

EXTENSION AND ADVISORY TEAM

STONE FRUIT PEST MANAGEMENT GUIDE

A guide to insect, mite and disease management in peach, plum, and sweet and sour cherry orchards in Nova Scotia



Discard old editions of the pest management guide. Each year, the Perennia Tree Fruit Specialist updates the pesticides and information contained in this publication.

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Note: Perennia offers supplemental guides for pome fruit and organic production on our website at www.perennia.ca > Agriculture > Commodity Information > Fruits > Tree Fruit

Emergency and First Aid Procedure for Pesticide Poisoning

- Become familiar with the chemicals you are using. Keep a list of common and active ingredient names in case of accidents or emergencies. This information can be found on product labels and cross-referenced in this publication.
- 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 IWK Regional Poison Information Centre, Halifax, NS. Phone: 1-800-565-8161 (NS & PEI).

Sources of Information on Pesticides

Information Service of the Pest Management Regulatory Agency Phone: 1-800-267-6315 Web Site: http://www.hc-sc.gc.ca/cps-spc/pest/index-eng.php

Pest Management Regulatory Agency –Electronic Labels: Search Tool Web Site: http://pr-rp.hc-sc.gc.ca/ls-re/index-eng.php

Ontario Pesticides Classification Database Web Site: https://www.lrcsde.lrc.gov.on.ca/PCDWeb/showSearch.action

National Pesticide Information Centre Web Site: http://npic.orst.edu/

Environmental Emergencies – Nova Scotia Pesticide and Chemical spills Phone: 1-800-565-1633

Organic Agriculture Centre of Canada Web Site: http://www.organicagcentre.ca/

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1. Pesticide Handling and Application

Registration of Pesticides

A pesticide that is used in Nova Scotia must be registered by the Pest Management Regulatory Agency (PMRA) of Health Canada, and be approved for use in the province of Nova Scotia. All registered pesticides may be re-evaluated and are subject to discontinuation if they do not meet current standards. The pesticide product label is a legal document, and all label directions must be followed.

- To search for product labels, visit the Health Canada website: <u>http://pr-rp.hc-sc.gc.ca/ls-re/index-eng.php</u>
- To download the smartphone application, search for the app "Pesticide Labels" by Health Canada.

Applicator Pesticide Certification

Applicators must hold a valid applicator certificate of qualification to apply a commercial class pesticide in Nova Scotia. The regional offices for Nova Scotia Environment offer certificates, approvals, exams and exam study materials.

- Central Region: Halifax and Hants Counties, (902) 424-7773
- Western Region: Kings, Annapolis, Digby, Yarmouth, Shelburne, Queens and Lunenburg, (902) 679-6086

Environmental Stewardship

Environmental stewardship and food safety programs are important components of best management practice for fruit production. Guidelines and fact sheets have been developed under the Nova Scotia Environmental Farm Program for the best means to store, handle, and apply pesticides. Factsheets on the NS Federation website (<u>http://www.nsfa-fane.ca/efp/resources/factsheets/</u>) include:

ane.ca/efp/resources/factsheets/) inclue

- On-farm Pesticide Use
- Pesticide Storage and Handling
- Air-Blast Sprayer Calibration for Orchard and Vineyards
- Tree-Row Volume: Concept, Calculations and Application

Food Safety

The CHC CanadaGap on-farm food safety manual provides procedures and guidelines with regard to the safe handling, storage and record keeping for tree fruit pesticides and fertilizers: http://www.canadagap.ca/manuals/downloads/

Buffer Zones

Most pesticide labels have a required distance between site of spray application and a buffer zone. A buffer zone is the distance between the point of direct pesticide application and the nearest downwind boundary of a sensitive habitat. A buffer zone is a no-spray area because the sensitive habitat contains organisms that are affected by the pesticide being applied. A sensitive area may be aquatic, terrestrial (shelterbelts and woodlots) or a combination (wetlands, marshes etc). It is the applicator's responsibility to identify the sensitive areas within and adjacent to treated fields.

Pesticide Formulation Abbreviations

DF	dry flowable	SG	soluble granules
DP	dispersible powder	SN	solution
DU	dust	SP	soluble powder
EC	emulsifiable concentrate	SU	suspension
F or FLO	flowable solution	SURF	surfactant
GR or G	granular	W or WP	wettable powder
OD	oil dispersible	WSP	water soluble pouch
SC	spray concentrate	WDG or DG	water dispersible granules

Warning

Please note that we make no warranty or guarantee of any kind, expressed or implied, concerning the use of products listed in this publication. The user assumes all risks, whether recommendations are followed or not. This publication is intended as a guide only.

For specific product information always refer to and follow directions on the label.

2. Pesticides Listed in this Guide

PESTICIDES LISTED IN THIS GUIDE

This listing includes all the registered pesticides (excluding herbicides) detailed in the Stone Fruit Management Guide. Products registered for suppression only are not listed in this guide. Products are listed according to primary insects and diseases in Nova Scotia stone fruits. Secondary diseases and pests may be present on some labels. Consult product labels for additional information.

product labels for add	itional information.									
Active Ingredient	Product	Group Name	Group	Peach	Plum	Sweet Cherry	Sour Cherry	Preharvest Interval (days)	Re-Entry Interval	Diseases/Insects Controlled/Suppressed
FUNGICIDES								04	40 1	
ferbam	Ferbam	Inorganic	М	~				21 dormant	12 h	Peach leaf curl
copper hydroxide	Parasol Flowable	Inorganic	M1	\checkmark		\checkmark	\checkmark	only	48 h	Peach leaf curl, bacterial canker (cherry)
BLAD polypeptide	Fracture	Inorganic	М	✓	✓	✓	\checkmark	0	12 h	Brown rot
sulphur	Kumulus	Inorganic	M1	✓	√		\checkmark	1	24 h	Brown rot, peach scab, powdery mildew
sulphur	Microthiol D./Microscopic Sulphur	Inorganic	M1	\checkmark	\checkmark		\checkmark	1	24 h	Brown rot, peach scab, powdery mildew
basic copper sulphate	Copper	Inorganic	M2	✓				2	48 h	Peach leaf curl
copper octanoate	Cueva	Inorganic	M2	~	✓	✓	✓	1	12h	Peach leaf curl, bacterial spot, brown rot, bacterial canker (cherry), cherry leaf spot
copper oxychloride	Copper Spray Fungicide	Inorganic	M2	✓		√	✓	2	48 h	Peach leaf curl, bacterial canker (cherry)
copper oxychloride	Guardsman Copper Oxychloride	Inorganic	M2	\checkmark		\checkmark	\checkmark	2	48 h	Peach leaf curl, bacterial canker (cherry)
copper oxychloride	Copper 53 W	Inorganic	M2	\checkmark			✓	2	48 h	Peach leaf curl
thiram	Granuflo-T	EBDC	M3	\checkmark				7	24 h	Brown rot, peach scab
thiram	Thiram	EBDC	M3	✓	√			7	12 h	Brown rot, peach scab, plum pockets
captan	Supra Captan	Phthalimide	M4	\checkmark	✓	\checkmark	\checkmark	2	48 h	Brown rot, peach scab, black knot, cherry leaf spot
captan	Maestro	Phthalimide	M4	✓	✓	✓	✓	2	48 h	Brown rot, peach scab, black knot, cherry leaf spot
chlorothalonil	Bravo	Chloronitrile	M5	\checkmark			\checkmark	40	48 h	Peach leaf curl, brown rot, cherry leaf spot, black knot
chlorothalonil	Bravo ZN	Chloronitrile	M5	✓		✓	✓	60	48 h	Peach leaf curl, brown rot, black knot, cherry leaf spot
chlorothalonil	Echo	Chloronitrile	M5	\checkmark			\checkmark	40	48 h	Peach leaf curl, brown rot, cherry leaf spot, black knot
thiophanate-methyl	Senator	MBC	1	✓	✓	✓	\checkmark	1	12 h	Brown rot
iprodione	Rovral	Dicarboximide	2	\checkmark	\checkmark	\checkmark	\checkmark	1	12 h	Brown rot
triforine	Funginex	DMI	3	✓	✓	√	~		48 h	Brown rot (before petal fall only)
fenbucanzole	Indar	DMI	3	\checkmark	✓	\checkmark	\checkmark	1	12 h	Brown rot, black knot
propiconazole	Jade	DMI	3	✓	✓	~	~	3	72 h	Brown rot, black knot
propiconazole	Mission	DMI	3	\checkmark	✓	\checkmark	\checkmark	3	72 h	Brown rot
propiconazole	Tilt	DMI	3	\checkmark	~	\checkmark	\checkmark	3	72 h	Brown rot, black knot
myclobutanil	Nova	DMI	3	\checkmark		\checkmark	\checkmark	1	12 h	Brown rot
metconazole	Quash	DMI	3	~	~	~	~	14	12 h	Brown rot, powdery mildew
boscalid	Cantus	SDHI	7	✓	√	√	\checkmark	0	12 h	Brown rot
penthiopyrad	Fontelis	SDHI	7	✓	~	~	~	0	12 h	Brown rot, peach scab, powdery mildew
fluxapyroxad	Sercadis	SDHI	7	~	~	~	~	0	12 h	Brown rot
boscalid + pyraclostrobin	Pristine	SDHI + Qol	7,11	~	~	~	~	1	24h	Brown rot, cherry leaf spot
fluopyram + trifloxystrobin	Luna Sensation	SDHI + Qol	7,11	~	v	\checkmark	\checkmark	1	12 h	Brown rot, peach scab, powdery mildew
cyprodinil	Vangard	AP	9	~	~			2	72 h	Brown rot
trifloxystrobin	Flint	Qol	11	✓		√	~	1	12 h	Cherry leaf spot
fludioxonil	Scholar	Phenylpyroles	12	~	~	~		NA	NA	Postharvest rots
metrafenone	Vivando	Benzophenone	U8	~				7	12 h	Powdery mildew
dodine	Equal/Syllit	Guanidine	U12	~		 ✓ 	~	7	48 h	Peach leaf curl, cherry leaf spot
fenhexamid	Elevate	Hydroxyanaline	17	√		√	✓	1	4 h	Brown rot

Active Ingredient	Product	Group Name	Group	Peach	Plum	Sweet Cherry	Sour Cherry	Preharvest Interval (days)	Re-Entry Interval	Pests Controlled
Bacillus subtilis	Serenade OPTI	Microbial Disruptors	44	✓	✓	✓	✓	0	when dry	Brown rot
Reynoutria sachalinensis	Regalia Maxx	Biofungicide	P5	✓	~	✓	✓	0	when dry	Brown rot, powdery mildew, cherry leaf spot
potassium bicarbonate	MilStop		NC	\checkmark				0	4 h	Powdery mildew
potassium bicarbonate	Sirocco		NC	~				0	4 h	Powdery mildew
mineral oil	Purespray Green	Mineral oil	NC	\checkmark				0	12 h	Powdery mildew
INSECTICIDES/MITICI			110					0	12 11	· • · · • • • • • • • • • • • • • • • •
petroleum oil	Superior Oil	Mineral oil	NC	\checkmark	~			0	12 h	European red mite
mineral oil	Purespray Green	Mineral oil	NC	~	✓			0	12 h	European red mite, aphids (green peach, plum), two-spotted spider mite
potassium salts of fatty acid	Кора	Insecticidal soap	NC	√	✓	✓		12 h	12 h	European red mite, aphids (green peach, plum, black cherry), two spotted spider mite
bifenazate	Acramite	Carbazate	UN	\checkmark	\checkmark			7	12 h	European red mite, two-spotted spider mite
phosmet	Imidan	Organophosphate	1B	✓	~		~	14	7 d	Plum curculio, feeding caterpillars, cherry fruit fly, spotted wing drosophila
malathion	Malathion	Organophosphate	1B	\checkmark	\checkmark	\checkmark	\checkmark	7, 3	3 d	Spotted wing drosophila
permethrin	Ambush	Pyrethroid	3	\checkmark	✓			7	12 h	Tarnished plant bug, plum curculio
cypermethrin	Mako	Pyrethroid	3	\checkmark				7	12 h	Tarnished plant bug
cypermethrin	Up-Cyde	Pyrethroid	3	\checkmark	\checkmark			7	12 h	Tarnished plant bug, plum curculio
deltamethrin	Decis	Pyrethroid	3					1	12 h	Tarnished plant bug
lambda-cyhalothrin	Matador/Warrior	Pyrethroid	3	\checkmark	✓	\checkmark	\checkmark	7	24 h	Tarnished plant bug, plum curculio
lambda-cyhalothrin	Silencer	Pyrethroid	3	\checkmark	\checkmark	\checkmark	\checkmark	7	24 h	Tarnished plant bug, plum curculio, cherry fruit fly
permethrin	Pounce	Pyrethroid	3	✓	\checkmark			7	12 h	Tarnished plant bug, plum curculio
permethrin	Perm-Up	Pyrethroid	3	\checkmark	\checkmark			7	12 h	Plum curculio
acetamiprid	Assail	Neonicotinoid	4	✓	\checkmark	\checkmark	\checkmark	7	12 h	Plum curculio, cherry fruit fly
imidacloprid	Admire/Alias	Neonicotinoid	4A	\checkmark	\checkmark	\checkmark	\checkmark	7	24 h	Aphids (green peach, plum, black cherry), cherry fruit fly
clothianidin	Clutch	Neonicotinoid	4	✓	✓	\checkmark	\checkmark	7	12 h	Aphids (green peach, plum, black cherry), plum curculio
sulfoxaflor	Closer	Neonicotinoid	4C	\checkmark	\checkmark	\checkmark		7	12 h	Aphids (green peach, plum, black cherry)
thiamethoxam	Actara	Neonicotinoid	4			✓		14	12 h	Black cherry aphid
sulfoxaflor + spinetoram	Twinguard	Neonicotinoid+Spinosyns	4C, 5	\checkmark	\checkmark			7	12 h	Aphids (green peach, plum)
spinosad	Entrust	Spinosyns	5			\checkmark	\checkmark	14	12 h	Cherry fruit fly
spinosad	GF-120	Spinosyns	5			\checkmark	\checkmark	0	12 h	Cherry fruit fly
spinetoram	Delegate	Spinosyns	5	✓	√	✓	~	5	12 h	Spotted wing drosophila, aphids (green peach), cherry fruit fly suppression
bacillus thuringienis	Dipel 2XDF	Bt Microbial	11	\checkmark				0	12 h	Feeding caterpillars
pyridaben	Nexter	Pyridazinone	21	✓				7	24 h	European red mite, two-spotted spider mite
spirotetramat	Movento	Tetronic Acid	23	\checkmark	\checkmark	\checkmark		7	12 h	Aphids (green peach, plum, black cherry)
spirodiclofen	Envidor	Tetronic Acid	23	✓	~			7	12 h	European red mite, two-spotted spider mite
cyclaniliprole	Harvanta	Pyrazolylphenyl	28	\checkmark	\checkmark	\checkmark	\checkmark	7	12 h	Spotted wing drosophila, plum curculio
cyantraniliprole	Exirel	Ryanodine receptors	28	~	✓	✓	~	3	12 h	Aphids (green peach, plum), plum curculio, feeding caterpillars, cherry fruit fly, spotted wing drosophila
flonicamid	Beleaf	Chordotanol Organ Modulators	29	✓	✓	✓		14	12 h	Aphids (green peach, plum, black cherry)

3. Peach Orchard Calendar

Peach Orchard Management Guide for Nova Scotia

A guide to insect, mite, and disease management in peach orchards. All rates are based on label rates. In some cases, reduced rates can be used based on factors such as tree size. Please refer to the label, product specific notes or your agricultural advisor for details. Always read the label before using any pesticide. Where differences between the label and this schedule occur, label information prevails.

Disease & Insect		Products	Group	Formulation	Rate	Notes
DORMANT						
Peach Leaf Curl		•		•		de application may not be needed where a fall spray was applied at leaf drop. Spring fungicide applications need to be
				· · ·	, , ,	until after bud swell can result in poor control.
	►	Bravo	M5	500 SU	5.0-7.0 L/ha	Do not apply within 10 days of an oil application to prevent burning of flowers and leaf tissue. Apply with a minimum of 1000 L of water not better.
	►	Echo	M5	90 DF	2.8-3.9 kg/ha	1,000 L of water per hectare. Do not make more than 1 application per year.
	►	Ferbam	M3	76 WDG	3.5 kg/1,000 L	Check label directions with regards to mixing with oil. Do not make more than 1 application per year.
	►	Copper Spray	M2	50 WP	2.0 kg/1,000 L	Apply in 1,000 L of water per hectare. Do not make more than 2 applications per year.
	►	Copper 53W Guardsman	M2	53 WP	1.9 kg/1,000 L	Do not make more than 2 applications per year.
	►	Copper Oxchloride 50	M2	50 WP	2.0 kg/1,000 L	Apply in 1,000 L of water per hectare. Do not make more than 2 applications per year.
	►	Cueva	M1	1.8 S	1% v/v	Do not exceed 5 applications per year. Reapply at 5-10 day intervals.
	►	Parasol Flowable	M1	SU	4.5-6.7 L/ha	Use higher rate when rainfall is very heavy and disease pressure is high.
	►	Syllit	U12	400 FL	1.8-3.5 L/1,000 L	Do not make more than 2 applications per year.
PREBLOOM (Half	-inch					
European Red Mite		Check compatibil	lity with fung	icides for peach le	af curl and brown rot.	
	►	Superior Oil	NC	70 EC	20 L/1,000 L or 60 L/ha	Best results are obtained when applied with a high volume of water 1,500 to 3,370 L/ha. Do not apply oil during or ju prior to expected freezing temperatures or immediately following a frost. Do not apply when temperatures are greate
	►	Purespray Green Spray Oil	NC	13 E	20 L/1,000 L or 60 L/ha	than 30°C.
	Þ	Кора	NC		2% v/v	Begin applications when population are low and reapply every 1-3 weeks as needed. Test a small area for tolerance before spraying entire block. Applying soaps more than 3 times may cause plant injury. Avoid application in direct sunlight or to plants under stress. Do not exceed 1650 L/ha spray solution on peaches. Combining this product with sulfur or applying this product within 3 days of sulfur application may increase the plant damage caused by sulfur on sensitive plants.
PINK	_					
Brown Rot (blossom blig stage)	ght	spray just before	blossoms of		vo additional sprays durir	n large numbers of mummies (dried infected fruit) are present on the tree. Remove mummies when pruning. Apply first ing the bloom period if weather remains favorable for blossom blight. Fungicides in Groups other than M should be used
	•	Fracture	М		1.5-3.3 L/ha	Use high rate under high disease pressure. Do not mix with foliar fertilizers.
	►	Cueva	M2	1.8 S	0.5-2.0% solution	Apply in 470-940 L of water per hectare. Do not make more than 5 applications per year.
	►	Granuflo-T	M3	75 WDG	1.5-2.25 kg/1,000 L	Use higher rate for greater disease pressure.

Disease & Insect	Products	Group	Formulation	Rate	Notes
PEACH - PINK					
Brown Rot (blossom blight stage) cont'd	 Supra Captan 	M4	80 WDG	3.75-4.50 kg/ha	Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not apply within 14
0,	 Maestro 	M4	80 DF	3.75-4.50 kg/ha	days of an oil application.
	 Senator 	1	50 SC	700 mL/1,000 L	Apply first application at early bloom. Repeat according to weather conditions
	 Rovral 	2	50 WP	1.50-1.75 kg/ha	Use the higher rate for larger trees. *Use discontinued as of June 2021
	Funginex	3	190 EC	2.50 L/ha	
	Indar	3	75 WSP	140 g/ha	
	► Tilt	3	250 E	500 mL/ha	Apply first application at early bloom followed by a second at 50 to 75% bloom.
	Jade	3	250 E	500 mL/ha	Apply first application at early bloom followed by a second at 50 to 75% bloom.
	 Mission 	3	418 EC	300 mL/ha	Apply first application at early bloom followed by a second at 50 to 75% bloom.
	Nova	3	40 WSP	340 g/ha	Apply when first blossoms are opening. Do not make more than 6 applications per year.
	Quash	3	WDG	175-245 mL/ha	Begin application at early pink before infection, until petal fall. Use in rotation with other groups for brown rot.
	 Fontelis 	7	SC	1.0-1.75 L/ha	Use higher rate and shorter spray intervals when disease pressure is high. Do not use more than 4.5 L/ha per year. Contains mineral oil.
	 Cantus 	7	WDG	370 g/ha	Do not make more than 5 applications per year.
	 Sercadis 	7	300 SU	333 mL/ha	Do not make more than 3 applications per year.
	 Pristine 	7, 11	WG	0.75-1.0 kg/ha	Do not make more than 5 applications per year.
	 Luna Sensation 	7, 11	SU	300-400 mL/ha	Use no more than two consecutive applications before rotating to a different fungicide group.
	 Vangard 	9	75 WG	370 g/ha	Do not make more than 2 applications per year. Applications must be made before petal fall.
	 Elevate 	17	50 WDG	1.7 kg/ha	Do not make more than 4 applications per year.
	 Serenade OPTI 	44	WP	1.1-1.7 kg/ha	Suppression only but can be used with other products for resistance management.
				-	Suppression only but can be used with other products for resistance management. Apply before symptoms develop.
DI OOM	 Regalia Maxx 	P5	LC	0.125-0.25% v/v	Use in 500-1000 L water. Use at low rate in a tank mix with other brown rot fungicides, or high rate in rotation with other brown rot fungicides.

BLOOM Brown Rot

Use one of the fungicides listed under Pink. If wet weather above 16°C persists during the bloom period, two applications may be required during this stage of development.

Insects	Do not use an	y insecticides	s during bloom		
PETAL FALL to SH	IUCK SPLIT				
Brown Rot	Use one of the	fungicides list	ed under Pink. I	f wet weather above 16°	C persists, additional applications may be required. Do not use Funginex after bloom.
Green Peach Aphid	Use one of the	following inse	cticides if treatm	ent for green peach aph	id is required.
	 Admire 	4A	240 F	230 mL/ha	Do not apply when bloom or flowering weeds are present. Do not make more than two applications per season.
	Alias	4A	240 SC	230 mL/ha	Do not apply when bloom or flowering weeds are present. Do not make more than two applications per season.
	Clutch	4A	50 WDG	140-210 g/ha	Do not apply when bloom or flowering weeds are present. Do not make more than two applications per year.
	Closer	4C	SC	100-200 g/ha	Do not apply when bloom or flowering weeds are present. Do not make more than two applications per year.

Disease & Insect		Products	Group	Formulation	Rate	Notes
PEACH - PETAL FALL TO		-				
Green Peach Aphid cont'd	►	Twinguard	4C, 5	WDG	250 g/ha	Do not apply when bloom or flowering weeds are present. Do not make more than two applications per year.
	►	Movento	23	240 SC	365 mL/ha	Do not apply when bloom or flowering weeds are present. Do not apply more than 1.83 L/ha per year. Control may not be visible for 2-3 weeks after treatment.
	►	Exirel	28	100 SU	0.75-1.5 L/ha	Do not apply when bloom or flowering weeds are present. Do not make more than 4 applications per year.
	►	Beleaf	29	50 SG	120-160 g/ha	Use higher rates for greater pest populations and/or dense foliage. Do not make more than three applications per year.
	Þ	Кора	NC	SC	2% v/v	Begin applications when population are low and reapply every 1-3 weeks as needed. Test a small area for tolerance before spraying entire block. Applying soaps more than 3 times may cause plant injury. Avoid application in direct sunlight or to plants under stress. Do not exceed 1650 L/ha spray solution on peaches. Combining this product with sulfur or applying this product within 3 days of sulfur application may increase the plant damage caused by sulfur on sensitive plants.
SHUCK FALL						
Brown Rot		Use one of the fur	ngicides list	ed under Pink. If v	vet weather above 16°C p	persists, additional applications may be required. Do not use Sercadis after petal fall.
Peach Scab		Peaches are susc require additional				weeks before harvest. The shuck fall application is particularly important for disease control. Periods of wet weather will
	►	Kumulus	M1	80 DF	22.5 kg/ha	Repeat if weather is wet. Will also control brown rot and powdery mildew.
	►	Microthiol Disperss	M1	80 WP	7.5 kg/1,000 L	Repeat if weather is wet. Will also control brown rot and powdery mildew.
	►	Microscopic Sulphur	M1	92 WP	6.5 kg/1,000 L	Repeat if weather is wet. Will also control brown rot.
	►	Granuflo-T	M3	75 WDG	1.5-2.25 kg/1,000 L	Use higher rate for greater disease pressure. Will also control brown rot.
	►	Thiram	M3	75 WP	1.5-2.25 kg/1,000 L	Use higher rate for greater disease pressure. Will also control brown rot.
	►	Supra Captan	M4	80 WDG	3.75-4.50 kg/ha	Use higher rate for greater disease pressure. May cause injury under some circumstances. Will also control brown rot.
	►	Maestro	M4	80 DF	3.75-4.50 kg/ha	
	►	Fontelis	7	SC	1.0-1.5 L/ha	Use higher rate and shorter spray intervals when disease pressure is high. Do not use more than 4.5 L/ha per year. Will also control brown rot and powdery mildew.
	►	Luna Sensation	7, 11	SU	300-400 mL/ha	Use no more than two consecutive applications before rotating to a different fungicide group.
Bacterial Spot	►	Cueva	M2	1.8 S	0.5-2.0% solution	Use 470-940 L of water per hectare. Do not make more than 5 applications per year.
Powdery Mildew		Symptoms of pow	dery milde	w can be seen on t	the terminal leaves of sho	pots where leaves will become white, misshapen and puckered.
	►	Kumulus	M1	80 DF	11.3-12.0 kg/ha	Repeat in 10-14 days.
	►	Quash	3	WDG	280 g/ha	Suppression only.
	►	Fontelis	7	SC	1.0-1.75 L/ha	Begin applications prior to disease development. Use higher rate and shorter interval when disease pressure is high. Will also control scab.
	►	Luna Sensation	7, 11	SU	300-400 mL/ha	Use no more than two consecutive applications before rotating to a different fungicide group.

PEACH - SHUCK FALL Powdery mildew contd Regalia Maxx P5 LC 0.125-0.25% v/v Use pression only but can be used with other products for resistance management. Apply before symptoms develop. Use how rate in 1.000 L water in a tank mix with other powdery mildew fungicides. Vivando SC U8 SC 0.75-112 L/na Bogin applications prior to disease development. Do not make more than 2 applications per year. Use higher rate and shorter interval when disease pressure is high. Ambush 500 EC 400 mi/ha Madador 12 DE C 104 mi/ha Do not make more than three applications per year. Avoid applying synthetic pyrethroids when temperatures rise above 20° C because they are much less effective under these conditions. Synthetic pyrethroids when temperatures rise above 20° C because they are much less effective under these conditions. Synthetic pyrethroid reatments for trainshed plant bug pressure is high. Plum curculio is a sporadic pest of peaches which may not require control. Sout orchard rows bordering woodlands. Check fruit for new damage 7-10 days after treatment and apply a second application if new damage is found. Pounce 3 384 EC 275-520 mL/ha Assail 4 70 WP 240 g/ha Under high insect pressure may only provide suppresion. Assail 4 70 WP 240 g/ha Under high insect pressure may only provide suppresion. Assail 4 70 WP 240 g/ha Under high insect pressure. Do not make more than 4 applications per year. Clutch 4 50	Disease & Insect		Products	Group	Formulation	Rate	Notes
Pegalia Maxx P5 LC 0.125-0.25% v/v Use four rate in 1,000 L water in a tank mix with other powdery mildew fungicides. Termished Plant Bug Treatment period is from early green full stage to pit hardening. Use one of the following insecticides is begin applications prior to disease pressure is high. Begin applications prior to disease development. Do not make more than 2 applications per year. Use higher rate and short interval when disease pressure is high. Tarmished Plant Bug Treatment period is from early green full stage to pit hardening. Use one of the following insecticides if tarmished plant bug pressure is high. Repeat treament in 5-7 days if additional strings are detected. Matador 3 120 EC 104 mL/ha Do not make more than three applications per year. Avoid applying synthetic pyrethroids when temperatures rise above 200 mL/ha Makeo 3 400 EC 175 mL/ha Do not make more than three applications may provide suppression only under high disease pressure. Vip-Cyde 3 2.4 EC 2.45 EC 280 mL/ha Do not make more than three application if new damage is found. Plum Curculio Plum curculo is a sporadic pest of peaches which may nor require control. Vive pressure may only provide suppression. Do not make more than 4 applications per year. Vicula 4 50 WDG 210 g/ha Under high insect pressure may only provide suppression. Do not make more than 4 appl	PEACH - SHUCK FALL						
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detected. > Ambush 3 500 EC 400 ml/ha Matador 3 120 EC 104 mL/ha Do not make more than three applications per year. Avoid applying synthetic pyrethroids when temperatures rise above Pounce 3 384 EC 520 mL/ha Do not make more than three applications per year. Avoid applying synthetic pyrethroid treatments for tarnished plant Make 3 400 EC 175 mL/ha bug will also control plum curculio. Ambush may provide suppression only under high disease pressure. Up-Cycle 3 2.5 EC 280 mL/ha bug will also control plum curculio. Ambush may provide suppression only under high disease pressure. Plum Curculio Plum curculio is a sporadic pest of peaches which may not require control. Scout orchard rows bordering woodlands. Check fruit for new damage 7-10 days after treatment and apply a second application if new damage is found. Pounce 3 384 EC 275-520 mL/ha Under high insect pressure may only provide suppresion. Clutch 4 50 WDG 210 g/ha Under high insect pressure may only provide suppresion. Do not make more than 4 applications per year. Exirel 28 100 SU 1.0-1.5 L/ha Use the higher rate under greater insect pressure. Do not make more than four applications per year. Exirel 28 100 SU <td></td> <td>►</td> <td>Vivando SC</td> <td>U8</td> <td>SC</td> <td>0.75-1.12 L/ha</td> <td></td>		►	Vivando SC	U8	SC	0.75-1.12 L/ha	
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	Bacterial Spot		Use one of the fu	ungicides list	ed under Shuck F	all if bacterial spot has I	been a problem.

Disease & Insect		Products	Group	Formulation	Rate	Notes
SUMMER SPRAYS (European Red Mite & Two- potted Spider Mite			ates treatm	ent is required use	e one of the following miti	icides.
		Acramite	UN	50 WS	851 g/ha	Do not make more than 1 application per year.
	►	Nexter	21	75 WP	300-600 g/ha	Do not make more than 1 application per year. Most effective on nymphs. Use 600 g/ha for two-spotted spider mite.
	►	Envidor	23	240 SC	0.75 L/ha	Do not make more than 1 application per year. Effective on all life stages including eggs, nymphal stages and adult females.
	►	Кора	NC		2% v/v	Begin applications when population are low and reapply every 1-3 weeks as needed. Test a small area for tolerance before spraying entire block. Applying soaps more than 3 times may cause plant injury. Avoid application in direct sunlight or to plants under stress. Do not exceed 1650 L/ha spray solution on peaches. Combining this product with sulfur or applying this product within 3 days of sulfur application may increase the plant damage caused by sulfur on sensitive plants
potted Wing Drosophila		Spotted wing dros spotted wing dros			uit, and larvae may be pre	esent at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact with
	►	Malathion	1B	85E	610-855mL/1,000L	Recently registered through the minor use label expansion - pending label release. Will work more effectively if the temperature is 20° C or more or when temperatures will reach or exceed this minimum. Do not make more than 1 application per year.
	►	Imidan	1B	WP	2.68 kg/ha	Do not make more than 4 applications per year.
		Delegate	5	WDG	420 g/ha	Do not make more than 3 applications per year.
	►	Exirel	28	SC	1.0-1.5 L/ha	Begin applications when populations are low. Do not make more than 4 applications per season.
	►	Harvanta	28	50 SL	1.2-1.6 L/ha	Thorough coverage is essential. Do not apply a Group 28 insecticide consecutively more than 2 times within a 30 day period or within a single generation of insect pest.
PREHARVEST						
Brown Rot		Use one of the fu	ngicides list	ed under Pink. Ch	eck labels for pre-harves	t intervals (PHI).
Spotted Wing Drosophila		Use one of the ins	secticides li	sted under Summe	er Sprays.	
POSTHARVEST - FR	RUIT					
Fruit Rots		Postharvest treatr	ment of fruit	will prolong stora	ge life and provide contro	ol of post harvest diseases.
		Scholar	12	230 SC	496 mL/378 L	Apply as dip or drench. Reduces storage rots during wet harvest seasons.
FALL SPRAY						
Peach Leaf Curl		Apply at 75-100%	leaf drop in	n the fall when terr	perature is above freezir	ng.
		Cueva	M1	1.8 S	470-940 mL/ha	Apply as a late fall dormant spray during a period of dry weather.
	►	Bravo	M5	500 SU	5.0-7.0 L/ha	Do not apply within 10 days of an oil application to prevent burning of flowers and leaf tissue. Apply with a minimum o 1,000 L of water per hectare. Do not make more than 1 application per year. Apply as a fall dormant spray at 75-100%
	►	Echo	M5	90 DF	2.8-3.9 kg/ha	leaf drop.
	►	Ferbam	M3	76 WDG	3.5 kg/1,000 L	Check label directions with regards to mixing with oil. Do not make more than 1 application per year.
	►	Copper Spray	M2	50 WP	2.0 kg/1,000 L	Apply in 1,000 L of water per hectare. Do not make more than 2 applications per year.
		Copper 53W	M2	53 WP	1.9 kg/1,000 L	Do not make more than 2 applications per year. Apply in fall after leaves have fallen.
		Guardsman				
		Copper Oxychloride 50	M2	50 WP	2.0 kg/1,000 L	Apply in 1,000 L of water per hectare. Do not make more than 2 applications per year.
		Parasol Flowable	M1	SU	4.5-8.6 L/ha	Use higher rate when rainfall is very heavy and disease pressure is high.
Peach Canker	Con from	duct surgery to real around the ends	move canke and side of	ers when 3-5 days the canker. The re	of dry weather are forcea	r. Delay canker and dead wood removal until June or July when re-growth and healing of the tree can take place rapidly. ast. Surgery involves the removal of all diseased bark from around the canker, removing at least 1.25 cm of healthy tissue shed should have a smooth margin and be slightly rounded above and below to favour rapid wound closure. It is felt these n moisture, providing an environement for re-infection.

4. Plum Orchard Calendar

Plum Orchard Management Guide for Nova Scotia

A guide to insect, mite, and disease management in plum orchards. All rates are based on label rates. In some cases, reduced rates can be used based on factors such as tree size. Please refer to the label, product specific notes or your agricultural advisor for details. Always read the label before using any pesticide. Where differences between the label and this schedule occur, label information prevails.

Disease & Insect		Products	Group	Formulation	Rate	Notes
DORMANT						
Plum Pockets		Only Japanese cu	ltivars (suc	h as Burbank, Shir	o, Early Golden, etc.) ar	e infected by this fungus. Treatment should be based on history of infection.
	►	Thiram	M4	75 WP	6.72 kg/ha	Apply as a dormant spray just prior to bud swell in 1,100 to 1,700 L of water per hectare.
GREEN TIP (Bud B	Burst)					
European Red Mite	,		y with fung	icides for brown ro	t.	
· · ·					00 L /1 000 L at 00	
	►	Superior Oil	NC	70 EC	20 L/1,000 L or 60	Destance its an abteined where earlied with a birk volume of water 4 500 to 2 270 l /bo. Do not early all during a significant
					L/ha	Best results are obtained when applied with a high volume of water 1,500 to 3,370 L/ha. Do not apply oil during or just
	►	Purespray		10 F	20 L/1,000 L or 60	prior to expected freezing temperatures or immediately following a frost. Check compatibility with fungicides.
		Green Spray Oil	NC	13 E	L/ha	
						Begin applications when populations are low. Reapply every 1-3 weeks as needed. Test a small area of each variety for
	•	Kopa	NC	SC	2% v/v	tolerance before spraying entire orchard. Applying soaps more than three times may cause plant injury. Avoid
	-	Кора	NC	30	2 70 V/V	application in direct sunlight or to plants under stress. Do not apply more than 950 L/ha spray solution up to fruit
						formation.
						lornador.
PREBLOOM (When	n Blo	ssoms Show V	Vhite)			
PREBLOOM (When Brown Rot (stem rot and				y wet weather (abo	ve 16°C), especially whe	en large numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open,
		Blossom blight is f	avoured by		· · ·	
Brown Rot (stem rot and		Blossom blight is f	avoured by Iditional sp		· · ·	en large numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open,
Brown Rot (stem rot and		Blossom blight is f followed by two ad	avoured by Iditional sp		· · ·	en large numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open,
Brown Rot (stem rot and		Blossom blight is f followed by two ad resistance manage	avoured by Iditional sp ement.		om period if weather ren	en large numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open, nains favorable for blossom blight. Fungicides in Groups other than M should be used in rotation with different Groups for
Brown Rot (stem rot and		Blossom blight is f followed by two ad resistance manage Fracture	avoured by Iditional sp ement. M	rays during the blo	om period if weather ren 1.5-3.3 L/ha	en large numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open, nains favorable for blossom blight. Fungicides in Groups other than M should be used in rotation with different Groups for Use high rate under high disease pressure. Do not mix with foliar fertilizers.
Brown Rot (stem rot and		Blossom blight is f followed by two ad resistance manage Fracture Cueva	avoured by Iditional sp ement. M M2	rays during the blo	om period if weather ren 1.5-3.3 L/ha 0.5-2.0% solution	en large numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open, mains favorable for blossom blight. Fungicides in Groups other than M should be used in rotation with different Groups for Use high rate under high disease pressure. Do not mix with foliar fertilizers. Apply in 470-940 L of water per hectare. Do not make more than 5 applications per year.
Brown Rot (stem rot and		Blossom blight is f followed by two ad resistance manage Fracture Cueva Supra Captan	avoured by Iditional sp ement. M2 M4	1.8 S 80 WDG	om period if weather ren 1.5-3.3 L/ha 0.5-2.0% solution 3.75-4.50 kg/ha	en large numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open, mains favorable for blossom blight. Fungicides in Groups other than M should be used in rotation with different Groups for Use high rate under high disease pressure. Do not mix with foliar fertilizers. Apply in 470-940 L of water per hectare. Do not make more than 5 applications per year. Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not apply within 14
Brown Rot (stem rot and		Blossom blight is f followed by two ad resistance manage Fracture Cueva Supra Captan Maestro	avoured by Iditional sp ement. M2 M4	1.8 S 80 WDG 80 DF	om period if weather ren 1.5-3.3 L/ha 0.5-2.0% solution 3.75-4.50 kg/ha 3.75-4.50 kg/ha	en large numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open, mains favorable for blossom blight. Fungicides in Groups other than M should be used in rotation with different Groups for Use high rate under high disease pressure. Do not mix with foliar fertilizers. Apply in 470-940 L of water per hectare. Do not make more than 5 applications per year. Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not apply within 14 days of an oil application. Will also suppress black knot.
Brown Rot (stem rot and		Blossom blight is f followed by two ad resistance manage Fracture Cueva Supra Captan Maestro Senator	avoured by Iditional sp ement. M M2 M4 M4 M4 1	1.8 S 80 WDG 80 DF 50 SC	om period if weather ren 1.5-3.3 L/ha 0.5-2.0% solution 3.75-4.50 kg/ha 3.75-4.50 kg/ha 700 mL/1,000 L	en large numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open, mains favorable for blossom blight. Fungicides in Groups other than M should be used in rotation with different Groups for Use high rate under high disease pressure. Do not mix with foliar fertilizers. Apply in 470-940 L of water per hectare. Do not make more than 5 applications per year. Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not apply within 14 days of an oil application. Will also suppress black knot. Apply first application at early bloom. Repeat according to weather conditions
Brown Rot (stem rot and		Blossom blight is f followed by two ad resistance manage Fracture Cueva Supra Captan Maestro Senator Rovral	avoured by Iditional sp ement. M M2 M4 M4 M4 1 2	1.8 S 80 WDG 80 DF 50 SC 50 WP	om period if weather ren 1.5-3.3 L/ha 0.5-2.0% solution 3.75-4.50 kg/ha 3.75-4.50 kg/ha 700 mL/1,000 L 1.50-1.75 kg/ha	en large numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open, mains favorable for blossom blight. Fungicides in Groups other than M should be used in rotation with different Groups for Use high rate under high disease pressure. Do not mix with foliar fertilizers. Apply in 470-940 L of water per hectare. Do not make more than 5 applications per year. Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not apply within 14 days of an oil application. Will also suppress black knot. Apply first application at early bloom. Repeat according to weather conditions
Brown Rot (stem rot and		Blossom blight is f followed by two ad resistance manage Fracture Cueva Supra Captan Maestro Senator Rovral Indar	avoured by Iditional sp ement. M2 M4 M4 1 2 3	1.8 S 80 WDG 80 DF 50 SC 50 WP 75 WSP	om period if weather ren 1.5-3.3 L/ha 0.5-2.0% solution 3.75-4.50 kg/ha 3.75-4.50 kg/ha 700 mL/1,000 L 1.50-1.75 kg/ha 140 g/ha	en large numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open, mains favorable for blossom blight. Fungicides in Groups other than M should be used in rotation with different Groups for Use high rate under high disease pressure. Do not mix with foliar fertilizers. Apply in 470-940 L of water per hectare. Do not make more than 5 applications per year. Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not apply within 14 days of an oil application. Will also suppress black knot. Apply first application at early bloom. Repeat according to weather conditions
Brown Rot (stem rot and		Blossom blight is f followed by two ad resistance manage Fracture Cueva Supra Captan Maestro Senator Rovral Indar Tilt	avoured by Iditional sp ement. M2 M4 M4 1 2 3 3 3	1.8 S 80 WDG 80 DF 50 SC 50 WP 75 WSP 250 E	om period if weather ren 1.5-3.3 L/ha 0.5-2.0% solution 3.75-4.50 kg/ha 3.75-4.50 kg/ha 700 mL/1,000 L 1.50-1.75 kg/ha 140 g/ha 500 mL/ha	en large numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open, mains favorable for blossom blight. Fungicides in Groups other than M should be used in rotation with different Groups for Use high rate under high disease pressure. Do not mix with foliar fertilizers. Apply in 470-940 L of water per hectare. Do not make more than 5 applications per year. Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not apply within 14 days of an oil application. Will also suppress black knot. Apply first application at early bloom. Repeat according to weather conditions
Brown Rot (stem rot and		Blossom blight is f followed by two ad resistance manage Fracture Cueva Supra Captan Maestro Senator Rovral Indar Tilt Jade	avoured by Iditional sp ement. M2 M4 M4 1 2 3 3 3 3 3	1.8 S 80 WDG 80 DF 50 SC 50 WP 75 WSP 250 E 250 E	om period if weather ren 1.5-3.3 L/ha 0.5-2.0% solution 3.75-4.50 kg/ha 3.75-4.50 kg/ha 700 mL/1,000 L 1.50-1.75 kg/ha 140 g/ha 500 mL/ha 500 mL/ha	en large numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open, mains favorable for blossom blight. Fungicides in Groups other than M should be used in rotation with different Groups for Use high rate under high disease pressure. Do not mix with foliar fertilizers. Apply in 470-940 L of water per hectare. Do not make more than 5 applications per year. Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not apply within 14 days of an oil application. Will also suppress black knot. Apply first application at early bloom. Repeat according to weather conditions
Brown Rot (stem rot and		Blossom blight is f followed by two ad resistance manage Fracture Cueva Supra Captan Maestro Senator Rovral Indar Tilt Jade Mission	avoured by Iditional sp ement. M2 M4 M4 1 2 3 3 3 3 3 3 3 3	1.8 S 80 WDG 80 DF 50 SC 50 WP 75 WSP 250 E 250 E 250 E 418 EC	om period if weather ren 1.5-3.3 L/ha 0.5-2.0% solution 3.75-4.50 kg/ha 3.75-4.50 kg/ha 700 mL/1,000 L 1.50-1.75 kg/ha 140 g/ha 500 mL/ha 500 mL/ha 300 mL/ha	en large numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open, mains favorable for blossom blight. Fungicides in Groups other than M should be used in rotation with different Groups for Use high rate under high disease pressure. Do not mix with foliar fertilizers. Apply in 470-940 L of water per hectare. Do not make more than 5 applications per year. Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not apply within 14 days of an oil application. Will also suppress black knot. Apply first application at early bloom. Repeat according to weather conditions Use the higher rate for larger trees.

Disease & Insect		Products	Group	Formulation	Rate	Notes
PLUM - PREBLOOM (Whe	n Blo	ossoms Show White	e)			
Brown Rot (stem rot and						
blossom blight stages) cont'd	►	Sercadis	7	300 SU	333 mL/ha	Do not make more than 3 applications per year.
	►	Pristine	7, 11	WG	0.75-1.0 kg/ha	Will also control leaf spot and suppress powdery mildew. Do not make more than 5 applications per year.
	►	Luna Sensation	7, 11	SU	300-400 mL/ha	Do not make more than 2 applications before rotating to another fungicide group.
	►	Vangard	9	75 WG	370 g/ha	Do not make more than 2 applications per year.
	►	Serenade OPTI	44	WP	1.1-1.7 kg/ha	Suppression only but can be used with other products for resistance management.
	►	Regalia Maxx	P5		0.125-0.25% v/v in 500-1,000 L/ha water	Suppression only but can be used with other products for resistance management. Apply before symptoms develop Use low rate in tank-mix with other brown rot fungicides or high rate in rotation with other brown rot fungicides.
Black Knot		Prune out all knot	s from orch	ards during the do	rmant period and burn all	knots to destroy inoculum sources for black knot. Use one of the following fungicides.
	►	Supra Captan	M4	80 WDG	3.75-4.50 kg/ha	Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not apply within 14
	►	Maestro	M4	80 DF	3.75-4.50 kg/ha	days of an oil application. Will also control brown rot.
	►	Indar	3	75 WSP	140 g/ha	
	►	Tilt	3	250 E	500 mL/ha	
	►	Jade	3	250 E	500 mL/ha	

BLOOM Brown Rot & Black Knot

Use one of the fungicides listed under Prebloom. If wet weather above 16°C persists during the bloom period, two applications may be required during this stage of development.

Insects		Do not use an	ny insecticide	s during bloo	m.	
PETAL FALL/SHU	CK SF	PLIT				
Feeding Caterpillars		Use one of the	e following inse	ecticides if cate	erpillar feeding damage is pre	esent.
	►	Imidan	1B	70 WP	2.68 kg/ha	Do not make more than 3 applications per year.
	►	Dipel	11	2X DF	1.13-1.68 kg/ha	Best results if applications made in evening or on cloudy day.
	►	Exirel	28	100 SU	0.5-1.0 L/ha	Do not make more than four applications per year. See label for incompatible products.
Brown Rot		Use one of the	e fungicides lis	ted under Pret	oloom. Do not use Sercadis a	after petal fall.
Plum Curculio		Use one of the	e following inse	ecticides. Treat	when shucks are off and ter	nperatures are above 16°C.
	►	Imidan	1B	70 WP	2.68 kg/ha	Do not make more than 3 applications per year.
	►	Matador	3	120 EC	104 mL/ha	
	►	Pounce	3	384 EC	520 mL/ha	Pyrethroids (Group 3) are disruptive to IPM programs leading to mite flare ups and therefore should be avoided if
	►	Warrior	3	120 EC	104 mL/ha	alternatives are available. Do not make more than three applications per year. Avoid applying synthetic pyrethroids
	►	Silencer	3	120 EC	104 mL/ha	when temperatures rise above 20°C because they are much less effective under these conditions. Under high insect
	►	Perm-Up	3	EC	520 mL/ha	pressure may only provide suppression.
	►	Up-Cyde	3	2.5 EC	400 mL/ha	
	►	Ambush	3	500 EC	425 mL/ha	May provide suppression only under high pressure.
	►	Assail	4	70 WP	240 g/ha	Under high insect pressure may only provide supppresion. Do not make more than 4 applications per year.

Disease & Insect		Products	Group	Formulation	Rate	Notes
PLUM - PETAL FALL/SHU	JCK S	PLIT				
Plum Curculio cont'd	►	Clutch	4	50 WDG	210 g/ha	Do not make more than 2 applications per year.
	►	Exirel	28	100 SU	1.0-1.5 L/ha	Use the higher rate under greater insect pressure. Do not make more than four applications per year. See label for incompatible products.
Black Knot		Use one of the	fungicides list	ed under Prebloo	n.	
FIRST COVER (12 I	Davs	After Shuck	(Fall)			
Brown Rot	2			ed under Shuck F	all.	
Plum Curculio		Use one of the	insecticides li	sted under Shuck	Fall.	
Black Knot		Use one of the	fungicides list	ed under Shuck F	all.	
SECOND COVER (*	12 Da	avs After Fir	st Cover)			
Brown Rot				ed under Shuck F	all.	
Plum Curculio		Use one of the	insecticides li	sted under Shuck	Fall.	
SUMMER SPRAYS	(If N	eeded)				
European Red Mite			dicates treatm	ent is required us	e one of the following mit	icides.
	►	Acramite	UN	50 WS	851 g/ha	Do not make more than 1 application per year.
			22		-	Do not make more than 1 application per year. Effective on all life stages including eggs, nymphal stages and adult
	►	Envidor	23	240 SC	0.75 L/ha	females.
Aphids		If monitoring in	dicates treatm	ent is required us	e one of the following ins	ecticides.
	►	Admire	4A	240 F	230 mL/ha	Do not apply when bloom or flowering weeds are present. Do not make more than two applications per season.
	►	Clutch	4A	50 WDG	140-210 g/ha	Do not apply when bloom or flowering weeds are present. Do not make more than two applications per year.
	►	Closer	4C	SC	100-200 mL/ha	Do not apply when bloom or flowering weeds are present. Do not make more than two applications per year.
	►	Twinguard	4C, 5	WDG	250 g/ha	Do not apply when bloom or flowering weeds are present. Do not make more than two applications per year.
	►	Movento	23	240 SC	365 mL/ha	Do not apply when bloom or flowering weeds are present. Do not apply more than 1.83 L/ha per year. Control may no be visible for 2-3 weeks after treatment.
	►	Exirel	28	100 SU	0.75-1.5 L/ha	Use the higher rate under high pressure. Do not apply when bloom or flowering weeds are present. Do not make mor than four applications per year. See label for incompatible products.
	►	Beleaf	29	50 SG	120-160 g/ha	Use higher rates for greater pest populations and/or dense foliage. Do not make more than three applications per yea
	►	Кора	NC	SC	2% v/v	Begin applications when populations are low. Reapply every 1-3 weeks as needed. Test a small area of each variety factor to before spraying entire orchard. Applying soaps more than three times may cause plant injury. Avoid application in direct sunlight or to plants under stress. Combining this product with sulfur or applying this product with 3 days of sulfur application may increase the plant damage caused by sulfur on sensitive plants.
Spotted Wing Drosophila		Spotted wing d spotted wing d			uit, and larvae may be pro	esent at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact wil
	►	Malathion	1B	85E	610-855mL/1,000L	Recently registered through the minor use label expansion - pending label release. Will work more effectively if the temperature is 20° C or more or when temperatures will reach or exceed this minimum. Do not make more than 1 application per year.
	►	Imidan	1B	WP	2.68 kg/ha	Do not make more than 3 applications per year.
	•	Delegate	5	WDG	420 g/ha	Do not make more than 3 applications per year.
	►	Exirel	28	SC	1.0-1.5 L/ha	Begin applications when populations are low. Do not make more than 4 applications per season.
	►	Harvanta	28	50 SL	1.2-1.6 L/ha	Thorough coverage is essential. Do not apply a Group 28 insecticide consecutively more than 2 times within a 30 day period or within a single generation of insect pest.
PREHARVEST						
Brown Rot		Use one of the	fungicides list	ed under Shuck F	all. Check labels for pre-l	harvest intervals (PHI).
POSTHARVEST - F	BIII					
Fruit Rots	NUL		atment of fruit	will prolong stora	ge life and provide contro	ol of post harvest diseases.
	-	Scholar	12	230 SC	496 mL/378 L	Apply as dip or drench. Reduces storage rots during wet harvest seasons.
	~	Sonola	14	200 00	400 ME/070 E	Apply as ap or archon. Reduces storage for adming wet harvest seasons.

5. Sweet Cherry Orchard Calendar

Sweet Cherry Orchard Management Guide for Nova Scotia

A guide to insect, mite, and disease management in sweet cherry orchards. All rates are based on label rates. In some cases, reduced rates can be used based on factors such as tree size. Please refer to the label, product specific notes or your agricultural advisor for details. Always read the label before using any pesticide. Where differences between the label and this schedule occur, label information prevails.

Disease & Insect		Products	Group	Formulation	Rate	Notes
ORMANT						
acterial Canker		Copper application	n may help	to reduce the incid	ence of bacterial canker.	
	►	Copper Spray	M2	50 WP	6-9 kg/1,000 L	Apply in early spring before bud break. Later applications may cause injury. Use the lower rate on small trees and higher rate on large trees. Do not make more than two applications per year.
	►	Guardsman				Apply in early spring before bud break. Later applications may cause injury. Use the lower rate on small trees and
		Copper Oxychloride	M2	50 WP	6-9 kg/1,000 L	higher rate on large trees. Do not make more than two applications per year.
	►	Cueva	M1	1.8 S	1% v/v in 470-940 L water/ha	Apply as a dormant spray as buds begin to swell. Repeat at bud burst and weekly up to 6 sprays.
	►	Parasol Flowable	M1	SU	8.8-13.1 L/ha	Use low rate for small trees and high rate for large trees.
REBLOOM (When rown Rot (stem rot and possom blight stages)	Blos	Blossom blight is f	avoured by Iditional spi			large numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open, ains favorable for blossom blight. Fungicides in Groups other than M should be used in rotation with different Groups f
	►	Cueva	M1	1.8 S	0.5-2.0% solution	Apply in 470-940 L of water per hectare. Do not make more than 5 applications per year. During wet weather additional bloom sprays may be necessary.
	►	Supra Captan/	M4	80 WDG	3.75-4.50 kg/ha	Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not apply within 14
		Maestro	M4	80 DF	3.75-4.50 kg/ha	days of an oil application.
	►	Bravo ZN	M5		7 L/ha	Do not apply after shuck fall to avoid injury. Do not make more than 2 pre-harvest applications per year. Do not app within 10 days of an oil application.
	►	Fracture	М		1.5-3.3 L/ha	Use high rate under high disease pressure. Do not mix with foliar fertilizers.
	•	Senator	1	50 SC	700 mL/1.000 L	Apply first application at early bloom. Repeat according to weather conditions
	•	Rovral	2	50 WP	1.50-1.75 kg/ha	Use the higher rate for larger trees.
	►	Funginex	3	190 EC	2.50 L/ha	
	►	Indar	3	75 WSP	140 g/ha	
	►	Tilt	3	250 E	500 mL/ha	
	►	Jade	3	250 E	500 mL/ha	
	►	Mission	3	418 EC	300 mL/ha	
	►	Nova	3	40 WSP	340 g/ha	Apply when first blossoms are opening. Do not make more than 6 applications per year.
	►	Quash	3	WDG	175-245 g/ha	Use high rate under high disease pressure. Do not make more than 1 application per season.
	►	Fontelis	7	SC	1.0-1.75 L/ha	Use higher rate and shorter spray intervals when disease pressure is high. Do not use more than 4.5 L/ha per year
	►	Cantus	7	WDG	370 g/ha	Do not make more than 5 applications per year.
	►	Sercadis	7	300 SU	333 mL/ha	Do not make more than 3 applications per year.
	►	Pristine	7, 11	WG	0.75-1.0 kg/ha	Will also control leaf spot and suppress powdery mildew. Do not make more than 5 applications per year.
	►	Luna Sensation	7, 11	SU	300-400 mL/ha	Do not make more than 2 consecutive applications before rotating to a different fungicide group.
	►	Elevate	17	50 WDG	1.7 kg/ha	Do not make more than 4 applications per year.
	►	Serenade OPTI	44	WP	1.1-1.7 kg/ha	Suppression only but can be used with other products for resistance management.
	►	Regalia Maxx	P5	LC	0.125-0.25% v/v in 500-1,000 L water/ha	Suppression only but can be used with other products for resistance management. Apply before symptoms develop Use low rate in tank mix with other brown rot fungicides, or use high rate in rotation with other brown rot fungicides.
LOOM rown Rot (stem rot and ossom blight stages)		Use one of the fun	gicides list	ed under Prebloom	. If wet weather above 16	°C persists during the bloom period, two applications may be required during this stage of development.
sects		Do not use any ir	continidad	during bloom		
		DO NOT USE ANV IN	ISECTICIDES	s aurina pioom.		

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Disease & Insect	Products	Group	Formulation	Rate	Notes
PETAL FALL					
Black Cherry Aphid	Use one of the	e following inse	cticides if treatme	ent for black cherry aphie	d is required.
	 Admire 	4	240 F	230 mL/ha	Do not apply when bloom or flowering weeds are present. Do not make more than two applications per season.
	 Actara 	4A	25 WG	160 mL/ha	Do not apply when bloom or flowering weeds are present. Do not make more than two applications per season.
	 Clutch 	4A	50 WDG	210 g/ha	Do not apply when bloom or flowering weeds are present. Do not make more than two applications per year.
	 Closer 	4C		100-200 mL/ha	Apply before populations reach threshold. Where possible, rotate with products outside of group 4. Do not make more than two applications per year.
	 Movento 	23	240 SC	365 mL/ha	Do not apply when bloom or flowering weeds are present. Do not apply more than 1.83 L/ha per year. Control may not be visible for 2-3 weeks after treatment.
	 Beleaf 	29	50 SG	120-160 g/ha	Use higher rates for greater pest populations and/or dense foliage. Do not make more than three applications per year.
	► Кора	NC	SC	2% v/v	Begin applications when populations are low and reapply every 1-3 weeks as needed. Test a small area of each variety for tolerance before spraying entire orchard. Application of soaps more than three times may cause plant injury. Avoid application in direct sunlight or to plants under stress. Do not exceed 950 L/ha up to fruit formation.

SHUCK FALL

Brown Rot	Use one of the fungicides listed under Prebloom.												
Plum Curculio	Use one of the	following ins	ecticides. Treat v	when shucks are off and	temperatures are above 16°C.								
	Matador	3	120 EC	104 mL/ha	Pyrethroids (Group 3) are disruptive to IPM programs leading to mite flare ups and therefore should be avoided if alternatives are available. Do not make more than three applications per year. Avoid applying synthetic pyrethroids								
	Warrior	3	120 EC	104 mL/ha	when temperatures rise above 20°C because they are much less effective under these conditions. Under high insect pressure may only provide suppression.								
	 Silencer 	3	120 EC	104 mL/ha	pressure may only provide suppression.								
	Assail	4A	70 WP	240 g/ha	Under high insect pressure may only provide supppresion. Do not make more than 4 applications per year.								
	Clutch	4A	50 WDG	210 g/ha	Do not make more than 2 applications per year.								
	► Exirel	28	100 SU	1.0-1.5 L/ha	Use the higher rate under greater insect pressure. Do not make more than four applications per year. See label for incompatible products.								

FIRST COVER (12 Days After Shuck Split)

Brown Rot	Dayo		. ,	ted under Preblo	oom.							
Plum Curculio		Use one of the insecticides listed under Shuck Fall.										
SECOND COVER	(12 Da	ays After Firs	st Cover)									
Brown Rot		Use one of the	fungicides lis	ted under Preblo	oom.							
Plum Curculio		Use one of the	insecticides l	isted under Shud	ck Fall if new oviposition	scars are found. Some treatments for Cherry Fruit Fly may also control plum curculio.						
Cherry Fruit Fly		Use one of the	following inse	ecticides when m	nonitoring indicates cherr	ry fruit fly activity is present.						
	►	Silencer	3	120 EC	104 mL/ha	Pyrethroids (Group 3) are disruptive to IPM programs leading to mite flare ups and therefore should be avoided if alternatives are available. Do not make more than three applications per year. Avoid applying synthetic pyrethroids when temperatures rise above 20°C because they are much less effective under these conditions. Will also control plum curculio.						
	►	Admire	4A	240 F	230 mL/ha	Do not make more than 5 applications per year.						
	►	Delegate	5	WG	420 g/ha	Suppression only. Do not make more than 3 applications per year.						
	►	Entrust	5	240 SC	364 mL/ha	Do not make more than 5 applications per year.						
	►	GF-120	5	S	1.0-1.5 L/ha	Apply at 7 day intervals as fruit ripens, shortening the interval during rainy periods. Do not make more than 10 applications per year.						
	►	Exirel	28	100 SU	1.0-1.5 L/ha	Use the higher rate under greater insect pressure. Do not make more than four applications per year. See label for incompatible products. Will also control plum curculio.						

Disease & Insect		Products	Group	Formulation	Rate	Notes
SWEET CHERRY - SECO	ND C		oonhilo levi	ago in rinonir - f-	it and lance may be area	ent at her yest. If menitoring indicates treatment is required, use insectioides weakly. These are ducts solver an extent with
Spotted Wing Drosophila		spotted wing dros			in, and larvae may be pres	sent at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact with
		spotted wing dros	soprilla adul	15.		
						Recently registered through the minor use label expansion - pending label release. Will work more effectively if the
	►	Malathion	1B	85E	610-855mL/1,000L	temperature is 20° C or more or when temperatures will reach or exceed this minimum. Do not make more than 1
						application per year.
	►	Delegate	5	WDG	420 g/ha	Do not make more than 3 applications per year.
	►	Exirel	28	SC	1.0-1.5 L/ha	Begin applications when populations are low. Do not make more than 4 applications per season.
		Harvanta	28	50 SL	1.2-1.6 L/ha	Thorough coverage is essential. Do not apply a Group 28 insecticide consecutively more than 2 times within a 30 day
	-	Thatvarita	20	00 OE	1.2 1.0 E/na	period or within a single generation of insect pest.
THIRD COVER						
Brown Rot		Use one of the fu	ngicides list	ed under Prebloor	n.	
Cherry Fruit Fly				sted under Second		
Spotted Wing Drosophila		Use one of the ins	secticides li	sted under Second	d Cover.	
PREHARVEST						
Brown Rot		Use one of the fu	ngicides list	ed under Prebloor	n. Check labels for pre-har	rvest intervals (PHI).
Spotted Wing Drosophila		Use one of the ins	secticides li	sted under Second	d Cover.	
POSTHARVEST - FR	RUIT					
Fruit Rots			ment of fruit	will prolong storage	ge life and provide control	of post harvest diseases.
	►	Scholar	12	230 SC	496 mL/378 L	Apply as dip or drench. Reduces storage rots during wet harvest seasons.
POSTHARVEST - OI	RCH	ARD				
Leaf Spot			/here leaf sr	oot has been a pro	blem in the past	
					1% v/v in 470-940 L	· · · · ·
		Cueva	M1	1.8 S	water/ha	No product specific comments.
	►	Supra Captan/	M4	80 WDG	3.75-4.50 kg/ha	
	-	Maestro	M4	80 DF	3.75-4.50 kg/ha	Use higher rate for greater disease pressure. May cause injury under some circumstances.
	►	Pristine	7, 11	WG	0.75-1.0 kg/ha	Will also suppress powdery mildew. Do not make more than 5 applications per year.
	►	Flint	11	50 WG	175-210 g/ha	Do not make more than 5 applications per year.
	►	Equal	U12	65 WP	2.25 kg/ha	
	►	Syllit	U12	400 FL	2.0 L/1,000 L	Do not make more than 4 applications per year.
		Deselie Meur	P5	LC	0.125-0.5% v/v in 500-	Suppression only but can be used with other products for resistance management. Apply before symptoms develop.
		Regalia Maxx	P0	LC	1,000 L water/ha	Use low rate in a tank-mix with other leaf spot fungicides, or high rate in rotation with other leaf spot fungicides.
FALL SPRAY						
Bacterial Canker		Apply when 75%	of leaves ha	ave fallen, and whe	ere bacterial canker is exp	ected to be a problem.
		,			1% v/v in 470-940 L	•
		Cueva	M1	1.8 S	water/ha	Apply as dormant spray as buds begin to break in the spring. Apply in the fall at 10-80% leaf fall.
				50.14/0		Apply in early spring before bud break. Later applications may cause injury. Use the lower rate on small trees and
		Copper Spray	M2	50 WP	6-9 kg/1,000 L	higher rate on large trees. Do not make more than two applications per year.
	►	Guardsman				
		Copper	M2	50 WP	6-9 kg/1,000 L	Apply in early spring before bud break. Later applications may cause injury. Use the lower rate on small trees and
		Oxychloride			U	higher rate on large trees. Do not make more than two applications per year.
	►	Parasol	M1	SU	8.8-13.1 L/ha	Use low rate for small trees and high rate for large trees.

6. Sour Cherry Orchard Calendar

Sour Cherry Orchard Management Guide for Nova Scotia

A guide to insect, mite, and disease management in sour cherry orchards. All rates are based on label rates. In some cases, reduced rates can be used based on factors such as tree size. Please refer to the label, product specific notes or your agricultural advisor for details. Always read the label before using any pesticide. Where differences between the label and this schedule occur, label information prevails.

Disease & Insect		Products	Group	Formulation	Rate	Notes
DORMANT						
Bacterial Canker		Copper application	n may help	to reduce the incid	ence of bacterial canker.	
	►	Copper Spray	M2	50 WP	6-9 kg/1,000 L	Apply in early spring before bud break. Later applications may cause injury. Use the lower rate on small trees and higher rate on large trees. Do not make more than two applications per year.
	►	Guardsman Copper	M2	50 WP	6-9 kg/1,000 L	Apply in early spring before bud break. Later applications may cause injury. Use the lower rate on small trees and higher rate on large trees. Do not make more than two applications per year.
		Oxychloride			1% v/v in 470-940 L	Apply as buds begin to swell in spring repeating at bud burst, continuing weekly as needed, up to six sprays.
	►	Cueva	M1	1.8 S	water/ha	
	►	Parasol Flowable	M1	SU	8.8-13.1 L/ha	Apply in early spring before bud break. Use low rate on small trees and high rate for large trees.
PREBLOOM (When Brown Rot (stem rot and blossom blight stages)	Blo	Blossom blight is f	avoured by Iditional spr			n large numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open, ains favorable for blossom blight. Fungicides in Groups other than M should be used in rotation with different Groups for
	•	Fracture	М		1.5-3.3 L/ha	Use high rate under high disease pressure. Do not mix with foliar fertilizers.
	►	Kumulus	M1	80 DF	7.5 kg/1,000 L	Repeat if weather is wet.
		Microthiol	M1		0	•
	•	Disperss	IVI I	80 WP	7.5 kg/1,000 L	Repeat if weather is wet.
	►	Microscopic Sulphur	M1	92 WP	6.5 kg/1,000 L	Repeat if weather is wet. Do not apply if high tempeatures above 26°C and high humidity prevail or are expected durin the three days following application. Do not use sulphur within 30 days of an oil spray.
	►	Cueva	M1	1.8 S	0.5-2.0% solution	Apply in 470-940 L of water per hectare. Do not make more than 5 applications per year.
	►	Supra Captan/	M4	80 WDG	3.75-4.50 kg/ha	Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not apply within 14
		Maestro	M4	80 DF	3.75-4.50 kg/ha	days of an oil application.
	►	Bravo ZN	M5	SU	7 L/ha	Make 1-3 applications through prebloom to shuck split. See label for compatability restrictions. DO NOT apply after shuck split to avoid fruit injury.
	►	Echo	M5	90 DF	2.8-5.0 kg/ha	Make 1-3 applications through prebloom to shuck split. See label for compatability restrictions. Use higher rate for tree over 6m in height, or if weather is warm (above 16°C).
	►	Senator	1	50 SC	700 mL/1.000 L	Apply first application at early bloom. Repeat according to weather conditions
	•	Rovral	2	50 WP	1.50-1.75 kg/ha	Use the higher rate for larger trees.
	•	Funginex	3	190 EC	2.50 L/ha	
	•	Indar	3	75 WSP	140 g/ha	
	•	Tilt	3	250 E	500 mL/ha	
	•	Jade	3	250 E	500 mL/ha	Apply first application at early bloom followed by a second at 50 to 75% bloom. Will also suppress black knot.
	►	Mission	3	418 EC	300 mL/ha	
	•	Nova	3	40 WSP	340 g/ha	Apply when first blossoms are opening. Do not make more than 6 applications per year.
	•	Quash	3	WDG	175-245 g/ha	Use high rate under high disease pressure. Do not make more than 1 application per season.
	►	Fontelis	7	SC	1.0-1.75 L/ha	Use higher rate and shorter spray intervals when disease pressure is high. Do not use more than 4.5 L/ha per year.
	►	Cantus	7	WDG	370 g/ha	Do not make more than 5 applications per year.
	►	Sercadis	7	300 SU	333 mL/ha	Do not make more than 3 applications per year.
	►	Pristine	7, 11	WG	0.75-1.0 kg/ha	Will also control leaf spot and suppress powdery mildew. Do not make more than 5 applications per year.
	•	Luna Sensation	7, 11	SU	300-400 mL/ha	Do not make more than 2 consecutive applications before switching to a different fungicide group.
	►	Elevate	17	50 WDG	1.7 kg/ha	Do not make more than 4 applications per year.
	►	Serenade OPTI	44	WP	1.1-1.7 kg/ha	Suppression only but can be used with other products for resistance management.
	►	Regalia Maxx	P5	LC	0.125-0.25% v/v in 500-1,000 L water/ha	Suppression only but can be used with other products for resistance management. Apply before symptoms develop. Use low rate in tank mix with other brown rot fungicides, or high rate in rotation with other brown rot fundgicides.

Disease & Insect		Products	Group	Formulation	Rate	Notes				
LOOM										
rown Rot (stem rot and ossom blight stages)	d	Use one of the	fungicides liste	ed under Prebloor	n. If wet weather above	2 16 °C persists during the bloom period, two applications may be required during this stage of development.				
sects		Do not use an	y insecticides	during bloom.						
PETAL FALL										
Black Knot		Only apply a fu	ngicide where	there is a history	of black knot infections	. Black knot should be pruned out prior to bud break. Burn pruned out black knots.				
	►	Bravo	M5	500 SU	5.0-9.0 L/ha	Do not apply after shuck split to avoid fruit injury. Do not make more than 3 pre-harvest applicatons. Will also contro brown rot.				
	►	Bravo ZN	M5	SU	7 L/ha	See label for compatibility restrictions. Will also control brown rot.				
	►	Echo	M5	720 SU	4.2-6.3 L/ha	See laber for compatibility restrictions. Will also control brown for.				
	►	Tilt	3	250 E	500 mL/ha					
	►	Jade	3	250 E	500 mL/ha					
	•	Indar	3	75 WSP	140 g/ha					
SHUCK SPLIT										
Brown Rot		Use one of the	following fung	icides listed under	r Prebloom.					
Plum Curculio		Use one of the	<u> </u>							
	►	Imidan	1B	70 WP	2.68 kg/ha	Do not make more than 5 applications per year.				
	•	Matador	3	120 EC	104 mL/ha	Pyrethroids (Group 3) are disruptive to IPM programs leading to mite flare ups and therefore should be avoided if alternatives are available. Do not make more than three applications per year. Avoid applying synthetic pyrethroids				
	•	Warrior	3	120 EC	104 mL/ha	when temperatures rise above 20°C because they are much less effective under these conditions. Under high inser				
	►	Silencer	3	120 EC	104 mL/ha	pressure may only provide suppression.				
	►	Assail	4	70 WP	240 g/ha	Under high insect pressure may only provide suppression. Do not make more than 4 applications per year.				
	•	Clutch	4	50 WDG	210 g/ha	Do not make more than 2 applications per year.				
	•	Exirel	28	100 SU	1.0-1.5 L/ha	Use the higher rate under greater insect pressure. Do not make more than four applications per year. See label for incompatible products.				
EIRST COVER (12	Dave	ys After Shuck Split)								
Brown Rot	Duys			ed under Shuck S	plit if conditions for dise	ease development (warm, wet weather) are prevalent.				
Plum Curculio				sted under Shuck						
SECOND COVER	(12 D				- I					
Brown Rot				ed under Shuck S	plit if conditions for dise	ease development (warm, wet weather) are prevalent.				
Plum Curculio						cars are found. Some treatments for Cherry Fruit Fly may also control plum curculio.				
Cherry Fruit Fly						r fruit fly activity is present.				
	•	Imidan	1B	70 WP	2.68 kg/ha	Do not make more than 5 applications per year. Will also control plum curculio.				
						Pyrethroids (Group 3) are disruptive to IPM programs leading to mite flare ups and therefore should be avoided if				
	•	Silencer	3	120 EC	104 mL/ha	alternatives are available. Do not make more than three applications per year. Avoid applying synthetic pyrethroids				
		Ollericer	5	120 20	104 me/na	when temperatures rise above 20°C because they are much less effective under these conditions. Will also control				
						plum curculio.				
	•	Admire	4A	240 F	230 mL/ha	Do not make more than 5 applications per year.				
	►	Entrust	5	240 SC	364 mL/ha	Do not make more than 5 applications per year.				
	►	GF-120	5	S	1.0-1.5 L/ha	Apply at 7 day intervals as fruit ripens, shortening the interval during rainy periods. Do not make more than 10 applications per year.				
		Evinal	20	400.011	10151/6-	Use the higher rate under greater insect pressure. Do not make more than four applications per year. See label for				
		Exirel	28	100 SU	1.0-1.5 L/ha	incompatible products. Will also control plum curculio.				

Disease & Insect		Products	Group	Formulation	Rate	Notes
SOUR CHERRY - SECOND	CO	VER				
Spotted Wing Drosophila		Spotted wing dros	sophila lay e	eggs in ripening fru	it, and larvae may be pres	sent at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact with
						Recently registered through the minor use label expansion - pending label release. Will work more effectively if the
	►	Malathion	1B	85E	610-855mL/1,000L	temperature is 20° C or more or when temperatures will reach or exceed this minimum. Do not make more than 1
						application per year.
	►	Imidan	1B	WP	2.68 kg/ha	Do not make more than 4 applications per year.
	►	Delegate	5	WDG	420 g/ha	Do not make more than 3 applications per year.
	►	Exirel	28	SC	1.0-1.5 L/ha	Begin applications when populations are low. Do not make more than 4 applications per season.
		Llanuanta	20	50.01	4.0.4.01/ha	Thorough coverage is essential. Do not apply a Group 28 insecticide consecutively more than 2 times within a 30 day
		Harvanta	28	50 SL	1.2-1.6 L/ha	period or within a single generation of insect pest.
THIRD COVER						
Brown Rot		Use one of the fu	naicides list	ed under Shuck Sr	olit if conditions for diseas	e development (warm, wet weather) are prevalent.
Cherry Fruit Fly			0	sted under Shuck S		
Spotted Wing Drosophila				sted under Second		
PREHARVEST						
Brown Rot		Use one of the fu	naicides list	ed under Shuck Sr	olit. Check labels for pre-h	narvest intervals (PHI).
Spotted Wing Drosophila			0	sted under Second		
POSTHARVEST						
Leaf Spot		Only necessary w	vhere leaf sr	oot has been a pro	olem in the past	
	•	Bravo ZN	M5	SU	5.0-7.2 L/ha	Do not make more than 1 post harvest application per season.
		Bravo	M5	500 SU	5.0-9.0 L/ha	
		Echo	M5	720 SU	3.5-6.3 L/ha	Use higher rate for larger trees greater than 6 m in height.
	•	Supra Captan	M4	80 WDG	3.75-4.50 kg/ha	
	•	Maestro	M4	80 DF	3.75-4.50 kg/ha	Use higher rate for greater disease pressure. May cause injury under some circumstances.
					1% v/v in 470-940 L	
		Cueva	M1	1.8 S	water	Apple as a dormant spray in late fall during a period of dry weather.
	►	Pristine	7, 11	WG	0.75-1.0 kg/ha	Will also suppress powdery mildew. Do not make more than 5 applications per year.
		Flint	11	50 WG	175-210 g/ha	Do not make more than 5 applications per year.
		Equal	U12	65 WP	2.25 kg/ha	
		Syllit	U12	400 FL	2.0 L/1,000 L	Do not make more than 4 applications per year.
					0.125-0.25% v/v in	Suppression only but can be used with other products for resistance management. Apply before symptoms develop.
		Regalia Maxx	P5	LC	500-1,000 L water/ha	
FALL SPRAY						
				in automate al Ar. It -		
Bacterial Canker		Apply where bact	enal canker	is expected to be	a problem.	Apply in party and a barry had brack I ator applications may save state the laws sets an even the
	►	Copper Spray	M2	50 WP	6-9 kg/1,000 L	Apply in early spring before bud break. Later applications may cause injury. Use the lower rate on small trees and
		Cuardaman			-	higher rate on large trees. Do not make more than two applications per year.
		Guardsman	M0		0.0 km/1.000 l	Apply in early spring before bud break. Later applications may cause injury. Use the lower rate on small trees and
		Copper	M2	50 WP	6-9 kg/1,000 L	higher rate on large trees. Do not make more than two applications per year.
		Oxychloride			10/ v/v in 470 040 1	
	►	Cueva	M1	1.8 S	1% v/v in 470-940 L	Apply as dormant spray as buds begin to break in the spring. Apply in the fall at 10-80% leaf fall.
		Dereed			water	
	►	Parasol	M1	SU	8.8-13.1 L/ha	Spray at 75% leaf fall.
		Flowable				• •