Frost tolerances - Fall 2019 #3
September 18, 2019

On September 18, photos of Ben Lear, Stevens, Howes, and Early Black were taken at Rosebrook Bog. Photos of those 4 varieities plus Crimson Queen, Mullica Queen, and Demoranville were taken at State 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.

Stevens (25°F) and Ben Lear (24°F) were similar at both locations. However, Early Black and Howes color was more advanced at Rosebrook compared to State Bog (see photos and captions). Of the three Rutgers hybrids at State Bog, Mullica Queen was less advanced (25°F) than Demoranville and Crimson Queen (24°F).

ALWAYS CHECK THE TOLERANCE ON <u>YOUR</u> BOGS.

Early Black, 24°F, Rosebrook Bog, 9/18. Dark red stage.

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

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

Howes, 26°F, State Bog 9/18. Deep blush stage.

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

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

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

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

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

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

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