

Winter Injury Studies 2009/10

Grape Bud Survival

December 7, 2009 (West)

December 14, 2009 (East)

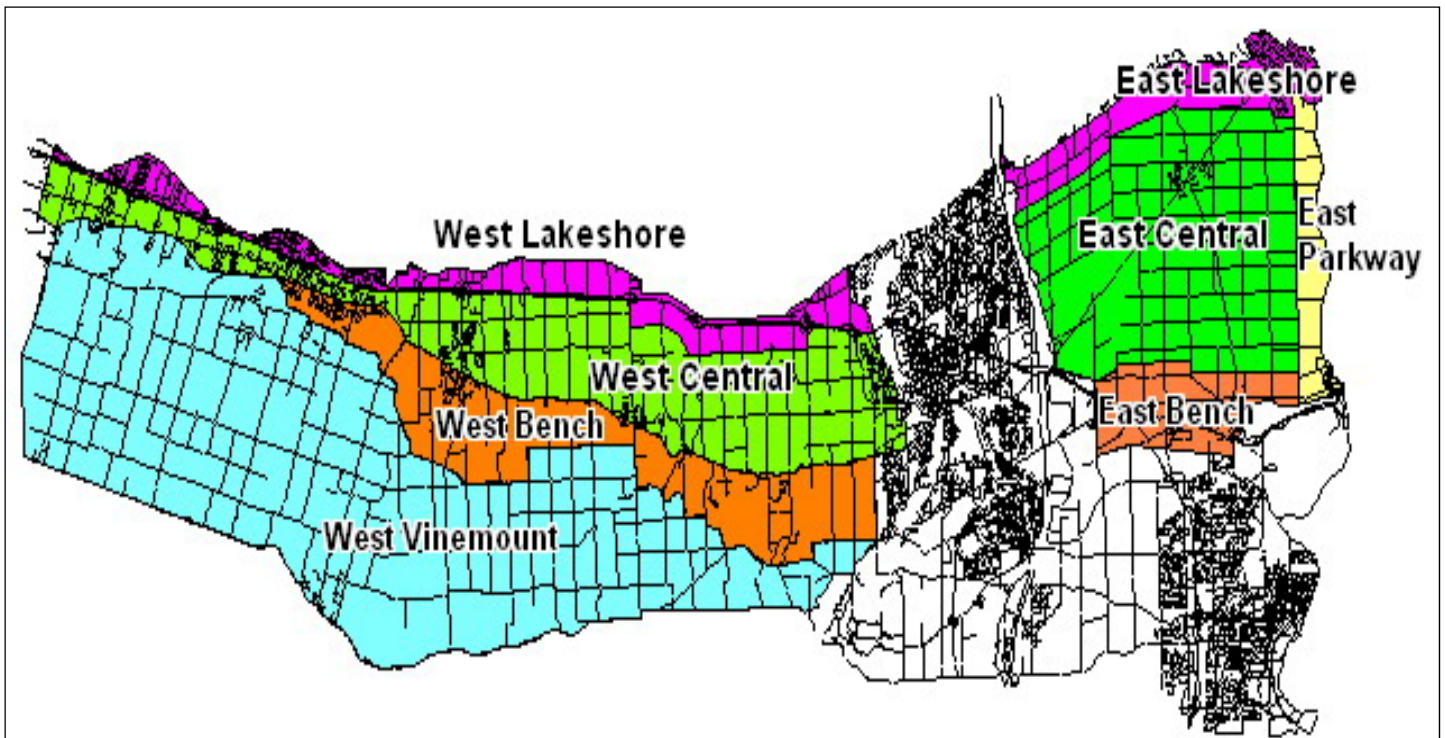


Brock University



Grape bud sampling to establish winter survival is part of a – Ontario Grape & Wine Research Incorporated funded Winter Injury project. The tables in this article, report the sampling results based on the bud collection in the west end regions during the week of December 7th, 2009 and in the east end regions during the week of December 14th, 2009 (**Data for the east end will be posted when complete). 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 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 - Vinifera – December 7 & 14, 2009 (NS means no sample taken)

Cultivar	Location	West of Canal (Week of Dec 7/09)	East of Canal (Week of Dec 14/09)
Cabernet Franc	Bench	95-98	95-98
	Central	92-97	94-95
	Lakeshore	96	91-92
	Parkway	NS	94-95
	Vinemount	95-99	NS
Cabernet Sauvignon	Bench	95-97	95-96
	Central	91-99	96
	Lakeshore	95-98	95-97
	Parkway	NS	96-97
	Vinemount	98	NS
Chardonnay	Bench	93-95	97-99
	Central	93-97	95-96
	Lakeshore	97-98	91-94
	Parkway	NS	93-97
	Vinemount	95-96	NS
Merlot	Bench	93-97	93-97
	Central	95-99	97
	Lakeshore	95-96	95-97
	Parkway	NS	93-97
	Vinemount	95-97	NS
Pinot Noir	Bench	97-99	97
	Central	93-97	97-98
	Lakeshore	96	96
	Parkway	NS	92-96
	Vinemount	99	NS
Riesling	Bench	87-97	95
	Central	96-98	90-98
	Lakeshore	94	92-94
	Parkway	NS	94-96
	Vinemount	92-95	NS
Sauvignon Blanc	Bench	89-95	91
	Central	93-94	94-96
	Lakeshore	96	92-93
	Parkway	NS	91-94
	Vinemount	97	NS
Syrah	Bench	94	92
	Central	94	NS
	Lakeshore	91	78
	Parkway	NS	86-89

% Live Buds - Hybrids – December 7 & 14, 2009 (NS means no sample taken)

Cultivar	Location	West of Canal (Week of Dec 7/09)	East of Canal (Week of Dec 14/09)
Baco Noir / Foch	Bench	96-98	NS
	Central	96-97	93-94
	Parkway	NS	95
	Vinemount	97-99	NS
Vidal	Central	96-99	99-100
	Lakeshore	94	96-98
	Parkway	NS	96
	Vinemount	96-99	NS