



2009/10 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	9-Dec-09	East Parkway 1 (Queenston)	-19.0	-21.1	-22.0
	9-Dec-09	East Parkway 2 (NOTL)	-18.6	-20.6	-21.6
	9-Dec-09	East Central 1 (Virgil)	-18.8	-21.0	-22.3
	9-Dec-09	East Central 2 (NOTL - McNab)	-17.7	-21.2	-22.4
	9-Dec-09	East Lakeshore 1 (NOTL)	-17.8	-20.8	-22.1
	9-Dec-09	East Lakeshore 2 (NOTL)	-18.3	-20.7	-22.1
	1-Dec-09	East Bench (St. David's)	-15.0	-19.5	-21.5
	6-Jan-10	West Vinemount 1 (Campden)	-22.0	-23.7	-25.6
	6-Jan-10	West Vinemount 2 (Campden)	-21.0	-23.1	-25.0
	5-Jan-10	West Central 1 (Winona)	-21.3	-23.6	-25.4
	5-Jan-10	West Central 2 (Vineland)	-22.2	-24.2	-25.5
	5-Jan-10	West Central 3 (St. Catharines)	-20.8	-23.4	-25.4
	6-Jan-10	West Lakeshore 1 (St. Catharines)	-19.0	-22.9	-25.4
	6-Jan-10	West Lakeshore 2	-18.2	-23.2	-25.0
	4-Jan-10	West Bench 1 (Beamsville)	-18.8	-22.5	-24.9
4-Jan-10	West Bench 2 (Vineland)	-17.8	-22.7	-25.5	

	4-Jan-10	West Bench 3 (Vineland)	-19.5	-22.8	-24.8
Cabernet Sauvignon	4-Jan-10	West Lakeshore (St. Catharines)	-18.7	-22.2	-25.2
Merlot	4-Jan-10	West Lakeshore (St. Catharines)	-19.8	-22.7	-25.9
Pinot Noir	4-Jan-10	West Lakeshore (St. Catharines)	-19.1	-23.5	-25.4
Syrah	4-Jan-10	West Lakeshore (St. Catharines)	-20.1	-22.2	-24.1
Chardonnay	9-Dec-09	East Parkway 1 (Queenston)	-18.8	-22.0	-23.3
	9-Dec-09	East Parkway 2 (NOTL)	-19.8	-22.0	-23.2
	9-Dec-09	East Central 1 (Virgil)	-17.2	-21.7	-22.6
	9-Dec-09	East Central 2 (NOTL - McNab)	-19.1	-21.8	-23.1
	9-Dec-09	East Lakeshore 1 (NOTL)	-18.7	-21.7	-23.3
	9-Dec-09	East Lakeshore 2 (NOTL)	-18.2	-21.7	-22.9
	1-Dec-09	East Bench (St. David's)	-16.3	-20.6	-22.3
	6-Jan-10	West Vinemount 1 (Campden)	-20.2	-22.7	-24.7
	6-Jan-10	West Vinemount 2 (Campden)	-20.1	-23.8	-25.9
	5-Jan-10	West Central 1 (Winona)	-20.9	-23.2	-25.1
	5-Jan-10	West Central 2 (Vineland)	-19.9	-23.4	-25.6
	5-Jan-10	West Central 3 (St. Catharines)	-20.2	-23.2	-25.3
	6-Jan-10	West Lakeshore 1 (St. Catharines)	-19.9	-23.6	-25.3
	6-Jan-10	West Lakeshore 2	-19.0	-22.0	-24.6
	6-Jan-10	West Lakeshore 3	-20.6	-23.2	-25.0

	6-Jan-10	West Lakeshore	-20.5	-23.6	-24.9
	4-Jan-10	West Bench 1 (Beamsville)	-19.4	-23.2	-24.6
	4-Jan-10	West Bench 2 (Vineland)	-20.6	-23.4	-24.9
	4-Jan-10	West Bench 3 (Vineland)	-19.9	-23.6	-26.4

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.