

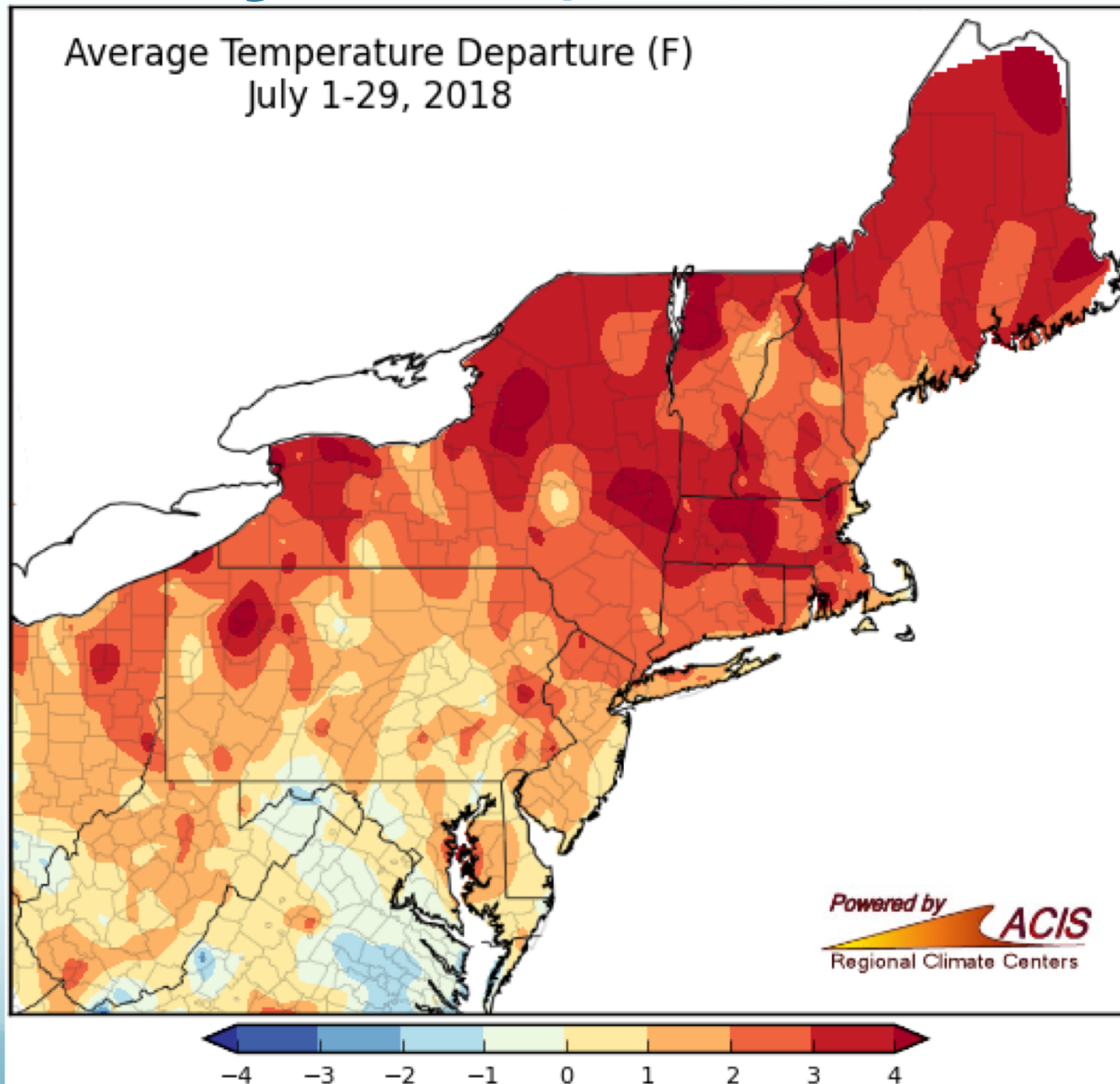
# July Recap

## Northeast DEWS Discussion

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



# July Temperatures



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

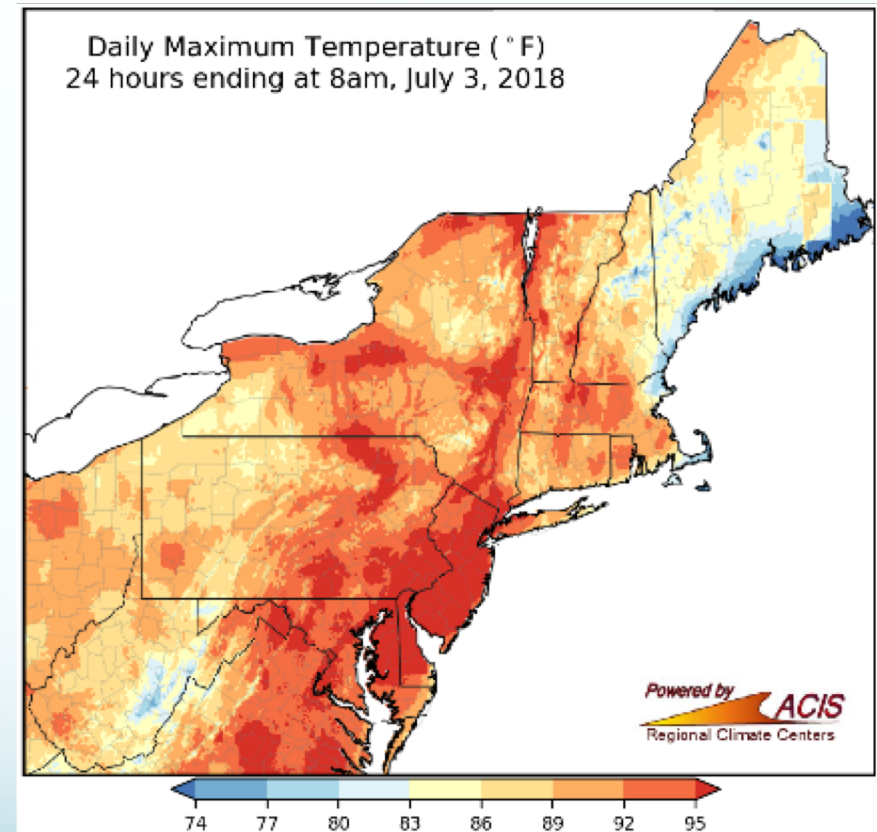


# Fourth of July Heat Wave

## *Daily Minimum Temperature Records (°F)*

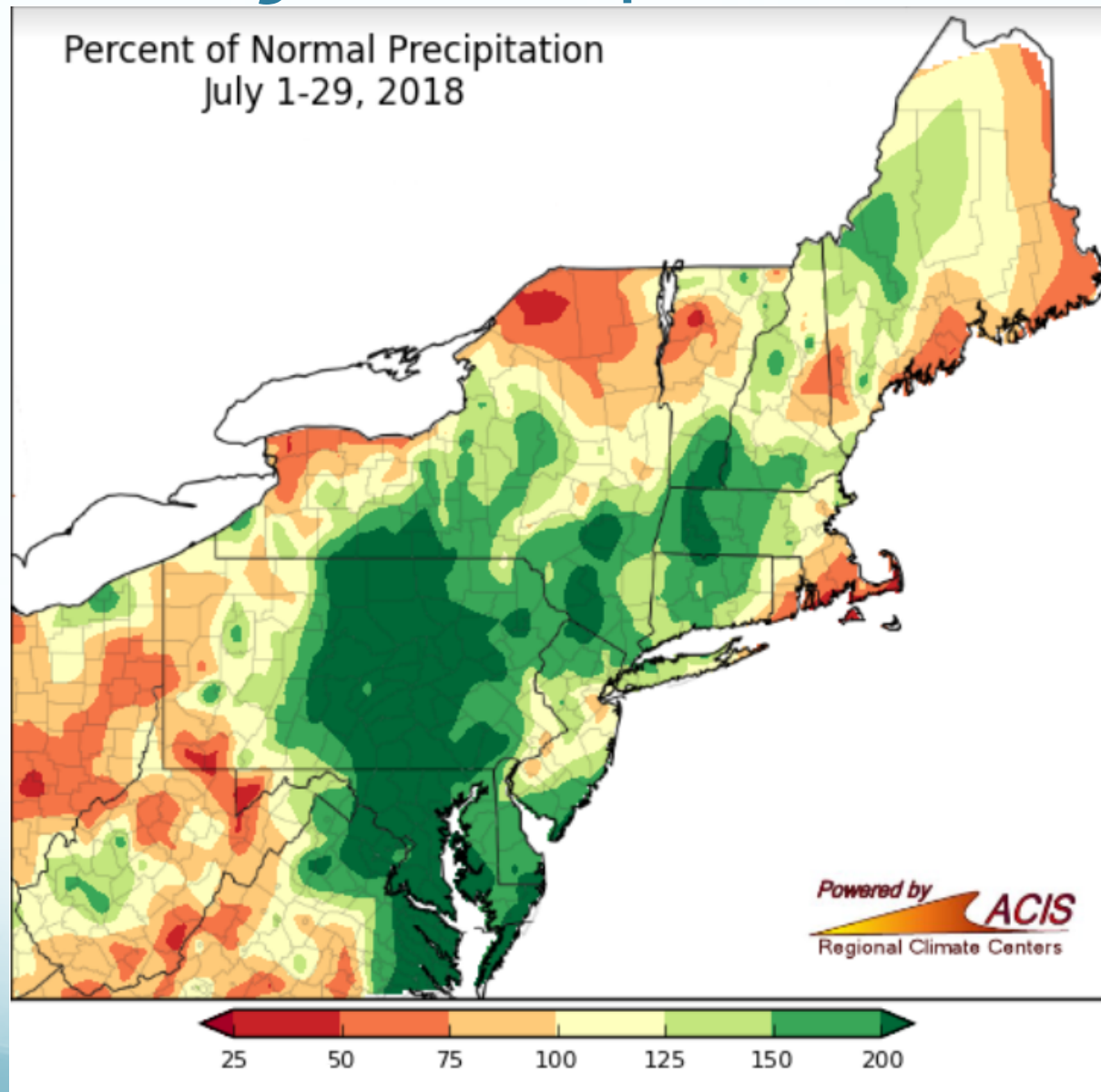
Station	Date	New
Central Park, NY	1	79
LaGuardia Airport, NY	1	79
Newark, NJ	1	77
Binghamton, NY	1	69
Burlington, VT	2	80
Albany, NY	2	77
Kennedy Airport, NY	2	74
Hartford, CT	2	73
Hartford, CT	4	74
Beckley, WV	4	68
Albany, NY	5	75
Bridgeport, CT	5	74
Dulles Airport, VA	5	74

Record warm minimum temperatures were set at multiple areas from July 1 through July 5.



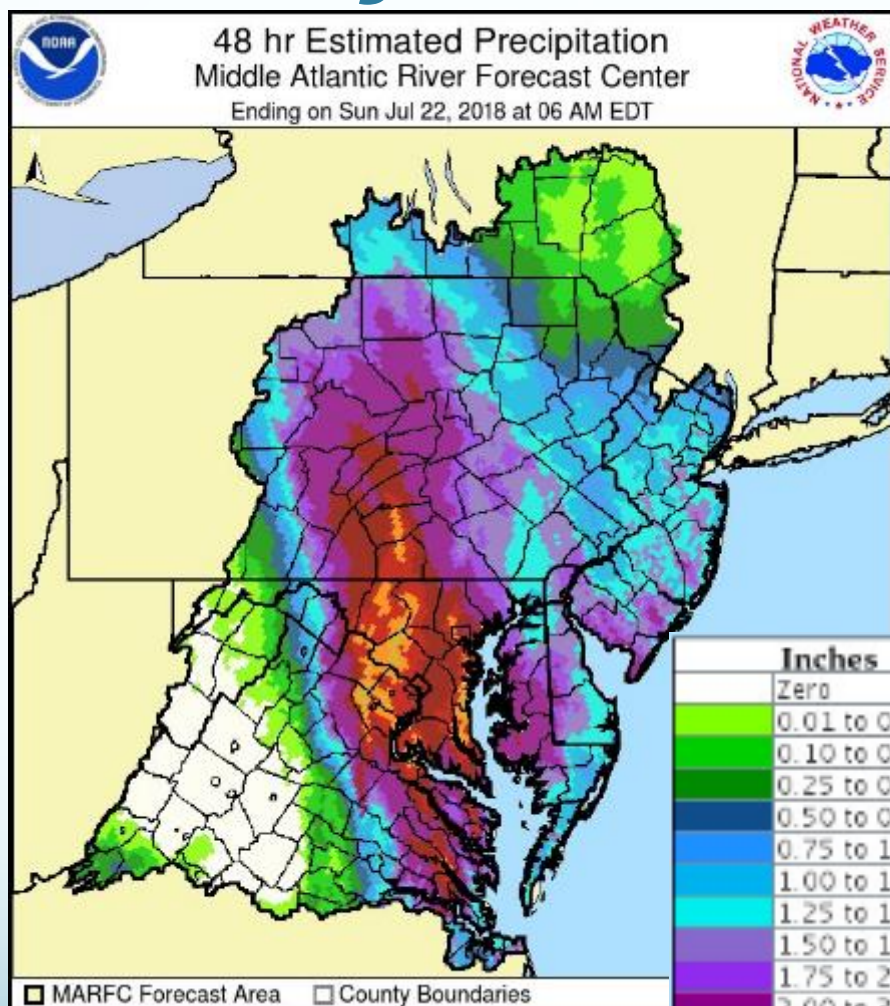
High temperatures on  
July 2 in the Northeast.

# July Precipitation

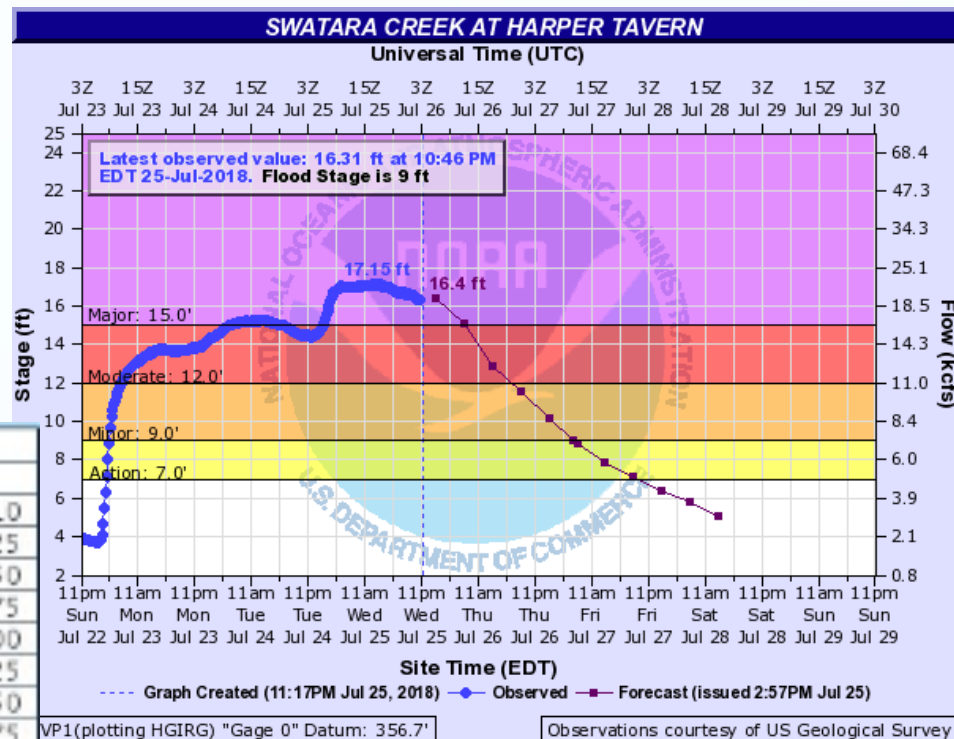


From less than 50% of normal to over 200% of normal.

# Heavy Rain in the Mid-Atlantic



Estimated rainfall during 2 days of heavy precipitation.



Flooding reported near Swatara Creek, PA.

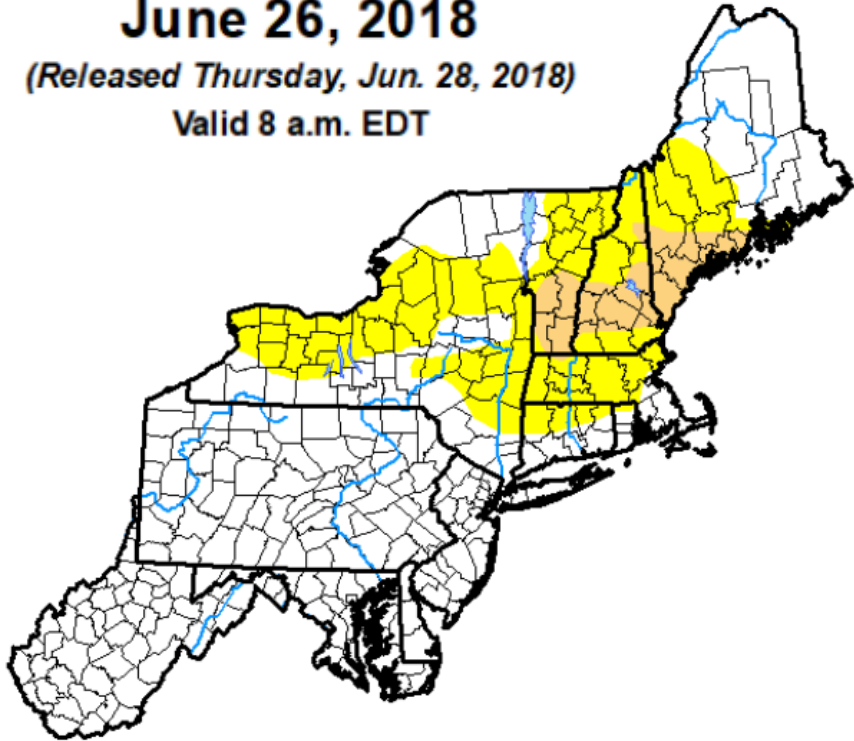


# Drought Monitor

**June 26, 2018**

***(Released Thursday, Jun. 28, 2018)***


**Valid 8 a.m. EDT**



At the beginning of July, 25% of the region was abnormally dry and 6% was experiencing moderate drought.

Intensity:

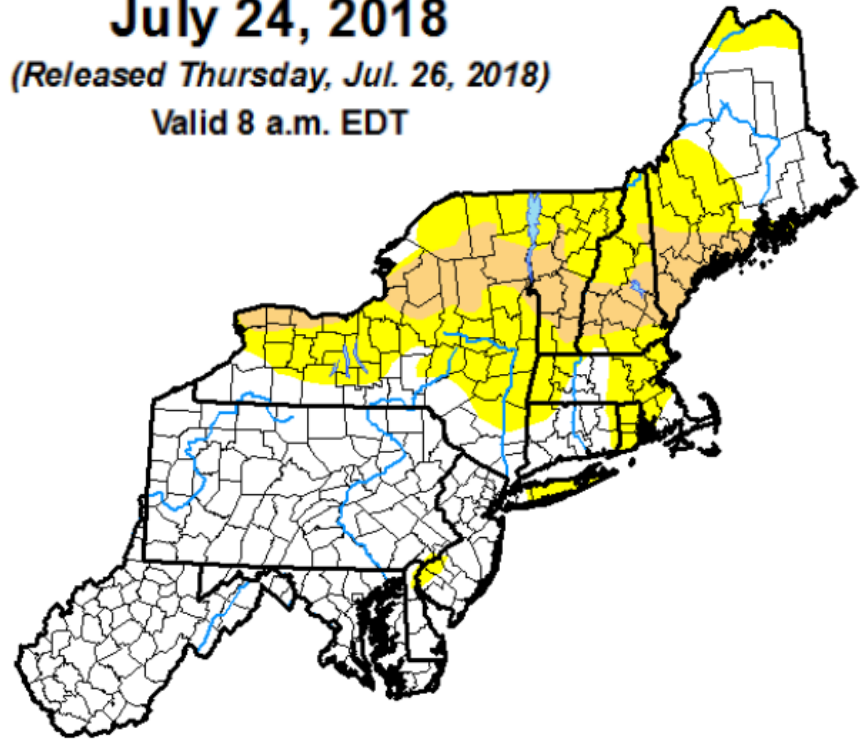
**D0 Abnormally Dry**

 D1 Moderate Drought

**July 24, 2018**

***(Released Thursday, Jul. 26, 2018)***

**Valid 8 a.m. EDT**



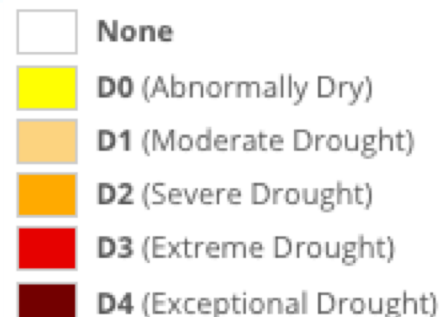
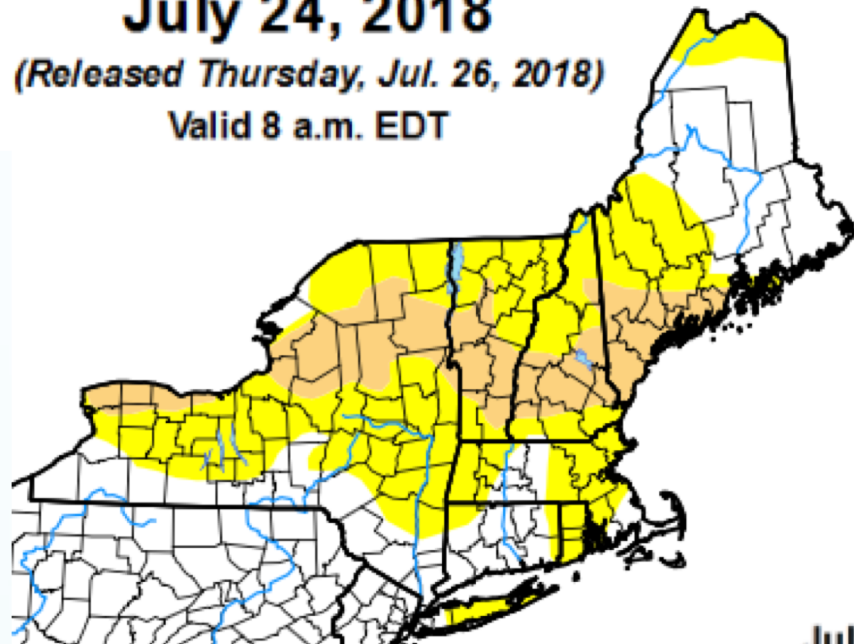
By the end of the month,  
27% was abnormally dry  
and 11% was in moderate  
drought.

# United States Drought Monitor

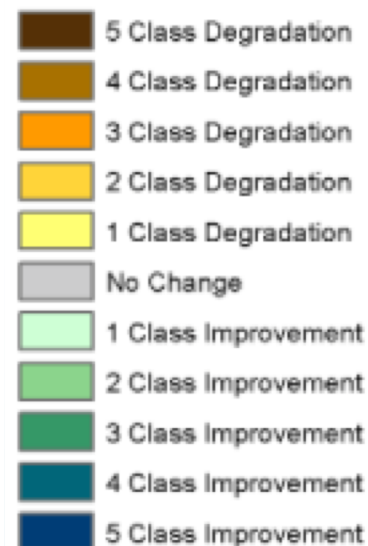
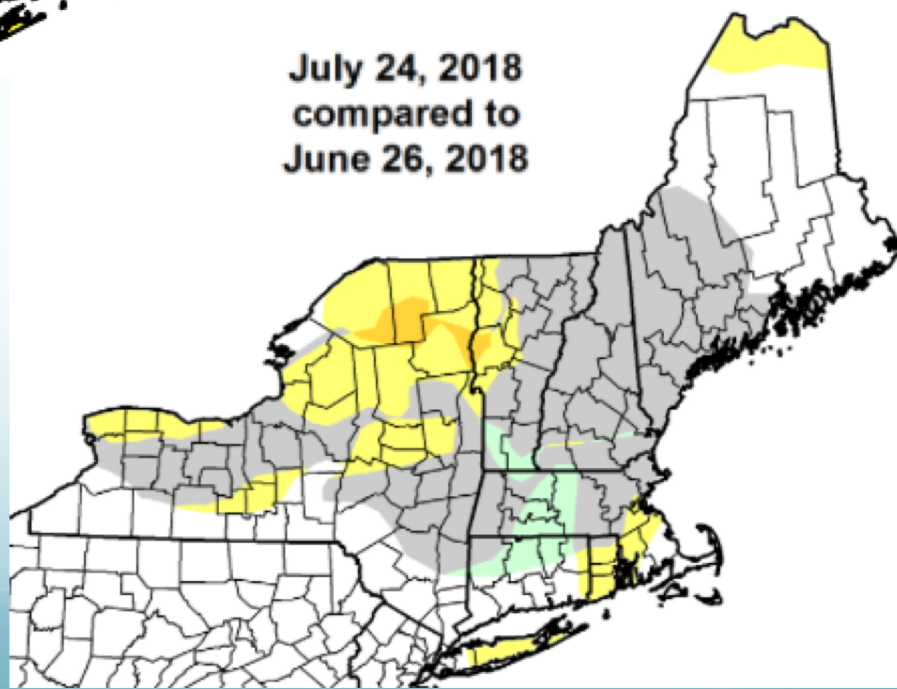
**July 24, 2018**

*(Released Thursday, Jul. 26, 2018)*

Valid 8 a.m. EDT



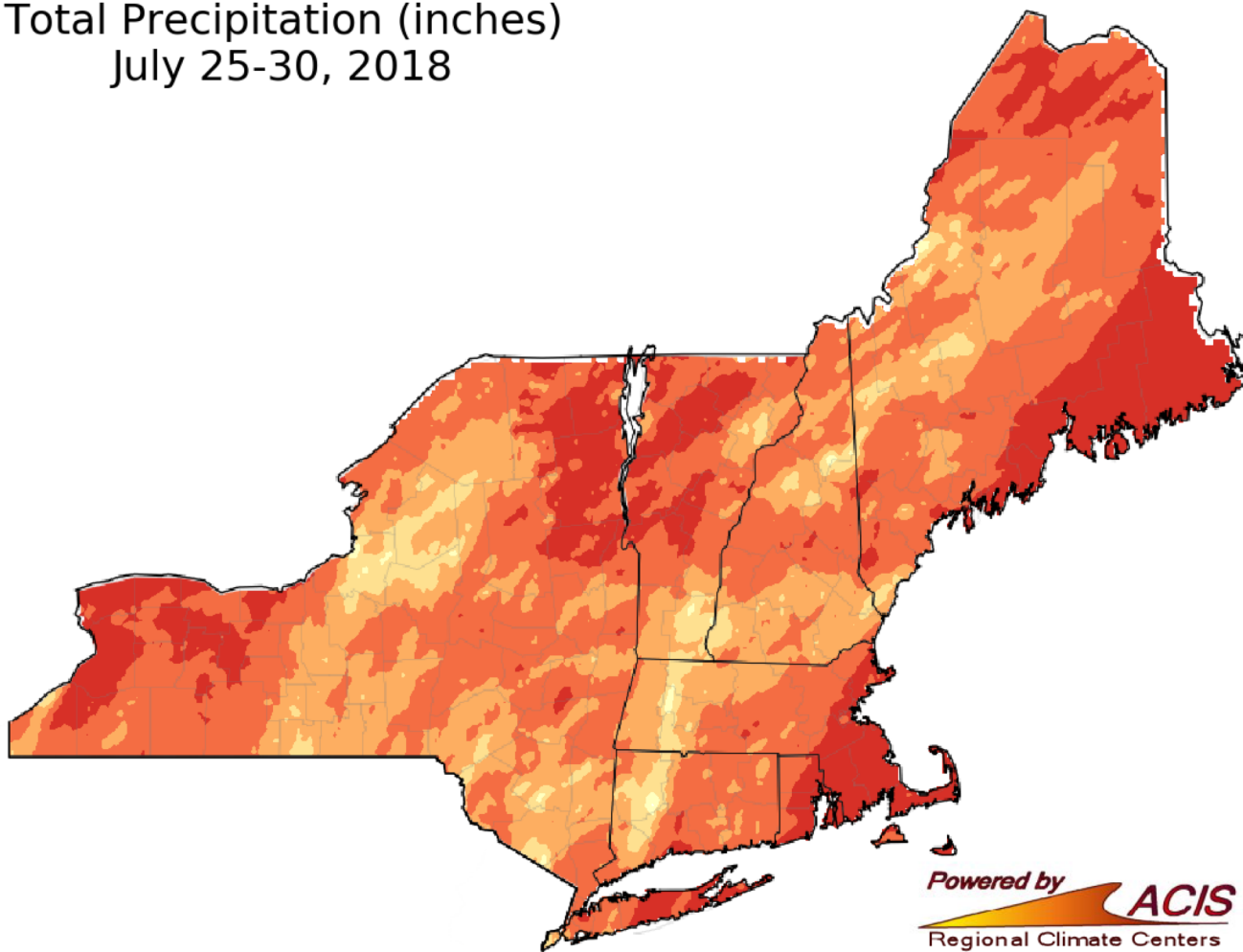
**July 24, 2018  
compared to  
June 26, 2018**



NRCC



Total Precipitation (inches)  
July 25-30, 2018

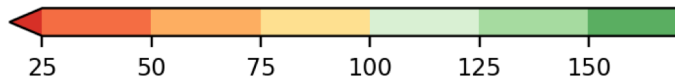
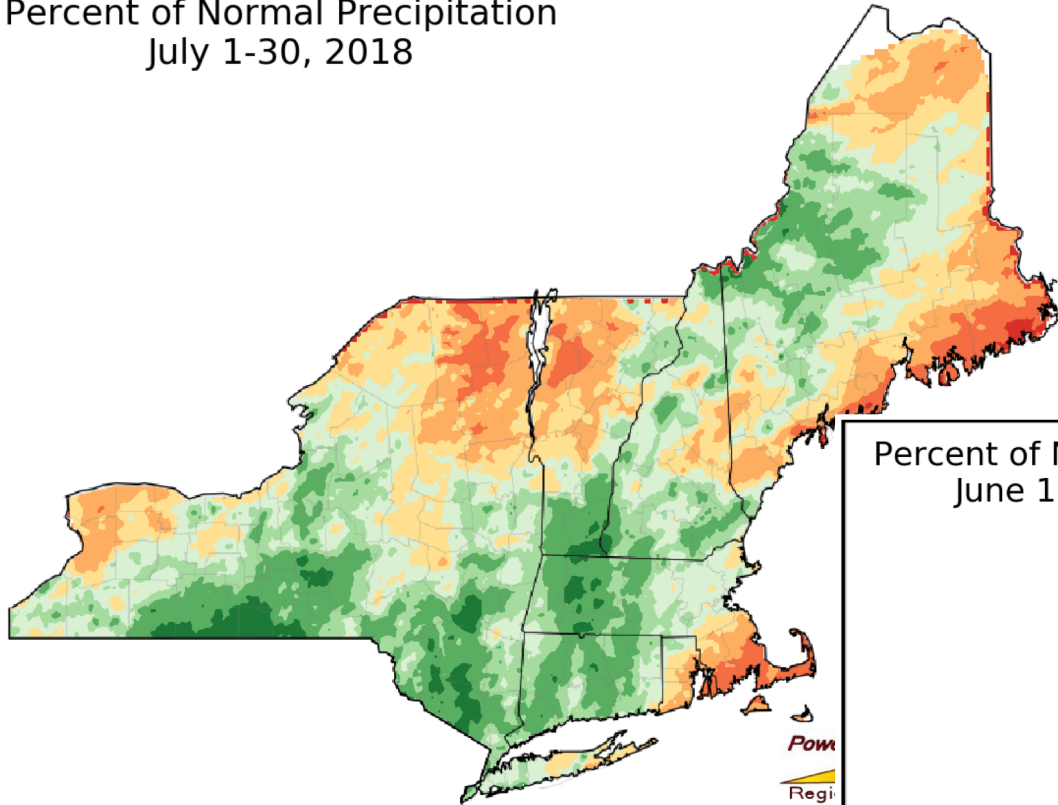


Powered by **ACIS**  
Regional Climate Centers

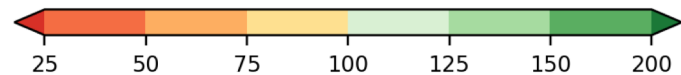
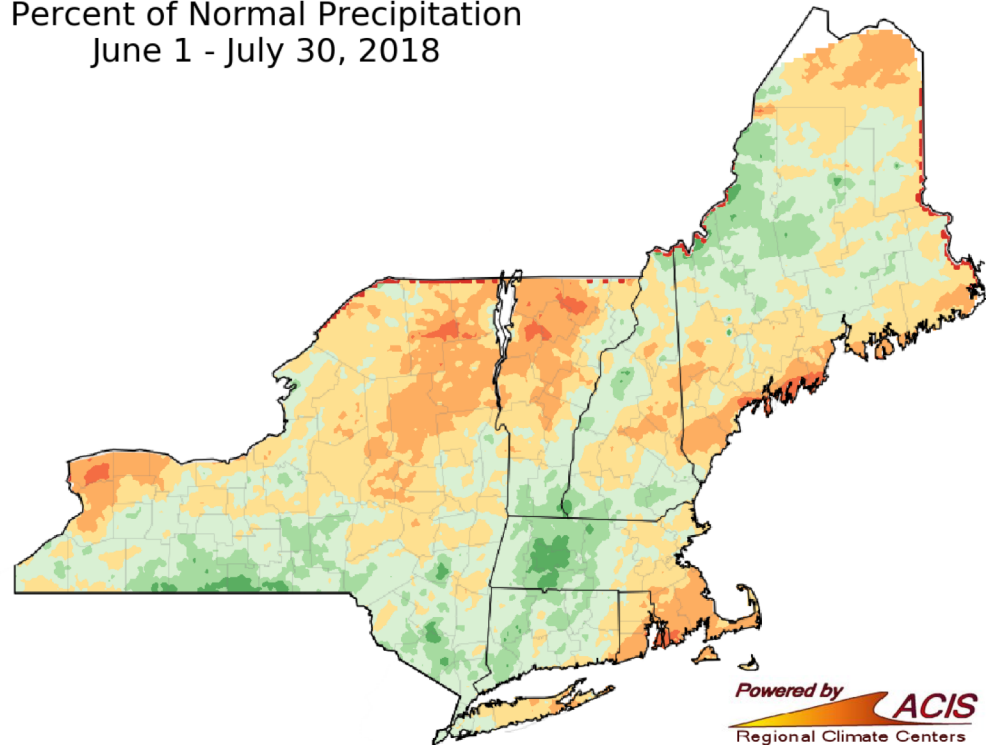


# Percent of Normal Precipitation

Percent of Normal Precipitation  
July 1-30, 2018



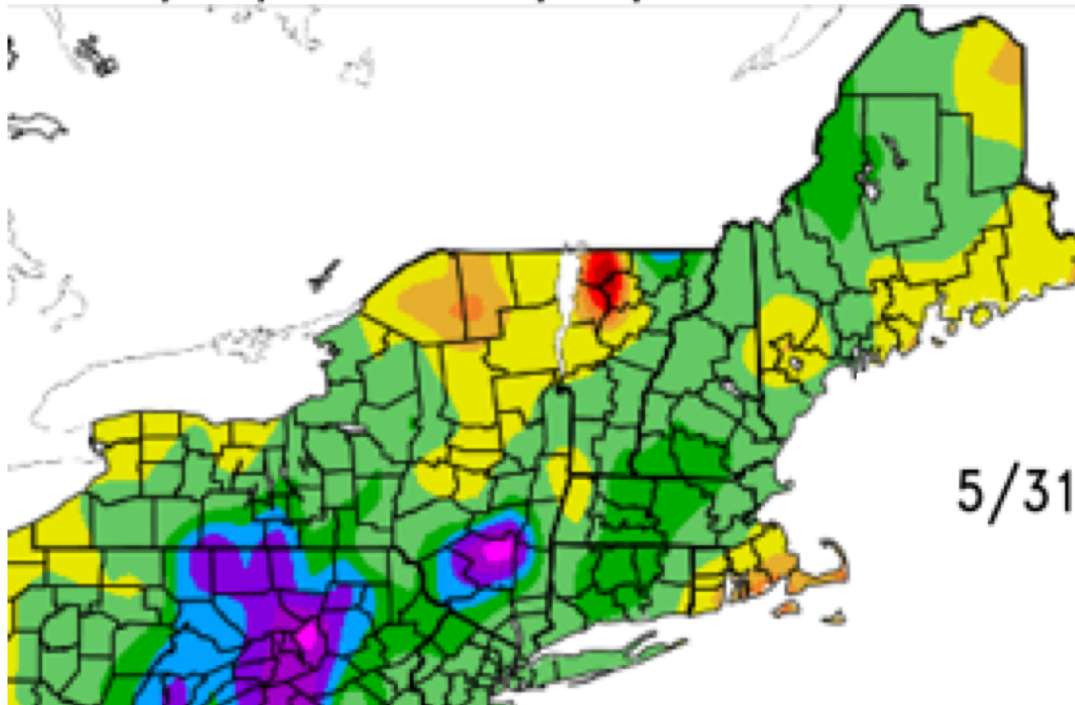
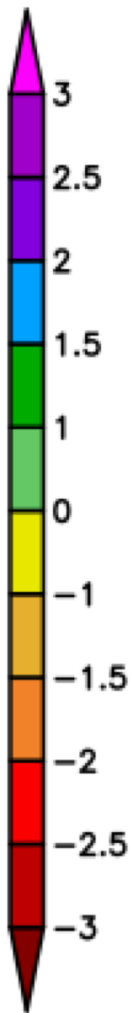
Percent of Normal Precipitation  
June 1 - July 30, 2018



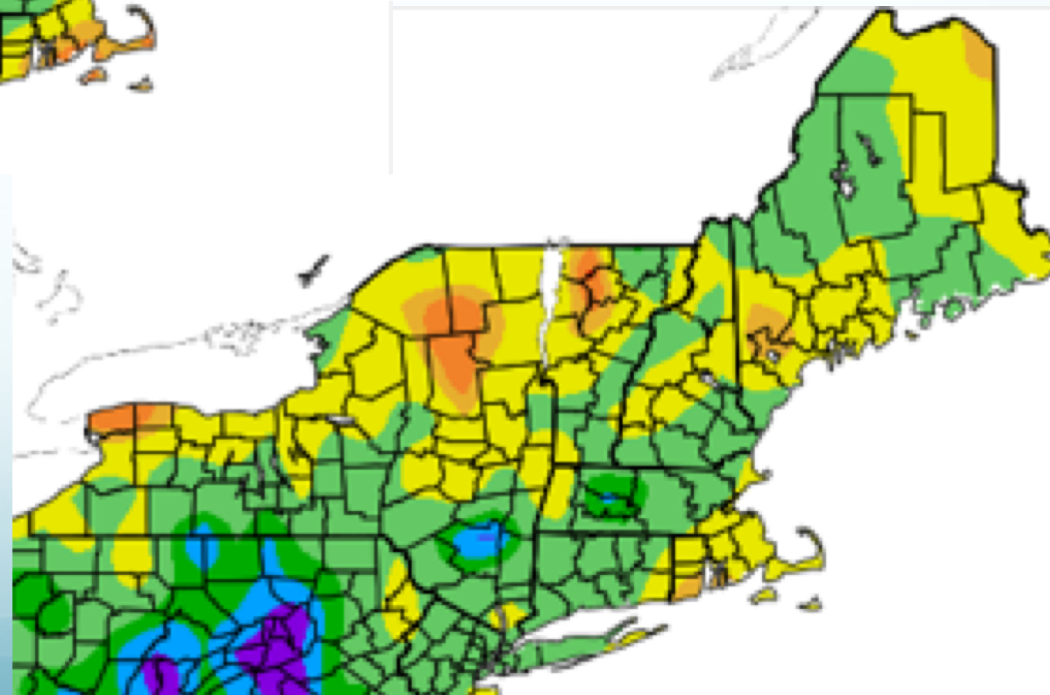


30 Day SPI  
6/30/2018 – 7/29/2018

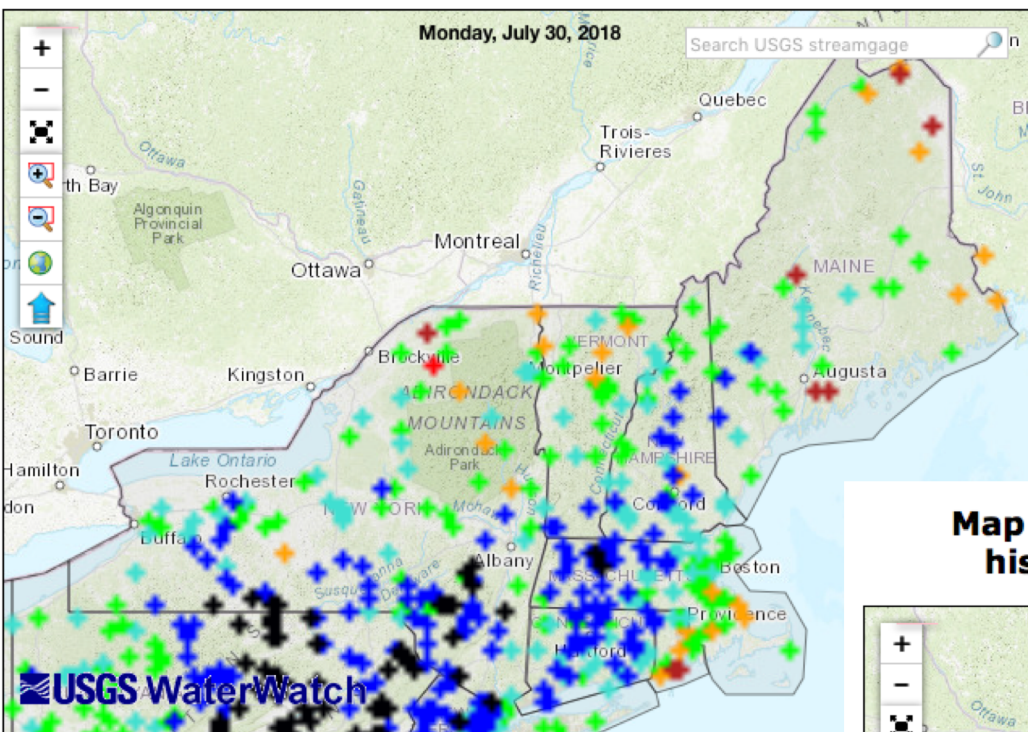
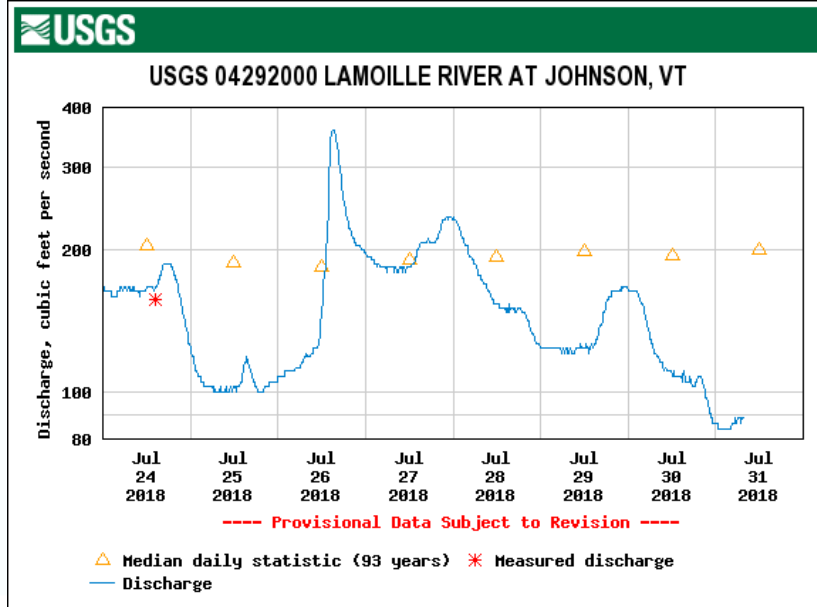
Standardized  
Precipitation Index  
(SPI)



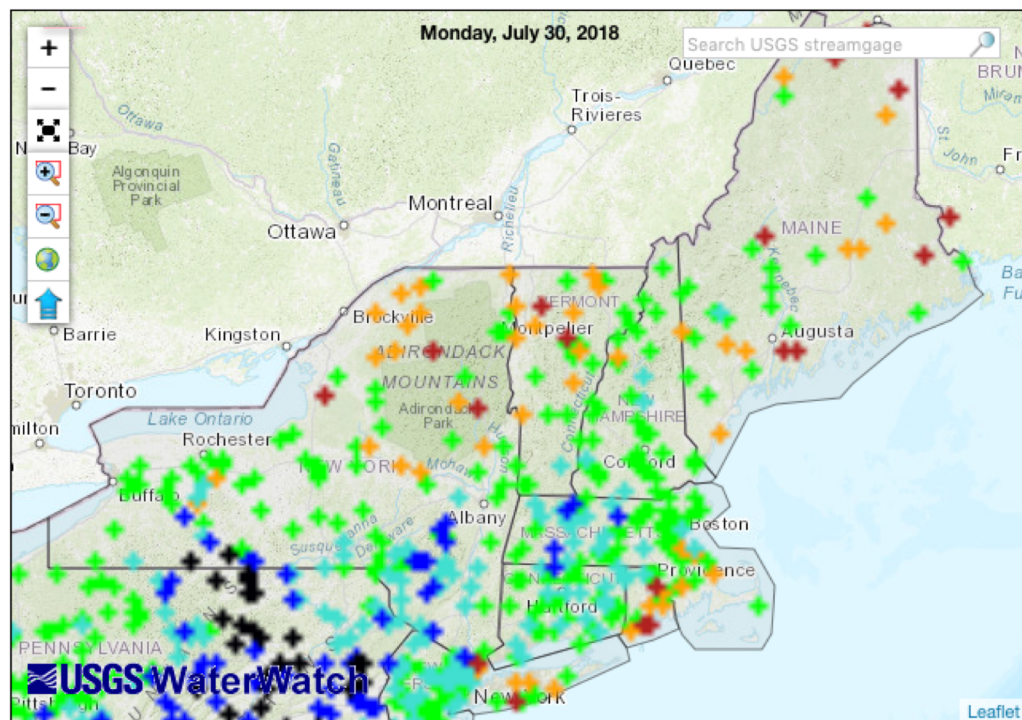
60 Day SPI  
5/31/2018 – 7/29/2018



# Map of 7-day average streamflow compared to historical streamflow for the day of the year



# Map of 28-day average streamflow compared to historical streamflow for the day of the year



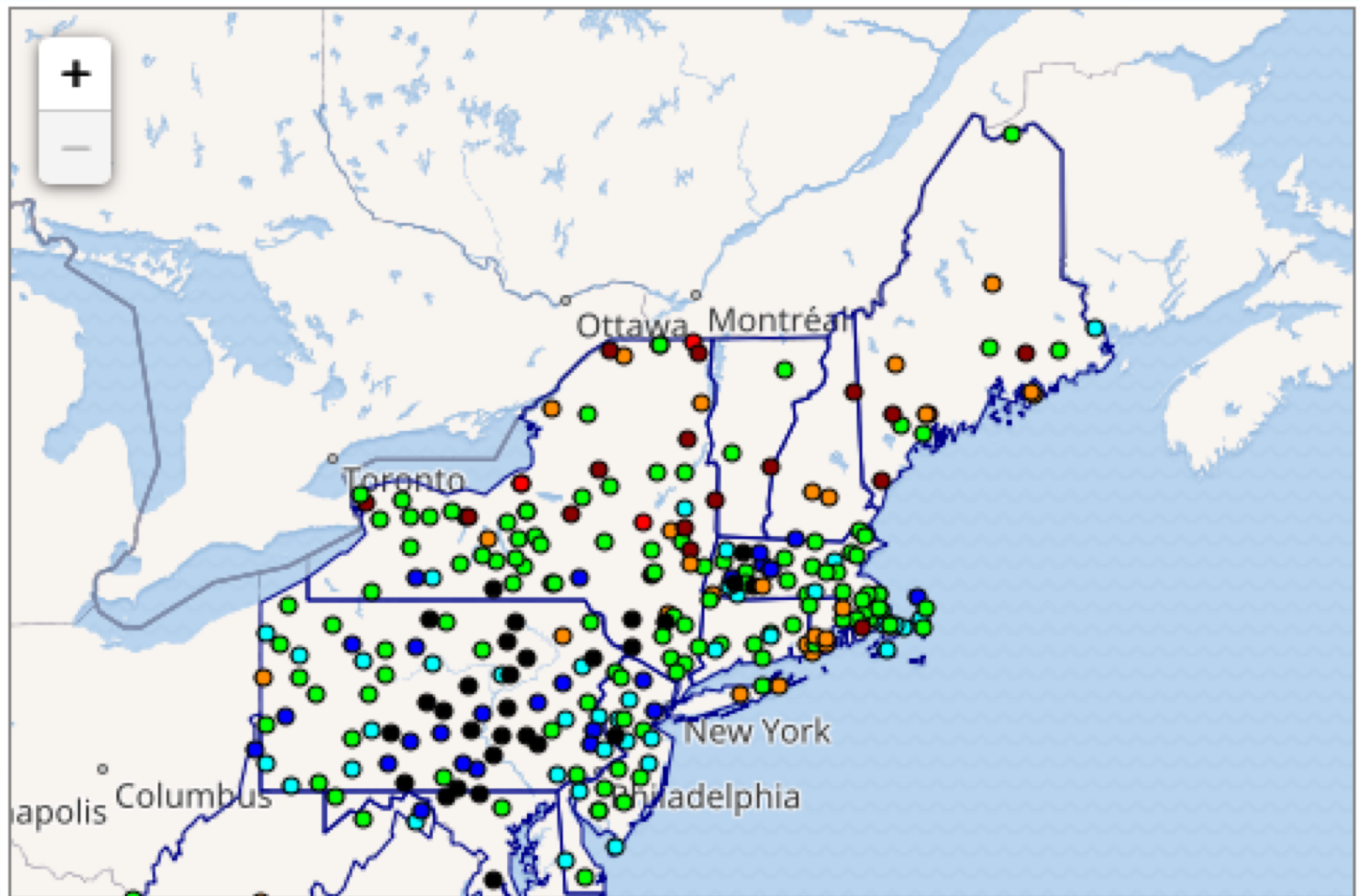
## Explanation - Percentile classes

<span style="color: red;">●</span>	<span style="color: red;">●</span>	<span style="color: orange;">●</span>	<span style="color: green;">●</span>	<span style="color: cyan;">●</span>	<span style="color: blue;">●</span>	<span style="color: black;">●</span>
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High





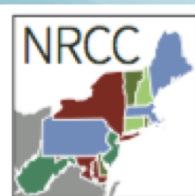
# USGA Latest Groundwater



Explanation - Percentile Classes

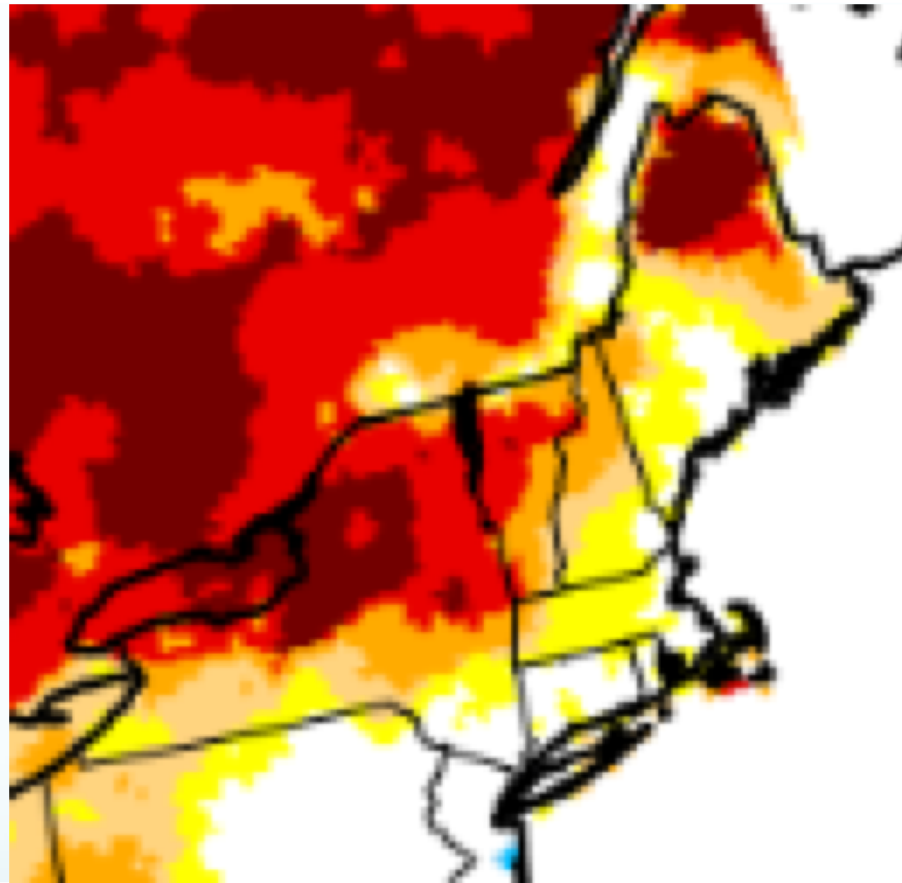
Low		Much below normal	Below normal	Normal	Above normal	Much above normal	High
		<10%	10-24%	25-75%	76-90%	>90%	

Data provided by [USGS Groundwater Watch](#) - [Climate Response Network](#).



# EDDI Evaporative Demand Drought Index

1-month EDDI categories for July 25, 2018



Drought categories



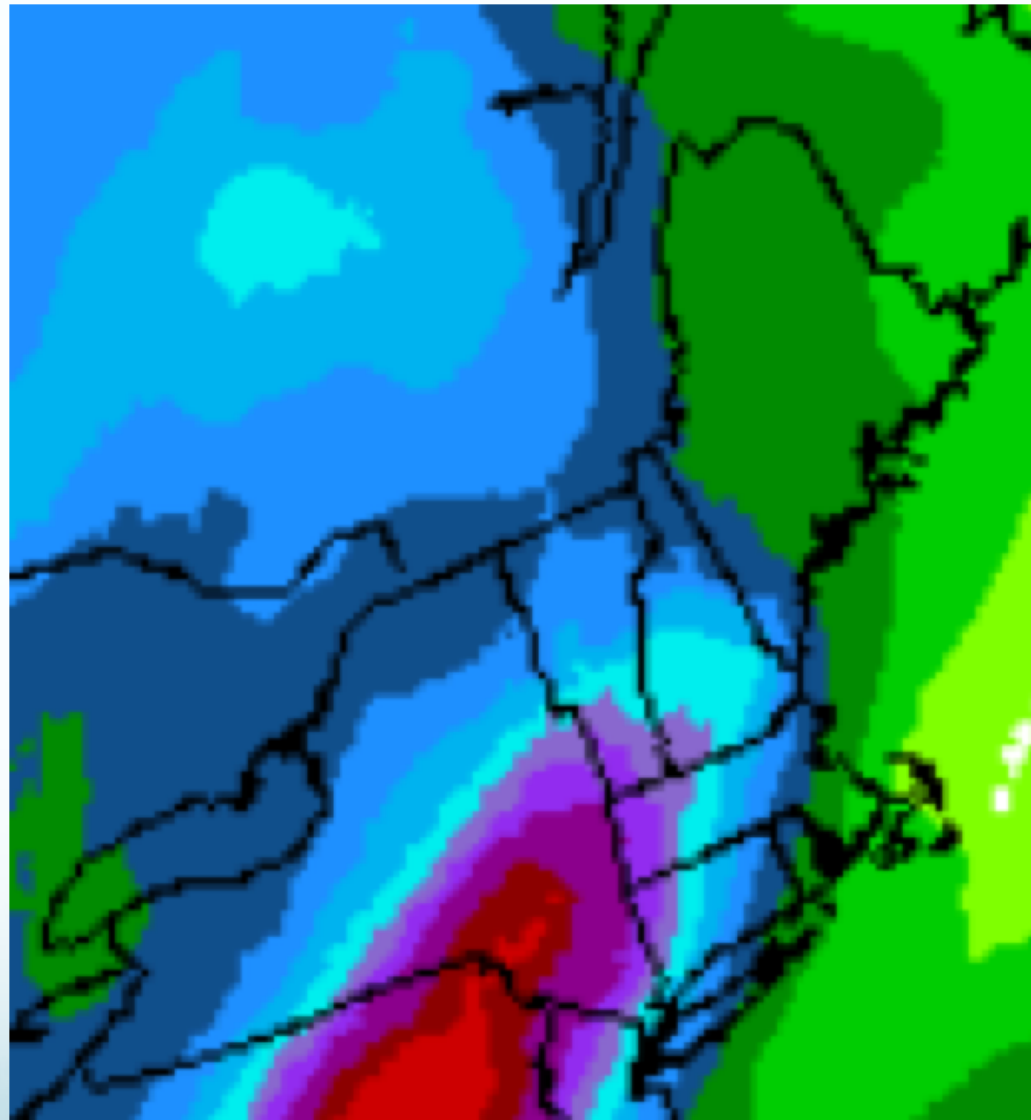
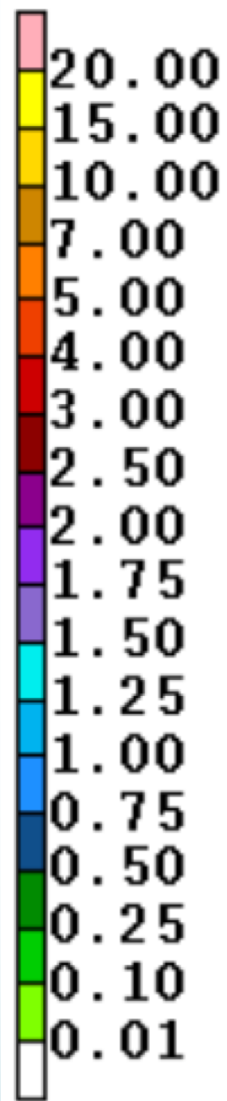
Wetness categories



100% 98% 95% 90% 80% 70% 30% 20% 10% 5% 2% 0%

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



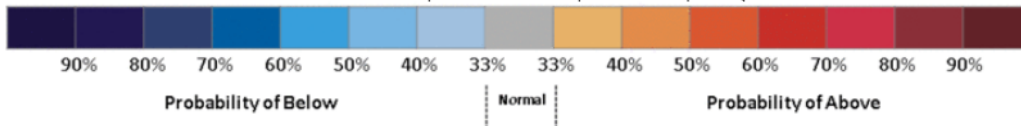


# Temperature Outlooks



6-10 DAY OUTLOOK  
TEMPERATURE PROBABILITY  
MADE 29 JUL 2018  
VALID AUG 04 - 08, 2018

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



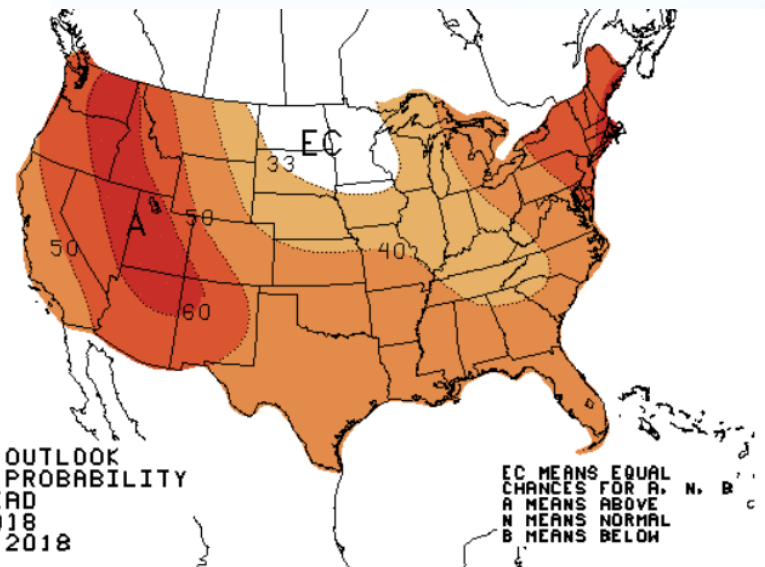
August – October:  
Increased chances of above-normal temperatures for the Northeast (right).



THREE-MONTH OUTLOOK  
TEMPERATURE PROBABILITY  
0.5 MONTH LEAD  
VALID ASO 2018  
MADE 19 JUL 2018



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

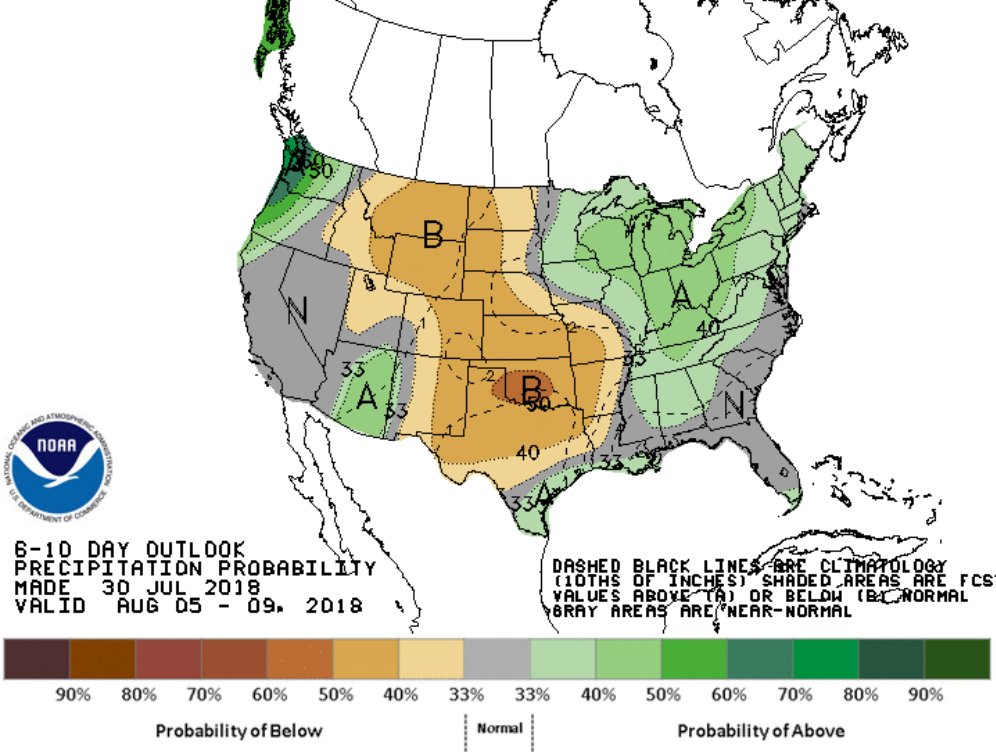




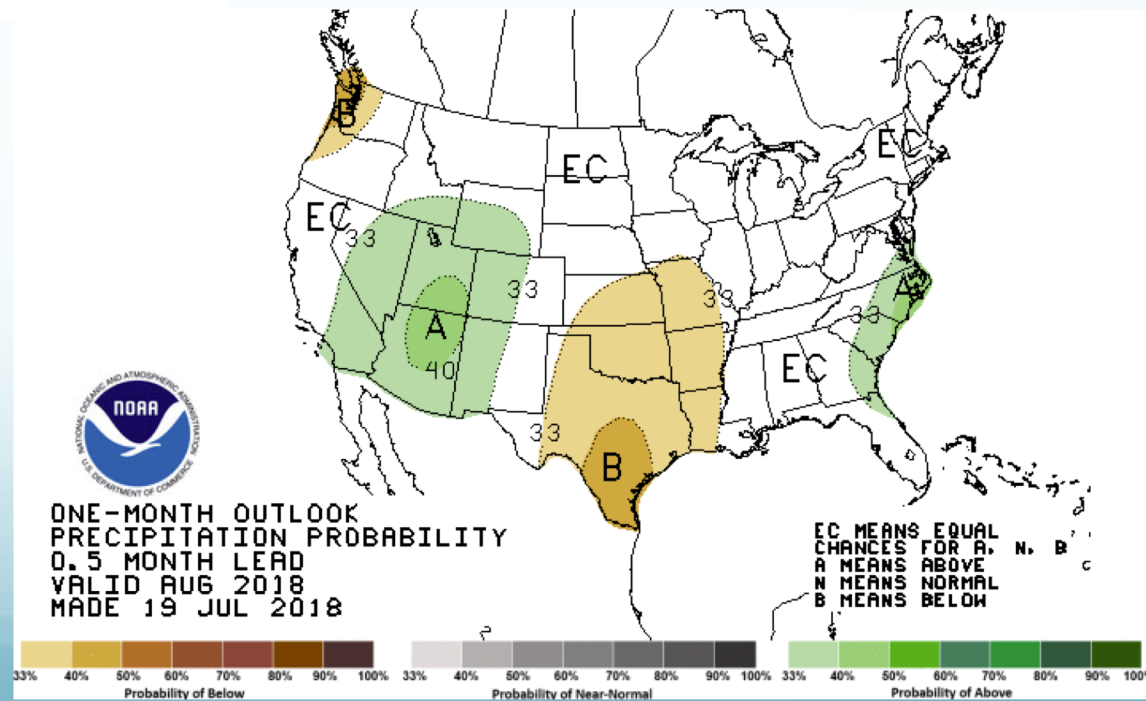
# Precipitation Outlooks

August 5-9:

Increased chance of above-normal precipitation for much of the Northeast (left).



August:  
Equal chances of above-, below-, or near-normal precipitation for the Noartheast (right).





## Impacts

- Seabrook, Hampton Falls, NH asked to reduce or stop outdoor watering
- Portsmouth, NH asked to conserve water
- Cranberry growers in southeast MA need more rain
- Berry farm in Charlotte, VT expected to lose a large portion of their crop; one pond exhausted
- Poor strawberry harvest in northern ME
- Poor first hay harvest in Aroostook County, ME
- St. Lawrence County, NY warned of fire risk
- Trout stressed in northwest VT due to low water levels & warm temperatures



## 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](mailto:NRCC@CORNELL.EDU)

# Contact Information

- [nrcc@cornell.edu](mailto:nrcc@cornell.edu)
- 607-255-1751

## Upcoming Webinar

- Thursday August 30 at 9:30am
- Thursday September 27 at 9:30am

[www.nrcc.cornell.edu](http://www.nrcc.cornell.edu)