

April 27, 2021

ALWAYS check the tolerance at your bog. A fact sheet showing all spring tolerances is available in the Frost Tolerance Reports section of the Cranberry Station website (under 2020). Access via the Frost Tolerance Report in Quick Links on the Home Page.

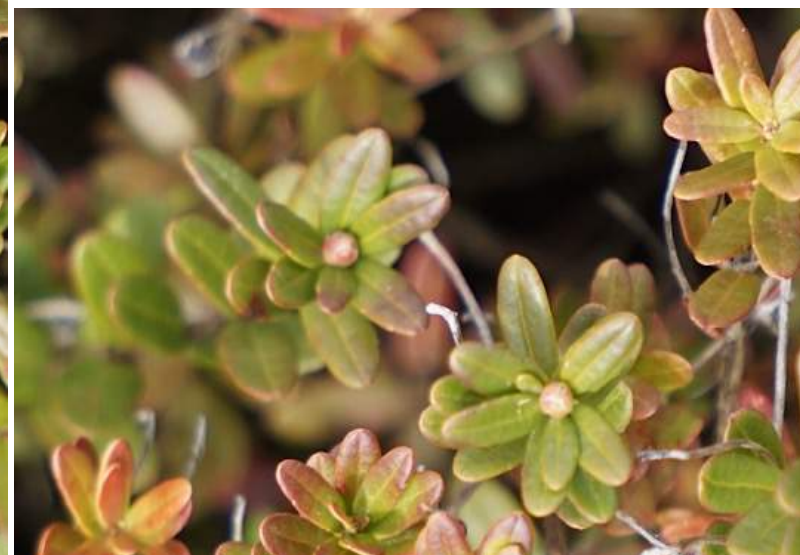
Hard copies are available at CCCGA and at the Station.

Tolerances provided here are determined at Rosebrook bog in Wareham and confirmed at State Bog in East Wareham.

For comparison purposes, this year we are including photos from additional locations.

- On April 27, at Rosebrook and at State Bog (April 26th), **bud swell bud stage** was seen on all varieties.
- Bud swell stage bud tolerance for Early Black and Howes is 22°F.
Bud swell stage tolerance is 25°F for Ben Lear, Stevens, and newer hybrids.
- The Dee degree day (GDD) model predicted white bud (loss of dormancy) stage on April 20 (100 GDD). The WI models predicted loss of spring dormancy on April 21 (90 GDD, simple model) and April 20 (90 GDD, complex model). All models were late to predict this stage compared to field observations.
- The Dee model predicts bud swell at 150 GDD. Through April 26th, East Wareham was at 133 GDD and should reach 150 GDD on April 29th based on weather forecasts. However, bud swell was observed in the field on April 26-27th.
- Bud closeups at State Bog, by Peter Jeranyama, UMass Cranberry Station; Rochester, Plympton, and Rosebrook photos by Erika Saalau Rojas, Ocean Spray.
- Next check is scheduled for April 30th.

Stevens, Rosebrook 4.27.21
Bud swell stage, tolerance 25°F



Ben Lear, Rosebrook 4.27.21
Bud swell stage, tolerance 25°F



Early Black, Rosebrook 4.27.21
Bud swell stage, tolerance 22°F



Howes, Rosebrook 4.27.21
Bud swell stage, tolerance 22°F



Bud photos, State Bog April 26, 2021

Stevens
25°F



Ben Lear
25°F



Note separating of bud scales

Bud photos, State Bog April 26, 2021

Early Black
22° F



Howes
22°F



Note separating of bud scales

Bud photos, State Bog April 26, 2021

Crimson Queen
25°F



Mullica Queen
25°F



Demoranville
25°F



Note separating of bud scales

BL, Plympton



ST, Plympton



ST, Rochester



ST #2, Rochester



DM, Rochester

