

## 2017 - 2018 Winter Grape Bud Hardiness Okanagan Valley BC

Variety	Location	sample day	Avg LTE/vine (Nov 7,8)	Avg LTE/vine (Nov 21,22)	Avg LTE/vine (Dec 5,6)	Avg LTE/vine (Dec 19,20)	Avg LTE/vine (Jan 2,3)	Avg LTE/vine (Jan 16,18)	Avg LTE/vine (Jan 30,31)	Avg LTE/vine (Feb 13,14)	Avg LTE/vine (Feb 27,28)	Avg LTE/vine (Mar 13,14)	Avg LTE/vine (Mar 27,28)	Avg LTE/vine (Apr 3,4)
Cabernet Franc	Oliver east	Tues	-20.9	-20.6	-23.4	-23.3	-25.8	-23.2						
Cabernet Franc	Black Sage	Tues	-21.1	-20.5	-23.4	-22.2	-25.7	-21.6						
Cabernet Franc	Black Sage	Wed	-20.1	-19.4	-22.3	-22.4	-25.1	-23.1						
Cabernet Franc	Osoyoos, southeast	Wed	-19.9	-21.7	-22.6		-26.8							
Cabernet Franc	Osoyoos, north	Wed	-19.7	-21.1	-21.6		-23.6							
Cabernet Sauvignon	Osoyoos northeast	Tues	-19.8	-20.5	-22.6	-22.9		-23.2						
Cabernet Sauvignon	Osoyoos northeast	Tues	-17.7	-18.8	-21.1	-22.1		-21.5						
Cabernet Sauvignon	Black Sage	Tues	-19.3	-19.1	-21.5	-21.9	-23.6	-22.3						
Cabernet Sauvignon	Osoyoos, southeast	Wed	-20.0	-20.3	-21.5		-26.0							
Chardonnay	OK Falls, east	Tues	-21.5	-22.0	-24.0	-23.0		-24.0						
Chardonnay	Oliver east	Tues	-22.2	-22.3	-24.3	-23.9	-25.7	-23.9						
Chardonnay	Black Sage	Tues	-21.9	-22.0	-23.9	-24.0	-25.3	-23.4						
Chardonnay	Naramata bench	Tues	-22.1	-22.1	-23.3	-22.5	-25.2							
Chardonnay	Osoyoos, southeast	Wed	-22.1	-22.8	-24.3		-25.8							
Chardonnay	Oliver, south	Wed	-21.9	-21.9	-23.0	-24.6	-25.1	-23.3						
Gewurztraminer	OK Falls, west	Tues	-19.7	-20.5	-22.9	-22.5	-23.2	-21.6						
Gewurztraminer	Oliver east	Tues	-19.7	-20.4	-23.1	-22.0		-21.9						
Gewurztraminer	Kelowna	Tues	-18.8	-19.1	-21.1	-21.4	-22.6	-22.4						
Malbec	Osoyoos, north	Wed	-21.3	-20.0	-21.3		-25.8							
Merlot	Osoyoos northeast	Tues	-19.8	-20.3	-22.4	-22.3	-24.2	-21.9						
Merlot	Black Sage	Tues	-20.3	-20.9	-22.1	-21.4	-23.6	-20.1						
Merlot	Osoyoos northeast	Wed	-21.1	-22.2	-23.9	-23.7	-24.9	-24.0						
Merlot	Osoyoos northeast	Wed	-20.3	-21.4	-22.8	-23.0	-25.0	-22.4						
Merlot	Osoyoos northeast	Wed	-21.1	-21.5	-22.5	-22.9	-24.5	-22.8						
Merlot	Osoyoos northeast	Wed	-20.6	-21.1	-23.1	-23.5	-25.2	-22.8						
Merlot	Oliver east	Wed	-20.8	-20.5	-22.6	-22.3	-24.8	-22.1						
Merlot	Oliver, west	Wed	-19.5	-19.4	-19.3	-20.5	-23.8	-19.5						
Merlot	Osoyoos west	Wed	-20.5	-21.9	-22.3		-25.0							
Merlot	Osoyoos, southeast	Wed	-19.2	-20.8	-22.0		-25.7							
Merlot	Black Sage	Wed	-20.0	-18.2	-22.5	-21.7	-25.3	-22.6						
Merlot	Black Sage	Wed	-20.8	-21.4	-22.7	-22.9	-25.5	-22.1						
Pinot blanc	Oliver east	Tues	-21.1	-21.8	-23.4	-22.4		-23.2						
Pinot blanc	Black Sage	Tues	-21.6	-21.6	-23.5	-21.5	-22.8	-22.1						
Pinot gris	OK Falls, east	Tues	-22.7	-22.3	-23.7	-23.3		-22.7						
Pinot gris	Oliver east	Tues	-21.3	-22.2	-23.2	-22.7	-27.1	-24.3						
Pinot gris	Black Sage	Tues	-22.3	-22.3	-23.5	-22.9	-25.2	-23.0						
Pinot gris	Naramata bench	Tues	-20.7	-20.1	-22.9	-21.9	-25.3							
Pinot gris	Oliver east	Wed	-22.3	-23.2	-24.7	-23.7	-26.8	-24.7						
Pinot noir	Osoyoos northeast	Tues	-22.1	-22.6	-23.7	-23.2		-23.5						
Pinot noir	Kelowna	Tues	-20.4	-21.3	-22.3	-22.7	-23.6	-23.3						
Pinot noir	Naramata bench	Tues	-21.0	-20.2	-21.6	-21.8	-24.8							
Pinot noir	Black Sage	Wed	-22.0	-21.7	-23.5	-23.9	-26.2	-24.5						
Riesling	Oliver east	Tues	-20.7	-21.4	-23.2	-22.6		-23.0						
Riesling	Black Sage	Tues	-23.2	-21.5	-24.5	-23.3	-23.8	-23.3						
Riesling	West Kelowna	Tues	-20.3	-20.3	-22.6	-23.2	-23.8	-23.7						
Riesling	Naramata bench	Tues	-20.9	-21.3	-22.9	-22.0	-25.3							
Riesling	Black Sage	Tues	-21.2	-21.9	-23.5	-23.0	-23.4	-21.2						
Sauv blanc	Black Sage	Tues	-20.7	-20.1	-21.7	-22.4	-24.0	-22.1						
Sauv blanc	Black Sage	Tues	-19.1	-20.7	-21.5	-21.1	-26.0	-21.7						
Sauv blanc	Black Sage	Tues	-20.6	-20.7	-23.3	-21.9	-25.4	-21.7						
Sauv blanc	Black Sage	Wed	-19.0	-19.7	-22.1	-22.1	-23.7	-21.6						
Sauvignon blanc	Oliver east	Tues	-20.5	-20.6	-22.5	-22.7		-22.3						
Sauvignon blanc	Oliver east	Tues	-20.9	-21.0	-23.4	-22.4	-26.3	-23.2						
Sauvignon blanc	Osoyoos northeast	Wed	-18.8	-20.0	-22.0	-22.4	-23.2	-22.2						
Sauvignon blanc	Osoyoos northeast	Wed	-19.4	-20.8	-21.7	-22.3	-24.0	-21.8						
Sauvignon blanc	Osoyoos northeast	Wed	-19.5	-20.6	-22.6	-23.0	-22.7	-22.8						
Sauvignon blanc	Oliver east	Wed	-20.8	-21.9	-23.9	-23.6	-25.0	-23.2						
Sauvignon blanc	Oliver east	Wed	-21.1	-21.0	-22.4	-22.3	-23.0	-22.3						
Shiraz	Osoyoos northeast	Tues	-17.7	-18.0	-20.6	-20.8	-23.5	-20.9						
Shiraz	Osoyoos northeast	Tues	-18.4	-18.7	-20.2	-21.6	-20.9	-21.3						
Shiraz	Black Sage	Tues	-19.6	-19.5	-21.6	-20.8	-21.2	-20.4						
Shiraz	Osoyoos, southeast	Wed	-21.3	-20.9	-21.9		-25.4							
Shiraz	Osoyoos, southeast	Wed	-17.8	-18.1	-21.2		-23.4							
Shiraz	Osoyoos, southeast	Wed	-18.3	-18.7	-22.1		-19.1							
Viognier	Osoyoos west	Wed	-21.3	-21.9	-24.4		-25.8							

Avg LTE/site is the mean temperature for bud death from 3 vines at selected sites in the Okanagan Valley  
 LTE - Lethal Temperature Exotherm (°C)

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