

April 5, 2017

- ALWAYS check the tolerance at your bog [tolerance photos for all stages are shown at the end of this file]
- All cultivars at Rosebrook appeared to still be dormant
- Buds were tight and red or tinged with red
- Spring dormant tolerances are 18°F or lower for Early Black and Howes; 20°F or lower for Stevens, Ben Lear and new hybrids
- Buds observed at State Bog on the 7<sup>th</sup> were similar to those observed at Rosebrook on the 5<sup>th</sup>
- Next check scheduled for April 12<sup>th</sup>

# Frost check at Rosebrook on April 5, 2017



**Ben Lear**



**Stevens**



**Early Black**

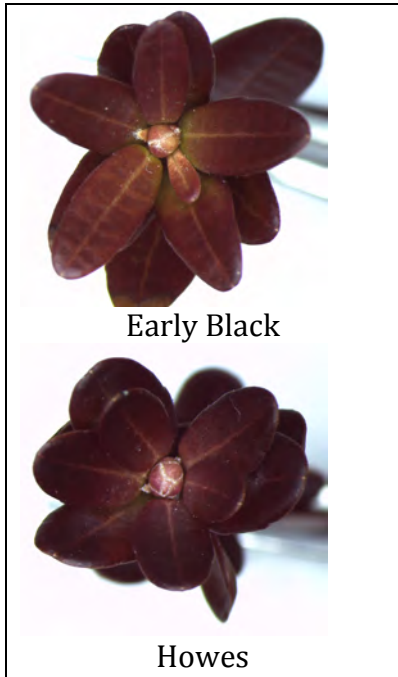


**Howes**

## Frost tolerance check protocol 2017

- Tolerance check team:  
Glenn Reid, Carolyn DeMoranville [CCCGA frost committee]  
Anne Cote, Patti Silvia [CCCGA frost program]  
Erika Saalau Rojas, Peter Jeranyama [UMass Cranberry Station]  
Other growers attend from time to time
- Visit Rosebrook Bog in Wareham:  
Observe buds of Early Black, Howes, Ben Lear, Stevens  
Take in-field photographs, collect buds to bring to the lab  
Agree on current frost tolerance
- In the lab at the Station:  
Take close up photos of buds  
Cut buds and photograph  
Post photos and tolerance report to the UMass Cranberry Station web site

Spring Frost Tolerances - Early Black and Howes



Spring Dormant 18°F



White Bud Stage 20°F



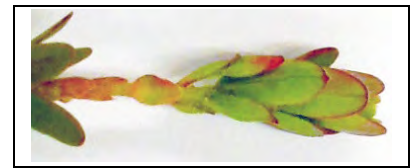
Bud Swell Stage 22°F



Cabbage Head Stage 25°F



Bud Elongation 27°F



Roughneck Stage 29.5°F



Hook Stage (L), Bloom (R)  
29.5°F

Spring Frost Tolerances - Ben Lear and Stevens

Tolerances for large-budded hybrids are assumed to be similar to these. Crimson Queen, Mullica Queen, and Demoranville have been observed to develop in a similar timeline as Ben Lear.

