

Grapevine Bud Hardiness in the Okanagan Valley, BC, 2022-2023. Steve Marsh, Agriculture and Agri-Food Canada, Summerland, BC.

Variety	Location	sample day	Avg LTE50 (Nov 2,3)	Avg LTE50 (Nov 8,9)	LTE50 (Nov 23,24)	Avg LTE50 (Dec 7,8)	Avg LTE50 (Dec 21,22)	Avg LTE50 (Jan 4,5)	Avg LTE50 (Jan 18,19)	Avg LTE50 (Feb 1)	Avg LTE50 (Feb 14,15)	Avg LTE50 (Mar 1,2)	Avg LTE50 (Mar 15,16)	Avg LTE50 (Mar 28,29)	Avg LTE50 (Apr 4,5)
Cabernet Sauv	Osoyoos northeast	Wed	-15.3	-17.0	-18.5	-22.0	-22.7	-22.3	-11.1	-21.5		-21.3	-21.8	-18.9	-19.2
Cabernet Sauv	Black Sage	Thur	-12.3	-18.1	-19.4	-22.3		-20.0	-14.1	-21.9	-21.0	-21.3	-20.3	-17.9	-17.5
Cabernet Sauv	Osoyoos southeast	Thur	-14.3	-15.7	-19.5	-20.9	-22.3	-19.8	-12.2	-23.8	-20.6	-20.4	-20.1	-18.2	-18.7
Cabernet Sauv	Black Sage	Wed		-17.6	-19.7	-21.3	-20.2	-18.7	-11.4						
Chardonnay	OK Falls east	Wed	-16.1	-19.3	-21.7	-23.1	-23.0	-21.9	-11.4	-23.1	-21.6	-21.5	-21.4	-16.3	-15.4
Chardonnay	Naramata Bench	Wed	-12.9	-17.2	-18.7	-20.7	-21.4	-21.0	-13.5	-21.7	-20.0	-18.9	-19.0	-15.7	-14.0
Chardonnay	Osoyoos southeast	Thur	-16.7	-20.0	-21.1	-23.0	-22.3	-21.9	-19.7	-23.3	-22.2	-22.1	-21.0	-17.3	-16.8
Chardonnay	Oliver south	Thur	-17.5	-19.9	-21.7	-22.5	-22.3	-17.4	-13.5		-20.8	-21.6	-19.3		
Malbec	Osoyoos southeast	Thur	-13.5	-18.8	-19.1	-20.3	-22.7	-12.5	-9.8						
Merlot	Osoyoos northeast	Thur	-16.1	-18.8	-20.9	-22.4	-22.6	-13.9	-12.2	-21.0		-21.7	-20.4	-18.4	-16.5
Merlot	Naramata Bench	Wed	-13.0	-18.2	-20.7	-22.6	-22.1	-20.2	-10.7	-21.1	-21.4	-19.5	-20.1	-15.2	-16.8
Merlot	Osoyoos southeast	Thur	-15.3	-18.0	-20.5	-22.0	-22.7	-13.4	-10.9						
Merlot	Black Sage	Thur	-14.4	-14.3	-20.9	-21.0	-22.4	-19.7	-10.1						
Pinot gris	Oliver east	Wed	-14.8	-19.9	-21.9	-24.0	-22.4	-21.4	-15.1						-18.5
Pinot gris	OK Falls east	Wed	-16.7	-21.1	-23.6	-23.8	-23.0	-22.8	-16.1	-23.2	-22.4	-22.2	-21.8	-18.8	-18.2
Pinot gris	Naramata Bench	Wed	-15.5	-19.2	-20.8	-23.2	-23.0	-22.2	-22.3	-22.7	-21.8	-22.3	-22.2	-19.5	-19.8
Pinot gris	Black Sage	Wed	-16.9	-18.8	-20.9	-23.2	-22.4	-20.2	-17.0	-22.7	-22.9	-21.2	-20.5	-20.3	-17.7
Pinot noir	OK Falls east	Wed	-17.9		-21.5	-25.0		-22.4			-22.2		-22.0	-19.9	-19.7
Pinot noir	Naramata Bench	Wed	-16.4	-20.5	-21.2	-23.5	-23.1	-22.4	-21.9	-21.7	-22.4	-22.7	-22.7	-19.0	-19.3
Pinot noir	Black Sage	Thur	-18.0	-19.8	-22.3	-23.4	-22.2	-22.4	-10.9	-22.6	-22.1	-21.1	-21.3	-17.7	-19.0
Riesling	Naramata Bench	Wed	-14.6	-18.3	-20.4	-22.9	-22.9	-21.9	-20.8	-22.1	-21.8	-21.7	-21.5	-18.5	-18.6
Riesling	Black Sage	Wed	-13.0	-17.7	-19.8	-22.2	-23.0	-17.7	-18.9						
Riesling	Black Sage	Wed		-18.2	-21.0	-21.0	-22.4	-20.0	-21.1	-22.3	-20.9				
Sauvignon blanc	Oliver east	Thur	-13.7	-18.1	-19.3	-23.4	-21.8	-19.7	-17.2						
Sauvignon blanc	Black Sage	Thur	-14.6	-16.0	-19.2	-21.2	-22.2	-18.4	-12.9	-22.4			-20.3		
Sauvignon blanc	Black Sage	Wed	-15.2	-17.9	-19.1	-22.2	-23.2	-16.2	-12.4		-19.2	-22.3	-21.4	-17.7	-18.2
Sauvignon blanc	Oliver east	Wed	-13.6	-17.6	-21.3	-22.4	-22.4	-21.4	-13.4						
Shiraz	Osoyoos northeast	Wed	-13.7	-16.7	-17.6	-21.2	-22.8	-20.9	-10.4						
Shiraz	Osoyoos northeast	Thur	-14.5	-17.1	-20.3	-20.6	-22.4	-12.8	-9.6						
Shiraz	Osoyoos southeast	Thur	-14.2	-17.1	-18.7	-21.5	-22.5	-13.7	-10.6						
Shiraz	Black Sage	Wed	-13.7	-18.0	-20.5	-21.6	-22.3	-16.9	-10.9						
Viognier	Osoyoos southeast	Thur	-13.7	-17.5	-20.7	-21.8	-22.7	-19.7	-18.0						

LTE: Lethal temperature exotherm (°C). AVG LTE50: Average lethal temperature exotherm at 50% bud mortality for buds collected from 3 vines at selected sites in the Okanagan Valley.