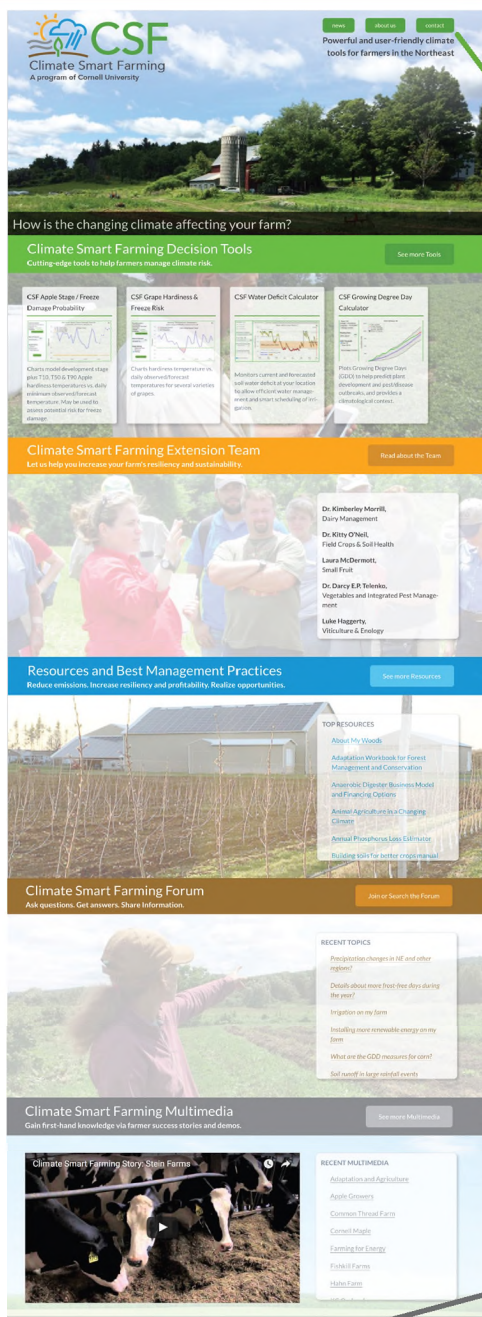


## The Cornell Climate Smart Farming Website

The CSF Website was built to serve farmers, extension educators, and agricultural consultants in the Northeastern United States, and provides powerful, free, and user-friendly decision tools, resources and other CSF-specific features at: [www.climatesmartfarming.org](http://www.climatesmartfarming.org).

### Decision Tools, Resources, and Extension Support in a Changing Climate



The CSF homepage is laid out vertically in easy-to-navigate key sections. You can scroll from top to bottom to explore our:

CSF News Updates, "About Us" Page, and Contact Information

CSF Decision Tools

CSF Cooperative Extension Team

CSF Resources and Best Management Practices

CSF Online Farmer Forum

Multimedia: Photos and Farmer Videos

Search Bar and Social Media Links



## The Climate Context for Your Farm

Farms in the Northeast are increasingly dealing with the challenges of extreme weather, climate variability and change. The Climate Preparedness page of the CSF website outlines the impacts of issues such as flooding and extreme rainfall, short-term drought, heat stress, freeze risk, and pest and disease pressures, and provides suggestions for possible solutions.

### How is the changing climate affecting your farm?

[Climate](#)[Tools](#)[Team](#)[Resources](#)[Forum](#)[Videos](#)

#### Climate Preparedness Makes Good Business Sense

The earth's climate is always in flux, but today's rate of change is far beyond what previous generations of farmers have had to face. Climate change is already posing new challenges, such as increased risk of flooding, summer heat stress, and more intense pest and weed pressures. Some farmers are beginning to plan to minimize the risks and capitalize on opportunities. In the Northeastern United States, there will be plenty of both. Making business decisions based on future scenarios is always a complex endeavor, and is muddled even more by

## CSF Decision Tools

The CSF Tools provide science-based, location-specific, and practical information to help farmers and other agricultural professionals make the most informed decisions about their production systems based on historical climate conditions, current weather forecasts, and future outlooks. The tools use 2.5-mile resolution gridded data, allowing for accurate estimates of on-farm conditions for any location in the Northeast. Tools from partner organizations such as the NRCC and NEWA are also available below the current CSF-developed tools. Please send any feedback or questions about these tools or the CSF Website to [cicss@cornell.edu](mailto:cicss@cornell.edu).

### Climate Smart Farming Tools

[Climate](#)[Tools](#)[Team](#)[Resources](#)[Forum](#)[Videos](#)

#### CSF Apple Stage / Freeze Damage Probability



Charts model development stage plus T10, T50 & T90 Apple hardness temperatures vs. daily minimum observed/forecast tempera-

#### CSF Growing Degree Day Calculator



Plots Growing Degree Days (GDD) to help predict plant development and pest/disease outbreaks, and provides a climatological context.

#### CSF Grape Hardiness & Freeze Risk



Charts hardness temperature vs. daily observed/forecast temperatures for several varieties of grapes.

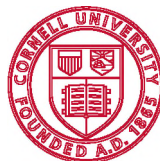
#### CSF Water Deficit Calculator



Monitors current and forecasted soil water deficit at your location to allow efficient water management and smart scheduling of irri-

[1](#) [2](#) [→](#)

Cornell Climate Smart Farming delivers trusted, research-based information and decision-making tools to agricultural stakeholders in the Northeast. Cornell CSF is a program of the Cornell Institute for Climate Smart Solutions.



**Cornell University**  
**College of Agriculture**  
**and Life Sciences**

For more information visit us at <http://climatesmartfarming.org>, or contact us at [cicss@cornell.edu](mailto:cicss@cornell.edu)