Frost tolerances - Spring 2014 #8
May 20, 2014

On May 20, buds were examined from the following cultivars: Howes (H), and Early Black (EB) from Rosebrook Bogs and those two cultivars plus Ben Lear (BL), Stevens (ST), Grygleski #1 (GH), Crimson Queen (CQ), Mullica Queen (MQ) and Demoranville (DE) from State Bog. EB and H at Rosebrook were predominantly at the elongation stage with a very few remaining at cabbage head stage. H and GH at State Bog were mostly at bud elongation stage, all others were at roughneck.

At the bud elongation stage, the bud has begun to grow upward (or outward). Look at the bud from the side and you can see the elongation. At roughneck, the bud has grown upward (outward) by 1/4 inch or more and flower buds may be visible but tightly pressed in towards the stem.

At the bud elongation stage, tolerance for EB and H is 27°F; tolerance for BL and ST is 29.5°F. At roughneck tolerance for all cultivars is 29.5°F. Based on appearance, new hybrids should be assumed to have the same tolerance as BL.

ALWAYS CHECK THE TOLERANCE ON YOUR BOGS.

EB, bud elongation, 27°F, Rosebrook, 5/20. Note that bud is expanding upward.


BL, roughneck, 29.5°F, State Bog, 5/20

ST, roughneck, 29.5°F, State Bog, 5/20.


MQ, roughneck, 29.5°F, State Bog, 5/20.

CQ, roughneck, 29.5°F, State Bog, 5/20.

EB, roughneck, State Bog 5/20. Note flower buds at 5 and 11 o’clock positions.


DE, cut bud, State Bog, 5/20. Note pink floral buds around the edges.

GH, cut bud, elongation stage 5/20.

CQ, roughneck, State Bog, 5/20.