On April 22, 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 and Rosebrook Bog in Wareham. All cultivars with the exception of Early Black had buds that remain at spring dormant stage. The leaves are greener than they were on April 14, but the buds remain red and tight. Early Black has advanced to the white bud stage and Demoranville was nearing that stage. Cut buds of EB and DE showed the most interior greening. H, ST, BL and CQ were noticeably less red inside compared to those cut on April 14 but were not yet fully green. MQ and GH were similar in appearance to BL.

At the spring dormant stage tolerance for H is 18°F; tolerance for BL and ST is 20°F. Based on appearance, new hybrids should be assumed to have the same tolerance as BL. At the white bud stage tolerance for EB is 20°F.

ALWAYS CHECK THE TOLERANCE ON YOUR BOGS.

If you suspect you have had conditions on your bog that would caused frost injury, you can examine buds to look for damage - but wait for at least 24 hours after the frost event. The pictures of cut buds below show what an undamaged bud looks like when you cut a cross-section. Damage would appear as brown or black areas. As we go through the season and find damaged buds, damage photos will be included.
H spring dormant, 18°F, State Bog 4/22

BL spring dormant, 20°F, State Bog 4/22

ST spring dormant, 20°F, State Bog 4/22

H spring dormant, 18°F, Rosebrook 4/22

BL spring dormant, 20°F, Rosebrook 4/22

ST spring dormant, 20°F, Rosebrook 4/22
GH spring dormant, 20°F, State Bog 4/22

DE spring dormant, 20°F, State Bog 4/22. This bud is approaching the white bud stage.

MQ spring dormant, 20°F, State Bog 4/22

CQ spring dormant, 20°F, State Bog 4/22
Cut EB bud. 4.22 State Bog. Note internal greening.

Cut H bud. 4.22 State Bog. Internal structures have less red dormant color compared to 4.14 samples but are not yet green.

ST cut bud. 4.22 State Bog. Interior is less red than on 4.14.

DE cut bud. 4.22 State Bog. Note advanced greening.

BL cut bud. 4.22 Rosebrook.

CQ cut bud 4.22 State Bog.