

Frost tolerances - Fall 2017 #3  
September 18, 2017

On September 18, photos of eight varieties were taken at State Bog. In addition, photos of Ben Lear, Stevens, Howes, and Early Black were taken at Rosebrook Bog. Fall frost tolerance is estimated based on the color of the fruit. That color development is a reflection of the internal biochemical changes in the fruit that lead to a tolerance of increasingly lower temperatures during the fall. Tolerance should be estimated by looking down into the canopy - do not remove fruit for examination. The photos below represent what you would see looking down at the fruit. Photos were taken using the camera on an iPhone.

All cultivars had developed substantial red color, with the least color on Howes and Grygleski #1. The tolerance for those cultivars was estimated to be 25°F.

Note that Ben Lear and Rutgers Cultivars shown here do not develop tolerance below 24°F.

ALWAYS CHECK THE TOLERANCE ON YOUR BOGS.



Early Black, 23°F, Rosebrook Bog, 9/18.  
Deep red stage.



Early Black, 23°F, State Bog, 9/18. Deep  
red stage.



Howes, 25°F, Rosebrook Bog 9/18. Red stage.



Howes, 25°F, State Bog 9/18. Red stage.



Ben Lear, 24°F, Rosebrook Bog, 9/18. Deep red stage.



Ben Lear, 24°F, State Bog, 9/18. Deep red stage.



Stevens, 23°F, Rosebrook Bog, 9/18.  
Deep red stage.



Stevens, 25°F, State Bog, 9/18. Red stage.  
Note that color on Stevens at State Bog is less advanced.



Crimson Queen, 24°F, State Bog, 9/18.  
Deep red stage.



Mullica Queen, 24°F, State Bog, 9/18.  
Deep red stage.



Demoranville, 24°F, State Bog, 9/18.  
Deep red stage.



Grygleski #1 (GH), 25°F, State Bog 9/18.  
Red stage.