



## 2008/2009 Cold Hardiness Testing of Grape Buds in Niagara

Cultivar	Date	Location	BUD LT 10% °C	BUD LT 50% °C	BUD LT 90% °C
Cabernet Franc	16-Dec-08	GRS – Vineland (West Central)	-20.4	-22.1	-23.9
	18-Dec-08	West Lakeshore	-18.6	-19.9	-22.5
Cabernet Sauvignon	16-Dec-08	GRS – Vineland (West Central)	-16.8	-20.0	-22.6
	18-Dec-08	West Lakeshore	-18.6	-19.9	-22.5
	17-Dec-08	NOTL – Virgil (East Central)	-21.1	-23.3	-24.9
Chardonnay	15-Dec-08	GRS – Vineland (West Central)	-21.0	-22.7	-23.9
	18-Dec-08	West Lakeshore	-21.4	-23.3	-24.5
	17-Dec-08	NOTL – Virgil (East Central)	-21.1	-23.3	-24.9
Gamay	15-Dec-08	GRS – Vineland (West Central)	-18.5	-21.5	-23.4
	17-Dec-08	NOTL – Virgil (East Central)	-18.9	-22.4	-24.0
Gewurztraminer	15-Dec-08	GRS – Vineland (West Central)	-16.1	-21.0	-22.1
Merlot	16-Dec-08	GRS – Vineland (West Central)	-17.4	-21.0	-23.1
	18-Dec-08	West Lakeshore	-16.3	-19.9	-22.1
	17-Dec-08	NOTL – Virgil (East Central)	-20.1	-22.0	-24.3
Pinot Blanc	15-Dec-08	GRS – Vineland (West Central)	-15.6	-20.5	-21.6
Pinot Gris	15-Dec-08	GRS – Vineland (West Central)	-20.6	-22.4	-23.5
	17-Dec-08	NOTL – Virgil (East Central)	-20.3	-21.6	-23.2
Pinot Noir	15-Dec-08	GRS – Vineland (West Central)	-20.1	-22.3	-23.3
	18-Dec-08	W. Lakeshore	-21.6	-23.3	-25.2
Riesling	16-Dec-08	GRS – Vineland (West Central)	-20.7	-22.4	-23.7
	17-Dec-08	NOTL – Virgil (East Central)	-20.3	-23.2	-24.1
Sauvignon Blanc	16-Dec-08	GRS – Vineland (West Central)	-17.7	-20.8	-22.5
	17-Dec-08	NOTL – Virgil (East Central)	-15.2	-21.4	-23.9
Syrah	18-Dec-08	W. Lakeshore	-17.6	-20.1	-23.6

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.