

Winter Injury Studies 2008/09

Grape Bud Survival

January 26, 2009

Research Team

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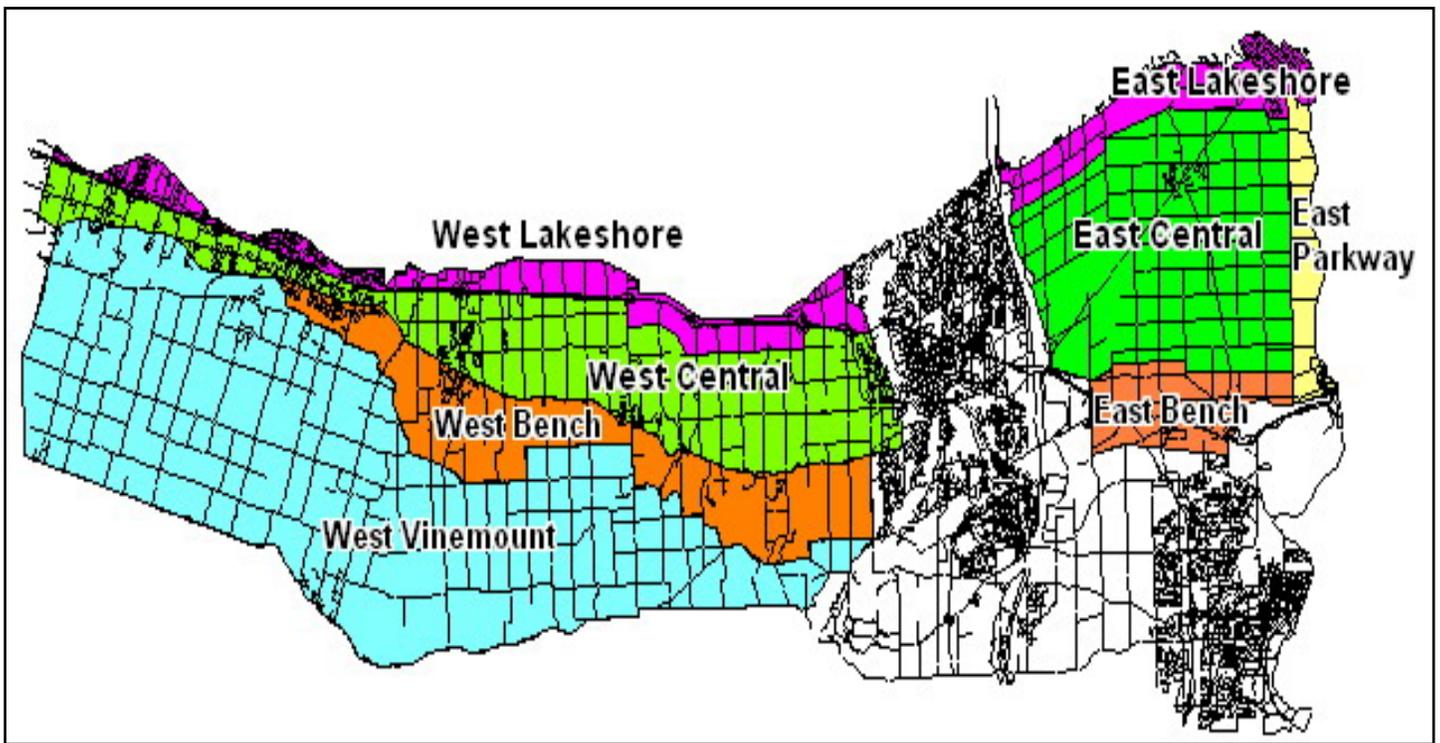
Ryan Brewster, KCMS Applied Research and Consulting Inc.

Grape bud sampling to establish winter survival is part of the - CanAdvance and CRESTech funded Winter Injury and Wind Machine project. The tables in this article, report the sampling results based on the bud collection during the week of January 26th, 2009. However, the percent alive may vary up or down from the last sample due to the variation in the samples taken. The tables below are based on multiple samples and multiple sites within in area for each cultivar.

The Grape Growers of Ontario (GGO) and the Wine Council of Ontario (WCO) are the major sponsors of the project. Other partners include; Stephane Bosc – Orchard Rite; Roger Vail – Chinook; KCMS Applied Research and Consulting; Agricorp; Ontario Tender Fruit Producers' Marketing Board; the Niagara Peninsula Fruit & Vegetable Growers' Association, OMAFRA; Brock University and the University of Guelph.

The Parkway zone runs approximately 1 km along the west side of the Niagara River from Niagara-on-the-Lake to Queenston; the Lakeshore zone is approximately 1 km south of the lake from the Niagara River to Grimsby; the Central zone continues south of the Lakeshore zone to the base of the escarpment; the Bench zone starts at the south side of the Central zone to the brink of the escarpment and the Vinemount zone runs south of the Bench Zone.





8 Sampling Zones Used

% Live Buds - Labrusca – January 26, 2009 (NS means no sample taken)

Cultivar	Location	East of Canal	West of Canal
Concord	Vinemount	NS	91
Niagara	Vinemount	NS	94

% Live Buds - Hybrids – January 26, 2009 (NS means no sample taken)

Cultivar	Location	East of Canal	West of Canal
Baco Noir	Central	75	87
	Parkway	80	NS
	Vinemount	NS	78
Foch	Central	NS	86-92
	Vinemount	NS	74
Vidal	Central	67-77	61-89
	Lakeshore	63	NS
	Parkway	70-74	NS
	Vinemount	NS	74-96

% Live Buds - Vinifera – January 26, 2009 (NS means no sample taken)

Cultivar	Location	East of Canal	West of Canal
Cabernet Franc	Bench	85-98	75-96
	Central	59-75	67-100
	Lakeshore	77-83	75
	Parkway	80-91	NS
	Vinemount	NS	94
Cabernet Sauvignon	Central	NS	85
	Lakeshore	NS	66
	Parkway	95	NS
Chardonnay	Bench	89-100	66-79
	Central	85-89	91-94
	Lakeshore	86-98	NS
	Parkway	82-83	NS
	Vinemount	NS	75
Gamay	Parkway	95	NS
Merlot	Bench	79-90	79-97
	Central	74	97-99
	Lakeshore	80	79-84
	Parkway	84-100	NS
	Vinemount	NS	87
Pinot Noir	Bench	85-87	77-92
	Central	75	90-95
	Lakeshore	75	67
	Parkway	83	NS
	Vinemount	NS	85-96
Riesling	Bench	81-100	60-95
	Central	67-78	79-95
	Lakeshore	68-81	68
	Parkway	72-84	NS
	Vinemount	NS	72-74
Sauvignon Blanc	Central	81	86
	Lakeshore	63	NS
Syrah	Lakeshore	NS	67
	Parkway	86	NS