

WINE GRAPE GUIDE TO INSECT AND DISEASE MANAGEMENT



DISCLAIMER

Recommendations in this guide are given for general information only and do not give the user the right to use a product in a manner not in accordance with the pesticide label or Pest Control Products Act. Perennia, by funding and printing this publication, and the editors/authors, do not offer any warranty or guarantee and do not assume any liability for crop loss, animal loss, health, safety, or environmental hazard caused by the use of any pesticide, advice, or recommendation in this schedule. Pesticides used in this schedule are products labeled for the target and crop. This information was retrieved from the Pest Management Regulatory Agency online list of Registered Products Database. The list of products presented in this schedule is intended to be complete, based on products known to be available in the region, but in no way is guaranteed to be complete. Some of the products listed may not be available. Trade names are given as a convenience to producers and are neither an endorsement of the product nor a suggestion that similar products are not available or effective.

Discard old editions of the pesticide spray guide. Each year, Perennia specialists update the pesticides and information contained in this publication.

ONLINE RESOURCE

The information contained in the following summary is also available online in an interactive format at <https://www.farmdatatools.perennia.ca/pest-guides/>

Emergency and First Aid Procedure for Pesticide Poisoning

- If poisoning from exposure to a pesticide by swallowing, inhalation or contact with skin or eyes is suspected, read the product label of the pesticide container and carry out first aid treatment as suggested.
- If a person is seriously injured, call 911 immediately.
- Emergency advice on pesticide poisoning is available 24 hours/day from the Atlantic Canada Poison Centre. Phone: 1-844-764-7669 (NS & PEI).

All Pesticides in the Wine Grape Insect and Disease Guide 2026



Group	Active Ingredient	Pesticide	PCP #	PHI (days)	REI General (days)	Product Maximum	Restricted Reapplication (days)	Potentially Organic	Status Update
ANIMAL REPELLENT									
-	Sheep fat	TRICO Repellent 6.4 EC	34463	-	0.2, when dry	2 apps, 30 L/ha	28	Yes	
FUNGICIDE									
-	capric acid + caprylic acid	Dart EC	34564	0	0.5, when dry	9 apps	7 - 10 d	Yes	
1	thiophanate-methyl	Senator 50 SC	32096	45	0.5-45, see label	2 apps	14-21	No	
1	thiophanate-methyl	Thiophanate-Methyl 500 SC	31784	45	0.5-45, see label	2 apps	14-21	No	
3	flutriafol	Fullback 125 SC	31679	14	0.5-35, see label	2048 mL/ha	14 - 21 d	No	
3	mefentrifluconazole	Cevya 400 SC	33405	14	0.5-35, see label	1.125 L/ha	14 d	No	
3	myclobutanil	Nova 40 WSP	22399	14	0.5-14, see label	5 apps	14 - 21 d, see label	No	
3	difenoconazole	Inspire 250 EC	30004	7-14 see label	0.5-10, see label	2-4 apps. see label	11 - 21 d	No	
03, 07	difenoconazole + benzovindiflupyr	Aprovia Top EC	31526	2	0.5-10, see label	6 apps, 3.9 L/ha	11 - 21 d	No	
03, 09	difenoconazole + cyprodinil	Inspire Super EC	30827	7-14 see label	0.5-15, see label	2-4 apps, 3 L/ha. see label	10 - 21d; see label	No	
04, M3	metalaxyl-M and S-isomer + mancozeb	Ridomil Gold MZ 68 WG	28893	66	0.5-21, see label	1 app	7-14 d	No	
5	spiroxamine	Priwen 500 EC	31959	35	0.5-17, see label	1.2 L/ha	14 d	No	
7	boscalid	Cantus 70 WDG	30141	14	0.5	5 apps	10 - 14 d	No	
7	fluxapyroxad	Sercadis 300 SC	31697	14	0.5	6 apps	7 - 14 d	No	
07, 09	fluopyram + pyrimethanil	Luna Tranquility SC	30510	45	0.5-1, see label	2-3 apps, 4 L/ha, see label	7 - 14 d	No	
07, 11	boscalid + pyraclostrobin	Pristine WG	27985	14	0.5 -21, see label	2-6 apps, see label	10-21, see label	No	
07, 11	pyraclostrobin + fluxapyroxad	Merivon SC	33951	14-21, see label	0.5-21, see label	6 apps	7 - 14 d	No	
07, 12	pydiflumetofen + fludioxonil	Miravis Prime SC	33207	14	0.5-1, see label	2 apps	21 d	No	
9	cyprodinil	Vanguard 75 WG	25509	7	2	3 apps	7	No	
9	pyrimethanil	Scala 400 SC	28011	7	0.5-1, see label	3 apps	7 d	No	
09, 12	cyprodinil + fluodioxinil	Switch 62.5 WG	28189	7	2-7, see label	2 apps	21 d	No	
11	kresoxim-methyl	Sovran 50 WG	26257	14	0.5-2, see label	1-2 apps, see label	7 - 21 d, see label	No	
11	mandestrobin	Intuity 43 SC	32288	10	0.5	3-4 apps, 2631 mL/ha, see label	See label	No	
11	Trifloxystrobin	Flint Extra 42.6 SC	34962	14	0.5-18, see label	4 apps	14	No	
17	fenhexamid	Elevate 50 WDG	25900	7	0.5-40, see label	1-3 apps, see label	-	No	
19	polyoxin d zinc salt	Diplomat 5 SC	32918	0	0.5, when dry	150g/ai/ha/season	7 - 14 d	Yes	
19	polyoxin D zinc salt	Polyoxin D Zinc Salt 5 SC	32688	0	0.5, when dry	150 g a.i./ha/season	See label	Yes	
21	cyazofamid	Torrent 400 SC	30392	30	0.5-6, see label	6 apps	10 - 14 d	No	
29	fluazinam	Allegro 500F 40 SC	27517	21	0.5-9, see label	2-4 apps, see label	7-21 d. See Label	No	
33	mono- and dipotassium salts of phosphorous acid	Rampart 53 SN	30654	1	0.5, when dry	5 apps	7 - 21 d	No	
40	mandipropamid	Revus 250 SC	29074	14	0.5	4 apps	7 - 10 d	No	
40, 45	ametoctradin + dimethomorph	Zampro SC	30321	14	0.5-8, see label	4 apps	7 - 10 d	No	
50	metrafenone	Vivando 300 SC	29765	14	0.5-4, see label	6 apps	14 - 21 d	No	
50	pyriofenone	Property 300 SC	32534	0	0.5	1.2 L/ha	14 d	No	
BM01	BLAD polypeptide	ProBlad 20 SC	31782	0	4HRS	5 apps	7 - 10 d	Yes	
BM01	tea tree oil	Timorex Gold 24 E	30910	2	0.2, when dry	2 apps; with 400-800L of water	7-14 d	Yes	
BM 01	Swinglea glutinosa	EcoSwing 82 SN	35206	0	0.2	10	46217	Yes	

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BM02	Bacillus amyloliquefaciens	Serifel WP	30054	0	0.2, when dry	-	5 - 10 d	Yes	
BM02	Bacillus amyloliquefaciens strain F727	Stargus LI	33246	0	0.2			Yes	
BM02	QST 713 strain of dried Bacillus subtilis	Serenade OPTI WP	31666	0	0.2, when dry	-	7 - 10 d	Yes	
BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	31887	0	0.2	-	3-10, see label	Yes	
BM02	Bacillus amyloliquefaciens strain D747	Double Nickel 55 WG	31888	0	0.5, when dry	4 consecutive apps. then interval	3 - 10 d	Yes	
M	copper hydroxide 53.8% (metallic copper equivalent 35%)	Kocide 2000-O 54 DF	33441	2	2	7 apps	7 - 14 d	Yes	
M	copper sulphate	Copper 53 W	9934	2	2	7 apps	3 d	Yes	
M01	sulphur	Kumulus 80 DF WDG	18836	1-21, see label	1	2 apps	10 d	Yes	
M02	copper octanoate	Cueva 1.8 SN	31825	1	0.2	15 apps	7-10 d	Yes	
M02	copper oxychloride	Copper Spray Fungicide 50 WP	19146	2	2	7 apps	3 d	Yes	
M02	copper oxychloride	Guardsman Copper Oxychloride 50 WP	13245	2	2	7 apps	3 d	Yes	
M02	sulphur	Microscopic Sulphur 92 WP	873	21	1	2 apps-4 apps. Pest Dependent	10 d	Yes	
M03	mancozeb	Dithane Rainshield 75 WG	20553	66	7	1 app	-	No	
M03	mancozeb	Manzate Max 480 F	33299	66	0.5-21, see label	1 app	-	No	
M03	mancozeb	Manzate ProStick 75 DF	28217	66	0.5-21, see label	1 app	-	No	
M03, 22	mancozeb + zoxamide	Gavel DF	26842	66	0.5-7 see label	1 app	7 - 10 d	No	
M04	captan	Captan 480 SC	34551	1-55, see label	0.5-78, see label	1-2 apps, see label	7	No	
M04	captan	Captan L 482 SC	35343	8-55, see label	0.5-78, see label	1-2 apps, see label	7	No	
M04	captan	Maestro 80 WSP	33488	55	0.5-78, see label	1-2 apps, see label	7 d	No	
M04	captan	Supra Captan 80 WSP	33641	7	0.5-78, see label	1-2, see label	7 d	No	
M04	folpet	Follow 80 WDG	34314	1	0.5-35, see label	2 apps, see label	10 d	No	
M04	folpet	Folpan 80 WDG	27733	0.5-35	0.5-35, see label	2 apps, see label	10 d	No	
M3	mancozeb	Penncozeb 75 DF Raincoat WG	30241	66	0.5-21, see label	1 app	-	No	
NC	citric acid + lactic acid	Cyclone Plus SN	34762	0	0.2, when dry	-	7-10, see label	Yes	
NC	garlic powder	Buran 15 SN	30601	0	0.5, when dry	-	7 - 14 d	Yes	
NC	hydrogen peroxide + peroxyacetic acid	OxiDate 2.0 SN	32907	0	0.2, when dry	8 apps	5-7 d	Yes	
NC	potassium bicarbonate	MilStop 85 DU	28095	0	0.2	10 apps	7-14 d	Yes	
NC	citric acid + lactic acid (fermentation products of Lactobacillus casei strain LPT-111)	Tivano LI	30468	0	0.2, when dry	-	7 - 10 d	Yes	
P05	Reynoutria sachalinensis	Regalia Maxx 20 SC	30199	0	0.5, when dry	0	7-14d	Yes	
P05	Reynoutria sachalinensis	Regalia Rx 5 SC	32350	0	0.5, when dry	-	7-10, see label	Yes	
P06	Bacillus mycoides isolate J	LifeGard 40 WG	32526	0	0.2, when dry	-	7 - 21 d see label	Yes	
P07	mono- and dibasic sodium, potassium, and ammonium phosphites	Phostrol 53.6 LI	30449	0	0.5	4 apps	7 d	No	
U13	flutianil	Gatten 50.7 EC	34297	14	0.5	4 apps	7 - 14 d	No	
INSECTICIDE AND MITICIDE									
NC	mineral oil	Purespray Green 13 E	27666	14	0.5	2 apps	7-14d; see label	Yes	
3	cypermethrin	Ripcord 400 EC	15738	2-7d see label	0.5-7, see label	2-3 see label	7	No	
3	cypermethrin	Up-cyde 2.5 EC	28795	7	7, see label	3 apps	7 d	No	
3	pyrethrins	Pyganic EC 1.4 II	30164	0.5	0.5	8 apps, 37.2 L/ha	7 d	Yes	

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4	acetamiprid	Aceta 70 WP	33298	3-5d, see label	5-13d, see label	2 apps	14 d	No	
4	acetamiprid	Assail 70 WP	27128	3-5, see label	5-13d, see label	2 apps	14 d	No	
04A	clothianidin	Clutch 50 WDG	29382	1	0.5	1 app	-	No	
04D	flupyradifurone	Sivanto Prime 200 SN	31452	0-30, see label	0.5-4, see label	2000 mL/ha	10 (min)	No	
21, 39	fenazaquin	Magister 205 SC	34544	7-15, see label	0.5-22, see label	1 app	-	No	
23	spirotetramat	Movento 240 SC	28953	7	0.5	920 mL/ha	30 d	No	
28	chlorantraniliprole	Altacor MaX 70 WG	34654	14	0.5	3 apps, 324 g/ha/yr	7	No	

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
Aphids	3	cypermethrin	Up-cyde 2.5 EC	240 ml/ha	100-500 L/ha, see label	7	7, see label	3 apps	7 d	Pest stage: Varies based on pest. See label. Crop stage: Varies based on pest. See label. Pollinators/Beneficials: Toxic to bees and certain beneficial insects. Crop safety: Do not use on table grapes. Not all grape varieties have been tested.
	3	pyrethrins	Pyganic EC 1.4 II	2.32-4.65 L/ha, see label	-	0.5	0.5	8 apps, 37.2 L/ha	7 d	Pest stage: When first observed. Do not wait for heavy infestation. Pollinators/Beneficials: Toxic to bees and certain beneficial insects.
	NC	mineral oil	Purespray Green 13 E	10 L/ha	-	14	0.5	2 apps	7-14d; see label	Pest stage: Prevention Crop stage: Varies based on pest. See label. Crop safety: Do not tank mix oil and copper more than once/season. Do not use copper and oil together with fruit present. Do not use oil within 14 days before or after captan fungicide. Oil will remove the bloom on grapes. Coverage: Thorough coverage is essential.
Black rot	3	flutriafol	Fullback 125 SC	585-731 mL/ha, see label	-	14	0.5-35, see label	2048 mL/ha	14 - 21 d	Crop stage: Apply as a foliar spray beginning at 15 to 25-cm shoots.
	3	mefentrifluconazole	Cevya 400 SC	0.19-0.25 L/ha, see label	100 L/ha (min)	14	0.5-35, see label	1.125 L/ha	14 d	Pest stage: Prevention
	3	myclobutanil	Nova 40 WSP	200 g/ha	-	14	0.5-14, see label	5 apps	14 - 21 d, see label	Crop stage: Prebloom.
	03, 09	difenoconazole + cyprodinil	Inspire Super EC	836-1475 ml/ha, see label	150 L/ha (min)	7-14 see label	0.5-15, see label	2-4 apps, 3 L/ha. see label	10 - 21d; see label	Pest stage: Prevention. Crop stage: Varies based on pest. See label. Pollinators/Beneficials: Toxic to certain beneficial arthropods. Crop safety: Sensitivity unknown on <i>V. labrusca</i> , <i>v. labrusca</i> hybrids and other non-vinifera hybrids.
	07, 11	boscalid + pyraclostrobin	Pristine WG	0.420-0.735 kg/ha, see label	250 L/ha (min)	14	0.5 -21, see label	2-6 apps, see label	10-21, see label	Pest stage: Varies based on pest. See label. Crop stage: Varies based on pest. See label. Crop safety: Do not use on Concord, Worden or Fredonia varieties due to possible injury. Not for use on table grapes.
	11	kresoxim-methyl	Sovran 50 WG	240-300 g/ha	-	14	0.5-2, see label	1-2 apps, see label	7 - 21 d, see label	Crop stage: Varies based on pest. See label. Pollinators/Beneficials: Toxic to certain beneficial arthropods.
11	Trifloxystrobin	Flint Extra 42.6 SC	110-145 mL/ha, see label	-	14	0.5-18, see label	4 apps	14	Pollinators: Toxic to certain beneficial insects Crop safety: Do not apply to Concord grapes Pest stage: Prevention for powdery mildew, when shoots are 3-9 cm for black rot	

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	M	copper sulphate	Copper 53 W	3.0 kg/ha	1000 L/ha	2	2	7 apps	3 d	Pest stage: Apply according to local spray calendar recommendations Coverage: Add 6 Kg of hydrated lime per 1000 L. Crop Safety: Cannot be used on French hybrid or vinifera varieties. Do not apply on Seibel varieties.
	M04	captan	Captan 480 SC	3.3-5 L/ha, see label	-	1-55, see label	0.5-78, see label	1-2 apps, see label	7	Crop stage: Varies based on pest. See label. Pest stage: Initiate applications preventatively before infection becomes established.
	M04	captan	Captan L 482 SC	3.3-5 L/ha, see label	-	8-55, see label	0.5-78, see label	1-2 apps, see label	7	Crop stage: Varies based on pest. See label.
	M04	folpet	Folpan 80 WDG	1.25 kg/ha	1000 L/ha	0.5-35	0.5-35, see label	2 apps, see label	10 d	Crop stage: Varies based on pest. See label. Pest stage: Varies based on pest. See label. Crop safety: Do not use on Concord, Foch, De Buren, or any varieties sensitive to sulphur. Recommendations: For powdery mildew, tank mix with 12.6 kg/ha of Kumulus DF
	M3	mancozeb	Penncozeb 75 DF Raincoat WG	3.0 kg/ha	-	66	0.5-21, see label	1 app	-	Crop stage: Apply pre-bloom when new shoots are 20-25 cm long. Pollinators/Beneficials: Toxic to bees and certain beneficial arthropods.
Botrytis bunch rot	03, 09	difenoconazole + cyprodinil	Inspire Super EC	836-1475 ml/ha, see label	150 L/ha (min)	7-14 see label	0.5-15, see label	2-4 apps, 3 L/ha. see label	10 - 21d; see label	Pest stage: Prevention. Crop stage: Varies based on pest. See label. Pollinators/Beneficials: Toxic to certain beneficial arthropods. Crop safety: Sensitivity unknown on V. labrusca, v. labrusca hybrids and other non-vinifera hybrids.
	07, 09	fluopyram + pyrimethanil	Luna Tranquility SC	600-1200 ml/ha, see label	-	45	0.5-1, see label	2-3 apps, 4 L/ha, see label	7 - 14 d	Pest stage: Varies based on pest. See label. Crop stage: Varies based on pest. See label. Crop safety: Do not use after the BBCH 73 stage (when bunches begin to hang).
	07, 11	boscalid + pyraclostrobin	Pristine WG	0.420-0.735 kg/ha, see label	250 L/ha (min)	14	0.5 -21, see label	2-6 apps, see label	10-21, see label	Pest stage: Varies based on pest. See label. Crop stage: Varies based on pest. See label. Crop safety: Do not use on Concord, Worden or Fredonia varieties due to possible injury. Not for use on table grapes.
	07, 12	pydiflumetofen + fludioxonil	Miravis Prime SC	0.8-1 L/ha, see label	See label	14	0.5-1, see label	2 apps	21 d	Crop stage: Early bloom.
	9	cyprodinil	Vanguard 75 WG	750 g/ha	1000 L/ha (min)	7	2	3 apps	7	Pest stage: Begin applications at early bloom. One additional application may be made at berry touch, veraison, or preharvest.
	9	pyrimethanil	Scala 400 SC	2 L/ha	-	7	0.5-1, see label	3 apps	7 d	Crop stage: Early bloom, berry touch to bunch closure, and fruit ripening through to harvest when needed.

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	09, 12	cyprodinil + fluodioxinil	Switch 62.5 WG	775-975 g/ha, see label	-	7	2-7, see label	2 apps	21 d	Pest stage: Begin applications at early bloom. One additional application may be made at berry touch, veraison, or preharvest. Crop safety: Do not use an adjuvant.
	11	mandestrobin	Intuity 43 SC	439 – 877 mL/ha	100 L/ha (min)	10	0.5	3-4 apps, 2631 mL/ha, see label	See label	Pest stage: Prevention. Crop stage: Varies based on pest. See label.
	17	fenhexamid	Elevate 50 WDG	1.12 kg/ha	-	7	0.5-40, see label	1-3 apps, see label	-	Pest stage: Prevention Crop stage: Varies based on pest. See label. Recommendations: For treatment of botrytis bunch rot, use with Agral 90 at 200 mL/1000 L of water (0.02% v/v).
	19	polyoxin d zinc salt	Diplomat 5 SC	259–926 ml/ha, see label	-	0	0.5, when dry	150g/ai/ha/season	7 - 14 d	Pest stage: Varies based on pest. See label. Crop stage: Varies based on pest. See label.
	BM01	BLAD polypeptide	ProBlad 20 SC	1.5 – 3.3 L/ha, see label	375 L/ha spray volume (min)	0	4HRS	5 apps	7 - 10 d	Pest stage: Prevention. Crop stage: Varies based on pest. See label.
	BM01	tea tree oil	Timorex Gold 24 E	1.5-4.0 L/ha, see label	600-1500 L/ha, see label	2	0.2, when dry	2 apps; with 400-800L of water	7-14 d	Pest stage: At first sign of disease development. Crop safety: Do not tank-mix or alternate with Supra Captan, Maestro or sulphur products. Do not spray during the warm hours of the day and in hot seasons with temperatures above 35°C (95°F) Pollinators/Beneficials: Toxic to certain beneficial insects.
	BM 01	Swinglea glutinosa	EcoSwing 82 SN	1.75-2.35 L/ha	-	0	0.2	10	46217	Pest stage: Prevention Coverage: For field uses, repeat application if measurable rain occurs within two to three hours of spraying.
	BM02	Bacillus amyloliquefaciens	Serifel WP	0.25-0.5 kg/ha, see label	-	0	0.2, when dry	-	5 - 10 d	Pest stage: Prevention. Crop stage: Varies based on pest. See label.
	BM02	Bacillus amyloliquefaciens strain D747	Double Nickel 55 WG	0.5-5.0 kg/ha, see label	-	0	0.5, when dry	4 consecutive apps. then interval	3 - 10 d	Crop stage: Varies based on pest. See label.
	BM02	Bacillus amyloliquefaciens strain F727	Stargus LI	5 L/ha	-	0	0.2	-	-	
	BM02	QST 713 strain of dried Bacillus subtilis	Serenade OPTI WP	1.7-3.3 kg/ha	-	0	0.2, when dry	-	7 - 10 d	Crop stage: Varies based on pest. See label.

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	NC	hydrogen peroxide + peroxyacetic acid	OxiDate 2.0 SN	See label	-	0	0.2, when dry	8 apps	5-7 d	Pollinators/Beneficials: Toxic to bees and certain beneficial arthropods. Pest stage: Start preventative sprays early when conditions favor disease development. Rate and water volume vary based on disease development stage. See label. Crop safety: Test for phytotoxicity prior to using higher rates. Apply during dormancy to reduce pathogens. Do not apply 1:40 rate to blooming crops.
	P05	Reynoutria sachalinensis	Regalia Maxx 20 SC	0.125 – 0.25% v/v, see label	500-1500 L/ha, see label	0	0.5, when dry	0	7-14d	Pest stage: Prevention or at first sign of disease. Suppression only. Crop stage: Varies based on pest. See label.
	P05	Reynoutria sachalinensis	Regalia Rx 5 SC	5 – 10 L/ha, see label	-	0	0.5, when dry	-	7-10, see label	Crop stage: Varies based on pest. See label. Pest stage: Prevention. Suppression only.
Dead arm	M04	captan	Captan 480 SC	3.3-5 L/ha, see label	-	1-55, see label	0.5-78, see label	1-2 apps, see label	7	Crop stage: Varies based on pest. See label. Pest stage: Initiate applications preventatively before infection becomes established.
	M04	captan	Captan L 482 SC	3.3-5 L/ha, see label	-	8-55, see label	0.5-78, see label	1-2 apps, see label	7	Crop stage: Varies based on pest. See label.
Deer	-	Sheep fat	TRICO Repellent 6.4 EC	15 L/ha	75-600 L/ha, see label	-	0.2, when dry	2 apps, 30 L/ha	28	Crop stage: Apply in the spring until the beginning of flowering. Crop safety: Do not apply undiluted. Apply only under dry conditions.
Downy mildew	-	capric acid + caprylic acid	Dart EC	0.25-0.35% in 370-650L/ha	-	0	0.5, when dry	9 apps	7 - 10 d	Pest stage: Varies based on pest. See label. Crop stage: Varies based on pest. See label.
	04, M3	metalaxyl-M and S-isomer + mancozeb	Ridomil Gold MZ 68 WG	2.5 kg/ha	-	66	0.5-21, see label	1 app	7-14 d	Crop stage: Post-bloom. Pest stage: Prevention Pollinators/Beneficials: Toxic to certain beneficial arthropods.
	07, 11	boscalid + pyraclostrobin	Pristine WG	0.420-0.735 kg/ha, see label	250 L/ha (min)	14	0.5 -21, see label	2-6 apps, see label	10-21, see label	Pest stage: Varies based on pest. See label. Crop stage: Varies based on pest. See label. Crop safety: Do not use on Concord, Worden or Fredonia varieties due to possible injury. Not for use on table grapes.
	11	kresoxim-methyl	Sovran 50 WG	240-300 g/ha	-	14	0.5-2, see label	1-2 apps, see label	7 - 21 d, see label	Crop stage: Varies based on pest. See label. Pollinators/Beneficials: Toxic to certain beneficial arthropods.
	19	polyoxin D zinc salt	Polyoxin D Zinc Salt 5 SC	463-926 mL/ha, see label	-	0	0.5, when dry	150 g a.i./ha/season	See label	Pest stage: Prevention Crop stage: Varies based on pest. See label.
	21	cyazofamid	Torrent 400 SC	0.15-0.2 L/ha, see label	400 L/ha (min)	30	0.5-6, see label	6 apps	10 - 14 d	Pest stage: When warning systems forecast disease infection periods or when disease conditions are favorable for disease development.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	33	mono- and dipotassium salts of phosphorous acid	Rampart 53 SN	2.5-5 L/ha, see label	500-1000 L/ha, see label	1	0.5, when dry	5 apps	7 - 21 d	Crop safety: Do not apply to plants that are dormant or heat stressed. To avoid undesirable copper phytotoxicity, do not apply foliarly to plants treated with copper based compounds at less than 20 day intervals. Allow foliage to completely dry after application. Do not apply when conditions favour wet tissue for prolonged periods (> 4 hours).
	40	mandipropamid	Revus 250 SC	500 ml/ha	-	14	0.5	4 apps	7 - 10 d	Pest stage: Prevention. Coverage: The use of a non-ionic adjuvant (0.25% v/v) is recommended.
	40, 45	ametoctradin + dimethomorph	Zampro SC	0.8-1.0 L/ha, see label	200 L/ha (min)	14	0.5-8, see label	4 apps	7 - 10 d	Pest stage: Prevention. Recommendations: The addition of a spreading/ penetrating adjuvant is recommended to improve disease control performance.
	BM01	tea tree oil	Timorex Gold 24 E	1.5-4.0 L/ha, see label	600-1500 L/ha, see label	2	0.2, when dry	2 apps; with 400-800L of water	7-14 d	Pest stage: At first sign of disease development. Crop safety: Do not tank-mix or alternate with Supra Captan, Maestro or sulphur products. Do not spray during the warm hours of the day and in hot seasons with temperatures above 35°C (95°F) Pollinators/Beneficials: Toxic to certain beneficial insects.
	M	copper hydroxide 53.8% (metallic copper equivalent 35%)	Kocide 2000-O 54 DF	1.6 kg/ha	500-1400 L/ha	2	2	7 apps	7 - 14 d	Crop stage: Start at bud break. Crop safety: Foliage injury may occur on copper sensitive varieties such as Concord, Delaware, Niagara and Rosette. Always test for sensitivity. Recommendations: The addition of 454-1360 g hydrated lime per 454 g of Kocide 2000 may reduce phytotoxicity.
	M	copper sulphate	Copper 53 W	3.0 kg/ha	1000 L/ha	2	2	7 apps	3 d	Pest stage: Apply according to local spray calendar recommendations Coverage: Add 6 Kg of hydrated lime per 1000 L. Crop Safety: Cannot be used on French hybrid or vinifera varieties. Do not apply on Seibel varieties.
	M02	copper octanoate	Cueva 1.8 SN	0.5% to 2% solution, applied at 470-940 L per hectare, see label	-	1	0.2	15 apps	7-10 d	Crop safety: Do not mix with lime. Certain Vitis vinifera and French hybrid varieties may be sensitive to copper sprays resulting in marginal leaf burn. Make test sprays before spraying these varieties. Crop stage: Start at flowering.
	M02	copper oxychloride	Copper Spray Fungicide 50 WP	3.0 kg	1000-1500 L/ha, see label	2	2	7 apps	3 d	Coverage: Use with lime (6.0 kg/1000 L). Crop stage: Pre-bloom and post-bloom spray volumes vary. See label. Crop safety: Do not apply on Seibel varieties.
	M02	copper oxychloride	Guardsman Copper Oxychloride 50 WP	3.0 kg/ha	1000 L/ha	2	2	7 apps	3 d	Coverage: Apply with 6 kg/ha of hydrated lime Crop stage: Pre or post bloom. Rate varies based crop stage. See label. Crop safety: Do not apply on Seibel varieties.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	M03	mancozeb	Dithane Rainshield 75 WG	3 kg/ha	-	66	7	1 app	-	Crop stage: Pre-bloom. Pollinators/Beneficials: Toxic to bees and certain beneficial arthropods.
	M03	mancozeb	Manzate Max 480 F	4.69 L/ha	200-1000 L/ha	66	0.5-21, see label	1 app	-	Crop stage: Apply pre-bloom when new shoots are 20-25 cm long. Pollinators/Beneficials: Toxic to bees and certain beneficial arthropods.
	M03	mancozeb	Manzate ProStick 75 DF	3 kg/ha	-	66	0.5-21, see label	1 app	-	Crop stage: Apply pre-bloom when new shoots are 20-25 cm long. Pollinators/Beneficials: Toxic to bees and certain beneficial arthropods.
	M03, 22	mancozeb + zoxamide	Gavel DF	2.25 kg/ha	-	66	0.5-7 see label	1 app	7 - 10 d	Crop stage: Pre-bloom Pollinators/Beneficials: Toxic to bees and certain beneficial arthropods. Recommendations: There is a specific reentry notification required for grapes. See label.
	M04	captan	Captan 480 SC	3.3-5 L/ha, see label	-	1-55, see label	0.5-78, see label	1-2 apps, see label	7	Crop stage: Varies based on pest. See label. Pest stage: Initiate applications preventatively before infection becomes established.
	M04	captan	Maestro 80 WSP	2 kg/ha	-	55	0.5-78, see label	1-2 apps, see label	7 d	Crop stage: Varies based on pest. See label. Crop safety: Do not use within 14 days of oil or as tank-mix or sequential applications with products such as Timorex Gold
	M04	folpet	Folpan 80 WDG	1.25 kg/ha	1000 L/ha	0.5-35	0.5-35, see label	2 apps, see label	10 d	Crop stage: Varies based on pest. See label. Pest stage: Varies based on pest. See label. Crop safety: Do not use on Concord, Foch, De Buren, or any varieties sensitive to sulphur. Recommendations: For powdery mildew, tank mix with 12.6 kg/ha of Kumulus DF
	M3	mancozeb	Pencozeb 75 DF Raincoat WG	3.0 kg/ha	-	66	0.5-21, see label	1 app	-	Crop stage: Apply pre-bloom when new shoots are 20-25 cm long. Pollinators/Beneficials: Toxic to bees and certain beneficial arthropods.
	NC	citric acid + lactic acid (fermentation products of Lactobacillus casei strain LPT-111)	Tivano LI	12-16 L/ha	200 L/ha	0	0.2, when dry	-	7 - 10 d	Pest stage: Prevention or early stages. Coverage: Addition of a surfactant can increase coverage.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate 2.0 SN	See label	-	0	0.2, when dry	8 apps	5-7 d	<p>Pollinators/Beneficials: Toxic to bees and certain beneficial arthropods.</p> <p>Pest stage: Start preventative sprays early when conditions favor disease development. Rate and water volume vary based on disease development stage. See label.</p> <p>Crop safety: Test for phytotoxicity prior to using higher rates. Apply during dormancy to reduce pathogens. Do not apply 1:40 rate to blooming crops.</p>
	P06	Bacillus mycoides isolate J	LifeGard 40 WG	167 – 333 g/ha, see label	210-1000 L/ha	0	0.2, when dry	-	7 - 21 d see label	<p>Pest stage: Prevention</p> <p>Crop stage: Varies based on pest. See label.</p> <p>Pollinators/Beneficials: Toxic to bees.</p>
	P07	mono- and dibasic sodium, potassium, and ammonium phosphites	Phostrol 53.6 LI	2.9-5.8 L/ha, see label	500 L/ha (min)	0	0.5	4 apps	7 d	<p>Pest stage: Prevention</p>
Erineum mites	M01	sulphur	Kumulus 80 DF WDG	3.4-12.6 kg/ha, see label	See label	1-21, see label	1	2 apps	10 d	<p>Crop safety: Do not use on Concord, Foch, de Chaunac, Van Buren or other sulphur sensitive varieties.</p> <p>Pest stage: Varies based on pest. See label.</p> <p>Crop stage: Varies based on pest. See label.</p>
	M02	sulphur	Microscopic Sulphur 92 WP	3-4.5 kg/ha, see label	1000-3000 L/ha, see label	21	1	2 apps-4 apps. Pest Dependent	10 d	<p>Crop stage: Varies based on pest. See label.</p> <p>Pest stage: At first sign of pest.</p> <p>Crop safety: Do not use on Concord, Foch, de Chaunac, Van Buren or other sulphur sensitive varieties. Can be phytotoxic to certain grape cultivars.</p>
	NC	mineral oil	Purespray Green 13 E	10 L/ha	-	14	0.5	2 apps	7-14d; see label	<p>Pest stage: Prevention</p> <p>Crop stage: Varies based on pest. See label.</p> <p>Crop safety: Do not tank mix oil and copper more than once/season. Do not use copper and oil together with fruit present. Do not use oil within 14 days before or after captan fungicide. Oil will remove the bloom on grapes.</p> <p>Coverage: Thorough coverage is essential.</p>
Grape phylloxera	4	acetamiprid	Aceta 70 WP	80 g/ha	200 L/ha (min) spray volume	3-5d; see label	5-13d, see label	2 apps	14 d	<p>Coverage: Grape Phylloxera: Aerial form only.</p> <p>Pollinators/Beneficials: Toxic to bees.</p> <p>Crop safety: Do not make a foliar application of Aceta 70 WP following a soil application of a Group 4 Insecticide.</p>
	4	acetamiprid	Assail 70 WP	80 g/ha	200 L/ha (min) spray volume	3-5, see label	5-13d, see label	2 apps	14 d	<p>Coverage: Thorough coverage is important to obtain optimum control. Grape Phylloxera: Aerial form only.</p> <p>Pest stage: When threshold is reached.</p> <p>Pollinators/Beneficials: Toxic to bees.</p> <p>Crop safety: Do not make a foliar application following a soil application of a Group 4 Insecticide.</p>
	04A	clothianidin	Clutch 50 WDG	100-210 g/ha, see label	-	1	0.5	1 app	-	<p>Pest stage: Before populations reach damaging levels.</p> <p>Pollinators/Beneficials: Toxic to bees and certain beneficial insects.</p>

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	23	spirotetramat	Movento 240 SC	365-585 ml/ha	-	7	0.5	920 mL/ha	30 d	Pest stage: At threshold or early infestation. Crop safety: DO NOT apply to table grapes. Pollinators/Beneficials: Toxic to bees and certain beneficial insects.
Grape vine decline	1	thiophanate-methyl	Senator 50 SC	2.352 L/ha	467.5 L/ha (min)	45	0.5-45, see label	2 apps	14-21	Crop stage: Dormancy to bud break. Crop safety: Do not apply after bud break. Not all grape varieties have been tested. Pollinators/Beneficials: Toxic to bees and earthworms.
	1	thiophanate-methyl	Thiophanate-Methyl 500 SC	2.352 L/ha	467.5 L/ha (min)	45	0.5-45, see label	2 apps	14-21	Crop stage: Dormant (initiate soon after pruning) to bud break. Crop safety: Do not apply after bud break. Has not been tested on all grape varieties. Pollinators/Beneficials: Toxic to bees and earthworms.
Grey mold	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5 L/ha, see label	-	0	0.2	-	3-10, see label	Crop stage: Varies based on pest. See label.
Japanese beetle	3	pyrethrins	Pyganic EC 1.4 II	2.32-4.65 L/ha, see label	-	0.5	0.5	8 apps, 37.2 L/ha	7 d	Pest stage: When first observed. Do not wait for heavy infestation. Pollinators/Beneficials: Toxic to bees and certain beneficial insects.
	4	acetamiprid	Assail 70 WP	80 g/ha	200 L/ha (min) spray volume	3-5, see label	5-13d, see label	2 apps	14 d	Coverage: Thorough coverage is important to obtain optimum control. Grape Phylloxera: Aerial form only. Pest stage: When threshold is reached. Pollinators/Beneficials: Toxic to bees. Crop safety: Do not make a foliar application following a soil application of a Group 4 Insecticide.
	28	chlorantraniliprole	Altacor MaX 70 WG	143 g/ha		14	0.5	3 apps, 324 g/ha/yr	7	
Leafhoppers	3	cypermethrin	Up-cyde 2.5 EC	240 ml/ha	100-500 L/ha, see label	7	7, see label	3 apps	7 d	Pest stage: Varies based on pest. See label. Crop stage: Varies based on pest. See label. Pollinators/Beneficials: Toxic to bees and certain beneficial insects. Crop safety: Do not use on table grapes. Not all grape varieties have been tested.
	3	pyrethrins	Pyganic EC 1.4 II	2.32-4.65 L/ha, see label	-	0.5	0.5	8 apps, 37.2 L/ha	7 d	Pest stage: When first observed. Do not wait for heavy infestation. Pollinators/Beneficials: Toxic to bees and certain beneficial insects.
	04D	flupyradifurone	Sivanto Prime 200 SN	500-2000 mL/ha, see label	-	0-30, see label	0.5-4, see label	2000 mL/ha	10 (min)	Crop safety: Do not make any application of Sivanto Prime Insecticide following a soil, in-furrow, or seed treatment application of a Group 4D Insecticide. Pollinators/Beneficials: Toxic to certain bees and certain beneficial arthropods.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	NC	mineral oil	Purespray Green 13 E	10 L/ha	-	14	0.5	2 apps	7-14d; see label	Pest stage: Prevention Crop stage: Varies based on pest. See label. Crop safety: Do not tank mix oil and copper more than once/season. Do not use copper and oil together with fruit present. Do not use oil within 14 days before or after captan fungicide. Oil will remove the bloom on grapes. Coverage: Thorough coverage is essential.
Multicoloured Asian ladybird beetles	3	cypermethrin	Ripcord 400 EC	150 ml/ha	400 L/ha (min)	2-7d see label	0.5-7, see label	2-3 see label	7	Pest stage: When threshold is reached. Crop stage: Prior to harvest. Pollinators/Beneficials: Toxic to bees and certain beneficial insects. Crop safety: Do not use on table grapes. Not all grape varieties have been tested.
Phomopsis cane and leaf spot	-	capric acid + caprylic acid	Dart EC	0.25-0.35% in 370-650L/ha	-	0	0.5, when dry	9 apps	7 - 10 d	Pest stage: Varies based on pest. See label. Crop stage: Varies based on pest. See label.
	29	fluazinam	Allegro 500F 40 SC	1.0 L/ha	300 L/ha (min)	21	0.5-9, see label	2-4 apps, see label	7-21 d. See Label	Crop stage: Pre-bloom to early bloom depending on pest. See label for details. Coverage: For Botrytis thorough coverage of bunches is essential.
	M	copper sulphate	Copper 53 W	3.0 kg/ha	1000 L/ha	2	2	7 apps	3 d	Pest stage: Apply according to local spray calendar recommendations Coverage: Add 6 Kg of hydrated lime per 1000 L. Crop Safety: Cannot be used on French hybrid or vinifera varieties. Do not apply on Seibel varieties.
	M04	captan	Maestro 80 WSP	2 kg/ha	-	55	0.5-78, see label	1-2 apps, see label	7 d	Crop stage: Varies based on pest. See label. Crop safety: Do not use within 14 days of oil or as tank-mix or sequential applications with products such as Timorex Gold
	M04	captan	Supra Captan 80 WSP	2-3 kg/ha, see label	-	7	0.5-78, see label	1-2, see label	7 d	Crop safety: Do not use within 14 days of oil or as tank-mix or sequential applications with products such as Timorex Gold. Crop stage: Varies based on pest. See label.
	M04	folpet	Follow 80 WDG	1.25 kg/ha	1000 L/ha	1	0.5-35, see label	2 apps, see label	10 d	Crop stage: Varies based on pest. See label. Crop safety: Do not use on Concord, Foch, De Buren, or any varieties sensitive to sulphur. Recommendations: For powdery mildew, use with Kumulus DF at 12.6 kg/ha.
	M04	folpet	Folpan 80 WDG	1.25 kg/ha	1000 L/ha	0.5-35	0.5-35, see label	2 apps, see label	10 d	Crop stage: Varies based on pest. See label. Pest stage: Varies based on pest. See label. Crop safety: Do not use on Concord, Foch, De Buren, or any varieties sensitive to sulphur. Recommendations: For powdery mildew, tank mix with 12.6 kg/ha of Kumulus DF

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate 2.0 SN	See label	-	0	0.2, when dry	8 apps	5-7 d	Pollinators/Beneficials: Toxic to bees and certain beneficial arthropods. Pest stage: Start preventative sprays early when conditions favor disease development. Rate and water volume vary based on disease development stage. See label. Crop safety: Test for phytotoxicity prior to using higher rates. Apply during dormancy to reduce pathogens. Do not apply 1:40 rate to blooming crops.
Powdery mildew	-	capric acid + caprylic acid	Dart EC	0.25-0.35% in 370-650L/ha	-	0	0.5, when dry	9 apps	7 - 10 d	Pest stage: Varies based on pest. See label. Crop stage: Varies based on pest. See label.
	3	difenoconazole	Inspire 250 EC	292 ml/ha	150 L/ha (min) spray volume	7-14 see label	0.5-10, see label	2-4 apps. see label	11 - 21 d	Crop stage: Bud break. Pollinators/Beneficials: Toxic to certain beneficial arthropods. Crop safety: Sensitivity is unknown on Concord, V. labrusca, V. labrusca hybrids, and other non-vinifera hybrids.
	3	flutriafol	Fullback 125 SC	585–731 mL/ha, see label	-	14	0.5-35, see label	2048 mL/ha	14 - 21 d	Crop stage: Apply as a foliar spray beginning at 15 to 25-cm shoots.
	3	mefentrifluconazole	Cevya 400 SC	0.19-0.25 L/ha, see label	100 L/ha (min)	14	0.5-35, see label	1.125 L/ha	14 d	Pest stage: Prevention
	3	myclobutanil	Nova 40 WSP	200 g/ha	-	14	0.5-14, see label	5 apps	14 - 21 d, see label	Crop stage: Prebloom.
	03, 07	difenoconazole + benzoindiflupyr	Aprovia Top EC	643 mL/ha	150 L/ha (min) spray volume	2	0.5-10, see label	6 apps, 3.9 L/ha	11 - 21 d	Pollinators/Beneficials: Toxic to certain beneficial arthropods. Crop stage: Begin at bud break.
	03, 09	difenoconazole + cyprodinil	Inspire Super EC	836-1475 ml/ha, see label	150 L/ha (min)	7-14 see label	0.5-15, see label	2-4 apps, 3 L/ha. see label	10 - 21d; see label	Pest stage: Prevention. Crop stage: Varies based on pest. See label. Pollinators/Beneficials: Toxic to certain beneficial arthropods. Crop safety: Sensitivity unknown on V. labrusca, v. labrusca hybrids and other non-vinifera hybrids.
	5	spiroxamine	Priwen 500 EC	400 – 600 mL/ha, see label	-	35	0.5-17, see label	1.2 L/ha	14 d	Crop stage: Any time during the period from shoot emergence until 35 days before harvest. Pest stage: Prevention. Crop safety: Do not use on table grapes.
	7	boscalid	Cantus 70 WDG	315 g/ha	100 L/ha (min)	14	0.5	5 apps	10 - 14 d	Crop stage: Begin at budbreak.
	7	fluxapyroxad	Sercadis 300 SC	0.250 – 0.333 L/ha	-	14	0.5	6 apps	7 - 14 d	Pest stage: Prior to onset of disease. Recommendation: Use the higher rates from bunch preclosure to veraison
07, 09	fluopyram + pyrimethanil	Luna Tranquility SC	600-1200 ml/ha, see label	-	45	0.5-1, see label	2-3 apps, 4 L/ha, see label	7 - 14 d	Pest stage: Varies based on pest. See label. Crop stage: Varies based on pest. See label. Crop safety: Do not use after the BBCH 73 stage (when bunches begin to hang).	

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	07, 11	boscalid + pyraclostrobin	Pristine WG	0.420-0.735 kg/ha, see label	250 L/ha (min)	14	0.5 -21, see label	2-6 apps, see label	10-21, see label	Pest stage: Varies based on pest. See label. Crop stage: Varies based on pest. See label. Crop safety: Do not use on Concord, Worden or Fredonia varieties due to possible injury. Not for use on table grapes.
	07, 11	pyraclostrobin + fluxapyroxad	Merivon SC	0.3 L/ha	-	14-21, see label	0.5-21, see label	6 apps	7 - 14 d	Pest stage: Begin applications prior to disease development. Crop safety: Do not tank mix with any other products. Do not use on table grapes, Concord, Noiret, or NY73.0136.17. Possible foliar injury could occur to Worden, Fredonia, Niagara, Steuben, Rougeon or related varieties.
	11	kresoxim-methyl	Sovran 50 WG	240-300 g/ha	-	14	0.5-2, see label	1-2 apps, see label	7 - 21 d, see label	Crop stage: Varies based on pest. See label. Pollinators/Beneficials: Toxic to certain beneficial arthropods.
	11	Trifloxystrobin	Flint Extra 42.6 SC	110-145 mL/ha, see label	-	14	0.5-18, see label	4 apps	14	Pollinators: Toxic to certain beneficial insects Crop safety: Do not apply to Concord grapes Pest stage: Prevention for powdery mildew, when shoots are 3-9 cm for black rot
	19	polyoxin d zinc salt	Diplomat 5 SC	259–926 ml/ha, see label	-	0	0.5, when dry	150g/ai/ha/season	7 - 14 d	Pest stage: Varies based on pest. See label. Crop stage: Varies based on pest. See label.
	21, 39	fenazaquin	Magister 205 SC	1.75 – 2.63 L/ha	500 L/ha (min)	7-15, see label	0.5-22, see label	1 app	-	Pollinators: Toxic to bees
	50	metrafenone	Vivando 300 SC	0.750 L/ha	-	14	0.5-4, see label	6 apps	14 - 21 d	Crop stage: Bud break Pest stage: Prior to onset of disease.
	50	pyriofenone	Property 300 SC	0.3 – 0.366 g/ha, see label	200-1000 L/ha, see label	0	0.5	1.2 L/ha	14 d	Pest stage: Prevention.
	BM01	BLAD polypeptide	ProBlad 20 SC	1.5 – 3.3 L/ha, see label	375 L/ha spray volume (min)	0	4HRS	5 apps	7 - 10 d	Pest stage: Prevention. Crop stage: Varies based on pest. See label.
	BM01	tea tree oil	Timorex Gold 24 E	1.5-4.0 L/ha, see label	600-1500 L/ha, see label	2	0.2, when dry	2 apps; with 400-800L of water	7-14 d	Pest stage: At first sign of disease development. Crop safety: Do not tank-mix or alternate with Supra Captan, Maestro or sulphur products. Do not spray during the warm hours of the day and in hot seasons with temperatures above 35°C (95°F) Pollinators/Beneficials: Toxic to certain beneficial insects.
	BM02	Bacillus amyloliquefaciens	Serifel WP	0.25-0.5 kg/ha, see label	-	0	0.2, when dry	-	5 - 10 d	Pest stage: Prevention. Crop stage: Varies based on pest. See label.
	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5 L/ha, see label	-	0	0.2	-	3-10, see label	Crop stage: Varies based on pest. See label.
	BM02	Bacillus amyloliquefaciens strain D747	Double Nickel 55 WG	0.5-5.0 kg/ha, see label	-	0	0.5, when dry	4 consecutive apps. then interval	3 - 10 d	Crop stage: Varies based on pest. See label.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	BM02	QST 713 strain of dried Bacillus subtilis	Serenade OPTI WP	1.7-3.3 kg/ha	-	0	0.2, when dry	-	7 - 10 d	Crop stage: Varies based on pest. See label.
	M01	sulphur	Kumulus 80 DF WDG	3.4-12.6 kg/ha, see label	See label	1-21, see label	1	2 apps	10 d	Crop safety: Do not use on Concord, Foch, de Chaunac, Van Buren or other sulphur sensitive varieties. Pest stage: Varies based on pest. See label. Crop stage: Varies based on pest. See label.
	M02	copper octanoate	Cueva 1.8 SN	0.5% to 2% solution, applied at 470-940 L per hectare, see label	-	1	0.2	15 apps	7-10 d	Crop safety: Do not mix with lime. Certain Vitis vinifera and French hybrid varieties may be sensitive to copper sprays resulting in marginal leaf burn. Make test sprays before spraying these varieties. Crop stage: Start at flowering.
	M02	copper oxychloride	Copper Spray Fungicide 50 WP	3.0 kg	1000-1500 L/ha, see label	2	2	7 apps	3 d	Coverage: Use with lime (6.0 kg/1000 L). Crop stage: Pre-bloom and post-bloom spray volumes vary. See label. Crop safety: Do not apply on Seibel varieties.
	M02	copper oxychloride	Guardsman Copper Oxychloride 50 WP	3.0 kg/ha	1000 L/ha	2	2	7 apps	3 d	Coverage: Apply with 6 kg/ha of hydrated lime Crop stage: Pre or post bloom. Rate varies based crop stage. See label. Crop safety: Do not apply on Seibel varieties.
	M02	sulphur	Microscopic Sulphur 92 WP	3-4.5 kg/ha, see label	1000-3000 L/ha, see label	21	1	2 apps-4 apps. Pest Dependent	10 d	Crop stage: Varies based on pest. See label. Pest stage: At first sign of pest. Crop safety: Do not use on Concord, Foch, de Chaunac, Van Buren or other sulphur sensitive varieties. Can be phytotoxic to certain grape cultivars.
	M04	captan	Captan L 482 SC	3.3-5 L/ha, see label	-	8-55, see label	0.5-78, see label	1-2 apps, see label	7	Crop stage: Varies based on pest. See label.
	M04	folpet	Folpan 80 WDG	1.25 kg/ha	1000 L/ha	0.5-35	0.5-35, see label	2 apps, see label	10 d	Crop stage: Varies based on pest. See label. Pest stage: Varies based on pest. See label. Crop safety: Do not use on Concord, Foch, De Buren, or any varieties sensitive to sulphur. Recommendations: For powdery mildew, tank mix with 12.6 kg/ha of Kumulus DF
	NC	citric acid + lactic acid	Cyclone Plus SN	1.7-2%, see label	-	0	0.2, when dry	-	7-10, see label	Pest stage: Prevention or early stages. Coverage: Both sides of leaves should be covered.
	NC	garlic powder	Buran 15 SN	18 L/ha	-	0	0.5, when dry	-	7 - 14 d	

Guide to Insect and Disease Management in Wine Grape 2026

Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	NC	mineral oil	Purespray Green 13 E	10 L/ha	-	14	0.5	2 apps	7-14d; see label	Pest stage: Prevention Crop stage: Varies based on pest. See label. Crop safety: Do not tank mix oil and copper more than once/season. Do not use copper and oil together with fruit present. Do not use oil within 14 days before or after captan fungicide. Oil will remove the bloom on grapes. Coverage: Thorough coverage is essential.
	NC	potassium bicarbonate	MilStop 85 DU	2.8-5.6 kg/ha, see label	500-1000 L/ha spray volume	0	0.2	10 apps	7-14 d	Pest stage: At first sign of disease. Crop safety: Do not mix with products that are not compatible with a mildly alkaline solution
	P05	Reynoutria sachalinensis	Regalia Maxx 20 SC	0.125 – 0.25% v/v, see label	500-1500 L/ha, see label	0	0.5, when dry	0	7-14d	Pest stage: Prevention or at first sign of disease. Suppression only. Crop stage: Varies based on pest. See label.
	P05	Reynoutria sachalinensis	Regalia Rx 5 SC	5 – 10 L/ha, see label	-	0	0.5, when dry	-	7-10, see label	Crop stage: Varies based on pest. See label. Pest stage: Prevention. Suppression only.
	U13	flutianil	Gatten 50.7 EC	400-690mL/ha, see label	187-3740 L/ha, see label	14	0.5	4 apps	7 - 14 d	Crop stage: Apply to foliage during the fruiting stage.
Yellow jackets	3	cypermethrin	Ripcord 400 EC	150 ml/ha	400 L/ha (min)	2-7d see label	0.5-7, see label	2-3 see label	7	Pest stage: When threshold is reached. Crop stage: Prior to harvest. Pollinators/Beneficials: Toxic to bees and certain beneficial insects. Crop safety: Do not use on table grapes. Not all grape varieties have been tested.