



2009/10 Cold Hardiness Testing of Grape Buds in Niagara

St. Cath., Vineland, Beamsville, Grimsby



| Cultivar | Date | Location | BUD LT 10% °C | BUD LT 50% °C | BUD LT 90% °C |
|-----------------------|-----------|--------------------------|---------------|---------------|---------------|
| Cabernet Franc | 2-Mar-10 | Vinemount – Campden | -21.4 | -22.1 | -23.9 |
| | 2-Mar-10 | Vinemount - Quarry | -22.0 | -22.9 | -23.9 |
| | 17-Feb-10 | Vinemount | -21.5 | -23.7 | -25.1 |
| | 4-Mar-10 | Central - Winona | -21.0 | -22.4 | -24.7 |
| | 16-Feb-10 | Central - Vineland | -20.8 | -22.8 | -25.1 |
| | 4-Mar-10 | Central - St. Catharines | -20.9 | -22.4 | -23.6 |
| | 2-Mar-10 | Lakeshore - Vineland 1 | -21.8 | -23.0 | -24.6 |
| | 2-Mar-10 | Lakeshore - Vineland 2 | -20.8 | -22.5 | -23.5 |
| | 3-Mar-10 | Bench - Beamsville | -20.6 | -21.7 | -24.2 |
| | 3-Mar-10 | Bench - St. Catharines | -20.0 | -21.7 | -24.1 |
| Chardonnay | 2-Mar-10 | Vinemount - Campden | -22.2 | -23.3 | -25.1 |
| | 2-Mar-10 | Vinemount - Quarry | -20.4 | -22.9 | -24.8 |
| | 4-Mar-10 | Central - Winona | -20.4 | -22.5 | -24.8 |
| | 16-Feb-10 | Central - Vineland | -21.8 | -23.4 | -24.3 |
| | 4-Mar-10 | Central - St. Catharines | -21.1 | -22.8 | -23.9 |
| | 2-Mar-10 | Lakeshore - Vineland 1 | -20.3 | -22.0 | -24.2 |
| | 2-Mar-10 | Lakeshore - Vineland 2 | -21.0 | -22.3 | -23.9 |
| | 16-Feb-10 | Lakeshore - Beamsville | -21.1 | -23.5 | -25.4 |
| | 3-Mar-10 | Bench - Beamsville | -20.0 | -21.6 | -23.3 |
| | 3-Mar-10 | Bench - St. Catharines | -21.4 | -22.7 | -24.4 |

BUD LT10 is the temperature (degrees Celsius) at which 10% of the primary buds will be killed. BUD LT 50 and BUD LT 90 refer to 50% and 90% bud damage respectively. Vine hardiness ratings are site specific and may vary depending on your specific environmental conditions, overall vine health and viticultural practices. KCMS is not responsible for any damage from the use or misuse of this information.