

## 2019 - 2020 Winter Grape Bud Hardiness Okanagan Valley BC

Variety	Location	sample day	Avg LTE/vine (Oct 22-24)	Avg LTE/vine (Nov 6,7)	Avg LTE/vine (Nov 20,21)	Avg LTE/vine (Dec 4,5)	Avg LTE/vine (Dec 18,19)	Avg LTE/vine (Jan 2,3)	Avg LTE/vine (Jan 15,16)	Avg LTE/vine (Jan 29,30)	Avg LTE/vine (Feb 12,13)	Avg LTE/vine (Feb 26,27)	Avg LTE/vine (Mar 11,12)	Avg LTE/vine (Mar 25,26)	Avg LTE/vine (Apr 8,9)
Cabernet Franc	Oliver east	Wed	-15.3	-22.0											
Cabernet Franc	Naramata Bench	Wed	-13.5	-18.8											
Cabernet Franc	Black Sage	Thur	-14.7	-20.8											
Cabernet Franc	Osoyoos, southeast	Thur	-17.5	-23.1											
Cabernet Franc	Black Sage	Wed	-14.9	-20.9											
Cabernet Franc	Osoyoos, north	Thur	-15.5	-21.6											
Cabernet Franc *(1yr)	Oliver east	Wed		-19.2											
Cabernet Franc *(2yr)	Oliver east	Wed		-19.9											
Cabernet Sauvignon	Osoyoos northeast	Wed	-16.3	-21.3											
Cabernet Sauvignon	Osoyoos northeast	Wed	-14.1	-20.4											
Cabernet Sauv *(1yr)	Black Sage	Wed		-14.5											
Cabernet Sauvignon	Osoyoos, southeast	Thur	-15.4	-20.2											
Cabernet Sauvignon	Black Sage	Wed	-14.7	-20.0											
Chardonnay	OK Falls, east	Wed	-18.8	-21.3											
Chardonnay	Oliver east	Wed	-18.1	-21.1											
Chardonnay	Naramata Bench	Wed	-15.9	-20.8											
Chardonnay	Osoyoos, southeast	Thur	-16.9	-20.7											
Chardonnay	Black Sage	Wed	-17.0	-21.5											
Chardonnay	Oliver, south	Thur	-17.9	-21.7											
Gewurztraminer	OK Falls, west	Thur	-16.5	-21.3											
Gewurztraminer	Oliver east	Wed	-15.7	-21.2											
Gewurztraminer	Kelowna	Wed	-14.2	-18.4											
Malbec	Osoyoos, southeast	Thur		-20.6											
Malbec	Osoyoos, north	Thur	-16.2	-20.9											
Malbec	Osoyoos, southeast	Thur	-14.3	-20.6											
Merlot	Osoyoos northeast	Thur	-12.6	-19.7											
Merlot	Osoyoos northeast	Thur	-15.8	-19.8											
Merlot	Black Sage	Wed	-15.8	-20.3											
Merlot	Osoyoos northeast	Thur	-15.8	-20.6											
Merlot	Osoyoos northeast	Thur	-15.2	-19.6											
Merlot	Oliver east	Wed	-15.5	-19.7											
Merlot	Naramata Bench	Wed	-13.7	-17.8											
Merlot	Oliver, west	Thur	-14.7	-19.8											
Merlot	Osoyoos west	Thur	-16.6	-20.4											
Merlot	Osoyoos, southeast	Thur	-14.5	-20.0											
Merlot	Black Sage	Thur	-15.4	-20.0											
Merlot	Black Sage	Thur	-14.0	-18.3											
Merlot	Osoyoos, southeast	Thur	-14.1	-19.6											
Pinot blanc	Oliver east	Wed	-16.9	-21.2											
Pinot blanc	Black Sage	Wed	-19.0	-23.4											
Pinot Gris	Oliver east	Thur	-17.6	-22.2											
Pinot Gris	OK Falls, east	Wed	-18.7	-22.5											
Pinot gris	Naramata Bench	Wed	-16.6	-20.4											
Pinot gris	Black Sage	Wed	-18.2	-22.1											
Pinot gris	Oliver east	Thur	-18.6	-23.0											
Pinot Noir	Osoyoos northeast	Wed	-17.8	-22.3											
Pinot Noir	OK Falls, east	Wed	-18.8	-22.4											
Pinot noir	Naramata Bench	Wed	-17.8	-22.8											
Pinot noir	Black Sage	Thur	-15.9	-21.8											
Pinot noir	Kelowna	Wed	-16.7	-22.3											
Riesling	Oliver east	Wed	-15.2	-19.8											
Riesling	Naramata Bench	Wed	-17.0	-21.5											
Riesling	Black Sage	Wed	-14.4	-20.5											
Riesling	West Kelowna	Wed	-18.7	-23.5											
Riesling	Black Sage	Wed	-18.8	-23.1											
Sauv blanc	Osoyoos northeast	Thur	-14.4	-21.4											
Sauv blanc	Osoyoos northeast	Thur	-15.9	-21.4											
Sauv blanc	Oliver east	Thur	-16.1	-21.3											
Sauvignon Blanc	Oliver east	Thur	-16.2	-20.9											
Sauvignon blanc	Black Sage	Thur	-15.7	-21.4											
Sauvignon blanc	Black Sage	Wed	-16.9	-20.8											
Shiraz	Osoyoos northeast	Thur	-12.7	-18.3											
Shiraz	Osoyoos northeast	Wed	-14.3	-18.8											
Shiraz	Osoyoos, southeast	Thur	-15.0	-19.8											
Shiraz	Black Sage	Wed	-16.1	-20.2											
Shiraz cl.174	Osoyoos, southeast	Thur	-12.4	-18.8											
Tempranillo	Oliver, south	Thur	-14.8	-19.5											
Viognier	Osoyoos, southeast	Thur		-19.9											
Viognier	Osoyoos west	Thur	-17.4	-21.9											
Viognier	Osoyoos, southeast	Thur	-14.8	-21.2											
Zinfandel	Osoyoos northeast	Wed	-14.9	-19.5											
Zinfandel *(1yr)	Black Sage	Thur		-16.6											

LTE - Lethal Temperature Exotherm (°C) \*(vine age)

Average LTE/site is the mean temperature for bud death from 3 vines at selected sites in the Okanagan Valley

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