

RASPBERRY GUIDE TO INSECT AND DISEASE MANAGEMENT



DISCLAIMER

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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 Raspberry Insect and Disease Guide 2026



Group	Active Ingredient	Pesticide	PCP #	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Potentially Organic	Status Update
BACTERICIDE									
24	kasugamycin	Kasumin 2L	30591	1	0.5	4 app	3	No	
FUNGICIDE									
1	thiophanate-methyl	Senator 50 SC	32096	1	0.5-1, see label	2 app, 3.08 L/ha	7	No	
1	thiophanate-methyl	Senator 70 WP	25343	1	0.5-1, see label	2 app	7	No	
1	thiophanate-methyl	Thief 50 SC	34499	-	0.5-1, see label	3.08 L	7	No	
3	myclobutanil	Nova 40 WSP	22399	6	0.5	3 app	7	No	
3	propiconazole	Propi Super 25 EC	32240	30	0.5	2 app	14	No	
3	propiconazole	Tilt 250 E	19346	3	0.5	2 app	14	No	
3	propiconazole	Bumper 432 EC	28017	30	0.5	2 app	14	No	
3	propiconazole	Fitness 418 EC	32639	30	3	-	14	No	
3	propiconazole	Princeton 418 EC	33840	30	3	-	14	No	
4	metalaxyl-M and S	Ridomil Gold 480 SL	28474	-	0.5	-	see label	No	
7	boscalid	Cantus 70 WDG	30141	0	0.5	4 app, 2.24 kg/ha	7	No	
7	boscalid	Cabil 70 WG	34638	0	0.5	4 app	7	No	
7	fluxapyroxad	Sercadis 300 SC	31697	0	0.5	3 app	7	No	
7	isofetamid	Kenja 400 SC	31758	7	0.5	3 app	7	No	
7	penthiopyrad	Fontelis 200 SC	30331	0	0.5	5 app, 5.25 L/ha	7	No	
07, 09	fluopyram + pyrimethanil	Luna Tranquility SC	30510	0	0.5	2 app	7	No	
07, 11	boscalid + pyraclostrobin	Pristine WG	27985	0	1	4 app	7	No	
07, 11	boscalid + pyraclostrobin	Empire WG	34691	0	1	4 app	7	No	
9	pyrimethanil	Scala 400 SC	28011	0	0.5	2 app	7	No	
09, 12	cyprodinil + fluodioxinil	Switch 62.5 WG	28189	1	0.5	2-3 app, see label	7	No	
11, 27	famoxadone + cymoxanil	Tanos DF	27435	9	9-11, see label	3 app	see label	No	
17	fenhexamid	Elevate 50 WDG	25900	1	0.5-1, see label	4 app	7	No	
19	polyoxin d zinc salt	Diplomat 5 SC	32918	0	0.5, when dry	2.78 L/ha	7	Yes	
21	cyazofamid	Torrent 400 SC	30392	90	0.5	2 app	see label	No	
49	oxathiapiroprolin	Orondis 100 OD	32103	1	0.5	4 app, 5.6 L/ha	7	No	
49, 04	oxathiapiroprolin + metalaxyl-M and S-isomer	Orondis Gold DC EC	35176	30	0.5	2 app	see label	No	
50	pyriofenone	Property 300 SC	32534	0	0.5	1.2 L/ha	7	No	
BM01	BLAD polypeptide	ProBlad 20 SC	31782	0	-	5 app	7	Yes	
BM01	tea tree oil	Timorex Gold 24 E	30910	2	0.2, when dry	-	7	Yes	
BM 01	Swinglea glutinosa	EcoSwing 82 SN	35206	0	0.2	10 app	7	Yes	
BM02	Bacillus amyloliquefaciens	Serifel WP	30054	0	0.2, when dry	-	7	Yes	
BM02	QST 713 strain of dried Bacillus subtilis	Serenade OPTI WP	31666	0	0.2, when dry	-	7	Yes	
M	calcium polysulphide	Lime Sulphur 30 SN	16465	-	2	-	-	Yes	
M02	copper octanoate	Cueva 1.8 SN	31825	1	0.2	15 app	7	Yes	

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M02,UN	sulphur	Microthiol Dispers 80 WP	29487	1	1	8 app	10	Yes	
M04	captan	Maestro 80 WSP	33488	2	0.5-7, see label	6 app	7	No	
M04	captan	Supra Captan 80 WSP	33641	2	0.5-7, see label	6 app	7	No	
M04	captan	Captan 480 SC	34551	8	0.5 - 7, see label	6 app	7	No	
M04	captan	Captan L 482 SC	35343	8	0.5-8, see label	6 app	7	No	
M04	captan	Sharda Captan 48 SC	32300	8	0.5-8, see label	6 app	7	No	
NC	garlic powder	Buran 15 SN	30601	0	0.5, when dry	-	-	Yes	
NC	hydrogen peroxide + peroxyacetic acid	OxiDate 2.0 SN	32907	0	0.2, when dry	8 app	5	Yes	
NC	hydrogen peroxide + peroxyacetic acid	OxiDate SN	33469	0	0.2, when dry	8 app	5	Yes	
P05	Reynoutria sachalinensis	Regalia Rx 5 SC	32350	0	0.5, when dry	-	7	Yes	
P07	fosetyl al	Aliette 80 WDG	24458	60	0.5-2, see label	4 app	21	No	
P07	mono- and dibasic sodium, potassium, and ammonium phosphites	Phostrol 53.6 LI	30449	0	0.5	4 app	21	No	
INSECTICIDE									
01A	carbaryl	Sevin XLR 43 SC	27876	11	6-10, see label	2 app	8	No	
01B	malathion	Malathion 85 E	8372	1	0.5-1, see label	2 app	10	No	
3	cypermethrin	Ship 250 EC	32563	2	0.5	3 app	7	No	
3	cypermethrin	Up-cyde 2.5 EC	28795	2	0.5	3 app	7	No	
3	fenpropathrin	Danitol 30.9 EC	33817	15	1-17, see label	2 app, 2.33 L/ha	14	No	
3	pyrethrins	Pyganic EC 1.4 II	30164	0	0.5	8 app, 37.2 L/ha	7	Yes	
4	acetamiprid	Aceta 70 WP	33298	1	0.5	4 app	7	No	
4	acetamiprid	Assail 70 WP	27128	1	0.5	4 app	7	No	
4	thiamethoxam	Actara 25 WG	28408	3	0.5	2 app	7	No	
04A	imidacloprid	Admire 240 SC	24094	4	0.5	3 app	7	No	
04D	flupyradifurone	Sivanto Prime 200 SN	31452	0	0.5	2000 mL/ha	7	No	
5	spinetoram	Delegate 25 WG	28778	1	0.5	3 app	see label	No	
5	spinosad	Entrust 240 SC	30382	1	0.5, when dry	3 app	see label	Yes	
5	spinosad	Success 480 SC	26835	1	0.5, when dry	3 app	see label	Yes	
11	bacillus thuringiensis	Bioprotec PLUS SC	32425	0	0.2	-	-	Yes	
11	Bacillus thuringiensis	Dipel 2X DF	26508	0	0.2, when dry	-	-	Yes	
11	Bacillus thuringiensis	Foray 48BA SC	24978	-	-	-	-	Yes	
18	methoxyfenozide	Intrepid 240 SC	27786	3	0.5	3 app, 2 L/ha	7	No	
23	spirotetramat	Movento 240 SC	28953	3	0.5	3 app	7	No	
28	chlorantraniliprole	Altacor 35 WG	28981	3	0.5	3 app, 645 g/ha	14	No	
28	cyantraniliprole	Exirel 100 SC	30895	1	0.5	4 app, 4.5 L/ha	5	No	
28	cyclaniliprole	Harvanta 50 SL	32889	1	0.5	3 app	5	No	
32	GS-omega/kappa-Htx-Hv1a	Spear T 2 SN	34679	0	0.2, when dry	6 app	3	Yes	
NC	kaolin clay	Surround 95 WP	27469	0	-	-	7	Yes	

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NC	potassium salt of fatty acids	Kopa 47 SN	31433	0	-	-	-	Yes	
NC	canola oil	Vegol Crop Oil 96 EC	32408	0	0.5	6 app, see label	7	Yes	
NC	mineral oil	Purespray Green 13 E	27666	-	0.5	8 app, see label	7	Yes	
MITICIDE									
6	abamectin	Agri-Mek 8.4 SC	31607	7	0.5-3, see label	5 app, 1.13 L/ha, see label	7	No	
6	abamectin	Agri-Mek 1.9 EC	24551	7	0.5-3, see label	5 L	7	No	
20B	acequinocyl	Kanemite 15 SC	28641	1	0.5	2 app	21	No	
20D	bifenazate	Acramite 50 WS	27925	1	0.5	1 app	-	No	
21	pyridaben	Nexter 75 WP	25135	-	0.5	2 app	30	No	
21, 39	fenazaquin	Magister 205 SC	34544	7	0.5-2, see label	1 app	-	No	
23	spiromesifen	Oberon 240 F	28905	3	0.5	3 app, 3480 mL/ha	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
01: DELAYED DORMANT TO GREEN TIP (buds showing green tips not more than 1 cm in length)										
Bacterial blight	BM02	QST 713 strain of dried Bacillus subtilis	Serenade OPTI WP	0.6-3.3 kg/ha, see label	-	0	0.2, when dry	-	7	Recommendations: This product provides suppression only.
Cane blight	M	calcium polysulphide	Lime Sulphur 30 SN	26 L in1000 L/ha water	-	-	2	-	-	Crop Stage: Do not apply past 1 cm green tip. Coverage: Thorough, to cane run off. Recommendations: Use to reduce over wintering inoculum.
Rust	M	calcium polysulphide	Lime Sulphur 30 SN	26 L in1000 L/ha water	-	-	2	-	-	Crop Stage: Do not apply past 1 cm green tip. Coverage: Thorough, to cane run off. Recommendations: Use to reduce over wintering inoculum.
Scale	NC	mineral oil	Purespray Green 13 E	10-20 L in 1000 L water, see label	-	-	0.5	8 app, see label	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Maximum of two dormant sprays per year if summer spray applications are expected during the growing season. Do not use within 14 days of Captan, Maestro, or copper and within 30 days of sulphur. Do not apply in hot temperatures or within 48 hours of freezing temperatures.
Spur blight	M	calcium polysulphide	Lime Sulphur 30 SN	26 L in1000 L/ha water	-	-	2	-	-	Crop Stage: Do not apply past 1 cm green tip. Coverage: Thorough, to cane run off. Recommendations: Use to reduce over wintering inoculum.
02: EARLY BUD BREAK (when blossom buds begin to separate from one another)										
Cane botrytis	11, 27	famoxadone + cymoxanil	Tanos DF	840 g/ha	250-800 L/ha	9	9-11, see label	3 app	see label	Coverage: Allow a minimum of 12 days between the first and second applications. Allow a minimum of 24 days between the second and third applications. Recommendations: Do not tank mix with or rotate with Exirel.
Phytophthora root rot	21	cyazofamid	Torrent 400 SC	0.25 L in up to 1000 L/ha water	Maximum 1000 L/ha	90	0.5	2 app	see label	Coverage: Do not use any surfactant with this soil drench application.
	49	oxathiapirolin	Orondis 100 OD	1.4-2.8 L/ha, see label	Minimum 200 L/ha	1	0.5	4 app, 5.6 L/ha	7	Crop Stage: Early spring and fall. Coverage: Directly apply to soil with a banded drench application and follow by sprinkler or drip irrigation within 24 hours to distribute the product to the root zone.
	49, 04	oxathiapirolin + metalaxyl-M and S-isomer	Orondis Gold DC EC	4.57 L/ha	Minimum 2000 L/ha	30	0.5	2 app	see label	Crop Stage: Early spring and fall. Coverage: Directly apply to soil with a banded drench application.
	P07	fosetyl al	Aliette 80 WDG	5.5 kg/ha	200-1000 L/ha	60	0.5-2, see label	4 app	21	Pest Stage: Preventative. Crop Stage: Spring - after bud break at 7 cm new growth. Fall - at least 30 days prior to leaf drop. Recommendations: Does not tank mix well with many partners.
	P07	mono- and dibasic sodium, potassium, and ammonium phosphites	Phostrol 53.6 LI	5.2 L/ha	Minimum 400 L/ha	0	0.5	4 app	21	Pest Stage: Preventative. Recommendations: Product provides suppression only. Do not mix with copper, foliar fertilizer, or surfactants.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
Raspberry cane borer	28	chlorantraniliprole	Altacor 35 WG	215-285 g/ha, see label	Minimum 500 L/ha	3	0.5	3 app, 645 g/ha	14	Pest Stage: First instar, before tunneling into the root, crown or canes. Crop Safety: Use caution when applying near bloom. Coverage: Thorough. Recommendations: Do not use products containing chlorantraniliprole in areas treated with this product during the previous season.
Root weevils	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	15	1-17, see label	2 app, 2.33 L/ha	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage important. Pollinators: Toxic to bees.
	4	thiamethoxam	Actara 25 WG	210-280 g/ha, see label	Minimum 100 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply pre-bloom or during bloom. Pollinators: Toxic to bees.
03: PRE-BLOOM (before blossoms open)										
Anthracnose	07, 11	boscalid + pyraclostrobin	Pristine WG	1.3-1.6 kg/ha, see label	-	0	1	4 app	7	Pest Stage: Preventative.
	11, 27	famoxadone + cymoxanil	Tanos DF	840 g/ha	250-800 L/ha	9	9-11, see label	3 app	see label	Coverage: Allow a minimum of 12 days between the first and second applications. Allow a minimum of 24 days between the second and third applications. Recommendations: Do not tank mix with or rotate with Exirel.
	P05	Reynoutria sachalinensis	Regalia Rx 5 SC	5-10 L/ha, see label	400-1000 L/ha	0	0.5, when dry	-	7	Pest Stage: Preventative. Recommendations: This product provides suppression only. Do not exceed a concentration of 1% v/v (10 L in 1000 L water).
Bacterial blight	M02	copper octanoate	Cueva 1.8 SN	0.5-2.0% v/v	470-940 L/ha	1	0.2	15 app	7	
Cane botrytis	11, 27	famoxadone + cymoxanil	Tanos DF	840 g/ha	250-800 L/ha	9	9-11, see label	3 app	see label	Coverage: Allow a minimum of 12 days between the first and second applications. Allow a minimum of 24 days between the second and third applications. Recommendations: Do not tank mix with or rotate with Exirel.
Clipper weevil	01B	malathion	Malathion 85 E	880-2500 mL/ha, see label	1000 L/ha	1	0.5-1, see label	2 app	10	Pollinators: Toxic to bees.
	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	15	1-17, see label	2 app, 2.33 L/ha	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage important. Pollinators: Toxic to bees.
Late yellow rust	3	myclobutanil	Nova 40 WSP	175-340 g/ha, see label	Minimum 250 L/ha	6	0.5	3 app	7	
	3	propiconazole	Bumper 432 EC	300 mL/ha	Minimum 500 L/ha	30	0.5	2 app	14	Pest Stage: At threshold.
	3	propiconazole	Propi Super 25 EC	500 mL/ha	500 L/ha	30	0.5	2 app	14	Pest Stage: At threshold.
	3	propiconazole	Tilt 250 E	500 mL/ha	500 L/ha	3	0.5	2 app	14	Pest Stage: At threshold.
	7	penthiopyrad	Fontelis 200 SC	1.0-1.75 L/ha, see label	Minimum 100 L/ha	0	0.5	5 app, 5.25 L/ha	7	Recommendations: Do not mix or rotate with oil-sensitive products like sulphur or captan - may cause phytotoxicity. Do not make more than two consecutive applications before alternating to a product from a different FRAC group.

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Leafhoppers	NC	kaolin clay	Surround 95 WP	12.5-25.0 kg/ha, see label	500 L/ha	0	-	-	7	Crop Stage: Do not use during bloom or when fruit is present. Coverage: Thorough, no run-off.
Oblique-banded leafroller	5	spinetoram	Delegate 25 WG	100-420 g/ha, see label	-	1	0.5	3 app	see label	Pest Stage: At threshold. Coverage: Contact insecticide. Thorough coverage required. Pollinators: Toxic to bees.
	5	spinosad	Entrust 240 SC	267-440 mL/ha, see label	300-500 L/ha	1	0.5, when dry	3 app	see label	Pest Stage: At threshold. Pollinators: Toxic to bees.
	5	spinosad	Success 480 SC	145-220 mL/ha, see label	300-500 L/ha	1	0.5, when dry	3 app	see label	Pest Stage: At threshold. Pollinators: Toxic to bees
	11	Bacillus thuringiensis	Dipel 2X DF	550-1125 g/ha, see label	600 L/ha	0	0.2, when dry	-	-	Pest Stage: Young larvae. Crop Stage: Pre-bloom and bloom. Coverage: Thorough. Recommendations: Do not allow spray tank to sit for more than 12 hours.
	11	Bacillus thuringiensis	Foray 48BA SC	1.4-2.8 L/ha, see label	600 L/ha	-	-	-	-	Pest Stage: Young larvae. Crop Stage: Full bloom and petal fall. Coverage: Thorough. Recommendations: Do not allow spray tank to sit for more than 18 hours.
	18	methoxyfenozide	Intrepid 240 SC	500-750 mL/ha, see label	Minimum 300 L/ha	3	0.5	3 app, 2 L/ha	7	Pest Stage: Egg hatch and small larvae. Coverage: Thorough. Recommendations: Active ingredient is persistent and will carryover. Do not use in areas treated with this product during the previous season.
Powdery mildew	1	thiophanate-methyl	Senator 50 SC	700 mL in 1000 L water	Maximum 2200 L/ha	1	0.5-1, see label	2 app, 3.08 L/ha	7	Crop Stage: Bloom. Pollinators: Toxic to bees. Recommendations: Resistance develops quickly. Rotate with products in other FRAC groups.
	1	thiophanate-methyl	Senator 70 WP	500 g in 1000 L water	Maximum 2200 L/ha	1	0.5-1, see label	2 app	7	Crop Stage: Bloom. Pollinators: Toxic to bees. Recommendations: Resistant anthracnose populations are present on some farms in Nova Scotia.
	3	myclobutanil	Nova 40 WSP	175-340 g/ha, see label	Minimum 250 L/ha	6	0.5	3 app	7	
	07, 09	fluopyram + pyrimethanil	Luna Tranquility SC	1.2 L/ha	Minimum 500 L/ha	0	0.5	2 app	7	Pest Stage: Begin preventatively. Crop Stage: Begin at 5-10% bloom. Recommendations: To extend shelf life and maximize latent disease control, apply the last application on the day of harvest.
	50	pyriofenone	Property 300 SC	300-366 mL/ha, see label	200-1000 L/ha	0	0.5	1.2 L/ha	7	Pest Stage: Preventative and as needed. Recommendations: Product provides suppression only. Do not make more than two consecutive applications before alternating to a product from a different FRAC group.

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	M02,UN	sulphur	Microthiol Dispers 80 WP	6.72-16.8 kg/ha, see label	190-560 L/ha	1	1	8 app	10	Recommendations: Do not apply if temperature will exceed 27°C and high humidity prevails within the three days following application. Do not apply under intense sunshine. Do not apply when rain or night frost is expected. Crops are most sensitive during the flowering period.
	NC	mineral oil	Purespray Green 13 E	10-20 L in 1000 L water, see label	-	-	0.5	8 app, see label	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Maximum of two dormant sprays per year if summer spray applications are expected during the growing season. Do not use within 14 days of Captan, Maestro, or copper and within 30 days of sulphur. Do not apply in hot temperatures or within 48 hours of freezing temperatures.
Root weevils	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	15	1-17, see label	2 app, 2.33 L/ha	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage important. Pollinators: Toxic to bees.
	4	thiamethoxam	Actara 25 WG	210-280 g/ha, see label	Minimum 100 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply pre-bloom or during bloom. Pollinators: Toxic to bees.
Rust	3	propiconazole	Bumper 432 EC	300 mL/ha	Minimum 500 L/ha	30	0.5	2 app	14	Pest Stage: At threshold.
	3	propiconazole	Tilt 250 E	500 mL/ha	500 L/ha	3	0.5	2 app	14	Pest Stage: At threshold.
Spur blight	11, 27	famoxadone + cymoxanil	Tanos DF	840 g/ha	250-800 L/ha	9	9-11, see label	3 app	see label	Coverage: Allow a minimum of 12 days between the first and second applications. Allow a minimum of 24 days between the second and third applications. Recommendations: Do not tank mix with or rotate with Exirel.
Two-spotted spider mite	6	abamectin	Agri-Mek 8.4 SC	225 mL/ha	Minimum 375 L/ha	7	0.5-3, see label	5 app, 1.13 L/ha, see label	7	Pest Stage: At threshold. Crop Stage: Pre- and post-harvest. Do not apply during bloom. Coverage: Use a non-ionic surfactant at 0.1-0.5% v/v. Pollinators: Toxic to bees.
	20B	acequinocyl	Kanemite 15 SC	2.07 L/ha	470-1870 L/ha	1	0.5	2 app	21	Pest Stage: At threshold. Coverage: Thorough, to drip.
	20D	bifenazate	Acramite 50 WS	851 g/ha	Minimum 500 L/ha	1	0.5	1 app	-	Pest Stage: Most effective on motile stage. Coverage: Thorough, including underside of leaves.
	21, 39	fenazaquin	Magister 205 SC	1.75-2.34 L/ha, see label	Minimum 500 L/ha	7	0.5-2, see label	1 app	-	Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees.
	23	spiromesifen	Oberon 240 F	880-1160 mL/ha, see label	Minimum 100 L/ha	3	0.5	3 app, 3480 mL/ha	7	Coverage: Thorough. Pollinators: May be toxic to bee brood
	NC	canola oil	Vegol Crop Oil 96 EC	2% v/v	700-1900 L/ha	0	0.5	6 app, see label	7	Coverage: Thorough. Do not apply to wet foliage. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use within 14 days of Captan or Maestro or within 30 days of sulphur. Do not apply in extreme high or freezing temperatures.

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	NC	mineral oil	Purespray Green 13 E	10-20 L in 1000 L water, see label	-	-	0.5	8 app, see label	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Maximum of two dormant sprays per year if summer spray applications are expected during the growing season. Do not use within 14 days of Captan, Maestro, or copper and within 30 days of sulphur. Do not apply in hot temperatures or within 48 hours of freezing temperatures.
04: BLOOM										
Botrytis grey mould	1	thiophanate-methyl	Senator 50 SC	700 mL in 1000 L water	Maximum 2200 L/ha	1	0.5-1, see label	2 app, 3.08 L/ha	7	Crop Stage: Bloom. Pollinators: Toxic to bees. Recommendations: Resistance develops quickly. Rotate with products in other FRAC groups.
	7	boscalid	Cantus 70 WDG	560 g/ha	Minimum 100 L/ha	0	0.5	4 app, 2.24 kg/ha	7	Pest Stage: Begin preventatively. Crop Stage: Begin at bloom. Apply repeat applications if wet conditions persist. Recommendations: Rotate to a different FRAC group after one application.
	7	fluxapyroxad	Sercadis 300 SC	250-666 mL/ha, see label	Minimum 100 L/ha	0	0.5	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	7	isofetamid	Kenja 400 SC	0.987-1.24 L/ha, see label	200-1000 L/ha	7	0.5	3 app	7	Pest Stage: Begin preventatively. Crop Stage: Begin at 5-10% bloom. Recommendations: Apply repeat applications if wet conditions persist. Recommendations: Rotate to a different FRAC group after one application.
	07, 09	fluopyram + pyrimethanil	Luna Tranquility SC	1.2 L/ha	Minimum 500 L/ha	0	0.5	2 app	7	Pest Stage: Begin preventatively. Crop Stage: Begin at 5-10% bloom. Recommendations: To extend shelf life and maximize latent disease control, apply the last application on the day of harvest.
	07, 11	boscalid + pyraclostrobin	Pristine WG	1.3-1.6 kg/ha, see label	-	0	1	4 app	7	Pest Stage: Preventative.
	9	pyrimethanil	Scala 400 SC	2.0 L/ha	Minimum 1000 L/ha	0	0.5	2 app	7	Pest Stage: Begin preventatively. Crop Stage: Begin at early flowering and continue through bloom period. If wet conditions persist, spray through fruit maturity, rotating with products from other FRAC groups. Coverage: Thorough coverage of blossoms.
	09, 12	cyprodinil + fluodioxinil	Switch 62.5 WG	775-975 g/ha, see label	Minimum 200 L/ha	1	0.5	2-3 app, see label	7	Crop Stage: Begin at 5% bloom and continue application if wet conditions persist. Recommendations: Do not make more than two consecutive applications. Product has a persistent active ingredient that may carryover. Products containing fluodioxinil should not be used in areas treated with this product during the previous season.
	11, 27	famoxadone + cymoxanil	Tanos DF	840 g/ha	250-800 L/ha	9	9-11, see label	3 app	see label	Coverage: Allow a minimum of 12 days between the first and second applications. Allow a minimum of 24 days between the second and third applications. Recommendations: Do not tank mix with or rotate with Exirel.
	17	fenhexamid	Elevate 50 WDG	1.7 kg/ha	500-1500 L/ha	1	0.5-1, see label	4 app	7	Crop Stage: Begin application at 10% bloom. Recommendations: Apply repeat applications if wet conditions persist.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	19	polyoxin d zinc salt	Diplomat 5 SC	463-926 mL/ha, see label	-	0	0.5, when dry	2.78 L/ha	7	Pest Stage: Begin preventatively. Coverage: Thorough, minimal run-off. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	BM01	BLAD polypeptide	ProBlad 20 SC	2.0-3.3 L/ha, see label	Minimum 800 L/ha	0	-	5 app	7	Pest Stage: Preventative or early onset. Recommendations: Maintain agitation throughout application. Do not make more than two sequential applications before alternating to a product from a different FRAC group. Use in combination with products in other FRAC groups for additional control.
	BM01	tea tree oil	Timorex Gold 24 E	1.5-2.0 L/ha, see label	400-1200 L/ha	2	0.2, when dry	-	7	Pest Stage: Preventative. Coverage: Thorough, to run-off.
	BM 01	Swinglea glutinosa	EcoSwing 82 SN	1.75-2.35 L/ha, see label	Greenhouse only: 1.88-2.5 mL/L, see label	0	0.2	10 app	7	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	250-500 g/ha, see label	-	0	0.2, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only.
	BM02	QST 713 strain of dried Bacillus subtilis	Serenade OPTI WP	0.6-3.3 kg/ha, see label	-	0	0.2, when dry	-	7	Recommendations: This product provides suppression only.
	M04	captan	Captan 480 SC	4.15 L/ha	1000 L/ha	8	0.5 - 7, see label	6 app	7	Pest stage: Prevention Coverage: Do not apply by air
	M04	captan	Captan L 482 SC	4.15 L/ha	1000 L/ha	8	0.5-8, see label	6 app	7	Pest Stage: Preventative.
	M04	captan	Maestro 80 WSP	2.5 kg/ha	1000 L/ha	2	0.5-7, see label	6 app	7	Pest Stage: Preventative. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with Exirel, Fontelis, or Timorex Gold. If product is in a water soluble pouch, do not dissolve in water containing boron.
	M04	captan	Sharda Captan 48 SC	4.17 L/ha	1000 L/ha	8	0.5-8, see label	6 app	7	Pest Stage: Preventative.
	M04	captan	Supra Captan 80 WSP	2.5 kg/ha	1000 L/ha	2	0.5-7, see label	6 app	7	Pest Stage: Preventative. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with Exirel, Fontelis, or Timorex Gold. If product is in a water soluble pouch, do not dissolve in water containing boron.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate 2.0 SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Preventative or early onset. Product does not have activity on infected tissue but prevents spread of disease to susceptible tissue. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Product should be combined with a residual product for full coverage.

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 SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Preventative or early onset. Product does not have activity on infected tissue but prevents spread of disease to susceptible tissue. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Product should be combined with a residual product for full coverage.
	P05	Reynoutria sachalinensis	Regalia Rx 5 SC	5-10 L/ha, see label	400-1000 L/ha	0	0.5, when dry	-	7	Pest Stage: Preventative. Recommendations: This product provides suppression only. Do not exceed a concentration of 1% v/v (10 L in 1000 L water).
Cane botrytis	11, 27	famoxadone + cymoxanil	Tanos DF	840 g/ha	250-800 L/ha	9	9-11, see label	3 app	see label	Coverage: Allow a minimum of 12 days between the first and second applications. Allow a minimum of 24 days between the second and third applications. Recommendations: Do not tank mix with or rotate with Exirel.
Fireblight	24	kasugamycin	Kasumin 2L	5.0 L/ha	1000 L/ha	1	0.5	4 app	3	Crop Stage: Begin at start of bloom and continue throughout bloom period. Repeat applications every 3-4 days under warm, wet conditions or every 5-7 days under cool conditions. Recommendations: Do not make more than two sequential applications before alternating to a product from a different FRAC group.
	NC	garlic powder	Buran 15 SN	1.4% v/v	500-800 L/ha	0	0.5, when dry	-	-	Pest Stage: Apply before wetting events when conditions are conducive to infection. Coverage: Use a non-ionic surfactant at 0.1% v/v. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate 2.0 SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Preventative or early onset. Product does not have activity on infected tissue but prevents spread of disease to susceptible tissue. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Product should be combined with a residual product for full coverage.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Preventative or early onset. Product does not have activity on infected tissue but prevents spread of disease to susceptible tissue. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Product should be combined with a residual product for full coverage.
Leafhoppers	NC	kaolin clay	Surround 95 WP	12.5-25.0 kg/ha, see label	500 L/ha	0	-	-	7	Crop Stage: Do not use during bloom or when fruit is present. Coverage: Thorough, no run-off.
Oblique-banded leafroller	5	spinetoram	Delegate 25 WG	100-420 g/ha, see label	-	1	0.5	3 app	see label	Pest Stage: At threshold. Coverage: Contact insecticide. Thorough coverage required. Pollinators: Toxic to bees.
	5	spinosad	Entrust 240 SC	267-440 mL/ha, see label	300-500 L/ha	1	0.5, when dry	3 app	see label	Pest Stage: At threshold. Pollinators: Toxic to bees.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	5	spinosad	Success 480 SC	145-220 mL/ha, see label	300-500 L/ha	1	0.5, when dry	3 app	see label	Pest Stage: At threshold. Pollinators: Toxic to bees
	11	Bacillus thuringiensis	Dipel 2X DF	550-1125 g/ha, see label	600 L/ha	0	0.2, when dry	-	-	Pest Stage: Young larvae. Crop Stage: Pre-bloom and bloom. Coverage: Thorough. Recommendations: Do not allow spray tank to sit for more than 12 hours.
	11	Bacillus thuringiensis	Foray 48BA SC	1.4-2.8 L/ha, see label	600 L/ha	-	-	-	-	Pest Stage: Young larvae. Crop Stage: Full bloom and petal fall. Coverage: Thorough. Recommendations: Do not allow spray tank to sit for more than 18 hours.
	18	methoxyfenozide	Intrepid 240 SC	500-750 mL/ha, see label	Minimum 300 L/ha	3	0.5	3 app, 2 L/ha	7	Pest Stage: Egg hatch and small larvae. Coverage: Thorough. Recommendations: Active ingredient is persistent and will carryover. Do not use in areas treated with this product during the previous season.
Powdery mildew	1	thiophanate-methyl	Senator 70 WP	500 g in 1000 L water	Maximum 2200 L/ha	1	0.5-1, see label	2 app	7	Crop Stage: Bloom. Pollinators: Toxic to bees. Recommendations: Resistant anthracnose populations are present on some farms in Nova Scotia.
	3	myclobutanil	Nova 40 WSP	175-340 g/ha, see label	Minimum 250 L/ha	6	0.5	3 app	7	
	07, 09	fluopyram + pyrimethanil	Luna Tranquility SC	1.2 L/ha	Minimum 500 L/ha	0	0.5	2 app	7	Pest Stage: Begin preventatively. Crop Stage: Begin at 5-10% bloom. Recommendations: To extend shelf life and maximize latent disease control, apply the last application on the day of harvest.
	50	pyriofenone	Property 300 SC	300-366 mL/ha, see label	200-1000 L/ha	0	0.5	1.2 L/ha	7	Pest Stage: Preventative and as needed. Recommendations: Product provides suppression only. Do not make more than two consecutive applications before alternating to a product from a different FRAC group.
	M02,UN	sulphur	Microthiol Dispers 80 WP	6.72-16.8 kg/ha, see label	190-560 L/ha	1	1	8 app	10	Recommendations: Do not apply if temperature will exceed 27°C and high humidity prevails within the three days following application. Do not apply under intense sunshine. Do not apply when rain or night frost is expected. Crops are most sensitive during the flowering period.
Root weevils	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	15	1-17, see label	2 app, 2.33 L/ha	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage important. Pollinators: Toxic to bees.
	4	thiamethoxam	Actara 25 WG	210-280 g/ha, see label	Minimum 100 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply pre-bloom or during bloom. Pollinators: Toxic to bees.
05: POST-BLOOM/GREEN FRUIT										
Aphids	01A	carbaryl	Sevin XLR 43 SC	5.25 L/ha	1000-2000 L/ha	11	6-10, see label	2 app	8	Pest Stage: At threshold. Crop Stage: Do not apply during bloom period. Pollinators: Toxic to bees.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	3	pyrethrins	Pyganic EC 1.4 II	2.32-4.65 L/ha, see label	-	0	0.5	8 app, 37.2 L/ha	7	Pest Stage: At threshold. Crop Stage: Do not apply during bloom period. Coverage: Adjust spray tank pH to 5.5-7.0 and apply directly after mixing. Pollinators: Toxic to bees. Recommendations: Do not use in temperatures above 27°C.
	4	acetamiprid	Aceta 70 WP	56-86 g/ha, see label	Minimum 187 L/ha	1	0.5	4 app	7	Pest Stage: At threshold. Pollinators: Toxic to bees.
	4	acetamiprid	Assail 70 WP	56-86 g/ha, see label	Minimum 187 L/ha	1	0.5	4 app	7	Pest Stage: At threshold. Pollinators: Toxic to bees.
	04A	imidacloprid	Admire 240 SC	175-467 mL/ha, see label	200 L/ha	4	0.5	3 app	7	Crop Stage: Do not apply until petal fall. Pollinators: Toxic to bees. Recommendations: Product provides suppression only.
	04D	flupyradifurone	Sivanto Prime 200 SN	500-750 mL/ha, see label	Minimum 100 L/ha	0	0.5	2000 mL/ha	7	Pollinators: Toxic to some bees.
	NC	canola oil	Vegol Crop Oil 96 EC	2% v/v	700-1900 L/ha	0	0.5	6 app, see label	7	Coverage: Thorough. Do not apply to wet foliage. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use within 14 days of Captan or Maestro or within 30 days of sulphur. Do not apply in extreme high or freezing temperatures.
	NC	mineral oil	Purespray Green 13 E	10-20 L in 1000 L water, see label	-	-	0.5	8 app, see label	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Maximum of two dormant sprays per year if summer spray applications are expected during the growing season. Do not use within 14 days of Captan, Maestro, or copper and within 30 days of sulphur. Do not apply in hot temperatures or within 48 hours of freezing temperatures.
Botrytis grey mould	1	thiophanate-methyl	Senator 50 SC	700 mL in 1000 L water	Maximum 2200 L/ha	1	0.5-1, see label	2 app, 3.08 L/ha	7	Crop Stage: Bloom. Pollinators: Toxic to bees. Recommendations: Resistance develops quickly. Rotate with products in other FRAC groups.
	7	boscalid	Cantus 70 WDG	560 g/ha	Minimum 100 L/ha	0	0.5	4 app, 2.24 kg/ha	7	Pest Stage: Begin preventatively. Crop Stage: Begin at bloom. Apply repeat applications if wet conditions persist. Recommendations: Rotate to a different FRAC group after one application.
	7	fluxapyroxad	Sercadis 300 SC	250-666 mL/ha, see label	Minimum 100 L/ha	0	0.5	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	7	isofetamid	Kenja 400 SC	0.987-1.24 L/ha, see label	200-1000 L/ha	7	0.5	3 app	7	Pest Stage: Begin preventatively. Crop Stage: Begin at 5-10% bloom. Recommendations: Apply repeat applications if wet conditions persist. Recommendations: Rotate to a different FRAC group after one application.
	07, 09	fluopyram + pyrimethanil	Luna Tranquility SC	1.2 L/ha	Minimum 500 L/ha	0	0.5	2 app	7	Pest Stage: Begin preventatively. Crop Stage: Begin at 5-10% bloom. Recommendations: To extend shelf life and maximize latent disease control, apply the last application on the day of harvest.

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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	1.3-1.6 kg/ha, see label	-	0	1	4 app	7	Pest Stage: Preventative.
	9	pyrimethanil	Scala 400 SC	2.0 L/ha	Minimum 1000 L/ha	0	0.5	2 app	7	Pest Stage: Begin preventatively. Crop Stage: Begin at early flowering and continue through bloom period. If wet conditions persist, spray through fruit maturity, rotating with products from other FRAC groups. Coverage: Thorough coverage of blossoms.
	09, 12	cyprodinil + fludioxonil	Switch 62.5 WG	775-975 g/ha, see label	Minimum 200 L/ha	1	0.5	2-3 app, see label	7	Crop Stage: Begin at 5% bloom and continue application if wet conditions persist. Recommendations: Do not make more than two consecutive applications. Product has a persistent active ingredient that may carryover. Products containing fludioxonil should not be used in areas treated with this product during the previous season.
	11, 27	famoxadone + cymoxanil	Tanos DF	840 g/ha	250-800 L/ha	9	9-11, see label	3 app	see label	Coverage: Allow a minimum of 12 days between the first and second applications. Allow a minimum of 24 days between the second and third applications. Recommendations: Do not tank mix with or rotate with Exirel.
	17	fenhexamid	Elevate 50 WDG	1.7 kg/ha	500-1500 L/ha	1	0.5-1, see label	4 app	7	Crop Stage: Begin application at 10% bloom. Recommendations: Apply repeat applications if wet conditions persist.
	19	polyoxin d zinc salt	Diplomat 5 SC	463-926 mL/ha, see label	-	0	0.5, when dry	2.78 L/ha	7	Pest Stage: Begin preventatively. Coverage: Thorough, minimal run-off. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	BM01	BLAD polypeptide	ProBlad 20 SC	2.0-3.3 L/ha, see label	Minimum 800 L/ha	0	-	5 app	7	Pest Stage: Preventative or early onset. Recommendations: Maintain agitation throughout application. Do not make more than two sequential applications before alternating to a product from a different FRAC group. Use in combination with products in other FRAC groups for additional control.
	BM01	tea tree oil	Timorex Gold 24 E	1.5-2.0 L/ha, see label	400-1200 L/ha	2	0.2, when dry	-	7	Pest Stage: Preventative. Coverage: Thorough, to run-off.
	BM 01	Swinglea glutinosa	EcoSwing 82 SN	1.75-2.35 L/ha, see label	Greenhouse only: 1.88-2.5 mL/L, see label	0	0.2	10 app	7	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	250-500 g/ha, see label	-	0	0.2, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only.
	BM02	QST 713 strain of dried Bacillus subtilis	Serenade OPTI WP	0.6-3.3 kg/ha, see label	-	0	0.2, when dry	-	7	Recommendations: This product provides suppression only.
	M04	captan	Captan 480 SC	4.15 L/ha	1000 L/ha	8	0.5 - 7, see label	6 app	7	Pest stage: Prevention Coverage: Do not apply by air
	M04	captan	Captan L 482 SC	4.15 L/ha	1000 L/ha	8	0.5-8, see label	6 app	7	Pest Stage: Preventative.

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	M04	captan	Maestro 80 WSP	2.5 kg/ha	1000 L/ha	2	0.5-7, see label	6 app	7	Pest Stage: Preventative. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with Exirel, Fontelis, or Timorex Gold. If product is in a water soluble pouch, do not dissolve in water containing boron.
	M04	captan	Sharda Captan 48 SC	4.17 L/ha	1000 L/ha	8	0.5-8, see label	6 app	7	Pest Stage: Preventative.
	M04	captan	Supra Captan 80 WSP	2.5 kg/ha	1000 L/ha	2	0.5-7, see label	6 app	7	Pest Stage: Preventative. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with Exirel, Fontelis, or Timorex Gold. If product is in a water soluble pouch, do not dissolve in water containing boron.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate 2.0 SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Preventative or early onset. Product does not have activity on infected tissue but prevents spread of disease to susceptible tissue. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Product should be combined with a residual product for full coverage.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Preventative or early onset. Product does not have activity on infected tissue but prevents spread of disease to susceptible tissue. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Product should be combined with a residual product for full coverage.
	P05	Reynoutria sachalinensis	Regalia Rx 5 SC	5-10 L/ha, see label	400-1000 L/ha	0	0.5, when dry	-	7	Pest Stage: Preventative. Recommendations: This product provides suppression only. Do not exceed a concentration of 1% v/v (10 L in 1000 L water).
Cane botrytis	11, 27	famoxadone + cymoxanil	Tanos DF	840 g/ha	250-800 L/ha	9	9-11, see label	3 app	see label	Coverage: Allow a minimum of 12 days between the first and second applications. Allow a minimum of 24 days between the second and third applications. Recommendations: Do not tank mix with or rotate with Exirel.
Japanese beetle	01A	carbaryl	Sevin XLR 43 SC	5.25 L/ha	1000-2000 L/ha	11	6-10, see label	2 app	8	Pest Stage: At threshold. Crop Stage: Do not apply during bloom period. Pollinators: Toxic to bees.
Leafhoppers	NC	kaolin clay	Surround 95 WP	12.5-25.0 kg/ha, see label	500 L/ha	0	-	-	7	Crop Stage: Do not use during bloom or when fruit is present. Coverage: Thorough, no run-off.
Leafminers	01A	carbaryl	Sevin XLR 43 SC	5.25 L/ha	1000-2000 L/ha	11	6-10, see label	2 app	8	Pest Stage: At threshold. Crop Stage: Do not apply during bloom period. Pollinators: Toxic to bees.
Leafrollers	01A	carbaryl	Sevin XLR 43 SC	5.25 L/ha	1000-2000 L/ha	11	6-10, see label	2 app	8	Pest Stage: At threshold. Crop Stage: Do not apply during bloom period. Pollinators: Toxic to bees.
Oblique-banded leafroller	5	spinetoram	Delegate 25 WG	100-420 g/ha, see label	-	1	0.5	3 app	see label	Pest Stage: At threshold. Coverage: Contact insecticide. Thorough coverage required. Pollinators: Toxic to bees.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	5	spinosad	Entrust 240 SC	267-440 mL/ha, see label	300-500 L/ha	1	0.5, when dry	3 app	see label	Pest Stage: At threshold. Pollinators: Toxic to bees.
	5	spinosad	Success 480 SC	145-220 mL/ha, see label	300-500 L/ha	1	0.5, when dry	3 app	see label	Pest Stage: At threshold. Pollinators: Toxic to bees
	11	Bacillus thuringiensis	Dipel 2X DF	550-1125 g/ha, see label	600 L/ha	0	0.2, when dry	-	-	Pest Stage: Young larvae. Crop Stage: Pre-bloom and bloom. Coverage: Thorough. Recommendations: Do not allow spray tank to sit for more than 12 hours.
	11	Bacillus thuringiensis	Foray 48BA SC	1.4-2.8 L/ha, see label	600 L/ha	-	-	-	-	Pest Stage: Young larvae. Crop Stage: Full bloom and petal fall. Coverage: Thorough. Recommendations: Do not allow spray tank to sit for more than 18 hours.
	18	methoxyfenozide	Intrepid 240 SC	500-750 mL/ha, see label	Minimum 300 L/ha	3	0.5	3 app, 2 L/ha	7	Pest Stage: Egg hatch and small larvae. Coverage: Thorough. Recommendations: Active ingredient is persistent and will carryover. Do not use in areas treated with this product during the previous season.
Powdery mildew	1	thiophanate-methyl	Senator 70 WP	500 g in 1000 L water	Maximum 2200 L/ha	1	0.5-1, see label	2 app	7	Crop Stage: Bloom. Pollinators: Toxic to bees. Recommendations: Resistant anthracnose populations are present on some farms in Nova Scotia.
	3	myclobutanil	Nova 40 WSP	175-340 g/ha, see label	Minimum 250 L/ha	6	0.5	3 app	7	
	07, 09	fluopyram + pyrimethanil	Luna Tranquility SC	1.2 L/ha	Minimum 500 L/ha	0	0.5	2 app	7	Pest Stage: Begin preventatively. Crop Stage: Begin at 5-10% bloom. Recommendations: To extend shelf life and maximize latent disease control, apply the last application on the day of harvest.
	50	pyriofenone	Property 300 SC	300-366 mL/ha, see label	200-1000 L/ha	0	0.5	1.2 L/ha	7	Pest Stage: Preventative and as needed. Recommendations: Product provides suppression only. Do not make more than two consecutive applications before alternating to a product from a different FRAC group.
	M02,UN	sulphur	Microthiol Dispers 80 WP	6.72-16.8 kg/ha, see label	190-560 L/ha	1	1	8 app	10	Recommendations: Do not apply if temperature will exceed 27°C and high humidity prevails within the three days following application. Do not apply under intense sunshine. Do not apply when rain or night frost is expected. Crops are most sensitive during the flowering period.
Raspberry cane borer	04A	imidacloprid	Admire 240 SC	175-467 mL/ha, see label	200 L/ha	4	0.5	3 app	7	Crop Stage: Do not apply until petal fall. Pollinators: Toxic to bees. Recommendations: Product provides suppression only.
	28	chlorantraniliprole	Altacor 35 WG	215-285 g/ha, see label	Minimum 500 L/ha	3	0.5	3 app, 645 g/ha	14	Pest Stage: First instar, before tunneling into the root, crown or canes. Crop Safety: Use caution when applying near bloom. Coverage: Thorough. Recommendations: Do not use products containing chlorantraniliprole in areas treated with this product during the previous season.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
Root weevils	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	15	1-17, see label	2 app, 2.33 L/ha	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage important. Pollinators: Toxic to bees.
	4	thiamethoxam	Actara 25 WG	210-280 g/ha, see label	Minimum 100 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply pre-bloom or during bloom. Pollinators: Toxic to bees.
Rose stem girdler	01A	carbaryl	Sevin XLR 43 SC	5.25 L/ha	1000-2000 L/ha	11	6-10, see label	2 app	8	Pest Stage: At threshold. Crop Stage: Do not apply during bloom period. Pollinators: Toxic to bees.
Two-spotted spider mite	6	abamectin	Agri-Mek 8.4 SC	225 mL/ha	Minimum 375 L/ha	7	0.5-3, see label	5 app, 1.13 L/ha, see label	7	Pest Stage: At threshold. Crop Stage: Pre- and post-harvest. Do not apply during bloom. Coverage: Use a non-ionic surfactant at 0.1-0.5% v/v. Pollinators: Toxic to bees.
	20B	acequinocyl	Kanemite 15 SC	2.07 L/ha	470-1870 L/ha	1	0.5	2 app	21	Pest Stage: At threshold. Coverage: Thorough, to drip.
	20D	bifenazate	Acramite 50 WS	851 g/ha	Minimum 500 L/ha	1	0.5	1 app	-	Pest Stage: Most effective on motile stage. Coverage: Thorough, including underside of leaves.
	21, 39	fenazaquin	Magister 205 SC	1.75-2.34 L/ha, see label	Minimum 500 L/ha	7	0.5-2, see label	1 app	-	Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees.
	NC	canola oil	Vegol Crop Oil 96 EC	2% v/v	700-1900 L/ha	0	0.5	6 app, see label	7	Coverage: Thorough. Do not apply to wet foliage. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use within 14 days of Captan or Maestro or within 30 days of sulphur. Do not apply in extreme high or freezing temperatures.
	NC	mineral oil	Purespray Green 13 E	10-20 L in 1000 L water, see label	-	-	0.5	8 app, see label	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Maximum of two dormant sprays per year if summer spray applications are expected during the growing season. Do not use within 14 days of Captan, Maestro, or copper and within 30 days of sulphur. Do not apply in hot temperatures or within 48 hours of freezing temperatures.
06: PRE-HARVEST										
Aphids	4	acetamiprid	Assail 70 WP	56-86 g/ha, see label	Minimum 187 L/ha	1	0.5	4 app	7	Pest Stage: At threshold. Pollinators: Toxic to bees.
	23	spirotetramat	Movento 240 SC	220-365 mL/ha, see label	Minimum 300 L/ha	3	0.5	3 app	7	Crop Stage: Post-bloom. Pollinators: Toxic to bee brood.
Botrytis grey mould	1	thiophanate-methyl	Senator 50 SC	700 mL in 1000 L water	Maximum 2200 L/ha	1	0.5-1, see label	2 app, 3.08 L/ha	7	Crop Stage: Bloom. Pollinators: Toxic to bees. Recommendations: Resistance develops quickly. Rotate with products in other FRAC groups.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	7	boscalid	Cantus 70 WDG	560 g/ha	Minimum 100 L/ha	0	0.5	4 app, 2.24 kg/ha	7	Pest Stage: Begin preventatively. Crop Stage: Begin at bloom. Apply repeat applications if wet conditions persist. Recommendations: Rotate to a different FRAC group after one application.
	7	fluxapyroxad	Sercadis 300 SC	250-666 mL/ha, see label	Minimum 100 L/ha	0	0.5	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	7	isofetamid	Kenja 400 SC	0.987-1.24 L/ha, see label	200-1000 L/ha	7	0.5	3 app	7	Pest Stage: Begin preventatively. Crop Stage: Begin at 5-10% bloom. Recommendations: Apply repeat applications if wet conditions persist. Recommendations: Rotate to a different FRAC group after one application.
	07, 09	fluopyram + pyrimethanil	Luna Tranquility SC	1.2 L/ha	Minimum 500 L/ha	0	0.5	2 app	7	Pest Stage: Begin preventatively. Crop Stage: Begin at 5-10% bloom. Recommendations: To extend shelf life and maximize latent disease control, apply the last application on the day of harvest.
	07, 11	boscalid + pyraclostrobin	Pristine WG	1.3-1.6 kg/ha, see label	-	0	1	4 app	7	Pest Stage: Preventative.
	9	pyrimethanil	Scala 400 SC	2.0 L/ha	Minimum 1000 L/ha	0	0.5	2 app	7	Pest Stage: Begin preventatively. Crop Stage: Begin at early flowering and continue through bloom period. If wet conditions persist, spray through fruit maturity, rotating with products from other FRAC groups. Coverage: Thorough coverage of blossoms.
	09, 12	cyprodinil + fluodioxinil	Switch 62.5 WG	775-975 g/ha, see label	Minimum 200 L/ha	1	0.5	2-3 app, see label	7	Crop Stage: Begin at 5% bloom and continue application if wet conditions persist. Recommendations: Do not make more than two consecutive applications. Product has a persistent active ingredient that may carryover. Products containing fluodioxinil should not be used in areas treated with this product during the previous season.
	11, 27	famoxadone + cymoxanil	Tanos DF	840 g/ha	250-800 L/ha	9	9-11, see label	3 app	see label	Coverage: Allow a minimum of 12 days between the first and second applications. Allow a minimum of 24 days between the second and third applications. Recommendations: Do not tank mix with or rotate with Exirel.
	17	fenhexamid	Elevate 50 WDG	1.7 kg/ha	500-1500 L/ha	1	0.5-1, see label	4 app	7	Crop Stage: Begin application at 10% bloom. Recommendations: Apply repeat applications if wet conditions persist.
	19	polyoxin d zinc salt	Diplomat 5 SC	463-926 mL/ha, see label	-	0	0.5, when dry	2.78 L/ha	7	Pest Stage: Begin preventatively. Coverage: Thorough, minimal run-off. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	BM01	BLAD polypeptide	ProBlad 20 SC	2.0-3.3 L/ha, see label	Minimum 800 L/ha	0	-	5 app	7	Pest Stage: Preventative or early onset. Recommendations: Maintain agitation throughout application. Do not make more than two sequential applications before alternating to a product from a different FRAC group. Use in combination with products in other FRAC groups for additional control.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	BM01	tea tree oil	Timorex Gold 24 E	1.5-2.0 L/ha, see label	400-1200 L/ha	2	0.2, when dry	-	7	Pest Stage: Preventative. Coverage: Thorough, to run-off.
	BM02	Bacillus amyloliquefaciens	Serifel WP	250-500 g/ha, see label	-	0	0.2, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only.
	BM02	QST 713 strain of dried Bacillus subtilis	Serenade OPTI WP	0.6-3.3 kg/ha, see label	-	0	0.2, when dry	-	7	Recommendations: This product provides suppression only.
	M04	captan	Captan 480 SC	4.15 L/ha	1000 L/ha	8	0.5 - 7, see label	6 app	7	Pest stage: Prevention Coverage: Do not apply by air
	M04	captan	Captan L 482 SC	4.15 L/ha	1000 L/ha	8	0.5-8, see label	6 app	7	Pest Stage: Preventative.
	M04	captan	Maestro 80 WSP	2.5 kg/ha	1000 L/ha	2	0.5-7, see label	6 app	7	Pest Stage: Preventative. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with Exirel, Fontelis, or Timorex Gold. If product is in a water soluble pouch, do not dissolve in water containing boron.
	M04	captan	Sharda Captan 48 SC	4.17 L/ha	1000 L/ha	8	0.5-8, see label	6 app	7	Pest Stage: Preventative.
	M04	captan	Supra Captan 80 WSP	2.5 kg/ha	1000 L/ha	2	0.5-7, see label	6 app	7	Pest Stage: Preventative. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with Exirel, Fontelis, or Timorex Gold. If product is in a water soluble pouch, do not dissolve in water containing boron.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate 2.0 SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Preventative or early onset. Product does not have activity on infected tissue but prevents spread of disease to susceptible tissue. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Product should be combined with a residual product for full coverage.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Preventative or early onset. Product does not have activity on infected tissue but prevents spread of disease to susceptible tissue. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Product should be combined with a residual product for full coverage.
	P05	Reynoutria sachalinensis	Regalia Rx 5 SC	5-10 L/ha, see label	400-1000 L/ha	0	0.5, when dry	-	7	Pest Stage: Preventative. Recommendations: This product provides suppression only. Do not exceed a concentration of 1% v/v (10 L in 1000 L water).
Cane botrytis	11, 27	famoxadone + cymoxanil	Tanos DF	840 g/ha	250-800 L/ha	9	9-11, see label	3 app	see label	Coverage: Allow a minimum of 12 days between the first and second applications. Allow a minimum of 24 days between the second and third applications. Recommendations: Do not tank mix with or rotate with Exirel.
Leafhoppers	01B	malathion	Malathion 85 E	880-2500 mL/ha, see label	1000 L/ha	1	0.5-1, see label	2 app	10	Pollinators: Toxic to bees.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	15	1-17, see label	2 app, 2.33 L/ha	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage important. Pollinators: Toxic to bees.
	3	pyrethrins	Pyganic EC 1.4 II	2.32-4.65 L/ha, see label	-	0	0.5	8 app, 37.2 L/ha	7	Pest Stage: At threshold. Crop Stage: Do not apply during bloom period. Coverage: Adjust spray tank pH to 5.5-7.0 and apply directly after mixing. Pollinators: Toxic to bees. Recommendations: Do not use in temperatures above 27°C.
	4	acetamiprid	Aceta 70 WP	56-86 g/ha, see label	Minimum 187 L/ha	1	0.5	4 app	7	Pest Stage: At threshold. Pollinators: Toxic to bees.
	4	acetamiprid	Assail 70 WP	56-86 g/ha, see label	Minimum 187 L/ha	1	0.5	4 app	7	Pest Stage: At threshold. Pollinators: Toxic to bees.
	04A	imidacloprid	Admire 240 SC	175-467 mL/ha, see label	200 L/ha	4	0.5	3 app	7	Crop Stage: Do not apply until petal fall. Pollinators: Toxic to bees. Recommendations: Product provides suppression only.
	NC	kaolin clay	Surround 95 WP	12.5-25.0 kg/ha, see label	500 L/ha	0	-	-	7	Crop Stage: Do not use during bloom or when fruit is present. Coverage: Thorough, no run-off.
Oblique-banded leafroller	5	spinetoram	Delegate 25 WG	100-420 g/ha, see label	-	1	0.5	3 app	see label	Pest Stage: At threshold. Coverage: Contact insecticide. Thorough coverage required. Pollinators: Toxic to bees.
	5	spinosad	Entrust 240 SC	267-440 mL/ha, see label	300-500 L/ha	1	0.5, when dry	3 app	see label	Pest Stage: At threshold. Pollinators: Toxic to bees.
	5	spinosad	Success 480 SC	145-220 mL/ha, see label	300-500 L/ha	1	0.5, when dry	3 app	see label	Pest Stage: At threshold. Pollinators: Toxic to bees
	11	Bacillus thuringiensis	Dipel 2X DF	550-1125 g/ha, see label	600 L/ha	0	0.2, when dry	-	-	Pest Stage: Young larvae. Crop Stage: Pre-bloom and bloom. Coverage: Thorough. Recommendations: Do not allow spray tank to sit for more than 12 hours.
	11	Bacillus thuringiensis	Foray 48BA SC	1.4-2.8 L/ha, see label	600 L/ha	-	-	-	-	Pest Stage: Young larvae. Crop Stage: Full bloom and petal fall. Coverage: Thorough. Recommendations: Do not allow spray tank to sit for more than 18 hours.
	18	methoxyfenozide	Intrepid 240 SC	500-750 mL/ha, see label	Minimum 300 L/ha	3	0.5	3 app, 2 L/ha	7	Pest Stage: Egg hatch and small larvae. Coverage: Thorough. Recommendations: Active ingredient is persistent and will carryover. Do not use in areas treated with this product during the previous season.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
Powdery mildew	1	thiophanate-methyl	Senator 70 WP	500 g in 1000 L water	Maximum 2200 L/ha	1	0.5-1, see label	2 app	7	Crop Stage: Bloom. Pollinators: Toxic to bees. Recommendations: Resistant anthracnose populations are present on some farms in Nova Scotia.
	3	myclobutanil	Nova 40 WSP	175-340 g/ha, see label	Minimum 250 L/ha	6	0.5	3 app	7	
	07, 09	fluopyram + pyrimethanil	Luna Tranquility SC	1.2 L/ha	Minimum 500 L/ha	0	0.5	2 app	7	Pest Stage: Begin preventatively. Crop Stage: Begin at 5-10% bloom. Recommendations: To extend shelf life and maximize latent disease control, apply the last application on the day of harvest.
	50	pyriofenone	Property 300 SC	300-366 mL/ha, see label	200-1000 L/ha	0	0.5	1.2 L/ha	7	Pest Stage: Preventative and as needed. Recommendations: Product provides suppression only. Do not make more than two consecutive applications before alternating to a product from a different FRAC group.
	M02,UN	sulphur	Microthiol Dispers 80 WP	6.72-16.8 kg/ha, see label	190-560 L/ha	1	1	8 app	10	Recommendations: Do not apply if temperature will exceed 27°C and high humidity prevails within the three days following application. Do not apply under intense sunshine. Do not apply when rain or night frost is expected. Crops are most sensitive during the flowering period.
Raspberry cane borer	04A	imidacloprid	Admire 240 SC	175-467 mL/ha, see label	200 L/ha	4	0.5	3 app	7	Crop Stage: Do not apply until petal fall. Pollinators: Toxic to bees. Recommendations: Product provides suppression only.
	28	chlorantraniliprole	Altacor 35 WG	215-285 g/ha, see label	Minimum 500 L/ha	3	0.5	3 app, 645 g/ha	14	Pest Stage: First instar, before tunneling into the root, crown or canes. Crop Safety: Use caution when applying near bloom. Coverage: Thorough. Recommendations: Do not use products containing chlorantraniliprole in areas treated with this product during the previous season.
Root weevils	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	15	1-17, see label	2 app, 2.33 L/ha	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage important. Pollinators: Toxic to bees.
	4	thiamethoxam	Actara 25 WG	210-280 g/ha, see label	Minimum 100 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply pre-bloom or during bloom. Pollinators: Toxic to bees.
Spotted wing drosophila	01B	malathion	Malathion 85 E	880-2500 mL/ha, see label	1000 L/ha	1	0.5-1, see label	2 app	10	Pollinators: Toxic to bees.
	3	cypermethrin	Ship 250 EC	245-285 mL/ha, see label	-	2	0.5	3 app	7	Pest Stage: At threshold. Crop Stage: Do not apply during bloom period. Pollinators: Toxic to bees.
	3	cypermethrin	Up-cyde 2.5 EC	245-285 mL/ha, see label	-	2	0.5	3 app	7	Pest Stage: At threshold. Crop Stage: Do not apply during bloom period. Pollinators: Toxic to bees.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	15	1-17, see label	2 app, 2.33 L/ha	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage important. Pollinators: Toxic to bees.
	5	spinetoram	Delegate 25 WG	100-420 g/ha, see label	-	1	0.5	3 app	see label	Pest Stage: At threshold. Coverage: Contact insecticide. Thorough coverage required. Pollinators: Toxic to bees.
	5	spinosad	Entrust 240 SC	267-440 mL/ha, see label	300-500 L/ha	1	0.5, when dry	3 app	see label	Pest Stage: At threshold. Pollinators: Toxic to bees.
	5	spinosad	Success 480 SC	145-220 mL/ha, see label	300-500 L/ha	1	0.5, when dry	3 app	see label	Pest Stage: At threshold. Pollinators: Toxic to bees.
	28	cyantranilprole	Exirel 100 SC	1.0-1.5 L/ha, see label	-	1	0.5	4 app, 4.5 L/ha	5	Pest Stage: At threshold. Pollinators: Toxic to bees.
	28	cyclanilprole	Harvanta 50 SL	1.2-1.6 L/ha, see label	200-1400 L/ha	1	0.5	3 app	5	Crop Stage: Avoid application during bloom period. If necessary, restrict application to evening. Pollinators: Toxic to bees. Recommendations: Avoid using two group 28 products more than two times during a single generation of insect pest or within a 30-day period.
	32	GS-omega/kappa-Hctx-Hv1a	Spear T 2 SN	9.4-28.0 L/ha, see label	Minimum 187 L/ha	0	0.2, when dry	6 app	3	Pest Stage: Immature and adult. Coverage: Thorough, no run-off. Use a spreader/sticker or non-ionic surfactant at 0.125% v/v. Recommendations: Product provides suppression only.
07: POST-HARVEST										
Anthracnose	07, 11	boscalid + pyraclostrobin	Pristine WG	1.3-1.6 kg/ha, see label	-	0	1	4 app	7	Pest Stage: Preventative.
	11, 27	famoxadone + cymoxanil	Tanos DF	840 g/ha	250-800 L/ha	9	9-11, see label	3 app	see label	Coverage: Allow a minimum of 12 days between the first and second applications. Allow a minimum of 24 days between the second and third applications. Recommendations: Do not tank mix with or rotate with Exirel.
Aphids	4	acetamiprid	Assail 70 WP	56-86 g/ha, see label	Minimum 187 L/ha	1	0.5	4 app	7	Pest Stage: At threshold. Pollinators: Toxic to bees.
	23	spirotetramat	Movento 240 SC	220-365 mL/ha, see label	Minimum 300 L/ha	3	0.5	3 app	7	Crop Stage: Post-bloom. Pollinators: Toxic to bee brood.
Cane botrytis	11, 27	famoxadone + cymoxanil	Tanos DF	840 g/ha	250-800 L/ha	9	9-11, see label	3 app	see label	Coverage: Allow a minimum of 12 days between the first and second applications. Allow a minimum of 24 days between the second and third applications. Recommendations: Do not tank mix with or rotate with Exirel.
Leafhoppers	01B	malathion	Malathion 85 E	880-2500 mL/ha, see label	1000 L/ha	1	0.5-1, see label	2 app	10	Pollinators: Toxic to bees.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	15	1-17, see label	2 app, 2.33 L/ha	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage important. Pollinators: Toxic to bees.
	3	pyrethrins	Pyganic EC 1.4 II	2.32-4.65 L/ha, see label	-	0	0.5	8 app, 37.2 L/ha	7	Pest Stage: At threshold. Crop Stage: Do not apply during bloom period. Coverage: Adjust spray tank pH to 5.5-7.0 and apply directly after mixing. Pollinators: Toxic to bees. Recommendations: Do not use in temperatures above 27°C.
	4	acetamiprid	Aceta 70 WP	56-86 g/ha, see label	Minimum 187 L/ha	1	0.5	4 app	7	Pest Stage: At threshold. Pollinators: Toxic to bees.
	4	acetamiprid	Assail 70 WP	56-86 g/ha, see label	Minimum 187 L/ha	1	0.5	4 app	7	Pest Stage: At threshold. Pollinators: Toxic to bees.
	04A	imidacloprid	Admire 240 SC	175-467 mL/ha, see label	200 L/ha	4	0.5	3 app	7	Crop Stage: Do not apply until petal fall. Pollinators: Toxic to bees. Recommendations: Product provides suppression only.
	NC	kaolin clay	Surround 95 WP	12.5-25.0 kg/ha, see label	500 L/ha	0	-	-	7	Crop Stage: Do not use during bloom or when fruit is present. Coverage: Thorough, no run-off.
Phytophthora root rot	4	metalaxyl-M and S	Ridomil Gold 480 SL	37 mL per 100 m row	-	-	0.5	-	see label	Crop Stage: Varies for new and established plantings. See label.
	21	cyazofamid	Torrent 400 SC	0.25 L in up to 1000 L/ha water	Maximum 1000 L/ha	90	0.5	2 app	see label	Coverage: Do not use any surfactant with this soil drench application.
	49	oxathiapiprolin	Orondis 100 OD	1.4-2.8 L/ha, see label	Minimum 200 L/ha	1	0.5	4 app, 5.6 L/ha	7	Crop Stage: Early spring and fall. Coverage: Directly apply to soil with a banded drench application and follow by sprinkler or drip irrigation within 24 hours to distribute the product to the root zone.
	49, 04	oxathiapiprolin + metalaxyl-M and S-isomer	Orondis Gold DC EC	4.57 L/ha	Minimum 2000 L/ha	30	0.5	2 app	see label	Crop Stage: Early spring and fall. Coverage: Directly apply to soil with a banded drench application.
	P07	fosetyl al	Aliette 80 WDG	5.5 kg/ha	200-1000 L/ha	60	0.5-2, see label	4 app	21	Pest Stage: Preventative. Crop Stage: Spring - after bud break at 7 cm new growth. Fall - at least 30 days prior to leaf drop. Recommendations: Does not tank mix well with many partners.
	P07	mono- and dibasic sodium, potassium, and ammonium phosphites	Phostrol 53.6 LI	5.2 L/ha	Minimum 400 L/ha	0	0.5	4 app	21	Pest Stage: Preventative. Recommendations: Product provides suppression only. Do not mix with copper, foliar fertilizer, or surfactants.
Powdery mildew	1	thiophanate-methyl	Senator 70 WP	500 g in 1000 L water	Maximum 2200 L/ha	1	0.5-1, see label	2 app	7	Crop Stage: Bloom. Pollinators: Toxic to bees. Recommendations: Resistant anthracnose populations are present on some farms in Nova Scotia.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	3	myclobutanol	Nova 40 WSP	175-340 g/ha, see label	Minimum 250 L/ha	6	0.5	3 app	7	
	07, 09	fluopyram + pyrimethanil	Luna Tranquility SC	1.2 L/ha	Minimum 500 L/ha	0	0.5	2 app	7	Pest Stage: Begin preventatively. Crop Stage: Begin at 5-10% bloom. Recommendations: To extend shelf life and maximize latent disease control, apply the last application on the day of harvest.
	50	pyriofenone	Property 300 SC	300-366 mL/ha, see label	200-1000 L/ha	0	0.5	1.2 L/ha	7	Pest Stage: Preventative and as needed. Recommendations: Product provides suppression only. Do not make more than two consecutive applications before alternating to a product from a different FRAC group.
	M02,UN	sulphur	Microthiol Dispers 80 WP	6.72-16.8 kg/ha, see label	190-560 L/ha	1	1	8 app	10	Recommendations: Do not apply if temperature will exceed 27°C and high humidity prevails within the three days following application. Do not apply under intense sunshine. Do not apply when rain or night frost is expected. Crops are most sensitive during the flowering period.
	NC	mineral oil	Purespray Green 13 E	10-20 L in 1000 L water, see label	-	-	0.5	8 app, see label	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Maximum of two dormant sprays per year if summer spray applications are expected during the growing season. Do not use within 14 days of Captan, Maestro, or copper and within 30 days of sulphur. Do not apply in hot temperatures or within 48 hours of freezing temperatures.
Raspberry cane borer	04A	imidacloprid	Admire 240 SC	175-467 mL/ha, see label	200 L/ha	4	0.5	3 app	7	Crop Stage: Do not apply until petal fall. Pollinators: Toxic to bees. Recommendations: Product provides suppression only.
	28	chlorantraniliprole	Altacor 35 WG	215-285 g/ha, see label	Minimum 500 L/ha	3	0.5	3 app, 645 g/ha	14	Pest Stage: First instar, before tunneling into the root, crown or canes. Crop Safety: Use caution when applying near bloom. Coverage: Thorough. Recommendations: Do not use products containing chlorantraniliprole in areas treated with this product during the previous season.
Root weevils	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	15	1-17, see label	2 app, 2.33 L/ha	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage important. Pollinators: Toxic to bees.
	4	thiamethoxam	Actara 25 WG	210-280 g/ha, see label	Minimum 100 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply pre-bloom or during bloom. Pollinators: Toxic to bees.
Spur blight	11, 27	famoxadone + cymoxanil	Tanos DF	840 g/ha	250-800 L/ha	9	9-11, see label	3 app	see label	Coverage: Allow a minimum of 12 days between the first and second applications. Allow a minimum of 24 days between the second and third applications. Recommendations: Do not tank mix with or rotate with Exirel.
Two-spotted spider mite	6	abamectin	Agri-Mek 8.4 SC	225 mL/ha	Minimum 375 L/ha	7	0.5-3, see label	5 app, 1.13 L/ha, see label	7	Pest Stage: At threshold. Crop Stage: Pre- and post-harvest. Do not apply during bloom. Coverage: Use a non-ionic surfactant at 0.1-0.5% v/v. Pollinators: Toxic to bees.

Guide to Insect and Disease Management in Raspberry 2026

Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	20B	acequinocyl	Kanemite 15 SC	2.07 L/ha	470-1870 L/ha	1	0.5	2 app	21	Pest Stage: At threshold. Coverage: Thorough, to drip.
	20D	bifenazate	Acramite 50 WS	851 g/ha	Minimum 500 L/ha	1	0.5	1 app	-	Pest Stage: Most effective on motile stage. Coverage: Thorough, including underside of leaves.
	21	pyridaben	Nexter 75 WP	300-600 g/ha, see label	550-2000 L/ha	-	0.5	2 app	30	Pest Stage: Nymph and larva. At threshold. Crop Stage: After harvest. Pollinators: Toxic to bees.
	21, 39	fenazaquin	Magister 205 SC	1.75-2.34 L/ha, see label	Minimum 500 L/ha	7	0.5-2, see label	1 app	-	Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees.
	NC	mineral oil	Purespray Green 13 E	10-20 L in 1000 L water, see label	-	-	0.5	8 app, see label	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Maximum of two dormant sprays per year if summer spray applications are expected during the growing season. Do not use within 14 days of Captan, Maestro, or copper and within 30 days of sulphur. Do not apply in hot temperatures or within 48 hours of freezing temperatures.