

May 4, 2018

- ALWAYS check the tolerance at your bog [tolerance photos for all stages are shown at the end of this file].
- At Rosebrook Bog, some Ben Lear are at **early** Elongation Stage, many remained at Cabbage Head Stage (Bud Break). Stevens, Early Black, and Howes are at the Bud Break (Cabbage Head) Stage. State Bog was not scouted today but has been keeping pace with observations at Rosebrook.
- At Bud Break/Cabbage Head, the bud is visibly rounder and larger and is approaching 2 mm in diameter; it resembles a cabbage and when observed from above, the bud covers the base of the adjacent leaves. At Elongation Stage, the bud begins to grow upward. Early in this stage, when the bud is observed from above, the cabbage-like appearance remains. However, a side view shows the outward/upward expansion.
- Bud Break (Cabbage Head) Stage tolerances are 25°F for Early Black and Howes; and 27°F for Stevens. Bud Elongation tolerance for Ben Lear and new hybrids is 29.5°F. NOTE: once Cabbage Head Stage is reached, bud tolerance advances every 5-7 days even if appearance does not change.
- On-bog photos by Erika Saalau Rojas; close-ups by Carolyn DeMoranville.
- Next check is scheduled for May 10th.

**Ben Lear 29.5°F
Early Elongation
Stage**

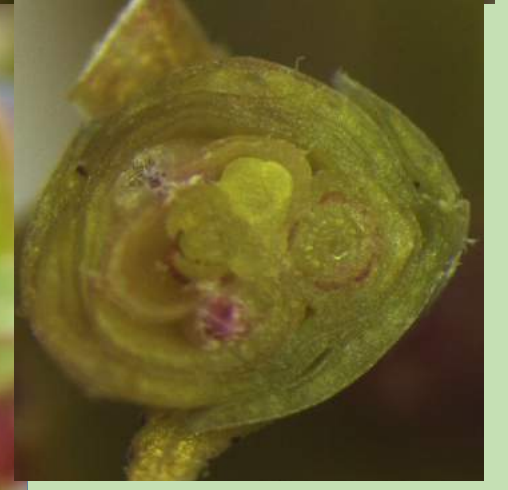


**Stevens 27°F
Cabbage Head Stage**

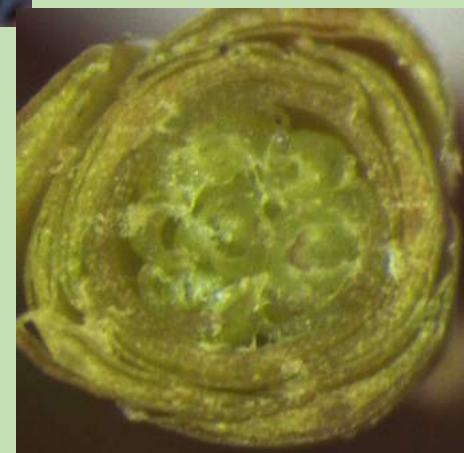


Bud not yet
growing
outwards

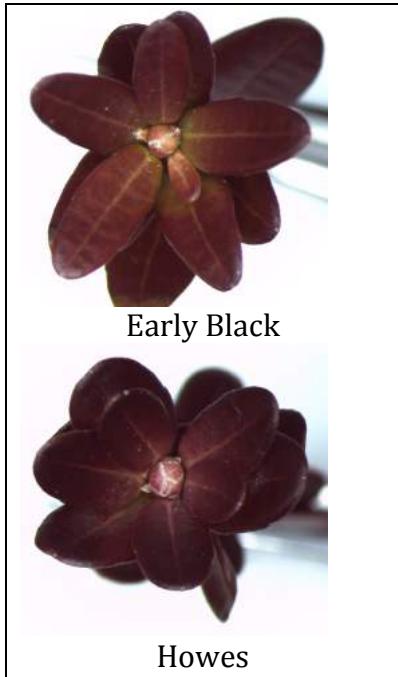
**Early Black 25°F
Cabbage Head Stage**



**Howes 25°F
Cabbage Head Stage**



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



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.

