

2013 - 2014 Winter Grape Bud Hardiness Okanagan Valley BC

Location	Variety	Avg LTE/site (Oct 25)	Avg LTE/site (Nov 8)	Avg LTE/site (Nov 22)	Avg LTE/vine (Dec 6)	Avg LTE/site (Dec 20)	Avg LTE/site (Jan 3)	Avg LTE/vine (Jan 17)	Avg LTE/site (Jan 31)	Avg LTE/site (Feb 14)	Avg LTE/site (Feb 28)	Avg LTE/site (Mar 14)	Avg LTE/site (Mar 27)	Avg LTE/site (Apr 11)
Black Sage	Cabernet Franc	-12.9	-17.7	-22.4	-23.8	-23.9	-23.5	-22.6	-23.7	-23.0	-23.0	-17.6	-13.3	-10.3
Oliver, east	Cabernet Franc	-13.1	-18.2	-22.6	-24.4	-24.1	-23.4	-22.9	-23.5	-21.1	-22.8	-18.4	-17.1	-10.3
Osoyoos, northeast	Cabernet Sauvignon	-12.9	-17.0	-22.3	-23.9	-22.8	-22.3	-22.6	-22.7	-21.2	-23.5	-20.1	-17.4	-10.2
Osoyoos, northeast	Cabernet Sauvignon	-11.9	-15.8	-21.7	-23.5	-23.1	-22.7	-22.0	-22.3	-21.3	-21.8	-18.2	-15.1	-10.4
Osoyoos, southeast	Cabernet Sauvignon	-11.8	-17.9	-23.2	-24.1	-22.5	-23.2	-22.9	-23.5	-22.0	-22.7	-18.8	-15.4	-10.7
Black Sage	Cabernet Sauvignon	-11.3	-17.5	-21.3	-24.2	-23.1	-22.5	-21.8	-23.1	-22.7	-23.5	-19.9	-18.8	-11.7
Osoyoos, southeast	Chardonnay	-14.2	-20.7	-23.5	-25.3	-24.6	-24.4	-23.8	-23.7	-23.1	-23.9	-19.3	-14.8	-10.6
Black Sage	Chardonnay	-13.1	-19.1	-22.4	-24.3	-24.4	-23.0	-22.6	-23.2	-22.9	-22.6	-18.3	-15.2	-10.2
Naramata Bench	Chardonnay	-13.6	-18.9	-22.0	-22.4	-23.1	-22.9	-22.3	-23.2	-22.4	-23.3	-17.9	-14.9	-10.3
OK Falls, east	Chardonnay	-14.2	-19.4	-23.8	-24.6	-24.4	-21.9	-22.9	-24.0	-21.9	-22.5	-17.0	-14.7	-9.5
Oliver, east	Chardonnay	-14.4	-19.0	-22.8	-23.7	-24.0	-23.1	-23.5	-23.1	-22.7	-21.5	-15.7	-14.9	-12.0
OK Falls, west	Gewurztraminer	-13.0	-19.2	-22.0	-22.8	-22.9			-23.2	-22.4	-20.2	-17.6	-15.0	-10.7
Oliver, east	Gewurztraminer	-13.2	-19.9	-22.0	-23.2	-22.7	-22.5	-22.0	-22.7	-21.5	-22.8	-17.9	-16.2	-9.7
Oliver, west	Merlot	-11.1	-13.8	-19.3	-22.0	-20.8	-19.2	-21.7	-21.4	-19.9	-20.3	-18.7	-15.9	-8.7
Osoyoos, northeast	Merlot	-12.6	-17.9	-21.3	-22.3	-23.1	-22.2	-22.3	-22.8	-20.9	-20.8	-19.0	-16.8	-10.1
Black Sage	Merlot	-12.5	-19.5	-22.4	-23.3	-22.3	-23.2	-22.8	-23.0	-22.6	-21.8	-19.1	-15.5	-9.1
Black Sage	Pinot blanc	-13.6	-19.3	-24.5	-23.0	-23.4	-22.8	-23.0	-24.3	-23.2	-22.8	-20.1	-18.5	-11.3
Oliver, east	Pinot blanc	-14.2	-20.7	-22.7	-23.1	-24.4	-22.2	-23.1	-24.1	-22.9	-22.5	-20.5	-16.3	-10.9
Black Sage	Pinot gris	-15.1	-20.0	-23.8	-24.3	-25.2	-23.8	-24.4	-22.0	-23.4	-24.3	-19.8	-17.0	-11.0
Oliver, east	Pinot gris	-16.0	-21.7	-25.1	-22.0	-25.3	-24.4	-24.7	-23.3	-24.4	-23.4	-21.8	-19.2	-12.4
Naramata Bench	Pinot gris	-12.2	-16.3	-21.8	-22.7	-23.9	-21.8	-22.6	-23.3	-22.1	-22.6	-19.3	-16.2	-10.2
OK Falls, east	Pinot gris	-16.4	-20.1	-24.0	-24.9	-25.3	-23.4	-23.7	-23.6	-22.9	-23.6	-19.4	-17.9	-11.0
Oliver, east	Pinot gris	-13.9	-19.5	-22.2	-23.6	-23.4	-22.2	-22.6	-24.4	-21.5	-22.4	-17.7	-16.8	-10.5
Black Sage	Pinot noir	-14.6	-19.3	-23.7	-25.1	-24.2	-24.1	-23.7	-24.1	-22.1	-24.0	-19.7	-17.4	-9.5
Kelowna	Pinot noir	-14.0	-20.0	-22.6	-23.7	-24.4	-23.1	-22.9	-23.0	-23.2	-22.9	-19.3	-16.0	-11.3
Osoyoos, northeast	Pinot noir	-14.6	-20.6	-23.0	-23.2	-24.4	-23.6	-24.4	-23.3	-22.3	-20.5	-20.0	-18.0	-11.1
Black Sage	Riesling	-13.4	-21.5	-22.8	-25.1	-24.1	-24.0	-23.7	-23.8	-22.3	-24.1	-21.3	-18.8	-10.9
West Kelowna	Riesling	-11.8	-17.9	-20.7	-23.3	-22.2	-22.3	-21.7	-22.6	-21.9	-22.4	-18.2	-16.9	-9.2
Oliver, east	Riesling	-16.4	-19.8	-23.1	-22.6	-22.0	-22.4	-23.2	-23.1	-24.1	-23.5	-21.0	-18.8	-11.2
Black Sage	Sauvignon blanc	-12.1	-17.3	-21.4	-23.2	-21.8	-21.6	-21.5	-22.0	-20.5	-21.7	-18.9	-15.1	-9.6
Oliver, east	Sauvignon blanc	-15.2	-18.9	-22.5	-23.5	-23.1	-22.1	-22.0	-22.4	-20.8	-21.4	-18.5	-16.1	-9.3
Oliver, east	Sauvignon blanc	-12.9	-19.9	-22.9	-24.1	-23.1	-21.9	-22.9	-23.2	-21.9	-21.7	-19.2	-15.6	-10.1
Osoyoos, southeast	Shiraz	-13.1	-17.1	-22.7	-23.8	-23.7	-23.5	-24.0	-23.3	-22.3	-23.0	-19.6	-17.9	-11.5
Black Sage	Shiraz	-12.5	-16.2	-20.2	-22.9	-23.2	-21.8	-21.7	-23.4	-20.2	-20.0	-20.0	-16.4	-12.9
Osoyoos, northeast	Shiraz	-11.3	-15.2	-20.4	-21.6	-21.9	-21.1	-21.0	-22.0	-21.6	-21.3	-18.4	-14.0	-9.8
Osoyoos, northeast	Shiraz	-12.9	-16.0	-18.8	-21.4	-21.0	-21.1	-21.8	-21.8	-18.7	-21.3	-19.0	-17.0	-9.9
Average Bud Hardiness (all sites, all varieties)		-13.4	-18.6	-22.3	-23.5	-23.4	-22.7	-22.8	-23.1	-22.1	-22.4	-19.0	-16.4	-10.5

LTE - Lethal Temperature Exotherm (°C)

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

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