

October Review & Northeast DEWS Discussion

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Northeast Regional Climate Center



Northeast Regional
Climate Center



October 1-3 Record Temps

| <i>Oct. 1, 2019 Maximum Temperatures (°F)</i> | | |
|---|----------|---------------------|
| Station | Max Temp | Oct. Rank (hottest) |
| Huntington, WV | 95 | 1 |
| Beckley, WV | 91 | 1 |
| Elkins, WV | 90 | 1 |
| Erie, PA | 89 | 1 |
| Syracuse, NY | 88 | 1 |
| Binghamton, NY | 82 | 2 |
| Charleston, WV | 93 | top 10 |
| Rochester, NY | 88 | top 10 |

| <i>Oct. 2, 2019 Maximum Temperatures (°F)</i> | | |
|---|----------|---------------------|
| Station | Max Temp | Oct. Rank (hottest) |
| Washington National, DC | 98 | 1 |
| Wilmington, DE | 98 | 1 |
| Baltimore, MD | 98 | 1 |
| Atlantic City, NJ | 96 | 1 |
| Newark, NJ | 96 | 1 |
| Dulles Airport, VA | 96 | 1 |
| Kennedy Airport, NY | 95 | 1 |
| LaGuardia Airport, NY | 95 | 1 |
| Allentown, PA | 93 | 1 |
| Islip, NY | 89 | 1 |
| Philadelphia, PA | 95 | 2 |
| Huntington, WV | 94 | 2 |
| Central Park, NY | 93 | 2 |
| Beckley, WV | 89 | 2 |
| Elkins, WV | 88 | 2 |
| Bridgeport, CT | 87 | 2 |
| Harrisburg, PA | 93 | 3 |

| <i>Oct. 1, 2019 Minimum Temperature Records (°F)</i> | | |
|--|-----|---------------------|
| Station | New | Oct. Rank (hottest) |
| Erie, PA | 72 | 1 |
| Beckley, WV | 68 | 1 |
| Rochester, NY | 68 | 2 |
| Huntington, WV | 70 | 3 |

| <i>Oct. 3, 2019 Maximum Temperatures (°F)</i> | | |
|---|----------|---------------------|
| Station | Max Temp | Oct. Rank (hottest) |
| Huntington, WV | 95 | 1 |
| Beckley, WV | 91 | 1 |
| Elkins, WV | 90 | 1 |
| Charleston, WV | 94 | 3 |

| <i>Oct. 2, 2019 Minimum Temperature Records (°F)</i> | | |
|--|-----|---------------------|
| Station | New | Oct. Rank (hottest) |
| Dulles Airport, VA | 69 | 3 |
| Allentown, PA | 68 | 5 |
| Washington National, DC | 73 | top 10 |
| Baltimore, MD | 72 | top 10 |
| Atlantic City, NJ | 70 | top 10 |
| Philadelphia, PA | 70 | top 10 |
| Pittsburgh, PA | 69 | top 10 |
| Harrisburg, PA | 68 | top 10 |
| Beckley, WV | 64 | top 10 |

| <i>Oct. 3, 2019 Minimum Temperature Records (°F)</i> | | |
|--|-----|---------------------|
| Station | New | Oct. Rank (hottest) |
| Dulles Airport, VA | 72 | 2 |
| Washington National, DC | 73 | top 10 |
| Beckley, WV | 65 | top 10 |

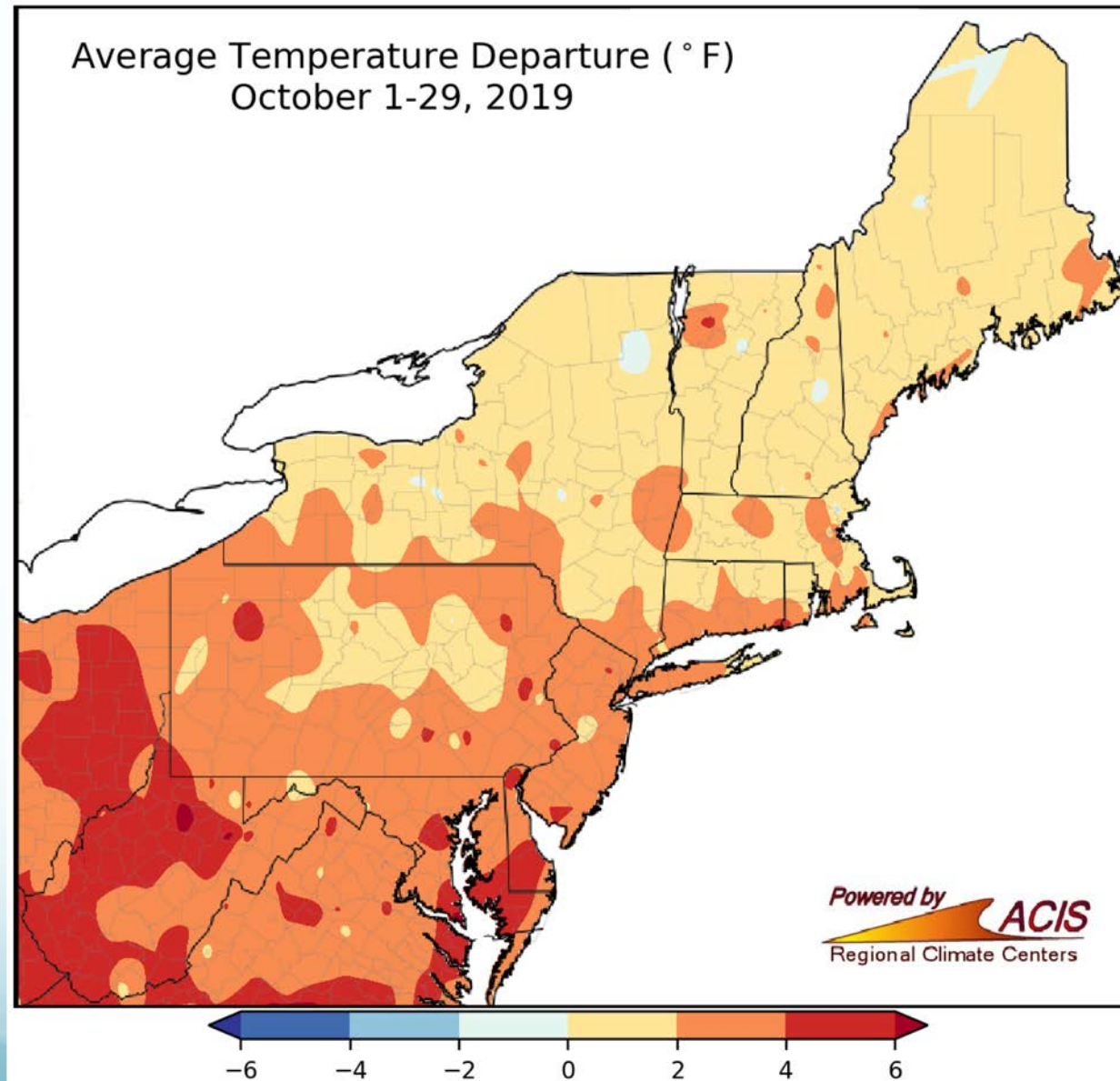
15 major climate sites had hottest October day on record

First time on record that Beckley and Elkins had a 90°F day in October & latest in the calendar year that either site had a 90°F day

Minimum temperatures ranked as the hottest on record for October in Erie and Beckley



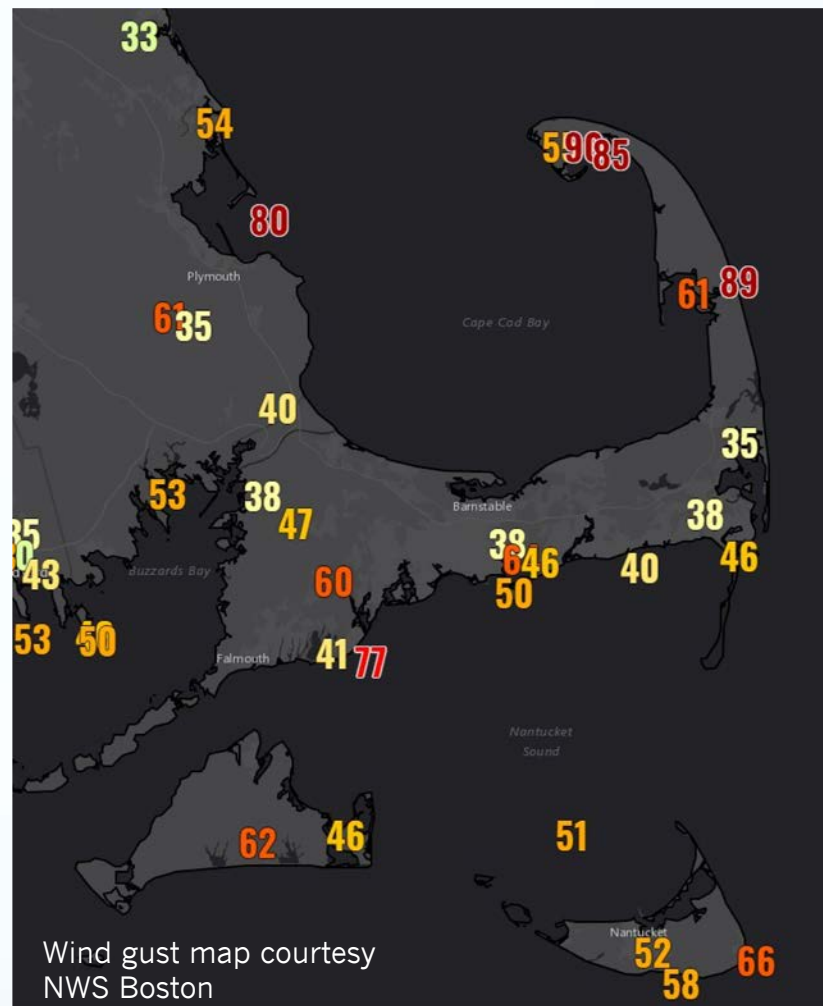
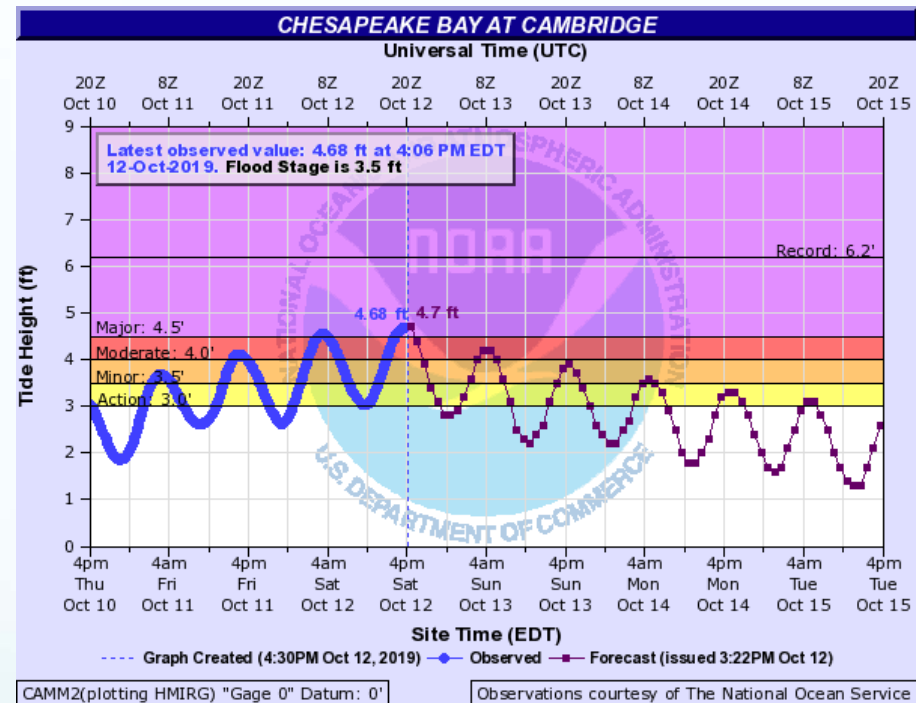
October Temperatures



From near normal to 6°F above normal



October Coastal Storms



Oct 8-12: Major tidal flooding for few sites along Chesapeake Bay

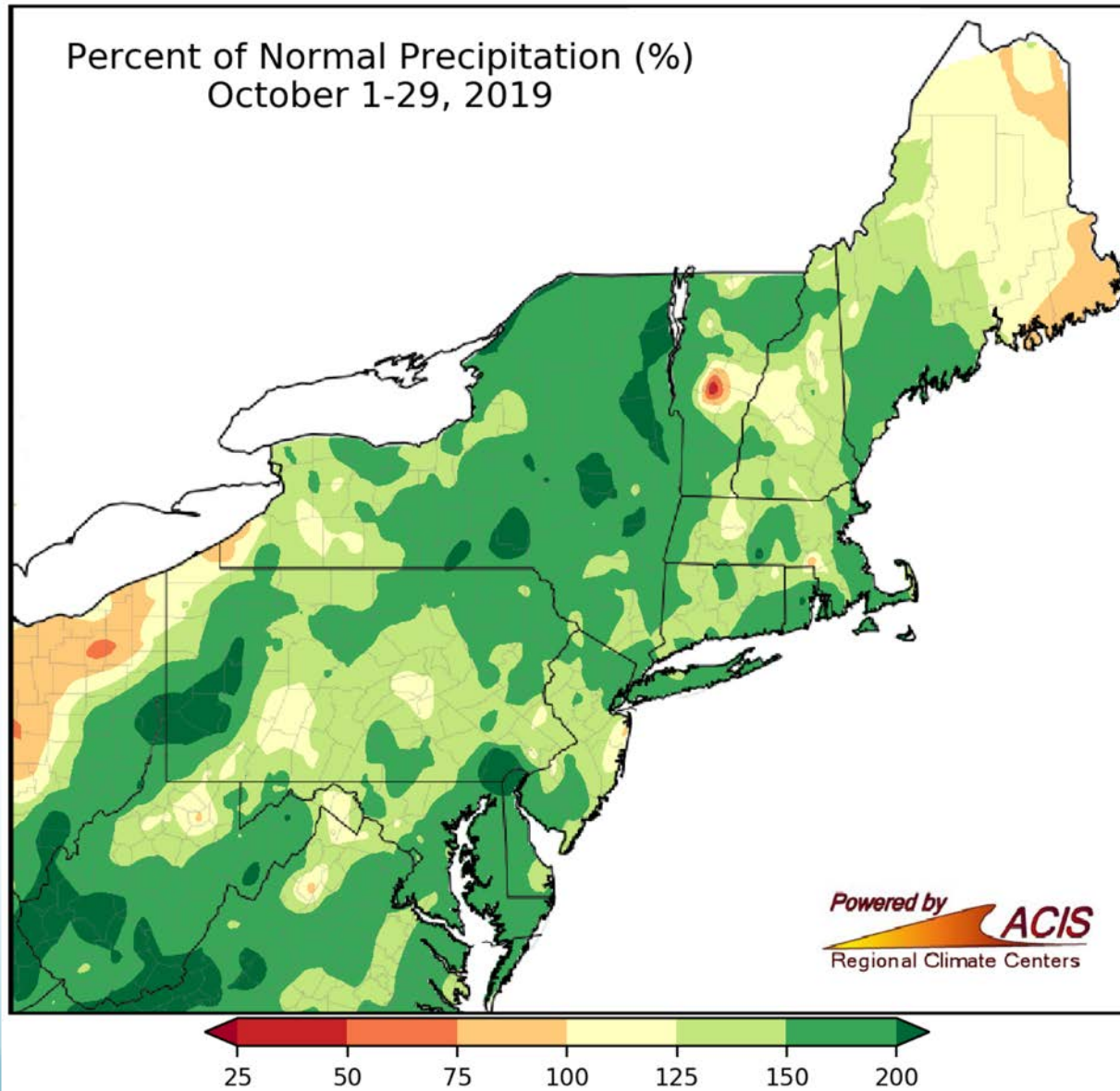
Oct 16-17:

- Lowest October sea level pressure - Boston, Hartford, Providence, & Portland
- Wind gusts to 90 mph; 400,000+ customers lost power in Mass./Maine
- Rain totals of 4-6"



Oct 20-21: remnants of T.S. Nestor brought wind/rain to southeastern part of region

October Precipitation



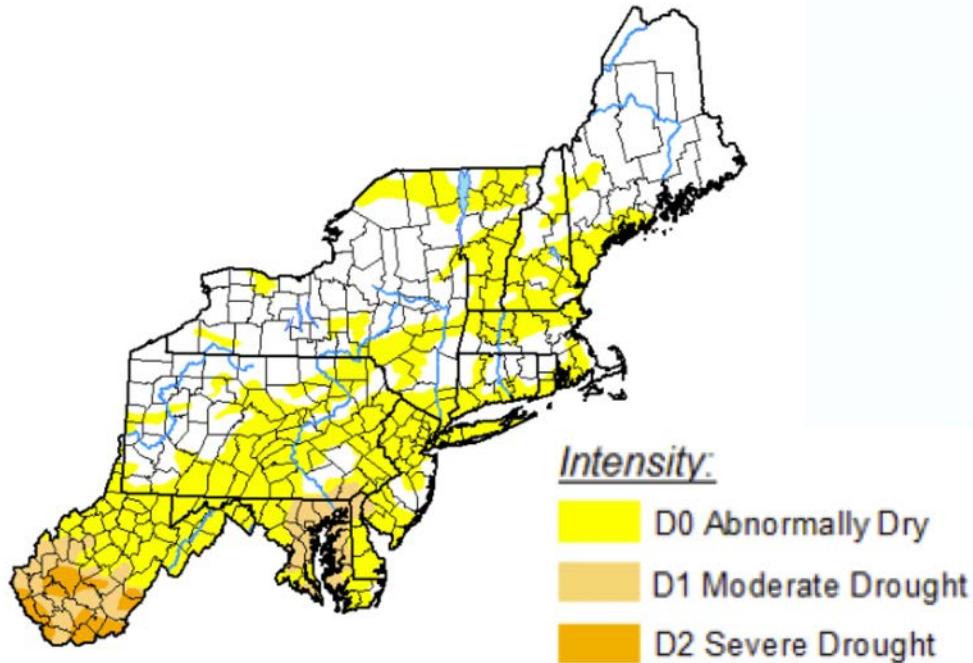
From 75% of normal to more than 200% of normal

Drought Monitor

October 1, 2019

(Released Thursday, Oct. 3, 2019)

Valid 8 a.m. EDT

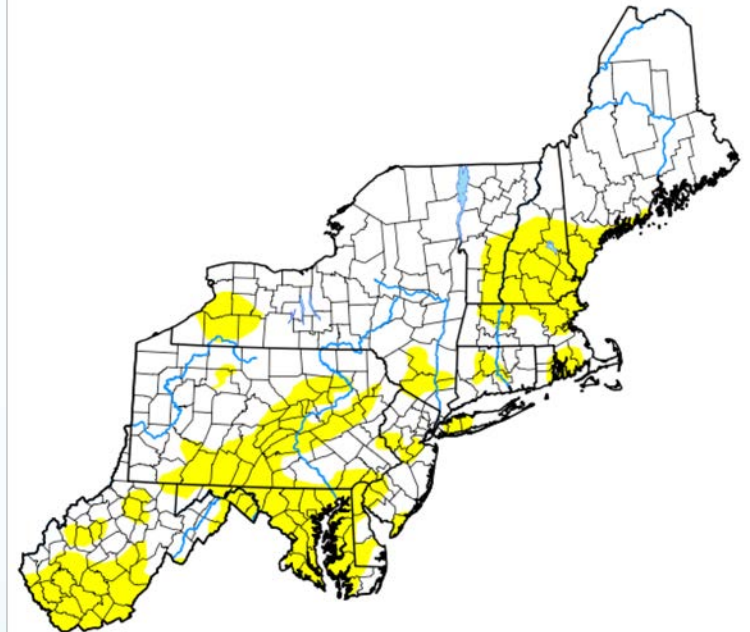


At the beginning of October, 43% of the region was abnormally dry and 8% was in moderate or severe drought

October 29, 2019

(Released Thursday, Oct. 31, 2019)

Valid 8 a.m. EDT

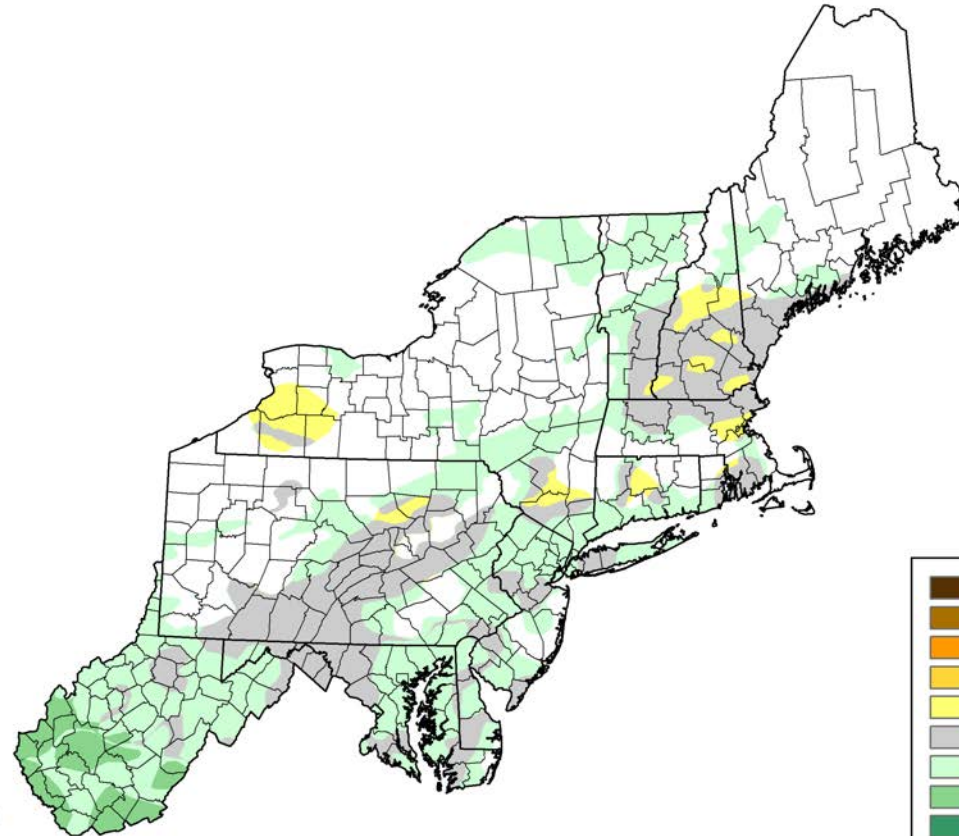


By the end of October, 30% was abnormally dry and no drought was present



Change Map

U.S. Drought Monitor Class Change - Northeast 1 Month



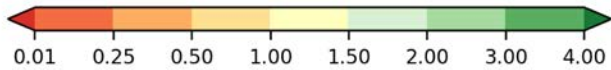
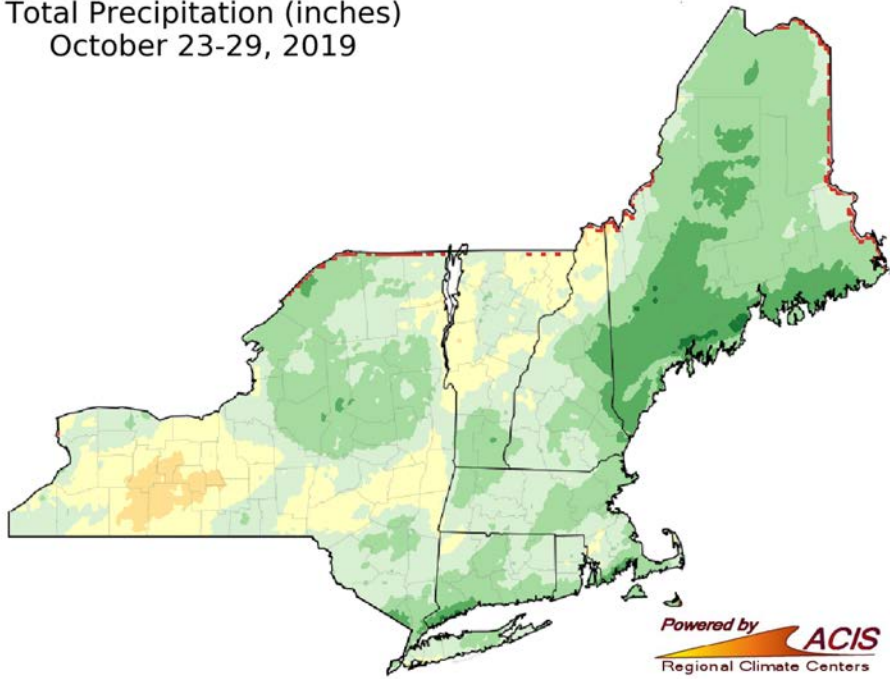
October 29, 2019
compared to
October 1, 2019



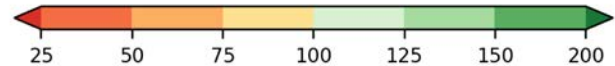
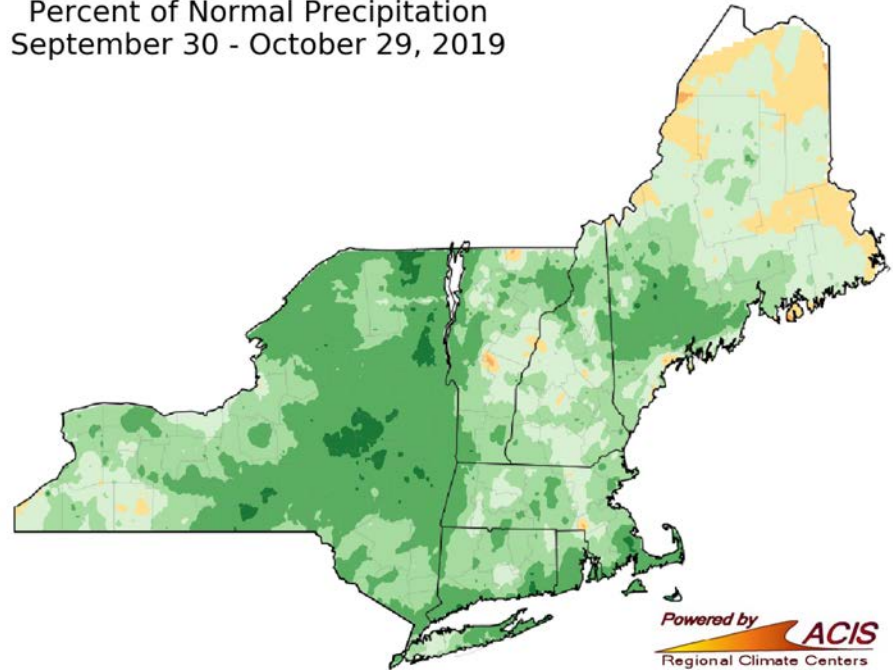
droughtmonitor.unl.edu



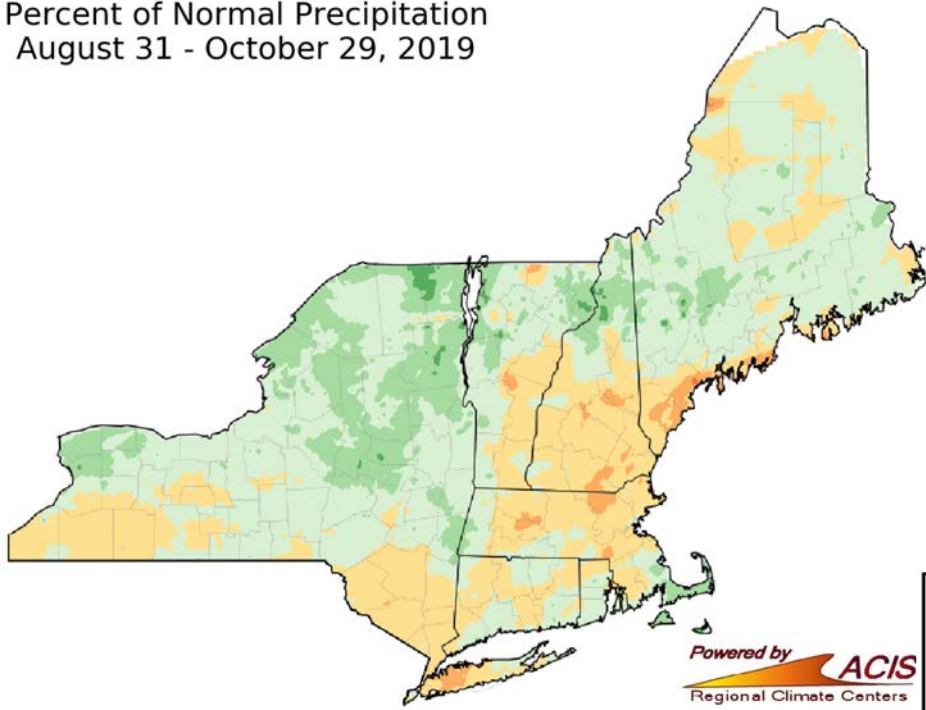
Total Precipitation (inches)
October 23-29, 2019



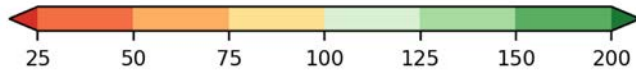
Percent of Normal Precipitation
September 30 - October 29, 2019



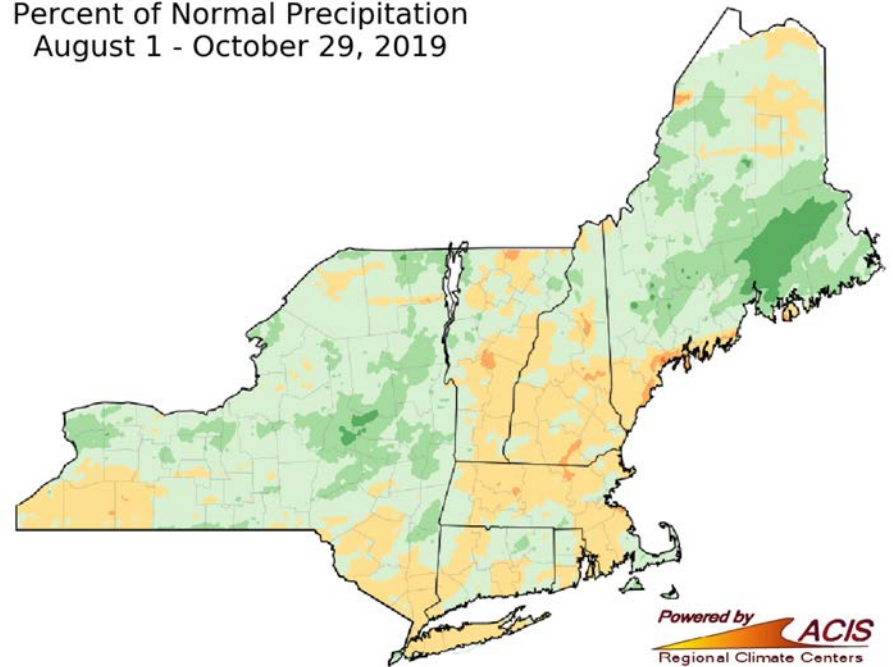
Percent of Normal Precipitation
August 31 - October 29, 2019



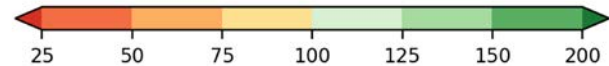
Powered by **ACIS**
Regional Climate Centers

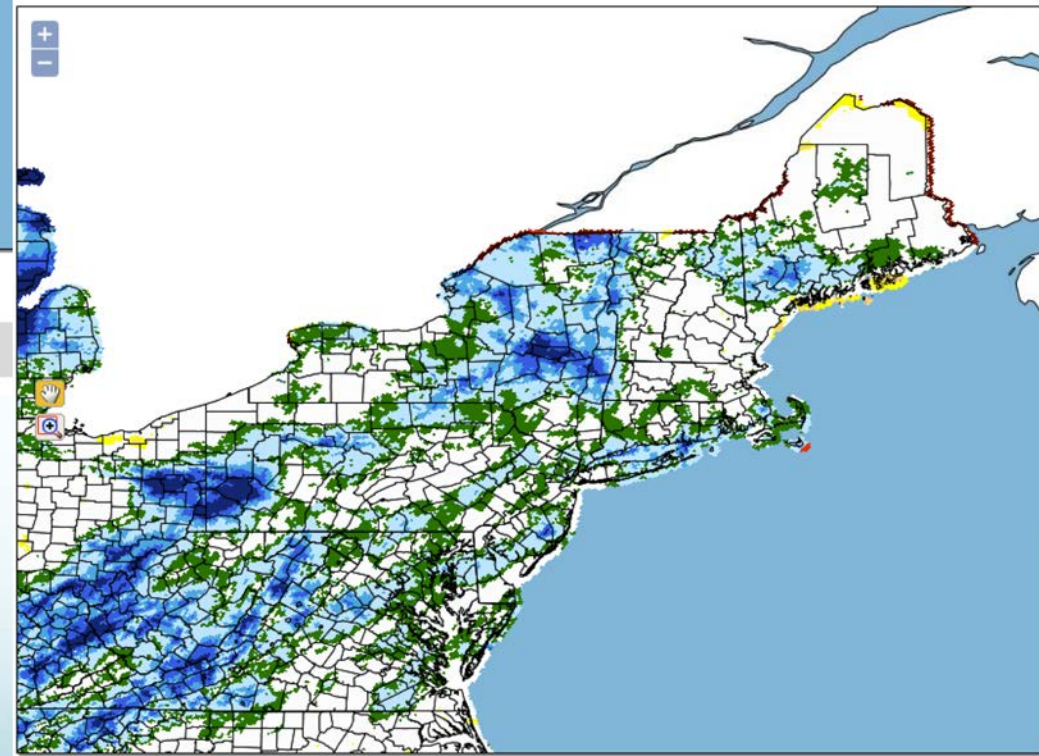
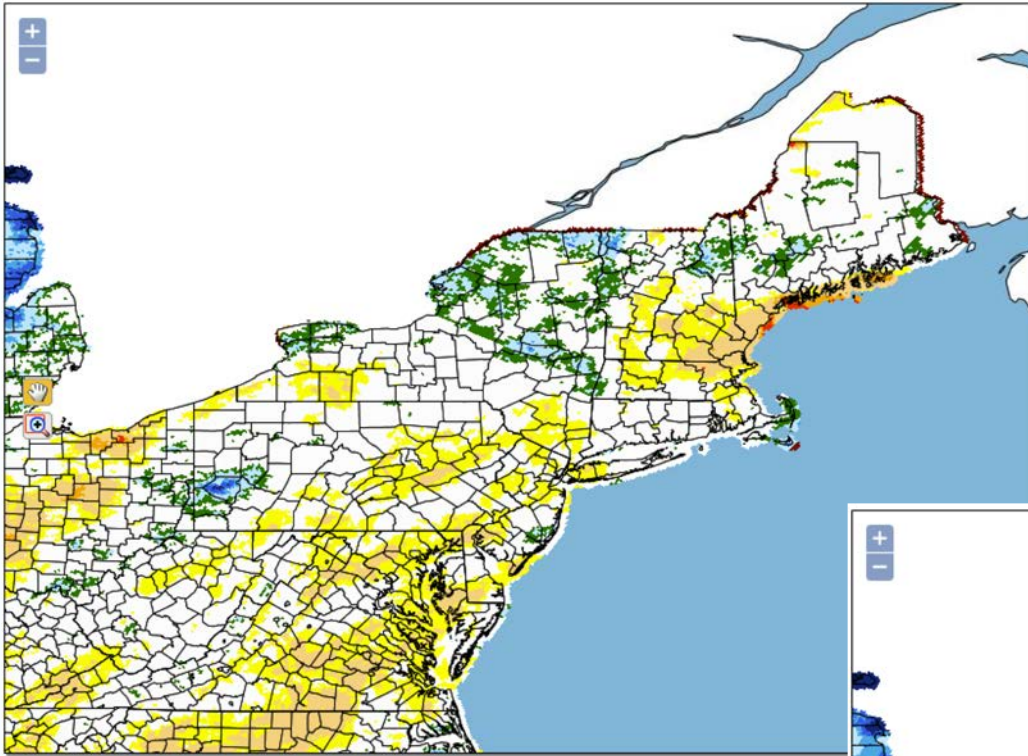


Percent of Normal Precipitation
August 1 - October 29, 2019



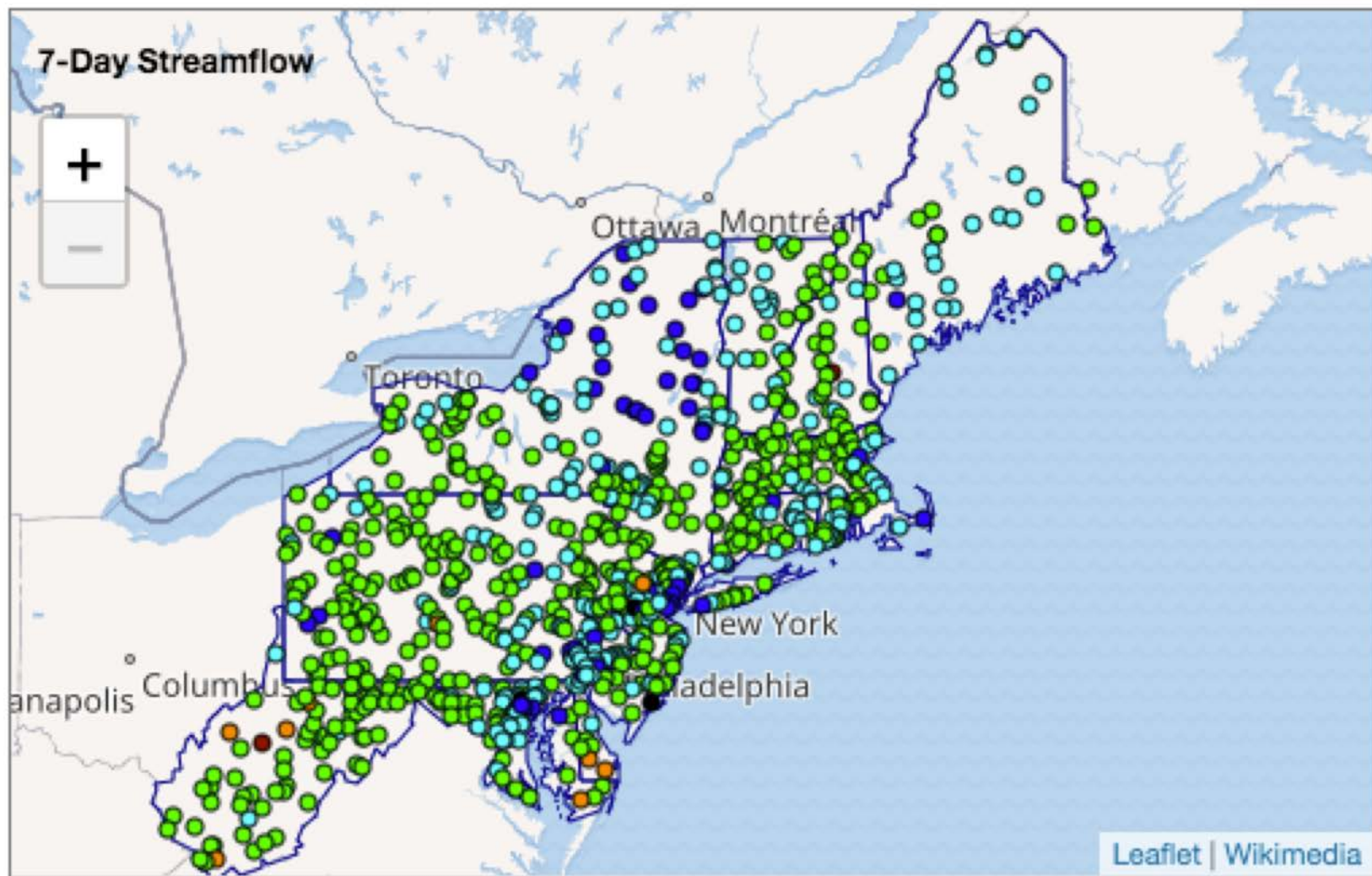
Powered by **ACIS**
Regional Climate Centers





Transparency:

DOWNLOAD
GEO TIFF

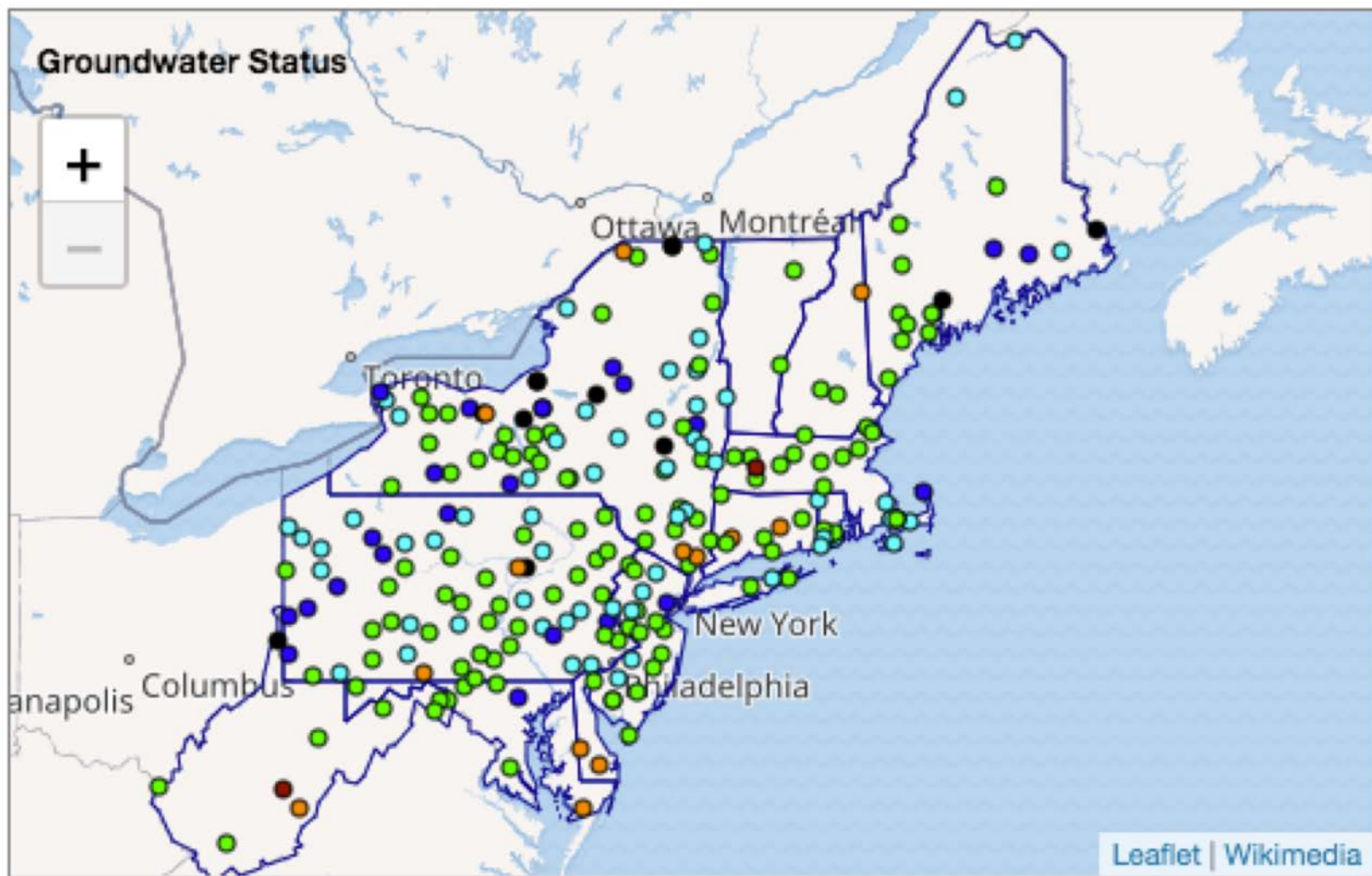


Explanation - Percentile Classes

| | | | | | | | |
|-----|-------------------|--------------|--------|--------------|-------------------|------|--|
| | | | | | | | |
| 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 WaterWatch - Streamflow](#).





Explanation - Percentile Classes

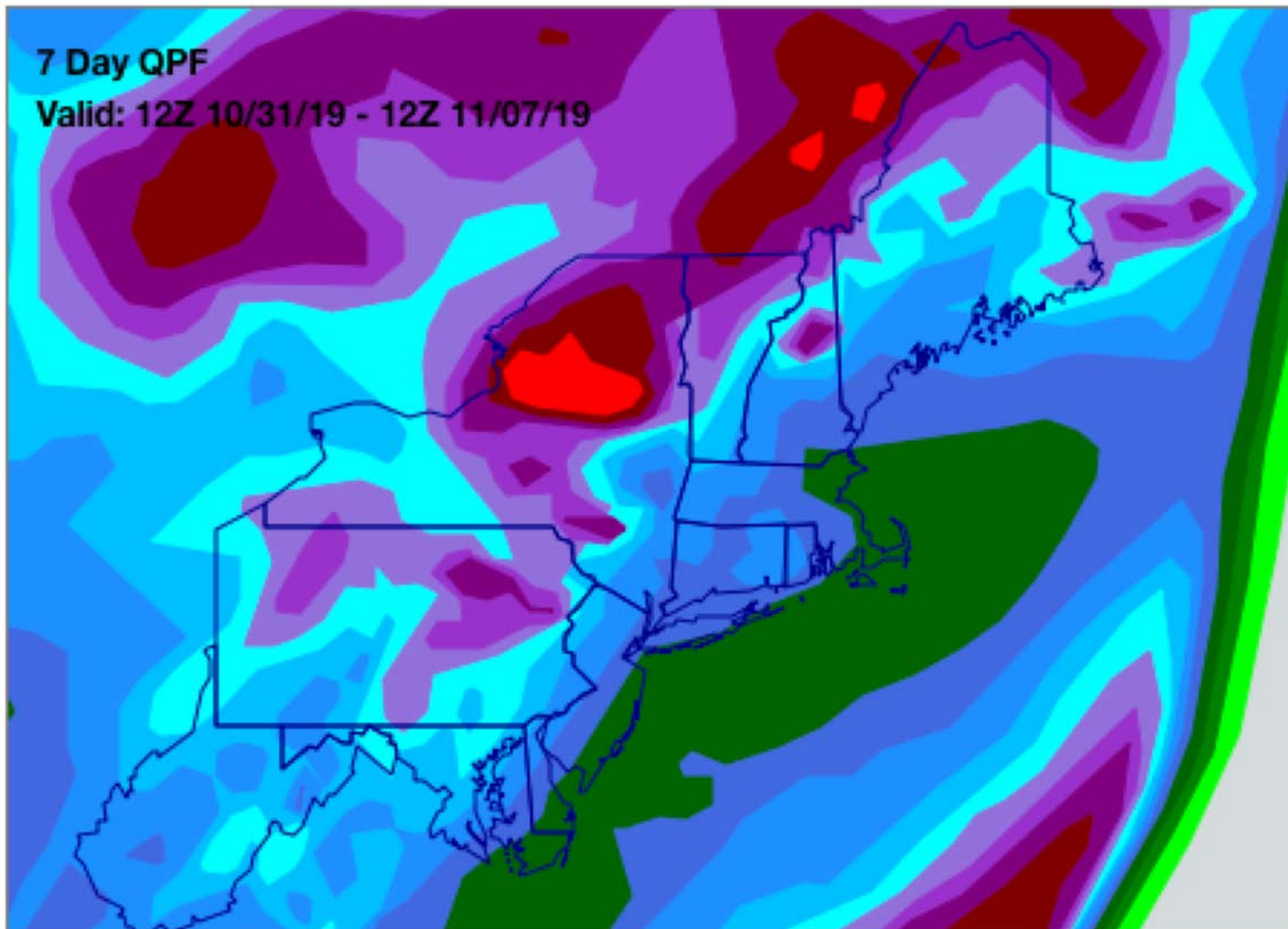
| | | | | | | |
|-----|-------------------|--------------|--------|--------------|-------------------|------|
| | | | | | | |
| Low | Much below normal | Below normal | Normal | Above normal | Much above normal | High |
| | <10% | 10-24% | 25-75% | 76-90% | >90% | |

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



7 Day QPF

Valid: 12Z 10/31/19 - 12Z 11/07/19



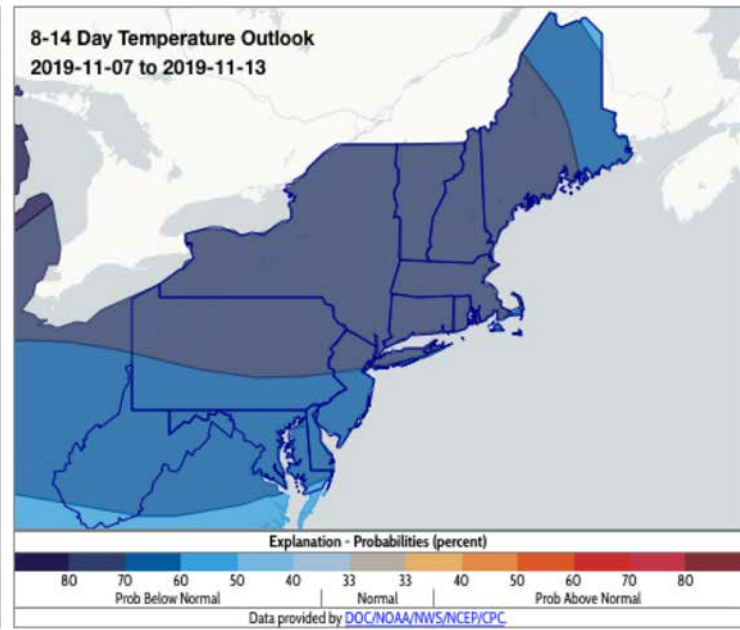
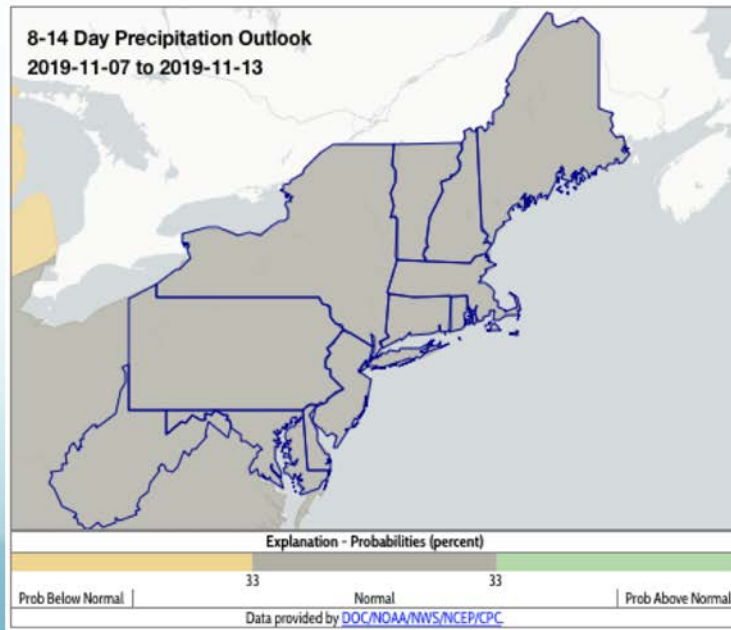
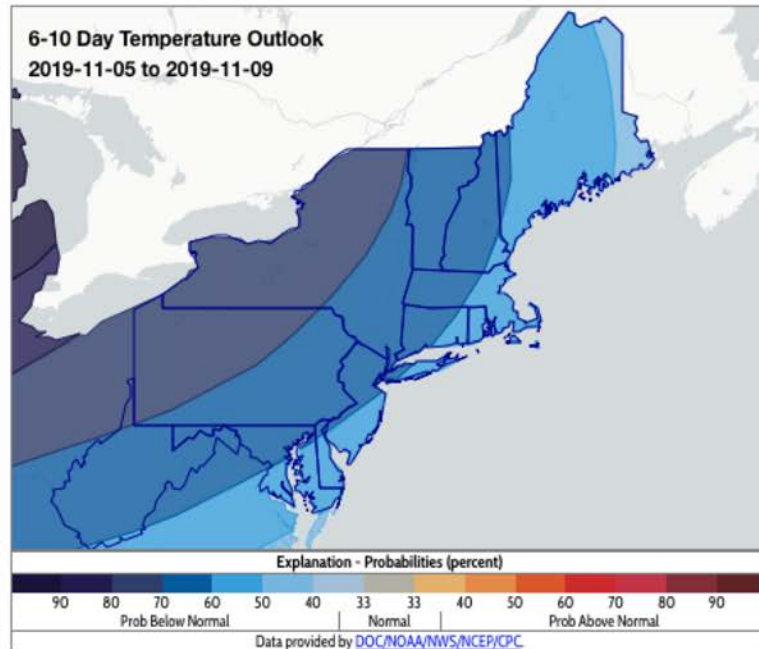
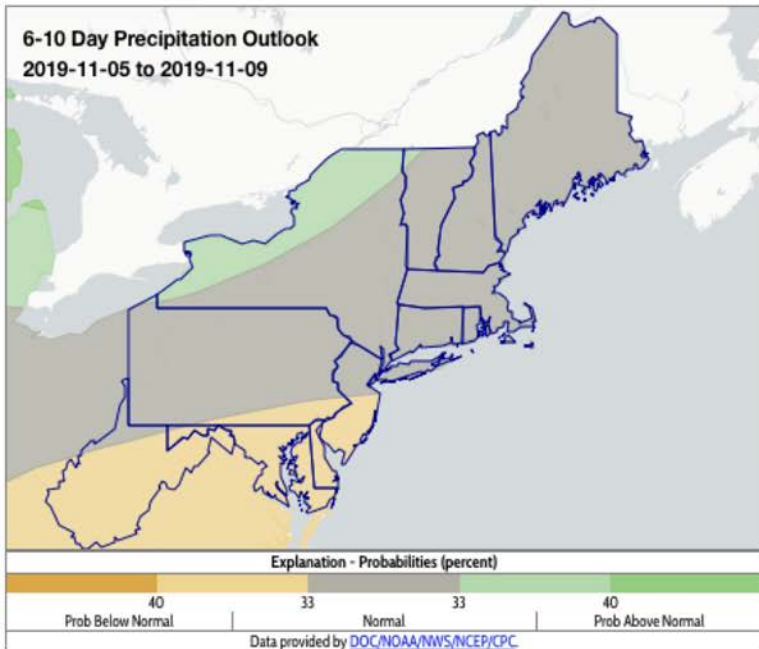
Explanation - Forecast precipitation (inches)



Data provided by [DOC/NOAA/NWS/NCEP/WPC](#).

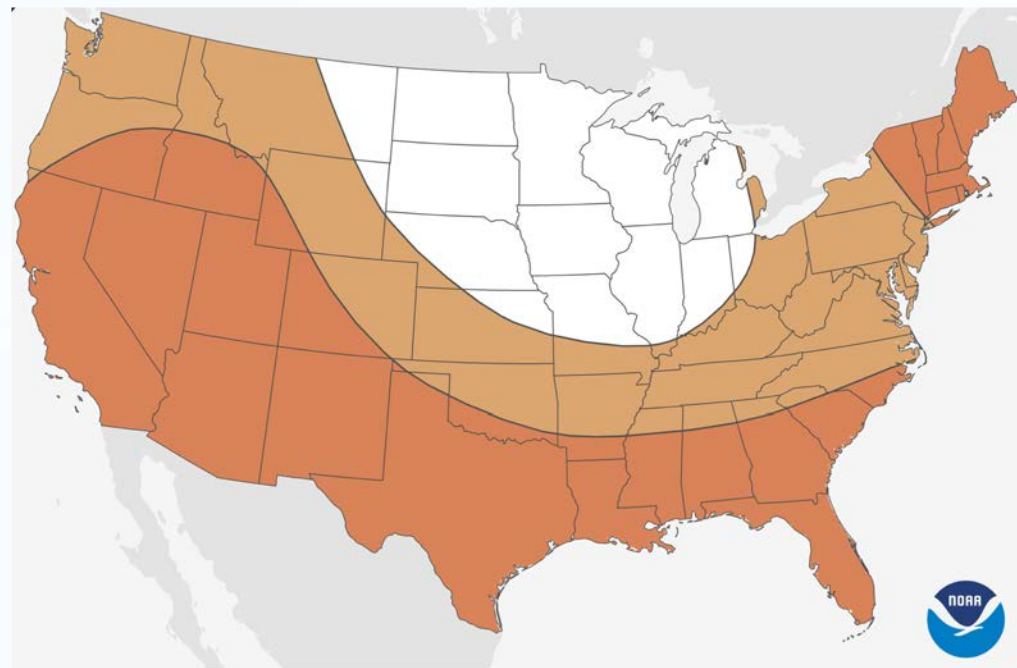


Short-term Outlooks



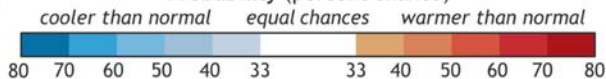
Winter Outlooks

November webinar will focus on (updated) winter outlooks and ENSO

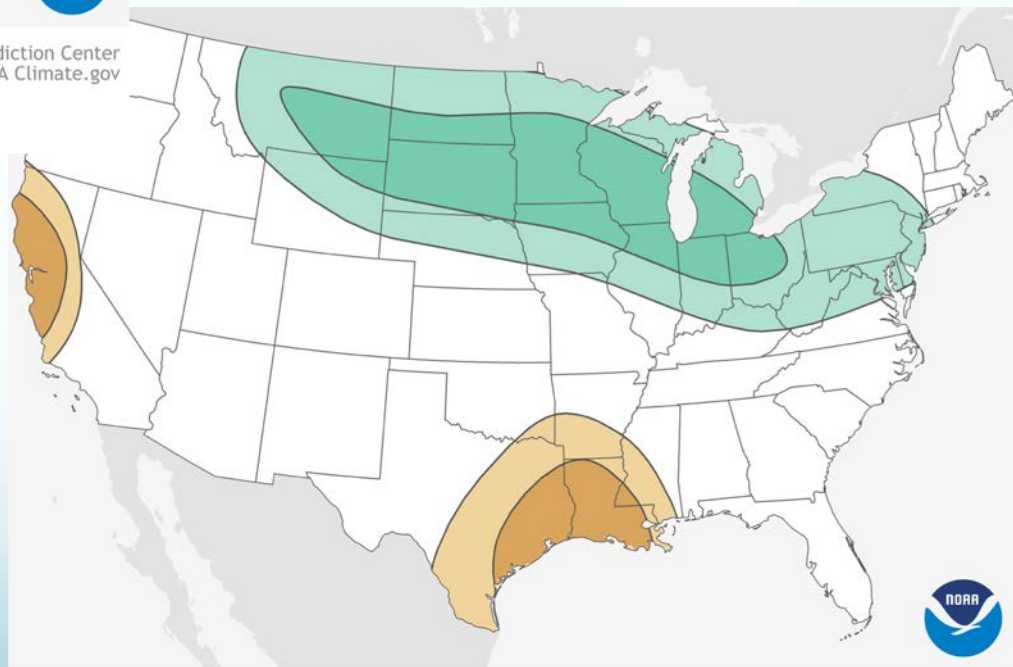


January 2020

Probability (percent chance)

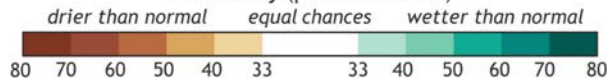


NWS Climate Prediction Center
Map by NOAA Climate.gov



January 2020

Probability (percent chance)



NWS Climate Prediction Center
Map by NOAA Climate.gov



Contact Information

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

Upcoming Webinars

- Tuesday, November 26 at 9:30am
 - ENSO Update and Winter Outlook
- Thursday, December 19 at 9:30am
 - Delaware State Climate Team

www.nrcc.cornell.edu

