



Winter Injury Studies 2007/08 Grape Bud Survival April 14, 2008

Research Team

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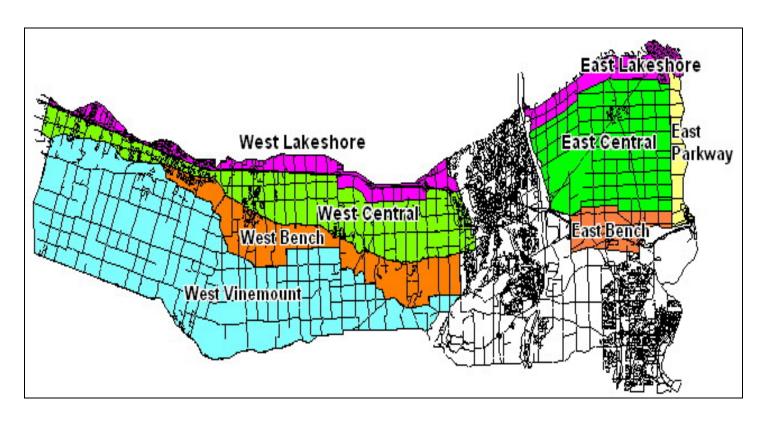
Grape bud sampling to establish winter survival is part of the 3 year - CanAdvance and CRESTech funded Winter Injury and Wind Machine project. The tables in this article, report the sampling results based on the bud collection during the week of April 14th, 2008. However, the percent alive may vary up 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 – April 14, 2008 (NS means no sample taken)

Cultivar	Location	East of Canal	West of Canal
Concord	Vinemount	NS	90
Niagara	Vinemount	NS	95

% Live Buds - Hybrids - April 14, 2008 (NS means no sample taken)

Cultivar	Location	East of Canal	West of Canal
Baco Noir	Central	90	95
	Parkway	99	NS
	Vinemount	NS	97
Foch	Central	NS	83-90
	Vinemount	NS	97
Vidal	Central	69-86	77-88
	Lakeshore	88	NS
	Parkway	89-92	NS
	Vinemount	NS	71-79

% Live Buds - Vinifera – April 14, 2008 (NS means no sample taken)

Cultivar	Location	East of Canal	West of Canal
Cabernet Franc	Bench	59	71-94
	Central	72-91	50-95
	Lakeshore	83	90
	Parkway	89-91	NS
	Vinemount	NS	68-90
Cabernet Sauvignon	Central	NS	100
	Lakeshore	NS	87
	Parkway	NS	NS
Chardonnay	Bench	70	78
	Central	84-95	88-97
	Lakeshore	95	NS
	Parkway	89-99	NS
	Vinemount	NS	100
Gamay	Parkway	NS	NS
Merlot	Bench	11-43	70-83
	Central	57	29-70
	Lakeshore	91	70-89
	Parkway	92	NS
	Vinemount	NS	27
Pinot Noir	Bench	84	82
	Central	88	91-100
	Lakeshore	NS	90-94
	Parkway	78	NS
	Vinemount	NS	70-96
Riesling	Bench	79	70-96
_	Central	93-95	75-98
	Lakeshore	74-97	89
	Parkway	83-95	NS
	Vinemount	NS	83-96
Sauvignon Blanc	Central	80	87
	Lakeshore	NS	NS
Syrah	Lakeshore	NS	92
	Parkway	NS	NS