

## 2015 - 2016 Winter Grape Bud Hardiness Okanagan Valley BC

Location	Variety	Avg LTE	sample date	Avg LTE	sample date	Avg LTE	sample date	Avg LTE	sample date	Avg LTE	sample date	Avg LTE	sample date	Avg LTE	sample date	Avg LTE	sample date	Avg LTE	sample date	Avg LTE	sample date	Avg LTE	sample date	Avg LTE	sample date
Osoyoos, southeast	Cabernet Franc			-16.0	05-Nov	-20.5	19-Nov	-22.4	03-Dec	-23.7	17-Dec														
Black Sage	Cabernet Franc	-14.1	27-Oct	-19.1	10-Nov	-22.1	24-Nov	-22.0	08-Dec	-23.4	22-Dec	-25.2	05-Jan												
Oliver east	Cabernet Franc	-14.4	27-Oct	-18.1	10-Nov	-22.5	24-Nov	-21.8	08-Dec	-24.7	22-Dec	-25.2	05-Jan												
Osoyoos, southeast	Cabernet Sauvignon			-17.2	10-Nov	-19.3	24-Nov	-21.0	08-Dec	-21.6	22-Dec	-24.1	05-Jan												
Black Sage	Cabernet Sauvignon	-13.0	27-Oct	-16.6	10-Nov	-20.5	24-Nov	-20.6	08-Dec	-23.3	22-Dec	-23.9	05-Jan												
Osoyoos northeast	Cabernet Sauvignon	-14.3	27-Oct	-18.6	10-Nov	-21.2	24-Nov	-20.8	08-Dec	-22.2	22-Dec	-24.5	05-Jan												
Osoyoos northeast	Cabernet Sauvignon	-12.7	27-Oct	-17.6	10-Nov	-20.9	24-Nov	-21.8	08-Dec	-23.3	22-Dec	-24.4	05-Jan												
Osoyoos, southeast	Chardonnay			-20.7	05-Nov	-22.2	19-Nov	-22.6	03-Dec	-23.9	17-Dec														
Black Sage	Chardonnay	-15.0	22-Oct	-19.0	05-Nov	-22.0	19-Nov	-23.0	03-Dec	-23.7	17-Dec														
Naramata bench	Chardonnay			-20.2	10-Nov	-22.1	24-Nov	-22.5	08-Dec	-22.0	22-Dec	-23.4	05-Jan												
OK Falls, east	Chardonnay	-15.7	27-Oct	-22.0	10-Nov	-22.8	24-Nov	-23.5	08-Dec	-21.8	22-Dec	-24.3	05-Jan												
Oliver east	Chardonnay	-16.5	27-Oct	-20.7	10-Nov	-23.3	24-Nov	-22.2	08-Dec	-23.4	22-Dec	-25.0	05-Jan												
Kelowna	Gewurztraminer			-17.6	10-Nov	-20.2	24-Nov	-21.2	08-Dec	-21.1	22-Dec	-23.1	05-Jan												
OK Falls, west	Gewurztraminer	-13.9	27-Oct	-19.6	10-Nov	-22.0	24-Nov	-21.6	08-Dec	-22.1	22-Dec	-23.7	05-Jan												
Oliver east	Gewurztraminer	-16.7	27-Oct	-21.1	10-Nov	-22.6	24-Nov	-22.0	08-Dec	-22.6	22-Dec	-25.1	05-Jan												
Osoyoos west	Merlot			-17.0	05-Nov	-20.1	19-Nov	-19.6	03-Dec	-22.8	17-Dec														
Oliver, west	Merlot	-12.8	27-Oct	-17.4	10-Nov	-20.3	24-Nov	-19.9	08-Dec	-22.5	22-Dec	-24.0	05-Jan												
Osoyoos northeast	Merlot	-15.9	27-Oct	-19.7	10-Nov	-22.2	24-Nov	-22.2	08-Dec	-23.2	22-Dec	-24.0	05-Jan												
Black Sage	Merlot	-14.4	27-Oct	-19.3	10-Nov	-21.1	24-Nov	-22.0	08-Dec	-21.9	22-Dec	-23.7	05-Jan												
Black Sage	Pinot blanc	-14.0	27-Oct	-20.0	10-Nov	-22.1	24-Nov	-22.3	08-Dec	-23.3	22-Dec	-24.4	05-Jan												
Oliver east	Pinot blanc	-18.3	27-Oct	-23.3	10-Nov	-23.8	24-Nov	-23.6	08-Dec	-23.1	22-Dec	-26.2	05-Jan												
Oliver east	Pinot gris	-18.6	22-Oct	-21.0	05-Nov	-22.6	19-Nov	-23.8	03-Dec	-25.5	17-Dec														
Black Sage	Pinot gris	-15.2	27-Oct	-20.7	10-Nov	-23.6	24-Nov	-23.1	08-Dec	-23.0	22-Dec	-25.2	05-Jan												
Naramata bench	Pinot gris			-18.3	10-Nov	-21.5	24-Nov	-21.2	08-Dec	-21.7	22-Dec	-23.0	05-Jan												
OK Falls, east	Pinot gris	-17.2	27-Oct	-22.3	10-Nov	-23.6	24-Nov	-23.4	08-Dec	-23.9	22-Dec	-25.5	05-Jan												
Oliver east	Pinot gris	-16.7	27-Oct	-21.8	10-Nov	-23.8	24-Nov	-23.9	08-Dec	-23.4	22-Dec	-26.2	05-Jan												
Naramata bench	Pinot noir			-17.2	10-Nov	-21.7	24-Nov	-22.5	08-Dec	-22.2	22-Dec	-24.1	05-Jan												
Black Sage	Pinot noir	-16.4	27-Oct	-20.2	10-Nov	-23.9	24-Nov	-23.9	08-Dec	-24.6	22-Dec	-25.8	05-Jan												
Kelowna	Pinot noir			-20.9	10-Nov	-22.7	24-Nov	-21.7	08-Dec	-22.6	22-Dec	-24.1	05-Jan												
Osoyoos northeast	Pinot noir	-15.9	27-Oct	-21.3	10-Nov	-22.7	24-Nov	-23.3	08-Dec	-23.5	22-Dec	-25.3	05-Jan												
Naramata bench	Riesling			-19.0	10-Nov	-22.9	24-Nov	-23.7	08-Dec	-23.9	22-Dec	-26.0	05-Jan												
Black Sage	Riesling	-16.1	27-Oct	-19.3	10-Nov	-22.7	24-Nov	-22.8	08-Dec	-23.1	22-Dec	-23.5	05-Jan												
Black Sage	Riesling	-17.2	27-Oct	-21.4	10-Nov	-23.7	24-Nov	-24.5	08-Dec	-24.7	22-Dec	-24.5	05-Jan												
West Kelowna	Riesling			-19.9	10-Nov	-23.3	24-Nov	-23.2	08-Dec	-23.8	22-Dec	-25.3	05-Jan												
Oliver east	Riesling	-17.7	27-Oct	-21.2	10-Nov	-23.5	24-Nov	-22.3	08-Dec	-24.2	22-Dec	-26.1	05-Jan												
Oliver east	Sauvignon blanc	-14.3	27-Oct	-18.8	10-Nov	-21.8	24-Nov	-22.0	08-Dec	-22.7	22-Dec	-24.1	05-Jan												
Oliver east	Sauvignon blanc	-14.7	27-Oct	-20.3	10-Nov	-22.2	24-Nov	-22.0	08-Dec	-22.6	22-Dec	-24.5	05-Jan												
Osoyoos, southeast	Shiraz			-15.6	05-Nov	-19.5	19-Nov	-21.4	03-Dec	-22.5	17-Dec														
Osoyoos, southeast	Shiraz			-13.5	05-Nov	-18.5	19-Nov	-20.8	03-Dec	-22.3	17-Dec														
Osoyoos, southeast	Shiraz			-19.0	10-Nov	-21.1	24-Nov	-21.3	08-Dec	-21.7	22-Dec	-24.6	05-Jan												
Black Sage	Shiraz	-12.9	27-Oct	-18.5	10-Nov	-20.8	24-Nov	-19.6	08-Dec	-23.1	22-Dec	-23.0	05-Jan												
Osoyoos northeast	Shiraz	-12.8	27-Oct	-15.4	10-Nov	-20.3	24-Nov	-20.3	08-Dec	-22.0	22-Dec	-23.6	05-Jan												
Osoyoos northeast	Shiraz	-14.5	27-Oct	-17.6	10-Nov	-20.8	24-Nov	-20.4	08-Dec	-22.5	22-Dec	-23.7	05-Jan												
Osoyoos west	Viognier			-17.2	05-Nov	-22.2	19-Nov	-22.7	03-Dec	-24.5	17-Dec														
<b>Average Bud Hardiness (all sites, all varieties)</b>		<b>-15.2</b>		<b>-19.1</b>		<b>-21.9</b>		<b>-22.1</b>		<b>-23.0</b>		<b>-24.5</b>													

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

Carl Bogdanoff - Summerland RDC Wine Grape Research