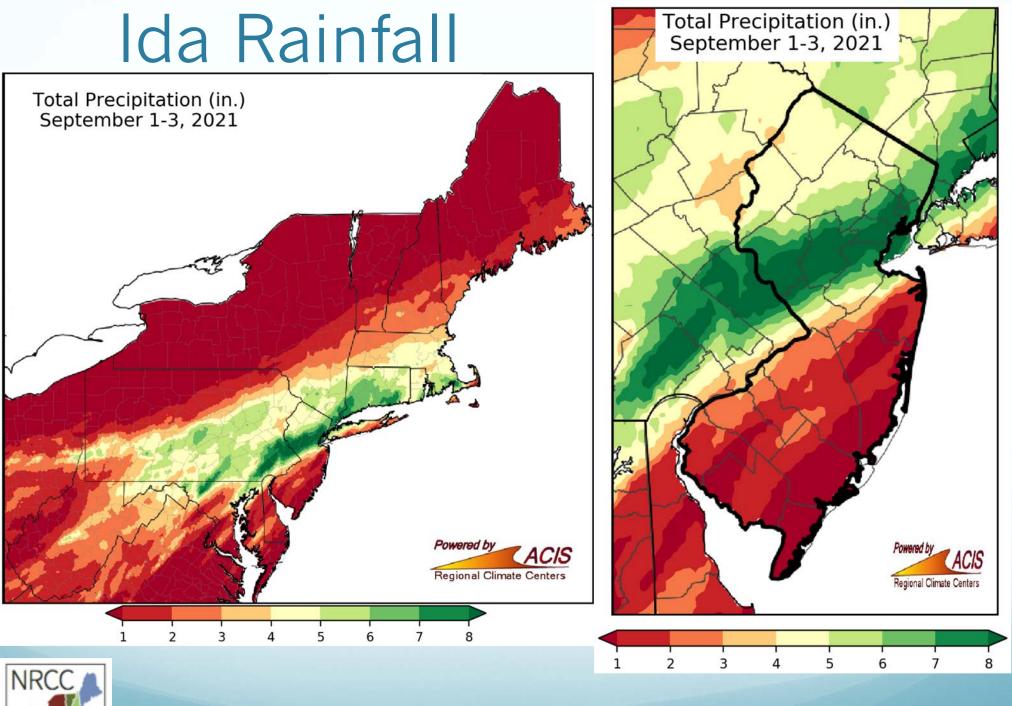
### September Review & Northeast DEWS Discussion

By: Samantha Borisoff, Climatologist Northeast Regional Climate Center











### Ida Rainfall

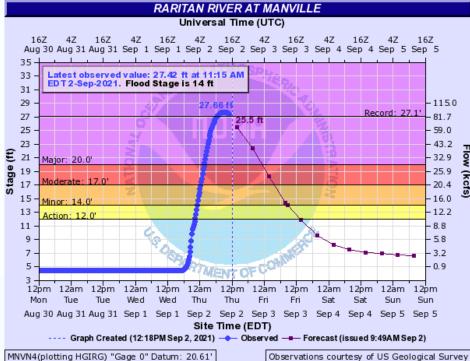
Station	Sep. 1 Rainfall	Wettest Sep. Day Rank	All-time Wettest Day Rank	Wettest Sep. (month) Rank	
Newark, NJ	8.41	1	1	4	
Central Park, NY	7.13	2	5	18	
LaGuardia Airport, NY	6.80	1	1	9	
Harrisburg, PA	6.64	2	3	13	
Bridgeport, CT	5.77	1	3	13	
Scranton, PA	5.09	2	2		
Allentown, PA	4.15	6			
Baltimore,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

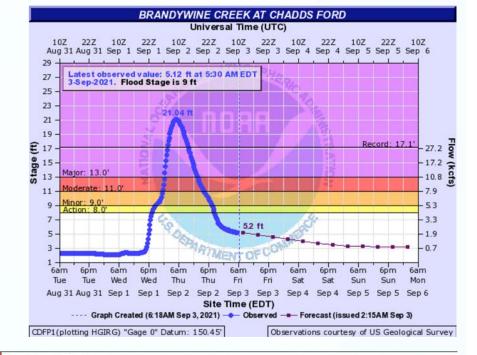


Station	1-hour Return Period	2-hour Return Period	6-hour Return Period	Daily Return Period
Central Park, NY	100+	500+	200+	25-50
LaGuardia Airport, NY	10+		100+	25-50
Newark, NJ	200+	500+	500+	100+
Westchester Co. Airport, NY	25-50	200+	100+	10-25

## Ida Flooding



MNVN4(plotting HGIRG) "Gage 0" Datum: 20.61'



### 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

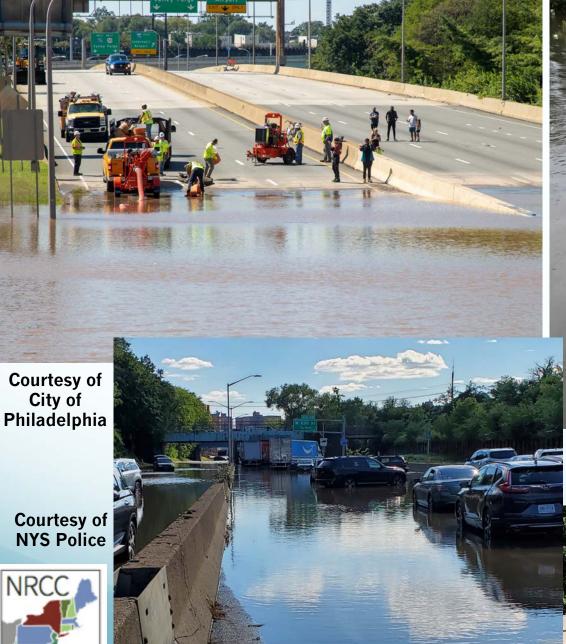
2) the amount of vegetation flattened by the flowing water.





weather.gov/MARFC Facebook/Twitter: @NWSMARFC

## Ida Flooding





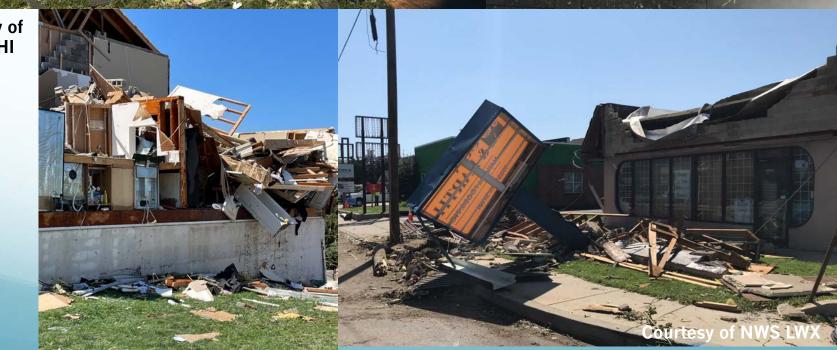
### Courtesy of USGS



# Ida Tornadoes

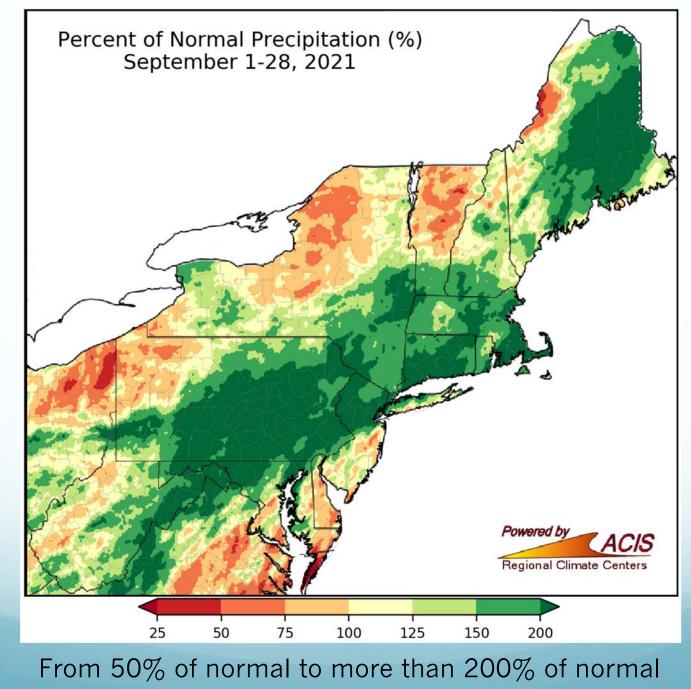
Courtesy of NWS PHI







## **September Precipitation**





## 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

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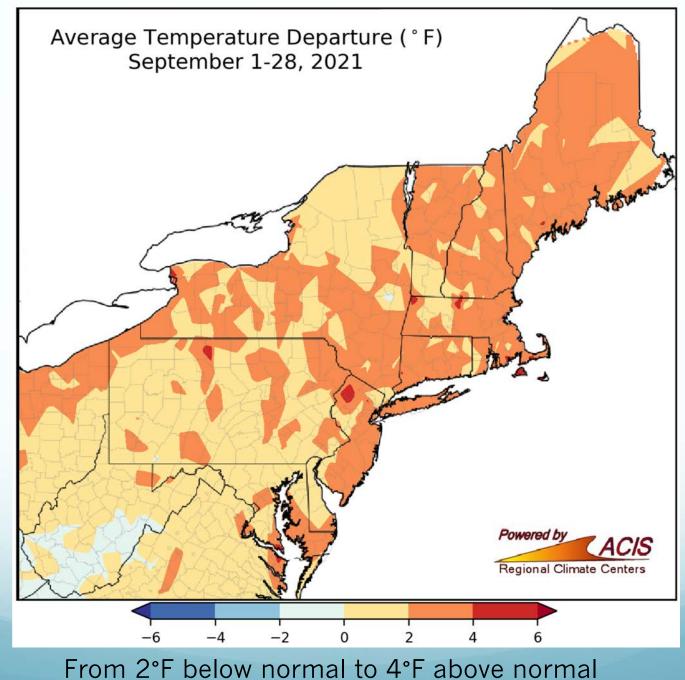
1	Sep Rank
Location	(wettest)*
Newark, NJ	1
Bridgeport, CT	2
Scranton, PA	2
Harrisburg, PA	3
LaGuardia Airport, NY	4
Central Park, NY	6
Boston, MA	7
Caribou, ME	7
Washington, DC	7
Allentown, PA	8
Islip, NY	9
Worcester, MA	10
Dulles Airport, VA	16
Kennedy Airport, NY	16
Binghamton, NY	17
Elkins, WV	17
Hartford, CT	17
Buffalo, NY	19
*data thr	ough Sep. 28

	in neading it	o sort ascending, click	again to sort descer
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

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

## September Temperatures

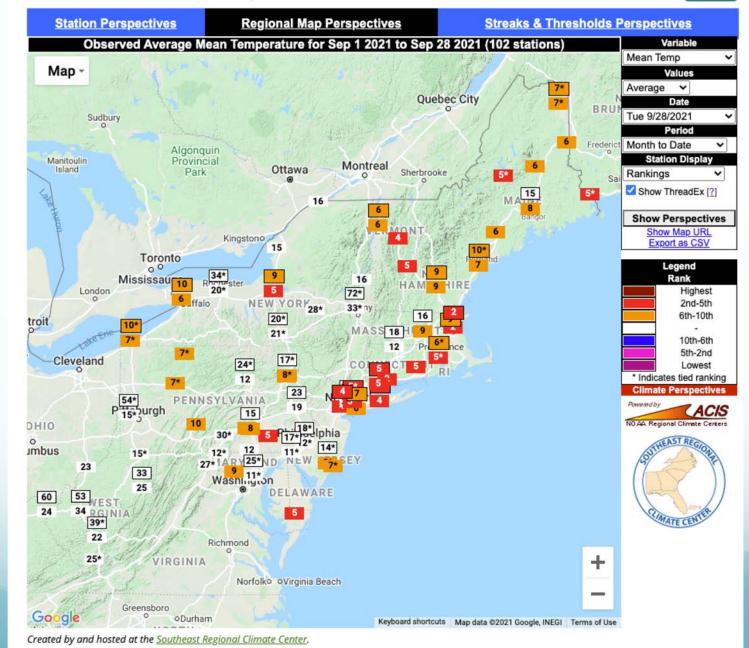




### September Temperatures

### **Southeast RCC Climate Perspectives**

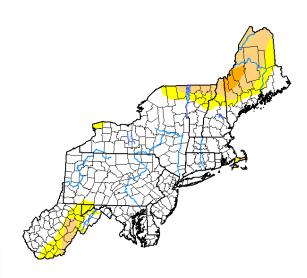
Expand





## **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 Month s 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:



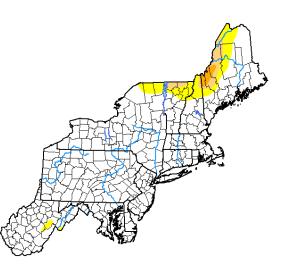
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

<u>Author:</u> 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 Month s 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
 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

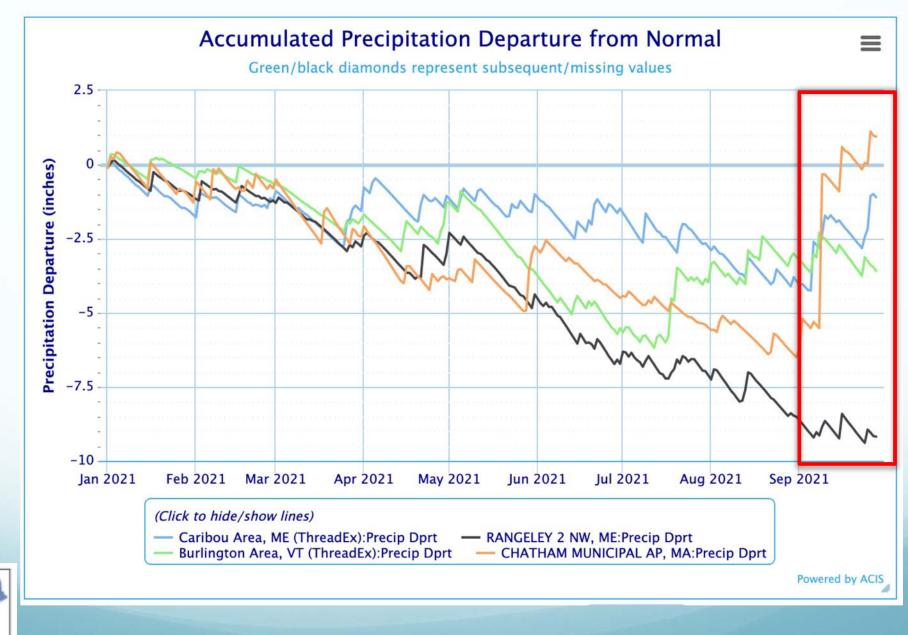
<u>Author:</u> Brian Fuchs National Drought Mitigation Center



droughtmonitor.unl.edu

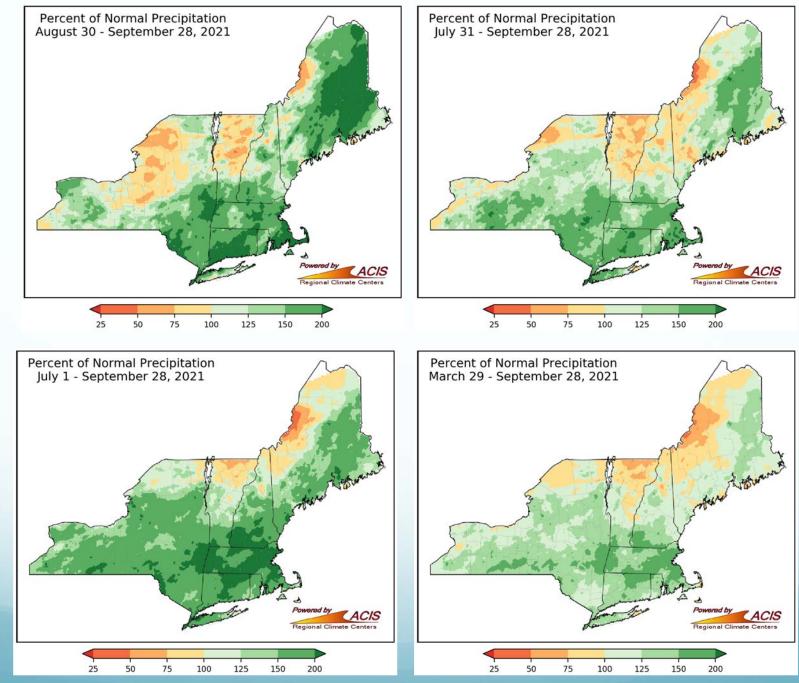


## Precipitation

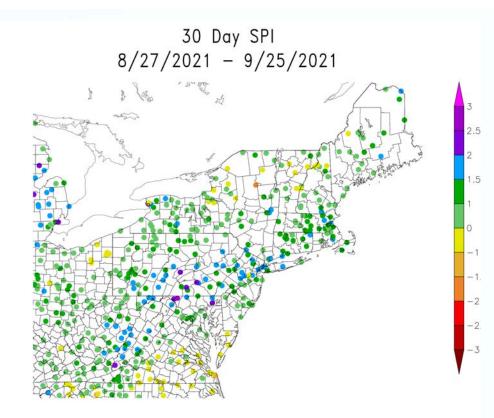


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## Precipitation





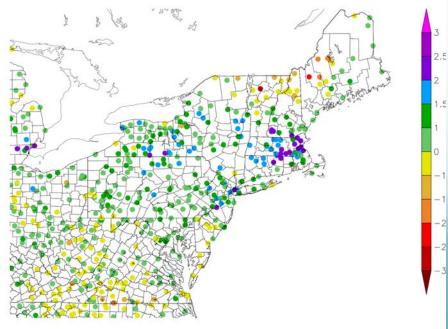


nerated 9/26/2021 at HPRCC using provisional data.

NOAA Regional Climate Cente

# Standardized Precipitation Index

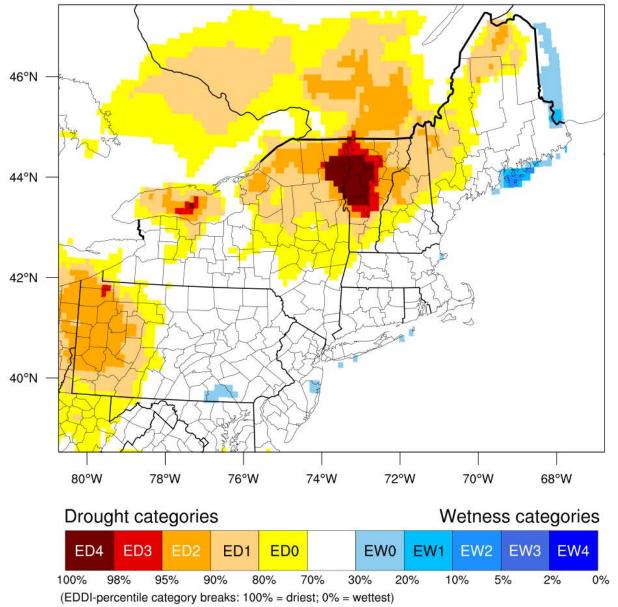
6 Month SPI 3/28/2021 - 9/27/2021





## Evap. Demand Drought Index

3-week EDDI categories for September 24, 2021

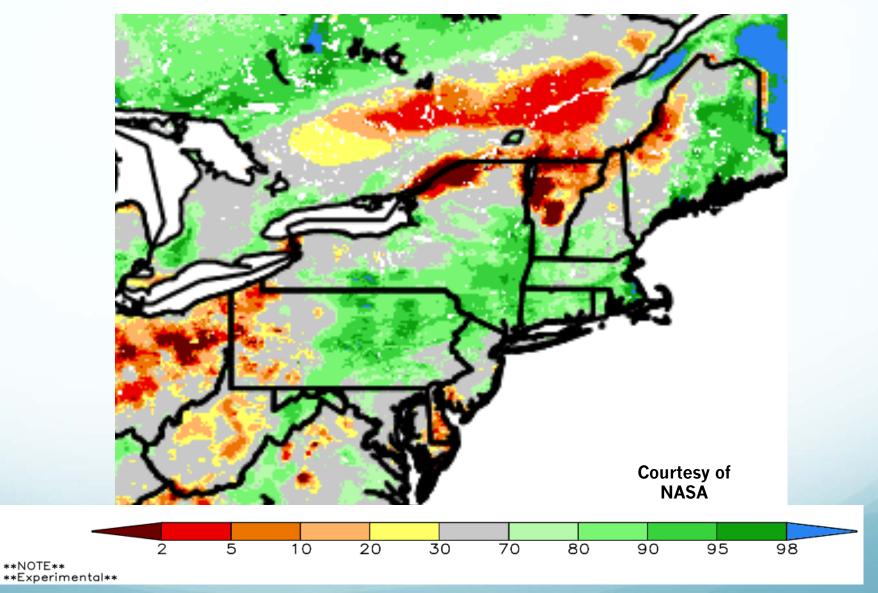




Generated by NOAA/ESRL/Physical Sciences Laboratory

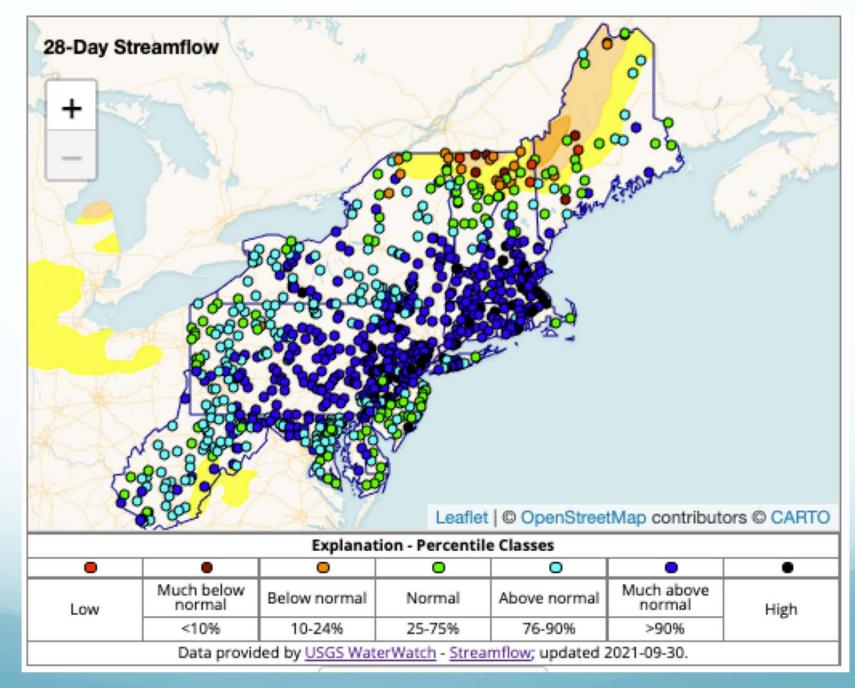
### Soil Moisture

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



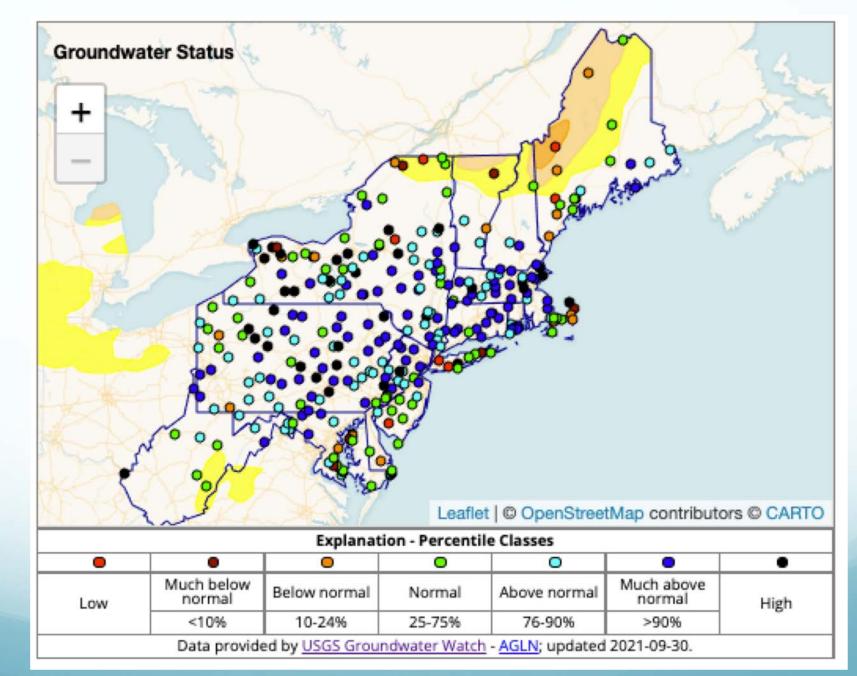


### Streamflow



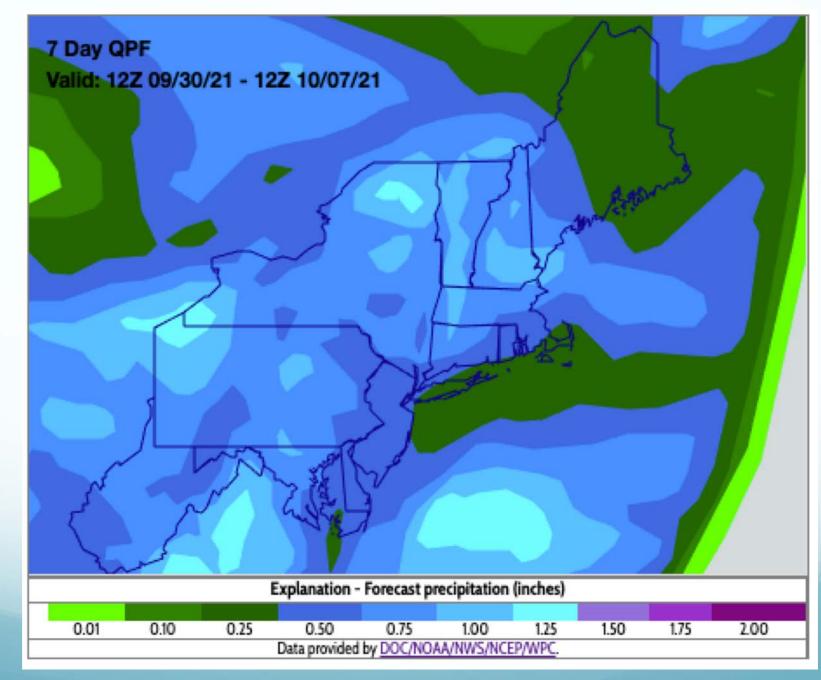
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### Groundwater



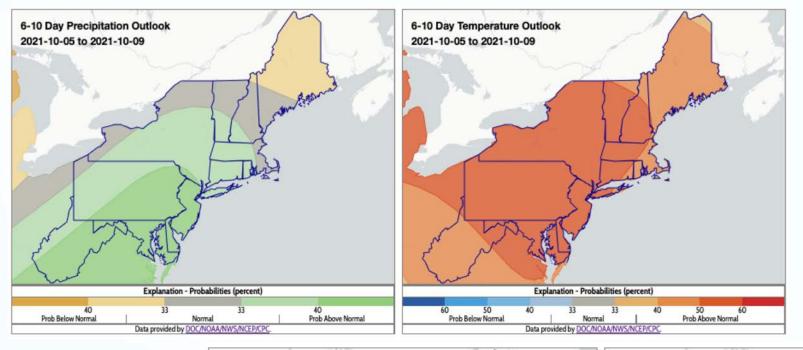


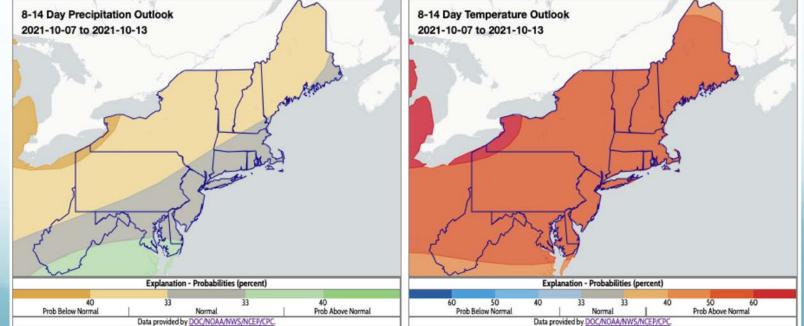
### **Precipitation Forecast**





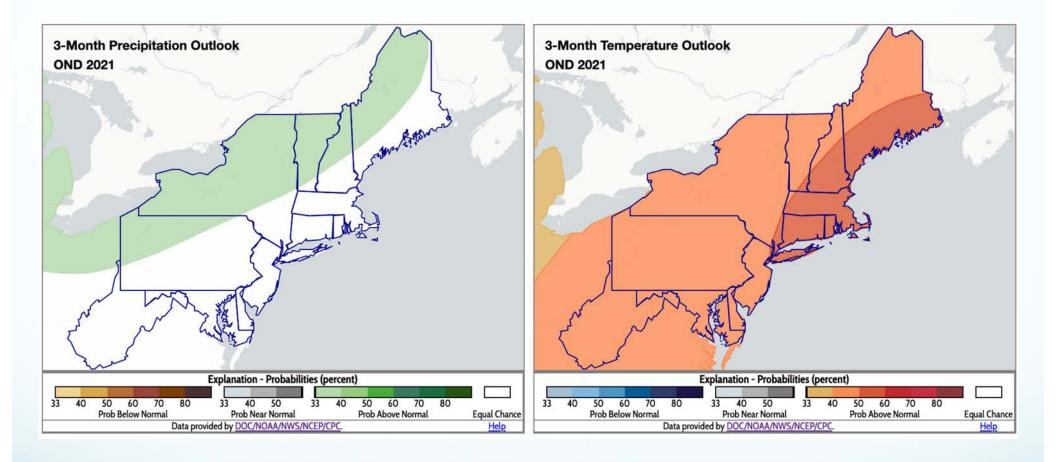
### Short-term Outlooks







### 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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