

2016 - 2017 Winter Grape Bud Hardiness Okanagan Valley BC

	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
Osoyoos, southeast	Cabernet Franc	-14.8	03-Nov	-20.8	17-Nov	-22.8	01-Dec	-26.6	15-Dec			-26.4	12-Jan			-25.6	11-Feb	-23.7	02-Mar				
Black Sage	Cabernet Franc	-16.1	08-Nov	-21.0	22-Nov	-24.3	06-Dec	-25.4	20-Dec	-26.1	03-Jan	-24.4	17-Jan	-24.8	31-Jan	-24.9	14-Feb	-23.9	28-Feb				
Oliver east	Cabernet Franc	-17.7	08-Nov	-21.5	22-Nov	-24.0	06-Dec	-25.0	20-Dec	-25.4	03-Jan	-24.4	17-Jan	-24.5	31-Jan	-25.0	14-Feb	-23.8	28-Feb				
Osoyoos, southeast	Cabernet Sauvignon	-12.9	08-Nov	-18.6	22-Nov	-22.7	06-Dec	-23.2	20-Dec	-24.6	03-Jan	-24.1	17-Jan	-23.2	31-Jan	-23.2	14-Feb	-22.0	28-Feb				
Black Sage	Cabernet Sauvignon	-15.2	08-Nov	-19.9	22-Nov	-22.8	06-Dec	-24.3	20-Dec	-23.7	03-Jan	-25.2	17-Jan	-22.8	31-Jan	-23.2	14-Feb	-22.1	28-Feb				
Osoyoos northeast	Cabernet Sauvignon	-17.4	08-Nov	-20.7	22-Nov	-22.6	06-Dec	-23.9	20-Dec	-24.5	03-Jan	-24.2	17-Jan	-22.5	31-Jan	-23.7	14-Feb	-21.9	28-Feb				
Osoyoos northeast	Cabernet Sauvignon	-15.1	08-Nov	-18.4	22-Nov	-22.7	06-Dec	-23.7	20-Dec	-25.1	03-Jan	-24.7	17-Jan	-22.5	31-Jan	-23.4	14-Feb	-21.8	28-Feb				
Osoyoos, southeast	Chardonnay	-16.7	03-Nov	-21.6	17-Nov	-23.3	01-Dec	-23.4	15-Dec			-26.1	12-Jan			-24.5	11-Feb	-22.8	02-Mar				
Black Sage	Chardonnay	-17.4	03-Nov	-21.8	17-Nov	-23.3	01-Dec	-25.8	15-Dec			-26.8	12-Jan			-25.1	11-Feb	-23.9	02-Mar				
Naramata bench	Chardonnay	-16.1	08-Nov	-19.5	22-Nov	-23.7	06-Dec	-24.6	20-Dec	-24.2	03-Jan	-25.5	17-Jan	-23.8	31-Jan	-23.2	14-Feb	-22.2	28-Feb				
OK Falls, east	Chardonnay	-17.2	08-Nov	-20.4	22-Nov	-23.1	06-Dec	-23.7	20-Dec	-24.9	03-Jan	-26.0	17-Jan	-23.4	31-Jan	-23.1	14-Feb	-22.7	28-Feb				
Oliver east	Chardonnay	-18.8	08-Nov	-21.6	22-Nov	-24.1	06-Dec	-24.7	20-Dec	-25.0	03-Jan	-25.8	17-Jan	-23.5	31-Jan	-24.5	14-Feb	-22.8	28-Feb				
Kelowna	Gewurztraminer	-15.3	08-Nov	-18.0	22-Nov	-21.4	06-Dec	-22.6	20-Dec	-22.8	03-Jan	-23.2	17-Jan	-21.5	31-Jan	-21.8	14-Feb	-21.4	28-Feb				
OK Falls, west	Gewurztraminer	-15.2	08-Nov	-21.1	22-Nov	-24.0	06-Dec	-24.4	20-Dec	-24.4	03-Jan	-24.8	17-Jan	-22.6	31-Jan	-21.6	14-Feb	-20.8	28-Feb				
Oliver east	Gewurztraminer	-17.6	08-Nov	-21.0	22-Nov	-23.4	06-Dec	-22.4	20-Dec	-24.4	03-Jan	-24.8	17-Jan	-22.3	31-Jan	-21.6	14-Feb	-21.2	28-Feb				
Osoyoos west	Merlot	-12.8	03-Nov	-18.3	17-Nov	-20.7	01-Dec	-23.7	15-Dec			-26.2	12-Jan			-22.6	11-Feb	-21.8	02-Mar				
Oliver, west	Merlot	-14.0	08-Nov	-19.2	22-Nov	-22.3	06-Dec	-21.1	20-Dec	-23.8	03-Jan	-22.6	17-Jan	-21.1	31-Jan	-23.0	14-Feb	-21.1	28-Feb				
Osoyoos northeast	Merlot	-14.4	08-Nov	-19.5	22-Nov	-21.9	06-Dec	-23.6	20-Dec	-24.7	03-Jan	-25.3	17-Jan	-22.6	31-Jan	-23.6	14-Feb	-22.3	28-Feb				
Black Sage	Merlot	-17.6	08-Nov	-20.1	22-Nov	-22.3	06-Dec	-23.6	20-Dec	-25.0	03-Jan	-26.5	17-Jan	-23.3	31-Jan	-23.5	14-Feb	-22.0	28-Feb				
Black Sage	Pinot blanc	-17.5	08-Nov	-20.8	22-Nov	-23.9	06-Dec	-23.6	20-Dec	-24.9	03-Jan	-23.5	17-Jan	-24.6	31-Jan	-25.4	14-Feb	-23.8	28-Feb				
Oliver east	Pinot blanc	-18.6	08-Nov	-21.4	22-Nov	-23.8	06-Dec	-24.4	20-Dec	-24.8	03-Jan	-25.9	17-Jan	-24.2	31-Jan	-24.5	14-Feb	-23.8	28-Feb				
Oliver east	Pinot gris	-18.1	03-Nov	-21.8	17-Nov	-23.2	01-Dec	-27.3	15-Dec			-25.6	12-Jan			-25.1	11-Feb	-24.7	02-Mar				
Black Sage	Pinot gris	-17.9	08-Nov	-21.2	22-Nov	-24.6	06-Dec		20-Dec	-26.6	03-Jan	-25.0	17-Jan	-25.7	31-Jan	-25.8	14-Feb	-24.3	28-Feb				
Naramata bench	Pinot gris	-16.0	08-Nov	-15.7	22-Nov	-21.9	06-Dec	-23.9	20-Dec	-25.3	03-Jan	-23.9	17-Jan	-23.7	31-Jan	-23.8	14-Feb	-23.0	28-Feb				
OK Falls, east	Pinot gris	-18.9	08-Nov	-21.6	22-Nov	-24.2	06-Dec	-23.3	20-Dec	-27.0	03-Jan	-25.1	17-Jan	-24.5	31-Jan	-25.2	14-Feb	-24.6	28-Feb				
Oliver east	Pinot gris	-18.1	08-Nov	-21.3	22-Nov	-23.7	06-Dec	-25.2	20-Dec	-25.5	03-Jan	-24.2	17-Jan	-24.9	31-Jan	-25.7	14-Feb	-23.7	28-Feb				
Naramata bench	Pinot noir	-15.5	08-Nov	-16.6	22-Nov	-22.5	06-Dec	-24.1	20-Dec	-25.5	03-Jan	-25.7	17-Jan	-23.9	31-Jan	-24.4	14-Feb	-23.7	28-Feb				
Black Sage	Pinot noir	-17.5	08-Nov	-21.9	22-Nov	-23.8	06-Dec	-25.1	20-Dec	-26.1	03-Jan	-23.8	17-Jan	-24.5	31-Jan	-25.8	14-Feb	-24.2	28-Feb				
Kelowna	Pinot noir	-16.2	08-Nov	-17.2	22-Nov	-22.0	06-Dec	-24.8	20-Dec	-25.8	03-Jan	-24.7	17-Jan	-24.3	31-Jan	-24.8	14-Feb	-23.2	28-Feb				
Osoyoos northeast	Pinot noir	-18.3	08-Nov	-21.2	22-Nov	-23.6	06-Dec	-24.4	20-Dec	-27.0	03-Jan		17-Jan	-24.3	31-Jan	-24.9	14-Feb	-24.1	28-Feb				
Naramata bench	Riesling	-15.6	08-Nov	-17.6	22-Nov	-23.2	06-Dec	-25.0	20-Dec	-26.5	03-Jan	-25.8	17-Jan	-24.6	31-Jan	-24.6	14-Feb	-24.0	28-Feb				
Black Sage	Riesling	-18.3	08-Nov	-22.2	22-Nov	-24.3	06-Dec	-24.4	20-Dec	-23.9	03-Jan	-23.4	17-Jan	-24.6	31-Jan	-26.1	14-Feb	-24.3	28-Feb				
Black Sage	Riesling	-19.1	08-Nov	-23.4	22-Nov	-26.3	06-Dec	-26.8	20-Dec	-27.5	03-Jan	-23.6	17-Jan	-26.1	31-Jan	-26.8	14-Feb	-24.1	28-Feb				
West Kelowna	Riesling	-16.5	08-Nov	-15.9	22-Nov	-23.0	06-Dec	-24.6	20-Dec	-25.8	03-Jan	-25.2	17-Jan	-23.9	31-Jan	-23.9	14-Feb	-23.2	28-Feb				
Oliver east	Riesling	-17.8	08-Nov	-21.6	22-Nov	-23.5	06-Dec	-23.8	20-Dec	-25.3	03-Jan	-24.5	17-Jan	-23.6	31-Jan	-25.1	14-Feb	-23.9	28-Feb				
Oliver east	Sauvignon blanc	-17.9	08-Nov	-21.5	22-Nov	-23.5	06-Dec	-23.5	20-Dec	-25.3	03-Jan	-24.0	17-Jan	-21.8	31-Jan	-23.1	14-Feb	-22.2	28-Feb				
Oliver east	Sauvignon blanc	-17.5	08-Nov	-20.6	22-Nov	-23.0	06-Dec	-24.2	20-Dec	-26.7	03-Jan	-26.6	17-Jan	-22.9	31-Jan	-22.1	14-Feb	-21.9	28-Feb				
Osoyoos, southeast	Shiraz	-13.8	03-Nov	-18.0	17-Nov	-20.4	01-Dec	-22.6	15-Dec			-25.6	12-Jan			-23.4	11-Feb	-22.7	02-Mar				
Osoyoos, southeast	Shiraz	-14.0	03-Nov	-16.6	17-Nov	-20.3	01-Dec	-22.3	15-Dec				12-Jan			-24.0	11-Feb	-21.9	02-Mar				
Osoyoos, southeast	Shiraz	-16.7	08-Nov	-20.5	22-Nov	-23.2	06-Dec	-24.3	20-Dec	-26.0	03-Jan	-23.1	17-Jan	-23.9	31-Jan	-24.4	14-Feb	-23.6	28-Feb				
Black Sage	Shiraz	-16.1	08-Nov	-20.4	22-Nov	-23.7	06-Dec	-24.6	20-Dec	-25.0	03-Jan	-23.6	17-Jan	-23.8	31-Jan	-24.3	14-Feb	-22.9	28-Feb				
Osoyoos northeast	Shiraz	-14.5	08-Nov	-18.2	22-Nov	-21.1	06-Dec	-23.1	20-Dec	-24.0	03-Jan	-24.3	17-Jan	-22.3	31-Jan	-22.9	14-Feb	-22.1	28-Feb				
Osoyoos northeast	Shiraz	-16.0	08-Nov	-19.3	22-Nov	-21.6	06-Dec	-22.4	20-Dec	-24.2	03-Jan	-24.1	17-Jan	-22.5	31-Jan	-23.2	14-Feb	-21.8	28-Feb				
Osoyoos west	Viognier	-13.7	03-Nov	-20.0	17-Nov	-22.5	01-Dec	-27.1	15-Dec				12-Jan			-23.1	11-Feb	-23.7	02-Mar				
Average Bud Hardiness (all sites, all varieties)		-16.4		-20.0		-23.0		-24.2		-25.2		-24.8		-23.6		-24.1		-22.9					

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