

April 12, 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 are at the spring dormant stage
- Buds were tight and red or tinged with red
- Spring dormant tolerances are 18°F for Early Black and Howes; 20°F for Stevens, Ben Lear and new hybrids
- Buds observed at State Bog on the 12th were similar to those observed at Rosebrook
- Next check scheduled for April 18th

Frost check at Rosebrook on April 12, 2017



Ben Lear



Stevens



Early Black



Howes



Ben Lear



Crimson Queen

Buds at State Bog
April 12, 2017
Tolerance 20°F

Crimson and Mullica
appear similar to
Ben Lear

Demoranville looks
slightly less red but
in 2016 tests, had
similar tolerance
to Ben Lear



Demoranville

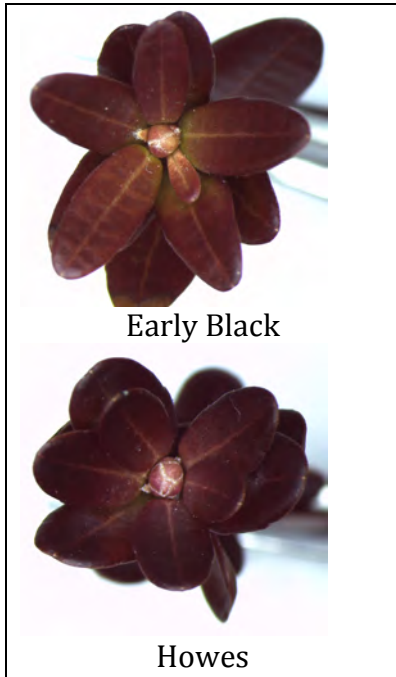


Mullica Queen

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



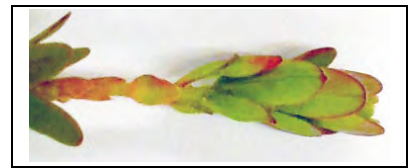
Bud Swell Stage 22°F



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.

