

Frost tolerances - Spring 2013, Edition #5
April 29, 2013

On April 29 at Rosebrook Bog, buds were examined from the following cultivars: Early Black (EB), Howes (H), Ben Lear (BL), and Stevens (ST).

EB, BL, and ST were at the bud elongation stage, H had reached cabbage head stage.

At the cabbage head stage, tolerance for H is 25°F.

At the bud elongation stage, tolerance for EB is 27°F.

At the bud elongation stage, tolerance for BL and ST (and other hybrids) is 29.5°F.

Based on appearance, new hybrids should be assumed to have the same tolerance as BL for any given stage. Tolerance for the CCCGA frost warning is based on Rosebrook observations.

ALWAYS CHECK THE TOLERANCE ON YOUR BOGS.

We next plan to check tolerance and update photos if necessary on May 3.



EB bud elongation, 27°F, Rosebrook 4/29



EB shown on left, side view of bud.



H cabbage head, 25°F, Rosebrook 4/29



H cabbage head, another view



BL elongation 29.5°F, Rosebrook 4/29



BL side view showing elongation



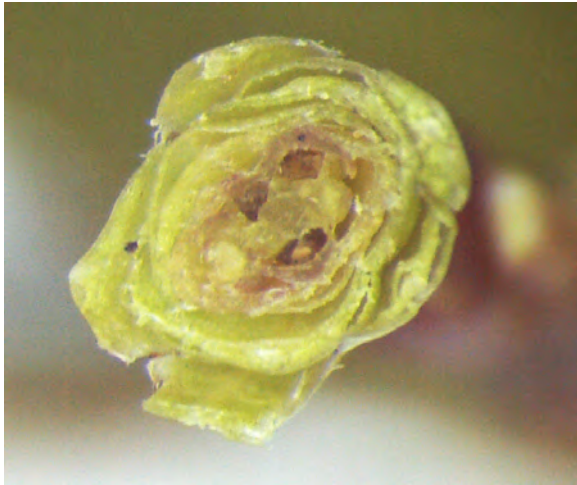
ST elongation 29.5°F, Rosebrook 4/29



ST side view showing elongation

Photos of a damaged buds (below).

EB collected on 4/24 (top) - note green center but brown areas surrounding the center. The brown areas would have become the flowers - these buds would produce leafy growth but no crop.



Compare to this healthy bud photographed in 2012.

H collected on 4/29 (bottom) - note entire center and surrounding flower initials are brown. This bud will not grow at all - no leaves or flowers. To the naked eye, the entire center could be seen to be dark.

