

Frost tolerances - Fall 2019 #2
September 11, 2019

On September 11, 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. There are two pictures of each cultivar shown below.

All cultivars had developed some red color. Early Black and Ben Lear, with the most color developed - an overall red over the entire berry surface - were estimated to have a tolerance of 25°F. Stevens and Howes berries had a deep blush over the entire surface, thus their tolerance was estimated to be 26°F. No photos were taken of the Rutgers hybrids at the Cranberry Station this week, but growers can compare the appearance of those varieties to photos of Ben Lear in the recently released 'Frost Tolerances of Cranberry Fruit' factsheet to assess tolerance on their bogs.

ALWAYS CHECK THE TOLERANCE ON YOUR BOGS.



Early Black, 25°F, Rosebrook Bog, 9/11.
Red stage.



Early Black, 25°F, Rosebrook Bog, 9/11.
Red stage.



Howes, 26°F, Rosebrook Bog 9/11. Deep bluish stage.



Howes, 26°F, Rosebrook Bog 9/11. Deep bluish stage.



Ben Lear, 25°F, Rosebrook Bog, 9/11. Red stage.



Ben Lear, 25°F, Rosebrook Bog, 9/11. Red stage.



Stevens, 26°F, Rosebrook Bog 9/11. Deep bluish stage.



Stevens, 26°F, Rosebrook Bog 9/11. Deep bluish stage.