July Recap & Northeast DEWS Discussion

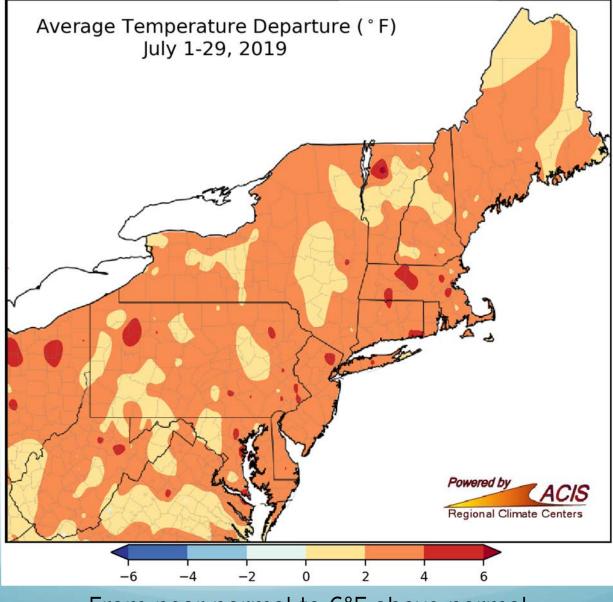
By: Samantha Borisoff, Climatologist Northeast Regional Climate Center







July Temperatures



From near normal to 6°F above normal

July Temperatures

Time Series Summary for Hartford Area, CT (ThreadEx)

Click column heading to sort ascending, click again to sort descending.

Rank	Year-Month	Number of Days Max Temperature >= 90	Missing Count
1	2019-07	17	2
-	2016-07	17	0
3	1966-07	16	0
-	1955-07	16	0
5	2010-07	15	0
6	2002-08	14	0
æ)	1999-07	14	0
-	1988-08	14	0
-	1977-07	14	0
-	1952-07	14	0

Station	July Highest Min Temp (°F)	July 19-21, 2019 Highest Min Temp (°F)	Rank for July (warmest)	Rank for Any Month (warmest)
Boston, MA	81	83	1	1
LaGuardia Airport, NY	86	83	7	
Atlantic City, NJ	84	82	3	4
Central Park, NY	84	82	7	9
Philadelphia, PA	83	81	7	
Washington National, DC	84	81	10	
Kennedy Airport, NY	82	80	3	6
Erie, PA	82	79	7	
Harrisburg, PA	81	79	6	8
Islip, NY	81	79	2	3
Providence, RI	78	78	1	2
Syracuse, NY	81	78	8	9
Bridgeport, CT	80	77	6	9
Hartford, CT	80	77	3	5
Allentown, PA	79	76	5	7
Portland, ME	79	76	2	2
Worcester, MA	80	75	9	

Min Temps:

- Tied all-time warmest on record (since 1872) for Boston and warmest for July for Providence (since 1904)
- Ranked among 10 all-time warmest for at least 12 sites
- Ranked among 10 warmest for July for at least 17 sites

July Heat Wave

July 19-22:

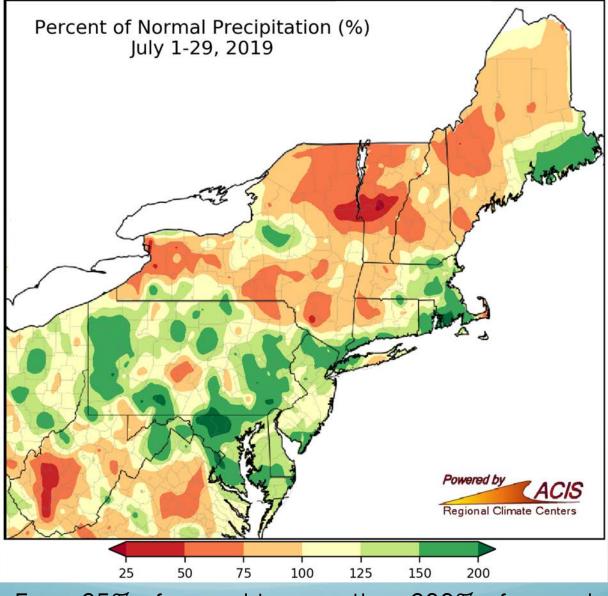
- Max temps reached $\sim 100^{\circ}F$
- High humidity levels
- Felt like it was 114°F in some places
 - Excessive Heat Warnings

Maximum 1-Day Mean Min Temperature for Boston Area, MA (ThreadEx)

Click column heading to sort ascending, click again to sort descending.

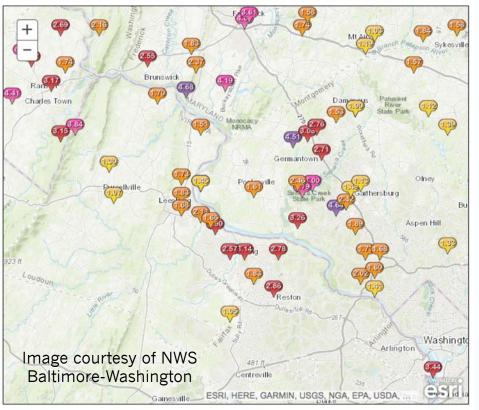
Rank	Value	Ending Date	
1	83.0	2019-07-21	
-	83.0	1975-08-02	
3	81.0	2018-08-29	
-	81.0	2011-07-22	
-	81.0	1999-07-05	
-	81.0	1991-07-21	
7	80.0	2019-07-20	
-	80.0	2012-06-21	
-	80.0	2002-07-03	
-	80.0	1977-07-20	
Last va	lue also occurred in or	ne or more previous years.	
P	eriod of record: 1872-0	03-01 to 2019-07-21	

July Precipitation



From 25% of normal to more than 200% of normal

July Flash Flooding



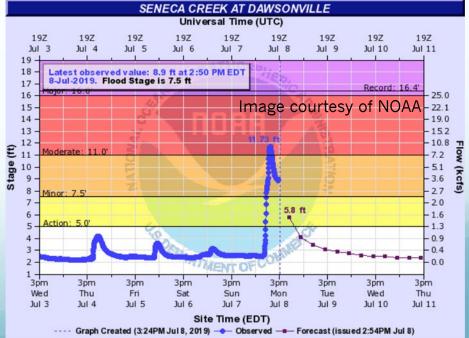
July 11:

- Reports of 2.50" in 1 hour in Pennsylvania
- Whitemarsh Run (MD) rose more than 6 ft. in 1 hour
- Flash Flood Emergency (Southeast Pennsylvania)

Several events during the month – two examples

July 8:

- Washington, D.C., had 3.30" in 1 hour (almost a July's worth)
- Seneca Creek (MD) rose more than 5 ft. in an hour (below)
- Flash Flood Emergency in D.C.



DAWM2(plotting HGIRG) "Gage 0" Datum: 213.31'

July Severe Weather

Numerous days with thunderstorms but few tornadoes:

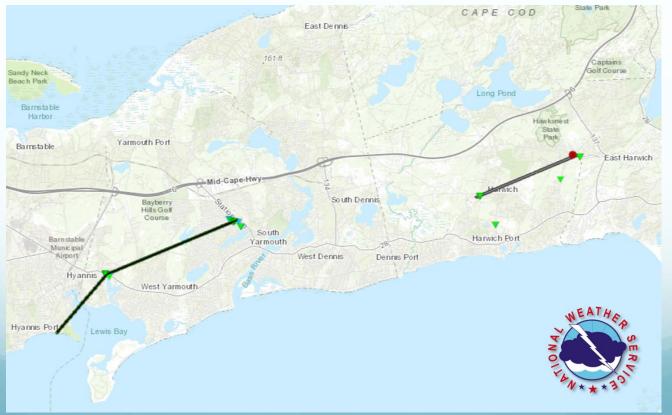
- Northeast's July average is 13
- July 2019 had 5

New Jersey:

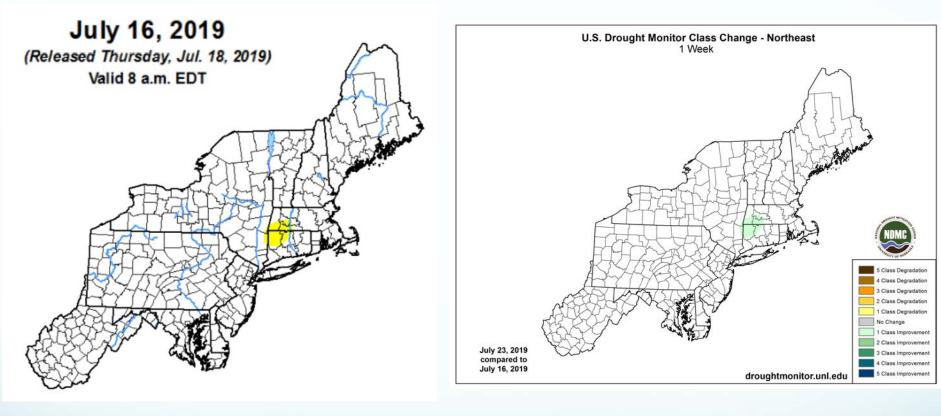
• an EF-0 and EF-1

Massachusetts:

- three EF-1s on Cape Cod
- Only 3 other Cape Cod tornadoes since 1950

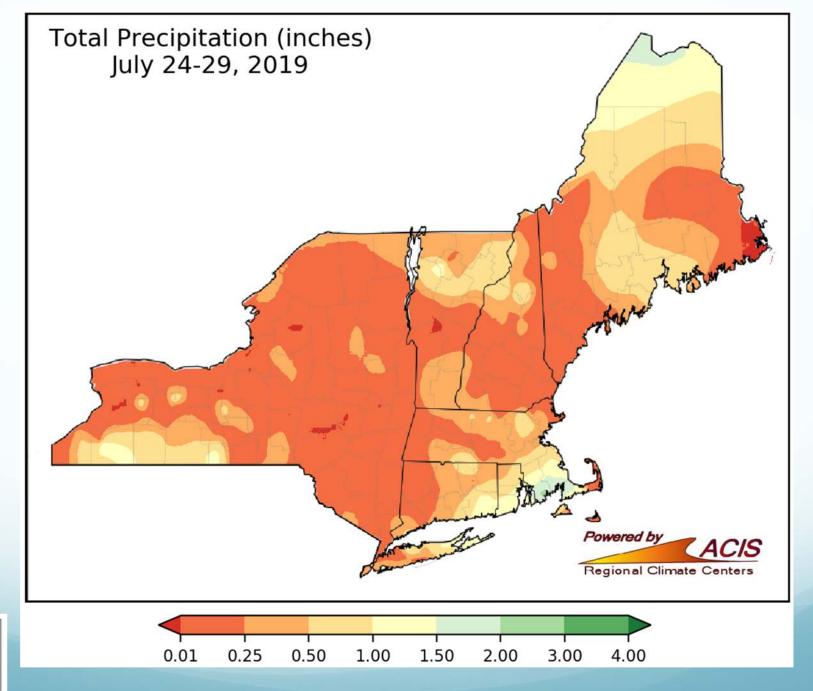


Drought Monitor

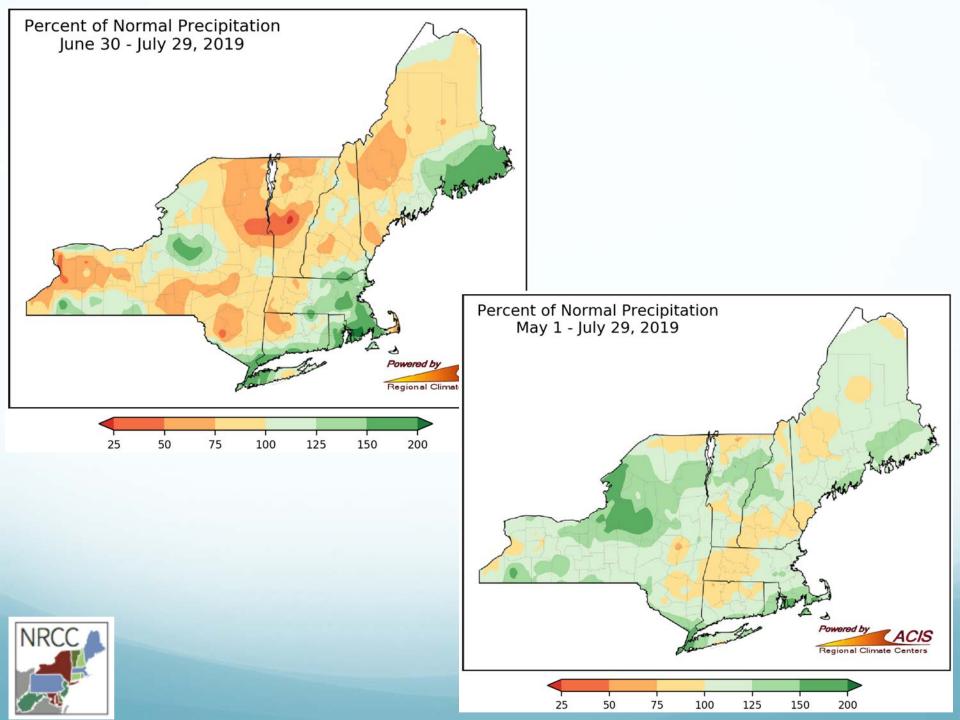


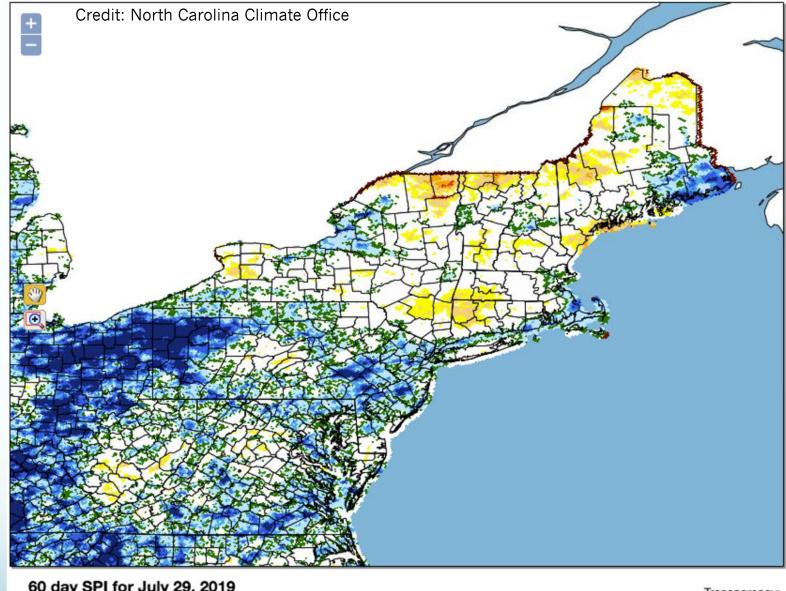
Intensity: D0 Abnormally Dry Mid-July:

- 1% of the region was abnormally dry
- improved the following week



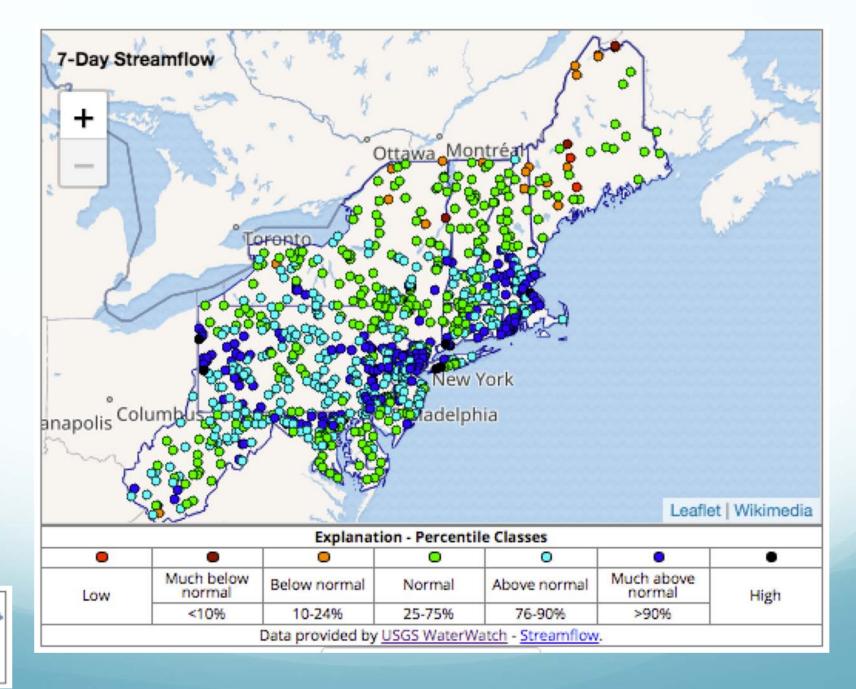




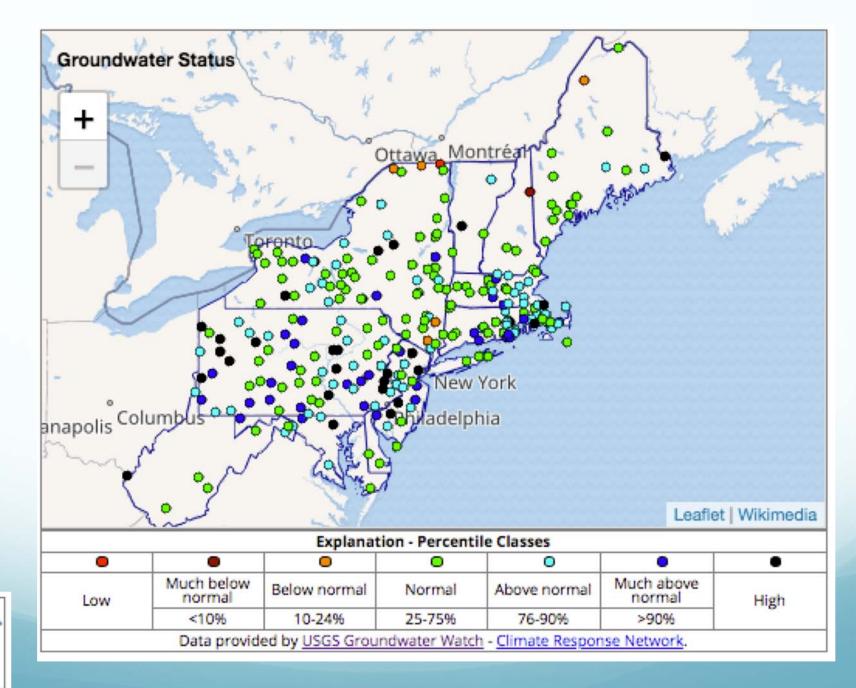




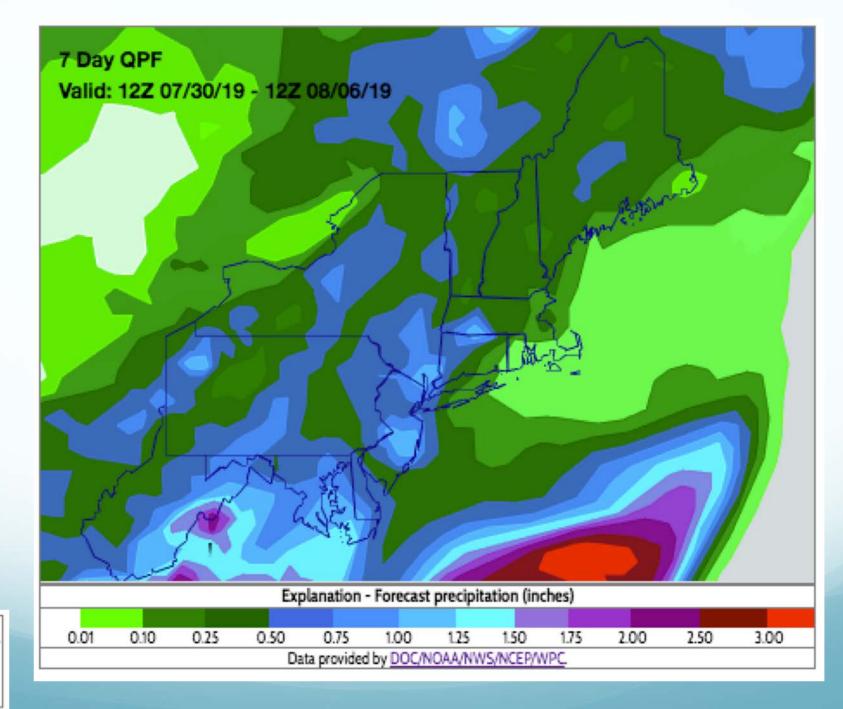






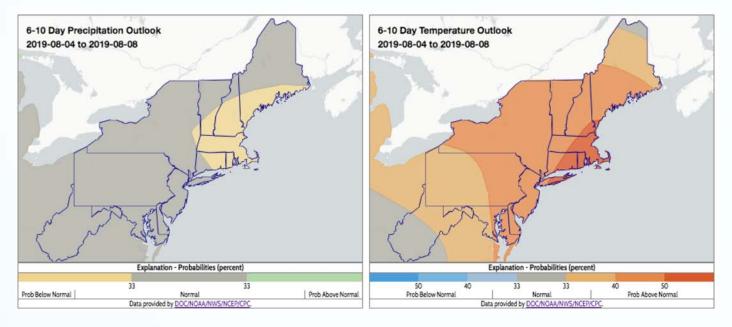


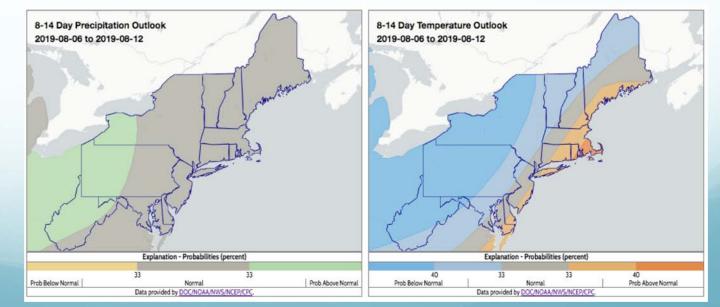




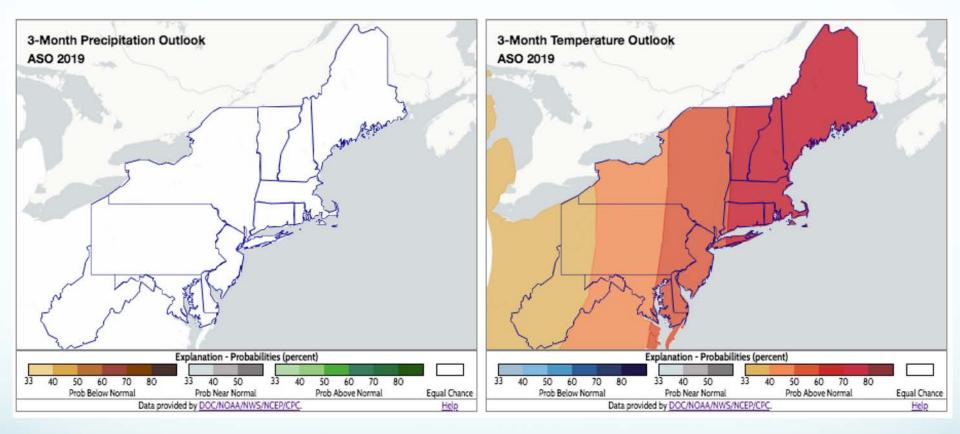


Short-term Outlooks





Long-term Outlooks



Contact Information

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

Upcoming Webinars

- Thursday, August 29 at 9:30 am
 - Updated Hurricane Outlook
- Thursday, September 26 at 9:30 am
 - Massachusetts Hazards and Climate Vulnerability Assessment
- Thursday, October 31 at 9:30 am
 - Report Out on our Special Extreme Precip Webinar Series & Regional Workshop

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