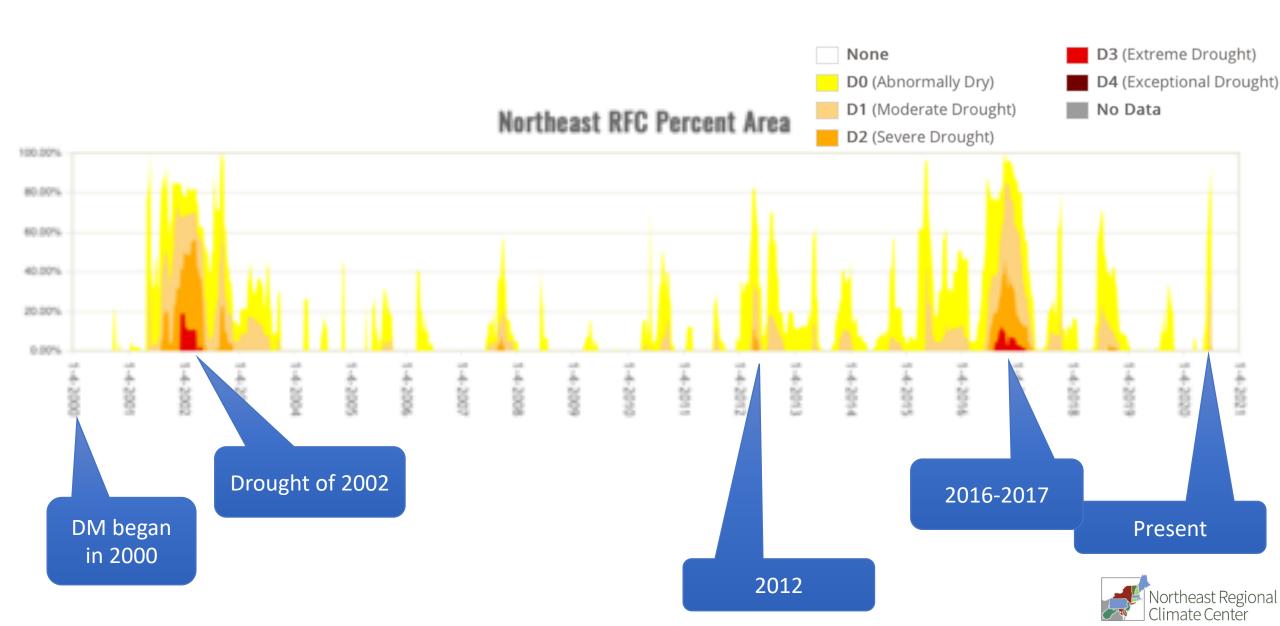
Drought: Historical & Future Trends DEWS Resources

Jessica Spaccio, Climatologist

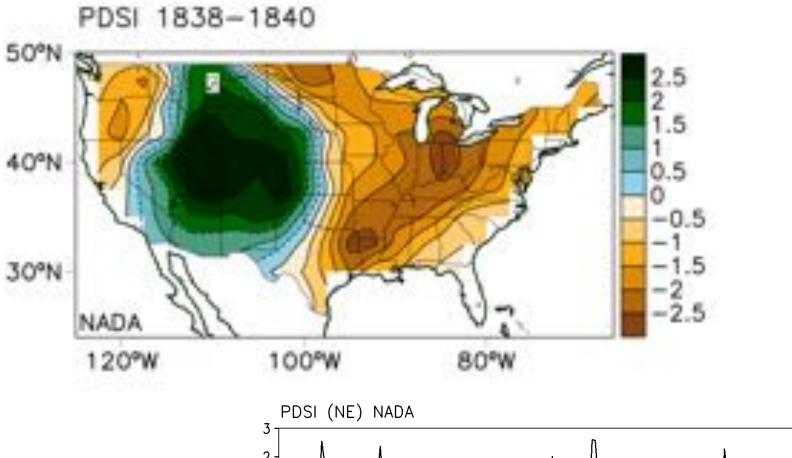
jlr98@cornell.edu

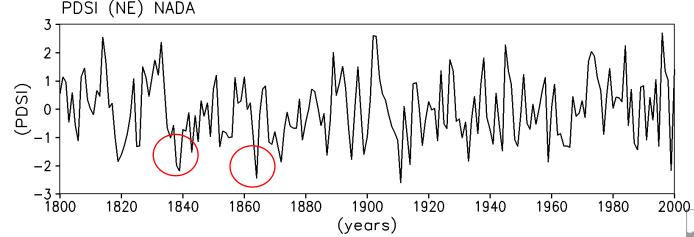


History of Drought



Droughts in 1800's





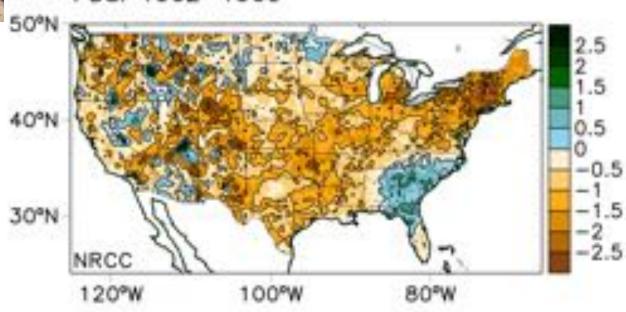
Northeast Regional Climate Center

Northeast US 1960's



Lasting from 1961-1967. Almost 50% of the Northeast was in extreme or severe drought from 1964-1967.

NYC reservoirs were down to 25% capacity.

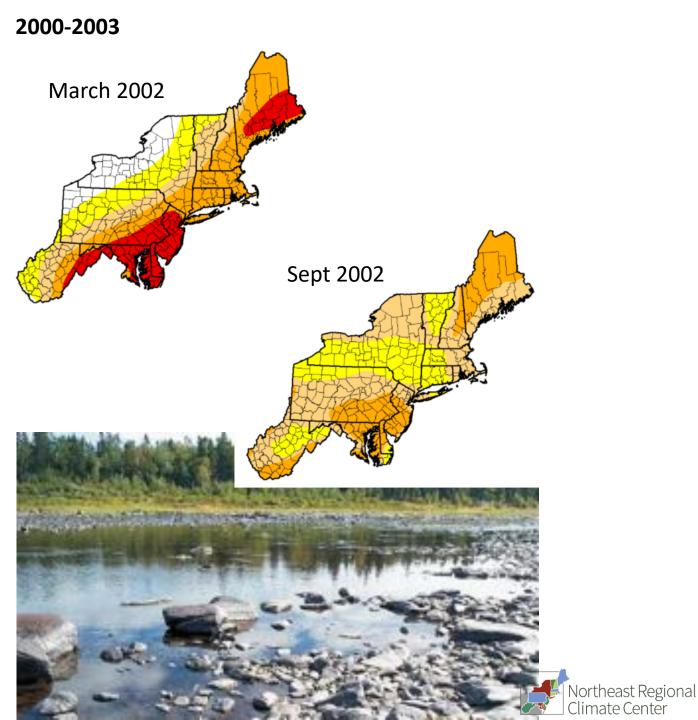






Cannonsville Reservoir in Delaware County, NY. Lower photo shows same view as upper except at 6.5% capacity (Dec 20, 2001)

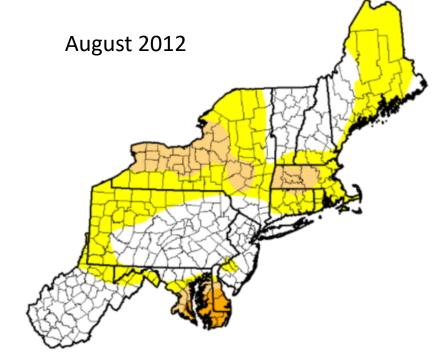
100-yr drought on the St. John River at Ninemile, Maine (September 2002).



Summer 2012



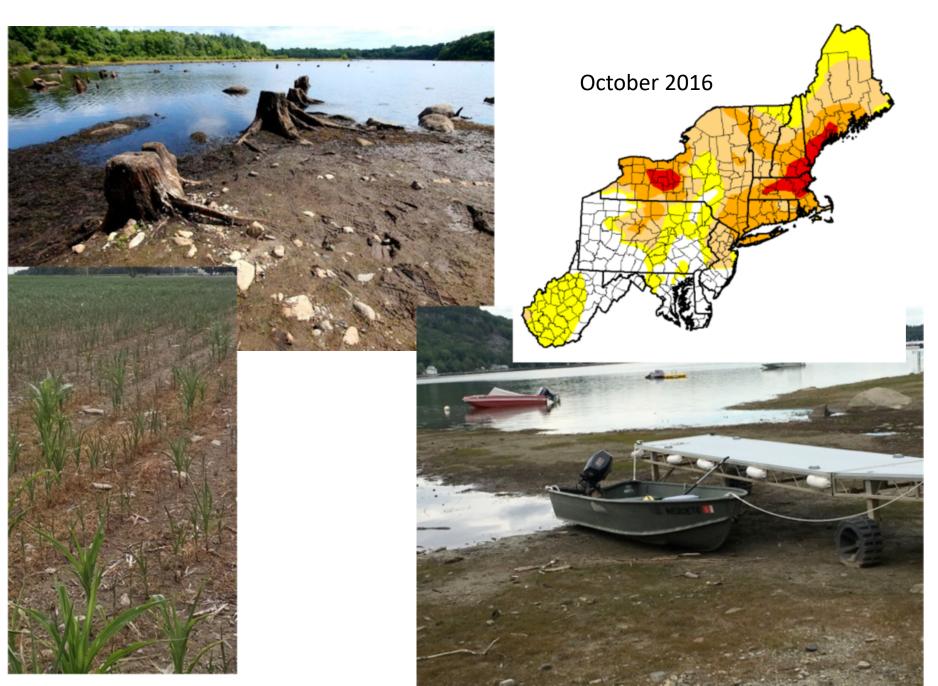








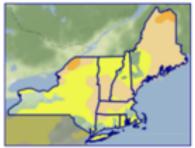
2016 Drought







http://nedews.nrcc.cornell.edu Northeast DEWS Dashboard

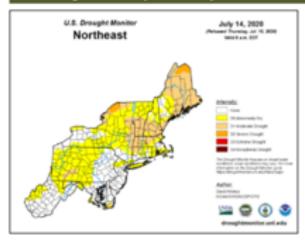


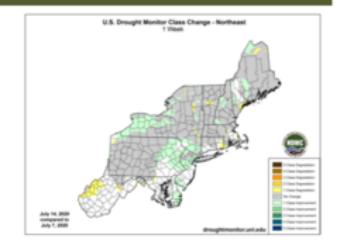
Click a state to zoom maps below

Drought Status Update

July 16, 2020 - Enough precipitation fell during the past week to prevent further deterioration in many areas and improve conditions in some areas. Many locations did not see their drought status change, but there were slight improvements in drought conditions in small portions of northwestern/western Maine, southwestern New Hampshire, and northwestern New York. The most notable change was in abnormal dryness, which is eased in parts of western/southeastern New York, western Connecticut, northern New Hampshire, and western Maine. However, moderate drought expanded in coastal Maine, while abnormal dryness expanded in eastern Connecticut and southern Rhode Island. The U.S. Drought Monitor released on July 16 showed 42% of the Northeast DEWS region in a

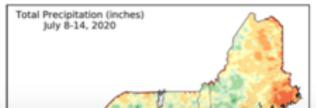
▲ US Drought Monitor (updated weekly)





▲ Last USDM Week (ending 2020-7-14) ACIS Precipitation Maps



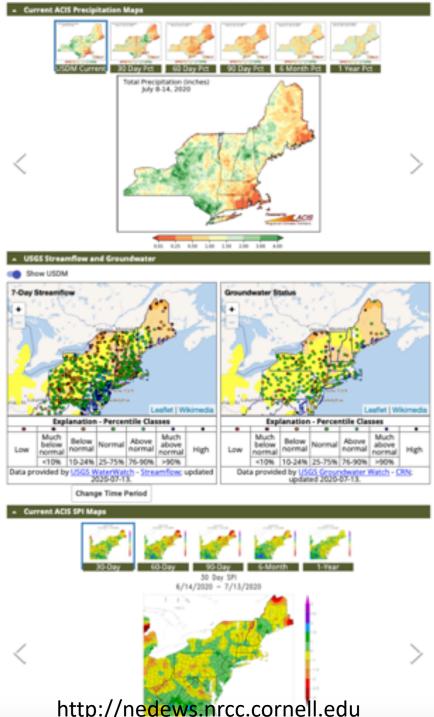




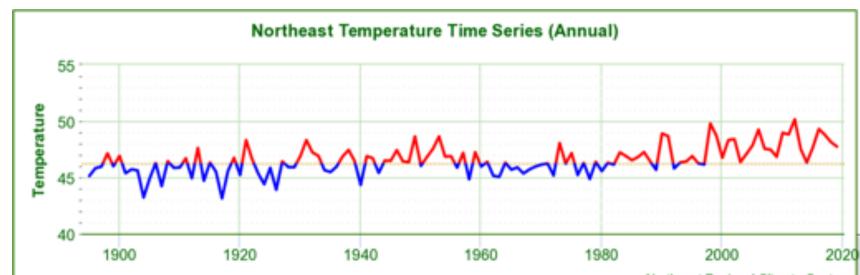
- Drought Monitor
- Precipitation
- Streamflow & Groundwater
- Drought indices
- Outlooks

2020 - low water levels in Maine

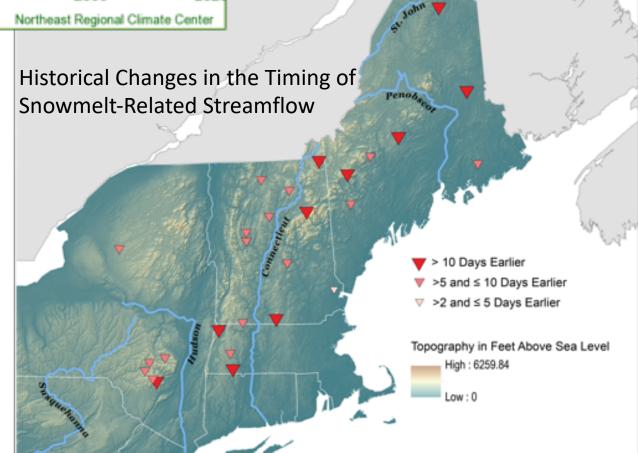








Drought is not impacted simply by precipitation.

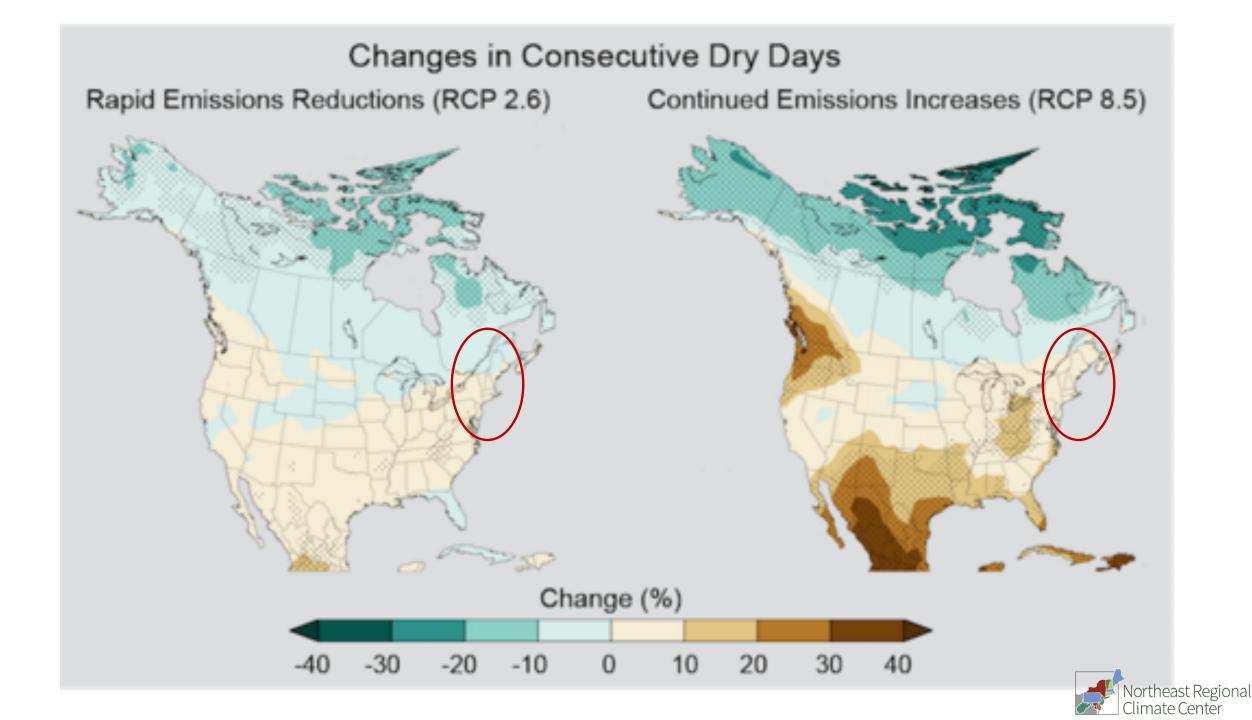






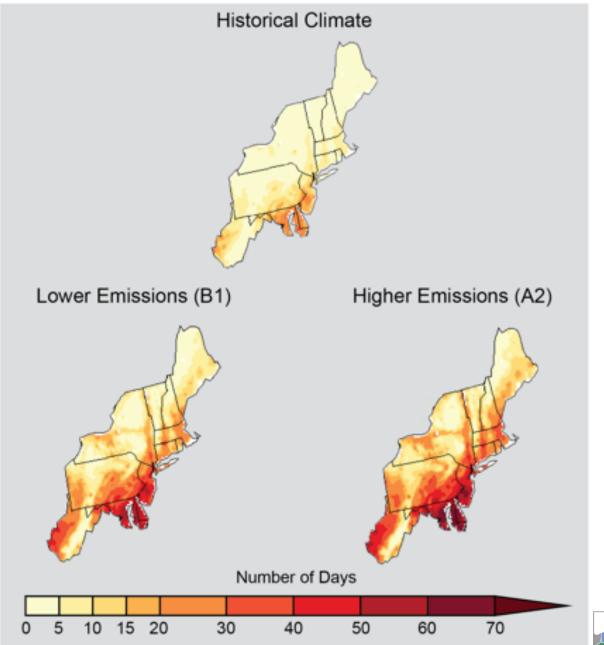
projections





Seasonal drought risk is also projected to increase in summer and fall as higher temperatures lead to greater evaporation and earlier winter and spring snowmelt.

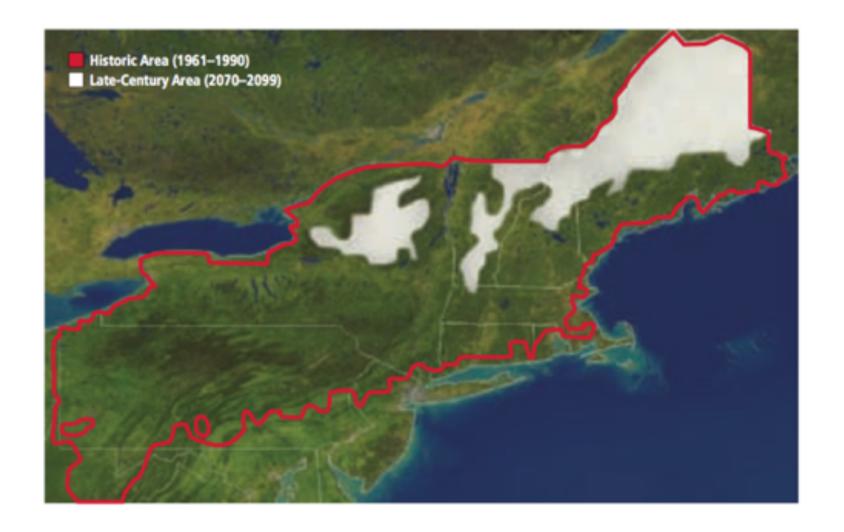
Projected Increases in the Number of Days over 90°F





Area with Snow Cover for at least 30 days

Under high emissions scenario





Droughts currently occur every 2-3 years

Number of consecutive dry days expected to increase.

Hot days expected to increase.

Decrease in snow on the ground & earlier spring snowmelt.

Summer drought is expected to increase.



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