

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 | Ave LTE 10 (Nov 12,14) | Avg LTE 10 (Nov 20) | Avg LTE 10 (Dec 3,4) | Avg LTE 10 (Dec 17,18) | Avg LTE 10 (Jan 14,15) | Avg LTE 10 (Jan 28,29) | Avg LTE 10 (Feb 11,12) | Avg LTE 10 (Feb 25,26) | Avg LTE 10 (Mar 11,12) | Avg LTE 10 (Mar 25,26) |
|--------------------|---------------|------------|------------------------|---------------------|----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Cabernet Franc | Black Sage | Wed | . | -20.4 | -21.3 | -21.0 | -21.6 | | | | | |
| Cabernet Franc | East Kelowna | Tues | -12.1 | . | -13.7 | -15.3 | . | | | | | |
| Cabernet Franc | Similkameen | Tues | -16.0 | . | -20.3 | -20.7 | -18.6 | | | | | |
| Cabernet Sauvignon | Black Sage | Wed | . | -17.9 | -20.9 | -20.3 | -21.2 | | | | | |
| Chardonnay | East Kelowna | Tues | -13.7 | . | -20.4 | -19.7 | -20.2 | | | | | |
| Chardonnay | Oliver | Wed | . | -19.0 | -18.9 | -21.3 | -22.1 | | | | | |
| Chardonnay | Similkameen | Tues | -18.3 | . | -19.4 | -20.6 | -21.5 | | | | | |
| Chardonnay | Summerland | Wed | . | . | -21.1 | -21.3 | -23.3 | | | | | |
| Chenin blanc | Peachland | Tues | . | . | -17.8 | -18.5 | -19.7 | | | | | |
| Gamay noir | South Kelowna | Tues | . | . | -19.3 | -19.4 | -20.6 | | | | | |
| Gamay noir | Summerland | Wed | . | . | -17.6 | -20.0 | -21.2 | | | | | |
| Gewurztraminer | Kaleden | Wed | . | . | -20.0 | -20.8 | -20.1 | | | | | |
| Marachel Foch | East Kelowna | Tues | . | . | -22.4 | -20.5 | -20.4 | | | | | |
| Marquette | Peachland | Tues | . | . | -19.9 | -20.7 | -18.2 | | | | | |
| Marquette | Similkameen | Tues | -19.1 | . | -23.6 | -23.8 | -24.6 | | | | | |
| Merlot | Black Sage | Wed | . | -17.0 | -21.4 | -20.1 | -18.3 | | | | | |
| Merlot | Summerland | Tues | -15.3 | . | -20.1 | -22.2 | -20.4 | | | | | |
| Petit Meunier | South Kelowna | Tues | . | . | -20.1 | -19.5 | -19.6 | | | | | |
| Pinot gris | Kaleden | Wed | . | . | -20.3 | -21.4 | -21.0 | | | | | |
| Pinot gris | Oliver | Wed | . | -18.7 | -22.5 | -22.2 | -21.0 | | | | | |
| Pinot gris | Similkameen | Tues | -15.8 | . | -21.7 | -19.6 | -21.3 | | | | | |
| Pinot noir | East Kelowna | Tues | -18.4 | . | -19.3 | -20.0 | -21.8 | | | | | |
| Pinot noir | East Kelowna | Tues | -16.6 | . | -18.7 | -20.2 | -21.3 | | | | | |
| Pinot noir | Summerland | Wed | . | . | -19.2 | -19.9 | -20.9 | | | | | |
| Riesling | Black Sage | Wed | . | -18.7 | -23.3 | -22.9 | -22.4 | | | | | |
| Riesling | East Kelowna | Tues | -16.9 | . | -21.4 | -19.3 | -22.6 | | | | | |
| Riesling | East Kelowna | Tues | -18.3 | . | -21.5 | -22.3 | -19.5 | | | | | |
| Riesling | Oliver | Wed | . | -21.1 | -21.3 | -23.4 | -23.5 | | | | | |
| Sauvignon blanc | Black Sage | Wed | . | -18.6 | -20.3 | -21.0 | -21.2 | | | | | |
| Sauvignon blanc | Oliver | Wed | . | -19.9 | -20.4 | -20.7 | -22.4 | | | | | |
| Syrah | Similkameen | Tues | -12.5 | . | -16.4 | -17.7 | -17.6 | | | | | |
| Viognier | Black Sage | Wed | . | -18.6 | -21.8 | -19.3 | -21.1 | | | | | |
| Viognier | Black Sage | Wed | . | -15.6 | -21.4 | -21.0 | -20.9 | | | | | |
| Viognier | Lake Country | Tues | -12.3 | . | . | . | . | | | | | |

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.

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 LTE50 (Nov 12,14) | Avg LTE50 (Nov 20) | Avg LTE50 (Dec 3,4) | Avg LTE50 (Dec 17,18) | Avg LTE50 (Jan 14,15) | Avg LTE50 (Jan 28,29) | Avg LTE50 (Feb 11,12) | Avg LTE50 (Feb 25,26) | Avg LTE50 (Mar 11,12) | Avg LTE50 (Mar 25,26) |
|--------------------|---------------|------------|-----------------------|--------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Cabernet Franc | Black Sage | Wed | . | -22.3 | -23.4 | -22.1 | -23.2 | | | | | |
| Cabernet Franc | East Kelowna | Tues | -14.4 | . | -18.3 | -17.8 | . | | | | | |
| Cabernet Franc | Similkameen | Tues | -18.0 | . | -21.9 | -22.8 | -21.6 | | | | | |
| Cabernet Sauvignon | Black Sage | Wed | . | -20.1 | -22.5 | -22.4 | -22.8 | | | | | |
| Chardonnay | East Kelowna | Tues | -16.7 | . | -21.6 | -21.7 | -22.1 | | | | | |
| Chardonnay | Oliver | Wed | . | -21.1 | -22.7 | -23.2 | -23.2 | | | | | |
| Chardonnay | Similkameen | Tues | -19.6 | . | -21.4 | -22.2 | -22.2 | | | | | |
| Chardonnay | Summerland | Wed | . | . | -22.4 | -23.1 | -24.2 | | | | | |
| Chenin blanc | Peachland | Tues | . | . | -19.4 | -21.1 | -20.7 | | | | | |
| Gamay noir | South Kelowna | Tues | . | . | -20.9 | -21.4 | -22.7 | | | | | |
| Gamay noir | Summerland | Wed | . | . | -20.7 | -21.8 | -23.0 | | | | | |
| Gewurztraminer | Kaleden | Wed | . | . | -21.3 | -21.6 | -21.6 | | | | | |
| Marachel Foch | East Kelowna | Tues | . | . | -23.6 | -23.0 | -23.1 | | | | | |
| Marquette | Peachland | Tues | . | . | -23.9 | -23.7 | -22.5 | | | | | |
| Marquette | Similkameen | Tues | -21.4 | . | -24.8 | -24.7 | -26.2 | | | | | |
| Merlot | Black Sage | Wed | . | -19.5 | -22.4 | -22.6 | -22.2 | | | | | |
| Merlot | Summerland | Tues | -17.0 | . | -21.5 | -22.8 | -22.3 | | | | | |
| Petit Meunier | South Kelowna | Tues | . | . | -20.9 | -20.9 | -21.1 | | | | | |
| Pinot gris | Kaleden | Wed | . | . | -22.1 | -22.7 | -22.7 | | | | | |
| Pinot gris | Oliver | Wed | . | -21.7 | -23.5 | -23.2 | -24.1 | | | | | |
| Pinot gris | Similkameen | Tues | -18.8 | . | -22.9 | -22.5 | -23.2 | | | | | |
| Pinot noir | East Kelowna | Tues | -19.3 | . | -22.2 | -21.0 | -23.3 | | | | | |
| Pinot noir | East Kelowna | Tues | -17.8 | . | -21.1 | -21.6 | -22.6 | | | | | |
| Pinot noir | Summerland | Wed | . | . | -21.4 | -21.2 | -22.5 | | | | | |
| Riesling | Black Sage | Wed | . | -21.8 | -24.2 | -24.3 | -25.3 | | | | | |
| Riesling | East Kelowna | Tues | -19.0 | . | -22.4 | -21.2 | -23.9 | | | | | |
| Riesling | East Kelowna | Tues | -19.7 | . | -22.3 | -23.9 | -21.9 | | | | | |
| Riesling | Oliver | Wed | . | -22.7 | -24.3 | -24.7 | -25.0 | | | | | |
| Sauvignon blanc | Black Sage | Wed | . | -20.0 | -21.9 | -22.3 | -22.9 | | | | | |
| Sauvignon blanc | Oliver | Wed | . | -21.4 | -22.5 | -22.5 | -23.4 | | | | | |
| Syrah | Similkameen | Tues | -14.5 | . | -19.1 | -20.0 | -20.2 | | | | | |
| Viognier | Black Sage | Wed | . | -21.6 | -22.8 | -21.9 | -23.2 | | | | | |
| Viognier | Black Sage | Wed | . | -20.2 | -22.3 | -22.2 | -24.0 | | | | | |
| Viognier | Lake Country | Tues | -14.8 | . | . | . | . | | | | | |

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.

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 LTE90 (Nov 12,14) | Avg LTE90 (Nov 20) | Avg LTE90 (Dec 3,4) | Avg LTE90 (Dec 17,18) | Avg LTE90 (Jan 14,15) | Avg LTE90 (Jan 28,29) | Avg LTE90 (Feb 11,12) | Avg LTE90 (Feb 25,26) | Avg LTE90 (Mar 11,12) | Avg LTE90 (Mar 25,26) |
|--------------------|---------------|------------|-----------------------|--------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Cabernet Franc | Black Sage | Wed | . | -24.3 | -25.4 | -23.0 | -25.1 | | | | | |
| Cabernet Franc | East Kelowna | Tues | -16.7 | . | -20.9 | -19.7 | . | | | | | |
| Cabernet Franc | Similkameen | Tues | -19.3 | . | -23.3 | -24.5 | -24.0 | | | | | |
| Cabernet Sauvignon | Black Sage | Wed | . | -21.4 | -24.2 | -23.6 | -24.4 | | | | | |
| Chardonnay | East Kelowna | Tues | -19.5 | . | -22.9 | -23.8 | -23.9 | | | | | |
| Chardonnay | Oliver | Wed | . | -22.5 | -24.4 | -24.5 | -24.8 | | | | | |
| Chardonnay | Similkameen | Tues | -20.5 | . | -23.1 | -23.4 | -22.8 | | | | | |
| Chardonnay | Summerland | Wed | . | . | -24.0 | -23.8 | -25.6 | | | | | |
| Chenin blanc | Peachland | Tues | . | . | -20.3 | -23.4 | -21.6 | | | | | |
| Gamay noir | South Kelowna | Tues | . | . | -22.6 | -23.5 | -24.1 | | | | | |
| Gamay noir | Summerland | Wed | . | . | -23.2 | -24.0 | -24.0 | | | | | |
| Gewurztraminer | Kaleden | Wed | . | . | -22.4 | -22.5 | -22.4 | | | | | |
| Marachel Foch | East Kelowna | Tues | . | . | -25.0 | -25.1 | -27.3 | | | | | |
| Marquette | Peachland | Tues | . | . | -27.2 | -25.9 | -24.8 | | | | | |
| Marquette | Similkameen | Tues | -23.4 | . | -25.9 | -26.3 | -27.4 | | | | | |
| Merlot | Black Sage | Wed | . | -21.4 | -23.5 | -24.8 | -24.2 | | | | | |
| Merlot | Summerland | Tues | -19.0 | . | -23.1 | -24.0 | -23.5 | | | | | |
| Petit Meunier | South Kelowna | Tues | . | . | -22.0 | -22.5 | -22.3 | | | | | |
| Pinot gris | Kaleden | Wed | . | . | -23.3 | -23.8 | -24.2 | | | | | |
| Pinot gris | Oliver | Wed | . | -22.8 | -24.9 | -24.1 | -26.3 | | | | | |
| Pinot gris | Similkameen | Tues | -20.8 | . | -24.5 | -25.1 | -24.7 | | | | | |
| Pinot noir | East Kelowna | Tues | -21.2 | . | -24.3 | -22.2 | -24.5 | | | | | |
| Pinot noir | East Kelowna | Tues | -18.7 | . | -22.3 | -23.4 | -23.5 | | | | | |
| Pinot noir | Summerland | Wed | . | . | -22.3 | -22.6 | -24.2 | | | | | |
| Riesling | Black Sage | Wed | . | -23.7 | -25.3 | -25.5 | -26.7 | | | | | |
| Riesling | East Kelowna | Tues | -21.0 | . | -24.6 | -23.0 | -25.1 | | | | | |
| Riesling | East Kelowna | Tues | -21.5 | . | -23.2 | -25.2 | -24.0 | | | | | |
| Riesling | Oliver | Wed | . | -24.4 | -25.7 | -26.2 | -26.7 | | | | | |
| Sauvignon blanc | Black Sage | Wed | . | -21.5 | -23.1 | -23.7 | -24.5 | | | | | |
| Sauvignon blanc | Oliver | Wed | . | -22.8 | -24.3 | -23.8 | -24.8 | | | | | |
| Syrah | Similkameen | Tues | -16.8 | . | -21.3 | -21.0 | -22.7 | | | | | |
| Viognier | Black Sage | Wed | . | -23.3 | -24.2 | -23.5 | -25.3 | | | | | |
| Viognier | Black Sage | Wed | . | -23.0 | -23.0 | -23.8 | -26.2 | | | | | |
| Viognier | Lake Country | Tues | -18.0 | . | . | . | . | | | | | |

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.