Frost tolerances - Fall 2015 #1
September 22, 2015

On September 21, photos of 8 cranberry varieties were taken at State Bog. The next morning, September 22, 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 macro setting on the camera.

All cultivars had developed some red color, therefore, tolerance was less than 29.5°F. At State Bog, the photos were taken on our 'checker board' section where the smaller sections may be producing 'edge' effects in terms of light exposure and temperature. Therefore, CCCGA will use the Rosebrook tolerances on their message as those are more representative of bogs in the Wareham area.

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

Early Black, 25°F, State Bog, 9/21. Red stage.

Early Black, 25°F, Rosebrook Bog, 9/22. Red stage

Howes, 27°F, State Bog 9/21. Deep blush on exposed surface.

Howes, 26°F, Rosebrook Bog, 9/22. Deep blush.

Ben Lear, 25°F, State Bog, 9/21. Red stage.

Ben Lear, 24°F, Rosebrook Bog, 9/22. Deep red stage.

Stevens, 26°F, State Bog, 9/21. Deep blush.

Stevens, 25°F, Rosebrook Bog, 9/22. Red.

Mullica Queen, 25°F, State Bog, 9/21. Red.

Crimson Queen, 24°F, State Bog, 9/21. Dark red.

Grygleski #1, 26°F, State Bog, 9/21. Deep blush.

Demoranville, 24°F, State Bog, 9/21. Dark red.