



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



UNIVERSITY OF GUELPH



Cultivar	Date	Location	BUD LT 10% °C	BUD LT 50% °C	BUD LT 90% °C
Cabernet Franc	6-Jan-09	GRS – Vineland (West Central)	-20.0	-21.8	-24.0
Cabernet Sauvignon	6-Jan-09	GRS – Vineland (West Central)	-19.0	-22.2	-23.8
	8-Jan-09	West Lakeshore	-17.7	-20.4	-22.1
Chardonnay	5-Jan-09	GRS – Vineland (West Central)	-19.6	-22.5	-24.6
	8-Jan-09	West Lakeshore	-22.2	-24.1	-25.6
	7-Jan-09	NOTL – Virgil (East Central)	-20.1	-23.4	-25.7
Gamay	5-Jan-09	GRS – Vineland (West Central)	-13.2	-22.4	-23.8
	7-Jan-09	NOTL – Virgil (East Central)	-20.6	-22.8	-24.6
Gewurztraminer	5-Jan-09	GRS – Vineland (West Central)	-17.3	-21.1	-23.6
Merlot	6-Jan-09	GRS – Vineland (West Central)	-19.1	-22.5	-23.7
	8-Jan-09	West Lakeshore	-18.1	-20.0	-21.8
	7-Jan-09	NOTL – Virgil (East Central)	-15.5	-22.4	-23.5
Pinot Blanc	5-Jan-09	GRS – Vineland (West Central)	-21.4	-24.1	-25.8
Pinot Gris	5-Jan-09	GRS – Vineland (West Central)	-18.0	-22.2	-24.8
	7-Jan-09	NOTL – Virgil (East Central)	-18.9	-22.2	-24.9
Pinot Noir	5-Jan-09	GRS – Vineland (West Central)	-16.0	-22.9	-24.0
	8-Jan-09	W. Lakeshore	-23.7	-24.5	-25.6
Riesling	6-Jan-09	GRS – Vineland (West Central)	-23.2	-25.2	-26.6
	7-Jan-09	NOTL – Virgil (East Central)	-21.1	-23.5	-25.5
Sauvignon Blanc	6-Jan-09	GRS – Vineland (West Central)	-20.2	-22.4	-24.1
	7-Jan-09	NOTL – Virgil (East Central)	-17.9	-22.1	-26.3
Syrah	8-Jan-09	W. Lakeshore	-18.4	-20.2	-22.0

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.