

Grapevine Bud Hardiness in the Okanagan Valley, BC, 2023-2024. Steve Marsh, Agriculture and Agri-Food Canada, Summerland, BC.

| Variety | Location | sample day | Avg LTE50 (Oct 31, Nov 1) | Avg LTE50 (Nov 7,8) | Avg LTE50 (Nov 21,22) | Avg LTE50 (Dec 5,6) | Avg LTE50 (Dec 18,19) | Avg LTE50 (Jan 2,3) | Avg LTE50 (Jan 17,18) | Avg LTE50 (Jan 30,31) | Avg LTE50 (Feb 13,14) | Avg LTE50 (Feb 27,28) | Avg LTE50 (Mar 12,13) | Avg LTE50 (Mar 26,27) | Avg LTE50 (Apr 2,3) |
|---------------------|--------------------|------------|---------------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------|
| Cabernet Franc | Oliver east | Tues | | -18.3 | -21.4 | -22.5 | -22.7 | -22.7 | . | | | | | | |
| Cabernet Franc | Black Sage | Wed | -17.1 | -17.1 | -20.2 | -21.7 | -21.8 | -21.7 | . | | | | | | |
| Cabernet Sauv | Osoyoos northeast | Tues | -18.1 | -17.7 | -21.2 | -22.3 | -22.6 | -23.1 | . | | | | | | |
| Cabernet Sauv | Osoyoos northeast | Tues | -16.6 | -17.7 | -21.2 | -21.1 | -23.0 | -22.5 | . | | | | | | |
| Cabernet Sauv (2yr) | Black Sage | Tues | -19.0 | -18.6 | -21.4 | -22.0 | -22.2 | -22.8 | . | | | | | | |
| Cabernet Sauvignon | Black Sage | Wed | -18.0 | -19.0 | -21.8 | -22.0 | -22.2 | -21.8 | . | | | | | | |
| Cabernet Sauvignon | Osoyoos, southeast | Wed | -17.3 | -18.5 | -21.7 | -23.1 | -22.0 | -22.9 | . | | | | | | |
| Chardonnay | OK Falls, east | Tues | -20.5 | -20.2 | -22.8 | -23.5 | -23.6 | -23.6 | . | | | | | | |
| Chardonnay | Naramata Bench | Tues | -18.5 | -19.0 | -21.2 | -22.3 | -22.4 | -23.1 | . | | | | | | |
| Chardonnay | Black Sage | Wed | -19.2 | -19.7 | -21.5 | -22.7 | -22.3 | -22.7 | . | | | | | | |
| Chardonnay | Osoyoos, southeast | Wed | -21.5 | -21.7 | -23.3 | -24.2 | -23.7 | -24.2 | . | | | | | | |
| Chardonnay | Oliver, south | Wed | -20.5 | -20.8 | -22.2 | -22.6 | -23.0 | -22.9 | . | | | | | | |
| Chardonnay | Oliver, south | Wed | -19.3 | -19.9 | -22.2 | -23.2 | -22.8 | -23.6 | . | | | | | | |
| Gewurztraminer | OK Falls, west | Tues | -18.9 | -19.1 | -21.6 | -21.9 | -22.3 | -22.3 | . | | | | | | |
| Malbec | Osoyoos, southeast | Wed | -17.3 | -18.6 | -22.6 | -22.6 | -22.8 | -22.3 | . | | | | | | |
| Merlot | Osoyoos northeast | Tues | -17.8 | -18.2 | -21.4 | -22.0 | -22.7 | -22.2 | . | | | | | | |
| Merlot | Naramata Bench | Tues | -15.8 | . | . | . | . | . | . | | | | | | |
| Merlot | Osoyoos, southeast | Wed | -18.2 | -18.4 | -20.9 | -21.6 | -22.1 | -20.3 | . | | | | | | |
| Pinot gris | Oliver east | Tues | -19.0 | -21.1 | -23.0 | -23.5 | -23.8 | -23.3 | . | | | | | | |
| Pinot gris | OK Falls, east | Tues | -20.2 | -20.8 | -24.7 | -23.9 | -24.2 | -23.9 | . | | | | | | |
| Pinot gris | Naramata Bench | Tues | -19.4 | -18.2 | -22.1 | -22.5 | -22.6 | -22.0 | . | | | | | | |
| Pinot gris | Black Sage | Wed | -19.2 | -19.1 | -23.0 | -23.1 | -23.2 | -23.0 | . | | | | | | |
| Pinot noir | Naramata Bench | Tues | -20.4 | -19.7 | -23.0 | -23.4 | -23.5 | -23.5 | . | | | | | | |
| Pinot noir | Black Sage | Wed | -19.5 | -20.0 | -23.1 | -23.2 | -23.6 | -23.0 | . | | | | | | |
| Riesling | Oliver east | Tues | -18.1 | -18.4 | -21.6 | -23.0 | -22.5 | -22.6 | . | | | | | | |
| Riesling | Naramata Bench | Tues | -20.4 | -20.9 | -22.9 | -23.7 | -24.1 | -24.5 | -22.4 | | | | | | |
| Sauvignon blanc | Oliver east | Tues | -17.8 | -19.2 | -22.6 | -22.5 | -22.4 | -22.5 | . | | | | | | |
| Sauvignon blanc | Oliver east | Tues | -17.9 | -21.1 | -23.0 | -22.4 | -22.4 | -23.1 | . | | | | | | |
| Sauvignon blanc | Black Sage | Wed | -17.7 | -19.5 | -21.2 | -21.3 | -22.3 | -21.9 | -19.7 | | | | | | |
| Shiraz | Osoyoos northeast | Tues | -18.4 | -17.5 | -20.7 | -21.1 | -21.9 | -22.5 | . | | | | | | |
| Shiraz | Osoyoos northeast | Tues | -16.5 | -16.8 | -20.8 | -22.3 | -22.9 | -23.0 | . | | | | | | |
| Shiraz | Osoyoos, southeast | Wed | -17.7 | -18.5 | -21.3 | -22.4 | -23.1 | -22.5 | . | | | | | | |
| Shiraz | Black Sage | Wed | -18.7 | -20.6 | -22.0 | -23.5 | -21.5 | -22.7 | . | | | | | | |
| Viognier | Osoyoos, southeast | Wed | -18.0 | -18.9 | -22.2 | -22.4 | -23.3 | -21.6 | . | | | | | | |
| Viognier | Osoyoos west | Wed | -18.1 | -18.5 | -21.6 | -22.5 | -22.2 | -22.3 | . | | | | | | |
| Zinfandel | Osoyoos northeast | Tues | -16.5 | -16.6 | -18.5 | -20.1 | -21.0 | -20.6 | . | | | | | | |
| Zinfandel (2yr) | Black Sage | Tues | -16.8 | -16.9 | -20.1 | -21.3 | -21.1 | -21.5 | . | | | | | | |

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 Valley.