

HIGHBUSH BLUEBERRY 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 Highbush Blueberry Insect and Disease Guide 2026



Group	Active Ingredient	Pesticide	PCP #	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Potentially Organic	Status Update
BACTERICIDE									
M01	copper sulphate pentahydrate	Pura-fi 420 SN	32062	-	2	4 app	see label	Yes	
BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	31887	0	0.5, when dry	-	3	Yes	
FUNGICIDE									
-	capric acid + caprylic acid	Dart EC	34564	0	0.5, when dry	7 app	5	Yes	
3	mefentrifluconazole	Cevya 400 SC	33405	0	0.5	1.0 L/ha	7	No	
3	metconazole	Metconazole 50 WDG	30401	7	0.5-3, see label	3 app	7	No	
3	metconazole	Quash 480 SC	33081	8	0.5	3 app	7	No	
3	metconazole	Quash 50 WG	30402	7	0.5-3, see label	3 app	7	No	
3	myclobutanil	Nova 40 WSP	22399	1-6, see label	0.5	3 app	7	No	
3	propiconazole	Bumper 432 EC	28017	60	0.5-5, see label	2 app	see label	No	
3	propiconazole	Fitness 418 EC	32639	60	0.5-5, see label	2 app	see label	No	
3	propiconazole	Mission 418 EC	28016	60	0.5-5, see label	2 app	see label	No	
3	propiconazole	Pivot 418 EC	28219	60	0.5-5, see label	2 app	see label	No	
3	propiconazole	Propiconazole 250 E	24029	60	0.5-5, see label	2 app	see label	No	
3	propiconazole	Propi Super 25 EC	32240	60	0.5-5, see label	2 app	see label	No	
3	propiconazole	Tilt 250 E	19346	60	0.5-5, see label	2 app	see label	No	
3	prothioconazole	Proline 480 SC	28359	7	1-3, see label	2 app	see label	No	
3	triforine	Funginex DC 190 EC	27686	60	0.5-6, see label	3 app	see label	No	
03, 09	difenoconazole + cyprodinil	Inspire Super EC	30827	1	0.5	see label	see label	No	
03, 11	azoxystrobin + propiconazole	Quilt SC	28328	30	0.5	4 app	7	No	
4	metalaxyl-M and S	Ridomil Gold 480 SL	28474	80	0.5	1 app	-	No	
7	boscalid	Cantus 70 WDG	30141	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	
07, 03	fluopyram + prothioconazole	Propulse SC	33955	7	1-3, see label	2 app, 2000 mL/ha	see label	No	
07, 09	fluopyram + pyrimethanil	Luna Tranquility SC	30510	0	0.5	2 app, 4 L/ha, see label	7	No	
07, 11	boscalid + pyraclostrobin	Pristine WG	27985	0-1, see label	0.5, when dry	4 app	7	No	
07, 11	pyraclostrobin + fluxapyroxad	Merivon SC	33951	0.5-5, see label	0.5-8, see label	3 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	3 app	7	No	
11	pyraclostrobin	Cabrio EG 20 WG	27323	1	0.5	4 app	10	No	
17	fenhexamid	Elevate 50 WDG	25900	1	0.5	4 app	7	No	
19	polyoxin d zinc salt	Diplomat 5 SC	32918	0	0.5, when dry	2.78 L/ha	7	Yes	
29	fluazinam	Allegro 500F 40 SC	27517	30	1	2 app	7	No	
29	fluazinam	Vantana 500 SU	35050	30	1	2 app	7	No	
49, 04	oxathiapiprolin + metalaxyl-M and S-isomer	Orondis Gold DC EC	35176	1	0.5	2 app	30	No	

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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	QST 713 strain of dried Bacillus subtilis	Serenade OPTI WP	31666	0	0.2, when dry	-	7	Yes	
BM02	streptomyces lydicus strain WYEC 108	Actinovate SP	28672	0	0.2, when dry	-	7	Yes	
M	calcium polysulphide	Lime Sulphur 30 SN	16465	-	2	1 app	-	Yes	
M02	copper octanoate	Cueva 1.8 SN	31825	1	0.2	-	7	Yes	
M02	copper oxychloride	Copper Spray Fungicide 50 WP	19146	2	2	6 app	see label	Yes	
M02,UN	sulphur	Microthiol Disperss 80 WP	29487	1	1	8 app	10	Yes	
M04	captan	Captan 480 SC	34551	8	0.5-6, see label	6 app	7	No	
M04	captan	Captan 80 WSP	33597	2-5, see label	0.5-6, 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	Maestro 80 WSP	33488	2-5, see label	0.5-6, see label	6 app	7	No	
M04	captan	Sharda Captan 48 SC	32300	8	0.5-8, see label	6 app	7	No	
M04	captan	Supra Captan 80 WSP	33641	2-5, see label	0.5-6, see label	6 app	7	No	
M05	chlorothalonil	Echo 720 SC	29355	54	0.5-3, see label	2 app	7	No	
M05	chlorothalonil	Echo 90 WSP	33519	54	0.5-3, see label	2 app	7	No	
M5	chlorothalonil	Bravo ZN 500 SC	28900	54	0.5-3, see label	2 app	7	No	
NC	Aureobasidium pullulans DSM 14940 and DSM 14941	Botector WG	31248	0	0.2, when dry	6 app	7	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 Maxx 20 SC	30199	0	0.5, when dry	-	7	Yes	
P05	Reynoutria sachalinensis	Regalia Rx 5 SC	32350	0	0.5, when dry	-	7	Yes	
P07	fosetyl al	Aliette 80 WDG	24458	1	0.5-3, see label	4 app	14	No	
P07	mono- and dibasic sodium, potassium, and ammonium phosphites	Phostrol 53.6 LI	30449	0	0.5	4 app	14	No	
P07	mono- and di-potassium salts of Phosphorous Acid	Confine Extra 53 LI	30648	1	0.5	5 app	7	No	
INSECTICIDE									
01A	carbaryl	Sevin XLR 43 SC	27876	2-9, see label	5-9, see label	2 app	8	No	
01B	dimethoate	Cygon 480-AG EC	25651	21	0.5	2 app	see label	No	
01B	dimethoate	Lagon 480 E	9382	9-21, see label	0.5-12, see label	2 app	see label	No	
01B	malathion	Malathion 85 E	8372	1-2, see label	0.5-1, see label	2-3 app, see label	see label	No	
01B	phosmet	Imidan 50 WP	23006	15-17, see label	0.5-20, see label	1 app	-	No	
01B	phosmet	Imidan 70 WP	29064	15-17, see label	0.5-20, see label	1 app	-	No	
3	cypermethrin	Ship 250 EC	32563	2	0.5	2 app	7	No	
3	cypermethrin	Up-cyde 2.5 EC	28795	2	0.5	2 app	7	No	
3	deltamethrin	Decis 100 EC	33700	14	0.5	3 app	5	No	

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3	deltamethrin	Poleci 2.5 EC	32446	14	0.5	3 app	5	No	
3	fenpropathrin	Danitol 30.9 EC	33817	3-15, see label	1-17, see label	2 app	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	7	0.5-2, see label	4 app	12	No	
4	acetamiprid	Assail 70 WP	27128	1-7, see label	0.5-2, see label	4 app	12	No	
4	thiamethoxam	Actara 25 WG	28408	3	0.5	2 app	7	No	
04, 15	acetamiprid and novaluron	Cormoran EC	33353	8	0.5	3 app	10	No	
04A	imidacloprid	Admire 240 SC	24094	3	0.5	2 app	7	No	
04C	sulfoxaflor	Closer 240 SC	30826	1	0.5	2-3 app, see label	7	No	
04D	flupyradifurone	Sivanto Prime 200 SN	31452	3	0.5	2000 mL/ha	7	No	
5	spinetoram	Delegate 25 WG	28778	1-3, see label	0.5	3 app	see label	No	
5	spinosad	Entrust 240 SC	30382	1-3, see label	0.5, when dry	3 app	see label	Yes	
5	spinosad	GF-120 Fruit Fly Bait SN	28336	-	0.5, when dry	5 app	-	Yes	
5	spinosad	Success 480 SC	26835	1-3, see label	0.5, when dry	3 app	see label	Yes	
11	bacillus thuringiensis	Bioprotec PLUS SC	32425	0	0.2, when dry	4 app	5	Yes	
11	Bacillus thuringiensis	Dipel 2X DF	26508	0	0.2, when dry	4 app	-	Yes	
15	novaluron	Rimon 10 EC	28515	8	0.5	3 app	10	No	
18	methoxyfenozide	Intrepid 240 SC	27786	7	0.5	4 app	7	No	
18	tebufenozide	Confirm 240 F	24503	14	0.5	4.6 L/ha	see label	No	
23	spirotetramat	Movento 240 SC	28953	7	0.5	1.83 L/ha	7	No	
28	chlorantraniliprole	Altacor 35 WG	28981	1	0.5	3 app, 645 g/ha	7	No	
28	cyantraniliprole	Exirel 100 SC	30895	3	0.5	4 app, 4.5 L/ha	5	No	
28	cyclaniliprole	Cyclaniliprole 50 SL	32862	1	0.5	3 app	5	No	
28	cyclaniliprole	Harvanta 50 SL	32889	1	0.5	3 app, 4.8 L/ha	5	No	
32	GS-omega/kappa-Htx-Hv1a	Spear T 2 SN	34679	0	0.2, when dry	6 app	3	Yes	
NC	mineral oil	Guardsman Dormant spray oil	23370	-	0.5	1 app	-	Yes	
MITICIDE									
NC	petroleum oil	Superior 70 Oil EC	14981	-	0.5	1 app	-	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	0.5	8 app, see label	7	Yes	
20B	acequinocyl	Kanemite 15 SC	28641	1	0.5	2 app	21	No	
21, 39	fenazaquin	Magister 205 SC	34544	7	0.5-2, see label	1 app	-	No	

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01: DORMANT										
Anthracnose	29	fluazinam	Vantana 500 SU	2.24 L/ha	300-1000 L/ha	30	1	2 app	7	Crop Stage: Bud break to petal fall. Recommendations: Product provides suppression only.
	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.
Aphids	NC	mineral oil	Purespray Green 13 E	1-2% v/v, see label	Maximum 1000 L/ha	0	0.5	8 app, see label	7	Coverage: Thorough. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use within 48 hours of freezing temperatures or when temperatures are above 30°C. Do not use chlorothalonil, captan, sulphur or dimethoate in a spray program with this product. Do not use within 14 days of Maestro or Captan or within 10 days of Bravo or Echo.
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: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	M01	copper sulphate pentahydrate	Pura-fi 420 SN	180-200 ppm, see label	600-1200 L/ha	-	2	4 app	see label	Coverage: Use with crop oil concentrate at 494 mL/ha. Recommendations: Do not mix with lime sulphur.
Botrytis grey mould	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.
Leaf tier	3	deltamethrin	Decis 100 EC	62.5-75.0 mL/ha, see label	1200-1500 L/ha	14	0.5	3 app	5	Pollinators: Toxic to bees.
Monilinia blight	29	fluazinam	Vantana 500 SU	2.24 L/ha	300-1000 L/ha	30	1	2 app	7	Crop Stage: Bud break to petal fall. Recommendations: Product provides suppression only.
Phomopsis	29	fluazinam	Vantana 500 SU	2.24 L/ha	300-1000 L/ha	30	1	2 app	7	Crop Stage: Bud break to petal fall. Recommendations: Product provides suppression only.
Phytophthora root rot	4	metalaxyl-M and S	Ridomil Gold 480 SL	37 mL/100 m row	Minimum 2000 L/ha	80	0.5	1 app	-	Crop Stage: Early spring, prior to growth. Coverage: Apply to soil surface in one-metre wide band centred over row.
	49, 04	oxathiapiprolin + metalaxyl-M and S-isomer	Orondis Gold DC EC	4.57 L/ha	Minimum 2000 L/ha	1	0.5	2 app	30	Coverage: Apply as a drench, soil directed spray, or through irrigation water, ensuring that the product solution thoroughly wets the target root zone. Follow with irrigation if necessary.
Scale	M	calcium polysulphide	Lime Sulphur 30 SN	36.7 L/ha	1000 L/ha	-	2	1 app	-	Crop Stage: Dormancy (January-March). Coverage: Thorough, to runoff. Use with Dormant Oil Spray at 12.5 L/ha. Do not apply to wet foliage.
	NC	canola oil	Vegol Crop Oil 96 EC	2% v/v	700-1900 L/ha	0	0.5	6 app, see label	7	Coverage: Do not apply to wet foliage. Recommendations: Do not use within 48 hours of freezing temperatures or when temperatures are above 30°C. Do not use chlorothalonil, captan, sulphur or dimethoate in a spray program with this product. Do not use within 14 days of Maestro or Captan or within 10 days of Bravo or Echo.

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	1-2% v/v, see label	Maximum 1000 L/ha	0	0.5	8 app, see label	7	Coverage: Thorough. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use within 48 hours of freezing temperatures or when temperatures are above 30°C. Do not use chlorothalonil, captan, sulphur or dimethoate in a spray program with this product. Do not use within 14 days of Maestro or Captan or within 10 days of Bravo or Echo.
	NC	petroleum oil	Superior 70 Oil EC	20-30 L/ha, see label	1000-1500 L/ha	-	0.5	1 app	-	Crop Stage: Dormancy (late winter). Recommendations: Do not use within 48 hours of freezing temperatures or when temperatures are above 30°C. Do not use chlorothalonil, captan, sulphur or dimethoate in a spray program with this product. Do not use within 14 days of Maestro or Captan or within 10 days of Bravo or Echo.
02: EARLY SPRING TO GREEN TIP										
Anthracnose	29	fluazinam	Vantana 500 SU	2.24 L/ha	300-1000 L/ha	30	1	2 app	7	Crop Stage: Bud break to petal fall. Recommendations: Product provides suppression only.
	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.
Aphids	NC	mineral oil	Purespray Green 13 E	1-2% v/v, see label	Maximum 1000 L/ha	0	0.5	8 app, see label	7	Coverage: Thorough. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use within 48 hours of freezing temperatures or when temperatures are above 30°C. Do not use chlorothalonil, captan, sulphur or dimethoate in a spray program with this product. Do not use within 14 days of Maestro or Captan or within 10 days of Bravo or Echo.
Armyworm cutworm	18	tebufenozide	Confirm 240 F	1.0-1.2 L/ha, see label	Minimum 300 L/ha	14	0.5	4.6 L/ha	see label	Coverage: Thorough.
Bacterial blight	M01	copper sulphate pentahydrate	Pura-fi 420 SN	180-200 ppm, see label	600-1200 L/ha	-	2	4 app	see label	Coverage: Use with crop oil concentrate at 494 mL/ha. Recommendations: Do not mix with lime sulphur.
Botrytis grey mould	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.
Leaf-tier	3	deltamethrin	Poleci 2.5 EC	250-300 mL/ha, see label	1200-1500 L/ha	14	0.5	3 app	5	Pollinators: Toxic to bees.
Monilinia blight	-	capric acid + caprylic acid	Dart EC	0.25-0.35% v/v, see label	370-560 L/ha	0	0.5, when dry	7 app	5	Crop Stage: Begin at bud break. Coverage: Thorough, to point of runoff. Direct spray into the floral cup.
	3	mefentrifluconazole	Cevya 400 SC	250 mL/ha	Minimum 100 L/ha	0	0.5	1.0 L/ha	7	Pest Stage: Begin preventatively. Coverage: Thorough. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	3	metconazole	Metconazole 50 WDG	180 g/ha	Minimum 200 L/ha	7	0.5-3, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.

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	3	metconazole	Quash 480 SC	188 mL/ha	Minimum 200 L/ha	8	0.5	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not make more than two sequential applications.
	3	metconazole	Quash 50 WG	180 g/ha	Minimum 200 L/ha	7	0.5-3, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	3	propiconazole	Bumper 432 EC	300 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Fitness 418 EC	300 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Mission 418 EC	300 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Pivot 418 EC	300 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Propiconazole 250 E	500 mL/ha	-	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Propi Super 25 EC	500 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Tilt 250 E	500 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	prothioconazole	Proline 480 SC	315-420 mL/ha, see label	Minimum 100 L/ha	7	1-3, see label	2 app	see label	Coverage: Use a non-ionic surfactant at 0.125% v/v. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	3	triforine	Funginex DC 190 EC	1.7-3.0 L/ha, see label	1000 L/ha	60	0.5-6, see label	3 app	see label	Crop Stage: Begin at bud break. Application during or after early bloom may result in fruit russetting. Recommendations: The maximum residue limit is zero (0) in the USA. Funginex may still be used in Canada; however, treated blueberries are not suitable for shipment to the USA since they may contain Funginex residues.
	03, 09	difenoconazole + cyprodinil	Inspire Super EC	558-1475 mL/ha, see label	Minimum 200 L/ha	1	0.5	see label	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product where permitted.
	03, 11	azoxystrobin + propiconazole	Quilt SC	1.0 L/ha	Minimum 200 L/ha	30	0.5	4 app	7	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product for resistance management. Do not tank-mix or make sequential applications with Exirel.
	07, 03	fluopyram + prothioconazole	Propulse SC	750-1000 mL/ha, see label	Minimum 100 L/ha	7	1-3, see label	2 app, 2000 mL/ha	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	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 runoff. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.

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	29	fluazinam	Allegro 500F 40 SC	1.46-2.24 L/ha, see label	300-1000 L/ha	30	1	2 app	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	29	fluazinam	Vantana 500 SU	2.24 L/ha	300-1000 L/ha	30	1	2 app	7	Crop Stage: Bud break to petal fall. Recommendations: Product provides suppression only.
	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. 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: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	BM02	streptomyces lydicus strain WYEC 108	Actinovate SP	425-840 g/ha, see label	200-1400 L/ha	0	0.2, when dry	-	7	Pest Stage: Begin preventatively. Coverage: Thorough, no runoff. Recommendations: Product provides suppression only. Do not combine with other products.
	M04	captan	Captan 480 SC	3.73 L/ha	1000 L/ha	8	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with products such as Exirel, Fontelis, or Timorex Gold.
	M04	captan	Captan 80 WSP	2.25 kg/ha	1000 L/ha	2-5, see label	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with products such as Exirel, Fontelis, or Timorex Gold.
	M04	captan	Captan L 482 SC	3.73 L/ha	1000 L/ha	8	0.5-8, see label	6 app	7	Pest Stage: Preventative.
	M04	captan	Maestro 80 WSP	2.25 kg/ha	1000 L/ha	2-5, see label	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil. Do not tank-mix or use in sequential application with Exirel or Fontelis.
	M04	captan	Sharda Captan 48 SC	3.75 L/ha	1000 L/ha	8	0.5-8, see label	6 app	7	Pest Stage: Preventative.
	M04	captan	Supra Captan 80 WSP	2.25 kg/ha	1000 L/ha	2-5, see label	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with products such as Exirel, Fontelis, or Timorex Gold.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate 2.0 SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Begin preventatively. Coverage: Thorough, to runoff. Pollinators: Toxic to bees. Recommendations: Product provides suppression only. Avoid application before rain.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Begin preventatively. Coverage: Thorough, to runoff. Pollinators: Toxic to bees. Recommendations: Product provides suppression only. Avoid application before rain.
	P05	Reynoutria sachalinensis	Regalia Maxx 20 SC	0.125-0.25% v/v, see label	400-800 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.

Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	P05	Reynoutria sachalinensis	Regalia Rx 5 SC	5.0-10.0 L/ha, see label	400-1000 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
Phomopsis	29	fluazinam	Vantana 500 SU	2.24 L/ha	300-1000 L/ha	30	1	2 app	7	Crop Stage: Bud break to petal fall. Recommendations: Product provides suppression only.
Phytophthora root rot	4	metalaxyl-M and S	Ridomil Gold 480 SL	37 mL/100 m row	Minimum 2000 L/ha	80	0.5	1 app	-	Crop Stage: Early spring, prior to growth. Coverage: Apply to soil surface in one-metre wide band centred over row.
	P07	fosetyl al	Aliette 80 WDG	5.6 kg/ha	300-1000 L/ha	1	0.5-3, see label	4 app	14	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Spanworm	5	spinetoram	Delegate 25 WG	100-420 g/ha, see label	-	1-3, see label	0.5	3 app	see label	Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	18	tebufenozide	Confirm 240 F	1.0-1.2 L/ha, see label	Minimum 300 L/ha	14	0.5	4.6 L/ha	see label	Coverage: Thorough.
03: GREEN TIP										
Anthracnose	3	metconazole	Quash 480 SC	188 mL/ha	Minimum 200 L/ha	8	0.5	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not make more than two sequential applications.
	3	metconazole	Quash 50 WG	180 g/ha	Minimum 200 L/ha	7	0.5-3, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	03, 09	difenoconazole + cyprodinil	Inspire Super EC	558-1475 mL/ha, see label	Minimum 200 L/ha	1	0.5	see label	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product where permitted.
	07, 11	boscalid + pyraclostrobin	Pristine WG	1.3-1.6 kg/ha, see label	-	0-1, see label	0.5, when dry	4 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use with Exirel.
	07, 11	pyraclostrobin + fluxapyroxad	Merivon SC	400-800 mL/ha, see label	Minimum 100 L/ha	0.5-5, see label	0.5-8, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use with Exirel.
	09, 12	cyprodinil + fluodioxinil	Switch 62.5 WG	775-975 g/ha, see label	Minimum 200 L/ha	1	0.5	3 app	7	Crop Stage: Begin during early bloom. Recommendations: One of the actives in this product is persistent and may carryover. It is recommended that any products containing fluodioxinil not be used in areas treated with this product during the previous season.
	11	pyraclostrobin	Cabrio EG 20 WG	1.0 kg/ha	Minimum 225 L/ha	1	0.5	4 app	10	Pest Stage: Begin preventatively. Recommendations: Do not make more than one application before alternating to a fungicide with a different mode of action. Do not tank-mix or make sequential applications with Exirel. FRAC Group 11 products should not make up more than half of the fungicide applications in a spray program.
	29	fluazinam	Allegro 500F 40 SC	1.46-2.24 L/ha, see label	300-1000 L/ha	30	1	2 app	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	29	fluazinam	Vantana 500 SU	2.24 L/ha	300-1000 L/ha	30	1	2 app	7	Crop Stage: Bud break to petal fall. Recommendations: Product provides suppression only.

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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	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.
	M05	chlorothalonil	Echo 720 SC	5.0 L/ha	225-1600 L/ha	54	0.5-3, see label	2 app	7	Crop Stage: Green tip, pink bud, or petal fall.
	M05	chlorothalonil	Echo 90 WSP	4.0 kg/ha	225-1600 L/ha	54	0.5-3, see label	2 app	7	Crop Stage: Green tip, pink bud, or petal fall.
	P05	Reynoutria sachalinensis	Regalia Maxx 20 SC	0.125-0.25% v/v, see label	400-800 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	P07	fosetyl al	Aliette 80 WDG	5.6 kg/ha	300-1000 L/ha	1	0.5-3, see label	4 app	14	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	P07	mono- and di-potassium salts of Phosphorous Acid	Confine Extra 53 LI	4.0-5.0 L/ha, see label	Minimum 100 L/ha	1	0.5	5 app	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only.
Aphids	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	Crop Stage: Do not apply during bloom. Coverage: Thorough, no runoff. Pollinators: Toxic to bees.
	04, 15	acetamiprid and novaluron	Cormoran EC	700-1400 mL/ha, see label	Minimum 200 L/ha	8	0.5	3 app	10	Pollinators: Toxic to bees. Recommendations: Some phytotoxic symptoms to foliage (mottled chlorosis) may occur when product is applied under conditions of high temperatures and/or drought stress, particularly during periods of new, tender shoot growth. These symptoms will not occur on future growth and will not affect fruiting or yield.
	04A	imidacloprid	Admire 240 SC	175-350 mL/ha, see label	Maximum 1000 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply until petal fall. When applying after petal fall, renovation of woody plants (cutting back of old growth) must occur after harvest and before the next season's bloom. Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
	04C	sulfoxaflor	Closer 240 SC	100-400 mL/ha, see label	200-1000 L/ha	1	0.5	2-3 app, see label	7	Pest Stage: At threshold. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	04D	flupyradifurone	Sivanto Prime 200 SN	500-1000 mL/ha, see label	Minimum 100 L/ha	3	0.5	2000 mL/ha	7	Pollinators: Toxic to some bees. Recommendations: Do not apply more than two Group 4A products per season.
	23	spirotetramat	Movento 240 SC	220-585 mL/ha, see label	200-3000 L/ha	7	0.5	1.83 L/ha	7	Crop Stage: Post-bloom. Pollinators: Toxic to bee brood. Recommendations: Efficacy varies depending on pest. See efficacy table and product 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
	NC	mineral oil	Purespray Green 13 E	1-2% v/v, see label	Maximum 1000 L/ha	0	0.5	8 app, see label	7	Coverage: Thorough. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use within 48 hours of freezing temperatures or when temperatures are above 30°C. Do not use chlorothalonil, captan, sulphur or dimethoate in a spray program with this product. Do not use within 14 days of Maestro or Captan or within 10 days of Bravo or Echo.
Armyworm cutworm	18	tebufenozide	Confirm 240 F	1.0-1.2 L/ha, see label	Minimum 300 L/ha	14	0.5	4.6 L/ha	see label	Coverage: Thorough.
Bacterial blight	M02	copper oxychloride	Copper Spray Fungicide 50 WP	2.0-4.0 kg/ha, see label	500-1000 L/ha	2	2	6 app	see label	Crop Stage: Apply before fall rains, at 50% leaf fall, at bud burst, then at 14 day intervals during wet weather.
Botrytis grey mould	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.
Monilinia blight	-	capric acid + caprylic acid	Dart EC	0.25-0.35% v/v, see label	370-560 L/ha	0	0.5, when dry	7 app	5	Crop Stage: Begin at bud break. Coverage: Thorough, to point of runoff. Direct spray into the floral cup.
	3	mefentrifluconazole	Cevya 400 SC	250 mL/ha	Minimum 100 L/ha	0	0.5	1.0 L/ha	7	Pest Stage: Begin preventatively. Coverage: Thorough. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	3	metconazole	Metconazole 50 WDG	180 g/ha	Minimum 200 L/ha	7	0.5-3, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	3	metconazole	Quash 480 SC	188 mL/ha	Minimum 200 L/ha	8	0.5	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not make more than two sequential applications.
	3	metconazole	Quash 50 WG	180 g/ha	Minimum 200 L/ha	7	0.5-3, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	3	propiconazole	Bumper 432 EC	300 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Fitness 418 EC	300 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Mission 418 EC	300 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Pivot 418 EC	300 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Propiconazole 250 E	500 mL/ha	-	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Propi Super 25 EC	500 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.

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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	propiconazole	Tilt 250 E	500 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	prothioconazole	Proline 480 SC	315-420 mL/ha, see label	Minimum 100 L/ha	7	1-3, see label	2 app	see label	Coverage: Use a non-ionic surfactant at 0.125% v/v. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	3	triforine	Funginex DC 190 EC	1.7-3.0 L/ha, see label	1000 L/ha	60	0.5-6, see label	3 app	see label	Crop Stage: Begin at bud break. Application during or after early bloom may result in fruit russetting. Recommendations: The maximum residue limit is zero (0) in the USA. Funginex may still be used in Canada; however, treated blueberries are not suitable for shipment to the USA since they may contain Funginex residues.
	03, 09	difenoconazole + cyprodinil	Inspire Super EC	558-1475 mL/ha, see label	Minimum 200 L/ha	1	0.5	see label	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product where permitted.
	03, 11	azoxystrobin + propiconazole	Quilt SC	1.0 L/ha	Minimum 200 L/ha	30	0.5	4 app	7	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product for resistance management. Do not tank-mix or make sequential applications with Exirel.
	07, 03	fluopyram + prothioconazole	Propulse SC	750-1000 mL/ha, see label	Minimum 100 L/ha	7	1-3, see label	2 app, 2000 mL/ha	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	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 runoff. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	29	fluazinam	Allegra 500F 40 SC	1.46-2.24 L/ha, see label	300-1000 L/ha	30	1	2 app	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	29	fluazinam	Vantana 500 SU	2.24 L/ha	300-1000 L/ha	30	1	2 app	7	Crop Stage: Bud break to petal fall. Recommendations: Product provides suppression only.
	BM02	Bacillus amyloliquifaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. 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: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	BM02	streptomyces lydicus strain WYEC 108	Actinovate SP	425-840 g/ha, see label	200-1400 L/ha	0	0.2, when dry	-	7	Pest Stage: Begin preventatively. Coverage: Thorough, no runoff. Recommendations: Product provides suppression only. Do not combine with other products.
	M04	captan	Captan 480 SC	3.73 L/ha	1000 L/ha	8	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with products such as Exirel, Fontelis, or Timorex Gold.
	M04	captan	Captan 80 WSP	2.25 kg/ha	1000 L/ha	2-5, see label	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with products such as Exirel, Fontelis, or Timorex Gold.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	M04	captan	Captan L 482 SC	3.73 L/ha	1000 L/ha	8	0.5-8, see label	6 app	7	Pest Stage: Preventative.
	M04	captan	Maestro 80 WSP	2.25 kg/ha	1000 L/ha	2-5, see label	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil. Do not tank-mix or use in sequential application with Exirel or Fontelis.
	M04	captan	Sharda Captan 48 SC	3.75 L/ha	1000 L/ha	8	0.5-8, see label	6 app	7	Pest Stage: Preventative.
	M04	captan	Supra Captan 80 WSP	2.25 kg/ha	1000 L/ha	2-5, see label	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with products such as Exirel, Fontelis, or Timorex Gold.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate 2.0 SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Begin preventatively. Coverage: Thorough, to runoff. Pollinators: Toxic to bees. Recommendations: Product provides suppression only. Avoid application before rain.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Begin preventatively. Coverage: Thorough, to runoff. Pollinators: Toxic to bees. Recommendations: Product provides suppression only. Avoid application before rain.
	P05	Reynoutria sachalinensis	Regalia Maxx 20 SC	0.125-0.25% v/v, see label	400-800 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	P05	Reynoutria sachalinensis	Regalia Rx 5 SC	5.0-10.0 L/ha, see label	400-1000 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
Phomopsis	3	metconazole	Quash 480 SC	188 mL/ha	Minimum 200 L/ha	8	0.5	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not make more than two sequential applications.
	3	metconazole	Quash 50 WG	180 g/ha	Minimum 200 L/ha	7	0.5-3, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	03, 09	difenoconazole + cyprodinil	Inspire Super EC	558-1475 mL/ha, see label	Minimum 200 L/ha	1	0.5	see label	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product where permitted.
	07, 11	boscalid + pyraclostrobin	Pristine WG	1.3-1.6 kg/ha, see label	-	0-1, see label	0.5, when dry	4 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use with Exirel.
	07, 11	pyraclostrobin + fluxapyroxad	Merivon SC	400-800 mL/ha, see label	Minimum 100 L/ha	0.5-5, see label	0.5-8, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use with Exirel.
	09, 12	cyprodinil + fluodioxinil	Switch 62.5 WG	775-975 g/ha, see label	Minimum 200 L/ha	1	0.5	3 app	7	Crop Stage: Begin during early bloom. Recommendations: One of the actives in this product is persistent and may carryover. It is recommended that any products containing fluodioxinil not be used 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
	11	pyraclostrobin	Cabrio EG 20 WG	1.0 kg/ha	Minimum 225 L/ha	1	0.5	4 app	10	Pest Stage: Begin preventatively. Recommendations: Do not make more than one application before alternating to a fungicide with a different mode of action. Do not tank-mix or make sequential applications with Exirel. FRAC Group 11 products should not make up more than half of the fungicide applications in a spray program.
	29	fluazinam	Allegro 500F 40 SC	1.46-2.24 L/ha, see label	300-1000 L/ha	30	1	2 app	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	29	fluazinam	Vantana 500 SU	2.24 L/ha	300-1000 L/ha	30	1	2 app	7	Crop Stage: Bud break to petal fall. Recommendations: Product provides suppression only.
	M05	chlorothalonil	Echo 720 SC	5.0 L/ha	225-1600 L/ha	54	0.5-3, see label	2 app	7	Crop Stage: Green tip, pink bud, or petal fall.
	M05	chlorothalonil	Echo 90 WSP	4.0 kg/ha	225-1600 L/ha	54	0.5-3, see label	2 app	7	Crop Stage: Green tip, pink bud, or petal fall.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate 2.0 SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Begin preventatively. Coverage: Thorough, to runoff. Pollinators: Toxic to bees. Recommendations: Product provides suppression only. Avoid application before rain.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Begin preventatively. Coverage: Thorough, to runoff. Pollinators: Toxic to bees. Recommendations: Product provides suppression only. Avoid application before rain.
	P05	Reynoutria sachalinensis	Regalia Maxx 20 SC	0.125-0.25% v/v, see label	400-800 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	P05	Reynoutria sachalinensis	Regalia Rx 5 SC	5.0-10.0 L/ha, see label	400-1000 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	P07	fosetyl al	Aliette 80 WDG	5.6 kg/ha	300-1000 L/ha	1	0.5-3, see label	4 app	14	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	P07	mono- and di-potassium salts of Phosphorous Acid	Confine Extra 53 LI	4.0-5.0 L/ha, see label	Minimum 100 L/ha	1	0.5	5 app	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only.
Powdery mildew	07, 09	fluopyram + pyrimethanil	Luna Tranquility SC	1.2 L/ha	Minimum 500 L/ha	0	0.5	2 app, 4 L/ha, see label	7	Pest Stage: Begin preventatively. Apply repeat applications if conditions are wet. Recommendations: Rotate to a product from a different FRAC group after one application.
	M02,UN	sulphur	Microthiol Disperss 80 WP	6.72-16.8 kg/ha, see label	200-600 L/ha	1	1	8 app	10	Crop Stage: Begin before blossoms open. Recommendations: Do not use on sulphur-sensitive varieties. Do not apply if temperature will exceed 27°C and high humidity prevails within the three days following application, due to the risk of crop injury. Do not apply under intense sunshine. Do not apply when rain or night frost is expected. Crops are most sensitive during the flowering period. Do not mix with dinitro compounds, tetradifon or oils.

Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	P05	Reynoutria sachalinensis	Regalia Rx 5 SC	5.0-10.0 L/ha, see label	400-1000 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
Spanworm	5	spinetoram	Delegate 25 WG	100-420 g/ha, see label	-	1-3, see label	0.5	3 app	see label	Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	18	tebufenozide	Confirm 240 F	1.0-1.2 L/ha, see label	Minimum 300 L/ha	14	0.5	4.6 L/ha	see label	Coverage: Thorough.
04: PINK BUD										
Anthracnose	3	metconazole	Quash 480 SC	188 mL/ha	Minimum 200 L/ha	8	0.5	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not make more than two sequential applications.
	3	metconazole	Quash 50 WG	180 g/ha	Minimum 200 L/ha	7	0.5-3, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	03, 09	difenoconazole + cyprodinil	Inspire Super EC	558-1475 mL/ha, see label	Minimum 200 L/ha	1	0.5	see label	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product where permitted.
	07, 11	boscalid + pyraclostrobin	Pristine WG	1.3-1.6 kg/ha, see label	-	0-1, see label	0.5, when dry	4 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use with Exirel.
	07, 11	pyraclostrobin + fluxapyroxad	Merivon SC	400-800 mL/ha, see label	Minimum 100 L/ha	0.5-5, see label	0.5-8, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use with Exirel.
	09, 12	cyprodinil + fluodioxinil	Switch 62.5 WG	775-975 g/ha, see label	Minimum 200 L/ha	1	0.5	3 app	7	Crop Stage: Begin during early bloom. Recommendations: One of the actives in this product is persistent and may carryover. It is recommended that any products containing fludioxonil not be used in areas treated with this product during the previous season.
	11	pyraclostrobin	Cabrio EG 20 WG	1.0 kg/ha	Minimum 225 L/ha	1	0.5	4 app	10	Pest Stage: Begin preventatively. Recommendations: Do not make more than one application before alternating to a fungicide with a different mode of action. Do not tank-mix or make sequential applications with Exirel. FRAC Group 11 products should not make up more than half of the fungicide applications in a spray program.
	29	fluazinam	Allegro 500F 40 SC	1.46-2.24 L/ha, see label	300-1000 L/ha	30	1	2 app	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.
M05	chlorothalonil	Echo 720 SC	5.0 L/ha	225-1600 L/ha	54	0.5-3, see label	2 app	7	Crop Stage: Green tip, pink bud, or petal fall.	
M05	chlorothalonil	Echo 90 WSP	4.0 kg/ha	225-1600 L/ha	54	0.5-3, see label	2 app	7	Crop Stage: Green tip, pink bud, or petal fall.	

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	P05	Reynoutria sachalinensis	Regalia Maxx 20 SC	0.125-0.25% v/v, see label	400-800 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	P07	fosetyl al	Aliette 80 WDG	5.6 kg/ha	300-1000 L/ha	1	0.5-3, see label	4 app	14	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	P07	mono- and di-potassium salts of Phosphorous Acid	Confine Extra 53 LI	4.0-5.0 L/ha, see label	Minimum 100 L/ha	1	0.5	5 app	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only.
Aphids	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	Crop Stage: Do not apply during bloom. Coverage: Thorough, no runoff. Pollinators: Toxic to bees.
	04, 15	acetamiprid and novaluron	Cormoran EC	700-1400 mL/ha, see label	Minimum 200 L/ha	8	0.5	3 app	10	Pollinators: Toxic to bees. Recommendations: Some phytotoxic symptoms to foliage (mottled chlorosis) may occur when product is applied under conditions of high temperatures and/or drought stress, particularly during periods of new, tender shoot growth. These symptoms will not occur on future growth and will not affect fruiting or yield.
	04A	imidacloprid	Admire 240 SC	175-350 mL/ha, see label	Maximum 1000 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply until petal fall. When applying after petal fall, renovation of woody plants (cutting back of old growth) must occur after harvest and before the next season's bloom. Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
	04C	sulfoxaflor	Closer 240 SC	100-400 mL/ha, see label	200-1000 L/ha	1	0.5	2-3 app, see label	7	Pest Stage: At threshold. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	04D	flupyradifurone	Sivanto Prime 200 SN	500-1000 mL/ha, see label	Minimum 100 L/ha	3	0.5	2000 mL/ha	7	Pollinators: Toxic to some bees. Recommendations: Do not apply more than two Group 4A products per season.
	23	spirotetramat	Movento 240 SC	220-585 mL/ha, see label	200-3000 L/ha	7	0.5	1.83 L/ha	7	Crop Stage: Post-bloom. Pollinators: Toxic to bee brood. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	NC	mineral oil	Purespray Green 13 E	1-2% v/v, see label	Maximum 1000 L/ha	0	0.5	8 app, see label	7	Coverage: Thorough. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use within 48 hours of freezing temperatures or when temperatures are above 30°C. Do not use chlorothalonil, captan, sulphur or dimethoate in a spray program with this product. Do not use within 14 days of Maestro or Captan or within 10 days of Bravo or Echo.
Armyworm cutworm	18	tebufenozide	Confirm 240 F	1.0-1.2 L/ha, see label	Minimum 300 L/ha	14	0.5	4.6 L/ha	see label	Coverage: Thorough.
Bacterial blight	M02	copper oxychloride	Copper Spray Fungicide 50 WP	2.0-4.0 kg/ha, see label	500-1000 L/ha	2	2	6 app	see label	Crop Stage: Apply before fall rains, at 50% leaf fall, at bud burst, then at 14 day intervals during wet weather.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
Botrytis grey mould	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.
Leafrollers	5	spinetoram	Delegate 25 WG	100-420 g/ha, see label	-	1-3, see label	0.5	3 app	see label	Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	5	spinosad	Entrust 240 SC	219-440 mL/ha, see label	300-500 L/ha	1-3, see label	0.5, when dry	3 app	see label	Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	5	spinosad	Success 480 SC	110-220 mL/ha, see label	300-500 L/ha	1-3, see label	0.5, when dry	3 app	see label	Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	18	methoxyfenozide	Intrepid 240 SC	500 mL/ha	Minimum 300 L/ha	7	0.5	4 app	7	Coverage: Thorough. Pollinators: Not toxic to bees.
	18	tebufenozide	Confirm 240 F	1.0-1.2 L/ha, see label	Minimum 300 L/ha	14	0.5	4.6 L/ha	see label	Coverage: Thorough.
	28	chlorantraniliprole	Altacor 35 WG	215-285 g/ha, see label	Minimum 200 L/ha	1	0.5	3 app, 645 g/ha	7	Pest Stage: At threshold. Coverage: Thorough. Recommendations: Use the higher rate for heavy pest pressure.
	28	cyantraniliprole	Exirel 100 SC	500-1500 mL/ha, see label	Minimum 200 L/ha	3	0.5	4 app, 4.5 L/ha	5	Pest Stage: At threshold. Coverage: Thorough. Use an MSO surfactant at 0.5-1.0% v/v for some pests - see label. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Monilinia blight	-	capric acid + caprylic acid	Dart EC	0.25-0.35% v/v, see label	370-560 L/ha	0	0.5, when dry	7 app	5	Crop Stage: Begin at bud break. Coverage: Thorough, to point of runoff. Direct spray into the floral cup.
	3	mefentrifluconazole	Cevya 400 SC	250 mL/ha	Minimum 100 L/ha	0	0.5	1.0 L/ha	7	Pest Stage: Begin preventatively. Coverage: Thorough. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	3	metconazole	Metconazole 50 WDG	180 g/ha	Minimum 200 L/ha	7	0.5-3, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	3	metconazole	Quash 480 SC	188 mL/ha	Minimum 200 L/ha	8	0.5	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not make more than two sequential applications.

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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	metconazole	Quash 50 WG	180 g/ha	Minimum 200 L/ha	7	0.5-3, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	3	propiconazole	Bumper 432 EC	300 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Fitness 418 EC	300 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Mission 418 EC	300 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Pivot 418 EC	300 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Propiconazole 250 E	500 mL/ha	-	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Propi Super 25 EC	500 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	propiconazole	Tilt 250 E	500 mL/ha	Minimum 200 L/ha	60	0.5-5, see label	2 app	see label	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Tank mix with a Group M product for resistance management.
	3	prothioconazole	Proline 480 SC	315-420 mL/ha, see label	Minimum 100 L/ha	7	1-3, see label	2 app	see label	Coverage: Use a non-ionic surfactant at 0.125% v/v. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	3	triforine	Funginex DC 190 EC	1.7-3.0 L/ha, see label	1000 L/ha	60	0.5-6, see label	3 app	see label	Crop Stage: Begin at bud break. Application during or after early bloom may result in fruit russetting. Recommendations: The maximum residue limit is zero (0) in the USA. Funginex may still be used in Canada; however, treated blueberries are not suitable for shipment to the USA since they may contain Funginex residues.
	03, 09	difenoconazole + cyprodinil	Inspire Super EC	558-1475 mL/ha, see label	Minimum 200 L/ha	1	0.5	see label	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product where permitted.
	03, 11	azoxystrobin + propiconazole	Quilt SC	1.0 L/ha	Minimum 200 L/ha	30	0.5	4 app	7	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product for resistance management. Do not tank-mix or make sequential applications with Exirel.
	07, 03	fluopyram + prothioconazole	Propulse SC	750-1000 mL/ha, see label	Minimum 100 L/ha	7	1-3, see label	2 app, 2000 mL/ha	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	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 runoff. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	29	fluazinam	Allegro 500F 40 SC	1.46-2.24 L/ha, see label	300-1000 L/ha	30	1	2 app	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product 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	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. 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: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	BM02	streptomyces lydicus strain WYEC 108	Actinovate SP	425-840 g/ha, see label	200-1400 L/ha	0	0.2, when dry	-	7	Pest Stage: Begin preventatively. Coverage: Thorough, no runoff. Recommendations: Product provides suppression only. Do not combine with other products.
	M04	captan	Captan 480 SC	3.73 L/ha	1000 L/ha	8	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with products such as Exirel, Fontelis, or Timorex Gold.
	M04	captan	Captan 80 WSP	2.25 kg/ha	1000 L/ha	2-5, see label	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with products such as Exirel, Fontelis, or Timorex Gold.
	M04	captan	Captan L 482 SC	3.73 L/ha	1000 L/ha	8	0.5-8, see label	6 app	7	Pest Stage: Preventative.
	M04	captan	Maestro 80 WSP	2.25 kg/ha	1000 L/ha	2-5, see label	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil. Do not tank-mix or use in sequential application with Exirel or Fontelis.
	M04	captan	Sharda Captan 48 SC	3.75 L/ha	1000 L/ha	8	0.5-8, see label	6 app	7	Pest Stage: Preventative.
	M04	captan	Supra Captan 80 WSP	2.25 kg/ha	1000 L/ha	2-5, see label	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with products such as Exirel, Fontelis, or Timorex Gold.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate 2.0 SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Begin preventatively. Coverage: Thorough, to runoff. Pollinators: Toxic to bees. Recommendations: Product provides suppression only. Avoid application before rain.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Begin preventatively. Coverage: Thorough, to runoff. Pollinators: Toxic to bees. Recommendations: Product provides suppression only. Avoid application before rain.
	P05	Reynoutria sachalinensis	Regalia Maxx 20 SC	0.125-0.25% v/v, see label	400-800 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	P05	Reynoutria sachalinensis	Regalia Rx 5 SC	5.0-10.0 L/ha, see label	400-1000 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
Phomopsis	3	metconazole	Quash 480 SC	188 mL/ha	Minimum 200 L/ha	8	0.5	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not make more than two sequential applications.

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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	metconazole	Quash 50 WG	180 g/ha	Minimum 200 L/ha	7	0.5-3, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	03, 09	difenoconazole + cyprodinil	Inspire Super EC	558-1475 mL/ha, see label	Minimum 200 L/ha	1	0.5	see label	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product where permitted.
	07, 11	boscalid + pyraclostrobin	Pristine WG	1.3-1.6 kg/ha, see label	-	0-1, see label	0.5, when dry	4 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use with Exirel.
	07, 11	pyraclostrobin + fluxapyroxad	Merivon SC	400-800 mL/ha, see label	Minimum 100 L/ha	0.5-5, see label	0.5-8, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use with Exirel.
	09, 12	cyprodinil + fludioxinil	Switch 62.5 WG	775-975 g/ha, see label	Minimum 200 L/ha	1	0.5	3 app	7	Crop Stage: Begin during early bloom. Recommendations: One of the actives in this product is persistent and may carryover. It is recommended that any products containing fludioxinil not be used in areas treated with this product during the previous season.
	11	pyraclostrobin	Cabrio EG 20 WG	1.0 kg/ha	Minimum 225 L/ha	1	0.5	4 app	10	Pest Stage: Begin preventatively. Recommendations: Do not make more than one application before alternating to a fungicide with a different mode of action. Do not tank-mix or make sequential applications with Exirel. FRAC Group 11 products should not make up more than half of the fungicide applications in a spray program.
	29	fluazinam	Allegro 500F 40 SC	1.46-2.24 L/ha, see label	300-1000 L/ha	30	1	2 app	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	M05	chlorothalonil	Echo 720 SC	5.0 L/ha	225-1600 L/ha	54	0.5-3, see label	2 app	7	Crop Stage: Green tip, pink bud, or petal fall.
	M05	chlorothalonil	Echo 90 WSP	4.0 kg/ha	225-1600 L/ha	54	0.5-3, see label	2 app	7	Crop Stage: Green tip, pink bud, or petal fall.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate 2.0 SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Begin preventatively. Coverage: Thorough, to runoff. Pollinators: Toxic to bees. Recommendations: Product provides suppression only. Avoid application before rain.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Begin preventatively. Coverage: Thorough, to runoff. Pollinators: Toxic to bees. Recommendations: Product provides suppression only. Avoid application before rain.
	P05	Reynoutria sachalinensis	Regalia Maxx 20 SC	0.125-0.25% v/v, see label	400-800 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	P05	Reynoutria sachalinensis	Regalia Rx 5 SC	5.0-10.0 L/ha, see label	400-1000 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	P07	fosetyl al	Aliette 80 WDG	5.6 kg/ha	300-1000 L/ha	1	0.5-3, see label	4 app	14	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	P07	mono- and di-potassium salts of Phosphorous Acid	Confine Extra 53 LI	4.0-5.0 L/ha, see label	Minimum 100 L/ha	1	0.5	5 app	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only.
Phytophthora root rot	P07	mono- and dibasic sodium, potassium, and ammonium phosphites	Phostrol 53.6 LI	2.9-5.8 L/ha, see label	Minimum 400 L/ha	0	0.5	4 app	14	Crop Stage: Begin at pink bud. Concentrate applications during periods of increased root growth (spring and early fall) and periods of high soil contact. Crop Safety: Product may cause crop injury in the form of marginal leaf necrosis and brown spots. Apply in a high water volume to minimize risk of injury. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Powdery mildew	3	myclobutanil	Nova 40 WSP	340 g/ha	Minimum 250 L/ha	1-6, see label	0.5	3 app	7	Pest Stage: Apply at first sign of disease. Crop Stage: Pre-bloom, bloom, and immediately post-bloom are the most critical times for control.
	07, 09	fluopyram + pyrimethanil	Luna Tranquility SC	1.2 L/ha	Minimum 500 L/ha	0	0.5	2 app, 4 L/ha, see label	7	Pest Stage: Begin preventatively. Apply repeat applications if conditions are wet. Recommendations: Rotate to a product from a different FRAC group after one application.
	M02,UN	sulphur	Microthiol Disperss 80 WP	6.72-16.8 kg/ha, see label	200-600 L/ha	1	1	8 app	10	Crop Stage: Begin before blossoms open. Recommendations: Do not use on sulphur-sensitive varieties. Do not apply if temperature will exceed 27°C and high humidity prevails within the three days following application, due to the risk of crop injury. Do not apply under intense sunshine. Do not apply when rain or night frost is expected. Crops are most sensitive during the flowering period. Do not mix with dinitro compounds, tetradifon or oils.
Spanworm	5	spinetoram	Delegate 25 WG	100-420 g/ha, see label	-	1-3, see label	0.5	3 app	see label	Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	18	tebufenozide	Confirm 240 F	1.0-1.2 L/ha, see label	Minimum 300 L/ha	14	0.5	4.6 L/ha	see label	Coverage: Thorough.
Winter moth	5	spinetoram	Delegate 25 WG	100-420 g/ha, see label	-	1-3, see label	0.5	3 app	see label	Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	5	spinosad	Entrust 240 SC	219-440 mL/ha, see label	300-500 L/ha	1-3, see label	0.5, when dry	3 app	see label	Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	5	spinosad	Success 480 SC	110-220 mL/ha, see label	300-500 L/ha	1-3, see label	0.5, when dry	3 app	see label	Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	18	methoxyfenozide	Intrepid 240 SC	500 mL/ha	Minimum 300 L/ha	7	0.5	4 app	7	Coverage: Thorough. Pollinators: Not toxic to bees.
	18	tebufenozide	Confirm 240 F	1.0-1.2 L/ha, see label	Minimum 300 L/ha	14	0.5	4.6 L/ha	see label	Coverage: Thorough.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	28	chlorantraniliprole	Altacor 35 WG	215-285 g/ha, see label	Minimum 200 L/ha	1	0.5	3 app, 645 g/ha	7	Pest Stage: At threshold. Coverage: Thorough. Recommendations: Use the higher rate for heavy pest pressure.
	28	cyantraniliprole	Exirel 100 SC	500-1500 mL/ha, see label	Minimum 200 L/ha	3	0.5	4 app, 4.5 L/ha	5	Pest Stage: At threshold. Coverage: Thorough. Use an MSO surfactant at 0.5-1.0% v/v for some pests - see label. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
05: BLOOM										
Anthracnose	3	metconazole	Quash 480 SC	188 mL/ha	Minimum 200 L/ha	8	0.5	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not make more than two sequential applications.
	3	metconazole	Quash 50 WG	180 g/ha	Minimum 200 L/ha	7	0.5-3, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	03, 09	difenoconazole + cyprodinil	Inspire Super EC	558-1475 mL/ha, see label	Minimum 200 L/ha	1	0.5	see label	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product where permitted.
	03, 11	azoxystrobin + propiconazole	Quilt SC	1.0 L/ha	Minimum 200 L/ha	30	0.5	4 app	7	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product for resistance management. Do not tank-mix or make sequential applications with Exirel.
	07, 11	boscalid + pyraclostrobin	Pristine WG	1.3-1.6 kg/ha, see label	-	0-1, see label	0.5, when dry	4 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use with Exirel.
	07, 11	pyraclostrobin + fluxapyroxad	Merivon SC	400-800 mL/ha, see label	Minimum 100 L/ha	0.5-5, see label	0.5-8, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use with Exirel.
	09, 12	cyprodinil + fluodioxinil	Switch 62.5 WG	775-975 g/ha, see label	Minimum 200 L/ha	1	0.5	3 app	7	Crop Stage: Begin during early bloom. Recommendations: One of the actives in this product is persistent and may carryover. It is recommended that any products containing fluodioxinil not be used in areas treated with this product during the previous season.
	11	pyraclostrobin	Cabrio EG 20 WG	1.0 kg/ha	Minimum 225 L/ha	1	0.5	4 app	10	Pest Stage: Begin preventatively. Recommendations: Do not make more than one application before alternating to a fungicide with a different mode of action. Do not tank-mix or make sequential applications with Exirel. FRAC Group 11 products should not make up more than half of the fungicide applications in a spray program.
	29	fluazinam	Allegro 500F 40 SC	1.46-2.24 L/ha, see label	300-1000 L/ha	30	1	2 app	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.

Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	M05	chlorothalonil	Echo 720 SC	5.0 L/ha	225-1600 L/ha	54	0.5-3, see label	2 app	7	Crop Stage: Green tip, pink bud, or petal fall.
	M05	chlorothalonil	Echo 90 WSP	4.0 kg/ha	225-1600 L/ha	54	0.5-3, see label	2 app	7	Crop Stage: Green tip, pink bud, or petal fall.
	P05	Reynoutria sachalinensis	Regalia Maxx 20 SC	0.125-0.25% v/v, see label	400-800 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	P07	fosetyl al	Aliette 80 WDG	5.6 kg/ha	300-1000 L/ha	1	0.5-3, see label	4 app	14	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	P07	mono- and di-potassium salts of Phosphorous Acid	Confine Extra 53 LI	4.0-5.0 L/ha, see label	Minimum 100 L/ha	1	0.5	5 app	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only.
Aphids	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	Crop Stage: Do not apply during bloom. Coverage: Thorough, no runoff. Pollinators: Toxic to bees.
	04, 15	acetamiprid and novaluron	Cormoran EC	700-1400 mL/ha, see label	Minimum 200 L/ha	8	0.5	3 app	10	Pollinators: Toxic to bees. Recommendations: Some phytotoxic symptoms to foliage (mottled chlorosis) may occur when product is applied under conditions of high temperatures and/or drought stress, particularly during periods of new, tender shoot growth. These symptoms will not occur on future growth and will not affect fruiting or yield.
	04A	imidacloprid	Admire 240 SC	175-350 mL/ha, see label	Maximum 1000 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply until petal fall. When applying after petal fall, renovation of woody plants (cutting back of old growth) must occur after harvest and before the next season's bloom. Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
	04C	sulfoxaflor	Closer 240 SC	100-400 mL/ha, see label	200-1000 L/ha	1	0.5	2-3 app, see label	7	Pest Stage: At threshold. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	04D	flupyradifurone	Sivanto Prime 200 SN	500-1000 mL/ha, see label	Minimum 100 L/ha	3	0.5	2000 mL/ha	7	Pollinators: Toxic to some bees. Recommendations: Do not apply more than two Group 4A products per season.
	23	spirotetramat	Movento 240 SC	220-585 mL/ha, see label	200-3000 L/ha	7	0.5	1.83 L/ha	7	Crop Stage: Post-bloom. Pollinators: Toxic to bee brood. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Armyworm cutworm	18	tebufenozide	Confirm 240 F	1.0-1.2 L/ha, see label	Minimum 300 L/ha	14	0.5	4.6 L/ha	see label	Coverage: Thorough.
Bacterial blight	M02	copper octanoate	Cueva 1.8 SN	0.5-2.0% v/v, see label	470-940 L/ha	1	0.2	-	7	Crop Stage: Begin at start of flowering.
	M02	copper oxychloride	Copper Spray Fungicide 50 WP	2.0-4.0 kg/ha, see label	500-1000 L/ha	2	2	6 app	see label	Crop Stage: Apply before fall rains, at 50% leaf fall, at bud burst, then at 14 day intervals during wet weather.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
Botrytis grey mould	3	mefentrifluconazole	Cevya 400 SC	250 mL/ha	Minimum 100 L/ha	0	0.5	1.0 L/ha	7	Pest Stage: Begin preventatively. Coverage: Thorough. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	03, 09	difenoconazole + cyprodinil	Inspire Super EC	558-1475 mL/ha, see label	Minimum 200 L/ha	1	0.5	see label	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product where permitted.
	7	boscalid	Cantus 70 WDG	560 g/ha	Minimum 100 L/ha	0	0.5	4 app	7	Pest Stage: Begin preventatively.
	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. Rotate to a product from a different FRAC group after one application.
	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 early flowering. Recommendations: Rotate to a product from 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, 4 L/ha, see label	7	Pest Stage: Begin preventatively. Apply repeat applications if conditions are wet. Recommendations: Rotate to a product from a different FRAC group after one application.
	07, 11	boscalid + pyraclostrobin	Pristine WG	1.3-1.6 kg/ha, see label	-	0-1, see label	0.5, when dry	4 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use with Exirel.
	07, 11	pyraclostrobin + fluxapyroxad	Merivon SC	400-800 mL/ha, see label	Minimum 100 L/ha	0.5-5, see label	0.5-8, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use with Exirel.
	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.
	09, 12	cyprodinil + fluodioxinil	Switch 62.5 WG	775-975 g/ha, see label	Minimum 200 L/ha	1	0.5	3 app	7	Crop Stage: Begin during early bloom. Recommendations: One of the actives in this product is persistent and may carryover. It is recommended that any products containing fludioxonil not be used in areas treated with this product during the previous season.
	17	fenhexamid	Elevate 50 WDG	1.7 kg/ha	500-1500 L/ha	1	0.5	4 app	7	Crop Stage: Begin at 10% bloom. Recommendations: Do not spray more than two consecutive applications.
	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 runoff. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
29	fluazinam	Allegro 500F 40 SC	1.46-2.24 L/ha, see label	300-1000 L/ha	30	1	2 app	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product 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
	BM01	BLAD polypeptide	ProBlad 20 SC	1.5-3.3 L/ha, see label	Minimum 450 L/ha	0	-	5 app	7	Crop Stage: Begin at early bloom. Recommendations: Maintain tank agitation through application. Do not make more than two sequential applications before alternating to a product from a different FRAC group.
	BM01	tea tree oil	Timorex Gold 24 E	1.5-2.0 L/ha, see label	400-800 L/ha	2	0.2, when dry	-	7	Recommendations: Apply in slow drying conditions for best uptake of spray solution and product effectiveness. Do not tank-mix with Supra Captan 80 WSP, Maestro 80 WSP, or sulphur products.
	BM 01	Swinglea glutinosa	EcoSwing 82 SN	1.75-2.35 L/ha, 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 D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. 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: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	M04	captan	Captan 480 SC	3.73 L/ha	1000 L/ha	8	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with products such as Exirel, Fontelis, or Timorex Gold.
	M04	captan	Captan 80 WSP	2.25 kg/ha	1000 L/ha	2-5, see label	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with products such as Exirel, Fontelis, or Timorex Gold.
	M04	captan	Captan L 482 SC	3.73 L/ha	1000 L/ha	8	0.5-8, see label	6 app	7	Pest Stage: Preventative.
	M04	captan	Maestro 80 WSP	2.25 kg/ha	1000 L/ha	2-5, see label	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil. Do not tank-mix or use in sequential application with Exirel or Fontelis.
	M04	captan	Sharda Captan 48 SC	3.75 L/ha	1000 L/ha	8	0.5-8, see label	6 app	7	Pest Stage: Preventative.
	M04	captan	Supra Captan 80 WSP	2.25 kg/ha	1000 L/ha	2-5, see label	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with products such as Exirel, Fontelis, or Timorex Gold.
	NC	Aureobasidium pullulans DSM 14940 and DSM 14941	Botector WG	750-1000 g/ha, see label	500-2000 L/ha	0	0.2, when dry	6 app	7	Recommendations: Product provides suppression only. Do not apply within 3 days of another pesticide application. Do not use with Switch.
	P05	Reynoutria sachalinensis	Regalia Maxx 20 SC	0.125-0.25% v/v, see label	400-800 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	P05	Reynoutria sachalinensis	Regalia Rx 5 SC	5.0-10.0 L/ha, see label	400-1000 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
Cherry fruitworm	11	bacillus thuringiensis	Bioprotec PLUS SC	0.9-1.8 L/ha, see label	Minimum 300 L/ha	0	0.2, when dry	4 app	5	Recommendations: Best results obtained if applications are made in the evening or on a cloudy day and if no rain is received for 24-48 hours after application.
Cranberry fruitworm	11	bacillus thuringiensis	Bioprotec PLUS SC	0.9-1.8 L/ha, see label	Minimum 300 L/ha	0	0.2, when dry	4 app	5	Recommendations: Best results obtained if applications are made in the evening or on a cloudy day and if no rain is received for 24-48 hours after application.
Monilinia blight	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.
Phomopsis	3	metconazole	Quash 480 SC	188 mL/ha	Minimum 200 L/ha	8	0.5	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not make more than two sequential applications.
	3	metconazole	Quash 50 WG	180 g/ha	Minimum 200 L/ha	7	0.5-3, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	03, 09	difenoconazole + cyprodinil	Inspire Super EC	558-1475 mL/ha, see label	Minimum 200 L/ha	1	0.5	see label	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product where permitted.
	03, 11	azoxystrobin + propiconazole	Quilt SC	1.0 L/ha	Minimum 200 L/ha	30	0.5	4 app	7	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product for resistance management. Do not tank-mix or make sequential applications with Exirel.
	07, 11	boscalid + pyraclostrobin	Pristine WG	1.3-1.6 kg/ha, see label	-	0-1, see label	0.5, when dry	4 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use with Exirel.
	07, 11	pyraclostrobin + fluxapyroxad	Merivon SC	400-800 mL/ha, see label	Minimum 100 L/ha	0.5-5, see label	0.5-8, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use with Exirel.
	09, 12	cyprodinil + fluodioxinil	Switch 62.5 WG	775-975 g/ha, see label	Minimum 200 L/ha	1	0.5	3 app	7	Crop Stage: Begin during early bloom. Recommendations: One of the actives in this product is persistent and may carryover. It is recommended that any products containing fluodioxinil not be used in areas treated with this product during the previous season.
	11	pyraclostrobin	Cabrio EG 20 WG	1.0 kg/ha	Minimum 225 L/ha	1	0.5	4 app	10	Pest Stage: Begin preventatively. Recommendations: Do not make more than one application before alternating to a fungicide with a different mode of action. Do not tank-mix or make sequential applications with Exirel. FRAC Group 11 products should not make up more than half of the fungicide applications in a spray program.
	29	fluazinam	Allegro 500F 40 SC	1.46-2.24 L/ha, see label	300-1000 L/ha	30	1	2 app	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	M05	chlorothalonil	Echo 720 SC	5.0 L/ha	225-1600 L/ha	54	0.5-3, see label	2 app	7	Crop Stage: Green tip, pink bud, or petal fall.
M05	chlorothalonil	Echo 90 WSP	4.0 kg/ha	225-1600 L/ha	54	0.5-3, see label	2 app	7	Crop Stage: Green tip, pink bud, or petal fall.	

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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	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Begin preventatively. Coverage: Thorough, to runoff. Pollinators: Toxic to bees. Recommendations: Product provides suppression only. Avoid application before rain.
	NC	hydrogen peroxide + peroxyacetic acid	OxiDate SN	1.0% v/v	-	0	0.2, when dry	8 app	5	Pest Stage: Begin preventatively. Coverage: Thorough, to runoff. Pollinators: Toxic to bees. Recommendations: Product provides suppression only. Avoid application before rain.
	P05	Reynoutria sachalinensis	Regalia Maxx 20 SC	0.125-0.25% v/v, see label	400-800 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	P05	Reynoutria sachalinensis	Regalia Rx 5 SC	5.0-10.0 L/ha, see label	400-1000 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	P07	fosetyl al	Aliette 80 WDG	5.6 kg/ha	300-1000 L/ha	1	0.5-3, see label	4 app	14	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	P07	mono- and di-potassium salts of Phosphorous Acid	Confine Extra 53 LI	4.0-5.0 L/ha, see label	Minimum 100 L/ha	1	0.5	5 app	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only.
Phytophthora root rot	P07	mono- and dibasic sodium, potassium, and ammonium phosphites	Phostrol 53.6 LI	2.9-5.8 L/ha, see label	Minimum 400 L/ha	0	0.5	4 app	14	Crop Stage: Begin at pink bud. Concentrate applications during periods of increased root growth (spring and early fall) and periods of high soil contact. Crop Safety: Product may cause crop injury in the form of marginal leaf necrosis and brown spots. Apply in a high water volume to minimize risk of injury. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Powdery mildew	3	myclobutanil	Nova 40 WSP	340 g/ha	Minimum 250 L/ha	1-6, see label	0.5	3 app	7	Pest Stage: Apply at first sign of disease. Crop Stage: Pre-bloom, bloom, and immediately post-bloom are the most critical times for control.
	07, 09	fluopyram + pyrimethanil	Luna Tranquility SC	1.2 L/ha	Minimum 500 L/ha	0	0.5	2 app, 4 L/ha, see label	7	Pest Stage: Begin preventatively. Apply repeat applications if conditions are wet. Recommendations: Rotate to a product from a different FRAC group after one application.
	M02,UN	sulphur	Microthiol Disperss 80 WP	6.72-16.8 kg/ha, see label	200-600 L/ha	1	1	8 app	10	Crop Stage: Begin before blossoms open. Recommendations: Do not use on sulphur-sensitive varieties. Do not apply if temperature will exceed 27°C and high humidity prevails within the three days following application, due to the risk of crop injury. Do not apply under intense sunshine. Do not apply when rain or night frost is expected. Crops are most sensitive during the flowering period. Do not mix with dinitro compounds, tetradifon or oils.
Spanworm	5	spinetoram	Delegate 25 WG	100-420 g/ha, see label	-	1-3, see label	0.5	3 app	see label	Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	18	tebufenozide	Confirm 240 F	1.0-1.2 L/ha, see label	Minimum 300 L/ha	14	0.5	4.6 L/ha	see label	Coverage: Thorough.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
Valdensinia leaf spot	3	prothioconazole	Proline 480 SC	315-420 mL/ha, see label	Minimum 100 L/ha	7	1-3, see label	2 app	see label	Coverage: Use a non-ionic surfactant at 0.125% v/v. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	03, 11	azoxystrobin + propiconazole	Quilt SC	1.0 L/ha	Minimum 200 L/ha	30	0.5	4 app	7	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product for resistance management. Do not tank-mix or make sequential applications with Exirel.
	07, 03	fluopyram + prothioconazole	Propulse SC	750-1000 mL/ha, see label	Minimum 100 L/ha	7	1-3, see label	2 app, 2000 mL/ha	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
06: POST-BLOOM										
Anthracnose	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.
Aphids	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	Crop Stage: Do not apply during bloom. Coverage: Thorough, no runoff. Pollinators: Toxic to bees.
	04, 15	acetamiprid and novaluron	Cormoran EC	700-1400 mL/ha, see label	Minimum 200 L/ha	8	0.5	3 app	10	Pollinators: Toxic to bees. Recommendations: Some phytotoxic symptoms to foliage (mottled chlorosis) may occur when product is applied under conditions of high temperatures and/or drought stress, particularly during periods of new, tender shoot growth. These symptoms will not occur on future growth and will not affect fruiting or yield.
	04A	imidacloprid	Admire 240 SC	175-350 mL/ha, see label	Maximum 1000 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply until petal fall. When applying after petal fall, renovation of woody plants (cutting back of old growth) must occur after harvest and before the next season's bloom. Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
	04C	sulfoxaflor	Closer 240 SC	100-400 mL/ha, see label	200-1000 L/ha	1	0.5	2-3 app, see label	7	Pest Stage: At threshold. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	04D	flupyradifurone	Sivanto Prime 200 SN	500-1000 mL/ha, see label	Minimum 100 L/ha	3	0.5	2000 mL/ha	7	Pollinators: Toxic to some bees. Recommendations: Do not apply more than two Group 4A products per season.
	23	spirotetramat	Movento 240 SC	220-585 mL/ha, see label	200-3000 L/ha	7	0.5	1.83 L/ha	7	Crop Stage: Post-bloom. Pollinators: Toxic to bee brood. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Bacterial blight	M02	copper octanoate	Cueva 1.8 SN	0.5-2.0% v/v, see label	470-940 L/ha	1	0.2	-	7	Crop Stage: Begin at start of flowering.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	M02	copper oxychloride	Copper Spray Fungicide 50 WP	2.0-4.0 kg/ha, see label	500-1000 L/ha	2	2	6 app	see label	Crop Stage: Apply before fall rains, at 50% leaf fall, at bud burst, then at 14 day intervals during wet weather.
Botrytis grey mould	BM 01	Swinglea glutinosa	EcoSwing 82 SN	1.75-2.35 L/ha, 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 D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.
Cherry fruitworm	11	bacillus thuringiensis	Bioprotec PLUS SC	0.9-1.8 L/ha, see label	Minimum 300 L/ha	0	0.2, when dry	4 app	5	Recommendations: Best results obtained if applications are made in the evening or on a cloudy day and if no rain is received for 24-48 hours after application.
Cranberry fruitworm	11	bacillus thuringiensis	Bioprotec PLUS SC	0.9-1.8 L/ha, see label	Minimum 300 L/ha	0	0.2, when dry	4 app	5	Recommendations: Best results obtained if applications are made in the evening or on a cloudy day and if no rain is received for 24-48 hours after application.
Japanese beetle	01B	phosmet	Imidan 50 WP	2.25 kg/ha	1000 L/ha	15-17, see label	0.5-20, see label	1 app	-	Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage required. Pollinators: Toxic to bees.
	01B	phosmet	Imidan 70 WP	1.6 kg/ha	1000 L/ha	15-17, see label	0.5-20, see label	1 app	-	Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage required. Good residual control. Pollinators: Toxic to bees.
	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	3-15, see label	1-17, see label	2 app	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees.
	04A	imidacloprid	Admire 240 SC	175-350 mL/ha, see label	Maximum 1000 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply until petal fall. When applying after petal fall, renovation of woody plants (cutting back of old growth) must occur after harvest and before the next season's bloom. Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
Leafhoppers	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	3-15, see label	1-17, see label	2 app	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. 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	Crop Stage: Do not apply during bloom. Coverage: Thorough, no runoff. 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
	04A	imidacloprid	Admire 240 SC	175-350 mL/ha, see label	Maximum 1000 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply until petal fall. When applying after petal fall, renovation of woody plants (cutting back of old growth) must occur after harvest and before the next season's bloom. Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
	04C	sulfoxaflor	Closer 240 SC	100-400 mL/ha, see label	200-1000 L/ha	1	0.5	2-3 app, see label	7	Pest Stage: At threshold. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Monilinia blight	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.
Phytophthora root rot	P07	mono- and dibasic sodium, potassium, and ammonium phosphites	Phostrol 53.6 LI	2.9-5.8 L/ha, see label	Minimum 400 L/ha	0	0.5	4 app	14	Crop Stage: Begin at pink bud. Concentrate applications during periods of increased root growth (spring and early fall) and periods of high soil contact. Crop Safety: Product may cause crop injury in the form of marginal leaf necrosis and brown spots. Apply in a high water volume to minimize risk of injury. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Scale	23	spirotetramat	Movento 240 SC	220-585 mL/ha, see label	200-3000 L/ha	7	0.5	1.83 L/ha	7	Crop Stage: Post-bloom. Pollinators: Toxic to bee brood. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Two-spotted spider mite	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	3-15, see label	1-17, see label	2 app	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees.
	20B	acequinocyl	Kanemite 15 SC	2.07 L/ha	1000-1900 L/ha	1	0.5	2 app	21	Pest Stage: At threshold. Coverage: Thorough, to runoff.
	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.
Valdensinia leaf spot	3	prothioconazole	Proline 480 SC	315-420 mL/ha, see label	Minimum 100 L/ha	7	1-3, see label	2 app	see label	Coverage: Use a non-ionic surfactant at 0.125% v/v. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	03, 11	azoxystrobin + propiconazole	Quilt SC	1.0 L/ha	Minimum 200 L/ha	30	0.5	4 app	7	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product for resistance management. Do not tank-mix or make sequential applications with Exirel.
	07, 03	fluopyram + prothioconazole	Propulse SC	750-1000 mL/ha, see label	Minimum 100 L/ha	7	1-3, see label	2 app, 2000 mL/ha	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product 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
Weevils	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	3-15, see label	1-17, see label	2 app	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. 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 until petal fall. When applying after petal fall, renovation of woody plants (cutting back old growth) must occur after harvest and before the next season's bloom. Pollinators: Toxic to bees.
07: GREEN FRUIT TO FRUIT RIPENING										
Anthracnose	3	metconazole	Quash 480 SC	188 mL/ha	Minimum 200 L/ha	8	0.5	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not make more than two sequential applications.
	3	metconazole	Quash 50 WG	180 g/ha	Minimum 200 L/ha	7	0.5-3, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	03, 09	difenoconazole + cyprodinil	Inspire Super EC	558-1475 mL/ha, see label	Minimum 200 L/ha	1	0.5	see label	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product where permitted.
	07, 11	boscalid + pyraclostrobin	Pristine WG	1.3-1.6 kg/ha, see label	-	0-1, see label	0.5, when dry	4 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use with Exirel.
	07, 11	pyraclostrobin + fluxapyroxad	Merivon SC	400-800 mL/ha, see label	Minimum 100 L/ha	0.5-5, see label	0.5-8, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use with Exirel.
	09, 12	cyprodinil + fluodioxinil	Switch 62.5 WG	775-975 g/ha, see label	Minimum 200 L/ha	1	0.5	3 app	7	Crop Stage: Begin during early bloom. Recommendations: One of the actives in this product is persistent and may carryover. It is recommended that any products containing fludioxonil not be used in areas treated with this product during the previous season.
	11	pyraclostrobin	Cabrio EG 20 WG	1.0 kg/ha	Minimum 225 L/ha	1	0.5	4 app	10	Pest Stage: Begin preventatively. Recommendations: Do not make more than one application before alternating to a fungicide with a different mode of action. Do not tank-mix or make sequential applications with Exirel. FRAC Group 11 products should not make up more than half of the fungicide applications in a spray program.
	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.
NC	Aureobasidium pullulans DSM 14940 and DSM 14941	Botector WG	750-1000 g/ha, see label	500-2000 L/ha	0	0.2, when dry	6 app	7	Recommendations: Product provides suppression only. Do not apply within 3 days of another pesticide application. Do not use with Switch.	
P05	Reynoutria sachalinensis	Regalia Maxx 20 SC	0.125-0.25% v/v, see label	400-800 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.	

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	P05	Reynoutria sachalinensis	Regalia Rx 5 SC	5.0-10.0 L/ha, see label	400-1000 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
Aphids	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	Crop Stage: Do not apply during bloom. Coverage: Thorough, no runoff. Pollinators: Toxic to bees.
	04, 15	acetamiprid and novaluron	Cormoran EC	700-1400 mL/ha, see label	Minimum 200 L/ha	8	0.5	3 app	10	Pollinators: Toxic to bees. Recommendations: Some phytotoxic symptoms to foliage (mottled chlorosis) may occur when product is applied under conditions of high temperatures and/or drought stress, particularly during periods of new, tender shoot growth. These symptoms will not occur on future growth and will not affect fruiting or yield.
	04A	imidacloprid	Admire 240 SC	175-350 mL/ha, see label	Maximum 1000 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply until petal fall. When applying after petal fall, renovation of woody plants (cutting back of old growth) must occur after harvest and before the next season's bloom. Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
	04C	sulfoxaflor	Closer 240 SC	100-400 mL/ha, see label	200-1000 L/ha	1	0.5	2-3 app, see label	7	Pest Stage: At threshold. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	04D	flupyradifurone	Sivanto Prime 200 SN	500-1000 mL/ha, see label	Minimum 100 L/ha	3	0.5	2000 mL/ha	7	Pollinators: Toxic to some bees. Recommendations: Do not apply more than two Group 4A products per season.
	23	spirotetramat	Movento 240 SC	220-585 mL/ha, see label	200-3000 L/ha	7	0.5	1.83 L/ha	7	Crop Stage: Post-bloom. Pollinators: Toxic to bee brood. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Bacterial blight	M02	copper octanoate	Cueva 1.8 SN	0.5-2.0% v/v, see label	470-940 L/ha	1	0.2	-	7	Crop Stage: Begin at start of flowering.
	M02	copper oxychloride	Copper Spray Fungicide 50 WP	2.0-4.0 kg/ha, see label	500-1000 L/ha	2	2	6 app	see label	Crop Stage: Apply before fall rains, at 50% leaf fall, at bud burst, then at 14 day intervals during wet weather.
Blueberry maggot fly	01B	dimethoate	Cygon 480-AG EC	830 mL/ha	Maximum 1000 L/ha	21	0.5	2 app	see label	Crop Stage: Do not apply during bloom or during the 5-day period before bloom. For spotted wing drosophila, apply post-harvest only. Coverage: Residual activity is 10-12 days. Pollinators: Toxic to bees. Recommendations: Do not use on crops destined for US markets due to a very low limit for residual dimethoate.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	01B	dimethoate	Lagon 480 E	580-830 mL/ha, see label	Maximum 1000 L/ha	9-21, see label	0.5-12, see label	2 app	see label	Crop Stage: Do not apply during bloom or during the 5-day period before bloom. For spotted wing drosophila, apply post-harvest only. Coverage: Residual activity is 10-12 days. Pollinators: Toxic to bees. Recommendations: Do not use on crops destined for US markets due to a very low limit for residual dimethoate.
	01B	malathion	Malathion 85 E	550-2500 mL/ha, see label	1000 L/ha	1-2, see label	0.5-1, see label	2-3 app, see label	see label	Coverage: Contact insecticide. Thorough coverage required. Residual activity for 5-7 days. Pollinators: Toxic to bees.
	01B	phosmet	Imidan 70 WP	1.6 kg/ha	1000 L/ha	15-17, see label	0.5-20, see label	1 app	-	Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage required. Good residual control. Pollinators: Toxic to bees.
	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	3-15, see label	1-17, see label	2 app	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees.
	4	acetamiprid	Aceta 70 WP	56-160 g/ha, see label	Minimum 187 L/ha	7	0.5-2, see label	4 app	12	Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
	4	acetamiprid	Assail 70 WP	56-160 g/ha, see label	Minimum 187 L/ha	1-7, see label	0.5-2, see label	4 app	12	Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
	04, 15	acetamiprid and novaluron	Cormoran EC	700-1400 mL/ha, see label	Minimum 200 L/ha	8	0.5	3 app	10	Pollinators: Toxic to bees. Recommendations: Some phytotoxic symptoms to foliage (mottled chlorosis) may occur when product is applied under conditions of high temperatures and/or drought stress, particularly during periods of new, tender shoot growth. These symptoms will not occur on future growth and will not affect fruiting or yield.
	04A	imidacloprid	Admire 240 SC	175-350 mL/ha, see label	Maximum 1000 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply until petal fall. When applying after petal fall, renovation of woody plants (cutting back of old growth) must occur after harvest and before the next season's bloom. Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
	04D	flupyradifurone	Sivanto Prime 200 SN	500-1000 mL/ha, see label	Minimum 100 L/ha	3	0.5	2000 mL/ha	7	Pollinators: Toxic to some bees. Recommendations: Do not apply more than two Group 4A products per season.
	5	spinosad	Entrust 240 SC	219-440 mL/ha, see label	300-500 L/ha	1-3, see label	0.5, when dry	3 app	see label	Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product 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
	5	spinosad	GF-120 Fruit Fly Bait SN	1.0-1.5 L/ha, see label	See label	-	0.5, when dry	5 app	-	Crop Stage: Post-bloom. Coverage: Apply to one side of every row. Pollinators: Toxic to bees.
	5	spinosad	Success 480 SC	110-220 mL/ha, see label	300-500 L/ha	1-3, see label	0.5, when dry	3 app	see label	Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	23	spirotetramat	Movento 240 SC	220-585 mL/ha, see label	200-3000 L/ha	7	0.5	1.83 L/ha	7	Crop Stage: Post-bloom. Pollinators: Toxic to bee brood. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	28	cyantranilprole	Exirel 100 SC	500-1500 mL/ha, see label	Minimum 200 L/ha	3	0.5	4 app, 4.5 L/ha	5	Pest Stage: At threshold. Coverage: Thorough. Use an MSO surfactant at 0.5-1.0% v/v for some pests - see label. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Botrytis grey mould	3	mefenitruconazole	Cevya 400 SC	250 mL/ha	Minimum 100 L/ha	0	0.5	1.0 L/ha	7	Pest Stage: Begin preventatively. Coverage: Thorough. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	03, 09	difenoconazole + cyprodinil	Inspire Super EC	558-1475 mL/ha, see label	Minimum 200 L/ha	1	0.5	see label	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product where permitted.
	7	boscalid	Cantus 70 WDG	560 g/ha	Minimum 100 L/ha	0	0.5	4 app	7	Pest Stage: Begin preventatively.
	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. Rotate to a product from a different FRAC group after one application.
	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 early flowering. Recommendations: Rotate to a product from 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, 4 L/ha, see label	7	Pest Stage: Begin preventatively. Apply repeat applications if conditions are wet. Recommendations: Rotate to a product from a different FRAC group after one application.
	07, 11	boscalid + pyraclostrobin	Pristine WG	1.3-1.6 kg/ha, see label	-	0-1, see label	0.5, when dry	4 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use with Exirel.
	07, 11	pyraclostrobin + fluxapyroxad	Merivon SC	400-800 mL/ha, see label	Minimum 100 L/ha	0.5-5, see label	0.5-8, see label	3 app	7	Pest Stage: Begin preventatively. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not use with Exirel.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	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.
	09, 12	cyprodinil + fluodioxinil	Switch 62.5 WG	775-975 g/ha, see label	Minimum 200 L/ha	1	0.5	3 app	7	Crop Stage: Begin during early bloom. Recommendations: One of the actives in this product is persistent and may carryover. It is recommended that any products containing fluodioxinil not be used in areas treated with this product during the previous season.
	17	fenhexamid	Elevate 50 WDG	1.7 kg/ha	500-1500 L/ha	1	0.5	4 app	7	Crop Stage: Begin at 10% bloom. Recommendations: Do not spray more than two consecutive applications.
	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 runoff. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	29	fluazinam	Allegro 500F 40 SC	1.46-2.24 L/ha, see label	300-1000 L/ha	30	1	2 app	7	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	BM01	BLAD polypeptide	ProBlad 20 SC	1.5-3.3 L/ha, see label	Minimum 450 L/ha	0	-	5 app	7	Crop Stage: Begin at early bloom. Recommendations: Maintain tank agitation through application. Do not make more than two sequential applications before alternating to a product from a different FRAC group.
	BM01	tea tree oil	Timorex Gold 24 E	1.5-2.0 L/ha, see label	400-800 L/ha	2	0.2, when dry	-	7	Recommendations: Apply in slow drying conditions for best uptake of spray solution and product effectiveness. Do not tank-mix with Supra Captan 80 WSP, Maestro 80 WSP, or sulphur products.
	BM 01	Swinglea glutinosa	EcoSwing 82 SN	1.75-2.35 L/ha, 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 D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. 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: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	M04	captan	Captan 480 SC	3.73 L/ha	1000 L/ha	8	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with products such as Exirel, Fontelis, or Timorex Gold.
	M04	captan	Captan 80 WSP	2.25 kg/ha	1000 L/ha	2-5, see label	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with products such as Exirel, Fontelis, or Timorex Gold.
	M04	captan	Captan L 482 SC	3.73 L/ha	1000 L/ha	8	0.5-8, see label	6 app	7	Pest Stage: Preventative.
	M04	captan	Maestro 80 WSP	2.25 kg/ha	1000 L/ha	2-5, see label	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil. Do not tank-mix or use in sequential application with Exirel or Fontelis.

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	M04	captan	Sharda Captan 48 SC	3.75 L/ha	1000 L/ha	8	0.5-8, see label	6 app	7	Pest Stage: Preventative.
	M04	captan	Supra Captan 80 WSP	2.25 kg/ha	1000 L/ha	2-5, see label	0.5-6, see label	6 app	7	Pest Stage: Begin preventatively. Recommendations: Do not use within 14 days of oil or as a tank-mix or sequential application with products such as Exirel, Fontelis, or Timorex Gold.
	NC	Aureobasidium pullulans DSM 14940 and DSM 14941	Botector WG	750-1000 g/ha, see label	500-2000 L/ha	0	0.2, when dry	6 app	7	Recommendations: Product provides suppression only. Do not apply within 3 days of another pesticide application. Do not use with Switch.
	P05	Reynoutria sachalinensis	Regalia Maxx 20 SC	0.125-0.25% v/v, see label	400-800 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
	P05	Reynoutria sachalinensis	Regalia Rx 5 SC	5.0-10.0 L/ha, see label	400-1000 L/ha	0	0.5, when dry	-	7	Pest Stage: Begin preventatively. Recommendations: Product provides suppression only. For best results, use multiple applications or rotate with other products.
Cherry fruitworm	01A	carbaryl	Sevin XLR 43 SC	4.0 L/ha	1200-1500 L/ha	2-9, see label	5-9, see label	2 app	8	Crop Stage: Do not apply during bloom. Coverage: Residual activity may last 5-7 days. Pollinators: Toxic to bees.
	01B	malathion	Malathion 85 E	550-2500 mL/ha, see label	1000 L/ha	1-2, see label	0.5-1, see label	2-3 app, see label	see label	Coverage: Contact insecticide. Thorough coverage required. Residual activity for 5-7 days. Pollinators: Toxic to bees.
	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	3-15, see label	1-17, see label	2 app	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees.
	4	acetamiprid	Aceta 70 WP	56-160 g/ha, see label	Minimum 187 L/ha	7	0.5-2, see label	4 app	12	Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
	4	acetamiprid	Assail 70 WP	56-160 g/ha, see label	Minimum 187 L/ha	1-7, see label	0.5-2, see label	4 app	12	Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
	04, 15	acetamiprid and novaluron	Cormoran EC	700-1400 mL/ha, see label	Minimum 200 L/ha	8	0.5	3 app	10	Pollinators: Toxic to bees. Recommendations: Some phytotoxic symptoms to foliage (mottled chlorosis) may occur when product is applied under conditions of high temperatures and/or drought stress, particularly during periods of new, tender shoot growth. These symptoms will not occur on future growth and will not affect fruiting or yield.
	11	Bacillus thuringiensis	Dipel 2X DF	525-1680 g/ha, see label	600 L/ha	0	0.2, when dry	4 app	-	Coverage: Thorough. Recommendations: Best results obtained if applications are made in the evening or on a cloudy day.
	15	novaluron	Rimon 10 EC	1.35-2.0 L/ha, see label	400-1100 L/ha	8	0.5	3 app	10	Pest Stage: Egg hatch to second instar. Pollinators: May be toxic to bees.
18	methoxyfenozide	Intrepid 240 SC	500 mL/ha	Minimum 300 L/ha	7	0.5	4 app	7	Coverage: Thorough. Pollinators: Not 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
	18	tebufenozide	Confirm 240 F	1.0-1.2 L/ha, see label	Minimum 300 L/ha	14	0.5	4.6 L/ha	see label	Coverage: Thorough.
	28	chlorantraniliprole	Altacor 35 WG	215-285 g/ha, see label	Minimum 200 L/ha	1	0.5	3 app, 645 g/ha	7	Pest Stage: At threshold. Coverage: Thorough. Recommendations: Use the higher rate for heavy pest pressure.
	28	cyantraniliprole	Exirel 100 SC	500-1500 mL/ha, see label	Minimum 200 L/ha	3	0.5	4 app, 4.5 L/ha	5	Pest Stage: At threshold. Coverage: Thorough. Use an MSO surfactant at 0.5-1.0% v/v for some pests - see label. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Cranberry fruitworm	01A	carbaryl	Sevin XLR 43 SC	4.0 L/ha	1200-1500 L/ha	2-9, see label	5-9, see label	2 app	8	Crop Stage: Do not apply during bloom. Coverage: Residual activity may last 5-7 days. Pollinators: Toxic to bees.
	01B	malathion	Malathion 85 E	550-2500 mL/ha, see label	1000 L/ha	1-2, see label	0.5-1, see label	2-3 app, see label	see label	Coverage: Contact insecticide. Thorough coverage required. Residual activity for 5-7 days. Pollinators: Toxic to bees.
	4	acetamiprid	Aceta 70 WP	56-160 g/ha, see label	Minimum 187 L/ha	7	0.5-2, see label	4 app	12	Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
	4	acetamiprid	Assail 70 WP	56-160 g/ha, see label	Minimum 187 L/ha	1-7, see label	0.5-2, see label	4 app	12	Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
	04, 15	acetamiprid and novaluron	Cormoran EC	700-1400 mL/ha, see label	Minimum 200 L/ha	8	0.5	3 app	10	Pollinators: Toxic to bees. Recommendations: Some phytotoxic symptoms to foliage (mottled chlorosis) may occur when product is applied under conditions of high temperatures and/or drought stress, particularly during periods of new, tender shoot growth. These symptoms will not occur on future growth and will not affect fruiting or yield.
	11	Bacillus thuringiensis	Dipel 2X DF	525-1680 g/ha, see label	600 L/ha	0	0.2, when dry	4 app	-	Coverage: Thorough. Recommendations: Best results obtained if applications are made in the evening or on a cloudy day.
	15	novaluron	Rimon 10 EC	1.35-2.0 L/ha, see label	400-1100 L/ha	8	0.5	3 app	10	Pest Stage: Egg hatch to second instar. Pollinators: May be toxic to bees.
	18	methoxyfenozide	Intrepid 240 SC	500 mL/ha	Minimum 300 L/ha	7	0.5	4 app	7	Coverage: Thorough. Pollinators: Not toxic to bees.
	18	tebufenozide	Confirm 240 F	1.0-1.2 L/ha, see label	Minimum 300 L/ha	14	0.5	4.6 L/ha	see label	Coverage: Thorough.
28	chlorantraniliprole	Altacor 35 WG	215-285 g/ha, see label	Minimum 200 L/ha	1	0.5	3 app, 645 g/ha	7	Pest Stage: At threshold. Coverage: Thorough. Recommendations: Use the higher rate for heavy pest pressure.	

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Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	28	cyantranilprole	Exirel 100 SC	500-1500 mL/ha, see label	Minimum 200 L/ha	3	0.5	4 app, 4.5 L/ha	5	Pest Stage: At threshold. Coverage: Thorough. Use an MSO surfactant at 0.5-1.0% v/v for some pests - see label. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Japanese beetle	01B	phosmet	Imidan 50 WP	2.25 kg/ha	1000 L/ha	15-17, see label	0.5-20, see label	1 app	-	Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage required. Pollinators: Toxic to bees.
	01B	phosmet	Imidan 70 WP	1.6 kg/ha	1000 L/ha	15-17, see label	0.5-20, see label	1 app	-	Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage required. Good residual control. Pollinators: Toxic to bees.
	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	3-15, see label	1-17, see label	2 app	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees.
	04A	imidacloprid	Admire 240 SC	175-350 mL/ha, see label	Maximum 1000 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply until petal fall. When applying after petal fall, renovation of woody plants (cutting back of old growth) must occur after harvest and before the next season's bloom. Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
Leafhoppers	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	3-15, see label	1-17, see label	2 app	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. 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	Crop Stage: Do not apply during bloom. Coverage: Thorough, no runoff. Pollinators: Toxic to bees.
	04A	imidacloprid	Admire 240 SC	175-350 mL/ha, see label	Maximum 1000 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply until petal fall. When applying after petal fall, renovation of woody plants (cutting back of old growth) must occur after harvest and before the next season's bloom. Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
	04C	sulfoxaflor	Closer 240 SC	100-400 mL/ha, see label	200-1000 L/ha	1	0.5	2-3 app, see label	7	Pest Stage: At threshold. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	5	spinosad	Entrust 240 SC	219-440 mL/ha, see label	300-500 L/ha	1-3, see label	0.5, when dry	3 app	see label	Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product 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
	5	spinosad	Success 480 SC	110-220 mL/ha, see label	300-500 L/ha	1-3, see label	0.5, when dry	3 app	see label	Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	11	Bacillus thuringiensis	Dipel 2X DF	525-1680 g/ha, see label	600 L/ha	0	0.2, when dry	4 app	-	Coverage: Thorough. Recommendations: Best results obtained if applications are made in the evening or on a cloudy day.
	18	methoxyfenozide	Intrepid 240 SC	500 mL/ha	Minimum 300 L/ha	7	0.5	4 app	7	Coverage: Thorough. Pollinators: Not toxic to bees.
	18	tebufenozide	Confirm 240 F	1.0-1.2 L/ha, see label	Minimum 300 L/ha	14	0.5	4.6 L/ha	see label	Coverage: Thorough.
	28	chlorantraniliprole	Altacor 35 WG	215-285 g/ha, see label	Minimum 200 L/ha	1	0.5	3 app, 645 g/ha	7	Pest Stage: At threshold. Coverage: Thorough. Recommendations: Use the higher rate for heavy pest pressure.
	28	cyantraniliprole	Exirel 100 SC	500-1500 mL/ha, see label	Minimum 200 L/ha	3	0.5	4 app, 4.5 L/ha	5	Pest Stage: At threshold. Coverage: Thorough. Use an MSO surfactant at 0.5-1.0% v/v for some pests - see label. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Monilinia blight	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.
Phytophthora root rot	P07	mono- and dibasic sodium, potassium, and ammonium phosphites	Phostrol 53.6 LI	2.9-5.8 L/ha, see label	Minimum 400 L/ha	0	0.5	4 app	14	Crop Stage: Begin at pink bud. Concentrate applications during periods of increased root growth (spring and early fall) and periods of high soil contact. Crop Safety: Product may cause crop injury in the form of marginal leaf necrosis and brown spots. Apply in a high water volume to minimize risk of injury. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Spotted wing drosophila	01B	malathion	Malathion 85 E	550-2500 mL/ha, see label	1000 L/ha	1-2, see label	0.5-1, see label	2-3 app, see label	see label	Coverage: Contact insecticide. Thorough coverage required. Residual activity for 5-7 days. Pollinators: Toxic to bees.
	01B	phosmet	Imidan 70 WP	1.6 kg/ha	1000 L/ha	15-17, see label	0.5-20, see label	1 app	-	Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage required. Good residual control. Pollinators: Toxic to bees.
	3	cypermethrin	Ship 250 EC	245-285 mL/ha, see label	-	2	0.5	2 app	7	Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees.
	3	cypermethrin	Up-cyde 2.5 EC	245-285 mL/ha, see label	-	2	0.5	2 app	7	Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees.
	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	3-15, see label	1-17, see label	2 app	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees.
	5	spinetoram	Delegate 25 WG	100-420 g/ha, see label	-	1-3, see label	0.5	3 app	see label	Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product 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
	5	spinosad	Entrust 240 SC	219-440 mL/ha, see label	300-500 L/ha	1-3, see label	0.5, when dry	3 app	see label	Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	5	spinosad	Success 480 SC	110-220 mL/ha, see label	300-500 L/ha	1-3, see label	0.5, when dry	3 app	see label	Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	28	cyantraniliprole	Exirel 100 SC	500-1500 mL/ha, see label	Minimum 200 L/ha	3	0.5	4 app, 4.5 L/ha	5	Pest Stage: At threshold. Coverage: Thorough. Use an MSO surfactant at 0.5-1.0% v/v for some pests - see label. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	28	cyclaniliprole	Harvanta 50 SL	1.2-1.6 L/ha, see label	200-1400 L/ha	1	0.5	3 app, 4.8 L/ha	5	Crop Stage: Avoid application during crop bloom. Coverage: Contact insecticide. Thorough coverage required. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Avoid spraying two group 28 products consecutively within a 30-day period or within a single generation of pest.
	32	GS-omega/kappa-Hctx-Hv1a	Spear T 2 SN	9.4-28.0 L/ha, see label	Minimum 200 L/ha	0	0.2, when dry	6 app	3	Pest Stage: Effective on immature and adult life stages. Earlier/younger stages are more susceptible. Coverage: Thorough, no runoff. Use a non-ionic surfactant at 0.125% v/v. Recommendations: Product provides suppression only.
Two-spotted spider mite	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	3-15, see label	1-17, see label	2 app	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees.
	20B	acequinocyl	Kanemite 15 SC	2.07 L/ha	1000-1900 L/ha	1	0.5	2 app	21	Pest Stage: At threshold. Coverage: Thorough, to runoff.
	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.
Valdensinia leaf spot	3	prothioconazole	Proline 480 SC	315-420 mL/ha, see label	Minimum 100 L/ha	7	1-3, see label	2 app	see label	Coverage: Use a non-ionic surfactant at 0.125% v/v. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	03, 11	azoxystrobin + propiconazole	Quilt SC	1.0 L/ha	Minimum 200 L/ha	30	0.5	4 app	7	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product for resistance management. Do not tank-mix or make sequential applications with Exirel.
	07, 03	fluopyram + prothioconazole	Propulse SC	750-1000 mL/ha, see label	Minimum 100 L/ha	7	1-3, see label	2 app, 2000 mL/ha	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Weevils	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	3-15, see label	1-17, see label	2 app	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees.

Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	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 until petal fall. When applying after petal fall, renovation of woody plants (cutting back old growth) must occur after harvest and before the next season's bloom. Pollinators: Toxic to bees.
08: POST-HARVEST										
Anthracnose	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.
Aphids	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	Crop Stage: Do not apply during bloom. Coverage: Thorough, no runoff. Pollinators: Toxic to bees.
	04, 15	acetamiprid and novaluron	Cormoran EC	700-1400 mL/ha, see label	Minimum 200 L/ha	8	0.5	3 app	10	Pollinators: Toxic to bees. Recommendations: Some phytotoxic symptoms to foliage (mottled chlorosis) may occur when product is applied under conditions of high temperatures and/or drought stress, particularly during periods of new, tender shoot growth. These symptoms will not occur on future growth and will not affect fruiting or yield.
	04A	imidacloprid	Admire 240 SC	175-350 mL/ha, see label	Maximum 1000 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply until petal fall. When applying after petal fall, renovation of woody plants (cutting back of old growth) must occur after harvest and before the next season's bloom. Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
	04C	sulfoxaflor	Closer 240 SC	100-400 mL/ha, see label	200-1000 L/ha	1	0.5	2-3 app, see label	7	Pest Stage: At threshold. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	04D	flupyradifurone	Sivanto Prime 200 SN	500-1000 mL/ha, see label	Minimum 100 L/ha	3	0.5	2000 mL/ha	7	Pollinators: Toxic to some bees. Recommendations: Do not apply more than two Group 4A products per season.
	23	spirotetramat	Movento 240 SC	220-585 mL/ha, see label	200-3000 L/ha	7	0.5	1.83 L/ha	7	Crop Stage: Post-bloom. Pollinators: Toxic to bee brood. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Bacterial blight	M01	copper sulphate pentahydrate	Pura-fi 420 SN	180-200 ppm, see label	600-1200 L/ha	-	2	4 app	see label	Coverage: Use with crop oil concentrate at 494 mL/ha. Recommendations: Do not mix with lime sulphur.
	M02	copper octanoate	Cueva 1.8 SN	0.5-2.0% v/v, see label	470-940 L/ha	1	0.2	-	7	Crop Stage: Begin at start of flowering.
	M02	copper oxychloride	Copper Spray Fungicide 50 WP	2.0-4.0 kg/ha, see label	500-1000 L/ha	2	2	6 app	see label	Crop Stage: Apply before fall rains, at 50% leaf fall, at bud burst, then at 14 day intervals during wet weather.
Botrytis grey mould	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.

Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
Japanese beetle	01B	phosmet	Imidan 50 WP	2.25 kg/ha	1000 L/ha	15-17, see label	0.5-20, see label	1 app	-	Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage required. Pollinators: Toxic to bees.
	01B	phosmet	Imidan 70 WP	1.6 kg/ha	1000 L/ha	15-17, see label	0.5-20, see label	1 app	-	Crop Stage: Do not apply during bloom. Coverage: Contact insecticide. Thorough coverage required. Good residual control. Pollinators: Toxic to bees.
	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	3-15, see label	1-17, see label	2 app	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees.
	04A	imidacloprid	Admire 240 SC	175-350 mL/ha, see label	Maximum 1000 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply until petal fall. When applying after petal fall, renovation of woody plants (cutting back of old growth) must occur after harvest and before the next season's bloom. Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
Leafhoppers	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	3-15, see label	1-17, see label	2 app	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. 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	Crop Stage: Do not apply during bloom. Coverage: Thorough, no runoff. Pollinators: Toxic to bees.
	04A	imidacloprid	Admire 240 SC	175-350 mL/ha, see label	Maximum 1000 L/ha	3	0.5	2 app	7	Crop Stage: Do not apply until petal fall. When applying after petal fall, renovation of woody plants (cutting back of old growth) must occur after harvest and before the next season's bloom. Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Do not apply more than two Group 4A products per season.
	04C	sulfoxaflor	Closer 240 SC	100-400 mL/ha, see label	200-1000 L/ha	1	0.5	2-3 app, see label	7	Pest Stage: At threshold. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Monilinia blight	BM02	Bacillus amyloliquefaciens D747	Double Nickel LC SC	2.5-5.0 L/ha, see label	-	0	0.5, when dry	-	3	Pest Stage: Begin preventatively. Coverage: Product can be applied as a foliar spray or through drip or sprinkler irrigation. Recommendations: Product provides suppression only.
Phytophthora root rot	P07	mono- and dibasic sodium, potassium, and ammonium phosphites	Phostrol 53.6 LI	2.9-5.8 L/ha, see label	Minimum 400 L/ha	0	0.5	4 app	14	Crop Stage: Begin at pink bud. Concentrate applications during periods of increased root growth (spring and early fall) and periods of high soil contact. Crop Safety: Product may cause crop injury in the form of marginal leaf necrosis and brown spots. Apply in a high water volume to minimize risk of injury. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Spotted wing drosophila	01B	dimethoate	Cygon 480-AG EC	830 mL/ha	Maximum 1000 L/ha	21	0.5	2 app	see label	Crop Stage: Do not apply during bloom or during the 5-day period before bloom. For spotted wing drosophila, apply post-harvest only. Coverage: Residual activity is 10-12 days. Pollinators: Toxic to bees. Recommendations: Do not use on crops destined for US markets due to a very low limit for residual dimethoate.

Pest	Group	Active Ingredient	Pesticide	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	01B	dimethoate	Lagon 480 E	580-830 mL/ha, see label	Maximum 1000 L/ha	9-21, see label	0.5-12, see label	2 app	see label	Crop Stage: Do not apply during bloom or during the 5-day period before bloom. For spotted wing drosophila, apply post-harvest only. Coverage: Residual activity is 10-12 days. Pollinators: Toxic to bees. Recommendations: Do not use on crops destined for US markets due to a very low limit for residual dimethoate.
	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	3-15, see label	1-17, see label	2 app	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees.
	5	spinosad	Entrust 240 SC	219-440 mL/ha, see label	300-500 L/ha	1-3, see label	0.5, when dry	3 app	see label	Coverage: Thorough. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	28	cyantranilprole	Exirel 100 SC	500-1500 mL/ha, see label	Minimum 200 L/ha	3	0.5	4 app, 4.5 L/ha	5	Pest Stage: At threshold. Coverage: Thorough. Use an MSO surfactant at 0.5-1.0% v/v for some pests - see label. Pollinators: Toxic to bees. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	32	GS-omega/kappa-Hctx-Hv1a	Spear T 2 SN	9.4-28.0 L/ha, see label	Minimum 200 L/ha	0	0.2, when dry	6 app	3	Pest Stage: Effective on immature and adult life stages. Earlier/younger stages are more susceptible. Coverage: Thorough, no runoff. Use a non-ionic surfactant at 0.125% v/v. Recommendations: Product provides suppression only.
Two-spotted spider mite	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	3-15, see label	1-17, see label	2 app	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. Pollinators: Toxic to bees.
	20B	acequinocyl	Kanemite 15 SC	2.07 L/ha	1000-1900 L/ha	1	0.5	2 app	21	Pest Stage: At threshold. Coverage: Thorough, to runoff.
	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.
Valdensinia leaf spot	3	prothioconazole	Proline 480 SC	315-420 mL/ha, see label	Minimum 100 L/ha	7	1-3, see label	2 app	see label	Coverage: Use a non-ionic surfactant at 0.125% v/v. Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
	03, 11	azoxystrobin + propiconazole	Quilt SC	1.0 L/ha	Minimum 200 L/ha	30	0.5	4 app	7	Crop Stage: Flower bud swelling and leaf bud swelling. Recommendations: Efficacy varies depending on pest. See efficacy table and product label. Tank mix with a Group M product for resistance management. Do not tank-mix or make sequential applications with Exirel.
	07, 03	fluopyram + prothioconazole	Propulse SC	750-1000 mL/ha, see label	Minimum 100 L/ha	7	1-3, see label	2 app, 2000 mL/ha	see label	Recommendations: Efficacy varies depending on pest. See efficacy table and product label.
Weevils	3	fenpropathrin	Danitol 30.9 EC	779-1169 mL/ha, see label	Minimum 200 L/ha	3-15, see label	1-17, see label	2 app	14	Pest Stage: At threshold. Crop Stage: Do not apply during bloom. 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 until petal fall. When applying after petal fall, renovation of woody plants (cutting back old growth) must occur after harvest and before the next season's bloom. Pollinators: Toxic to bees.