



Photo by Karrah Kwasnik

# NORTHEAST CLIMATE HUB

.....  
**74%**

**INCREASE IN EXTREME RAIN  
EVENTS FROM 1958 TO 2010**  
DEFINED AS THE HEAVIEST 1% OF ALL DAILY EVENTS

.....  
**24%**

**OF OUR NATION'S COMMUNITY  
SUPPORTED AGRICULTURE (CSA)  
PROGRAMS ARE LOCATED IN THIS REGION**

.....  
**21%**

**OF LAND IN OUR REGION IS  
COMPRISED OF FARMLAND**  
WHICH GROSSED \$21 BILLION IN 2012 CROP VALUE

## - OUR MISSION -

The USDA Northeast Climate Hub facilitates the communication of science-based knowledge and practical information to best help farmers and forest landowners manage their lands and production systems in response to a changing climate. We have partnered with universities and other government agencies in order to provide the vital resources necessary to enable climate-smart decision making. Reach out to our team to learn how implementing various adaptation and mitigation techniques could benefit your crops, land, and future.





## NORTHEAST FEATURE

### HOW CHANGING CLIMATE IMPACTS OUR CRANBERRY PRODUCTION



Photo by Keith Weller, USDA

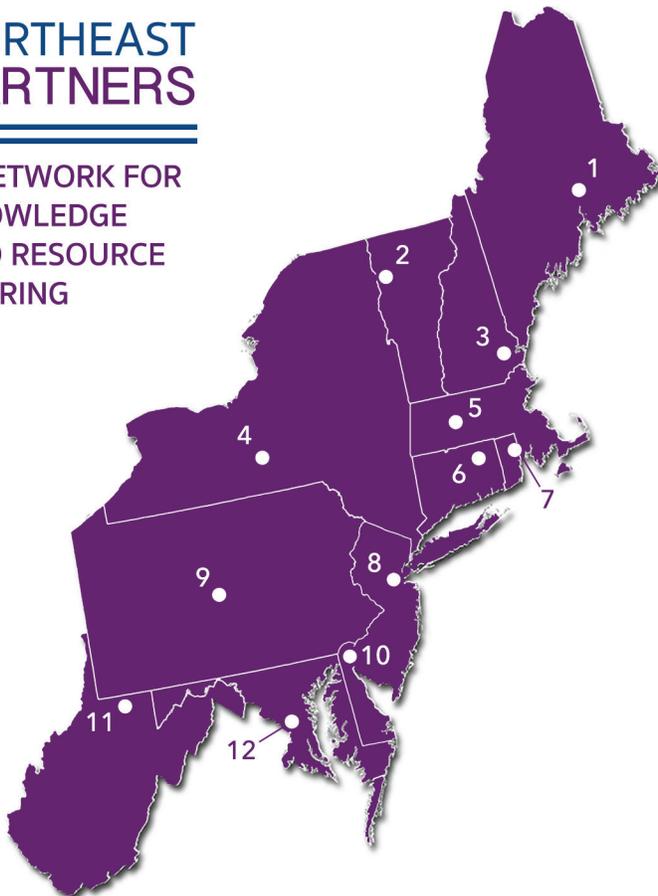
Moderate rises in temperature pose a serious threat to the Northeast’s cranberry industry, as production has occurred for close to two hundred years. The natural plant cycle and long-term sustainability of cranberry production in lower-latitude regions, such as New Jersey, may be threatened. Rising tides and violent storms may also enhance the risk of salt spray across cranberry fields, which may increase irrigation needs and pose a greater demand on surface water resources. In addition, precipitation increases may

impact water quality as elevated nitrogen and phosphorus losses have been associated with large summer storms. Developing management strategies to sustain production in the face of climate change is a research focus. In New Jersey, new cranberry strains are being cultivated that are more heat resistant and better adapted to warmer weather. Also, in Massachusetts, where excess nitrogen impairs water resources, current research seeks to reduce nutrient run off by developing new drainage management practices. Through proper understanding and research, our region will be able to mitigate the impacts of climate change on our cranberry industry.

HOW IS CLIMATE IMPACTING YOUR PRODUCTION OPERATIONS? LET US KNOW ON TWITTER AT @USDACLIMATEHUBS

## NORTHEAST PARTNERS

### A NETWORK FOR KNOWLEDGE AND RESOURCE SHARING



### UNIVERSITY

- University of Maine (1)
- University of Vermont (2)
- University of New Hampshire (3)
- Cornell University (4)
- University of Massachusetts (5)
- University of Connecticut (6)
- University of Rhode Island (7)
- Rutgers University (8)
- Penn State University (9)
- University of Delaware (10)
- Deleware State University
- West Virginia University (11)
- West Virginia State University
- University of Maryland (12)
- University of Maryland Eastern Shore
- University of the District of Columbia

### GOVERNMENT

- USDA Agricultural Research Service
- USDA Natural Resources Conservation Service
- USDA Forest Service
- DOI Northeast Climate Science Center
- NOAA Northeast Regional Climate Center