

Grapevine Bud Hardiness in the Okanagan Valley, BC, 2023-2024. Steve Marsh, Agriculture and Agri-Food Canada, Summerland, BC.

Variety	Location	sample day	Avg LTE50 (Oct 31,Nov 1)	Avg LTE50 (Nov 7,8)	Avg LTE50 (Nov 21,22)	Avg LTE50 (Dec 5,6)	Avg LTE50 (Dec 18,19)	Avg LTE50 (Jan 2,3)	Avg LTE50 (Jan 18,19)	Avg LTE50 (Jan 30,31)	Avg LTE50 (Feb 13,14)	Avg LTE50 (Feb 27,28)	Avg LTE50 (Mar 12,13)	Avg LTE50 (Mar 26,27)	Avg LTE50 (Apr 2,3)
Cabernet Franc	Oliver east	Tues		-18.3	-21.4	-22.5	-22.7	-22.7							
Cabernet Franc	Black Sage	Wed	-17.1	-17.1	-20.2	-21.7	-21.8	-21.7							
Cabernet Sauv	Osoyoos northeast	Tues	-18.1	-17.7	-21.2	-22.3	-22.6	-23.1							
Cabernet Sauv	Osoyoos northeast	Tues	-16.6	-17.7	-21.2	-21.1	-23.0	-22.5							
Cabernet Sauv (2yr)	Black Sage	Tues	-19.0	-18.6	-21.4	-22.0	-22.2	-22.8							
Cabernet Sauvignon	Black Sage	Wed	-18.0	-19.0	-21.8	-22.0	-22.2	-21.8							
Cabernet Sauvignon	Osoyoos, southeast	Wed	-17.3	-18.5	-21.7	-23.1	-22.0	-22.9							
Chardonnay	OK Falls, east	Tues	-20.5	-20.2	-22.8	-23.5	-23.6	-23.6							
Chardonnay	Naramata Bench	Tues	-18.5	-19.0	-21.2	-22.3	-22.4	-23.1							
Chardonnay	Black Sage	Wed	-19.2	-19.7	-21.5	-22.7	-22.3	-22.7							
Chardonnay	Osoyoos, southeast	Wed	-21.5	-21.7	-23.3	-24.2	-23.7	-24.2							
Chardonnay	Oliver, south	Wed	-20.5	-20.8	-22.2	-22.6	-23.0	-22.9							
Chardonnay	Oliver, south	Wed	-19.3	-19.9	-22.2	-23.2	-22.8	-23.6							
Gewurztraminer	OK Falls, west	Tues	-18.9	-19.1	-21.6	-21.9	-22.3	-22.3							
Malbec	Osoyoos, southeast	Wed	-17.3	-18.6	-22.6	-22.6	-22.8	-22.3							
Merlot	Osoyoos northeast	Tues	-17.8	-18.2	-21.4	-22.0	-22.7	-22.2							
Merlot	Naramata Bench	Tues	-15.8							
Merlot	Osoyoos, southeast	Wed	-18.2	-18.4	-20.9	-21.6	-22.1	-20.3							
Pinot gris	Oliver east	Tues	-19.0	-21.1	-23.0	-23.5	-23.8	-23.3							
Pinot gris	OK Falls, east	Tues	-20.2	-20.8	-24.7	-23.9	-24.2	-23.9							
Pinot gris	Naramata Bench	Tues	-19.4	-18.2	-22.1	-22.5	-22.6	-22.0							
Pinot gris	Black Sage	Wed	-19.2	-19.1	-23.0	-23.1	-23.2	-23.0							
Pinot noir	Naramata Bench	Tues	-20.4	-19.7	-23.0	-23.4	-23.5	-23.5							
Pinot noir	Black Sage	Wed	-19.5	-20.0	-23.1	-23.2	-23.6	-23.0							
Riesling	Oliver east	Tues	-18.1	-18.4	-21.6	-23.0	-22.5	-22.6							
Riesling	Naramata Bench	Tues	-20.4	-20.9	-22.9	-23.7	-24.1	-24.5							
Sauvignon blanc	Oliver east	Tues	-17.8	-19.2	-22.6	-22.5	-22.4	-22.5							
Sauvignon blanc	Oliver east	Tues	-17.9	-21.1	-23.0	-22.4	-22.4	-23.1							
Sauvignon blanc	Black Sage	Wed	-17.7	-19.5	-21.2	-21.3	-22.3	-21.9							
Shiraz	Osoyoos northeast	Tues	-18.4	-17.5	-20.7	-21.1	-21.9	-22.5							
Shiraz	Osoyoos northeast	Tues	-16.5	-16.8	-20.8	-22.3	-22.9	-23.0							
Shiraz	Osoyoos, southeast	Wed	-17.7	-18.5	-21.3	-22.4	-23.1	-22.5							
Shiraz	Black Sage	Wed	-18.7	-20.6	-22.0	-23.5	-21.5	-22.7							
Viognier	Osoyoos, southeast	Wed	-18.0	-18.9	-22.2	-22.4	-23.3	-21.6							
Viognier	Osoyoos west	Wed	-18.1	-18.5	-21.6	-22.5	-22.2	-22.3							
Zinfandel	Osoyoos northeast	Tues	-16.5	-16.6	-18.5	-20.1	-21.0	-20.6							
Zinfandel (2yr)	Black Sage	Tues	-16.8	-16.9	-20.1	-21.3	-21.1	-21.5							

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.