On May 11, buds were examined from the following cultivars: Early Black (EB), Howes (H), Ben Lear (BL), Stevens (ST), Gregleski #1 (GH), Demoranville (DE), Mullica Queen (MQ), and Crimson Queen (CQ). These buds were collected at State Bog in East Wareham. All cultivars and locations had at least some uprights with buds that had advanced to the elongation stage with the remainder at cabbage head stage.

The transition from cabbage head to elongation involves the upward or outward growth of the bud - in side view the bud is no longer round in appearance (as it is in the cabbage head stage).

At the cabbage head stage, tolerance for EB and H is 25°F; tolerance for BL and ST is 27°F. At the elongation stage, tolerance for EB and H is 27°F; tolerance for BL and ST 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.
H elongation stage, 27°F, State Bog 5/11

H elongation stage cut bud - cut is half way from tip. State Bog 5/11

BL elongation stage, 29.5°F, State Bog 5/11

BL elongation stage cut bud - cut is about 2/3 down from tip. State Bog 5/11

ST elongation stage, 29.5°F, State Bog 5/11

ST elongation stage cut bud - cut is half way from tip. State Bog 5/11
CQ elongation stage, 29.5°F, State Bog 5/11

DE elongation stage, 29.5°F, State Bog 5/11

MQ early elongation stage, 29.5°F, State Bog 5/11

MQ late elongation stage, 29.5°F, State Bog 5/11

GH elongation stage, 29.5°F, State Bog 5/11

GH elongation stage cut bud - cut is 1/3 down from from tip. State Bog 5/11