

Grapevine Bud Hardiness in the Okanagan Valley, BC, 2014-2015. Carl Bogdanoff, Agriculture and Agri-Food Canada, Summlerland, BC.

Location	Variety	Avg LTE	sample date dd-mm	Avg LTE	sample date dd-mm	Avg LTE	sample date dd-mm	Avg LTE	sample date dd-mm	Avg LTE	sample date dd-mm	Avg LTE	sample date dd-mm	Avg LTE	sample date dd-mm	Avg LTE	sample date dd-mm	Avg LTE	sample date dd-mm	Avg LTE	sample date dd-mm	Avg LTE	sample date dd-mm
Osoyoos, southeast	Cabernet Franc			-14.2	6-Nov	-21.0	20-Nov	-23.5	4-Dec	-23.1	18-Dec			-23.5	15-Jan			-19.3	12-Feb	-20.3	5-Mar	-11.2	19-Mar
Black Sage	Cabernet Franc	-12.2	28-Oct	-16.6	12-Nov	-18.9	25-Nov	-20.4	9-Dec	-21.9	23-Dec	-22.8	6-Jan	-22.6	20-Jan	-21.9	3-Feb	-17.7	17-Feb	-18.0	3-Mar	-10.3	17-Mar
Oliver east	Cabernet Franc	-11.2	28-Oct	-17.6	12-Nov	-18.5	25-Nov	-20.8	9-Dec	-20.9	23-Dec	-22.7	6-Jan	-21.0	20-Jan	-22.3	3-Feb	-17.8	17-Feb	-19.5	3-Mar	-14.4	17-Mar
Osoyoos, southeast	Cabernet Sauvignon	-12.2	28-Oct	-15.7	12-Nov	-19.3	25-Nov	-20.2	9-Dec	-21.3	23-Dec	-22.7	6-Jan	-22.2	20-Jan	-21.5	3-Feb	-17.6	17-Feb	-19.4	3-Mar	-13.6	17-Mar
Black Sage	Cabernet Sauvignon	-12.3	28-Oct	-16.2	12-Nov	-19.2	25-Nov	-19.2	9-Dec	-20.9	23-Dec	-21.7	6-Jan	-24.4	20-Jan	-21.1	3-Feb	-17.0	17-Feb	-19.4	3-Mar	-16.7	17-Mar
Osoyoos northeast	Cabernet Sauvignon	-11.8	28-Oct	-15.0	12-Nov	-19.5	25-Nov	-20.9	9-Dec	-20.2	23-Dec	-21.8	6-Jan	-22.3	20-Jan	-21.7	3-Feb	-19.2	17-Feb	-19.7	3-Mar	-14.1	17-Mar
Osoyoos northeast	Cabernet Sauvignon	-11.6	28-Oct	-16.8	12-Nov	-18.9	25-Nov	-21.2	9-Dec	-21.6	23-Dec	-19.9	6-Jan	-22.9	20-Jan	-21.6	3-Feb	-17.9	17-Feb	-18.1	3-Mar	-14.6	17-Mar
Osoyoos, southeast	Chardonnay	-14.0	28-Oct	-17.6	6-Nov	-23.0	20-Nov	-23.6	4-Dec	-23.9	18-Dec			-22.0	15-Jan			-20.4	12-Feb	-20.2	5-Mar	-12.0	19-Mar
Black Sage	Chardonnay	-12.6	28-Oct	-13.9	6-Nov	-20.3	20-Nov	-23.2	4-Dec	-22.2	18-Dec			-22.8	15-Jan			-18.2	12-Feb	-19.1	5-Mar	-11.5	19-Mar
Naramata bench	Chardonnay	-14.4	28-Oct	-20.2	12-Nov	-20.9	25-Nov	-22.1	9-Dec	-22.6	23-Dec			-21.3	20-Jan	-22.0	3-Feb	-19.1	17-Feb	-17.4	3-Mar	-13.1	17-Mar
OK Falls, east	Chardonnay	-13.9	28-Oct	-19.8	12-Nov	-20.5	25-Nov	-21.6	9-Dec	-21.8	23-Dec	-22.9	6-Jan	-20.5	20-Jan	-21.6	3-Feb	-17.9	17-Feb	-18.1	3-Mar	-10.4	17-Mar
Oliver east	Chardonnay	-13.0	28-Oct	-19.8	12-Nov	-21.8	25-Nov	-22.0	9-Dec	-22.7	23-Dec	-24.3	6-Jan	-24.1	20-Jan	-22.9	3-Feb	-16.9	17-Feb	-19.3	3-Mar	-10.8	17-Mar
Kelowna	Gewurztraminer			-16.1	12-Nov	-18.0	25-Nov	-20.3	9-Dec	-21.2	23-Dec	-22.5	6-Jan	-21.9	20-Jan	-21.1	3-Feb	-18.1	17-Feb	-18.4	3-Mar	-11.3	17-Mar
OK Falls, west	Gewurztraminer	-12.8	28-Oct	-19.7	12-Nov	-21.5	25-Nov	-22.6	9-Dec					-21.7	20-Jan	-21.3	3-Feb	-16.8	17-Feb	-18.2	3-Mar	-11.0	17-Mar
Oliver east	Gewurztraminer	-12.9	28-Oct	-19.6	12-Nov	-20.8	25-Nov	-21.6	9-Dec			-23.0	6-Jan	-21.8	20-Jan	-22.7	3-Feb	-20.4	17-Feb	-19.1	3-Mar	-14.4	17-Mar
Osoyoos west	Merlot			-14.4	6-Nov	-20.1	20-Nov	-22.5	4-Dec	-21.5	18-Dec			-23.7	15-Jan			-19.5	12-Feb	-19.3	5-Mar	-12.5	19-Mar
Oliver, west	Merlot	-11.9	28-Oct	-14.8	12-Nov	-16.5	25-Nov	-20.0	9-Dec	-19.9	23-Dec	-21.9	6-Jan	-22.9	20-Jan			-19.3	17-Feb	-18.3	3-Mar	-12.7	17-Mar
Osoyoos northeast	Merlot	-13.5	28-Oct	-18.4	12-Nov	-20.7	25-Nov	-21.8	9-Dec	-21.0	23-Dec	-22.6	6-Jan			-21.9	3-Feb	-19.6	17-Feb	-18.7	3-Mar	-13.1	17-Mar
Black Sage	Merlot	-12.4	28-Oct	-16.9	12-Nov	-19.7	25-Nov	-19.5	9-Dec	-21.6	23-Dec			-23.9	20-Jan	-22.1	3-Feb	-19.4	17-Feb	-18.5	3-Mar	-11.9	17-Mar
Black Sage	Pinot blanc	-14.2	28-Oct	-17.7	12-Nov	-18.6	25-Nov	-20.4	9-Dec	-20.2	23-Dec	-22.3	6-Jan	-23.8	20-Jan	-20.9	3-Feb	-17.6	17-Feb	-17.9	3-Mar	-12.9	17-Mar
Oliver east	Pinot blanc			-20.4	12-Nov	-22.6	25-Nov	-22.7	9-Dec			-23.8	6-Jan	-23.2	20-Jan	-23.3	3-Feb	-19.0	17-Feb	-21.0	3-Mar	-14.5	17-Mar
Oliver east	Pinot gris	-14.4	28-Oct	-15.8	6-Nov	-22.7	20-Nov	-22.5	4-Dec	-22.6	18-Dec			-20.7	15-Jan			-21.0	12-Feb	-22.0	5-Mar	-15.2	19-Mar
Black Sage	Pinot gris	-13.7	28-Oct	-18.9	12-Nov	-19.4	25-Nov	-21.7	9-Dec	-22.4	23-Dec	-23.8	6-Jan	-20.0	20-Jan	-22.4	3-Feb	-17.8	17-Feb	-19.6	3-Mar	-13.0	17-Mar
Naramata bench	Pinot gris	-13.2	28-Oct	-19.1	12-Nov	-19.8	25-Nov	-20.4	9-Dec	-21.8	23-Dec			-22.3	20-Jan	-21.0	3-Feb	-16.6	17-Feb	-14.9	3-Mar	-10.6	17-Mar
OK Falls, east	Pinot gris	-14.0	28-Oct	-21.5	12-Nov	-21.8	25-Nov	-22.5	9-Dec	-23.3	23-Dec	-23.7	6-Jan	-21.4	20-Jan	-22.9	3-Feb	-20.4	17-Feb	-20.4	3-Mar	-14.3	17-Mar
Oliver east	Pinot gris	-14.2	28-Oct	-19.7	12-Nov	-21.1	25-Nov	-22.9	9-Dec	-22.7	23-Dec	-23.9	6-Jan	-24.1	20-Jan	-23.0	3-Feb	-18.6	17-Feb	-19.6	3-Mar	-15.3	17-Mar
Naramata bench	Pinot noir			-18.6	12-Nov	-21.8	25-Nov	-22.2	9-Dec	-23.6	23-Dec			-22.1	20-Jan	-21.1	3-Feb	-15.7	17-Feb	-14.8	3-Mar	-10.2	17-Mar
Black Sage	Pinot noir	-14.3	28-Oct	-20.1	12-Nov	-20.8	25-Nov	-23.1	9-Dec	-23.8	23-Dec	-23.6	6-Jan	-23.5	20-Jan	-23.9	3-Feb	-21.5	17-Feb	-20.7	3-Mar	-15.2	17-Mar
Kelowna	Pinot noir	-14.5	28-Oct	-19.7	12-Nov	-21.6	25-Nov	-22.5	9-Dec	-22.5	23-Dec	-22.8	6-Jan	-22.4	20-Jan	-21.5	3-Feb	-17.7	17-Feb	-18.5	3-Mar	-11.3	17-Mar
Osoyoos northeast	Pinot noir	-13.3	28-Oct	-17.5	12-Nov	-20.9	25-Nov	-21.5	9-Dec	-22.7	23-Dec			-23.3	20-Jan	-22.4	3-Feb	-19.7	17-Feb	-19.5	3-Mar	-13.2	17-Mar
Naramata bench	Riesling			-20.2	12-Nov	-21.4	25-Nov	-23.5	9-Dec	-23.2	23-Dec			-24.1	20-Jan	-23.2	3-Feb	-19.0	17-Feb	-17.9	3-Mar	-11.4	17-Mar
Black Sage	Riesling			-17.6	12-Nov	-21.3	25-Nov	-22.1	9-Dec	-23.2	23-Dec	-24.0	6-Jan	-22.5	20-Jan	-22.9	3-Feb	-20.2	17-Feb	-20.4	3-Mar	-15.4	17-Mar
Black Sage	Riesling	-13.7	28-Oct	-21.6	12-Nov	-21.7	25-Nov	-23.5	9-Dec	-23.7	23-Dec	-24.0	6-Jan	-22.9	20-Jan	-23.6	3-Feb	-21.5	17-Feb	-21.6	3-Mar	-14.9	17-Mar
West Kelowna	Riesling	-13.3	28-Oct	-19.9	12-Nov	-21.9	25-Nov	-22.2	9-Dec	-22.0	23-Dec	-22.9	6-Jan	-23.6	20-Jan	-23.0	3-Feb	-20.9	17-Feb	-21.0	3-Mar	-13.5	17-Mar
Oliver east	Riesling	-12.8	28-Oct	-19.8	12-Nov	-19.7	25-Nov	-22.3	9-Dec			-24.2	6-Jan	-23.9	20-Jan	-22.7	3-Feb	-20.4	17-Feb	-20.8	3-Mar	-14.2	17-Mar
Oliver east	Sauvignon blanc	-12.3	28-Oct	-18.0	12-Nov	-20.8	25-Nov	-21.7	9-Dec	-21.6	23-Dec	-23.0	6-Jan	-22.1	20-Jan	-21.8	3-Feb	-19.8	17-Feb	-19.6	3-Mar	-13.6	17-Mar
Oliver east	Sauvignon blanc	-13.2	28-Oct	-18.3	12-Nov	-20.1	25-Nov	-21.8	9-Dec	-21.8	23-Dec	-23.3	6-Jan	-22.9	20-Jan	-22.4	3-Feb	-19.0	17-Feb	-21.1	3-Mar	-14.7	17-Mar
Osoyoos, southeast	Shiraz			-13.1	6-Nov	-19.2	20-Nov	-19.9	4-Dec	-20.8	18-Dec			-22.0	15-Jan			-19.0	12-Feb	-19.8	5-Mar	-10.5	19-Mar
Osoyoos, southeast	Shiraz			-12.8	6-Nov	-18.1	20-Nov	-20.2	4-Dec	-20.0	18-Dec			-22.0	15-Jan			-18.0	12-Feb	-19.5	5-Mar	-11.1	19-Mar
Osoyoos, southeast	Shiraz	-14.1	28-Oct	-18.9	12-Nov	-20.9	25-Nov	-20.3	9-Dec	-22.0	23-Dec	-23.7	6-Jan	-21.9	20-Jan	-23.1	3-Feb	-19.2	17-Feb	-18.8	3-Mar	-14.0	17-Mar
Black Sage	Shiraz	-11.4	28-Oct	-17.1	12-Nov	-19.2	25-Nov	-21.2	9-Dec	-21.0	23-Dec	-20.5	6-Jan	-21.2	20-Jan	-22.2	3-Feb	-18.7	17-Feb	-18.9	3-Mar	-13.1	17-Mar
Osoyoos northeast	Shiraz	-12.2	28-Oct	-16.1	12-Nov	-17.4	25-Nov	-19.3	9-Dec	-19.0	23-Dec			-22.3	20-Jan	-20.7	3-Feb	-17.4	17-Feb	-16.7	3-Mar	-11.6	17-Mar
Osoyoos northeast	Shiraz	-12.3	28-Oct	-16.5	12-Nov	-18.4	25-Nov	-20.0	9-Dec	-19.8	23-Dec	-21.1	6-Jan	-23.0	20-Jan	-20.8	3-Feb	-17.9	17-Feb	-19.1	3-Mar	-12.6	17-Mar
Osoyoos west	Viognier			-15.0	6-Nov	-20.0	20-Nov	-22.0	4-Dec	-22.3	18-Dec			-21.8	15-Jan			-20.7	12-Feb	-21.0	5-Mar	-12.5	19-Mar
Bud Hardiness (all sites, all varieties)		-13.1		-17.7		-20.2		-21.6		-21.9		-22.8		-22.5		-22.1		-18.8		-19.2		-12.9	

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