

Summerland RDC Wine Grape Research



Canada



Extreme Weather Event Dec 19 to Dec 23, 2022

Grape Hardiness

Manual Grape Bud Dissection Results

And

Partially Damaged Buds – Shifted LTE Values

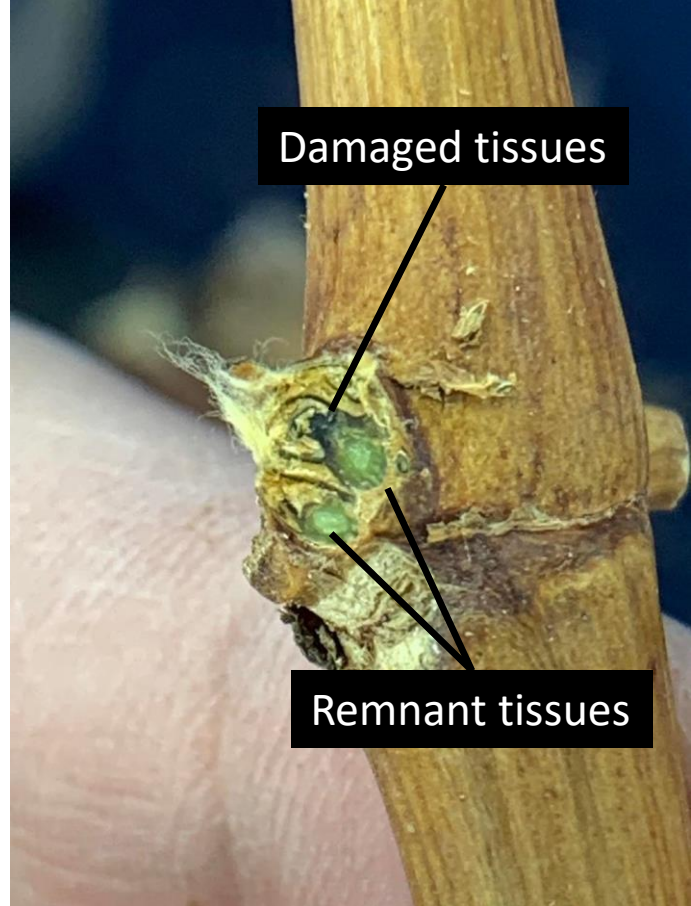
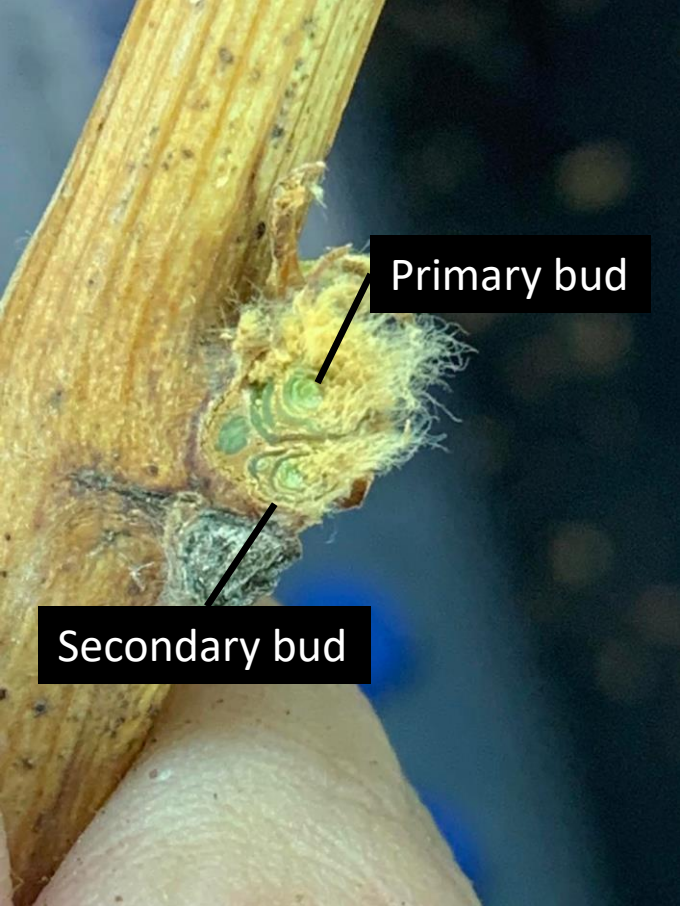
Prepared by

Ben-Min Chang

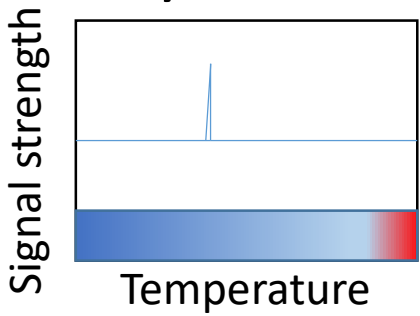
January 12, 2023

Variety	Location	Primary bud survival rate (%)	Secondary bud survival rate (%)
Cabernet Sauv	Osoyoos northeast	0	29
Cabernet Sauv	Black Sage	0	0
Cabernet Sauv	Osoyoos southeast	24	47
Chardonnay	OK Falls east	67	73
Chardonnay	Naramata Bench	40	67
Chardonnay	Osoyoos southeast	63	96
Chardonnay	Oliver south	20	33
Malbec	Osoyoos southeast	0	15
Merlot	Osoyoos northeast	6	31
Merlot	Naramata Bench	77	85
Merlot	Osoyoos southeast	0	0
Merlot	Black Sage	0	0
Pinot gris	Oliver east	56	100
Pinot gris	OK Falls east	93	100
Pinot gris	Naramata Bench	92	100
Pinot noir	OK Falls east	94	100
Pinot noir	Naramata Bench	92	100
Pinot noir	Black Sage	47	100
Riesling	Naramata Bench	100	100
Riesling	Black Sage	0	0
Sauvignon blanc	Oliver east	17	33
Sauvignon blanc	Black Sage	31	59
Shiraz	Osoyoos northeast	0	0
Shiraz	Osoyoos southeast	13	0
Shiraz	Black Sage	8	31
Viognier	Osoyoos southeast	32	43

Table prepared by Ben-Min Chang, AAFC-SuRDC

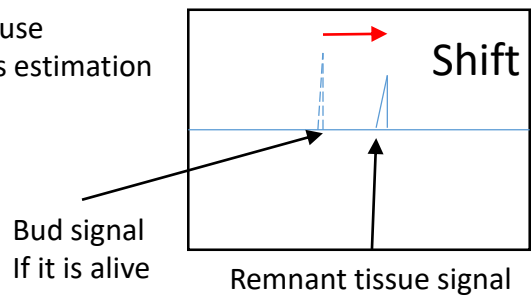


Healthy buds

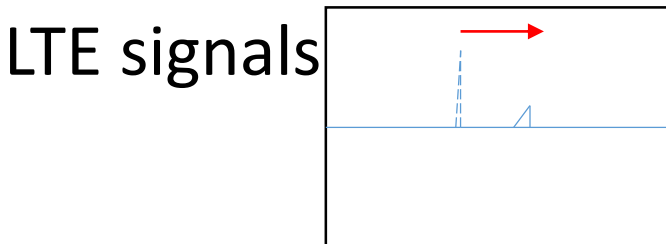


Partially damaged

Signal shift might cause inaccurate hardness estimation



Remnant tissue



No LTE signal

