

# May Conditions & Northeast DEWS Discussion

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Northeast Regional Climate Center

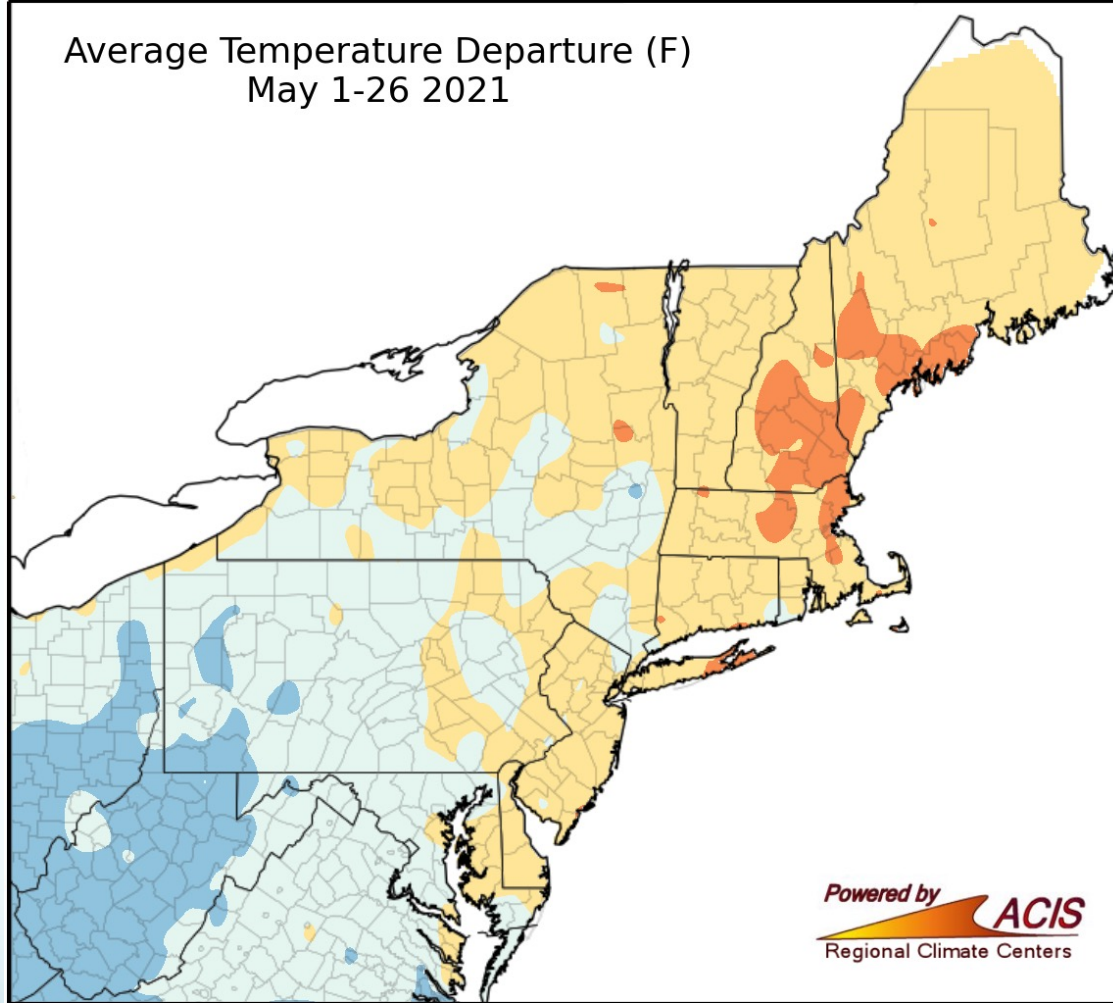


Northeast Regional  
Climate Center



# May Temperatures

Average Temperature Departure (F)  
May 1-26 2021



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Regional Climate Centers



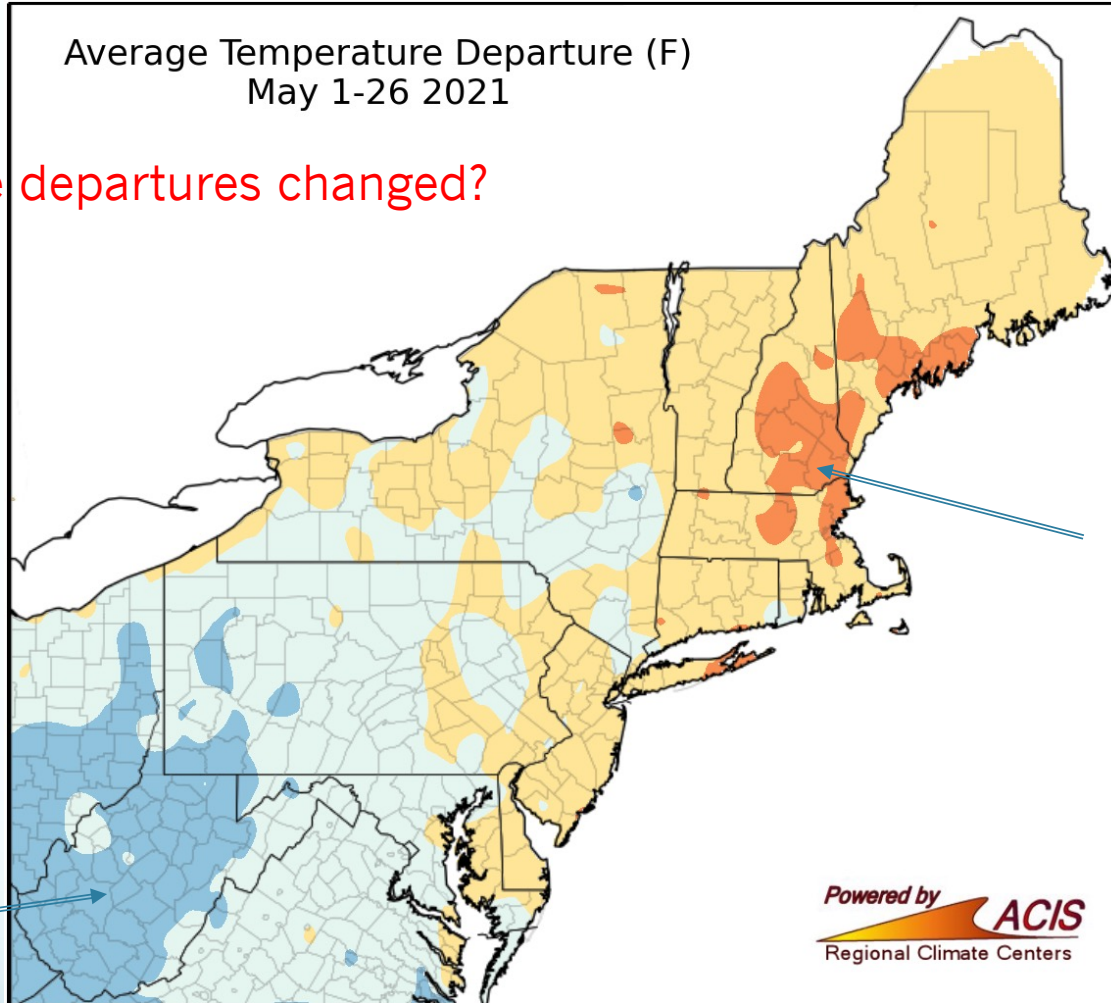
From 4°F below normal to 4°F above normal



# May Temperatures

Average Temperature Departure (F)  
May 1-26 2021

How have departures changed?



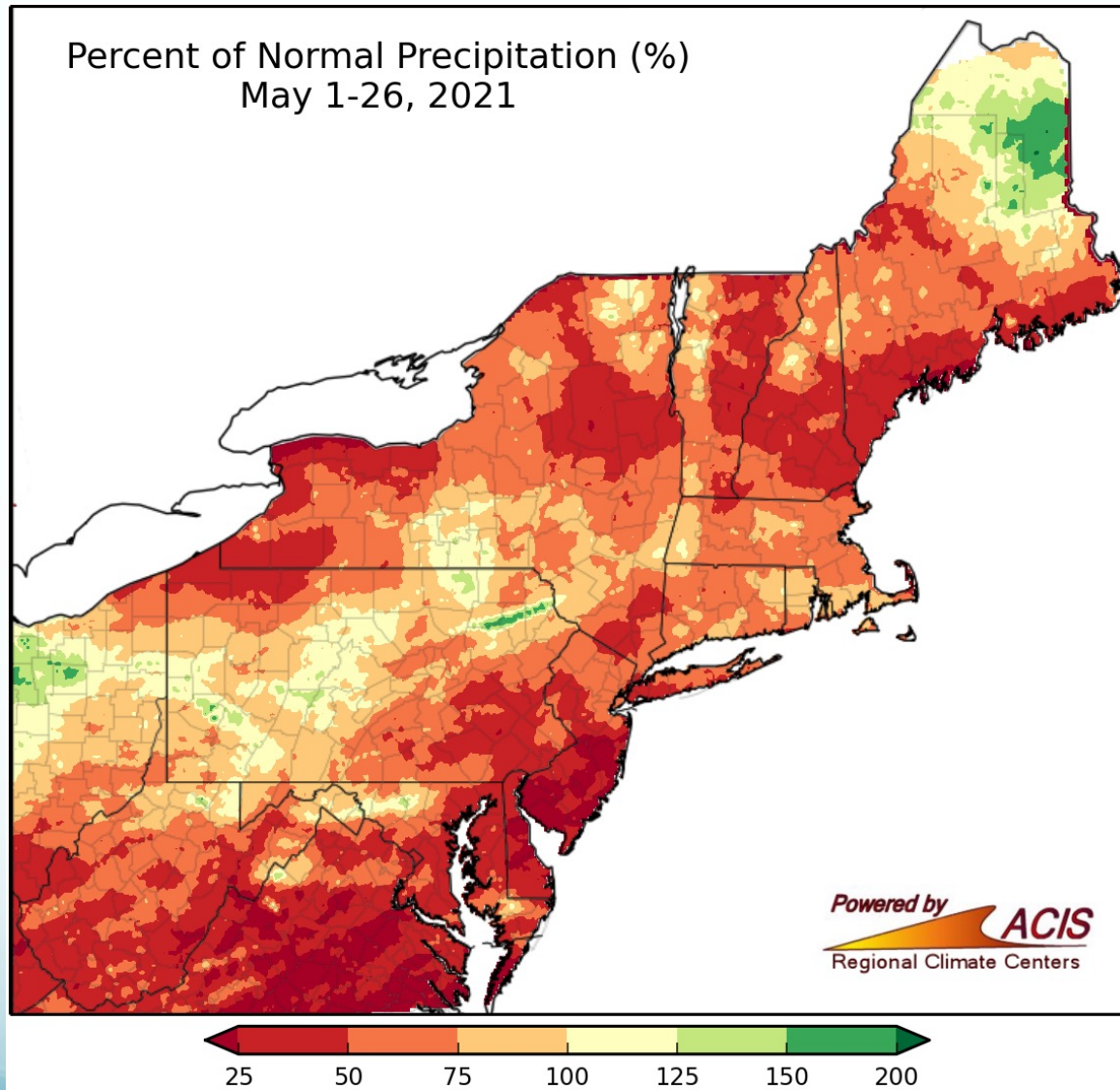
Charleston  
1981-2010: 63.1  
1991-2020: 64.1  
2021: 61.2

Concord  
1981-2010: 55.0  
1991-2020: 56.0  
2021: 57.7



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

# May Precipitation



From less than 25% of normal to more than 150% of normal

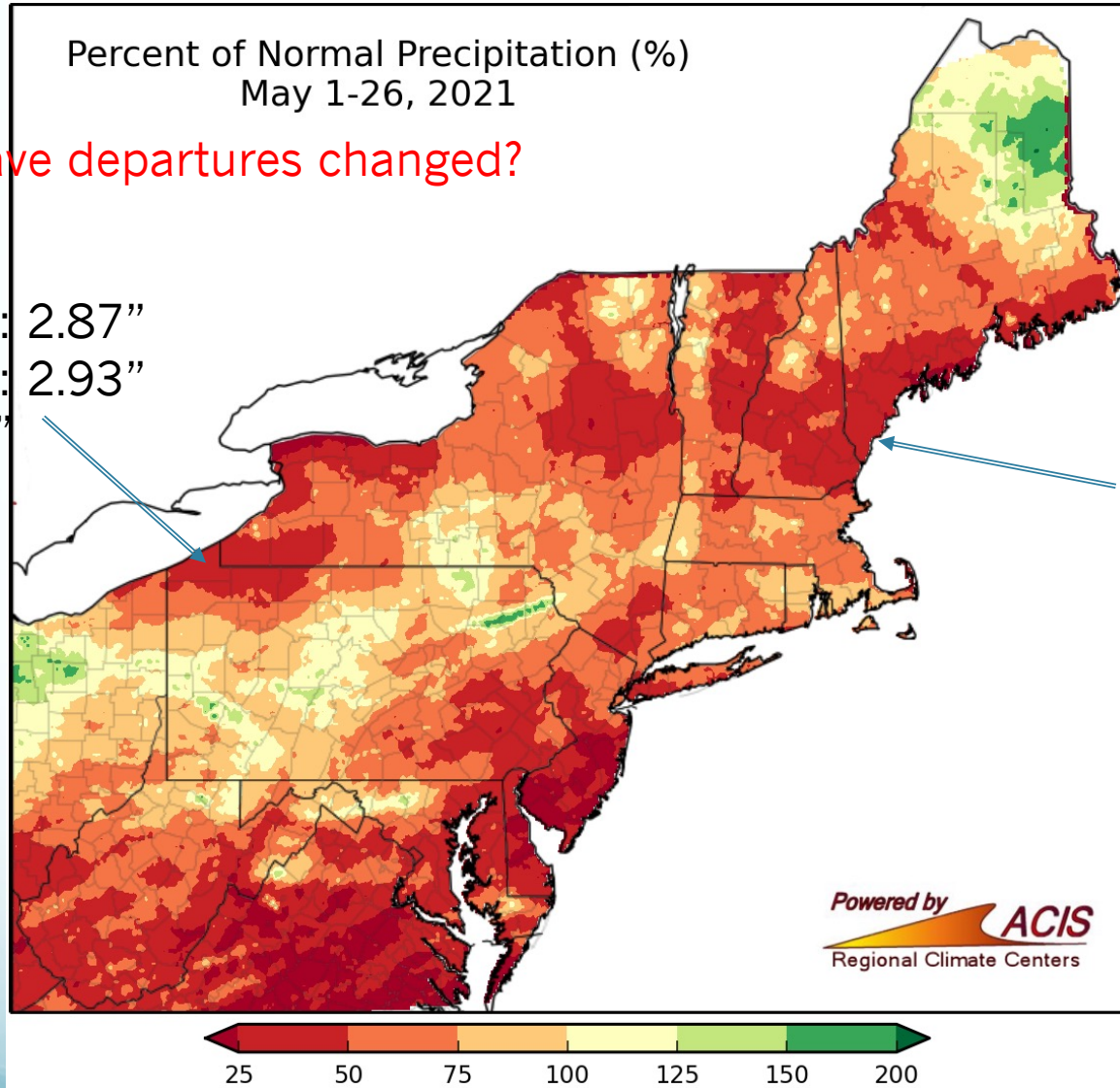
# May Precipitation

Percent of Normal Precipitation (%)  
May 1-26, 2021

How have departures changed?

Erie  
1981-2010: 2.87"  
1991-2020: 2.93"  
2021: 0.86"

Portland  
1981-2010: 3.37"  
1991-2020: 3.06"  
2021: 0.60"



From less than 25% of normal to more than 150% of normal



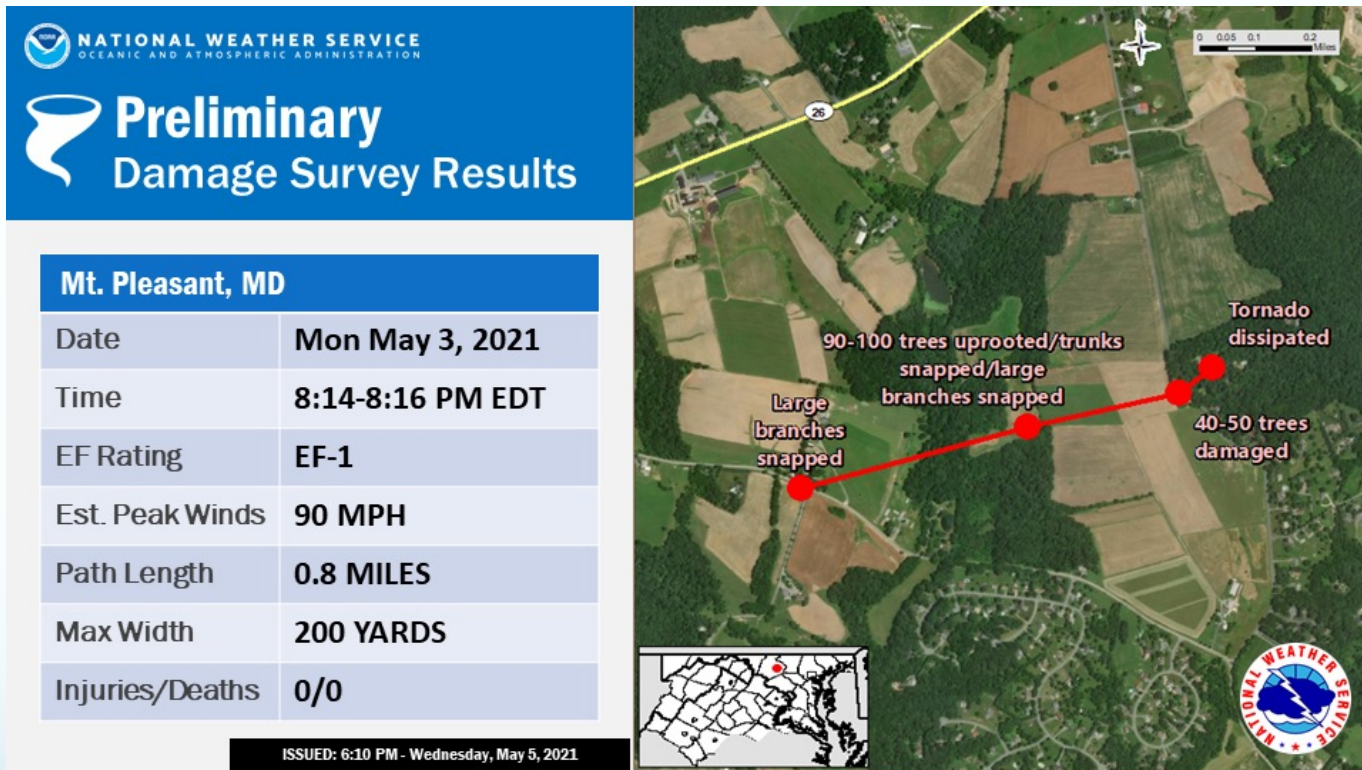
# Use of New Normals

## Weekly HDD Summary for New York

*New York State Heating Degree Day Information: Forecast, Weekly, and Cumulative*

City	05-21 through 05-26			Week Ending 05-19			10-01 through 05-19		
	2021 Forecast	2020	Normal	2021	2020	Normal	2021	2020	Normal
Albany	7	4	29	45	43	44	6361	5721	6138
Binghamton	6	14	46	45	65	66	6368	6586	6749
Buffalo	2	0	37	39	61	56	5620	5918	6210
Glens Falls	6	18	43	53	74	62	6667	6874	7012
Massena	14	13	45	31	98	66	M	M	7565
NYC	2	17	14	2	29	23	3931	4164	4320
Rochester	7	7	34	36	74	51	5817	6137	6031
Syracuse	4	4	35	28	60	53	5672	6037	6321
Watertown	14	15	50	60	90	72	M	6873	7077

# May 3-4 Severe Weather



- Six tornadoes touched down in the region, damaging buildings and snapping/uprooting at least 150 trees
- As much as 5 inches of rain caused flash flooding in northeastern Pennsylvania.



# Late May Heat

## Daily Records Broken for Max Temps

### May 20

Buffalo 90  
Syracuse 92  
Erie 88  
Burlington 92

### May 22

Bridgeport 88  
Dulles 89  
Atlantic City 94  
JFK 94

### May 23

Bridgeport 90  
Dulles 92  
Wilmington 94  
Atlantic City 94  
JFK 92

## Daily Records Broken for Min Temps

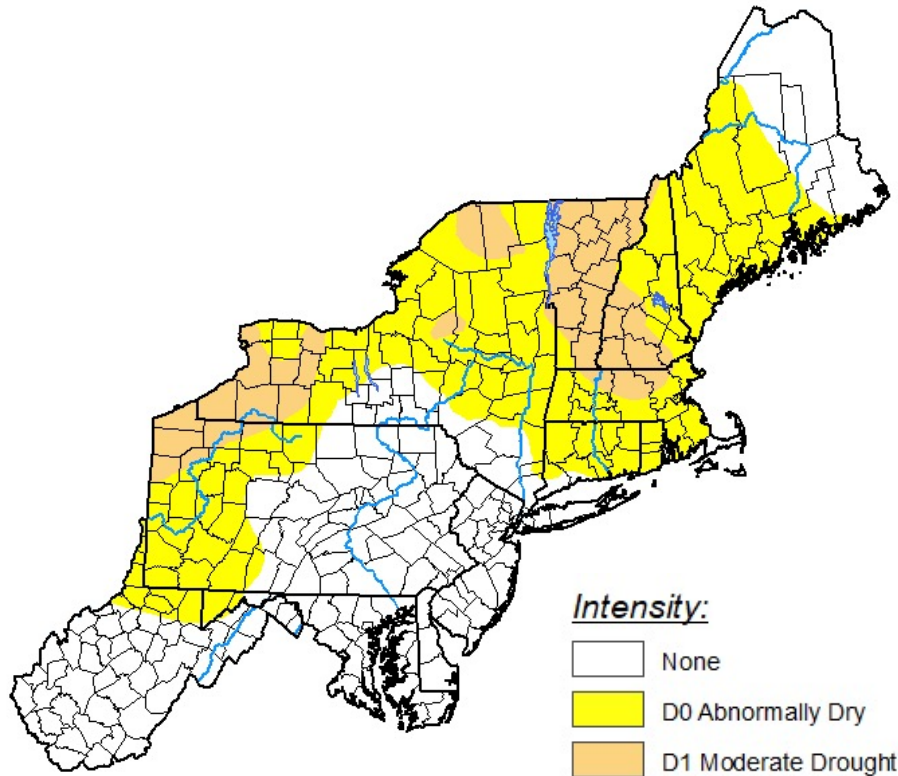
### May 23

Washington 74  
Wilmington 72  
Baltimore 70  
Newark 68  
Islip 65  
JFK 68  
Harrisburg 70  
Philadelphia 74

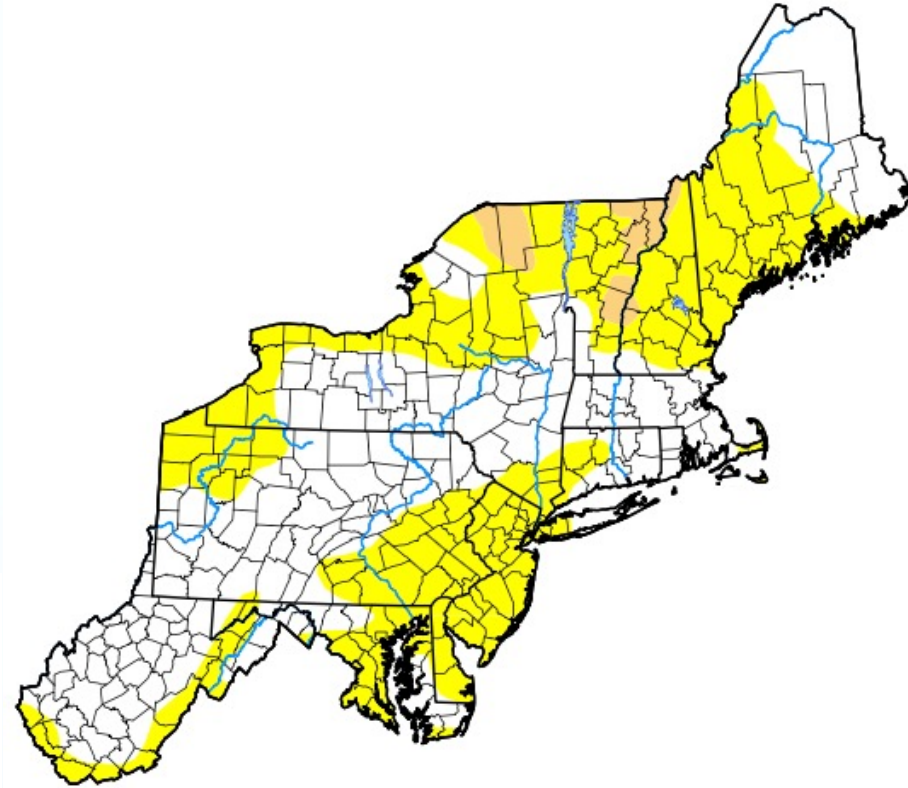




# Drought Monitor



April 27:  
14% of the region was in a moderate drought  
41% was abnormally dry



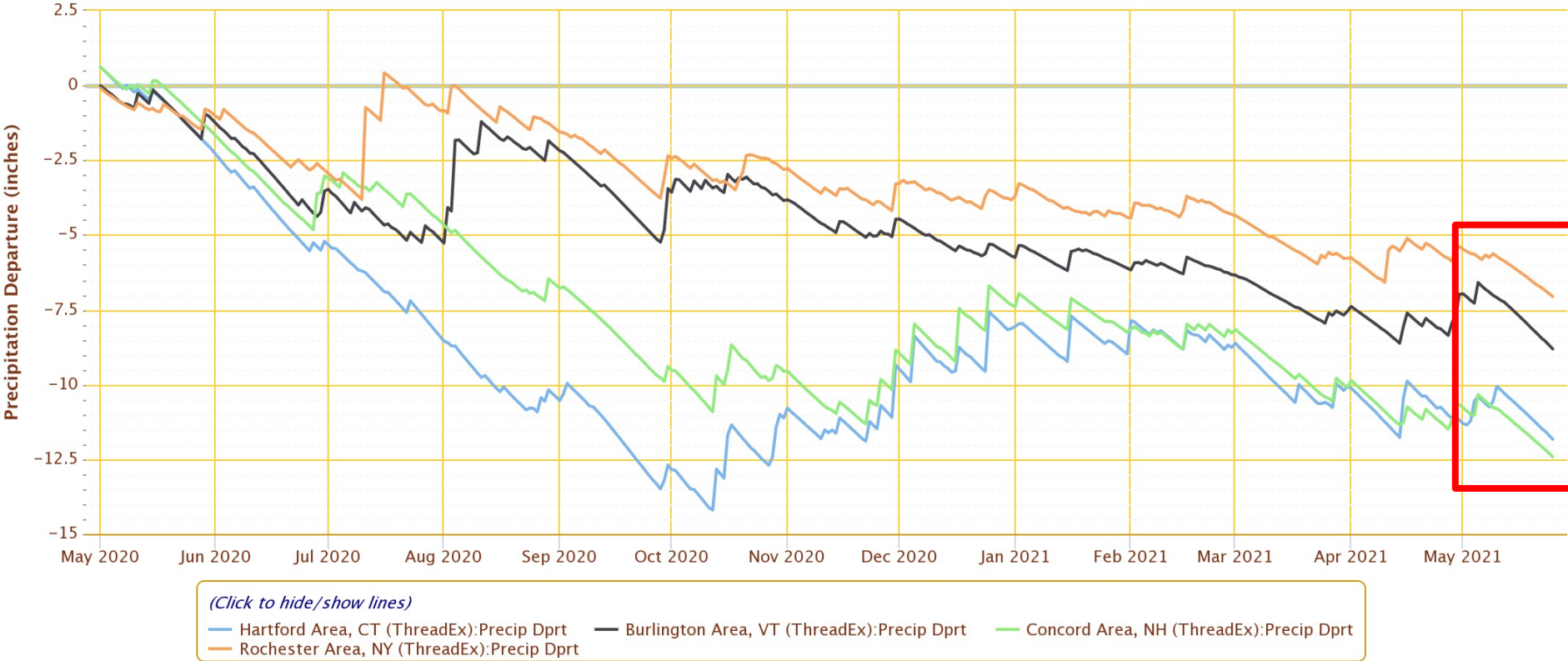
May 25:  
3% of the region was in a moderate or severe drought  
45% was abnormally dry



# Precipitation

### Accumulated Precipitation Departure from Normal

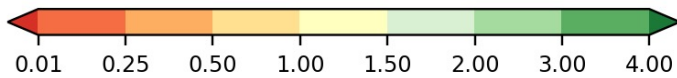
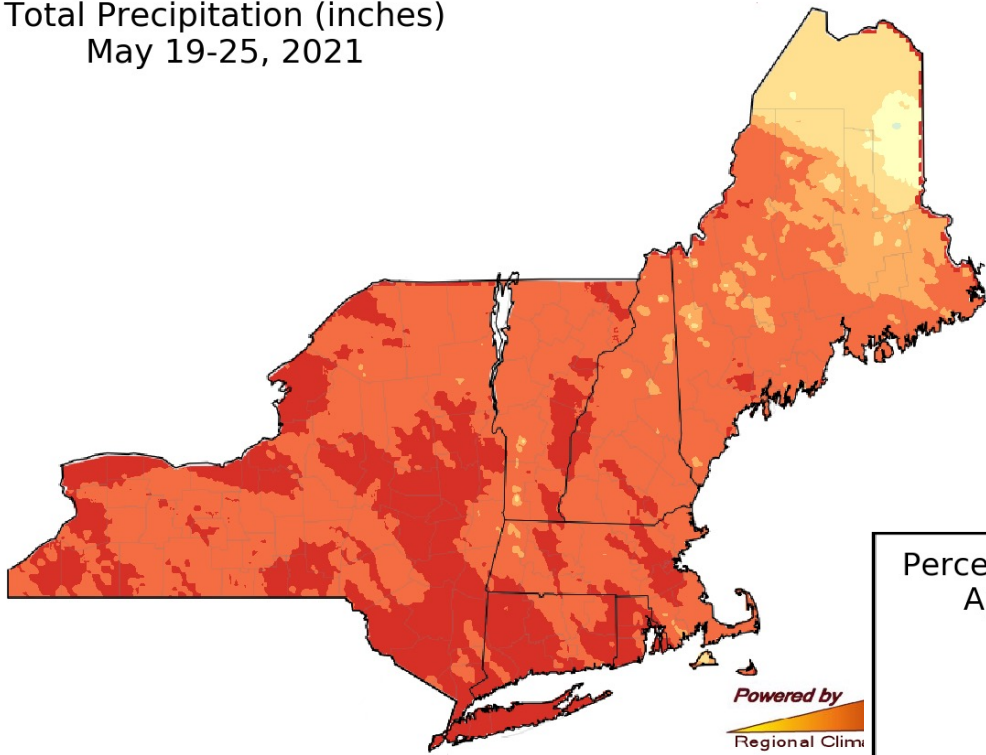
Green/black diamonds represent subsequent/missing values



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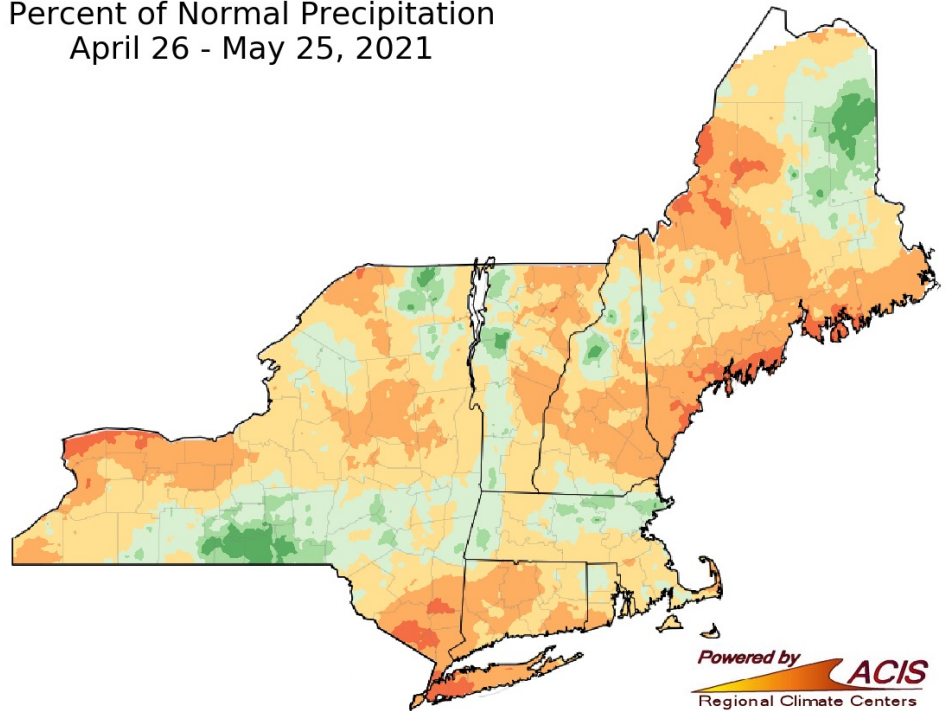


Total Precipitation (inches)  
May 19-25, 2021

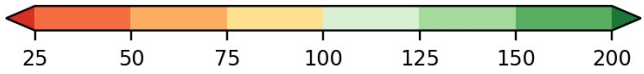
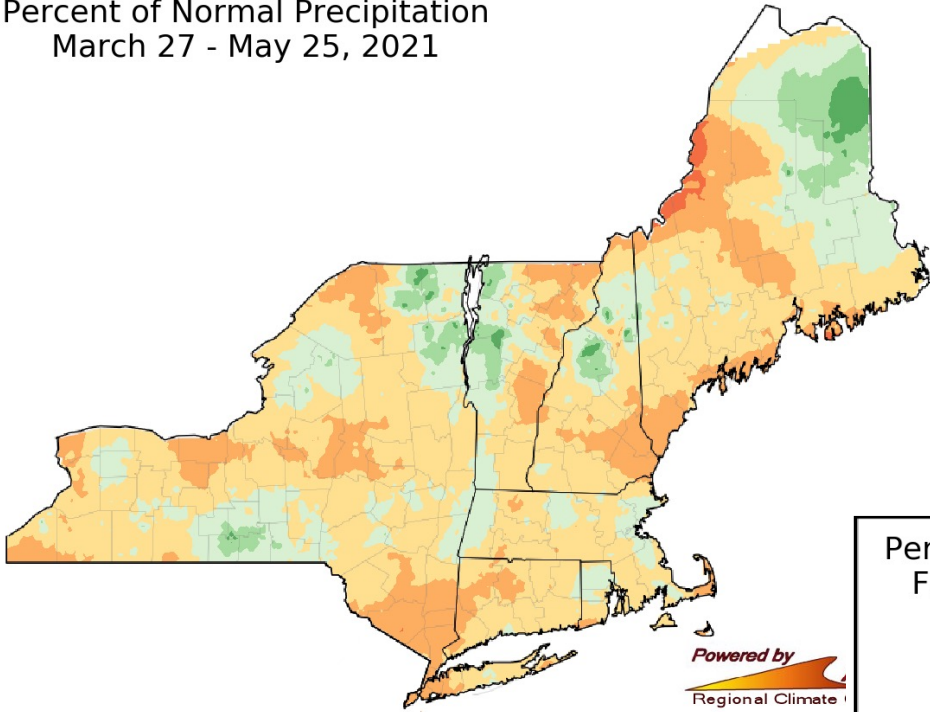


# Precipitation

Percent of Normal Precipitation  
April 26 - May 25, 2021

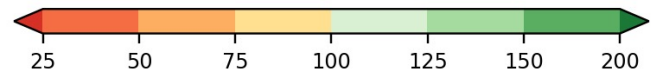
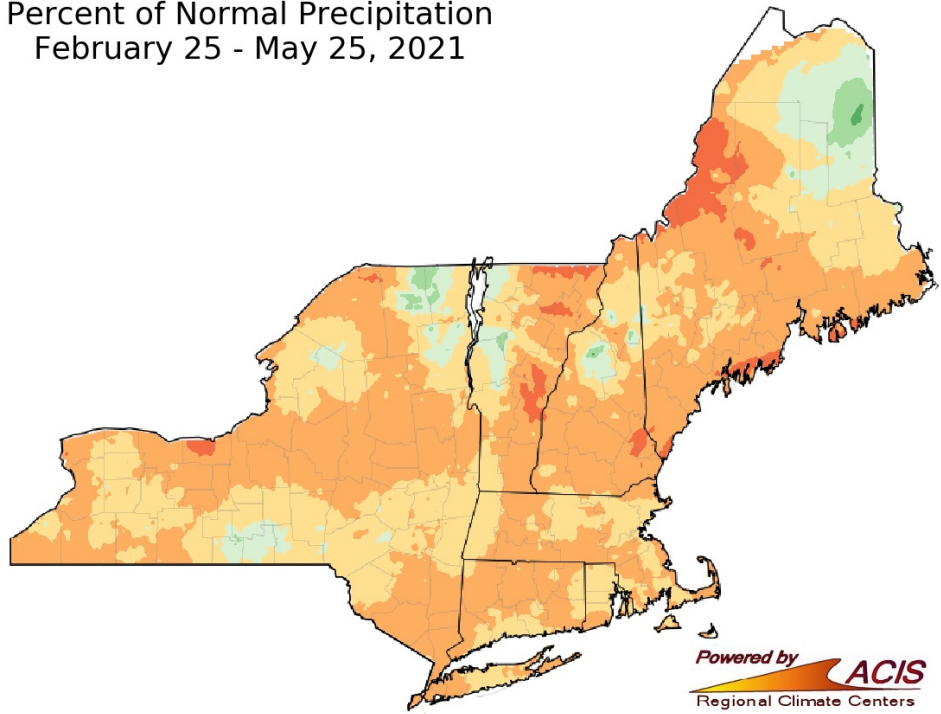


Percent of Normal Precipitation  
March 27 - May 25, 2021

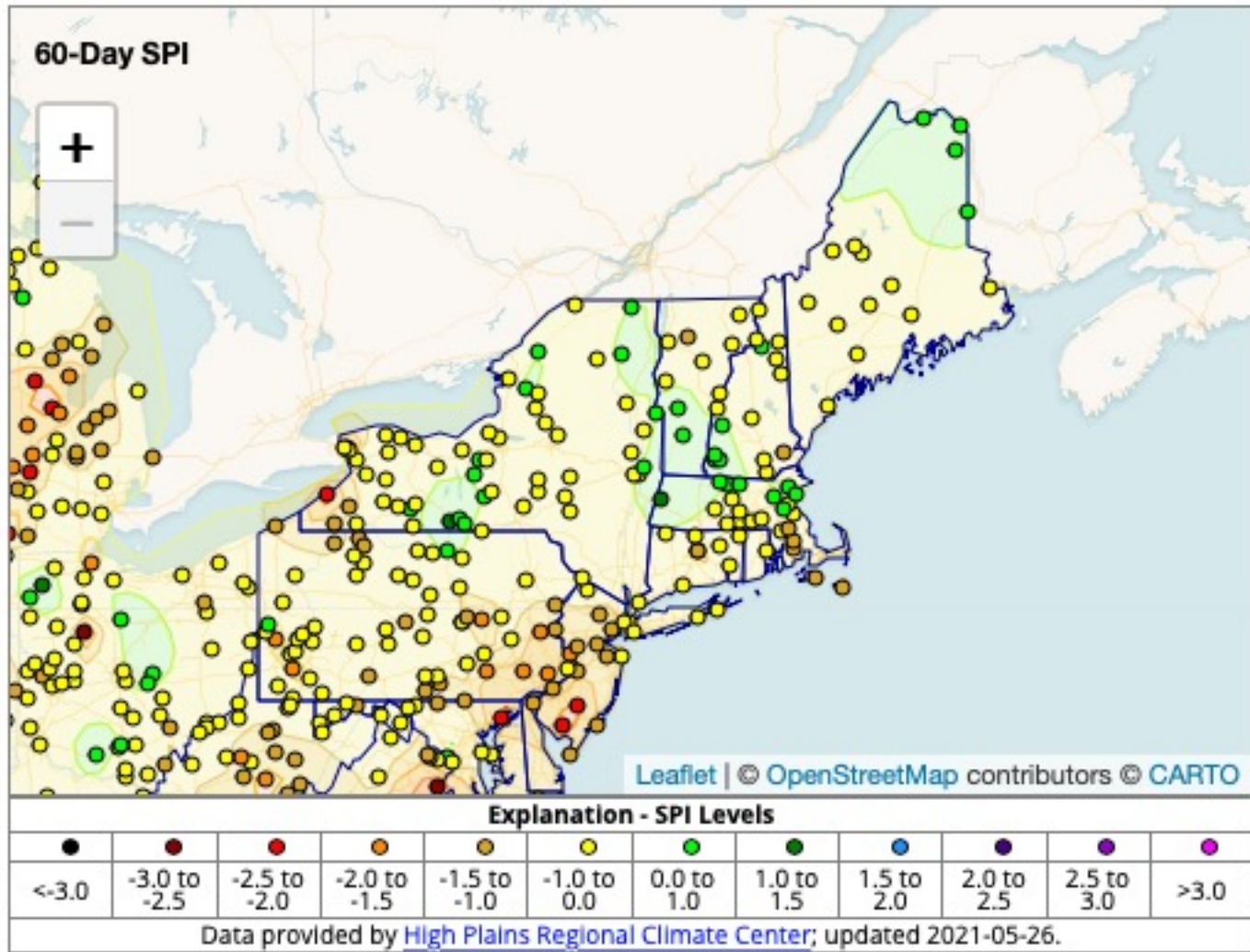


# Precipitation

Percent of Normal Precipitation  
February 25 - May 25, 2021

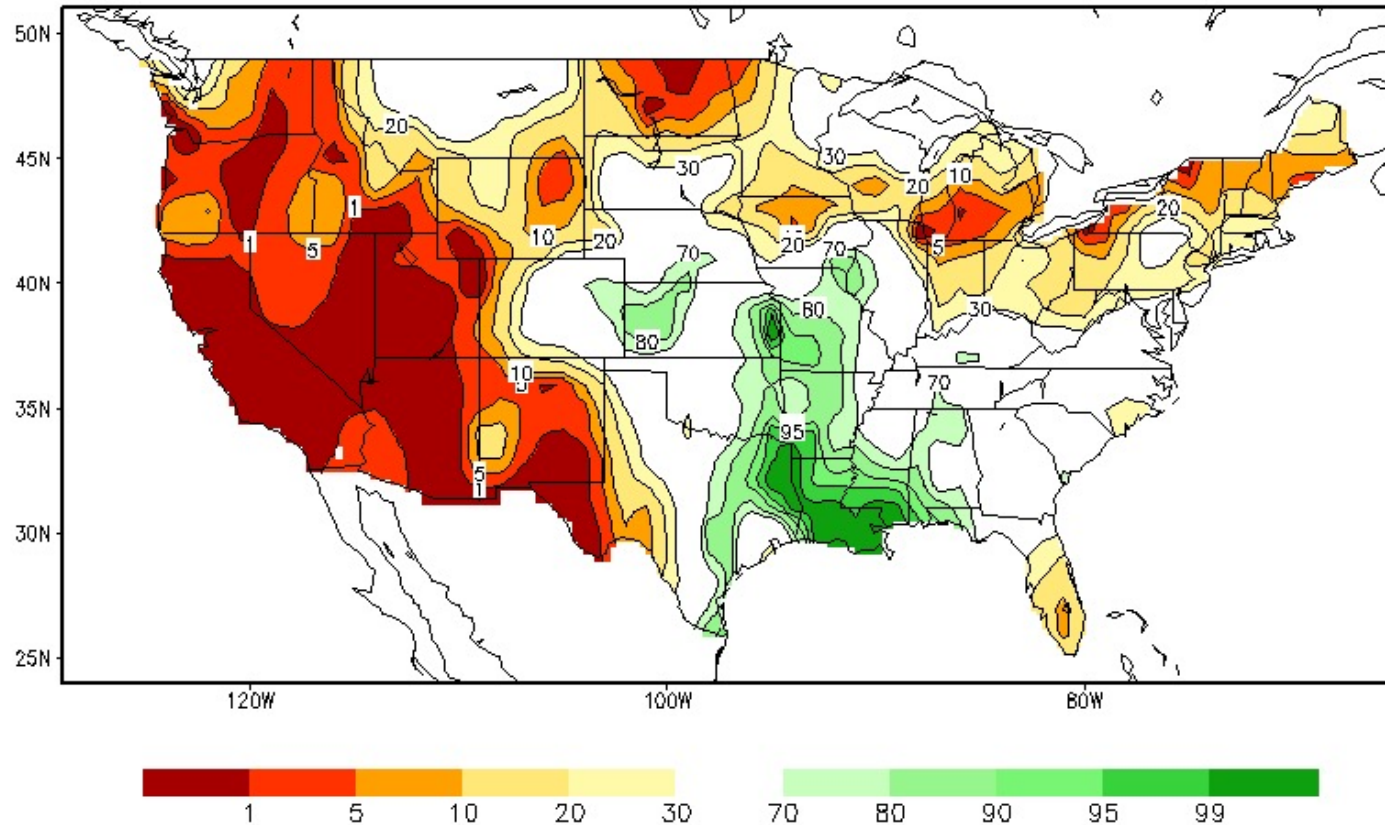


# Standardized Precip Index

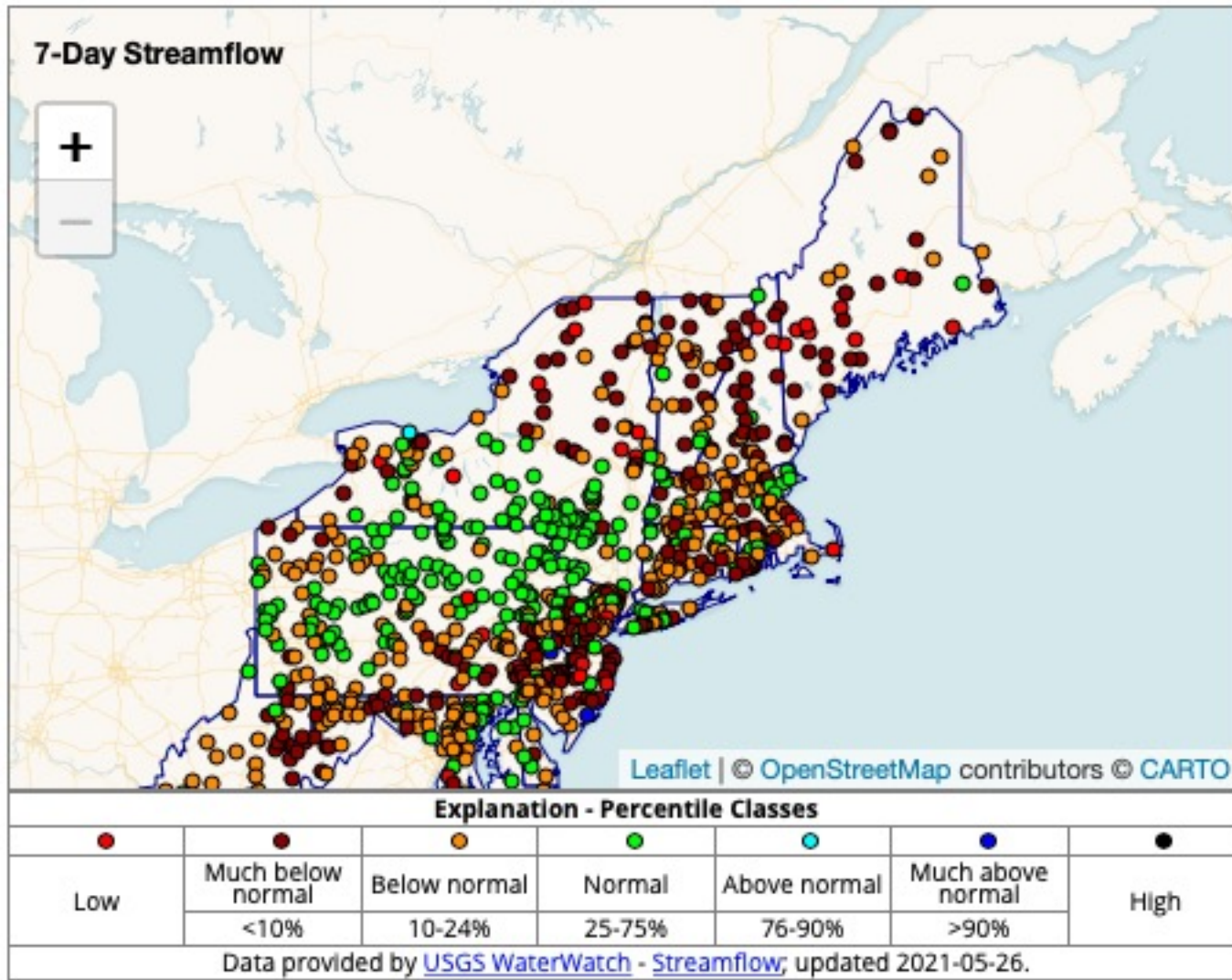


# Soil Moisture

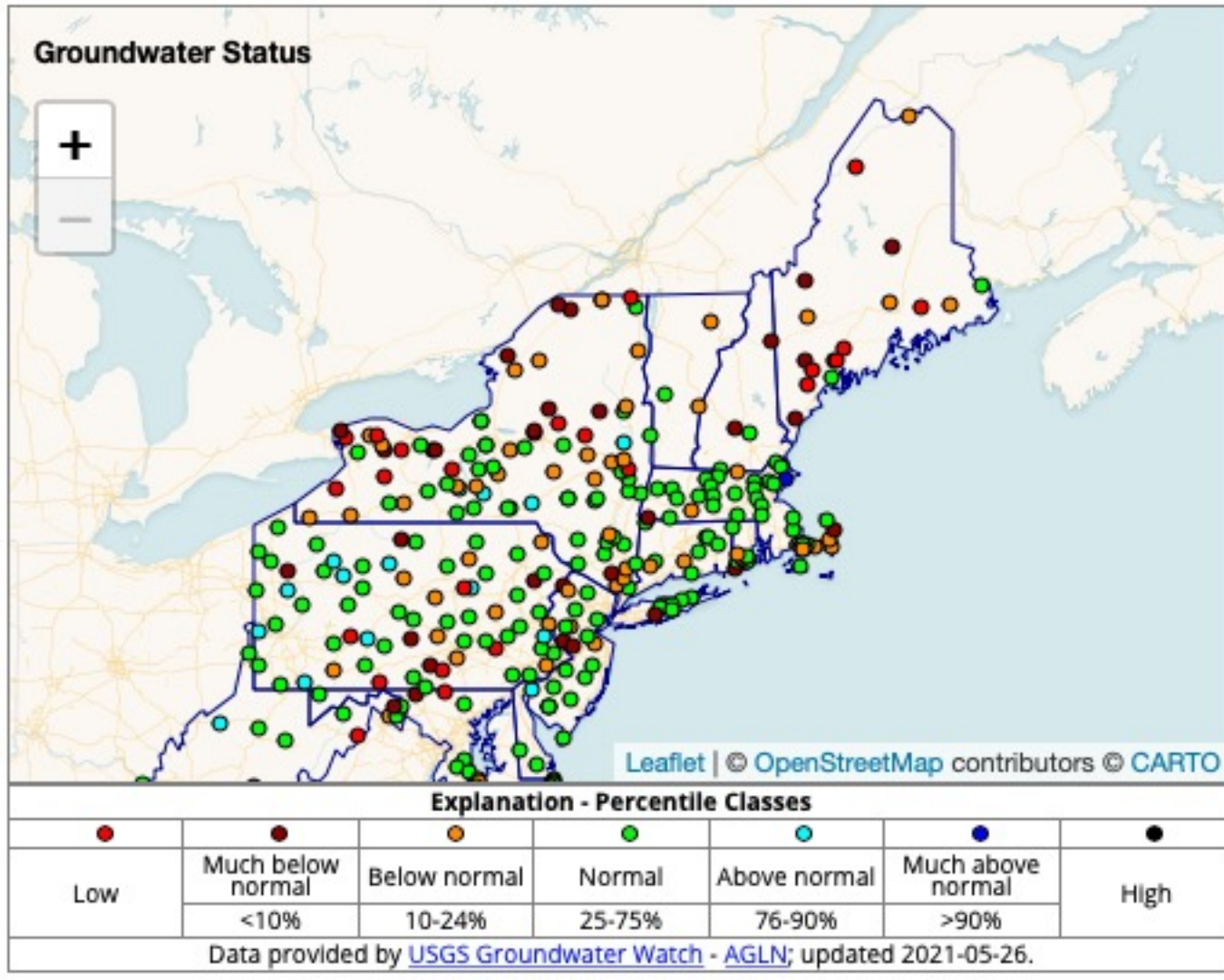
Calculated Soil Moisture Ranking Percentile  
MAY 25, 2021



# Streamflow

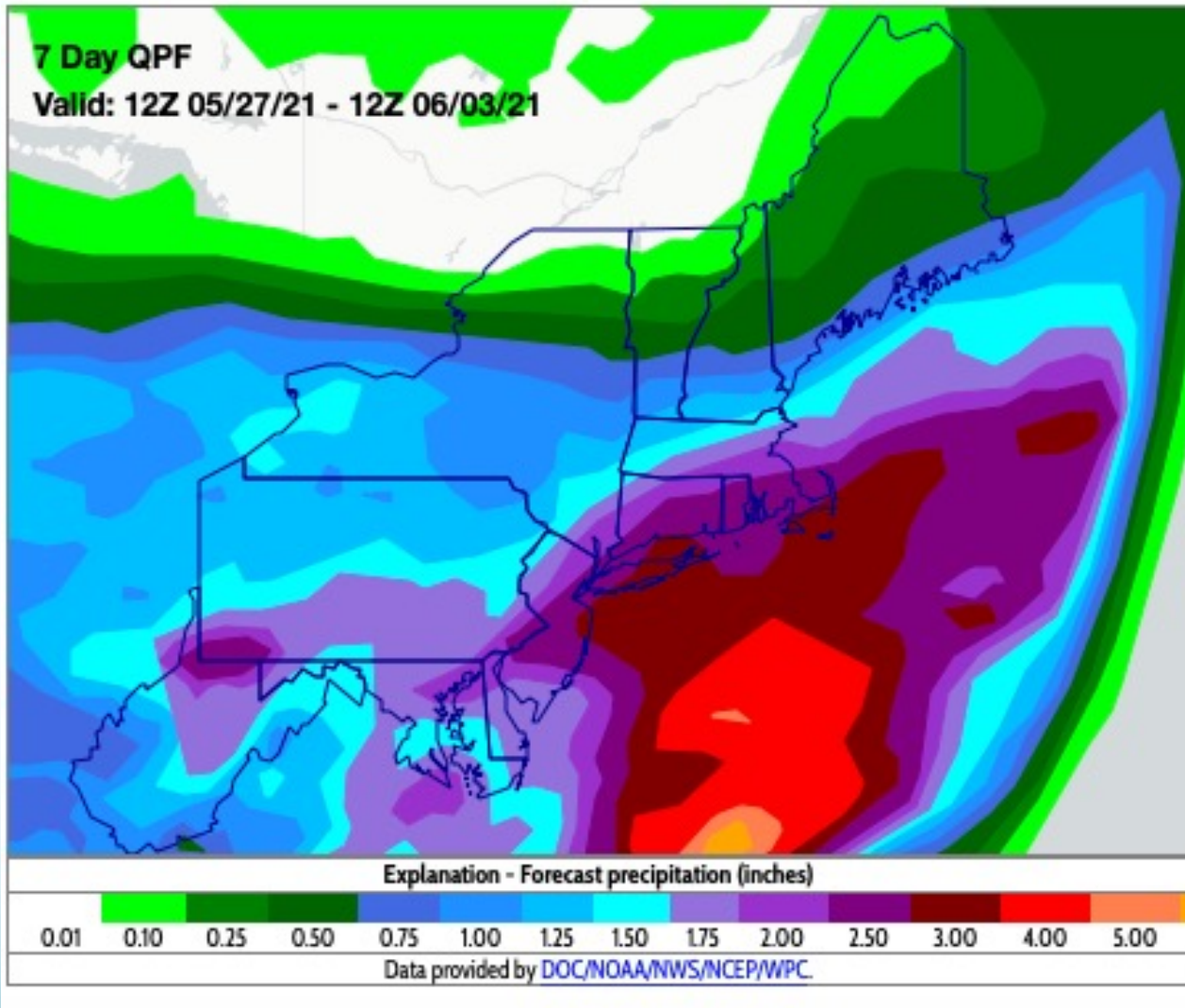


# Groundwater

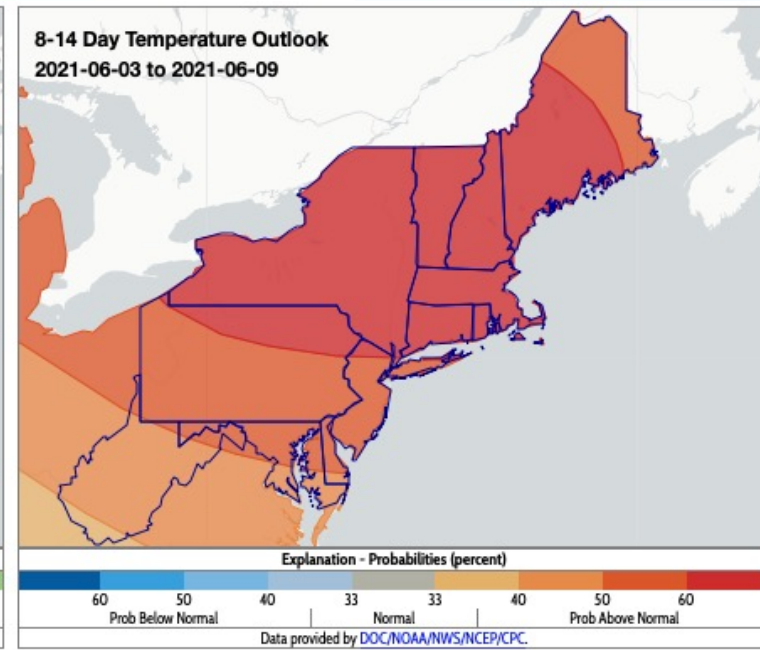
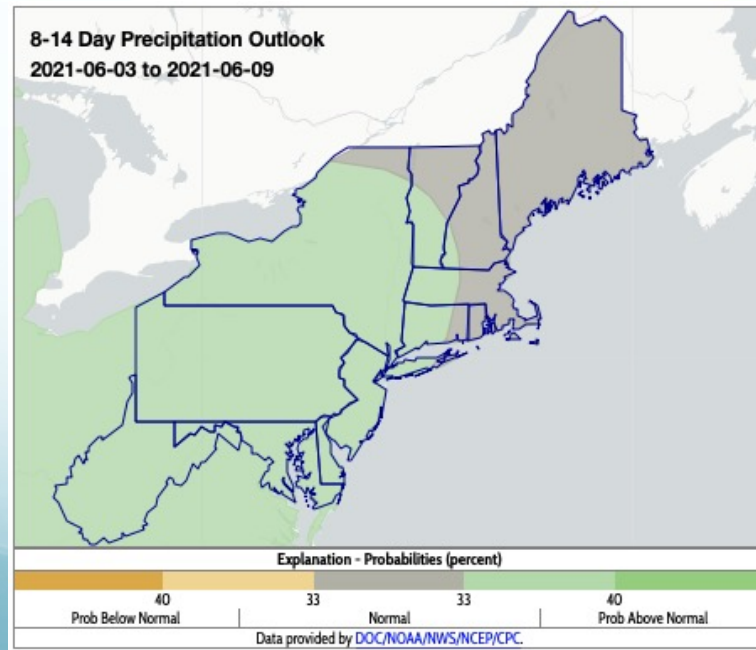
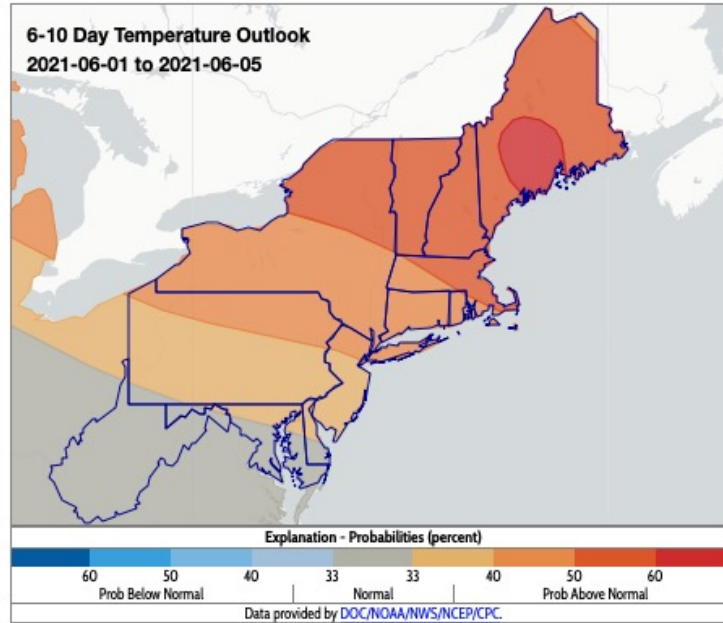
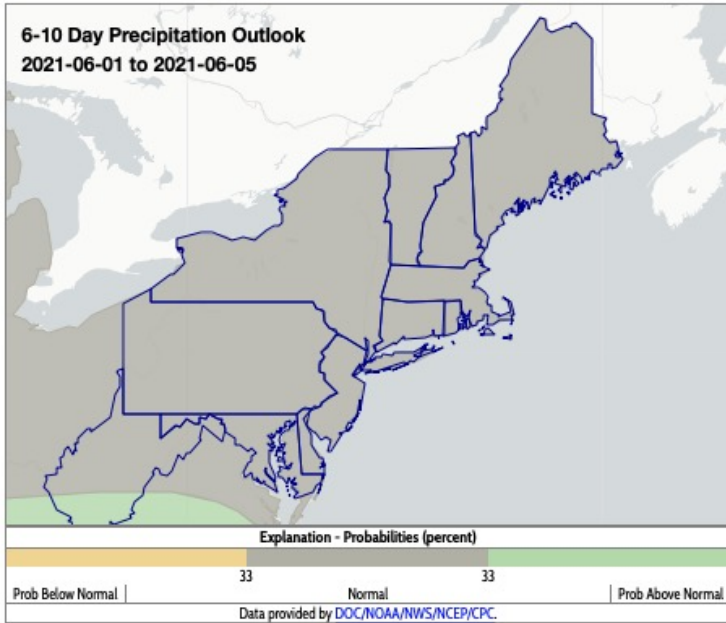




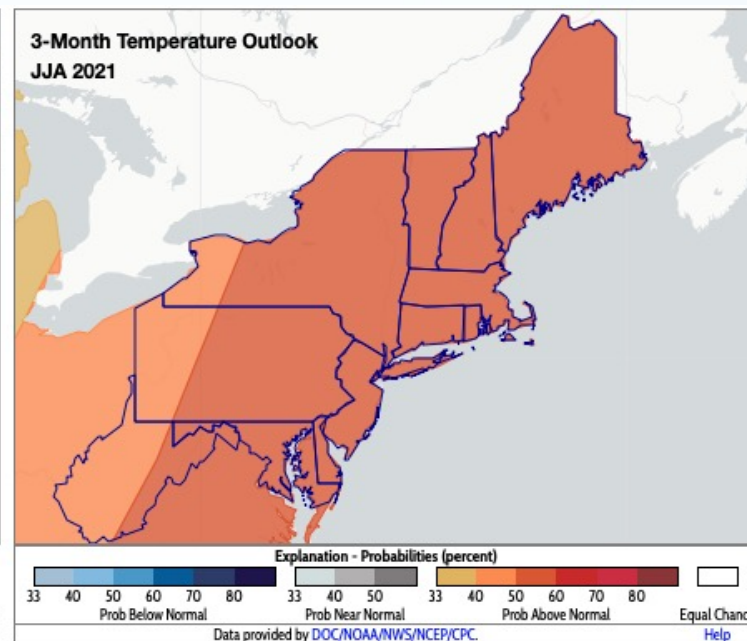
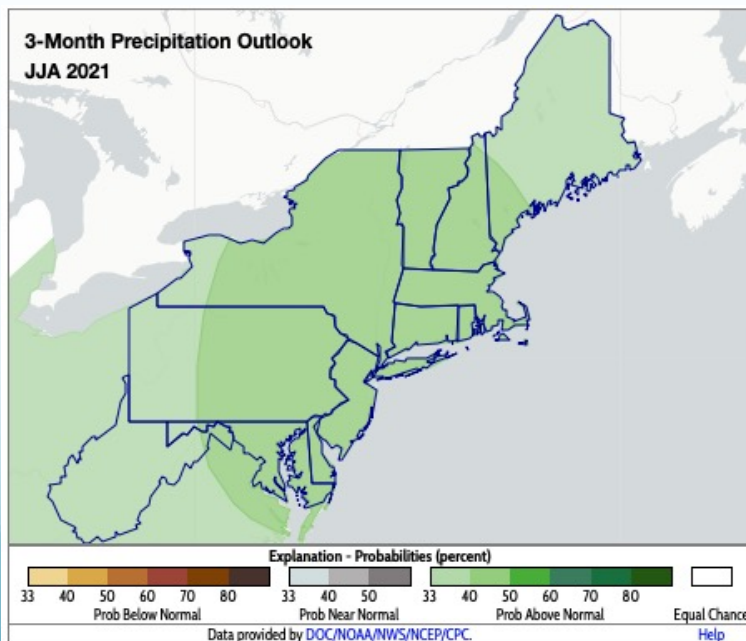
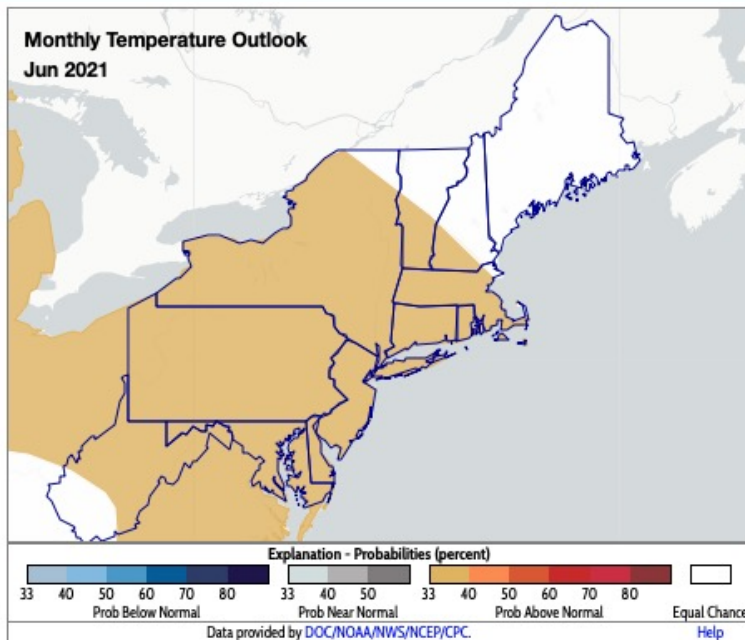
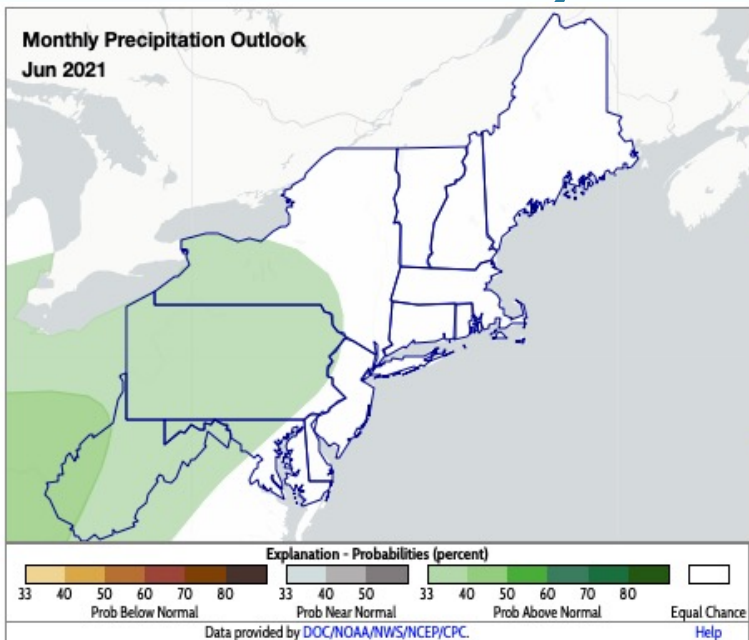
# Precipitation Forecast



# Short-term Outlooks



# Monthly & 3-Month Outlooks



# Contact Information

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

## Upcoming Webinars

- Tuesday, June 29 at 9:30am
  - Ocean climate series 1 of 2
- Thursday, July 29 at 9:30am
  - Ocean climate series 2 of 2
- Tuesday, August 31 at 9:30am
  - Atlantic Hurricane Season Outlook

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

