# May Conditions & Northeast DEWS Discussion

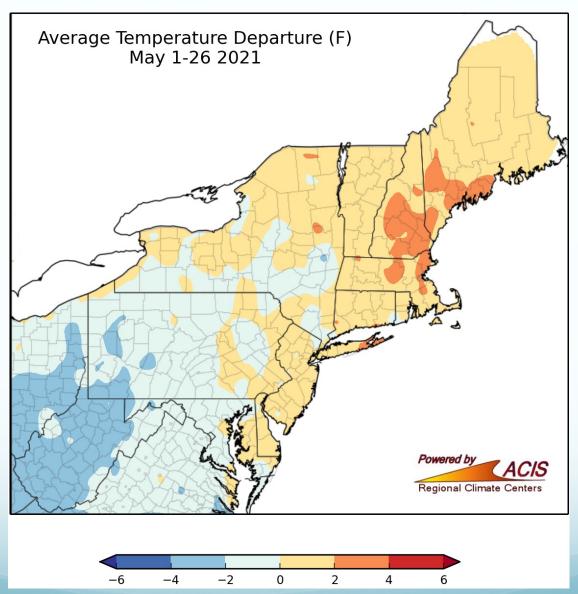
By: Jessica Spaccio, Climatologist Northeast Regional Climate Center







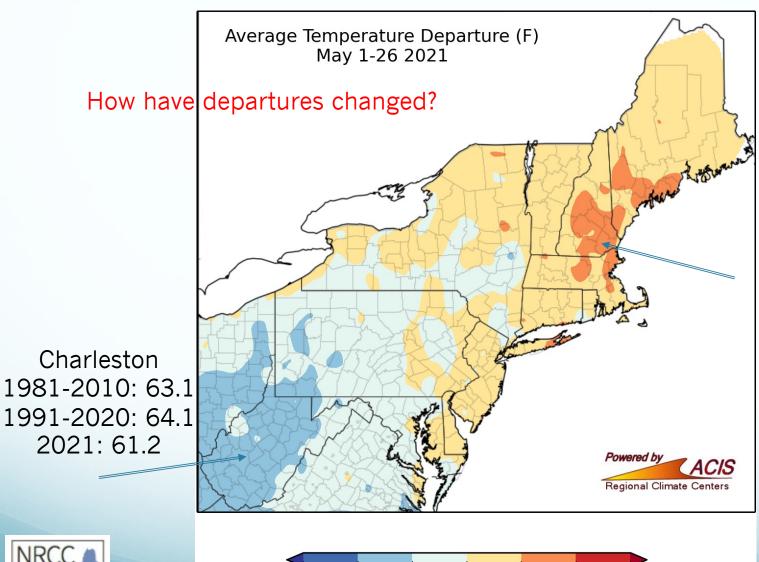
# May Temperatures





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

### May Temperatures

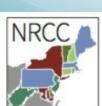


Concord

1981-2010: 55.0

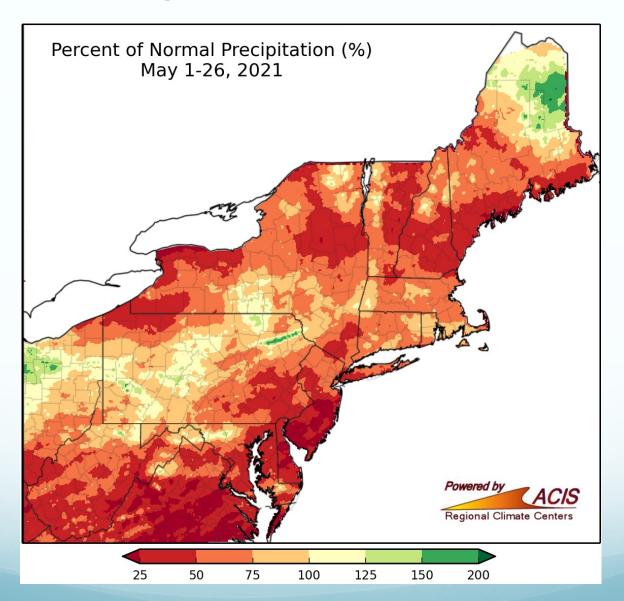
1991-2020: 56.0

2021: 57.7



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

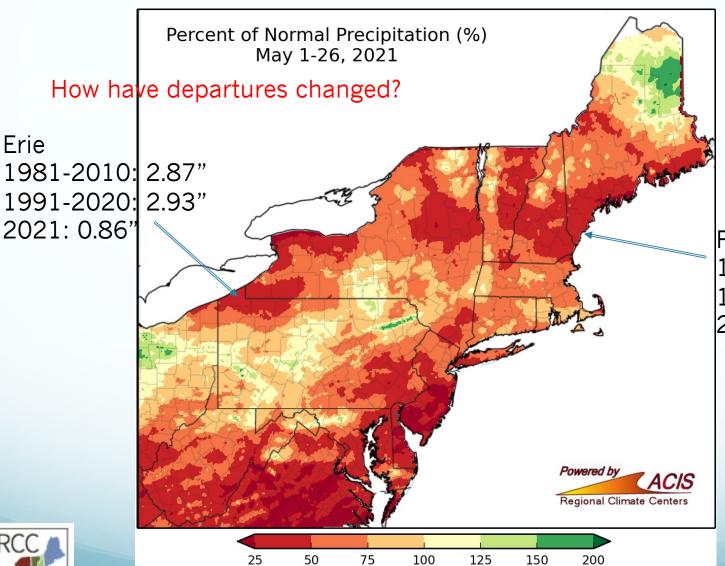
### May Precipitation





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

### May Precipitation



Portland

1981-2010: 3.37" 1991-2020: 3.06"

2021: 0.60"



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

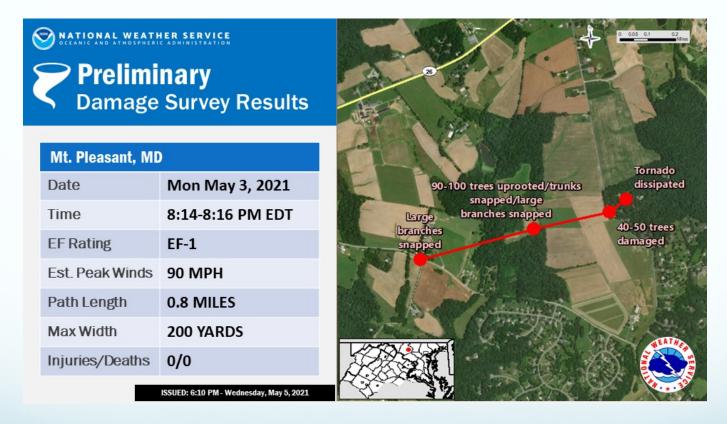
### Use of New Normals

#### **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	М	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	М	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.



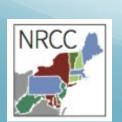
### Late May Heat

#### **Daily Records Broken for Max Temps**

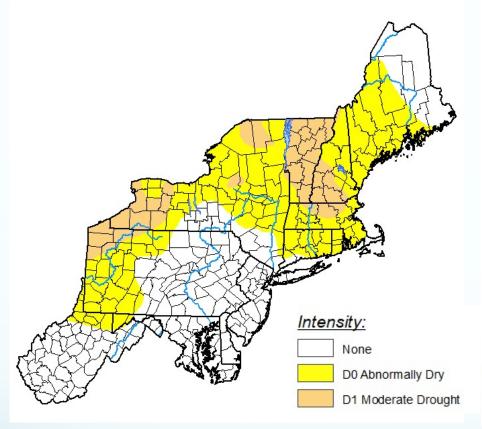
May 20 Buffalo 90 Syracuse 92 Erie 88 Burlington 92 May 22 Bridgeport 88 Dulles 89 Atlantic City 94 JFK 94 May 23
Bridgeport 90
Dulles 92
Wilmington 94
Atlantic City 94
JFK 92

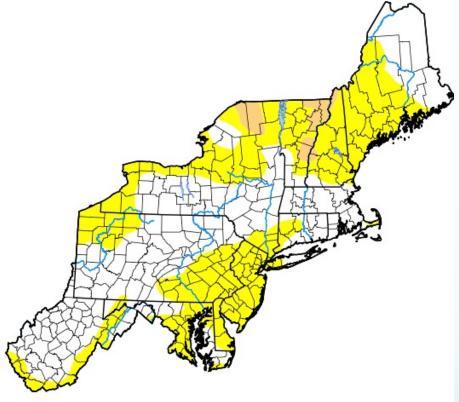
#### **Daily Records Broken for Min Temps**

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

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

# Precipitation

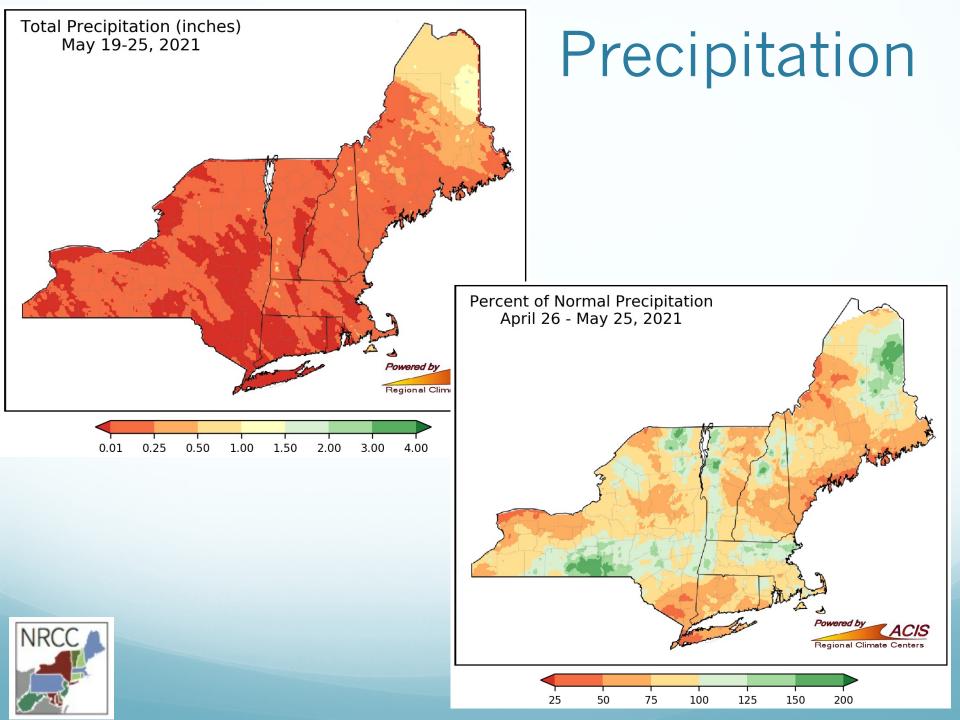
#### Accumulated Precipitation Departure from Normal

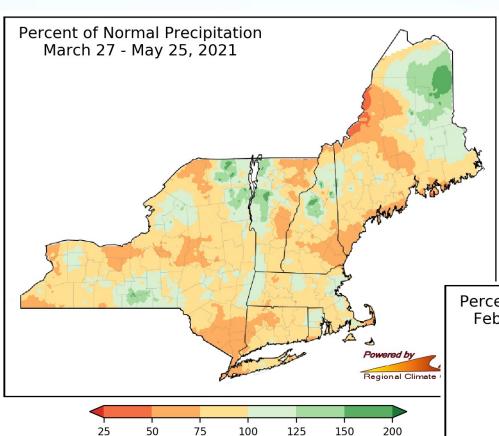
Green/black diamonds represent subsequent/missing values



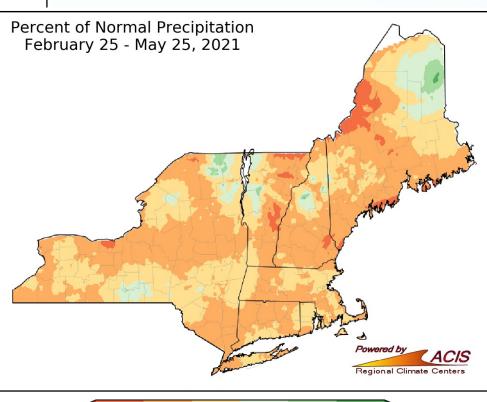


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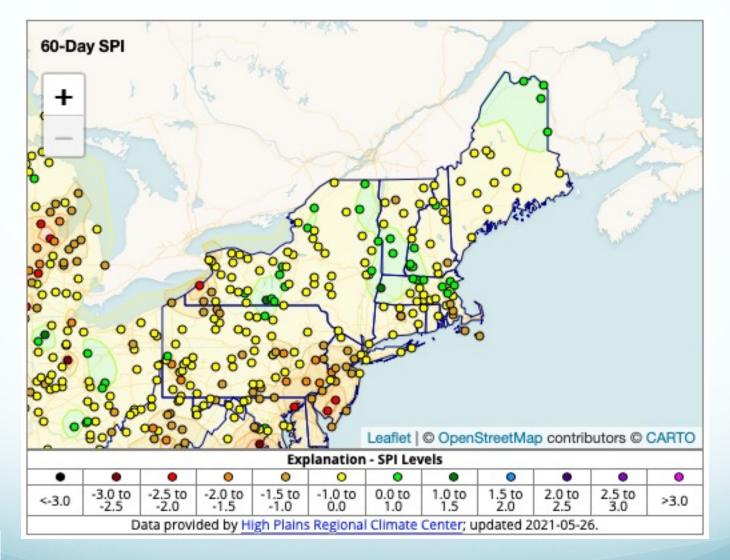


# Precipitation





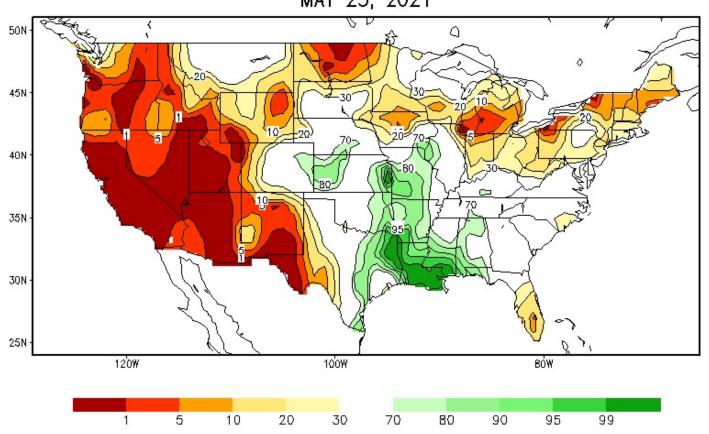
### Standardized Precip Index





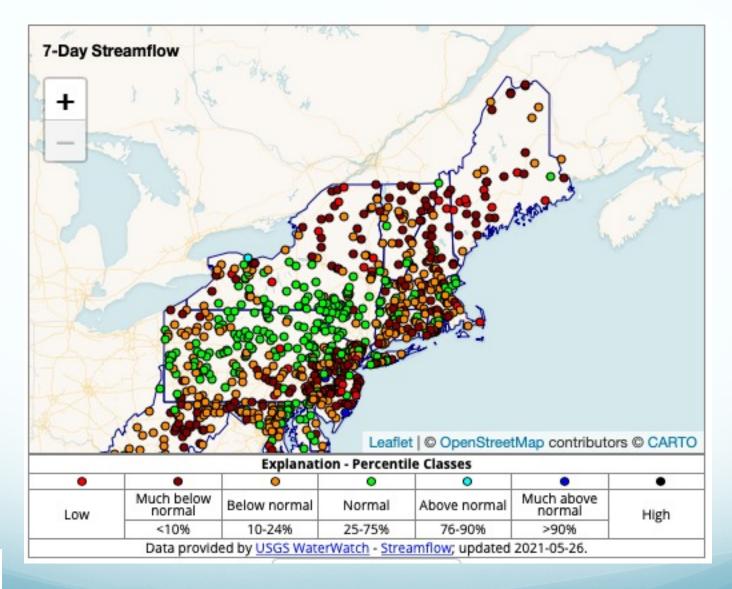
### Soil Moisture

Calculated Soil Moisture Ranking Percentile MAY 25, 2021



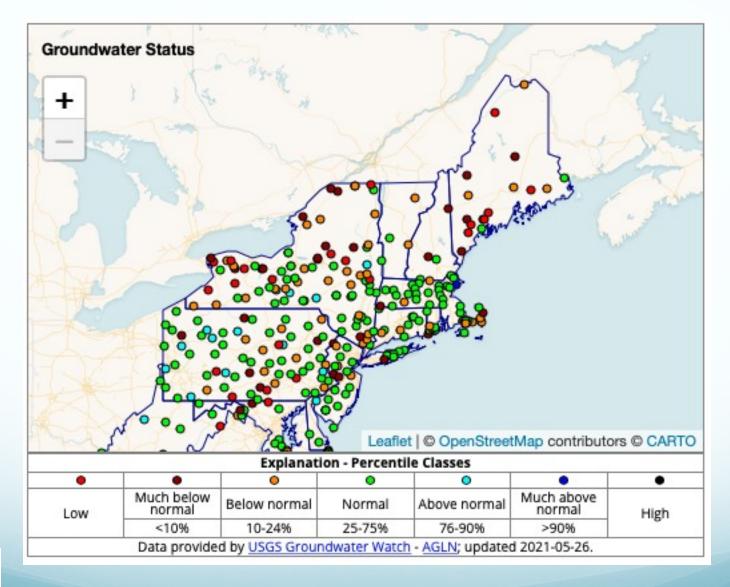


### Streamflow



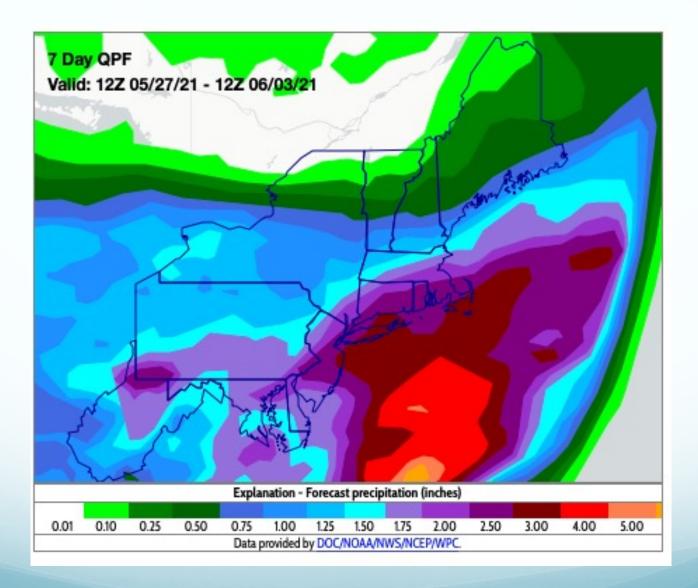


### Groundwater



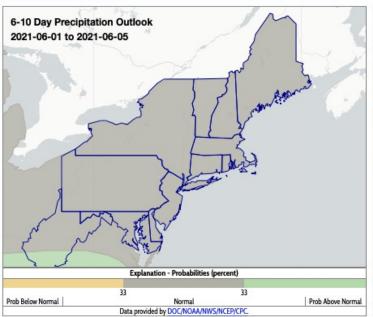


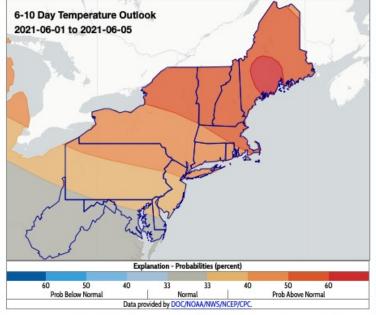
### Precipitation Forecast

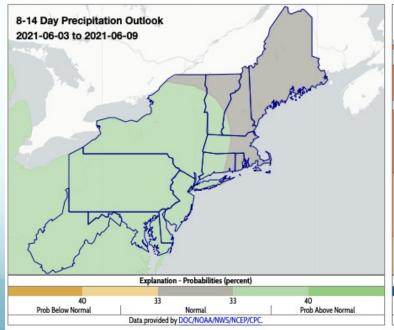


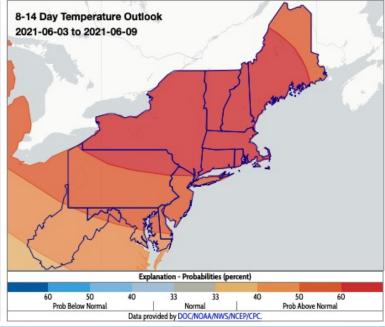


# Short-term Outlooks



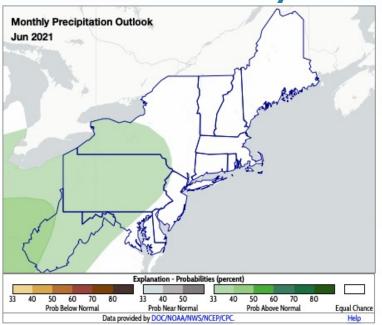


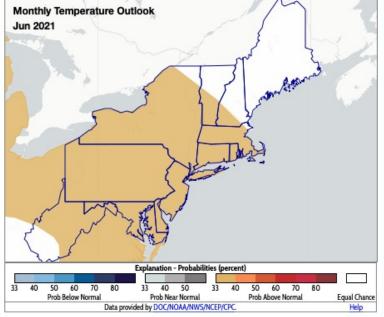


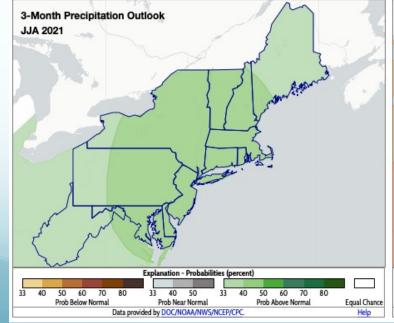


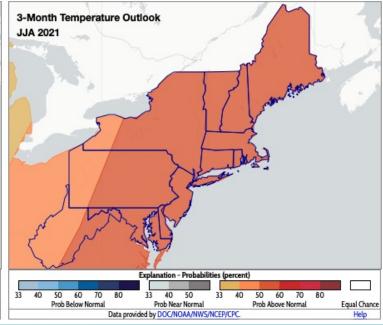


### Monthly & 3-Month Outlooks









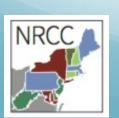


### **Contact Information**

nrcc@cornell.edu

# **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



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