

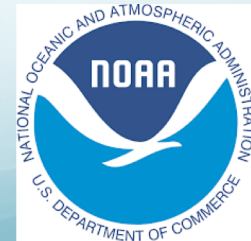
August Recap

Northeast DEWS Discussion

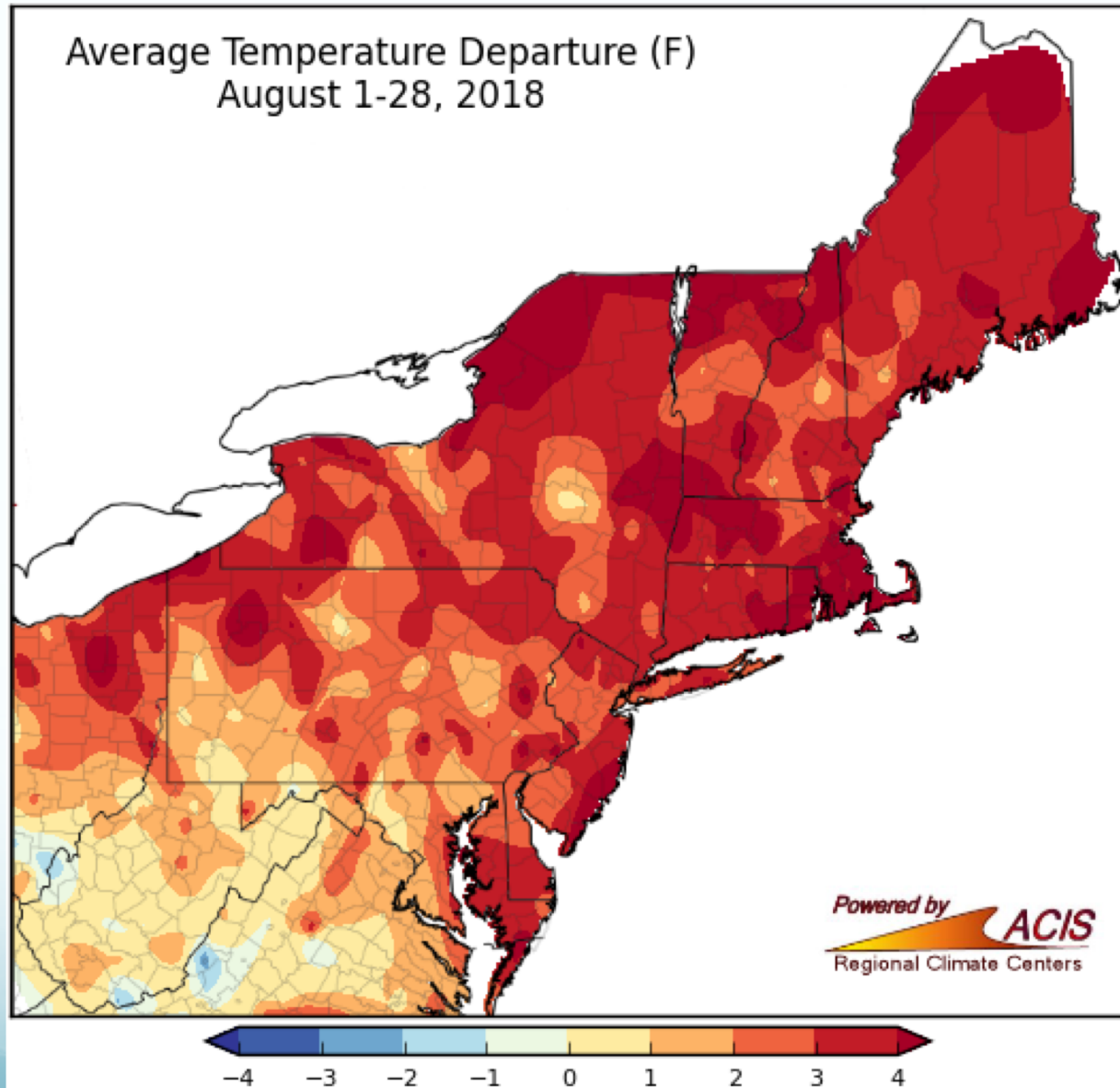
By: Jessica Spaccio, Climatologist
Of the Northeast Regional Climate Center



Northeast Regional
Climate Center

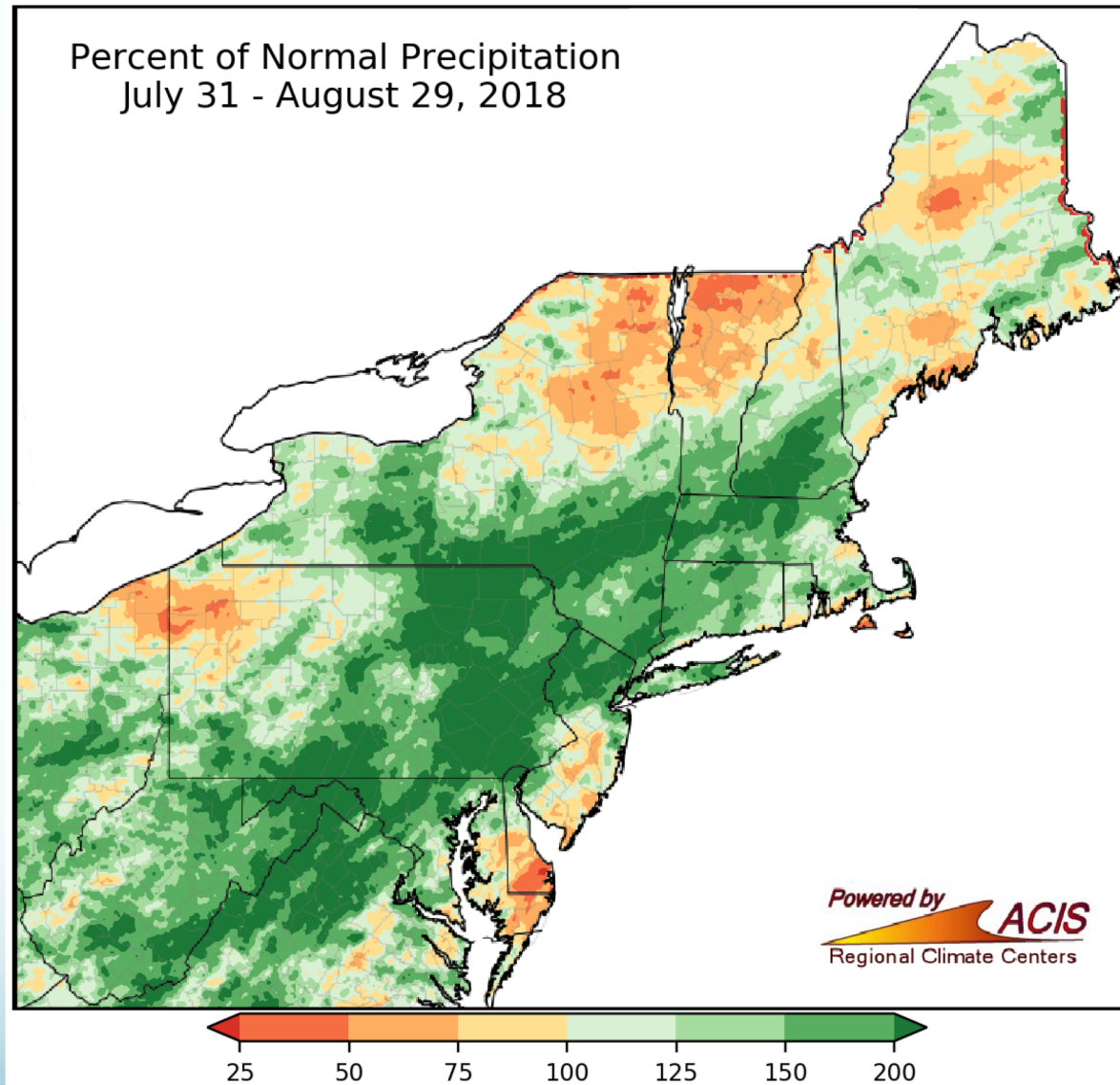


August Temperatures



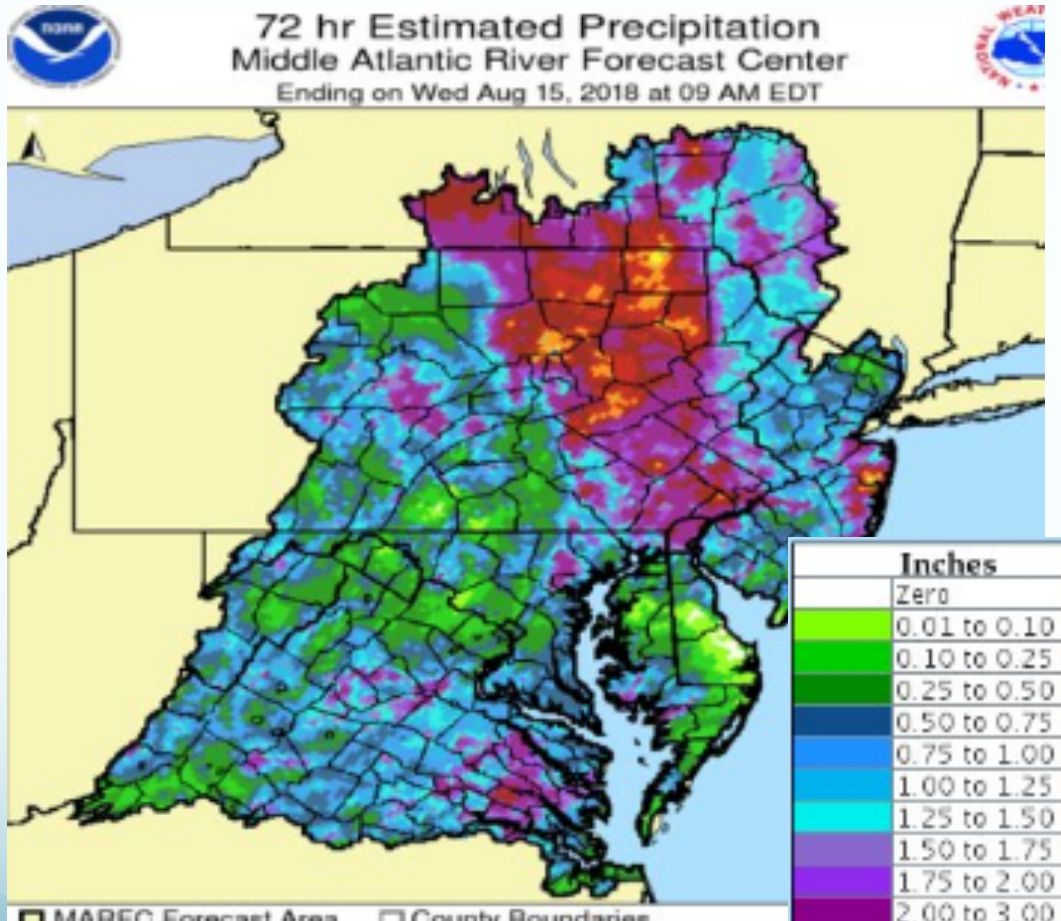
From near normal to over 4°F above normal.

August Precipitation



From less than 50% of normal to over 200% of normal.

Flooding in the Northeast



Flooded streets near Darby, PA.

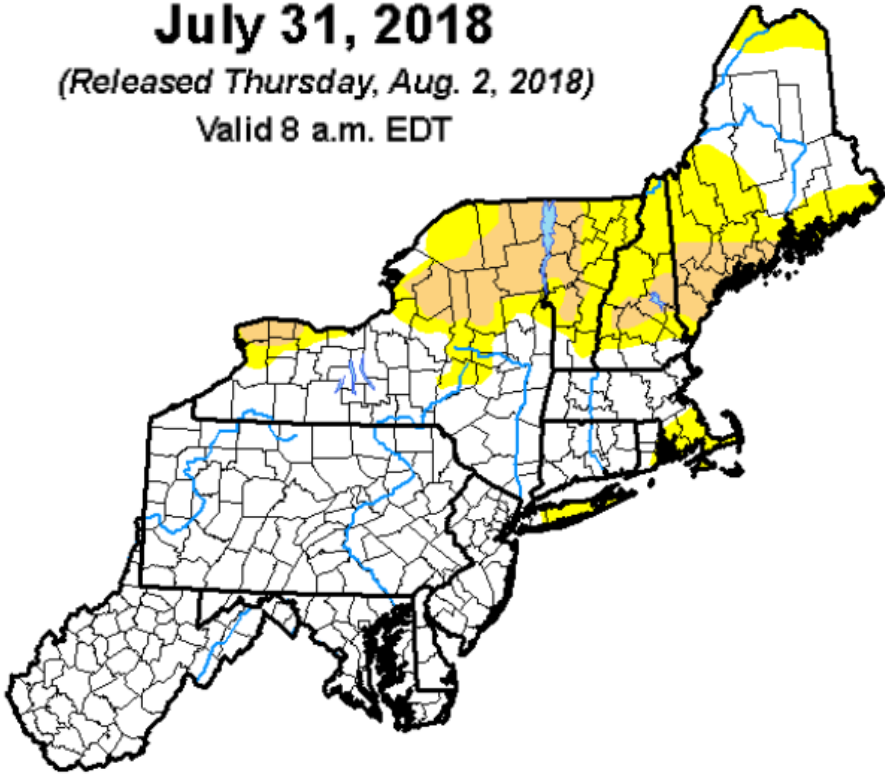
Estimated rainfall during three days of heavy precipitation.

Drought Monitor

July 31, 2018

(Released Thursday, Aug. 2, 2018)

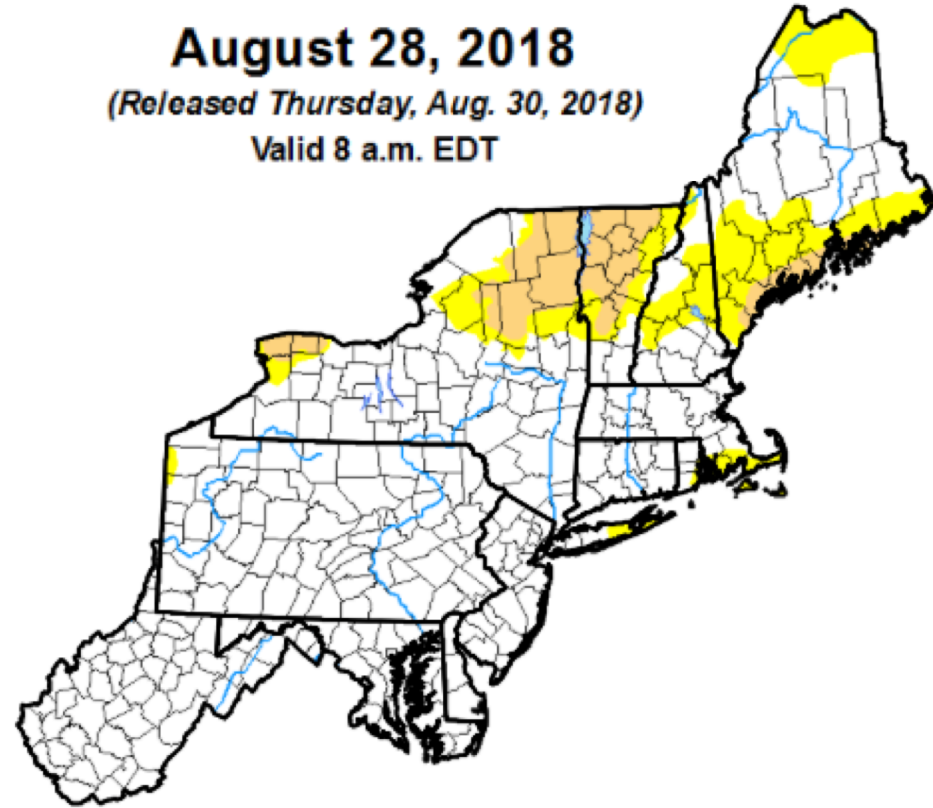
Valid 8 a.m. EDT



August 28, 2018



(Released Thursday, Aug. 30, 2018)

Valid 8 a.m. EDT



At the beginning of August, 18% of the region was abnormally dry and 9% was experiencing moderate drought.

Intensity:

-  D0 Abnormally Dry
-  D1 Moderate Drought

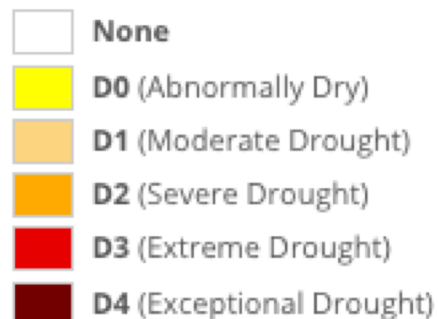
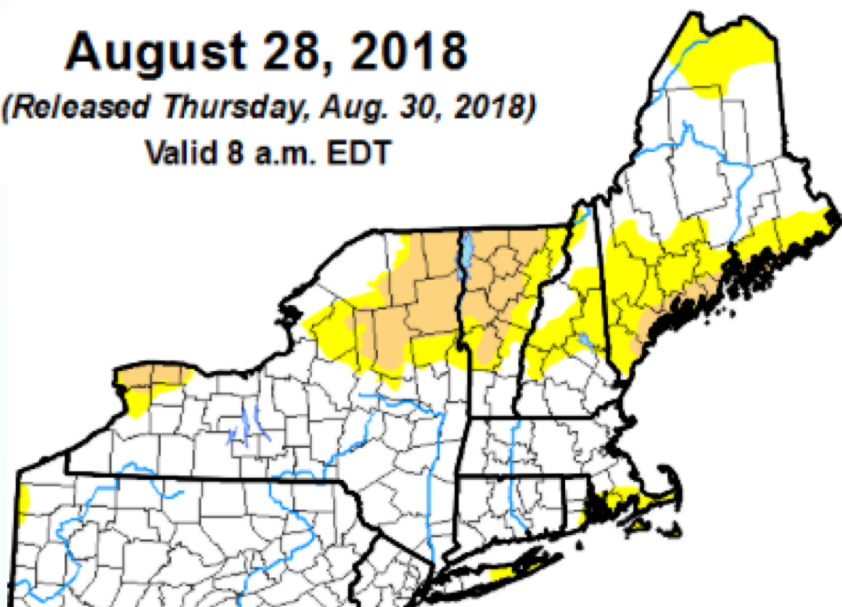
By the end of the month, 13% was abnormally dry and 7% was in moderate drought.

United States Drought Monitor

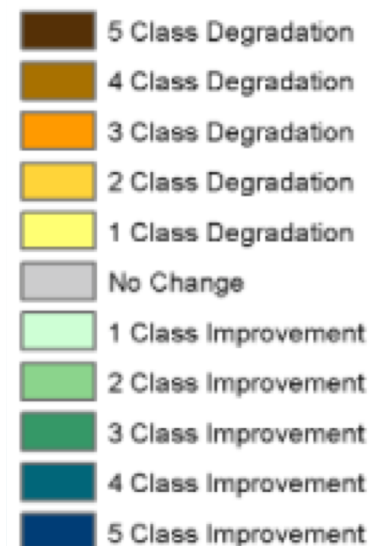
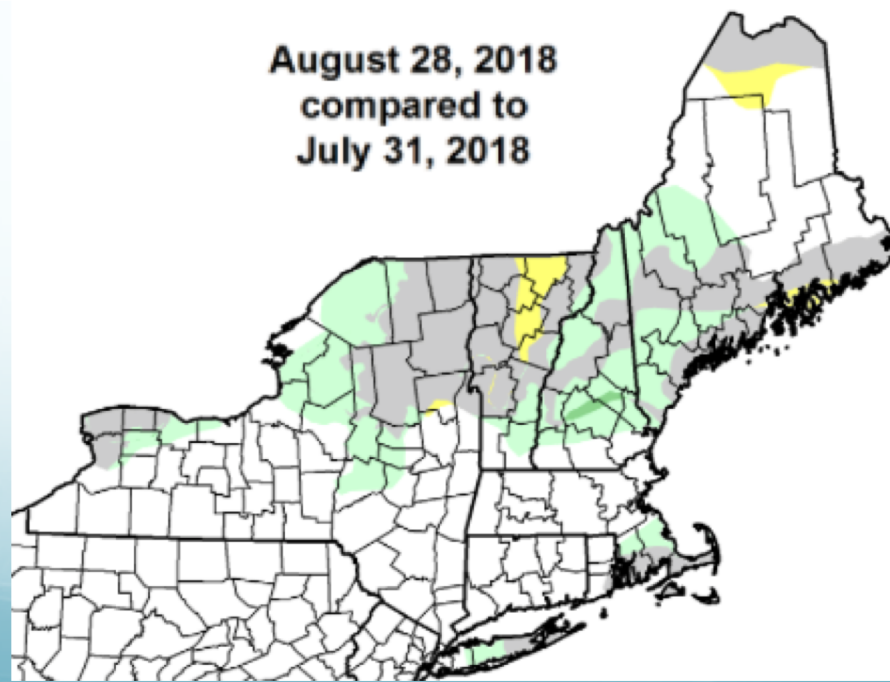
August 28, 2018

(Released Thursday, Aug. 30, 2018)

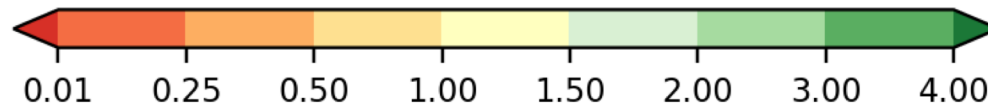
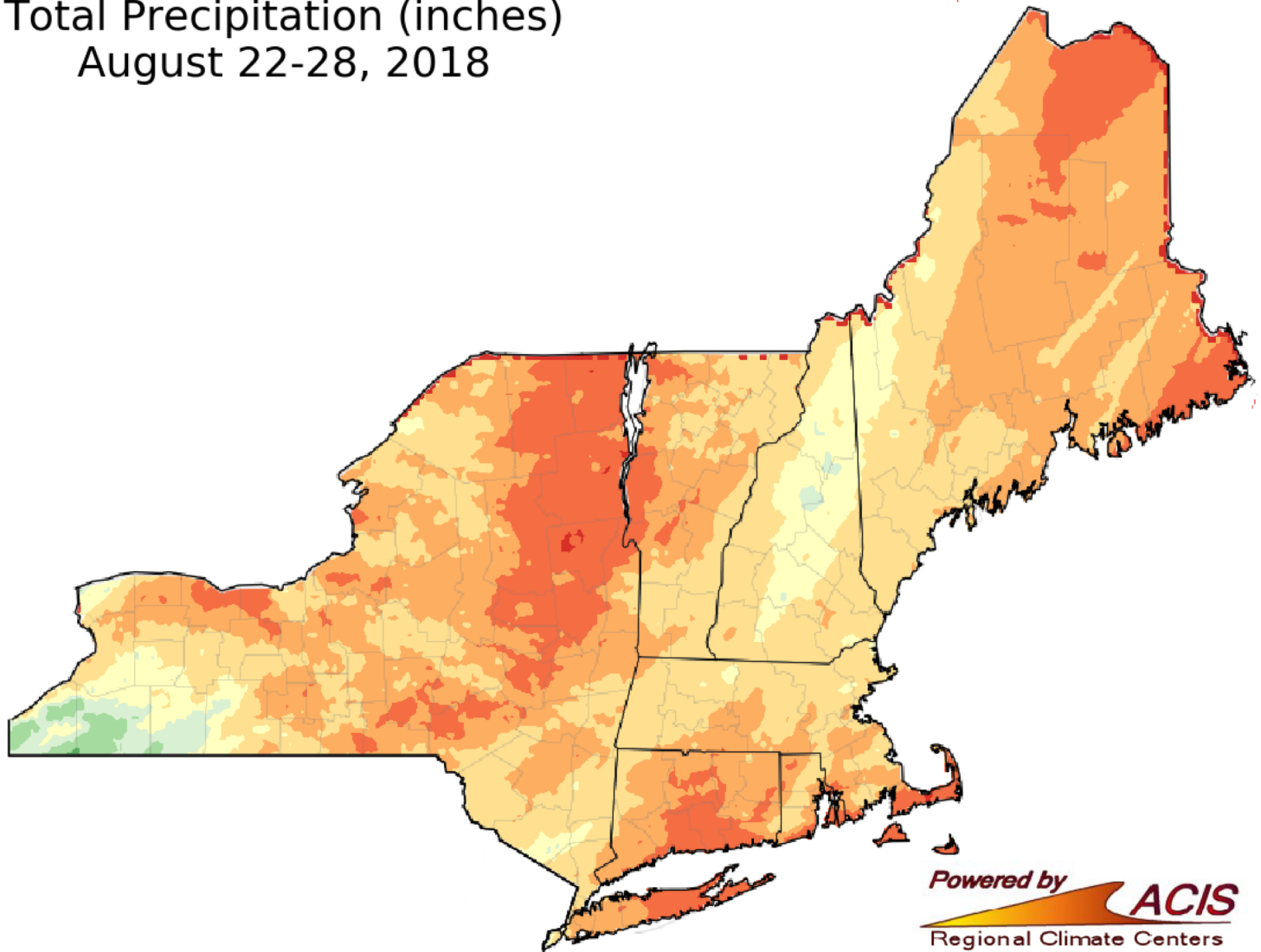
Valid 8 a.m. EDT



**August 28, 2018
compared to
July 31, 2018**

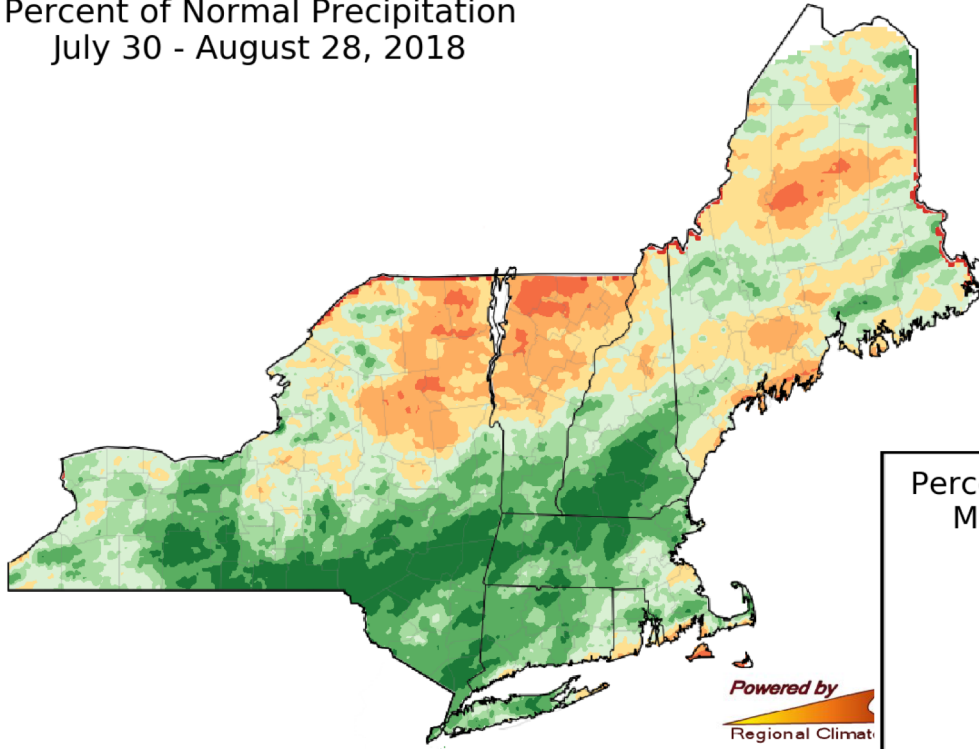


Total Precipitation (inches) August 22-28, 2018

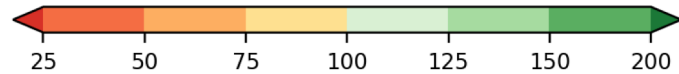


Percent of Normal Precipitation

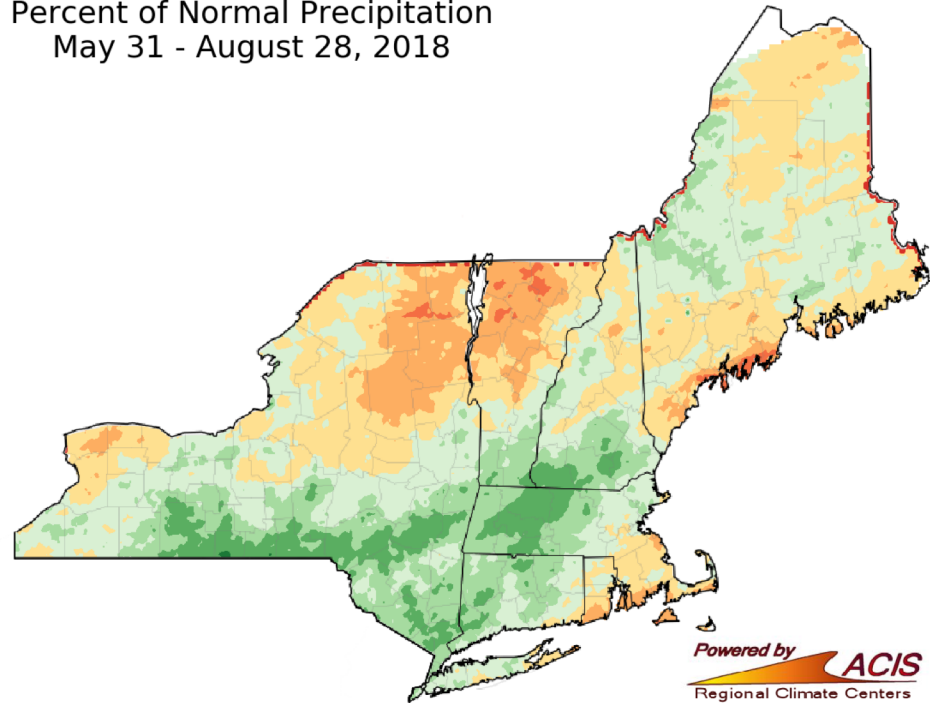
Percent of Normal Precipitation
July 30 - August 28, 2018



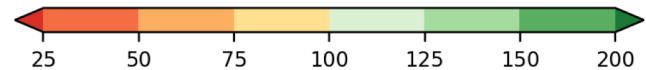
Powered by
Regional Climate



Percent of Normal Precipitation
May 31 - August 28, 2018

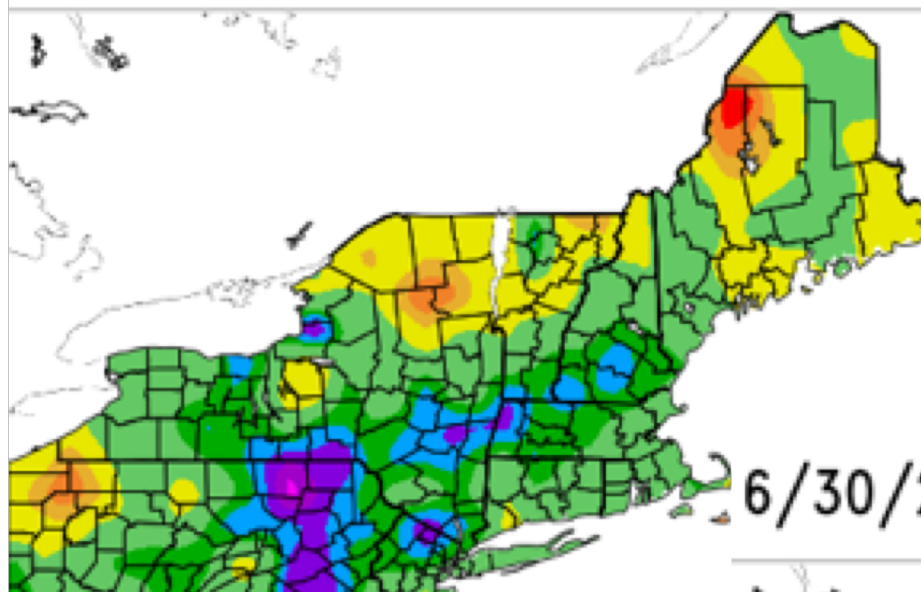


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ACIS
Regional Climate Centers

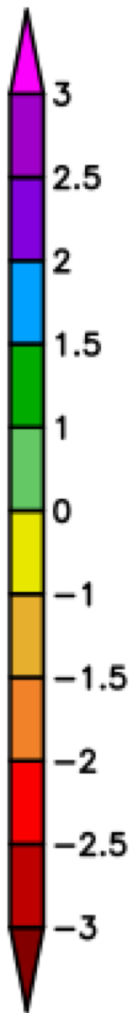
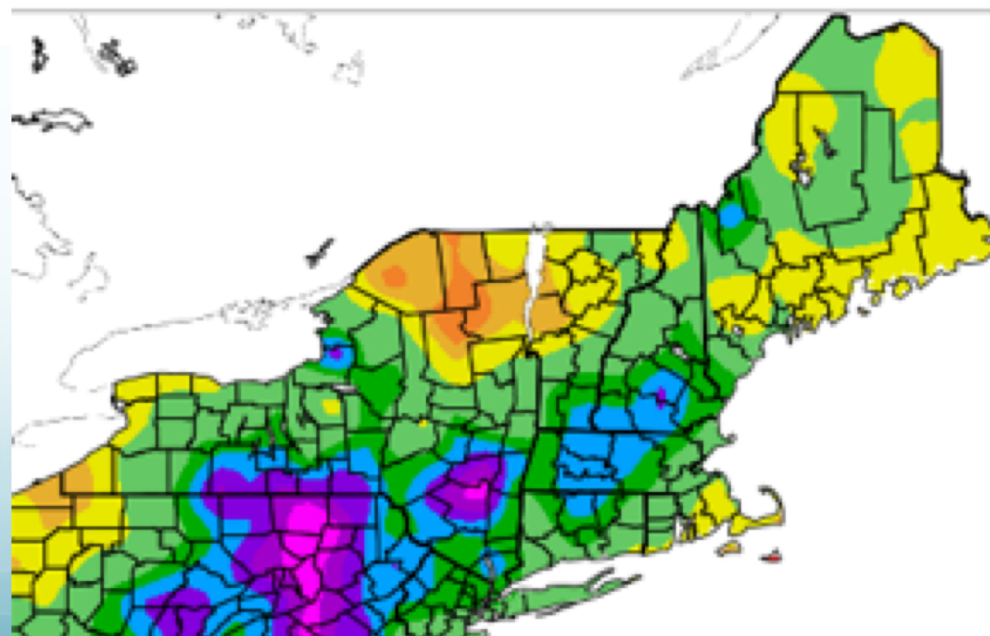


Standardized
Precipitation Index
(SPI)

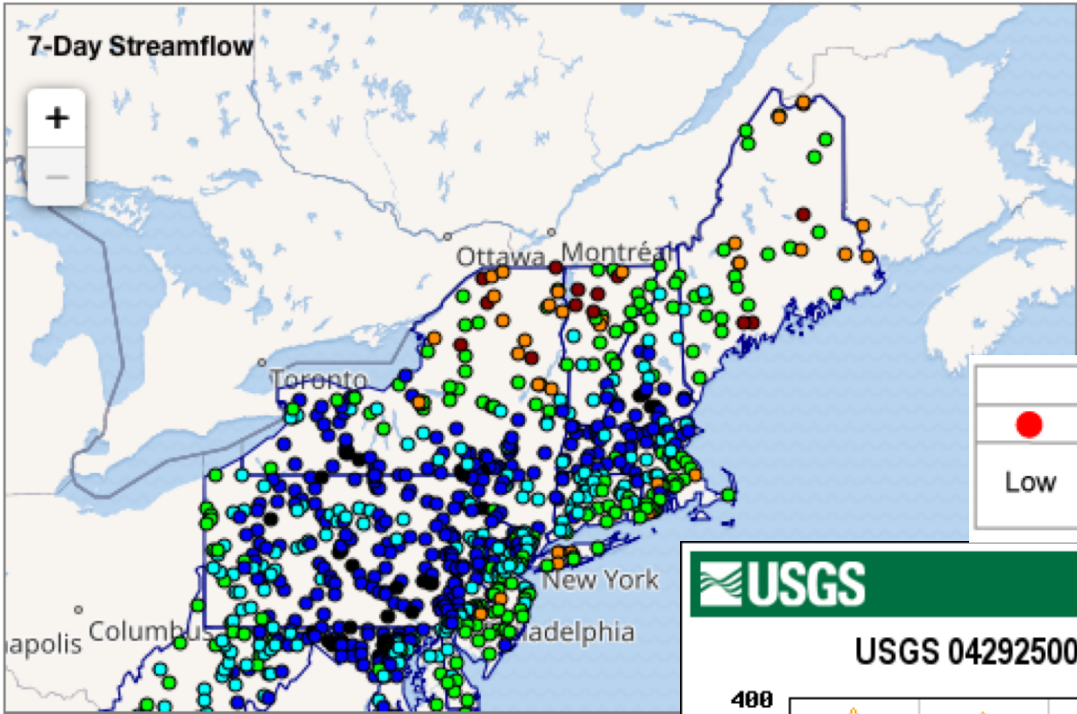
30 Day SPI
7/30/2018 - 8/28/2018



60 Day SPI
6/30/2018 - 8/28/2018



7-Day Streamflow



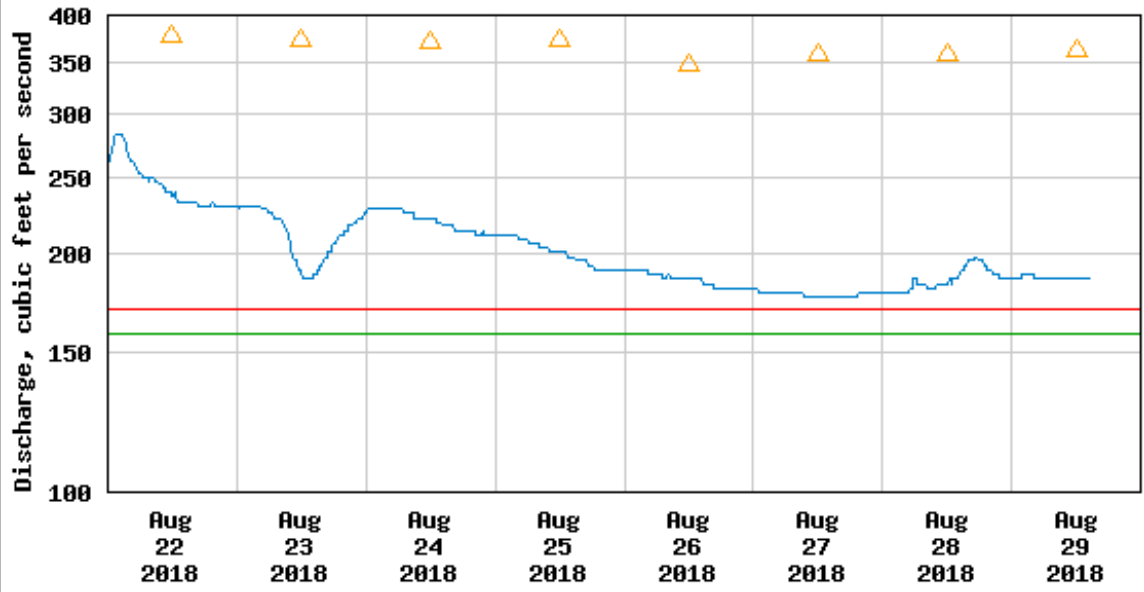
Explanation - Percentile classes						
●	●	●	●	●	●	●
Low	<10	10-24	25-75	76-90	>90	High
	Much below normal	Below normal	Normal	Above normal	Much above normal	

Explanation - Percentile Class				
●	●	●	●	●
Low	Much below normal	Below normal	Normal	Above normal
	<10%	10-24%	25-75%	76-90%

Data provided by [USGS WaterWatch](https://waterwatch.usgs.gov/) -



USGS 04292500 LAMOILLE RIVER AT EAST GEORGIA, VT

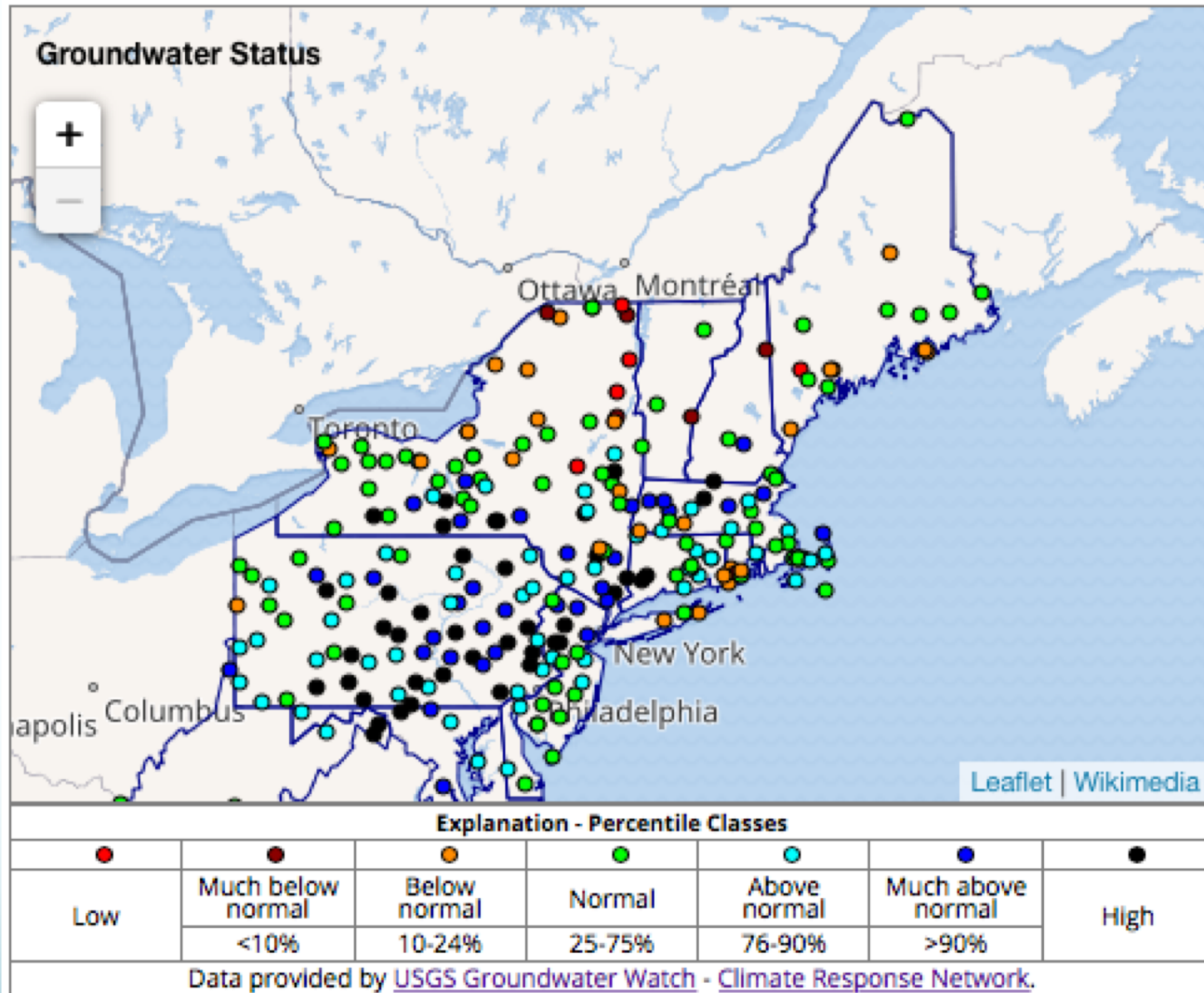


----- Provisional Data Subject to Revision -----

- △ Median daily statistic (88 years)
- Discharge
- 99% Flow duration
- 7-day, 10-year low flow

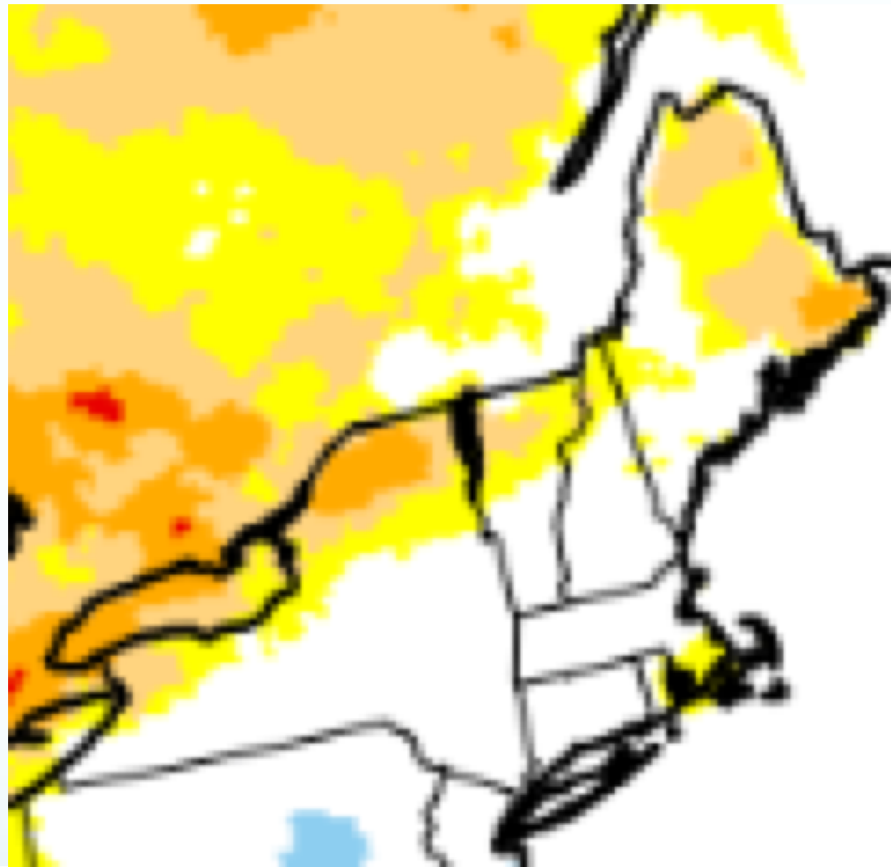


USGA Latest Groundwater



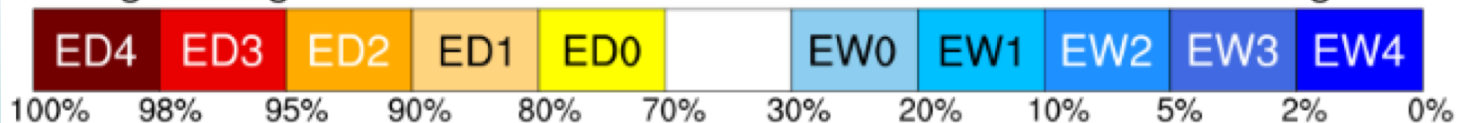
EDDI Evaporative Demand Drought Index

1-month EDDI categories for August 24, 2018



Drought categories

Wetness categories

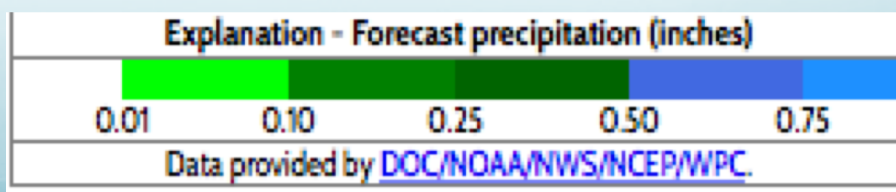
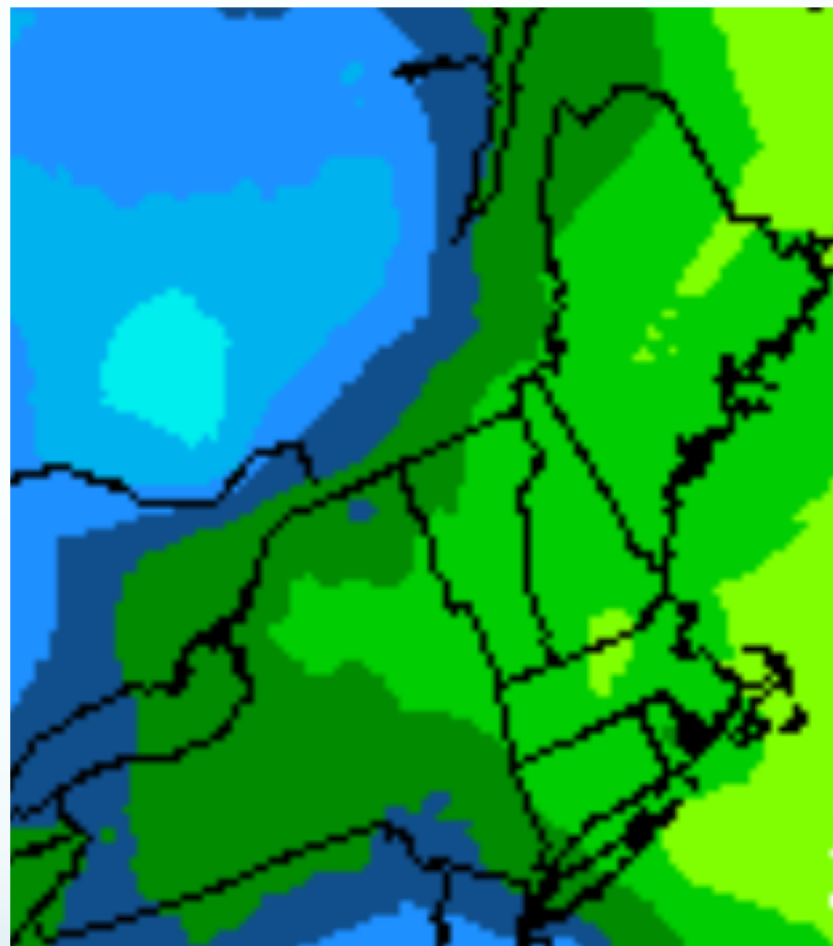


(EDDI-percentile category breaks: 100% = driest; 0% = wettest)





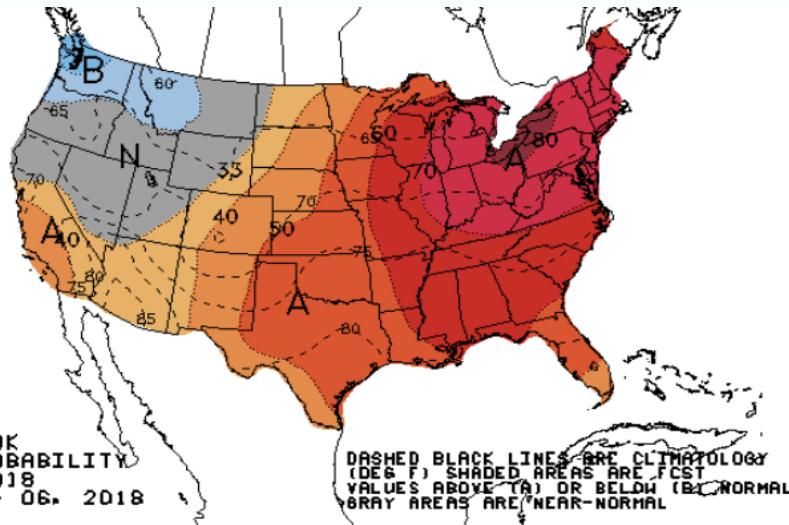
7-Day QPF: August 30-
September 6



Temperature Outlooks



6-10 DAY OUTLOOK
TEMPERATURE PROBABILITY
MADE 27 AUG 2018
VALID SEP 02 - 06, 2018



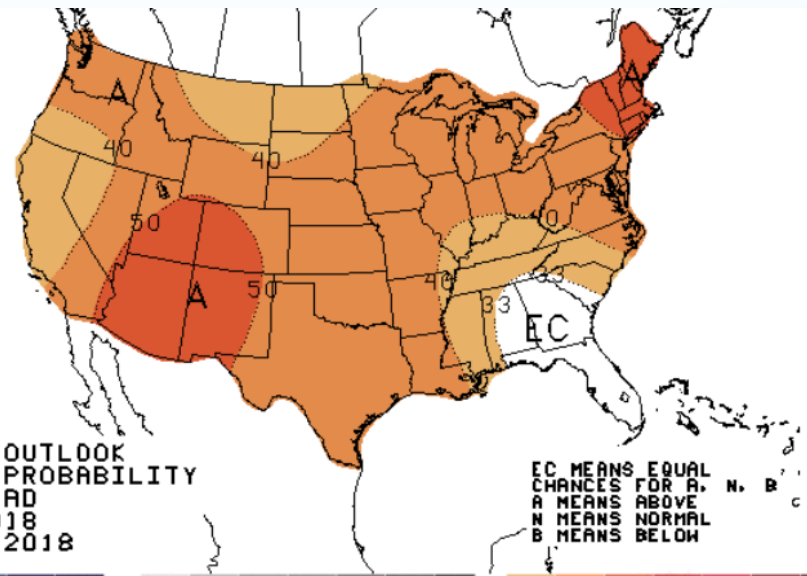
DASHED BLACK LINES ARE CLIMATOLOGY (DEG F). SHADED AREAS ARE FCST VALUES ABOVE (A) OR BELOW (B) NORMAL. GRAY AREAS ARE "NEAR-NORMAL"

September 2 – September 6
Increased chances of above-average temperatures for the entire region (left).

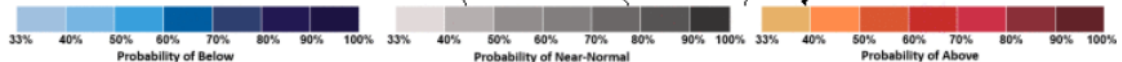
September – November:
Increased chances of above-normal temperatures for the Northeast, especially New England (right).



THREE-MONTH OUTLOOK
TEMPERATURE PROBABILITY
0.5 MONTH LEAD
VALID SON 2018
MADE 16 AUG 2018



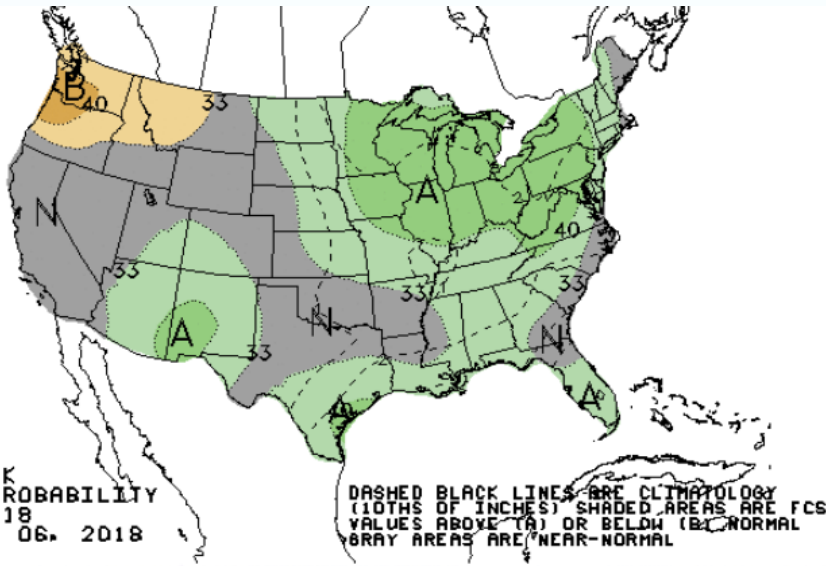
EC MEANS EQUAL CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW



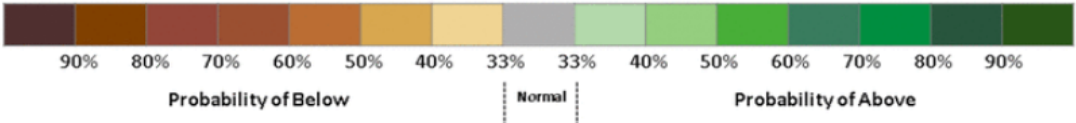
Precipitation Outlooks



6-10 DAY OUTLOOK
PRECIPITATION PROBABILITY
MADE 27 AUG 2018
VALID SEP 02 - 06, 2018



DASHED BLACK LINES ARE CLIMATOLOGY (10THS OF INCHES) SHADED AREAS ARE FCS VALUES ABOVE (A) OR BELOW (B) NORMAL GRAY AREAS ARE NEAR-NORMAL

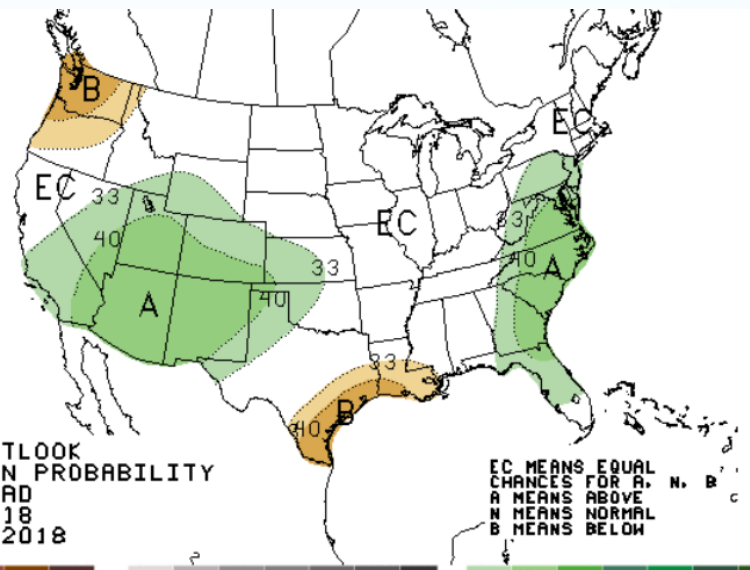


September 2 – September 6
Increased chances of above-normal precipitation for much of the Northeast (left).

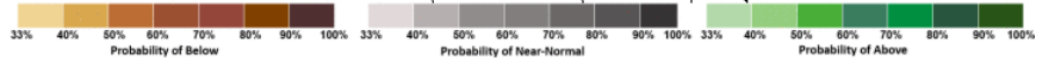
September:
Increased chances of above-normal precipitation in the Mid-Atlantic, with equal chances elsewhere (right).



ONE-MONTH OUTLOOK
PRECIPITATION PROBABILITY
0.5 MONTH LEAD
VALID SEP 2018
MADE 16 AUG 2018



EC MEANS EQUAL CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW



Impacts

- Aug 6, **Niagara County, New York.** Some crops in Niagara County never came up, and second plantings were not very successful either.
- Aug 6, **Milford, New York.** A Conserve Water Order took effect on Aug. 5 in Milford, where water tables were extremely low, due to poor rainfall, according to the mayor. Water production had fallen from 80,000 gallons per minute to about 800 gallons per minute.
- Aug 7, **Maine.** Dry conditions were affecting wells in Maine, as groundwater levels continued their slow decline over the summer.
- Aug 9, **Northeast Massachusetts.** Water restrictions took effect in West Newbury as water tank levels were dropping, due to extreme use and drought, according to a new release from the town. Neighboring communities of Salisbury, Merrimac and Rowley also enacted limits on water use this summer.



Questions?

Type into Q&A Box or Click “Raise Hand” to become a panelist & unmute yourself

irrigation
brown
garden
forecast fields
streams topsoil CoCoRaHS
plants farms corn
drought river sod lawn dormant
lawns grass ban
growth dry gardens
crops burn
slow
hay ground stress rain
restrictions
conserve streamflow
trees evaporation
moisture curling
water



Other Impacts not reflected here?

Please email us! NRCC@CORNELL.EDU

Contact Information

- nrcc@cornell.edu
- 607-255-1751

Upcoming Webinar

- Thursday, September 27 at 9:30 am
 - Marine Fisheries Service
- Tuesday, October 30 at 9:30 am

www.nrcc.cornell.edu