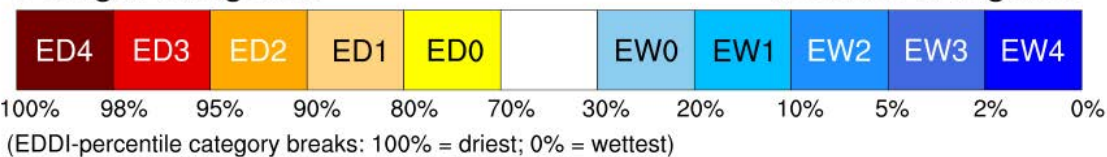
Evap. Demand Drought Index

3-week EDDI categories for September 24, 2021



Drought categories

Wetness categories

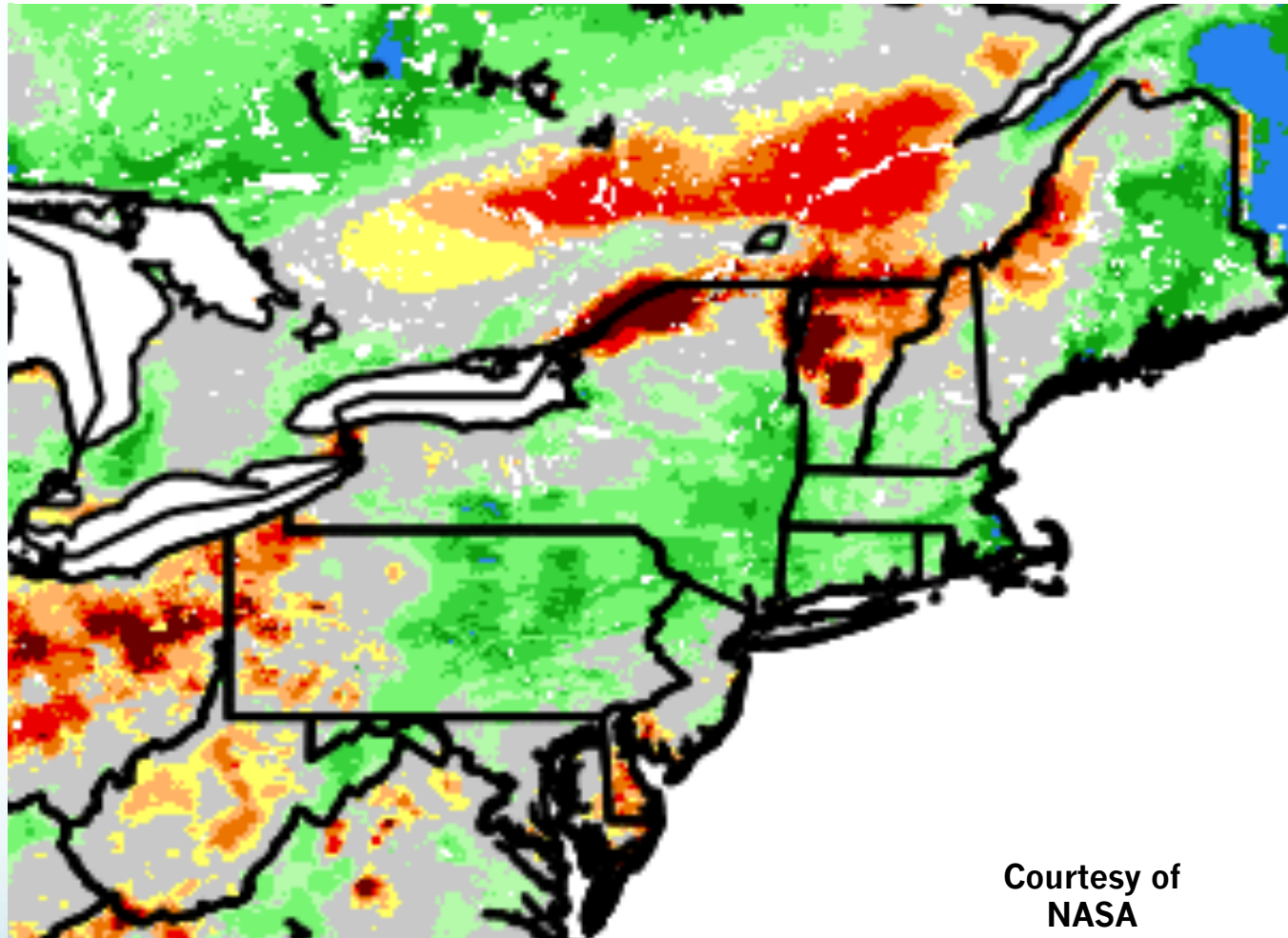


Generated by NOAA/ESRL/Physical Sciences Laboratory



Soil Moisture

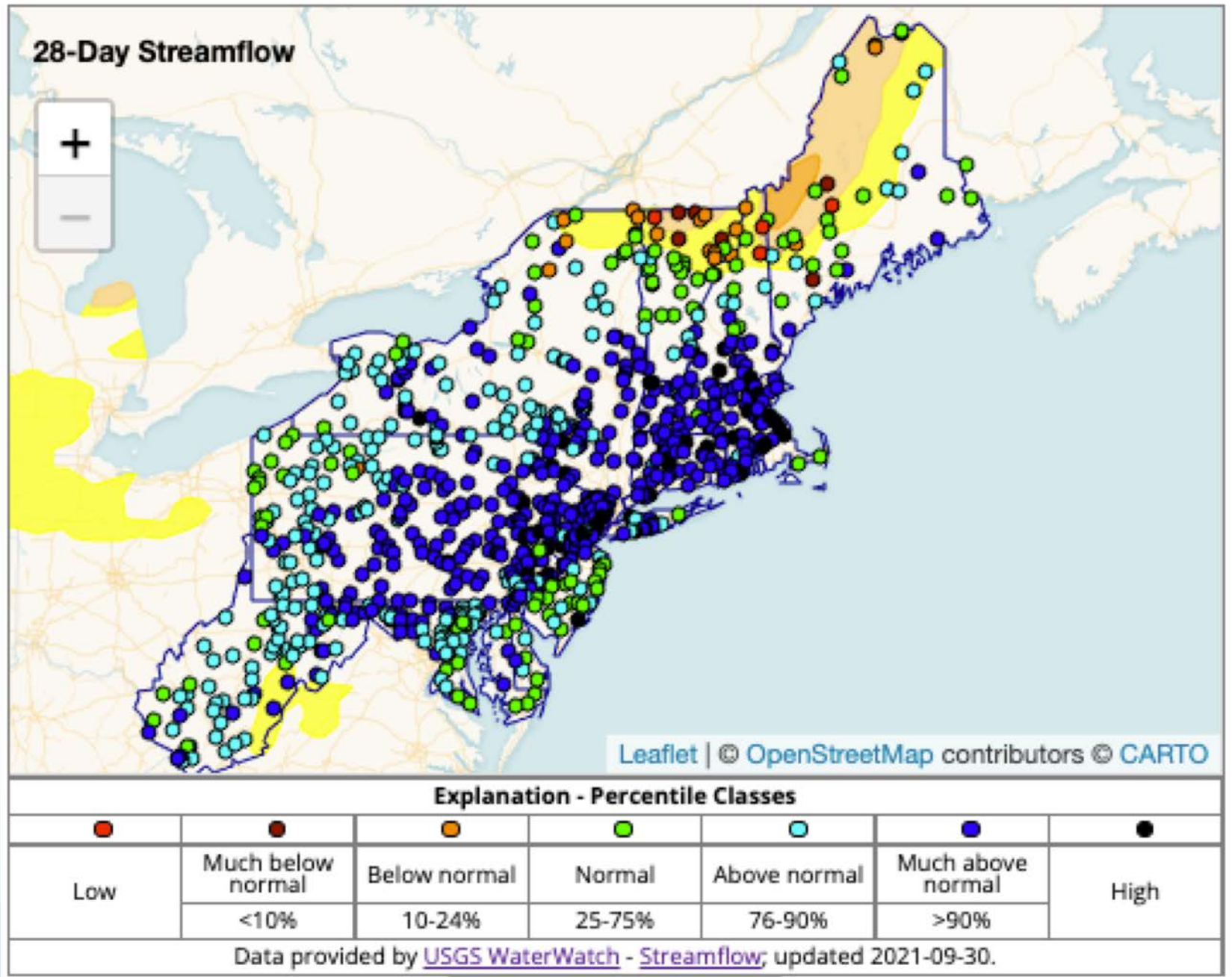
SPoRT-LIS 0-100 cm Soil Moisture percentile valid 29 Sep 2021



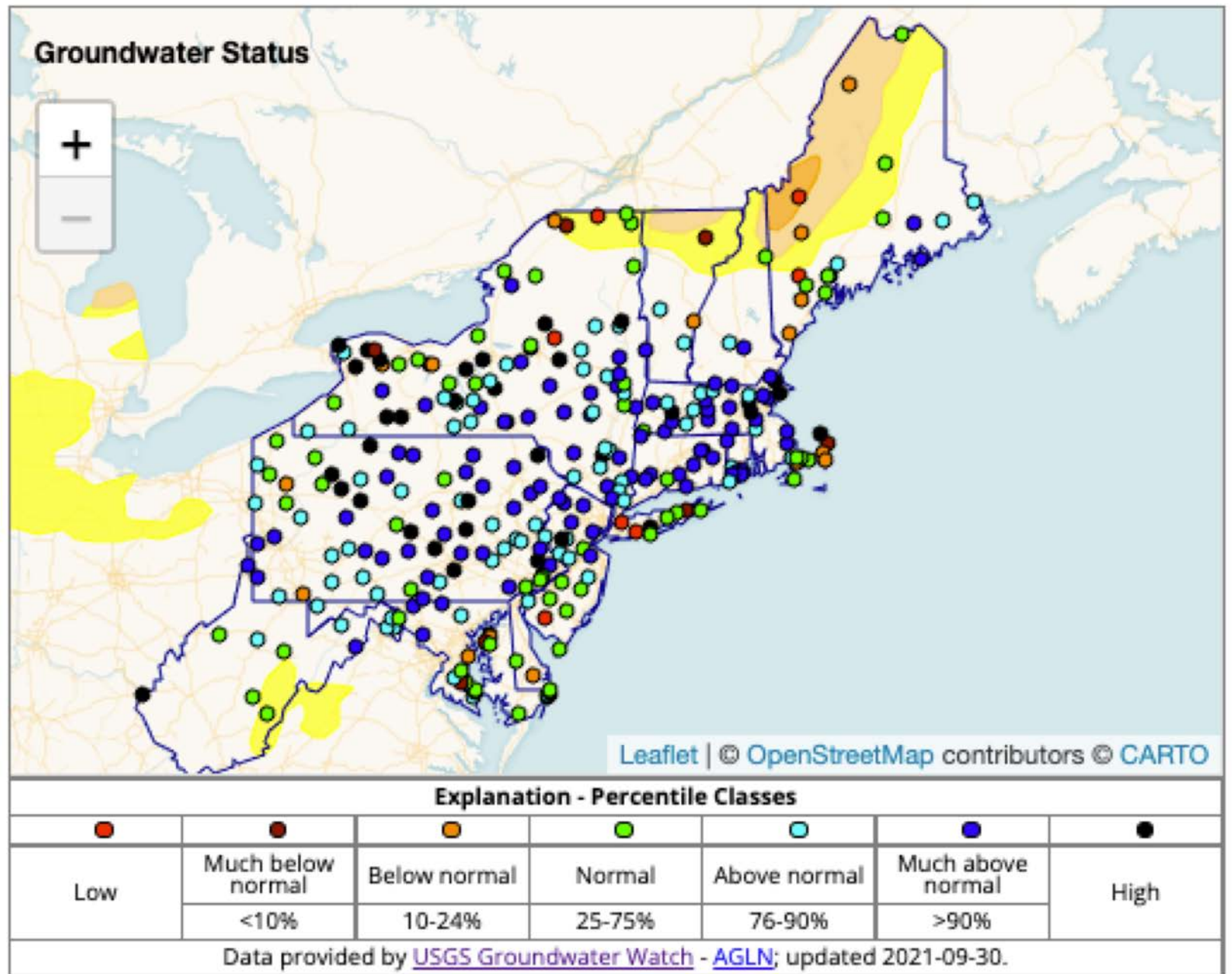
****NOTE****
****Experimental****



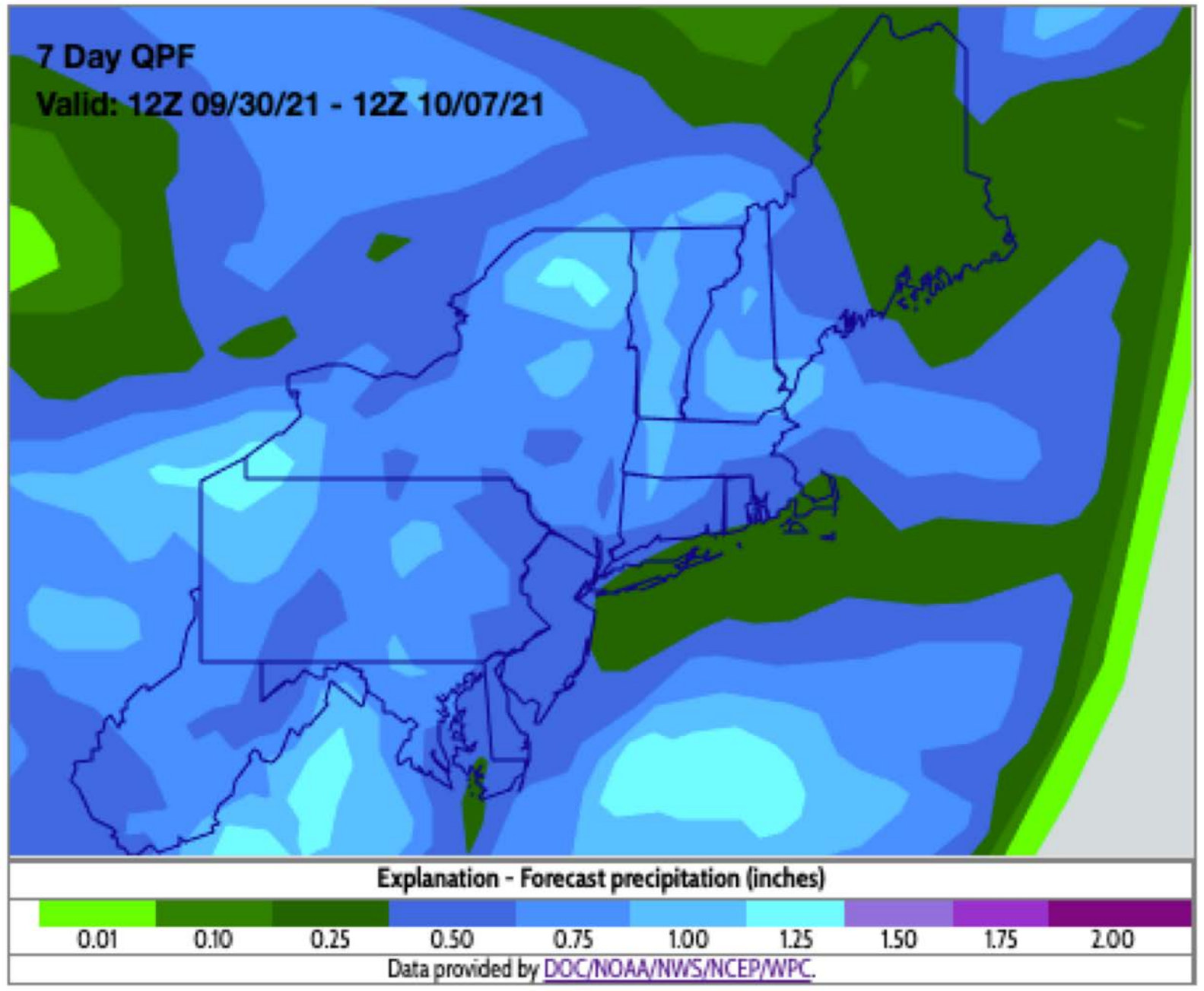
Streamflow



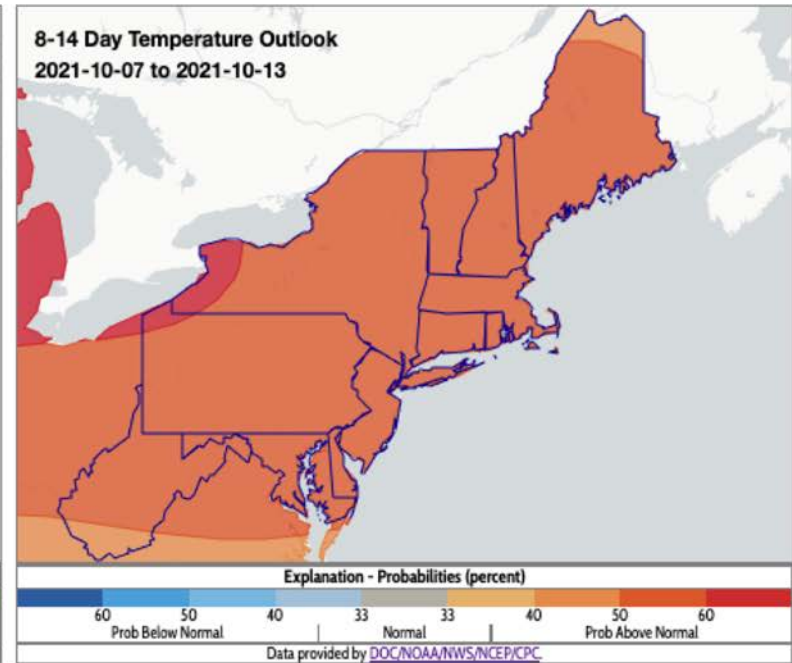
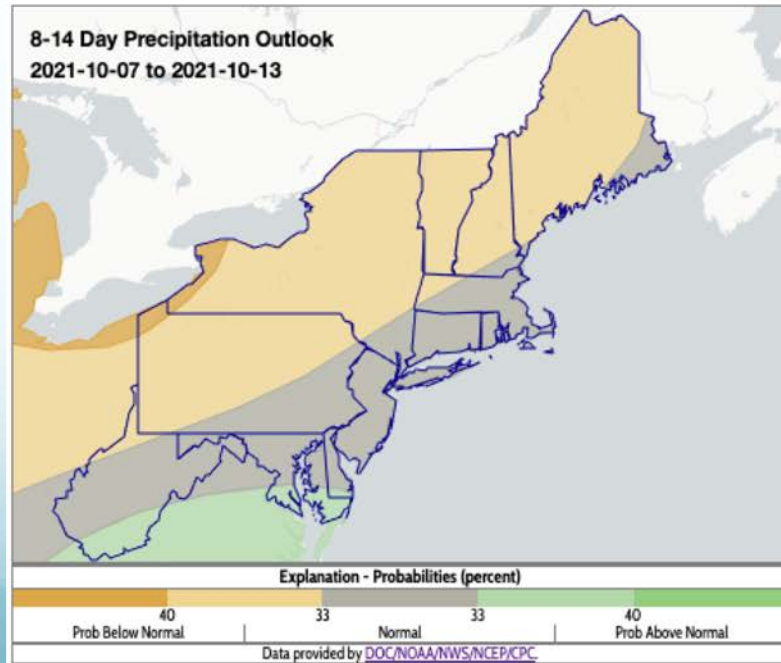
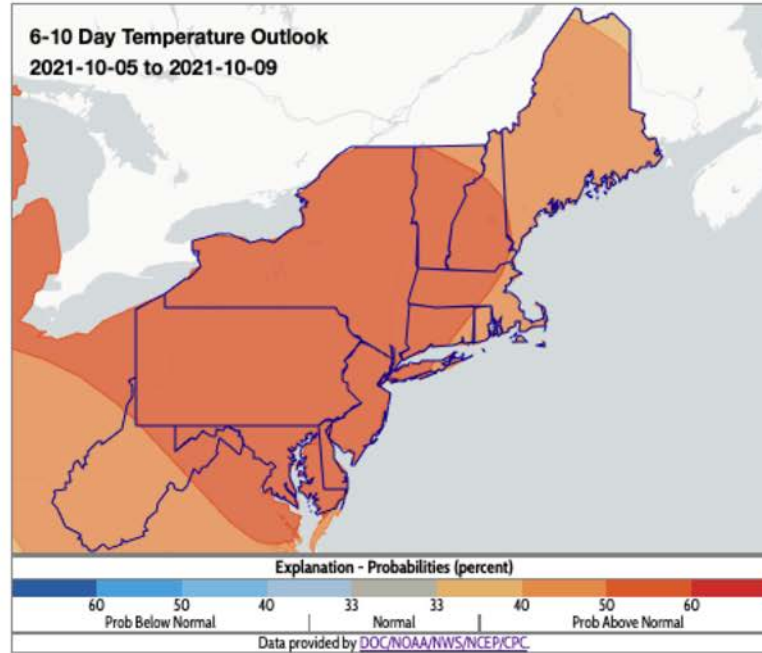
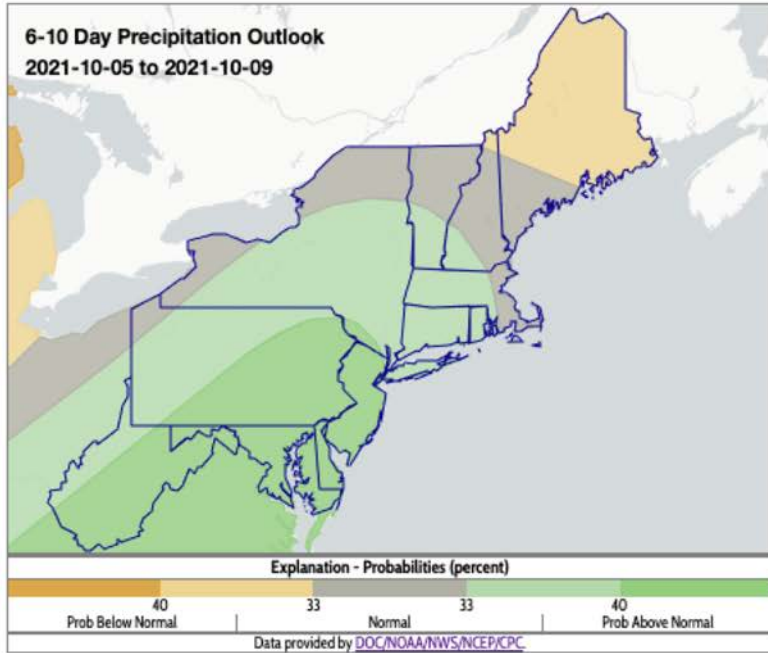
Groundwater



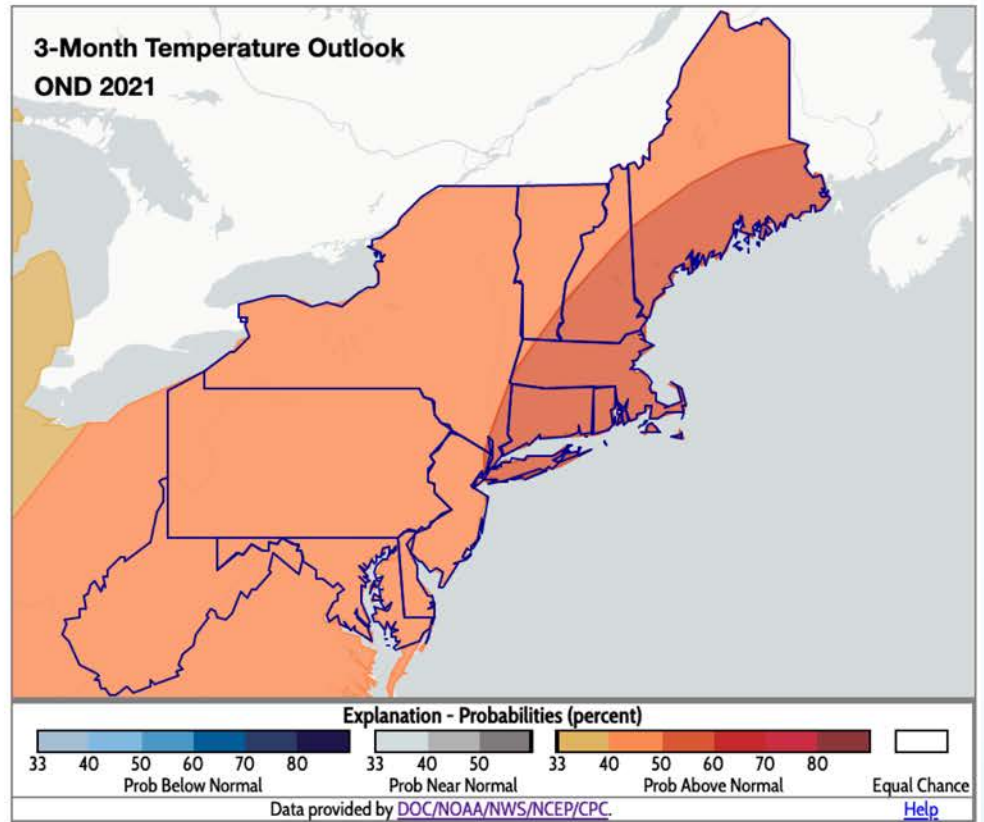
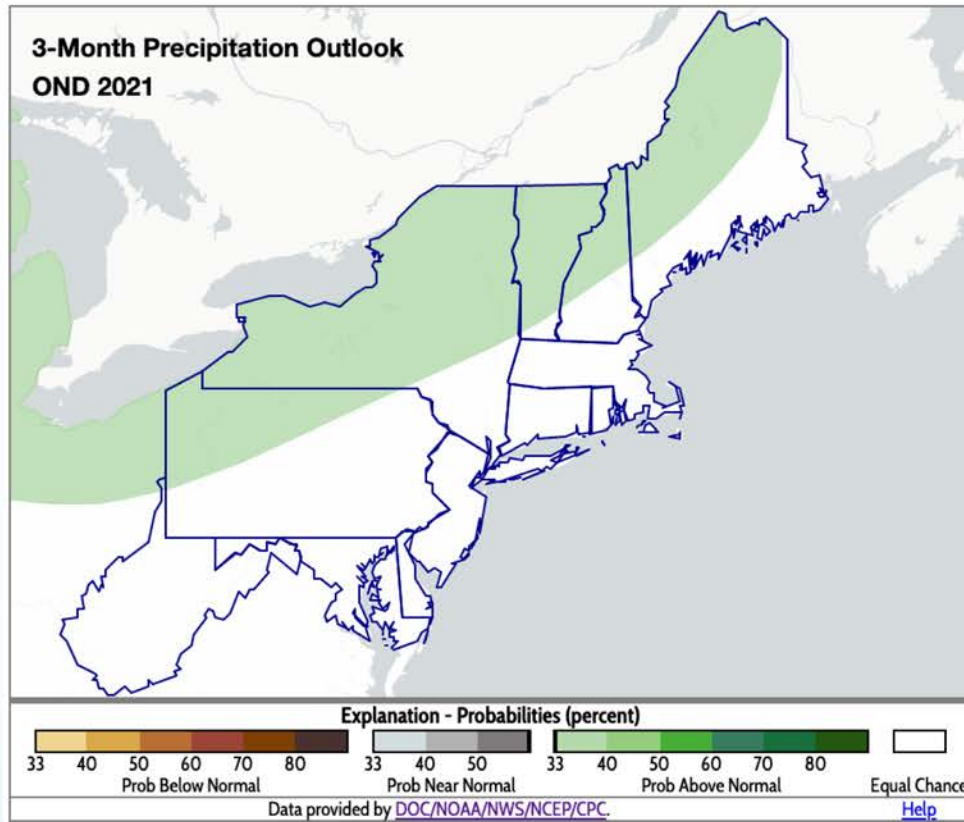
Precipitation Forecast



Short-term Outlooks



Three-Month Outlook



Contact Information

- nrcc@cornell.edu

Upcoming Webinars

- Thursday, October 28 at 9:30am
 - Chesapeake Bay watershed IDF curve project
- Tuesday, November 30 at 9:30am
 - ENSO and winter outlooks
- Thursday, December 16 at 9:30am
 - NOAA National Water Model
- Thursday, January 27 at 9:30am
 - Snow survey and climatologies



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