On May 27, uprights were collected from State Bog. All cultivars had reached the roughneck stage. 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 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.

Early Black, roughneck, 29.5°F, State Bog, 5/27. Only new growth shown. Note flower bud beginning to stick out - this upright is approaching jewel stage.

Early Black, roughneck, State Bog 5/20. Note how a week ago the flower buds were shorter and pressed to the stem.
Howes, early roughneck, 29.5°F, State Bog, 5/27.

BL, roughneck, 29.5°F, State Bog, 5/27. Flower bud is more visible compared to a week ago.

Stevens, roughneck, 29.5°F, State Bog, 5/27. Little change from last week.

Demoranville, roughneck, 29.5°F, State Bog, 5/27. Arrow points to flower bud. Little change from last week.
Crimson Queen, roughneck, 29.5°F, State Bog, 5/27. Similar to last week and to Demoranville.

Mullica Queen, roughneck, 29.5°F, State Bog, 5/27.