

Grapevine Bud Hardiness in the Okanagan and Similkameen Valleys, BC, 2024-2025. Steve Marsh, Agriculture and Agri-Food Canada, Summerland, BC.

Variety	Location	sample day	Avg LTE10 (Nov 12,14)	Avg LTE10 (Nov 26,28)	Avg LTE10 (Dec 10,11)	Avg LTE10 (Jan 7,9)	Avg LTE10 (Jan 21,23)	Avg LTE10 (Feb 4,6)	Avg LTE10 (Feb 18,20)	Avg LTE10 (Mar 4,6)	Avg LTE10 (Mar 18,20)
Cabernet Franc	Similkameen	Thurs	<b>-16.0</b>								
Chardonnay	East Kelowna	Tues	<b>-13.7</b>								
Chardonnay	Similkameen	Thurs	<b>-18.3</b>								
Marquette	Similkameen	Thurs	<b>-19.1</b>								
Merlot	Summerland	Thurs	<b>-15.3</b>								
Pinot gris	East Kelowna	Tues	<b>-12.1</b>								
Pinot gris	Similkameen	Thurs	<b>-15.8</b>								
Pinot noir	East Kelowna	Tues	<b>-18.4</b>								
Pinot noir	East Kelowna	Tues	<b>-16.6</b>								
Riesling	East Kelowna	Tues	<b>-16.9</b>								
Riesling	East Kelowna	Tues	<b>-18.3</b>								
Syrah	Similkameen	Thurs	<b>-12.5</b>								
Viognier	Lake Country	Tues	<b>-12.3</b>								

LTE: Lethal temperature exotherm (°C). AVG LTE10: Average lethal temperature exotherm at 10% bud mortality for buds collected from 3 vines at selected sites in the Okanagan and Similkameen Valleys.



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Variety	Location	sample day	Avg LTE50 (Nov 12,14)	Avg LTE50 (Nov 26,28)	Avg LTE50 (Dec 10,11)	Avg LTE50 (Jan 7,9)	Avg LTE50 (Jan 21,23)	Avg LTE50 (Feb 4,6)	Avg LTE50 (Feb 18,20)	Avg LTE50 (Mar 4,6)	Avg LTE50 (Mar 18,20)
Cabernet Franc	Similkameen	Thurs	<b>-18.0</b>								
Chardonnay	East Kelowna	Tues	<b>-16.7</b>								
Chardonnay	Similkameen	Thurs	<b>-19.6</b>								
Marquette	Similkameen	Thurs	<b>-21.4</b>								
Merlot	Summerland	Thurs	<b>-17.0</b>								
Pinot gris	East Kelowna	Tues	<b>-14.4</b>								
Pinot gris	Similkameen	Thurs	<b>-18.8</b>								
Pinot noir	East Kelowna	Tues	<b>-19.3</b>								
Pinot noir	East Kelowna	Tues	<b>-17.8</b>								
Riesling	East Kelowna	Tues	<b>-19.0</b>								
Riesling	East Kelowna	Tues	<b>-19.7</b>								
Syrah	Similkameen	Thurs	<b>-14.5</b>								
Viognier	Lake Country	Tues	<b>-14.8</b>								

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 and Similkameen Valleys.



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Variety	Location	sample day	Avg LTE90 (Nov 12,14)	Avg LTE90 (Nov 26,28)	Avg LTE90 (Dec 10,11)	Avg LTE90 (Jan 7,9)	Avg LTE90 (Jan 21,23)	Avg LTE90 (Feb 4,6)	Avg LTE90 (Feb 18,20)	Avg LTE90 (Mar 4,6)	Avg LTE90 (Mar 18,20)
Cabernet Franc	Similkameen	Thurs	<b>-19.3</b>								
Chardonnay	East Kelowna	Tues	<b>-19.5</b>								
Chardonnay	Similkameen	Thurs	<b>-20.5</b>								
Marquette	Similkameen	Thurs	<b>-23.4</b>								
Merlot	Summerland	Thurs	<b>-19.0</b>								
Pinot gris	East Kelowna	Tues	<b>-16.7</b>								
Pinot gris	Similkameen	Thurs	<b>-20.8</b>								
Pinot noir	East Kelowna	Tues	<b>-21.2</b>								
Pinot noir	East Kelowna	Tues	<b>-18.7</b>								
Riesling	East Kelowna	Tues	<b>-21.0</b>								
Riesling	East Kelowna	Tues	<b>-21.5</b>								
Syrah	Similkameen	Thurs	<b>-16.8</b>								
Viognier	Lake Country	Tues	<b>-18.0</b>								

LTE: Lethal temperature exotherm (°C). AVG LTE90: Average lethal temperature exotherm at 90% bud mortality for buds collected from 3 vines at selected sites in the Okanagan and Similkameen Valleys.

