Launch of the Northeast Drought Early Warning System (DEWS)

Jessica Spaccio, Climatologist

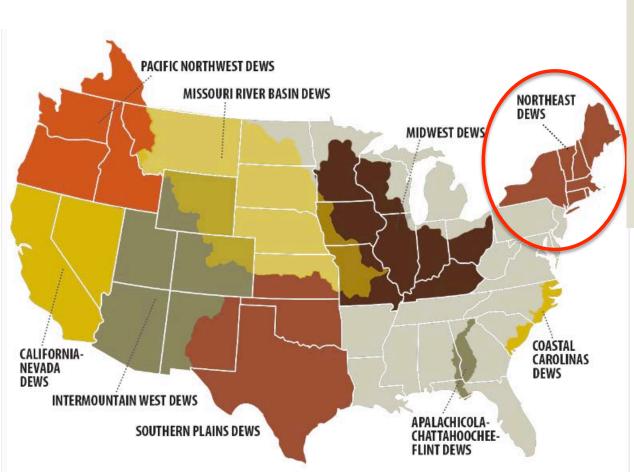


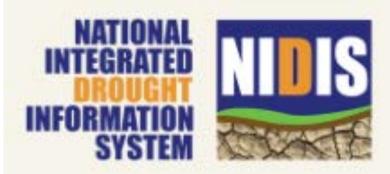






Nine Regional Drought Early Warning Information Systems (DEWS)













Land in Farms - Measured in Acres 0.0 10.0m 25.0m 50.0m 100.0m 129.8m New York 7.30m Maine 1.45m Vermont 1.25m Massachusetts 520.00k New Hampshire 470.00k

440.00k

70.00k

Connecticut

Rhode Island

Agriculture & Major Cities



New York, NY







Four Distinct Seasons

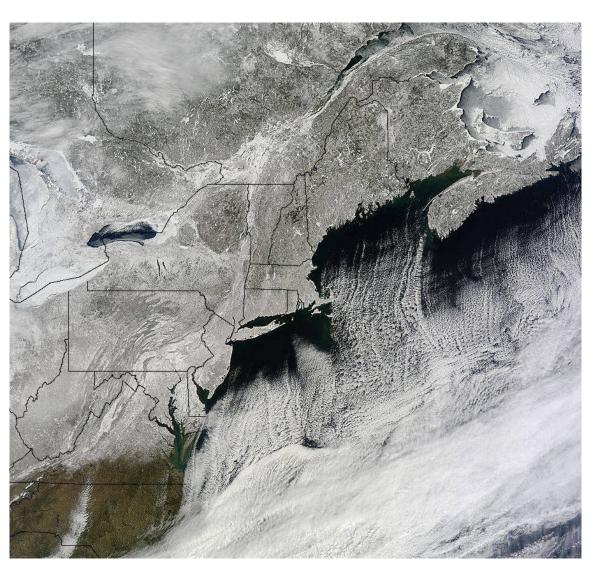








<u>Abundant Water – Atlantic Ocean & Great Lakes</u>



- Moisture source
- Nor'easters & tropical systems
- Lake-effect precipitation

















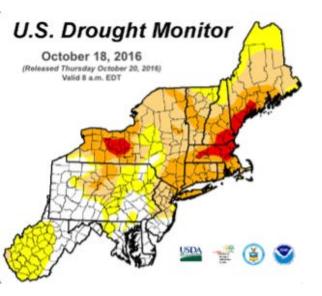






Meetings

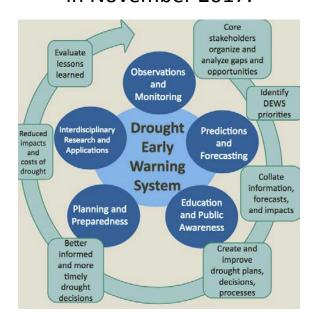
Forum in October 2016 to discuss conditions & outlooks.



Assessment workshops in February/March 2017.



Strategic planning meeting in November 2017.









Components of a Drought Early Warning System

Observations and Monitoring Interdisciplinary Drought **Predictions and** Research and **Forecasting Early Applications** Warning System Planning and **Education and** Public **Preparedness Awareness**





NIDIS



Determining priorities and actions of the Northeast DEWS.



Observations and Monitoring

Need for Ag Self-Monitoring of Quality & Quantity



Crowd-sourced Observations

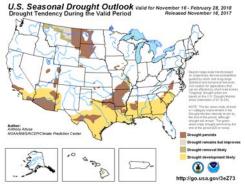




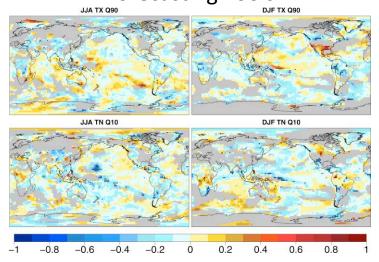


Predictions
And
Forecasting

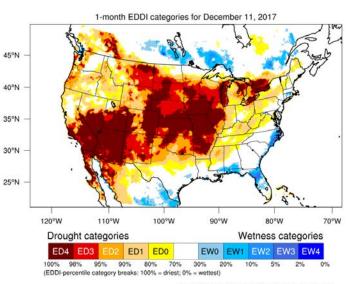
Improve Drought Outlooks



New Long-Lead Forecasting Tools



Better Access to & Understanding of Tools









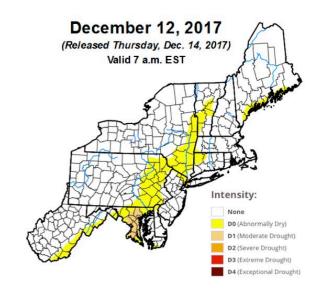


Increase Public
Drought Awareness/
Public Service
Announcements



Education And Public Awareness

Consistent Messaging



Increased Public Knowledge of Restricted Activities

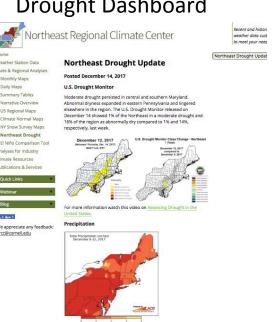








Drought Dashboard



Consider Adaptation Opportunities

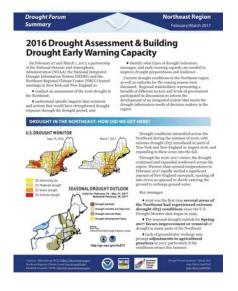
Remont of Naveral Precipitation September 14 - December 12, 2017



Strategic Plan

Planning and Preparedness

Post-Drought Assessments & **Studies**



Create Emergency Drought Plans



Better Access to Water Supply Data









Interdisciplinary Research and

Applications

Links Between
Drought & Water
Quality



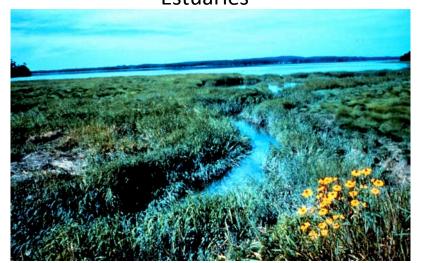
Flash Drought Research



Harmful Algal Bloom Studies



Impacts on Coastal Areas/Saltwater Estuaries











Contact Information

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This drought is getting really bad.
Today at lunch, my waiter asked if I
wanted a glass of water or a future for
my children.