

June Recap & Northeast DEWS Discussion

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Northeast Regional
Climate Center



June Temperatures - Cold

Minimum 1-Day Mean Min Temperature for Hartford Area, CT (ThreadEx)

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

Rank	Value	Ending Date
1	37.0	2020-06-01
-	37.0	1986-06-03
-	37.0	1964-06-06
4	38.0	2001-06-01
-	38.0	1958-06-07
-	38.0	1957-06-10
7	39.0	2009-06-01
-	39.0	1961-06-16
9	40.0	1980-06-12
-	40.0	1980-06-11
Last value also occurred in one or more previous years.		
Period of record: 1905-01-01 to 2020-06-25		

June 1 & 2 were unusually cold
in northern areas

Hartford tied its coldest June
temperature

Caribou recorded two nights
with a low of 32°F or lower,
tying the record



Time Series Summary for Caribou Area, ME (ThreadEx) - Month of Jun

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

Rank	Year	Number of Days Min Temperature <= 32	Missing Count
1	2020	2	5
-	1958	2	0
-	1951	2	0
4	2002	1	0
-	1971	1	0
-	1950	1	0
-	1946	1	0

June Temperatures - Hot

Maximum 1-Day Mean Max Temperature for Caribou Area, ME (ThreadEx)

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

Rank	Value	Ending Date
1	96.0	2020-06-19
-	96.0	1944-06-29
3	95.0	2020-06-18
4	93.0	2020-06-20
-	93.0	1995-06-24
-	93.0	1988-06-15
-	93.0	1983-06-22
8	92.0	2020-06-23
-	92.0	2003-06-25
-	92.0	1983-06-21
Last value also occurred in one or more previous years.		
Period of record: 1939-01-16 to 2020-06-25		

Caribou -

- tied hottest day on record
- 4 of 10 hottest June temps occurred this June
- longest stretch of 80°F+ days on record
- Greatest number of 80°F days for June

Burlington – tied record
number of 90°F days in June

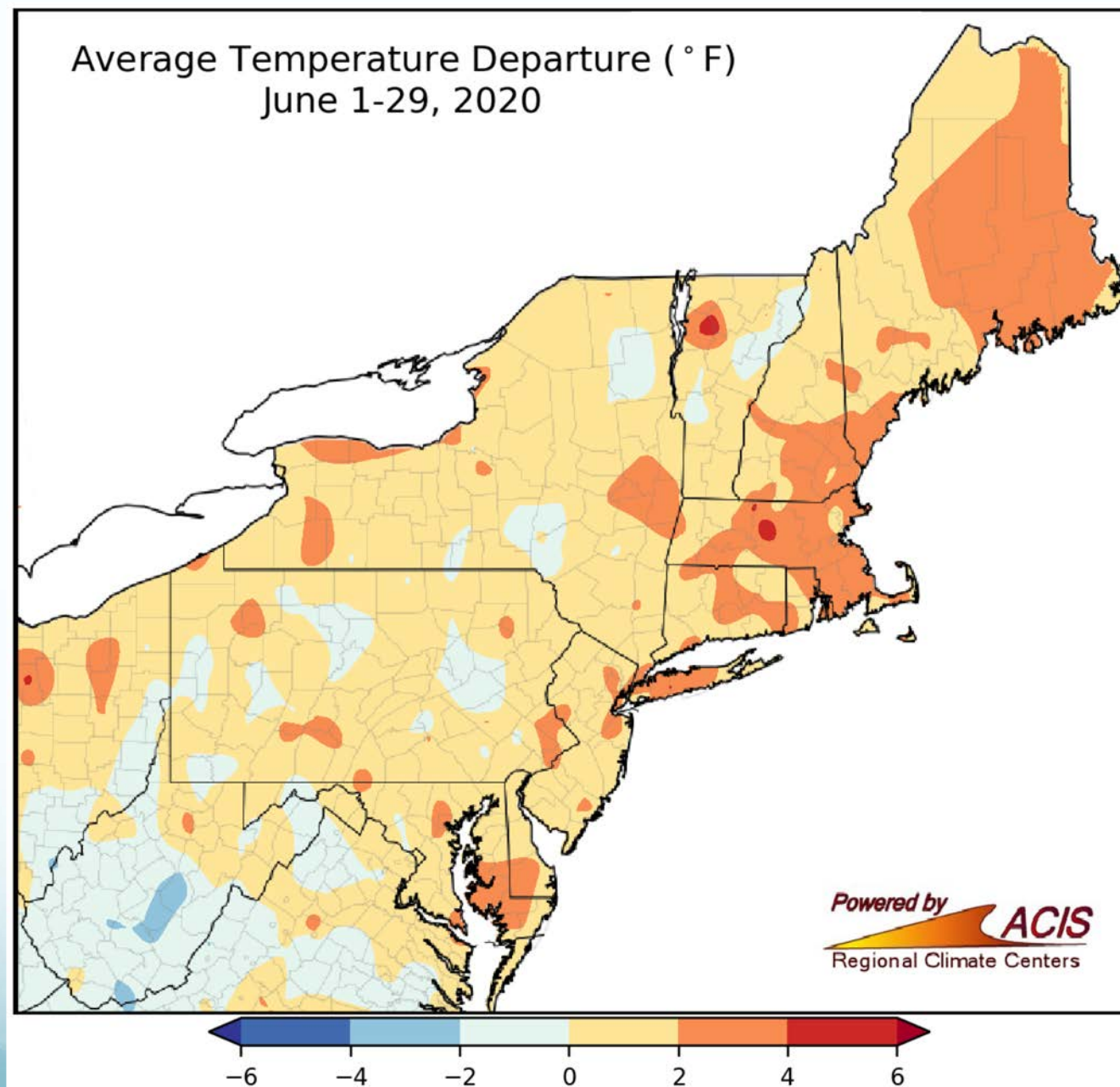
Time Series Summary for Burlington Area, VT (ThreadEx) - Month of Jun

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

Rank	Year	Number of Days Max Temperature ≥ 90	Missing Count
1	2020	7	2
-	1949	7	0
3	1995	6	0
-	1983	6	0
-	1946	6	0

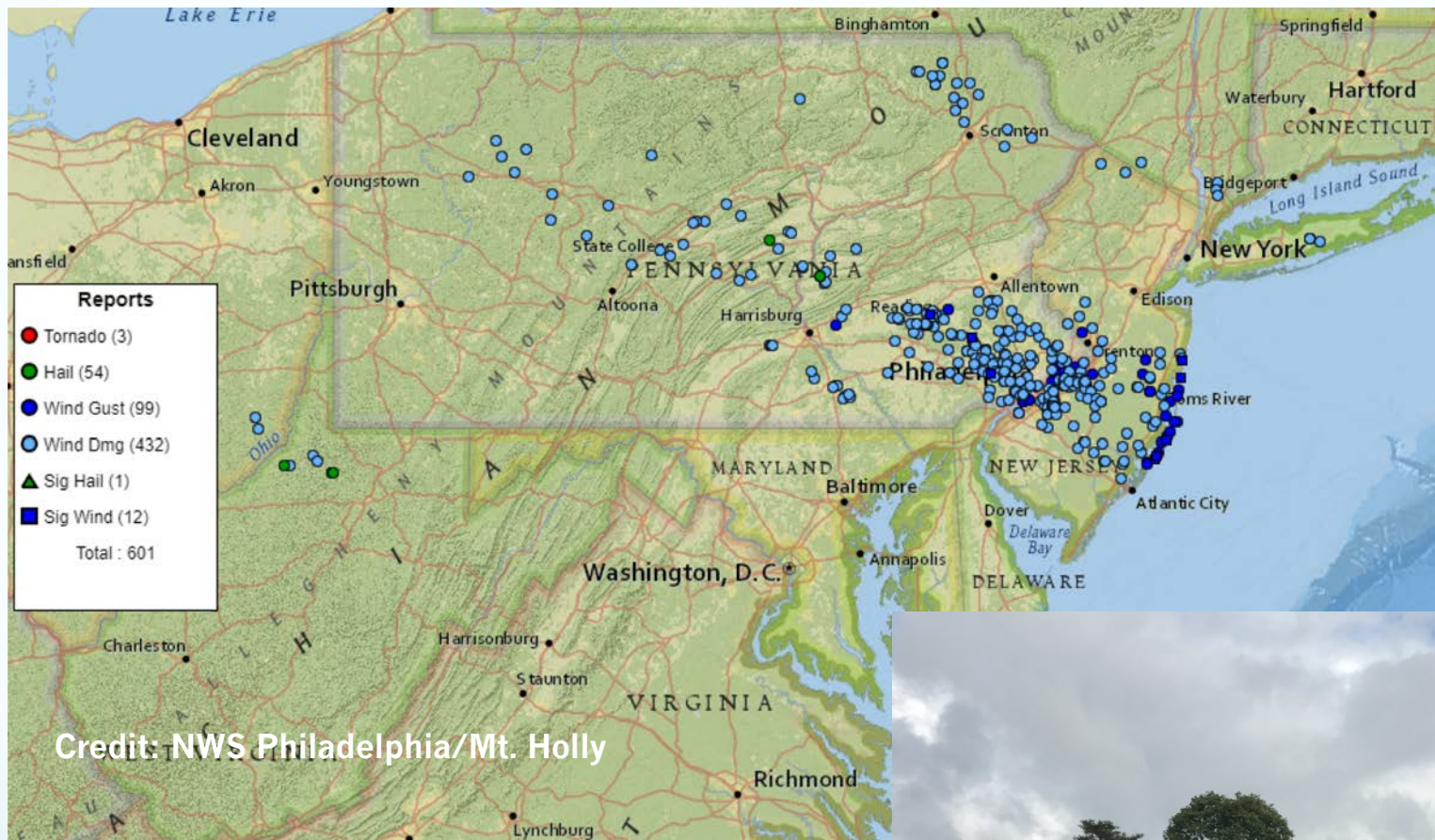


June Temperatures



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

June Severe Weather



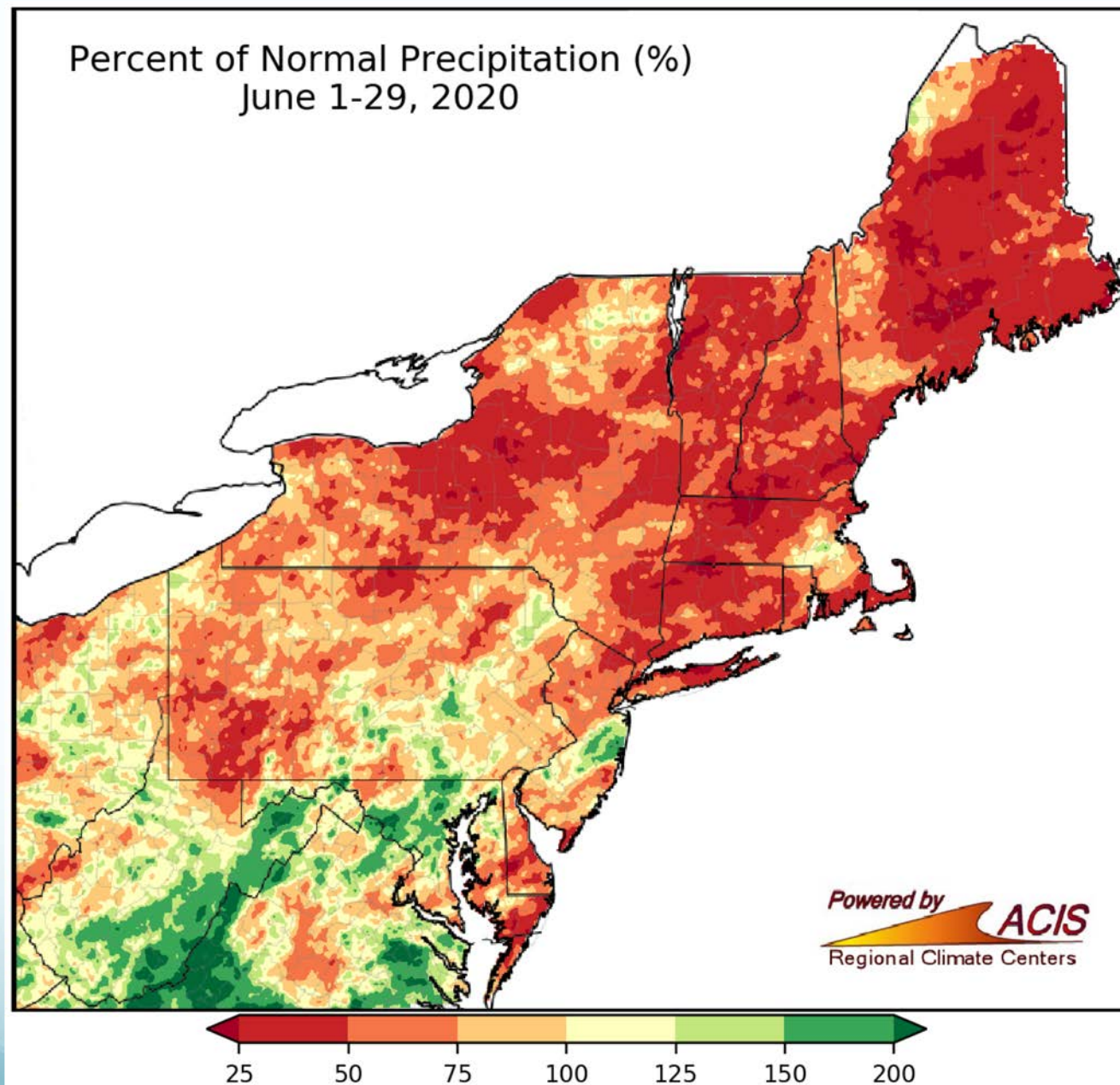
Widespread wind damage reports from the June 3 derecho



Beaver County, PA's strongest tornado in 30+ years (an EF-2)



June Precipitation



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

June Precipitation

Time Series Summary for Hartford Area, CT (ThreadEx) - Month of Jun

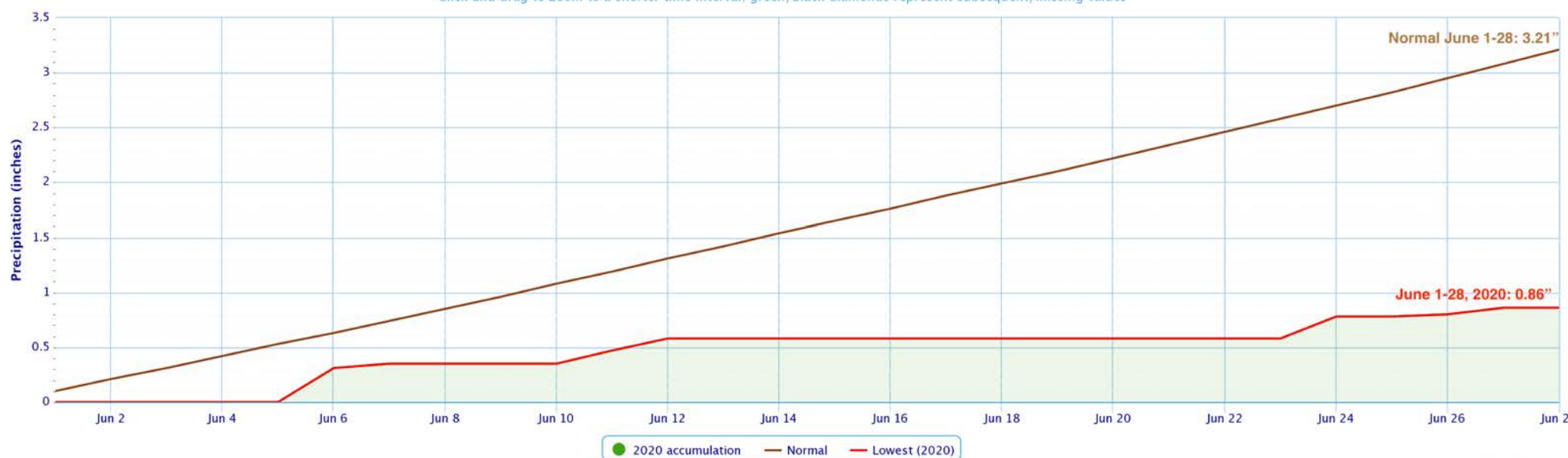
Click column heading to sort ascending, click again to sort descending.

Rank	Year	Number of Days Precipitation ≥ 0.01	Missing Count
1	1949	3	0
2	2020	4	2
-	1971	4	0

Hartford – only 4 days with measurable precip June 1-28

Accumulated Precipitation – Caribou Area, ME (ThreadEx)

Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



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Caribou & Burlington –
driest June 1-28 period
on record



Time Series Summary for Burlington Area, VT (ThreadEx)

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

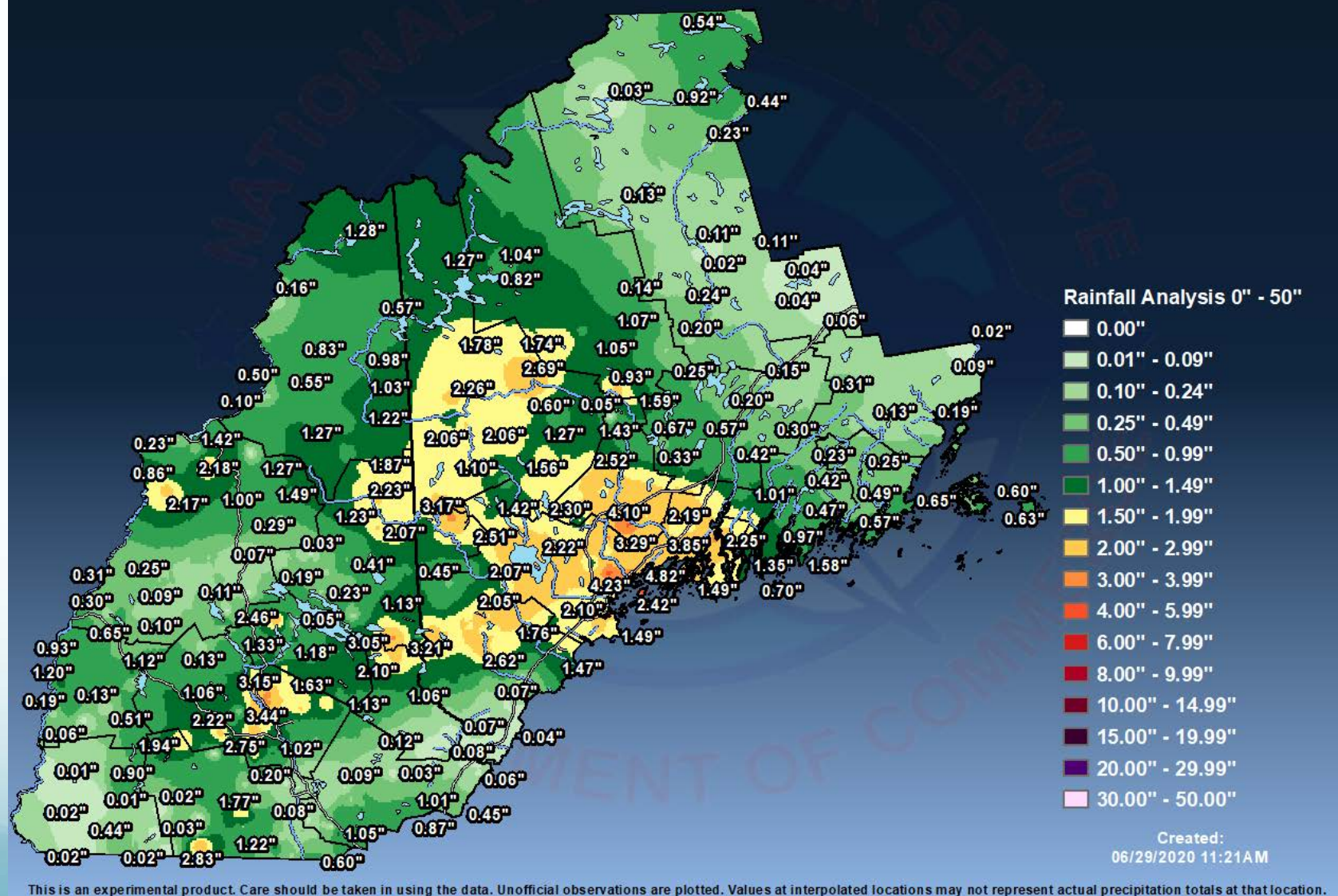
Rank	Ending Date	Total Precipitation Jun 1 to Jun 28	Missing Count
1	2020-06-28	0.74	0
2	1995-06-28	0.82	0
3	1941-06-28	0.93	0

June Precipitation

National Weather Service Gray/Portland Maine

June 28-29, 2020 Rainfall Through 11AM

Analysis Data Source: Regional Observations



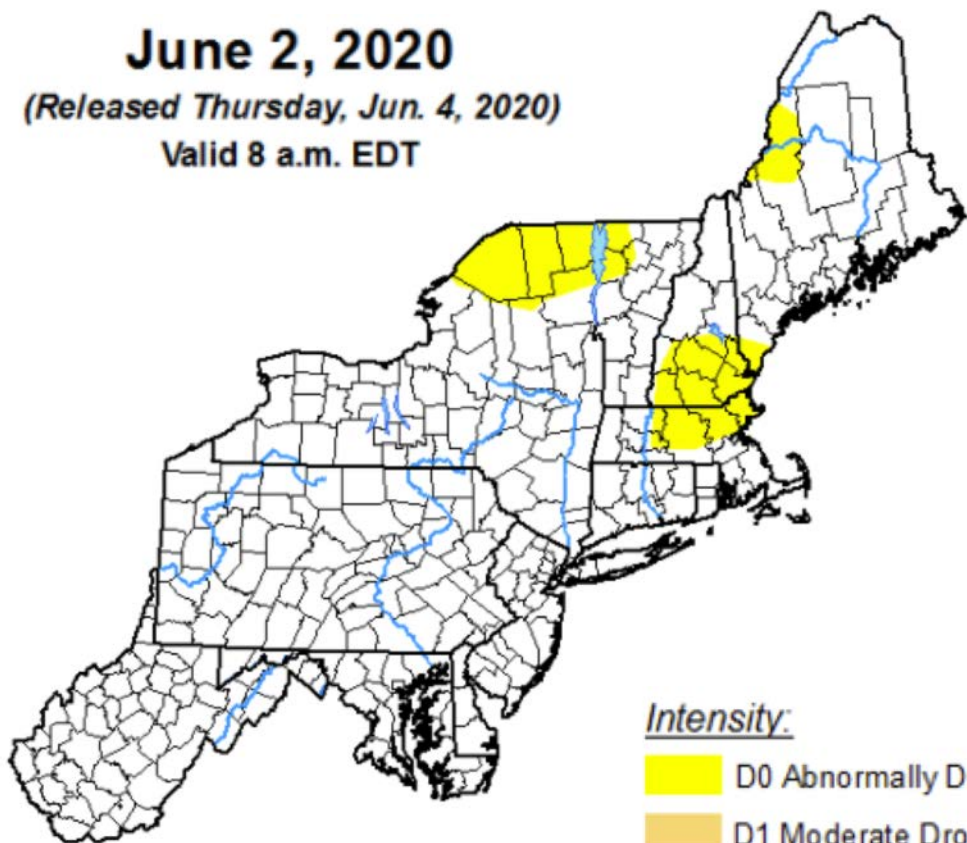
Much-needed rain in parts of Maine & New Hampshire

Drought Monitor

June 2, 2020

(Released Thursday, Jun. 4, 2020)

Valid 8 a.m. EDT



Intensity:



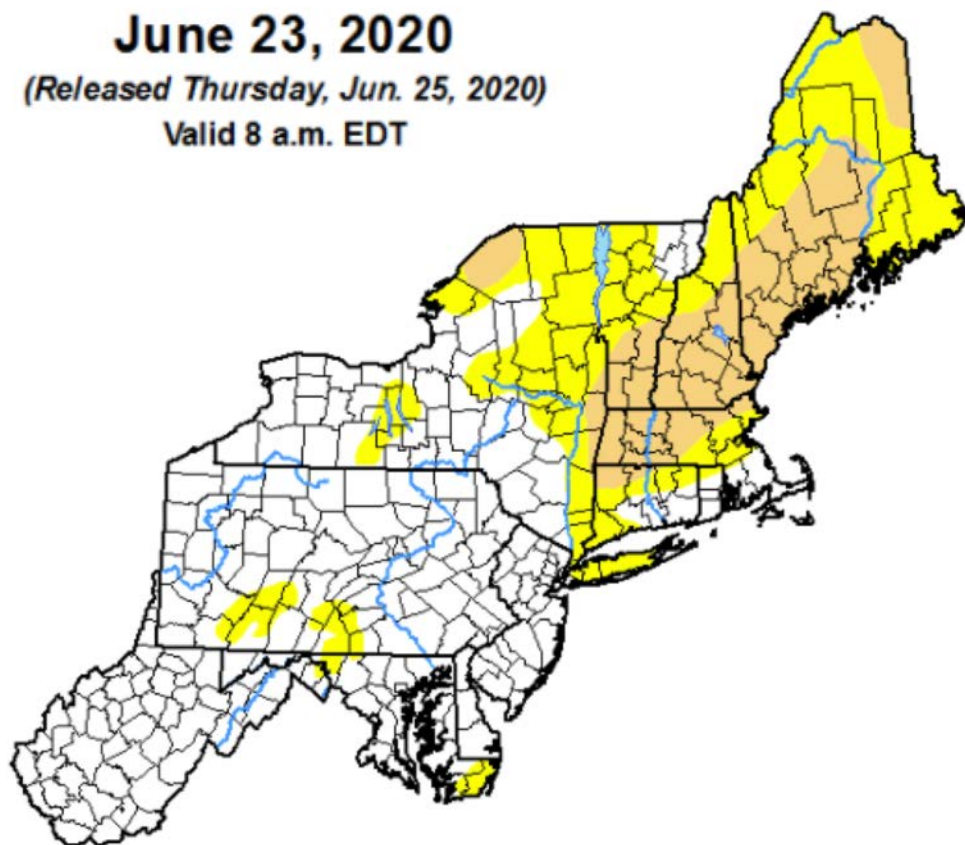
D0 Abnormally Dry

D1 Moderate Drought

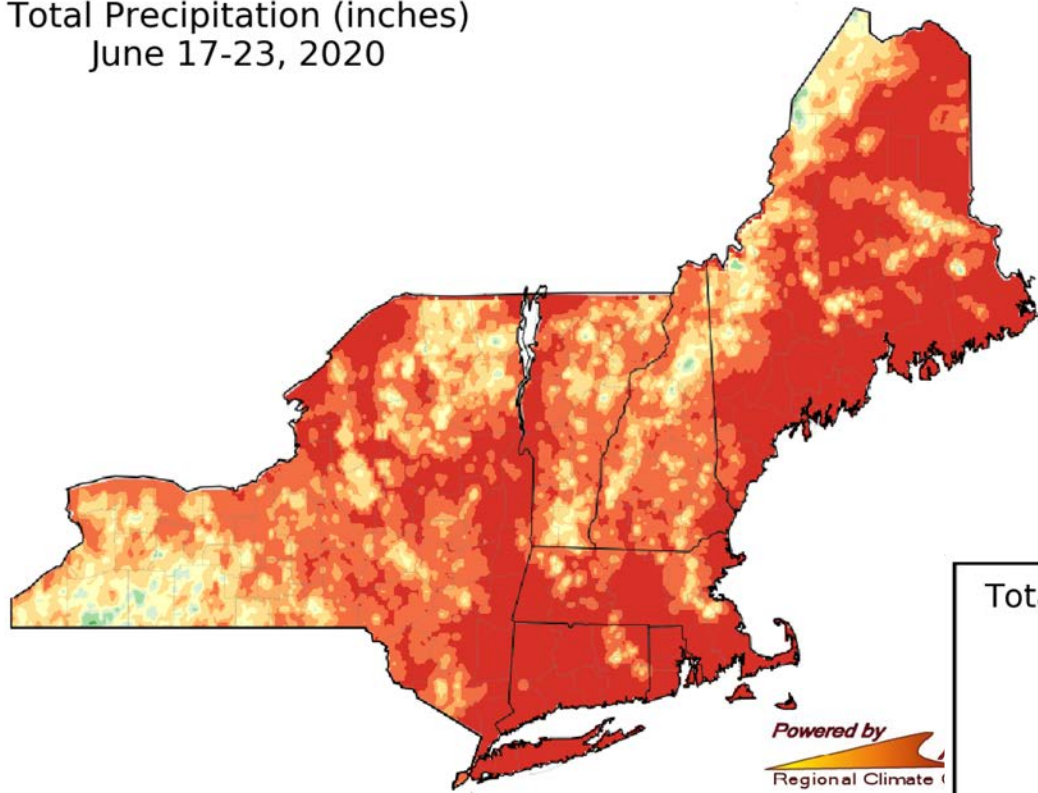
June 23, 2020

(Released Thursday, Jun. 25, 2020)

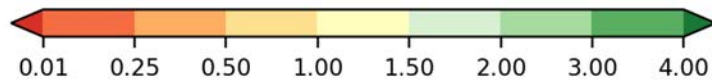
Valid 8 a.m. EDT



Total Precipitation (inches)
June 17-23, 2020

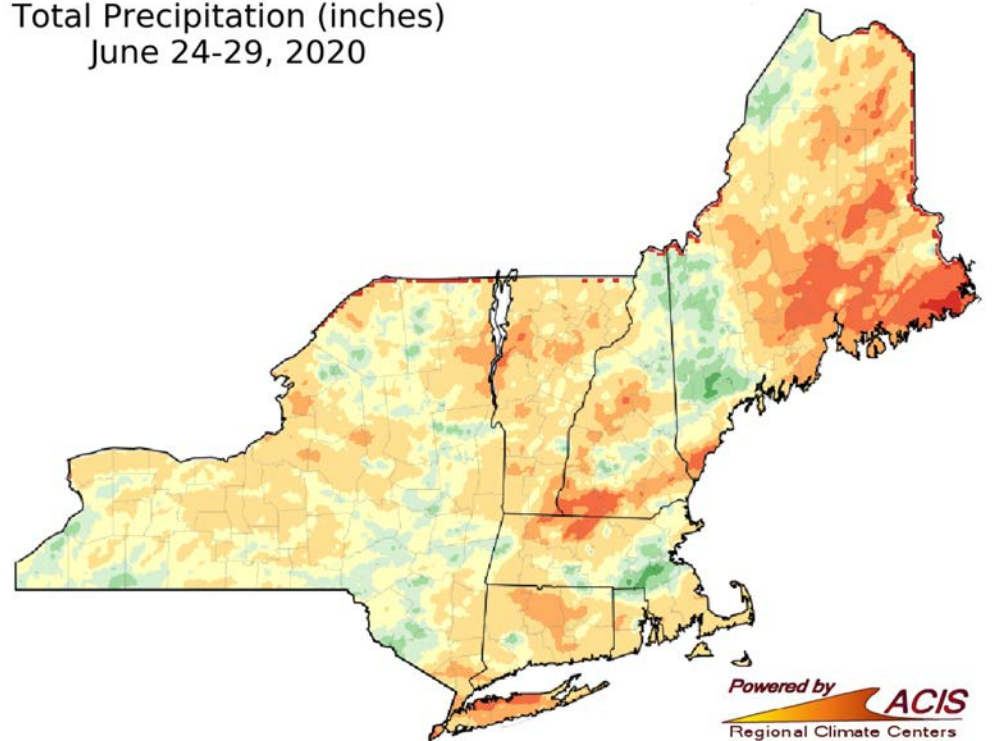


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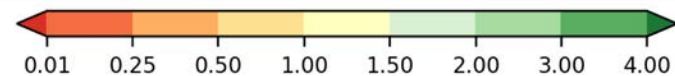


Precipitation

Total Precipitation (inches)
June 24-29, 2020

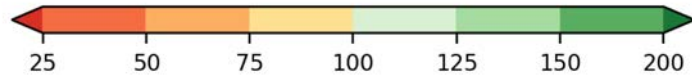
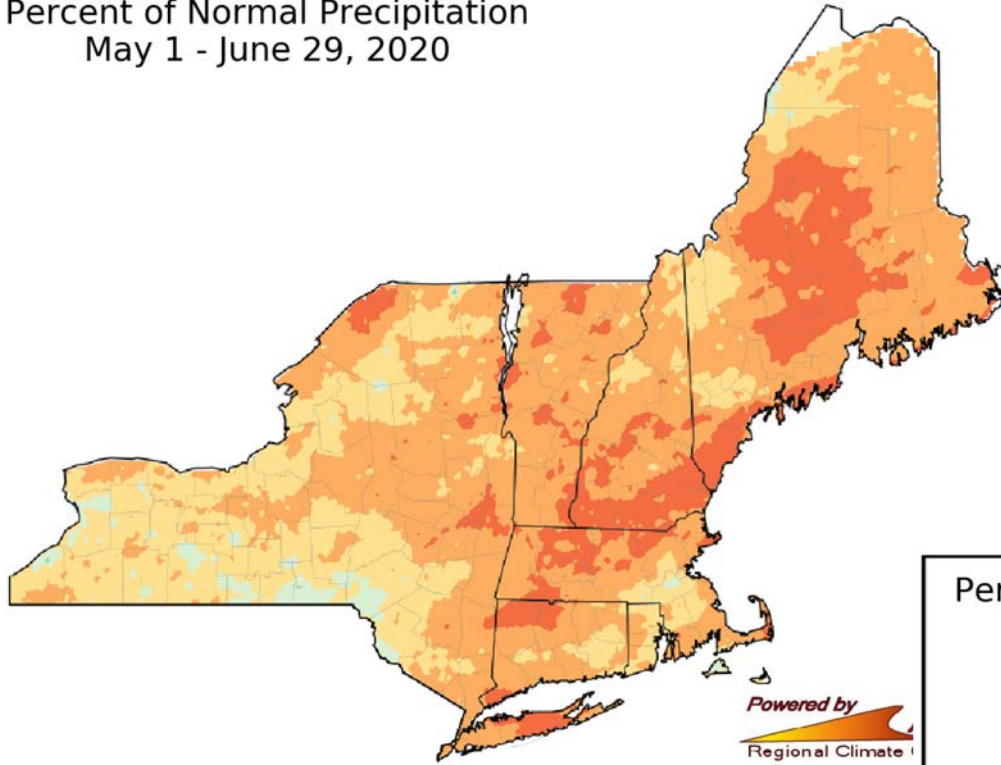


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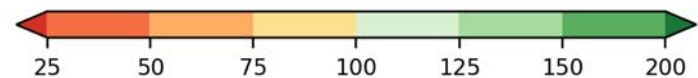
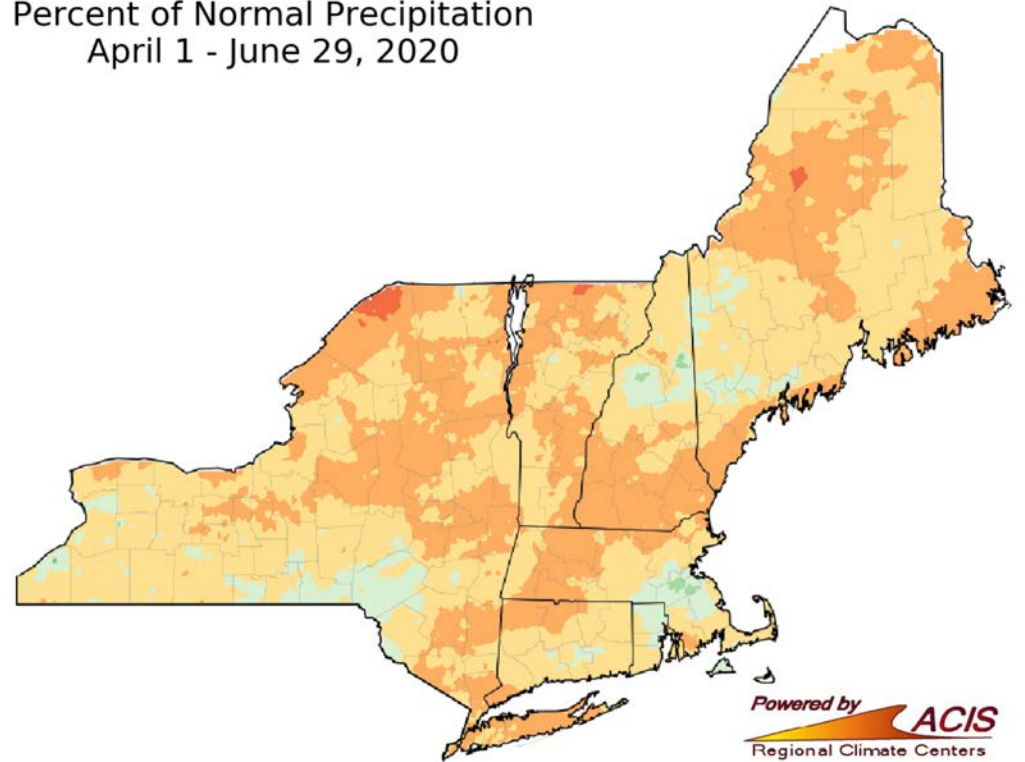


Precipitation

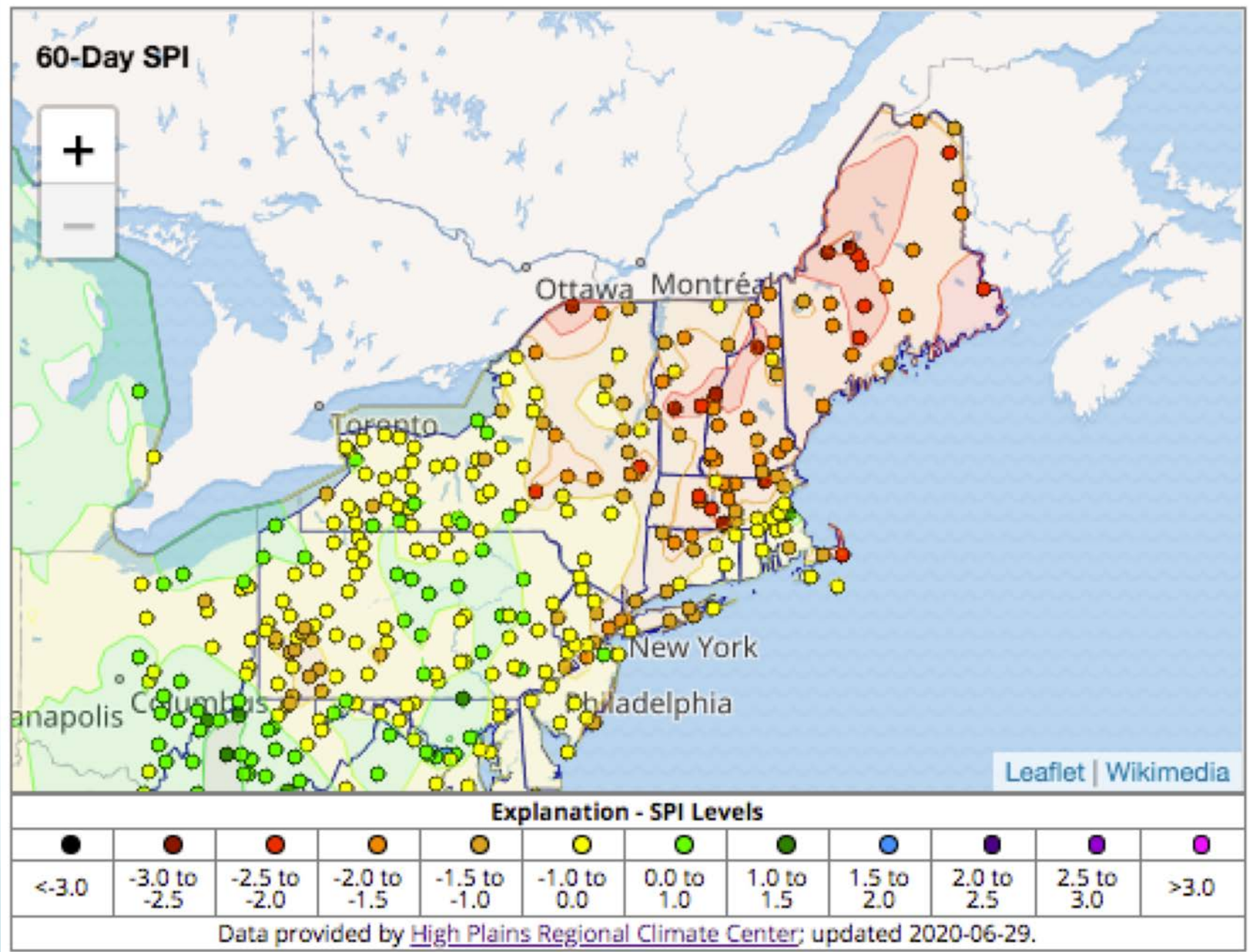
Percent of Normal Precipitation
May 1 - June 29, 2020



Percent of Normal Precipitation
April 1 - June 29, 2020

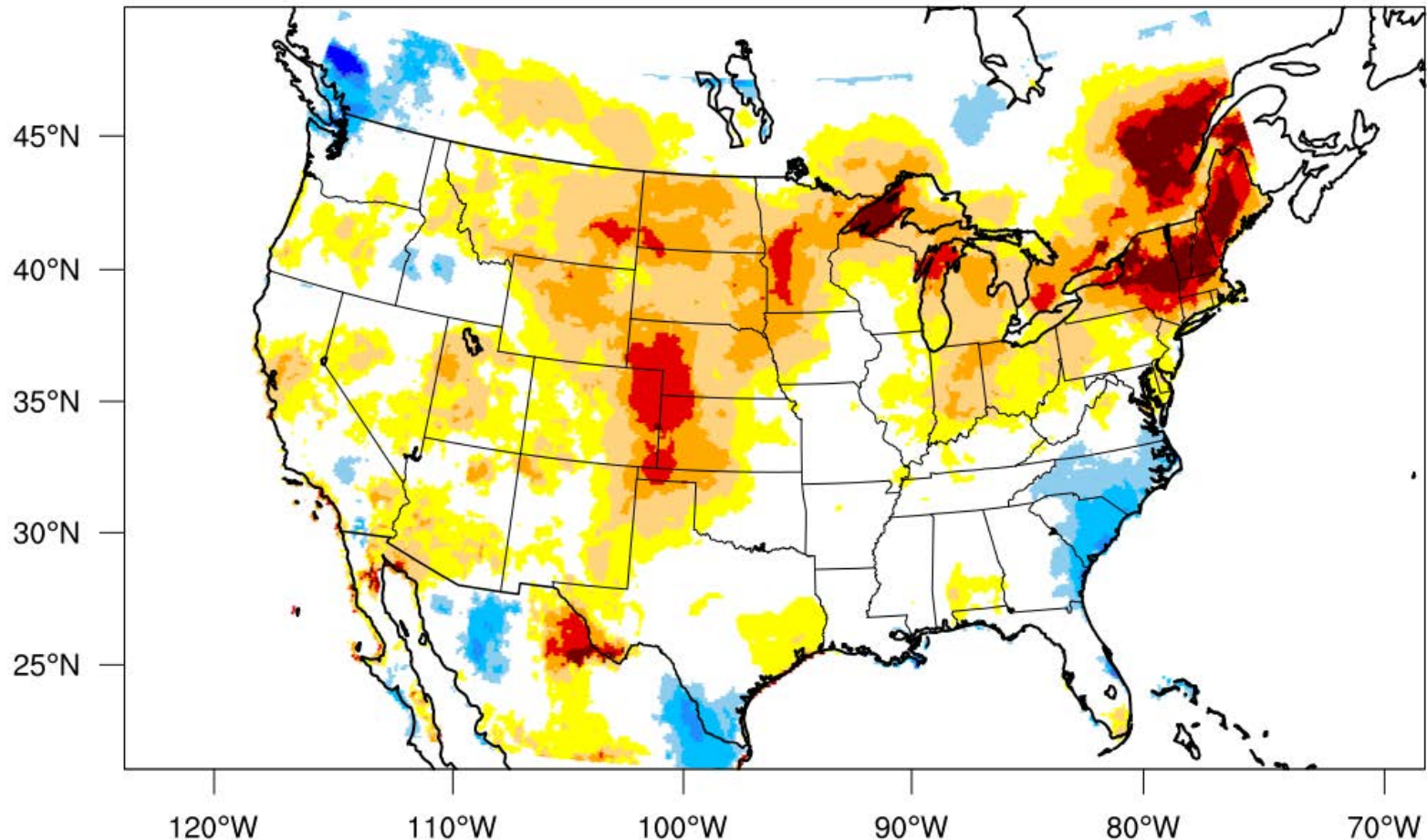


Standardized Precip Index



Evap. Drought Demand Index

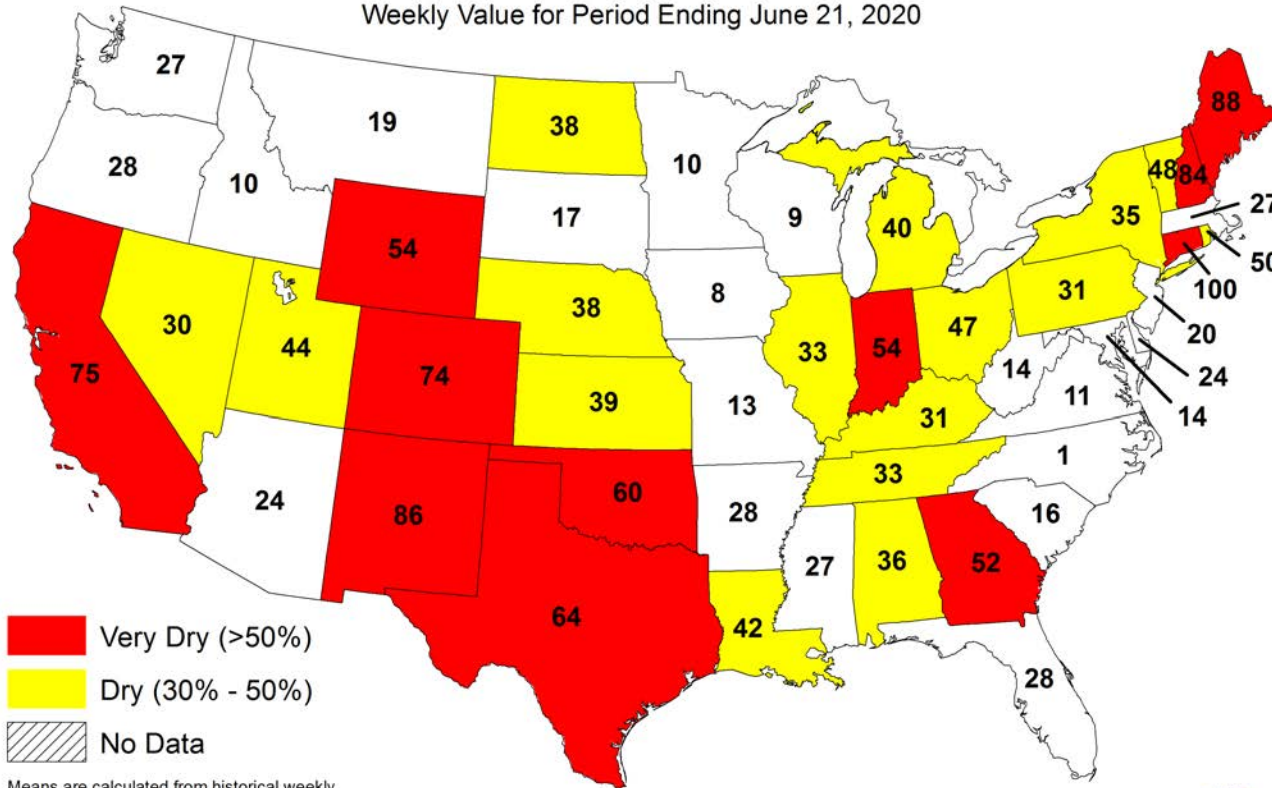
1-month EDDI categories for June 25, 2020



Generated by NOAA/ESRL/Physical Sciences Division

Soil Moisture

USDA Topsoil Moisture by Short-Very Short
Percent of State Area
Weekly Value for Period Ending June 21, 2020



Means are calculated from historical weekly data published by USDA/NASS using the closest date to the equivalent date for this year.

Results are based on the short and very short percentages of topsoil moisture (upper 6 inches) reported by the USDA. Reports are based on subjective observations.

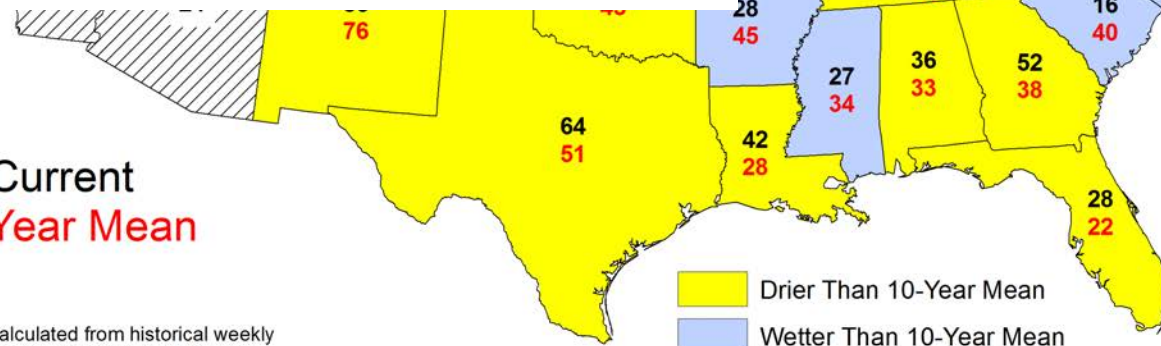


Short-Very Short
mean
June 21, 2020

Current 10-Year Mean

Means are calculated from historical weekly data published by USDA/NASS using the closest date to the equivalent date for this year.

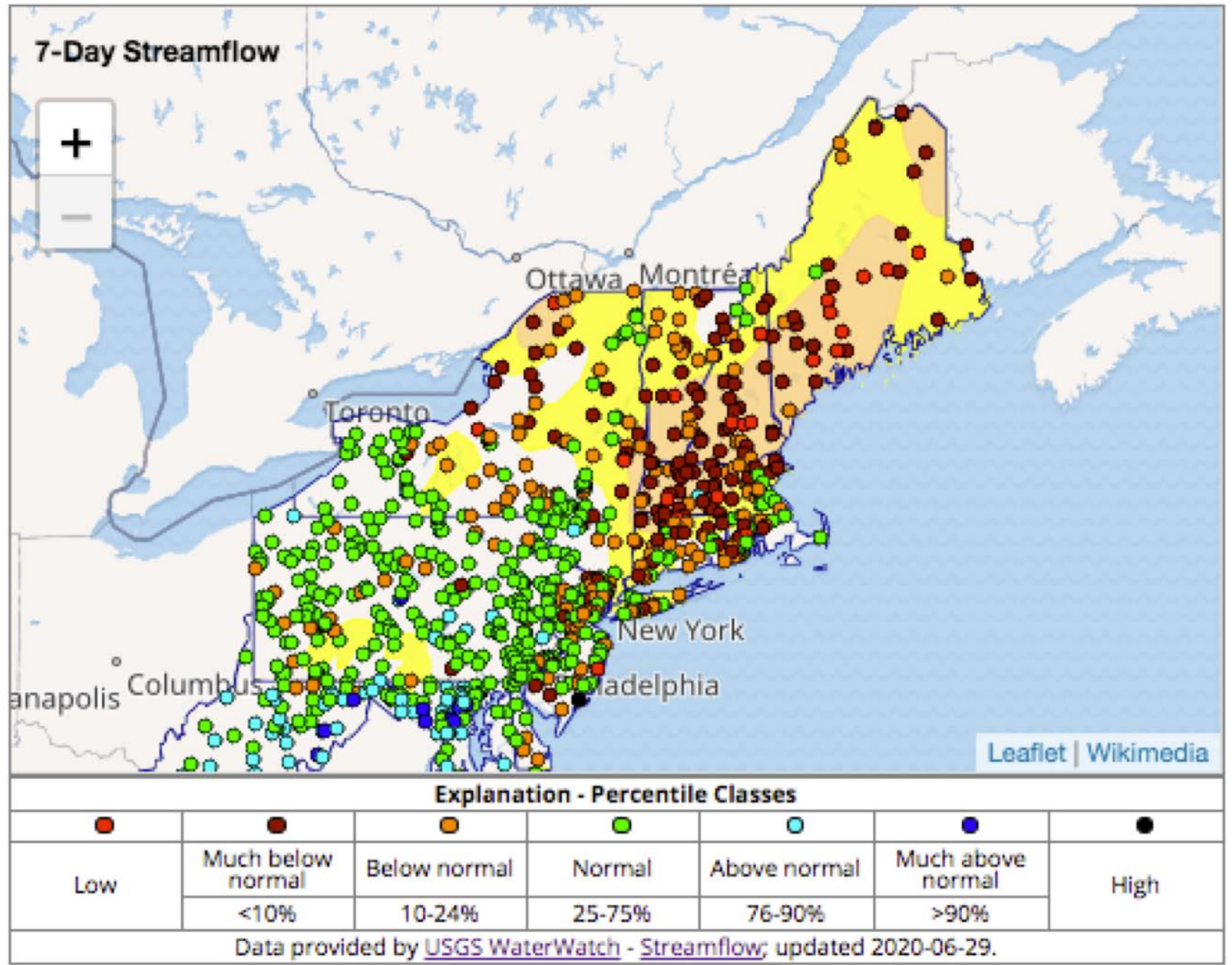
Results are based on the short and very short percentages of topsoil moisture (upper 6 inches) reported by the USDA. Reports are based on subjective observations.



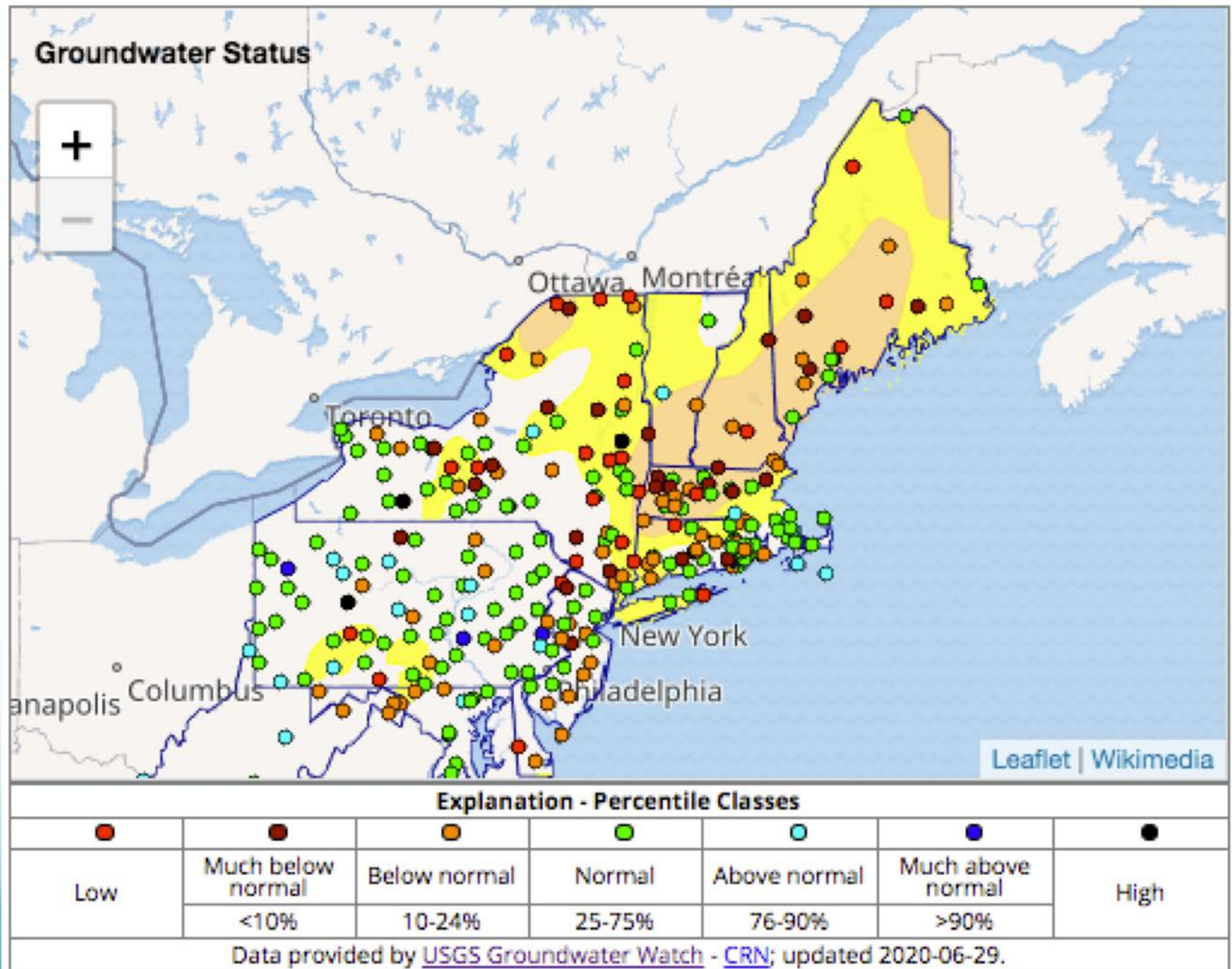
- Drier Than 10-Year Mean
- Wetter Than 10-Year Mean
- Equal to 10-Year Mean
- Insufficient Data



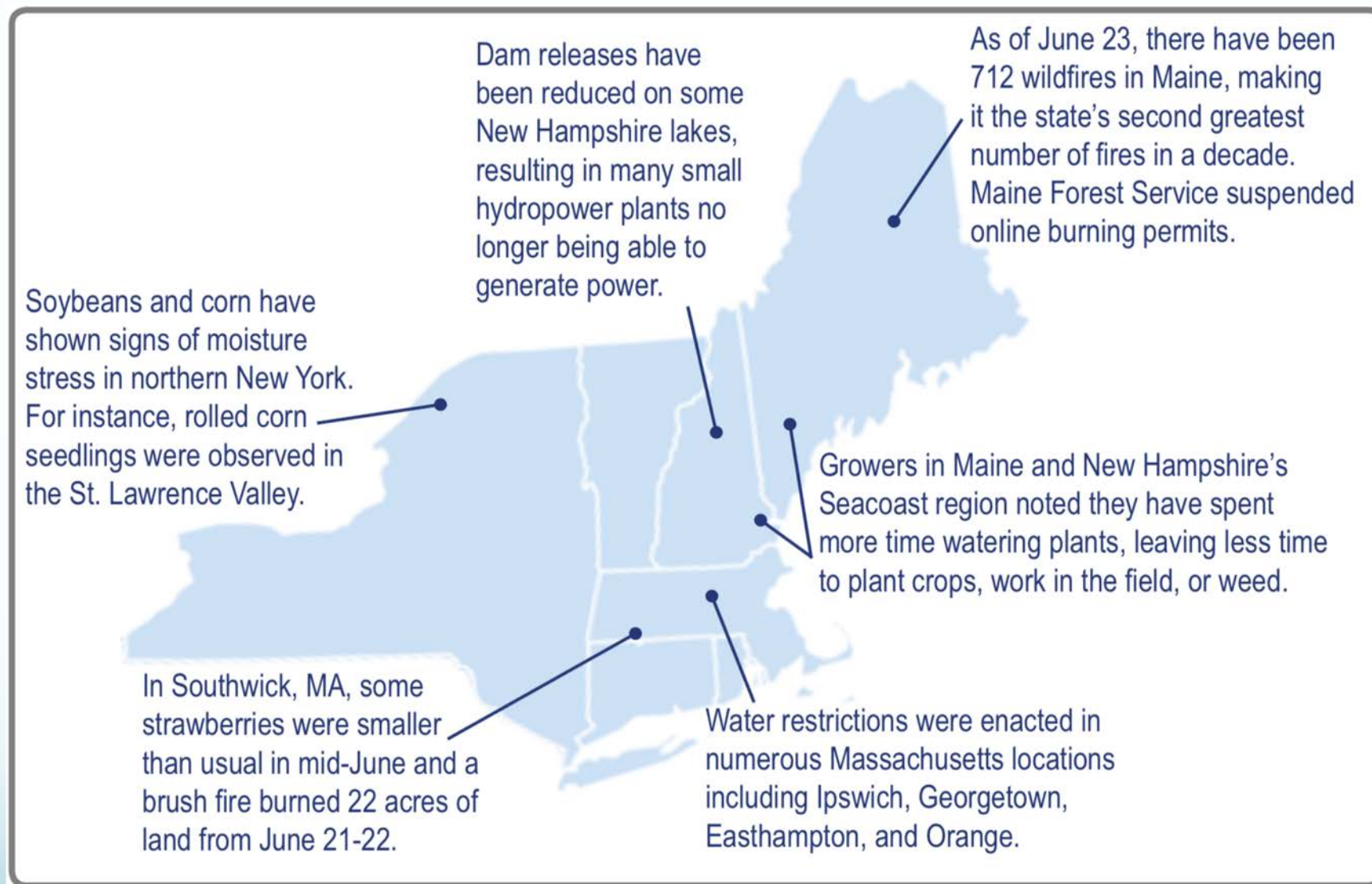
Streamflow



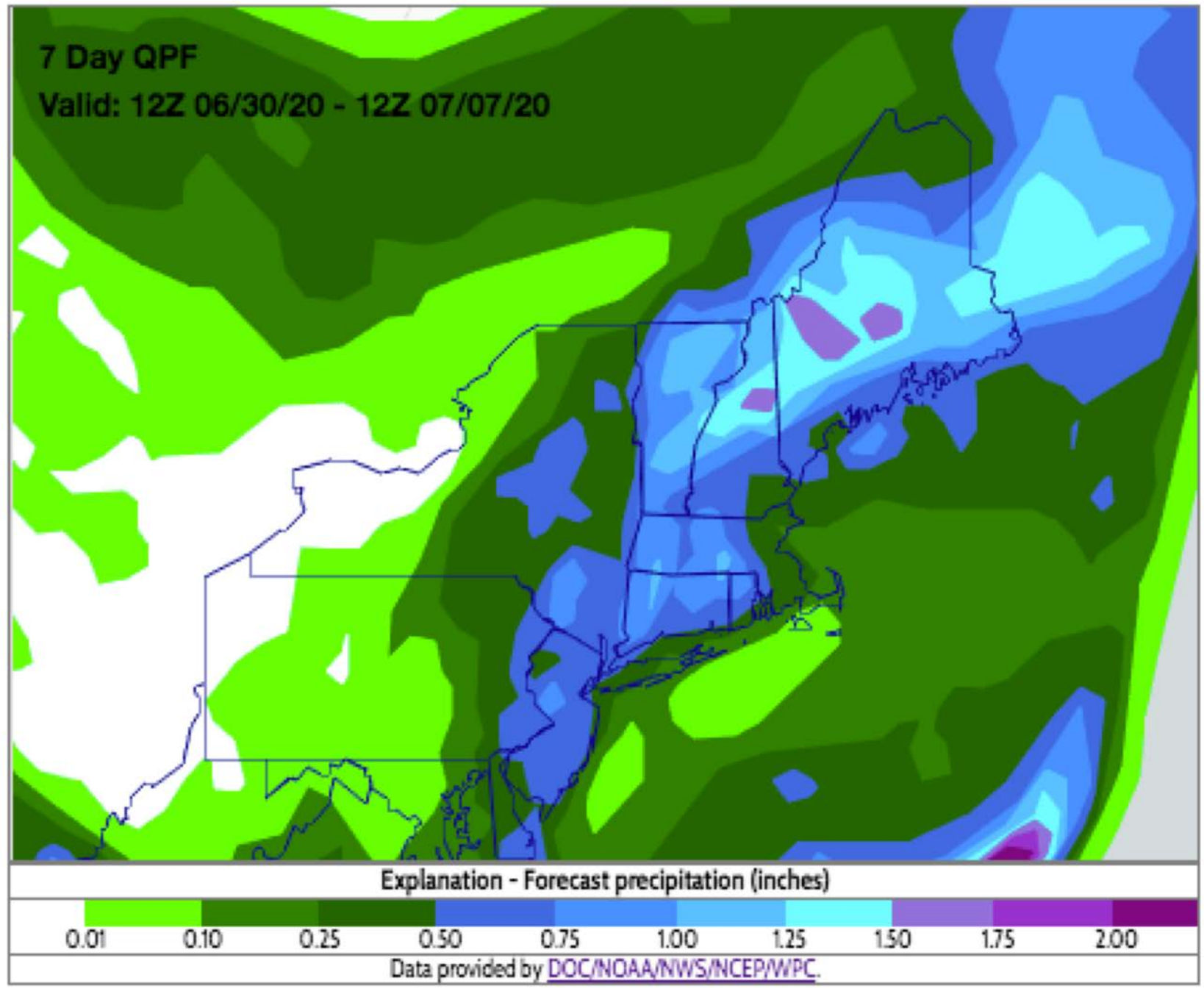
Groundwater



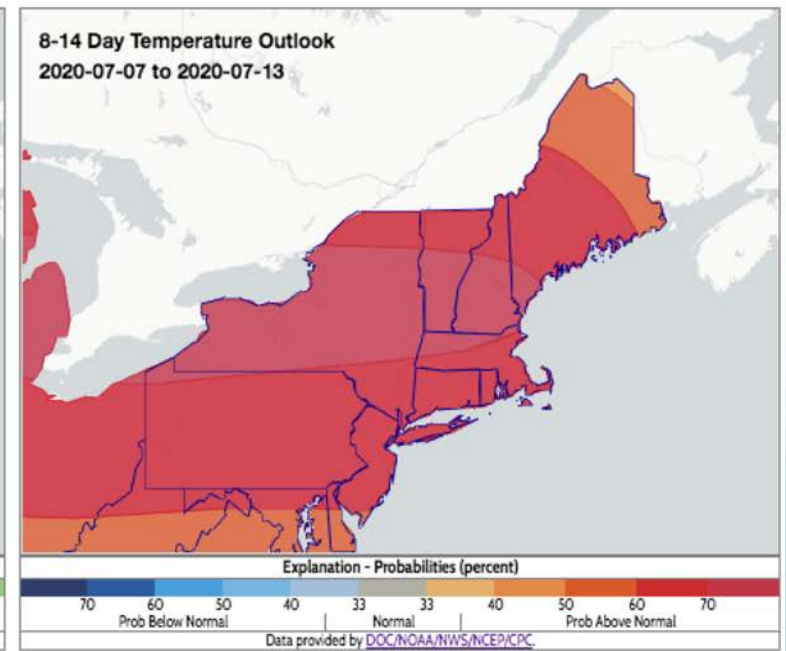
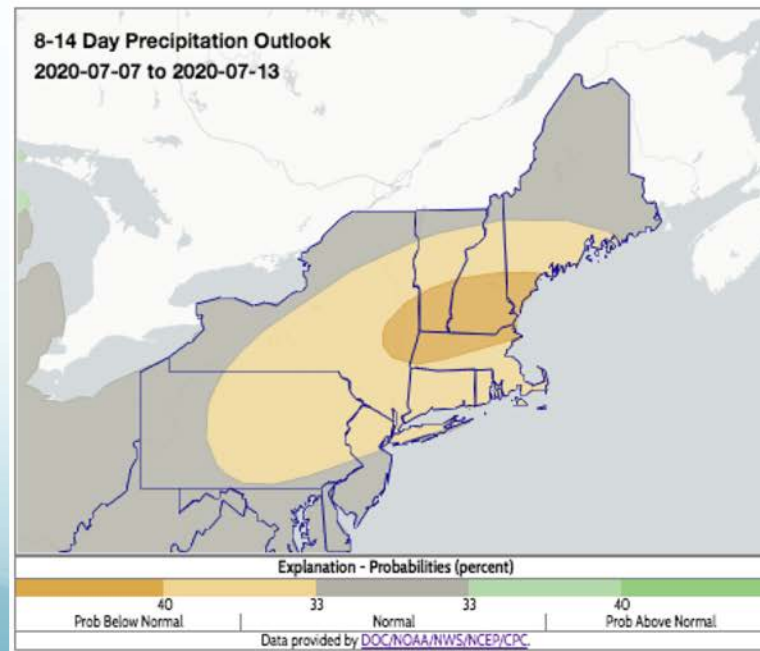
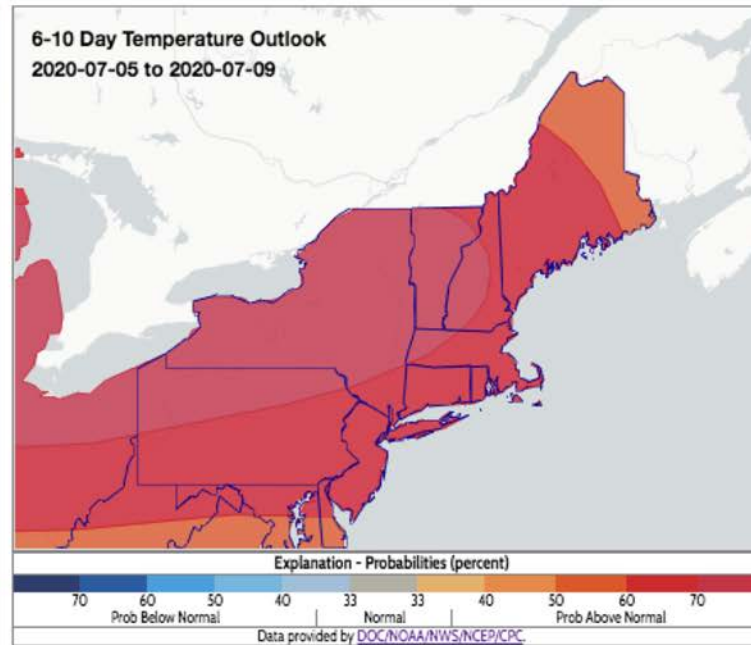
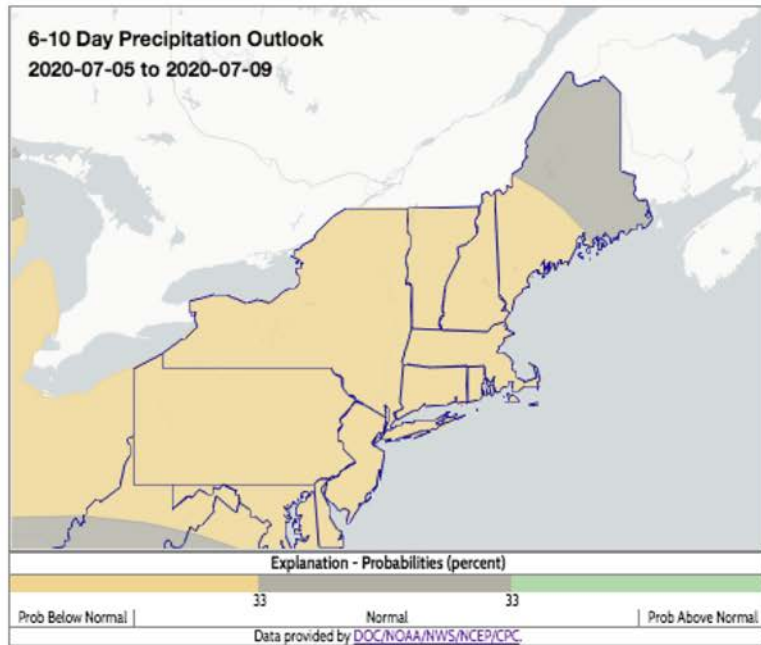
Impacts



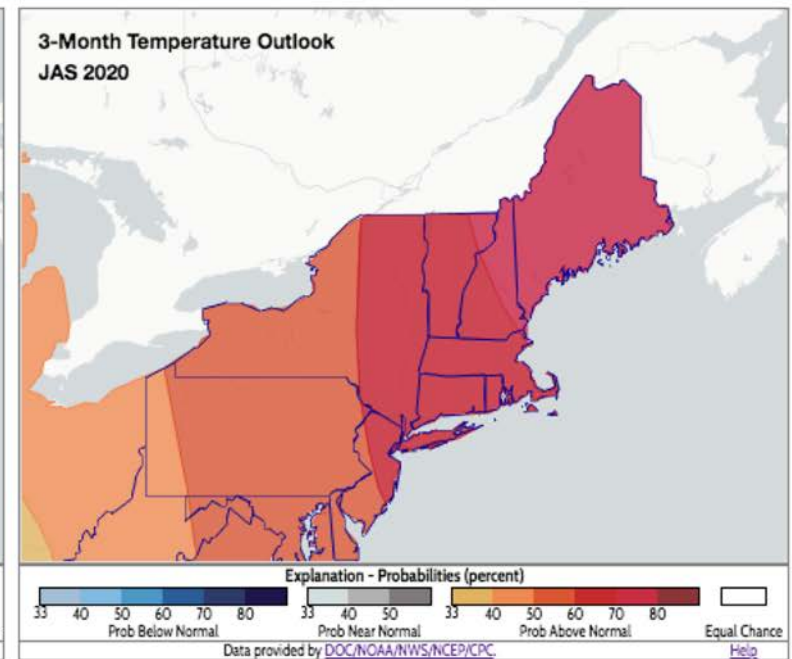
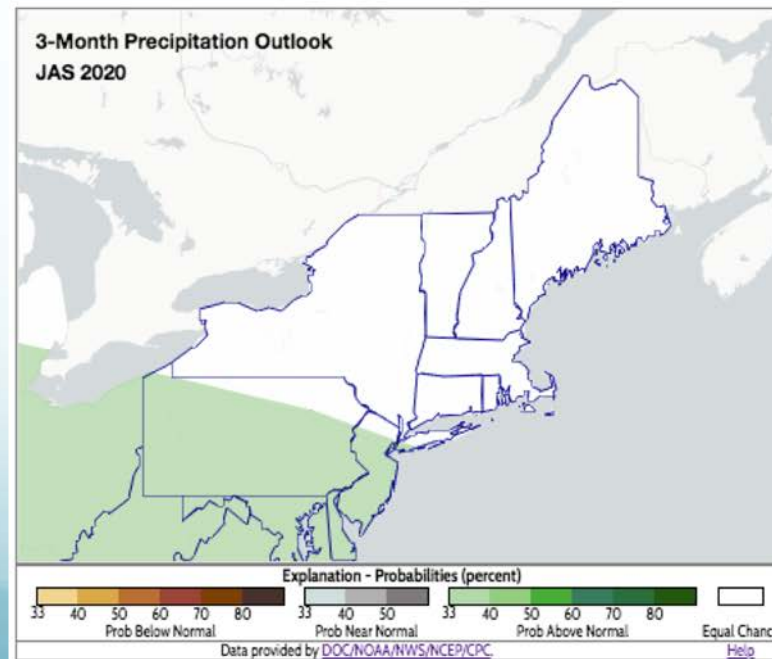
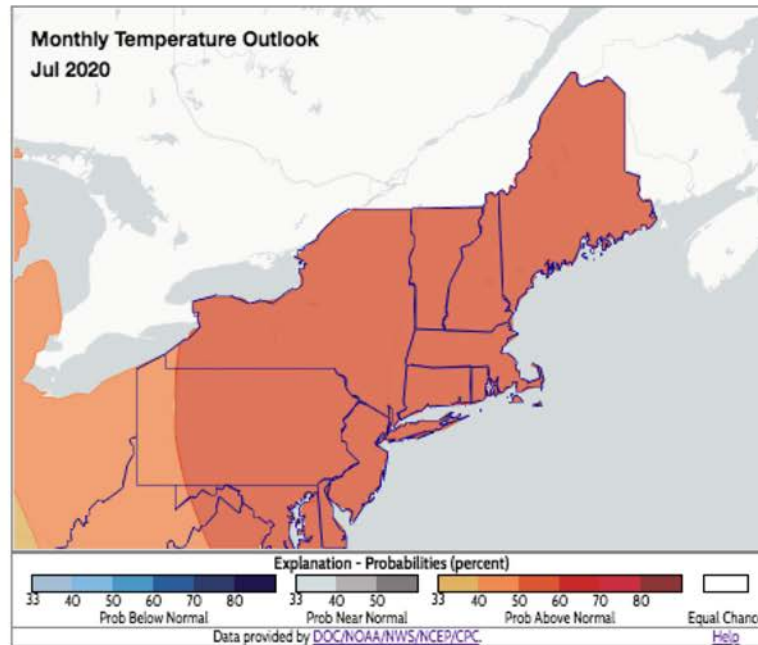
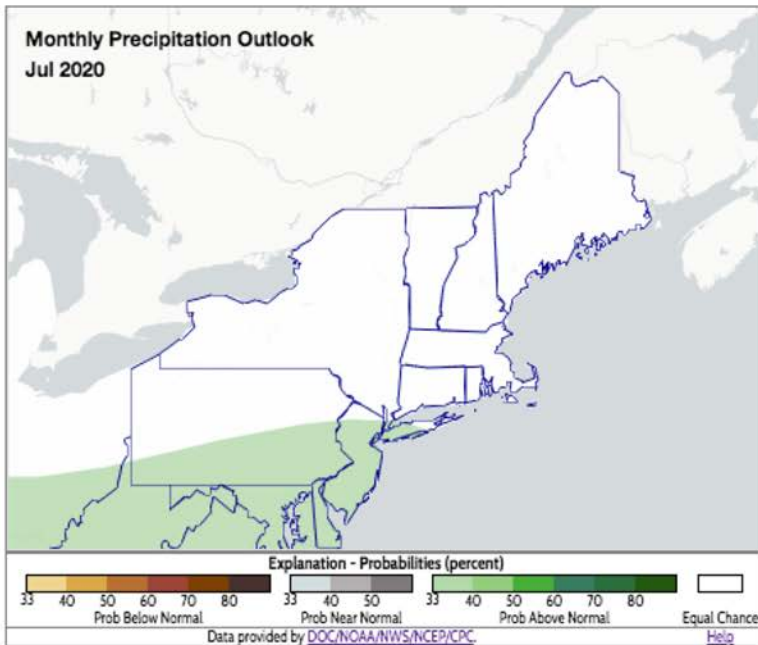
Precipitation Forecast



Short-term Outlooks



Monthly & 3-Month Outlooks



Drought Resources

Additional Resources

- Northeast DEWS Dashboard: <http://nedews.nrcc.cornell.edu/>
- Northeast Regional Climate Center: <http://www.nrcc.cornell.edu/>
- Your state climatologist: https://stateclimate.org/state_programs/
- Your local National Weather Service office: <https://www.weather.gov/srh/nws/offices>
- There are also upcoming webinars that will offer more information:
 - NOAA Regional Climate Services Monthly Webinar Series (June 30 next webinar): <http://www.nrcc.cornell.edu/workshops/webinars/2020/05/index.html>
- USDA Northeast Climate Hub: <https://www.climatehubs.usda.gov/hubs/northeast/drought-map>
- USGS/New England Water Science Center: <https://www.usgs.gov/centers/new-england-water> and <https://www.usgs.gov/centers/ny-water>

Contacts for More Information

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Upcoming Webinars

- Thursday, July 30 at 9:30am
 - EDDI (Evaporative Demand Drought Index)
- Thursday, August 27 at 9:30am
 - Hurricane Outlook & Season Update



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