



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



**Grape Buds in Niagara**



Cultivar	Date	Location	BUD LT 10% °C	BUD LT 50% °C	BUD LT 90% °C
Cabernet Franc	23-Mar-09	West Central (GRS – Vineland)	-17.8	-18.7	-20.1
	26-Mar-09	West Central (St. Catharines)	-15.5	-18.7	-20.3
	25-Mar-09	West Bench 1 (Beamsville)	-18.5	-19.3	-20.2
	25-Mar-09	West Bench 2 (Beamsville)	-17.7	-19.4	-21.4
Cabernet Sauvignon	23-Mar-09	West Central (GRS – Vineland)	-19.2	-21.1	-22.6
	25-Mar-09	West Bench 1 (Beamsville)	-16.0	-18.8	-20.5
	25-Mar-09	West Bench 2 (Beamsville)	-17.4	-19.9	-20.9
	26-Mar-09	West Lakeshore (St. Catharines)	-15.2	-19.7	-21.2
Chardonnay	23-Mar-09	West Central (GRS – Vineland)	-14.9	-17.9	-20.1
	26-Mar-09	West Central (St. Catharines)	-13.6	-18.8	-21.8
	25-Mar-09	West Bench 2 (Beamsville)	-19.6	-20.4	-21.9
	26-Mar-09	West Lakeshore (St. Catharines)	-18.7	-20.0	-21.4
	24-Mar-09	East Central (NOTL – Virgil)	-17.9	-20.1	-20.9
	24-Mar-09	East Lakeshore (NOTL)	-16.9	-20.6	-22.2
Gamay	23-Mar-09	West Central (GRS – Vineland)	-14.6	-19.9	-21.7
	24-Mar-09	East Central (NOTL – Virgil)	-16.0	-17.2	-20.9
Gewurztraminer	23-Mar-09	West Central (GRS – Vineland)	-15.4	-17.2	-19.6
	25-Mar-09	West Bench 1 (Beamsville)	-14.8	-17.6	-23.5
Merlot	23-Mar-09	West Central (GRS – Vineland)	-16.6	-18.5	-20.0
	26-Mar-09	West Central (St. Catharines)	-15.5	-18.6	-20.4
	25-Mar-09	West Bench 2 (Beamsville)	-15.6	-18.8	-19.8
	26-Mar-09	West Lakeshore (St. Catharines)	-12.8	-18.6	-20.0
	24-Mar-09	East Central (NOTL – Virgil)	-14.5	-20.1	-22.8
	24-Mar-09	East Lakeshore (NOTL)	-19.4	-21.2	-22.9
Pinot Blanc	23-Mar-09	West Central (GRS – Vineland)	-15.8	-19.2	-21.9

Pinot Gris	23-Mar-09	West Central (GRS – Vineland)	-16.2	-19.4	-21.3
	24-Mar-09	East Central (NOTL – Virgil)	-16.4	-21.3	-22.1
Pinot Noir	23-Mar-09	West Central (GRS – Vineland)	-19.3	-21.5	-22.4
	26-Mar-09	West Central (St. Catharines)	-18.6	-20.1	-21.6
	25-Mar-09	West Bench 2 (Beamsville)	-20.2	-21.0	-21.9
	26-Mar-09	W. Lakeshore (St. Catharines)	-16.4	-20.5	-21.6
Riesling	16-Mar-09	West Central (GRS – Vineland)	-16.5	-20.1	-21.6
	25-Mar-09	West Bench 1 (Beamsville)	-16.0	-19.8	-25.2
	24-Mar-09	East Central (NOTL – Virgil)	-18.1	-20.8	-21.9
	24-Mar-09	East Lakeshore (NOTL)	-17.7	-19.5	-21.0
Sauvignon Blanc	23-Mar-09	West Central (GRS – Vineland)	-16.2	-19.2	-20.8
	26-Mar-09	West Central (St. Catharines)	-14.3	-18.1	-20.0
	25-Mar-09	West Bench 1 (Beamsville)	-17.4	-18.8	-20.9
	24-Mar-09	East Central (NOTL – Virgil)	-17.6	-20.2	-21.1
	24-Mar-09	East Lakeshore (NOTL)	-15.7	-17.3	-19.2
Syrah	25-Mar-09	West Bench 1 (Beamsville)	-9.4	-12.9	-16.0
	26-Mar-09	W. Lakeshore (St. Catharines)	-15.5	-18.3	-21.2
	24-Mar-09	East Lakeshore (NOTL)	-17.9	-20.2	-21.4
Baco Noir	26-Mar-09	West Central (St. Catharines)	-18.0	-19.9	-22.4
Vidal	24-Mar-09	East Lakeshore (NOTL)	-19.4	-21.0	-22.6

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.