

**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









# **Stone Fruit Management Guide**

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2021

Prepared by Perennia Food & Agriculture Inc.

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

#### **Editor and Production**

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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: http://pr-rp.hc-sc.gc.ca/ls-re/index-eng.php
- 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 (<a href="http://www.nsfa-fane.ca/efp/resources/factsheets/">http://www.nsfa-fane.ca/efp/resources/factsheets/</a>) include:

- 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

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. Please note: Red text is new to this guide in 2021

additional information.	additional information. Please note: Red text is new to this guide in 2021											
Active Ingredient	Product	Group Name	Group	Peach	Plum	Sweet Cherry	Sour Cherry	Preharvest Interval (days)	Re-Entry Interval	Management Activity	Diseases/Insects Controlled/Suppressed	
FUNGICIDES												
ferbam	Ferbam	Inorganic	M	✓				21	12 h		Peach leaf curl	
copper hydroxide	Parasol Flowable	Inorganic	M1	✓		✓	✓	dormant only	48 h		Peach leaf curl, bacterial canker (cherry)	
BLAD polypeptide	Fracture	Inorganic	M	✓	✓	✓	✓	0	12 h		Brown rot	
sulphur	Kumulus	Inorganic	M1	✓	✓		✓	1	24 h		Brown rot, peach scab, powdery mildew	
sulphur	Microthiol D./Microscopic Sulphur	Inorganic	M1	✓	✓		✓	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	✓		✓	✓	2	48 h		Peach leaf curl, bacterial canker (cherry)	
copper oxychloride	Copper 53 W	Inorganic	M2	✓			✓	2	48 h		Peach leaf curl	
thiram	Granuflo-T	EBDC	M3	✓				7	24 h		Brown rot, peach scab	
thiram	Thiram	EBDC	M3	✓	✓			7	12 h		Brown rot, peach scab, plum pockets	
captan	Maestro 80 WSP/Supra Captan 80 WSP	Phthalimide	M4	✓	✓	✓	✓	*2		General  Hand harvesting  Hand thinning	Brown rot, peach scab, black knot, cherry leaf spot  *The PHI is 2 days but due to worker safety if the REI for hand harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals.	
chlorothalonil	Bravo ZN	Chloronitrile	M5	✓		✓	✓	*60, 40	12 h	General	Peach leaf curl, brown rot, black knot, cherry leaf spot	
									11 d 8 d	Hand thinning peaches Hand thinning cherries	*(PHI 60 days peach, PHI 40 days cherries)	
chlorothalonil	Echo	Chloronitrile	M5	✓			<b>√</b>	*60, 40	12 h 11 d 8 d	General Hand thinning peaches Hand thinning cherries	Peach leaf curl, brown rot, cherry leaf spot, black knot *(PHI 60 days peach, PHI 40 days cherries)	
thiophanate-methyl	Senator	MBC	1	✓	✓	✓	✓	1	12 h		Brown rot	
triforine	Funginex	DMI	3	✓	✓	✓	✓		48 h		Brown rot (before petal fall only)	
fenbucanzole	Indar	DMI	3	✓	✓	✓	✓	1	12 h		Brown rot, black knot	
propiconazole	Jade	DMI	3	✓	✓	✓	✓	3	72 h		Brown rot, black knot	
propiconazole	Mission	DMI	3	✓	✓	✓	✓	3	72 h		Brown rot	
propiconazole	Tilt	DMI	3	✓	✓	✓	✓	3	72 h		Brown rot, black knot	
metconazole	Quash	DMI	3	✓	✓	✓	✓	14	12 h		Brown rot, powdery mildew	
mefentrifluconazole	Cevya	DMI	3	✓	✓	✓	✓	0	12 h		Brown rot and blossom blight, powdery mildew	

Active Ingredient myclobutanil fenpropathrin	Product Nova	Group Name DMI	3 Group	✓ ✓ Peach	Plum			Preharvest Interval (days)	5 d	hand thinning hand harvesting all other Hand thinning	Diseases/Insects Controlled/Suppressed Brown rot  Spotted wing drosophila, twospotted spider mite, tarnished plant bug
									7 d 24 h	Hand harvesting Scouting, hand pruning All other activities	
boscalid	Cantus	SDHI	7	✓	✓	✓	✓	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
fluopyram	Velum Prime	SDHI	7	✓	✓	✓	✓	0	12 h		Soil-dwelling, root-feeding nematodes of stone fruit
pydiflumetofen + difenoconazole	e Miravis Duo	SDHI + DMI	7, 3	✓	✓	✓	✓	0	12 h		Brown rot, blossom blight, fruit rot, peach scab
boscalid + pyraclostrobin	Pristine	SDHI + Qol	7,11	✓	✓	✓	✓	1	24h		Brown rot, cherry leaf spot
fluopyram + trifloxystrobin	Luna Sensation	SDHI + Qol	7,11	✓	✓	✓	✓	1	12 h		Brown rot, peach scab, powdery mildew
pyraclostrobin + fluxapyroxad	Merivon	SDHI + Qol	7, 11	<b>✓</b>	<b>√</b>	<b>✓</b>	<b>✓</b>	0	5 d	Hand thinning Hand harvesting Mechanical harvesting and all other activities	Anthracnose, blossom blight, brown rot, leaf spot, 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
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	✓				0	4 h		Powdery mildew
potassium bicarbonate	Sirocco		NC	✓				0	4 h		Powdery mildew
mineral oil	Purespray Green	Mineral oil	NC	✓				0	12 h		Powdery mildew
INSECTICIDES/MITICI											
petroleum oil	Superior Oil	Mineral oil	NC	✓	✓			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	✓	✓			7	12 h		European red mite, two-spotted spider mite

Active Ingredient	Product	Group Name	Group	Peach	Plum	Sweet Cherry	Sour Cherry	Preharvest Interval (days)	Re-Entry Interval		es/Insects Controlled/Suppressed
phosmet	Imidan	Organophosphate	1B	✓	✓		✓	14	7 d	Plum cur	culio, feeding caterpillars, cherry fruit fly, spotted wing drosophila
malathion	Malathion	Organophosphate	1B	✓	✓	✓	✓	7, 3	3 d	Spotted w	ving drosophila
permethrin	Ambush	Pyrethroid	3	✓	✓			7	12 h	Tarnishe	d plant bug, plum curculio
cypermethrin	Mako	Pyrethroid	3	✓				7, 2	12 h	Tarnishe	d plant bug, SWD in cherry
cypermethrin	Up-Cyde	Pyrethroid	3	✓	✓			7	12 h	Tarnishe	d plant bug, plum curculio
deltamethrin	Decis	Pyrethroid	3					1	12 h	Tarnishe	d plant bug
lambda-cyhalothrin	Matador/Warrior	Pyrethroid	3	✓	✓	✓	✓	7	24 h	Tarnishe	d plant bug, plum curculio
lambda-cyhalothrin	Silencer	Pyrethroid	3	✓	✓	✓	✓	7	24 h	Tarnishe	d plant bug, plum curculio, cherry fruit fly
permethrin	Pounce	Pyrethroid	3	✓	✓			7	12 h	Tarnishe	d plant bug, plum curculio
permethrin	Perm-Up	Pyrethroid	3	✓	✓			7	12 h	Plum cur	culio
acetamiprid	Assail	Neonicotinoid	4	✓	✓	✓	✓	7	12 h	Plum cur	culio, cherry fruit fly
sulfoxaflor	Closer	Neonicotinoid	4C	✓	✓	✓		7	12 h	Aphids (g	green peach, plum, black cherry)
sulfoxaflor + spinetoram	Twinguard	Neonicotinoid+Spinosyns	4C, 5	✓	✓			7	12 h	Aphids (g	green peach, plum, black cherry aphid)
flupyradifurone	Sivanto Prime	Neonicotinoid	4D	✓	✓	✓	✓	14	12 h	Aphids	
spinosad	Entrust	Spinosyns	5			✓	✓	14	12 h	Cherry fr	uit fly
spinosad	GF-120	Spinosyns	5			✓	✓	0	12 h	Cherry fr	uit fly
spinetoram	Delegate	Spinosyns	5	✓	✓	✓	✓	5	12 h	Spotted w	ving drosophila, aphids (green peach), cherry fruit fly suppression
afidopyropen	Versys	Pyropenes	9D	✓	✓	✓	✓	7	12 h	Black che	erry aphid
	Dipel 2XDF	Bt Microbial	11	✓				0	12 h	Feeding of	caterpillars
· ·	Nexter	Pyridazinone	21	✓				7	24 h	-	n red mite, two-spotted spider mite
	Movento	Tetronic Acid	23	✓	✓	✓		7	12 h		green peach, plum, black cherry)
•	Envidor	Tetronic Acid	23	✓	✓			7	12 h		n red mite, two-spotted spider mite
cyclaniliprole	Harvanta	Pyrazolylphenyl	28	✓	✓	✓	✓	7	12 h		ving drosophila, plum curculio
	Exirel	Ryanodine receptors	28	✓	✓	✓	✓	3	12 h	Aphids (	green peach, plum), plum curculio, feeding caterpillars, cherry potted wing drosophila
	Beleaf	Chordotanol Organ Modulators	29	✓	✓	✓		14	12 h	Aphids (	green peach, plum, black cherry)
GROWTH REGULATOR	RS										
Prohexadione calcium	Apogee	Plant growth regulator	NC			✓	✓	20	12 h	Terminal	growth management
Prohexadione calcium	Kudos	Plant growth regulator	NC			✓	✓	20	12 h	Terminal	growth management
Gibberellic Acid	Falgro Tablet	Plant growth regulator	NC			✓	✓	21	12 h		it ripening 4–5 days, delaying susceptibility to rain cracks
Gibberellic Acid	ProGibb	Plant growth regulator	NC			✓	✓	21	12 h		it ripening 4–5 days, delaying susceptibility to rain cracks

## 3. Peach Orchard Calendar

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. Please note: Red text is new to this guide in 2021

Disease & Insect		Products	Group	Formulation	Rate	Notes
DORMANT						
Peach Leaf Curl						pplication may not be needed where a fall spray was applied at leaf drop. Spring fungicide applications need to be applied just swell can result in poor control.
	<b>•</b>	Bravo ZN	M5	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 1,000 L
	•	Echo	M5	90 WSP	2.8-3.9 kg/ha	of water per hectare. Apply one application for peach leaf curl either as a fall or spring dormant spray.
	•	Ferbam	М3	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. <b>Product is being</b> phased-out. Last date of use is Dec 14, 2021.
	<b>&gt;</b>	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.
Bacterial spot	<b>•</b>	Cueva	M1	1.8 S	1% v/v	Do not exceed 5 applications per year. Reapply at 5-10 day intervals.
PREBLOOM (Half-in European Red Mite	ch	Green to First Check compatibility		cides for peach lea	f curl and brown rot.	
·	<b>•</b>	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 just prior to
	<b>•</b>	Purespray Green Spray Oil	NC	13 E	20 L/1,000 L or 60 L/ha	expected freezing temperatures or immediately following a frost. Do not apply when temperatures are greater than 30°C
	•	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.
Nematodes	•	Velum Prime	7	SC	500 mL/ha	Apply specified dosage by chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment. For optimum results, apply to trees previously trained to drip, trickle or micro-sprinkler irrigation. Young trees have the most potential benefit. Soil must be lightly pre-wetted prior to application. Do not apply more than 500 g fluopyram/haper year, noting that the foliar fungicide Luna Sensation also contains fluopyram.
PINK		Placeom blight:- f-	a voured by	wot woother (ab	16°C) conocially when I	urgo numbers of numming (dried infected fruit) are present on the tree. Demonstrate when numing April 5-14 are significant.
Brown Rot (blossom blight stage)		•	oen, followe	d by two additional		rge numbers of mummies (dried infected fruit) are present on the tree. Remove mummies when pruning. Apply first spray just eriod if weather remains favorable for blossom blight. Fungicides in Groups other than M should be used in rotation with differen
	<b></b>	Fracture	М		1.5-3.3 L/ha	Suppression only. Use high rate under high disease pressure. Do not mix with foliar fertilizers.
	<b>&gt;</b>	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.
	<b>&gt;</b>	Granuflo-T	М3	75 WDG	1.5-2.25 kg/1,000 L	Use higher rate for greater disease pressure. Product is being phased-out. Last date of use is Dec 14, 2021.

Disease & Insect	Products	Group	Formulation	Rate	Notes
	► Thiram	М3	75 WP	1.5-2.25 kg/1,000 L	Use higher rate for greater disease pressure. Apply at intervals of 3 to 4 days during bloom. <b>Product is being phased-out. Last date of use is Dec 14, 2021.</b>
	► Maestro	M4	80 WSP	4.00 kg/ha	Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not use 14 days before or after an oil application. Refer to re-entry intervals for specific activities (ranging from 1 to 29 days). If the REI for hand
	Supra Captan	М	80 WSP	4.00 kg/ha	harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals. Do not apply more than one application per year.
	► Bravo ZN	M5	SU	5.0-9.0 L/ha	Apply 1-2 applications from pink through shuck period. Use higher rate per hectare for trees greater than 6 metres in height, or if weather is warm (above 16°C) and wet during bloom. DO NOT make more than 3 applications per year including a
	► Echo	M5	90 WSP	2.8-5.0 kg/ha	dormant spray.
	► Senator	1	50 SC	700 mL/1,000 L	Apply first application at early bloom. Repeat according to weather conditions. Increased risk reduction measures expected by Dec 3, 2022.
	▶ 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.
	► Cevya	3	SC	0.25 - 0.375 L/ha	Under high pressure and during rapid growth, use the higher rate and shorter spray interval. Do not use more than 1.125 L.ha per year.
	► 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.
	► Miravis Duo	7, 3	SC	1.0 L/ha	Do not apply more than 4.0 L/ha per year. Apply a maximum of 2 applications before switching to a non-group 7 and 3 fungicide.
	Pristine	7, 11	WG	0.75-1.0 kg/ha	Do not make more than 5 applications per year.
	<ul><li>Luna Sensation</li></ul>	7, 11	SU	300-400 mL/ha	Use no more than two consecutive applications before rotating to a different fungicide group.
	► Merivon	7, 11	SU	0.3-0.4 L/ha	Do not make more than 3 applications per year. A nonionic surfactant may be used. Caution should be exercised if tank mixed with products formulated as emulsifiable concentrates (EC).
	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.
	<ul><li>Serenade OPTI</li></ul>	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. Use in
	► Regalia Maxx	P5	LC	0.125-0.25% v/v	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 fun	aicides liste	d under Pink. If wet	weather above 16°C pers	sists during the bloom period, two applications may be required during this stage of development.
Insects	Do not use any i	•			
PETAL FALL to S		riscotiolacs	during bloom.		
Brown Rot	Use one of the fun	gicides liste	d under Pink. If wet	weather above 16°C pers	sists, additional applications may be required. Do not use Funginex after bloom.
Green Peach Aphid	Use one of the foll	owing insec	ticides if treatment f	or green peach aphid is r	required.
	► 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.
	► 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.

Disease & Insect		Products	Group	Formulation	Rate	Notes
	<b></b>	Sivanto Prime	4D	SN	750 mL/ha	Maximum Sivanto Prime Insecticide allowed per crop season: 2000 mL/ha
	•	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
	_	WOVCHO				visible for 2-3 weeks after treatment.
	<b>&gt;</b>	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.
	٠	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 fun	gicides liste	d under Pink. If we	t weather above 16°C pers	sists, additional applications may be required. Do not use Sercadis after petal fall. Do not use Bravo after shuck split.
Peach Scab		Peaches are susc additional applicat				eks before harvest. The shuck fall application is particularly important for disease control. Periods of wet weather will require
	<b></b>	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.
	<b>&gt;</b>	Microscopic Sulphur	M1	92 WP	6.5 kg/1,000 L	Repeat if weather is wet. Will also control brown rot.
	•	Granuflo-T	М3	75 WDG	1.5-2.25 kg/1,000 L	Use higher rate for greater disease pressure. Will also control brown rot. <b>Product is being phased-out. Last date of use is Dec 14. 2021.</b>
	•	Maestro	M4	80 WSP	4.00 kg/ha	Use higher rate for greater disease pressure. May cause injury under some circumstances. Will also control brown rot. Do not use 14 days before or after an oil application. Refer to re-entry intervals for specific activities (ranging from 1 to 29 days). If the REI for hand harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals. Do not
	<b>&gt;</b>	Supra Captan	M	80 WSP	4.00 kg/ha	apply more than one application per year.
	•	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.
	•	Miravis Duo	7, 3	SC	1.0 L/ha	Do not apply more than 4.0 L/ha per year. Apply a maximum of 2 applications before switching to a non-group 7 and 3 fungicide.
	<b>&gt;</b>	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	<b>&gt;</b>	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 mildew	/ can be seen on th	e terminal leaves of shoots	s where leaves will become white, misshapen and puckered.
	<b></b>	Kumulus	M1	80 DF	11.3-12.0 kg/ha	Repeat in 10-14 days.
	•	Quash	3	WDG	280 g/ha	Suppression only.
	•	Cevya	3	SC	0.25 - 0.375 L/ha	Under high pressure and during rapid growth, use the higher rate and shorter spray interval. Do not use more than 1.125 L.ha per year.
	•	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.
	•	Merivon	7, 11	SU	0.3-0.4 L/ha	Do not make more than 3 applications per year. A nonionic surfactant may be used. Caution should be exercised if tank mixed with products formulated as emulsifiable concentrates (EC).  Suppression only but can be used with other products for resistance management. Apply before symptoms develop. Use low
	<b>&gt;</b>	Regalia Maxx	P5	LC	0.125-0.25% v/v	rate in 1,000 L water in a tank mix with other powdery mildew fungicides, or high rate in 1,000 L water in rotation with other powdery mildew fungicides.

Disease & Insect		Products	Group	Formulation	Rate	Notes				
	•	Vivando SC	U8	SC	0.75-1.12 L/ha	Begin applications prior to disease development. Do not make more than 2 applications per year. Use higher rate and shorte interval when disease pressure is high.				
Tarnished Plant Bug		Treatment perio	d is from early	green fruit stage t	o pit hardening. Use one o	of the following insecticides if tarnished plant bug pressure is high. Repeat treament in 5-7 days if additional stings are detected.				
	<b></b>	Ambush	3	500 EC	400 ml/ha					
	<b>&gt;</b>	Matador	3	120 EC	104 mL/ha	Do not make more than three applications per year. Avoid applying synthetic pyrethroids when temperatures rise above 20°				
	<b>&gt;</b>	Pounce	3	384 EC	520 mL/ha	because they are much less effective under these conditions. Synthetic pyrethroid treatments for tarnished plant bug will als				
	<b>&gt;</b>	Mako	3	400 EC	175 mL/ha	control plum curculio. Ambush may provide suppression only under high disease pressure.				
	<b>&gt;</b>	Silencer	3	120 EC	104 mL/ha	control plant curculo. Ambush may provide suppression only under night disease pressure.				
	<b>•</b>	Up-Cyde	3	2.5 EC	280 mL/ha					
Plum Curculio		Plum curculio is new damage is		st of peaches whic	ch may not require control	. Scout orchard rows bordering woodlands. Check fruit for new damage 7-10 days after treatment and apply a second application				
	•	Malathion	1B	85E	490-855 mL/1000L	Do not make more than 1 application per year.				
	<b>•</b>	Pounce	3	384 EC	275-520 mL/ha	Under high insect procesure may only provide cumprocion				
	<b>•</b>	Perm-Up	3	EC	520 mL/ha	Under high insect pressure may only provide supppresion.				
	•	Assail	4	70 WP	240 g/ha	Under high insect pressure may only provide supppresion. 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. See label for incompatible products.				
FIRST COVER (12	Days	After Shuc	k Fall)							
Brown Rot		Use one of the f	ungicides listed	l under Pink. If we	t weather above 16°C pers	sists, additional applications may be required.				
Peach Scab		Use one of the f	ungicides listed	l under Pink. If we	t weather persists, additio	nal applications may be required.				
Bacterial Spot		Use one of the fungicides listed under Shuck Fall if bacterial spot has been a problem.								
Tarnished Plant Bug		Use of the insec	ticides listed u	nder Shuck Fall if	additional plant bug dama	ge is observed after the first application.				
Plum Curculio		Use of the insec	ticides listed u	nder Shuck Fall if	additional plum curculio d	lamage is observed after the first application.				
SECOND COVER (	12 D	ays After Fir	st Cover)							
Brown Rot		Use one of the f	ungicides listed	l under Pink. If we	t weather above 16°C per	sists, additional applications may be required.				
Peach Scab		Use one of the f	ungicides listed	l under Pink. If we	t weather persists, additio	nal applications may be required.				
Bacterial Spot		Use one of the f	ungicides listed	l under Shuck Fall	if bacterial spot has been	a problem.				
SUMMER SPRAYS	(If N	eeded)								
European Red Mite & Two spotted Spider Mite	-	If monitoring inc	licates treatme	nt is required use	one of the following mitici	des.				
	<b></b>	Acramite	UN	50 WS	851 g/ha	Do not make more than 1 application per year.				
	<b>&gt;</b>	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.				
	<b>&gt;</b>	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				
Spotted Wing Drosophila		Spotted wing dro wing drosophila	, , ,	gs in ripening fruit	, and larvae may be prese	ent at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact with spotted				

Disease & Insect		Products	Group	Formulation	Rate	Notes						
	<b>•</b>	Malathion	1B	85E	610-855mL/1,000L	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.						
	<b>•</b>	Imidan	1B	WP	2.68 kg/ha	Do not make more than 4 applications per year. Transition to newly amended labels by October 30, 2022.						
	•	Danitol	3	EC	779-1559 mL/ha	Do not exceed 1 application per year.						
	<b>&gt;</b>	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.						
<b>PREHARVEST</b>												
Brown Rot		Use one of the fung	icides liste	d under Pink. Chec	k labels for pre-harvest i	ntervals (PHI).						
Spotted Wing Drosophila		Use one of the inse	Use one of the insecticides listed under Summer Sprays.									
POSTHARVEST - F Fruit Rots	RUI1		ent of fruit v	vill prolong storage	e life and provide control o	of post harvest diseases.						
	<b></b>	Scholar	12	230 SC	496 mL/378 L	Apply as dip or drench. Reduces storage rots during wet harvest seasons.						
<b>FALL SPRAY</b>												
Peach Leaf Curl		Apply at 75-100% l	eaf drop in t	he fall when tempe	erature is above freezing.							
	<b>&gt;</b>	Cueva	M1	1.8 S	470-940 mL/ha	Apply as a late fall dormant spray during a period of dry weather.						
	•	Bravo ZN	M5	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 1,000 L						
	<b>&gt;</b>	Echo	M5	90 WSP	2.8-3.9 kg/ha	of water per hectare. Apply one application either as a fall or spring dormant spray at 75- 100% leaf drop. DO NOT make more than 3 applications per year including a dormant spray.						
	<b>&gt;</b>	Ferbam	М3	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. <b>Product is being</b> phased-out. Last date of use is Dec 14, 2021.						
	<b>&gt;</b>	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. Apply in fall after leaves have fallen.						
	<b>&gt;</b>	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.						
	<b>&gt;</b>	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	sui end	gery to remove cank ds and side of the car	kers when 3 nker. The re	-5 days of dry wea sulting wound whe	ther are forceast. Surger	Delay canker and dead wood removal until June or July when re-growth and healing of the tree can take place rapidly. Conduct y involves the removal of all diseased bark from around the canker, removing at least 1.25 cm of healthy tissue from around the smooth margin and be slightly rounded above and below to favour rapid wound closure. It is felt these wounds will heal better if left nement for re-infection.						

## 4. Plum Orchard Calendar

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. Please note: Red text is new to this guide in 2021

Disease & Insect		Products	Group	Formulation	Rate	Notes
DORMANT			J. J. B			
Plum Pockets		Only Japanese cult	tivars (such	as Burbank, Shiro,	Early Golden, etc.) are infe	ected by this fungus. Treatment should be based on history of infection.
	<b>•</b>	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. Product is being phased-out. Last date of use is Dec 14, 2021.
<b>GREEN TIP (Bud Bu</b>	rst)					
European Red Mite			y with fungi	cides for 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 just prior to expected freezing temperatures or immediately following a frost. Check compatibility with fungicides.
	•	Purespray Green Spray Oil	NC	13 E	20 L/1,000 L or 60 L/ha	expected freezing temperatures or immediately following a frost. Officer companionly with tangicities.
	•	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 for tolerance before spraying entire orchard. Applying soaps more than three times may cause plant injury. Avoid application in direct subjects to plants under others. Do not exply more than 150 L/ha proved the first formation.
PREBLOOM (When I	Blog	ssoms Show I	Mhita)			direct sunlight or to plants under stress. Do not apply more than 950 L/ha spray solution up to fruit formation.
Brown Rot (stem rot and blossom blight stages)	SIOS	Blossom blight is fa	avoured by	•	** *	rge numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open, followed by or blossom blight. Fungicides in Groups other than M should be used in rotation with different Groups for resistance
	•	Fracture	М		1.5-3.3 L/ha	Suppression only. 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.
	•	Maestro	M4	80 WSP	4.00 kg/ha	Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not use 14 days before or after an oil application. Refer to re-entry intervals for specific activities (ranging from 1 to 29 days). If the REI for hand harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals. Do not apply more than one
		Supra Captan	M	80 WSP	4.00 kg/ha	application per year.
	<b>•</b>	Senator	1	50 SC	700 mL/1,000 L	Apply first application at early bloom. Repeat according to weather conditions. Increased risk reduction measures expected by Dec 3, 2022.
	•	Indar	3	75 WSP	140 g/ha	
	•	Tilt	3	250 E	500 mL/ha	
	$\blacktriangleright$	Jade	3	250 E	500 mL/ha	
	$\blacktriangleright$	Mission	3	418 EC	300 mL/ha	
	$\blacktriangleright$	Quash	3	WDG	175-245 g/ha	Use higher rate under high disease pressure. Do not make more than 1 application per season.
	•	Cevya	3	SC	0.25 - 0.375 L/ha	Under high pressure and during rapid growth, use the higher rate and shorter spray interval. Do not use more than 1.125 L.ha per year.
	•	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.
	$\blacktriangleright$	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.
	•	Miravis Duo	7, 3	SC	1.0 L/ha	Do not apply more than 4.0 L/ha per year. Apply a maximum of 2 applications before switching to a non-group 7 and 3 fungicide.
	•	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.

Disease & Insect	Products	Group	Formulation	Rate	Notes
	► Merivon	7, 11	SU	0.3-0.4 L/ha	Do not make more than 3 applications per year. A nonionic surfactant may be used. Caution should be exercised if tank mixed with products formulated as emulsifiable concentrates (EC).
	▶ 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.
				0.125-0.25% v/v in 500-	
	Regalia Maxx	P5		1.000 L/ha water	rate in tank-mix with other brown rot fungicides or high rate in rotation with other brown rot fungicides.
Black Knot	Prune out all knots	s from orcha	ds during the dorm	ant period and burn all knot	is to destroy inoculum sources for black knot. Use one of the following fungicides.
	► Maestro	M4	80 WSP	4.00 kg/ha	Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not use 14 days before or after an oil application. Refer to re-entry intervals for specific activities (ranging from 1 to 29 days). If the REI for hand
	Supra Captan	М	80 WSP	4.00 kg/ha	harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals. Do not apply more than one application per year.
	▶ Indar	3	75 WSP	140 g/ha	
	▶ Tilt	3	250 E	500 mL/ha	
	▶ Jade	3	250 E	500 mL/ha	
Nematodes BLOOM	► Velum Prime	7	SC	500 mL/ha	Apply specified dosage by chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment. For optimum results, apply to trees previously trained to drip, trickle or micro-sprinkler irrigation. Young trees have the most potential benefit. Soil must be lightly pre-wetted prior to application. Do not apply more than 500 g fluopyram/haper year, noting that the foliar fungicide Luna Sensation also contains fluopyram.
Brown Rot & Black Knot	t Use one of the fun	igiciaes iistea	i under Prebloom. I	rwet weather above 16°C p	persists during the bloom period, two applications may be required during this stage of development.
	Do not use any i	insecticides	during bloom.		
Insects PETAL FALL/SHI Feeding Caterpillars	UCK SPLIT			feeding damage is present.	
PETAL FALL/SH	UCK SPLIT  Use one of the foll  ► Imidan	owing insect	icides if caterpillar 70 WP	2.68 kg/ha	Do not make more than 3 applications per year. Transition to newly amended labels by October 30, 2022.
PETAL FALL/SH	UCK SPLIT  Use one of the foll  ► Imidan  ► Dipel	owing insect 1B 11	icides if caterpillar 70 WP 2X DF	2.68 kg/ha 1.13-1.68 kg/ha	Best results if applications made in evening or on cloudy day.
PETAL FALL/SHI Feeding Caterpillars	UCK SPLIT  Use one of the foll  Imidan  Dipel  Exirel	owing insect 1B 11 28	icides if caterpillar 70 WP 2X DF 100 SU	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.
PETAL FALL/SHI Feeding Caterpillars Brown Rot	UCK SPLIT  Use one of the foll  ► Imidan  ► Dipel  ► Exirel  Use one of the fun	owing insect 1B 11 28 gicides listed	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. [	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after pa	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.
PETAL FALL/SHI Feeding Caterpillars  Brown Rot	UCK SPLIT  Use one of the foll  Imidan  Dipel  Exirel  Use one of the fun  Use one of the foll	owing insect 1B 11 28 gicides listed owing insect	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. I	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after pe shucks are off and tempera	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.  tures are above 16°C.
PETAL FALL/SHI Feeding Caterpillars Brown Rot	UCK SPLIT  Use one of the foll  Imidan  Dipel  Exirel  Use one of the fun  Use one of the foll  Imidan	owing insect 1B 11 28 gicides listed owing insect 1B	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. I icides. Treat when 70 WP	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after pe shucks are off and tempera 2.68 kg/ha	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.
PETAL FALL/SHI Feeding Caterpillars Brown Rot	UCK SPLIT  Use one of the foll  Imidan  Dipel  Exirel  Use one of the fun  Use one of the foll  Imidan  Matador	owing insect 1B 11 28 gicides listed owing insect	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. I	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after pe shucks are off and tempera	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.  tures are above 16°C.  Do not make more than 3 applications per year.
PETAL FALL/SHI Feeding Caterpillars Brown Rot	UCK SPLIT  Use one of the foll  Imidan  Dipel  Exirel  Use one of the fun  Use one of the foll  Imidan  Matador  Pounce	owing insect  1B  11  28  gicides lister owing insect  1B  3  3	icides if caterpillar 70 WP 2X DF 100 SU dunder Prebloom. I icides. Treat when 70 WP 120 EC	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after pe shucks are off and tempera 2.68 kg/ha 104 mL/ha 520 mL/ha	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.  tures are above 16°C.  Do not make more than 3 applications per year.  Pyrethroids (Group 3) are disruptive to IPM programs leading to mite flare ups and therefore should be avoided if alternatives
PETAL FALL/SHI Feeding Caterpillars Brown Rot	USE ONE OF THE FOIL  USE ONE OF THE FOIL  Imidan  Dipel  Exirel  USE ONE OF THE FOIL  USE ONE OF THE FOIL  Imidan  Matador  Pounce  Warrior	owing insect  1B  11  28  gicides lister owing insect  1B  3  3  3	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. I icides. Treat when 70 WP 120 EC 384 EC	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after peshucks are off and tempera 2.68 kg/ha 104 mL/ha 520 mL/ha 104 mL/ha	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.  tures are above 16°C.  Do not make more than 3 applications per year.  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.
PETAL FALL/SHI Feeding Caterpillars Brown Rot	USE ONE OF THE FOLLOW SPLIT  USE ONE OF THE FOLLOW SPLIT SP	owing insect  1B  11  28  gicides lister owing insect  1B  3  3  3	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. I icides. Treat when 70 WP 120 EC 384 EC 120 EC 120 EC	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after pe shucks are off and tempera 2.68 kg/ha 104 mL/ha 520 mL/ha 104 mL/ha 104 mL/ha	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.  tures are above 16°C.  Do not make more than 3 applications per year.  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. Under high insect pressure may only provide
PETAL FALL/SHI Feeding Caterpillars Brown Rot	UCK SPLIT  Use one of the foll  Imidan  Dipel  Exirel  Use one of the fun  Use one of the fun  Use one of the foll  Imidan  Matador  Pounce  Warrior  Silencer  Perm-Up	owing insect  1B  11  28 gicides lister owing insect  1B  3  3  3  3	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. I icides. Treat when 70 WP 120 EC 384 EC 120 EC 120 EC EC	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after pe shucks are off and tempera 2.68 kg/ha 104 mL/ha 520 mL/ha 104 mL/ha 520 mL/ha	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.  tures are above 16°C.  Do not make more than 3 applications per year.  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.
PETAL FALL/SHI Feeding Caterpillars  Brown Rot	UCK SPLIT  Use one of the foll  Imidan  Dipel  Exirel  Use one of the fun  Use one of the fun  Use one of the foll  Imidan  Matador  Pounce  Warrior  Silencer  Perm-Up  Uge one of the fun  Use one of the fu	owing insect  1B  11  28 gicides lister owing insect  1B  3  3  3  3  3	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. I icides. Treat when 70 WP 120 EC 384 EC 120 EC 120 EC 2.5 EC	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after pe shucks are off and tempera 2.68 kg/ha 104 mL/ha 520 mL/ha 104 mL/ha 520 mL/ha 400 mL/ha	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.  tures are above 16°C.  Do not make more than 3 applications per year.  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. Under high insect pressure may only provide suppression.
PETAL FALL/SHI Feeding Caterpillars  Brown Rot	UCK SPLIT  Use one of the foll  Imidan  Dipel  Exirel  Use one of the fun  Use one of the fun  Use one of the foll  Imidan  Matador  Pounce  Warrior  Silencer  Perm-Up  Up-Cyde  Ambush	owing insect  1B  11  28 gicides lister owing insect  1B  3  3  3  3  3  3	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. It icides. Treat when 70 WP 120 EC 384 EC 120 EC 120 EC 120 EC 2.5 EC 500 EC	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after pe shucks are off and tempera 2.68 kg/ha 104 mL/ha 520 mL/ha 104 mL/ha 520 mL/ha 400 mL/ha 425 mL/ha	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.  tures are above 16°C.  Do not make more than 3 applications per year.  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. Under high insect pressure may only provide suppression.  May provide suppression only under high pressure.
PETAL FALL/SHI Feeding Caterpillars  Brown Rot	UCK SPLIT  Use one of the foll  Imidan  Dipel  Exirel  Use one of the fun  Use one of the fun  Use one of the foll  Imidan  Matador  Pounce  Warrior  Silencer  Perm-Up  Uge one of the fun  Use one of the fu	owing insect  1B  11  28 gicides lister owing insect  1B  3  3  3  3  3	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. I icides. Treat when 70 WP 120 EC 384 EC 120 EC 120 EC 2.5 EC	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after pe shucks are off and tempera 2.68 kg/ha 104 mL/ha 520 mL/ha 104 mL/ha 520 mL/ha 400 mL/ha	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.  tures are above 16°C.  Do not make more than 3 applications per year.  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. Under high insect pressure may only provide suppression.  May provide suppression only under high pressure.  Under high insect pressure may only provide supppresion. Do not make more than 4 applications per year.  Use the higher rate under greater insect pressure. Do not make more than four applications per year. See label for
PETAL FALL/SHI Feeding Caterpillars  Brown Rot Plum Curculio	UCK SPLIT  Use one of the foll  Imidan  Dipel  Exirel  Use one of the fun  Use one of the fun  Use one of the foll  Imidan  Matador  Pounce  Warrior  Silencer  Perm-Up  Up-Cyde  Ambush  Assail  Exirel	owing insect  1B  11  28  gicides lister owing insect  1B  3  3  3  3  4  28	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. I icides. Treat when 70 WP 120 EC 384 EC 120 EC 120 EC 120 EC C 500 EC 70 WP	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after poshucks are off and tempera 2.68 kg/ha 104 mL/ha 520 mL/ha 104 mL/ha 104 mL/ha 520 mL/ha 400 mL/ha 400 mL/ha 425 mL/ha	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.  tures are above 16°C.  Do not make more than 3 applications per year.  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. Under high insect pressure may only provide suppression.  May provide suppression only under high pressure.  Under high insect pressure may only provide supppresion. Do not make more than 4 applications per year.
PETAL FALL/SHI Feeding Caterpillars  Brown Rot Plum Curculio	USE ONE OF THE SPILIT  USE ONE OF THE FOIL  Imidan  Dipel  Exirel  USE ONE OF THE FOIL  USE ONE OF THE FOIL  Imidan  Matador  Pounce  Warrior  Silencer  Perm-Up  Up-Cyde  Ambush  Assail	owing insect  1B  11  28  gicides lister owing insect  1B  3  3  3  3  4  28	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. I icides. Treat when 70 WP 120 EC 384 EC 120 EC 120 EC 120 EC C 500 EC 70 WP	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after poshucks are off and tempera 2.68 kg/ha 104 mL/ha 520 mL/ha 104 mL/ha 104 mL/ha 520 mL/ha 400 mL/ha 400 mL/ha 425 mL/ha	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.  tures are above 16°C.  Do not make more than 3 applications per year.  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. Under high insect pressure may only provide suppression.  May provide suppression only under high pressure.  Under high insect pressure may only provide supppresion. Do not make more than 4 applications per year.  Use the higher rate under greater insect pressure. Do not make more than four applications per year. See label for
PETAL FALL/SHI Feeding Caterpillars  Brown Rot Plum Curculio  Black Knot FIRST COVER (1	UCK SPLIT  Use one of the foll  Imidan  Dipel  Exirel  Use one of the fun  Use one of the fun  Use one of the foll  Imidan  Matador  Pounce  Warrior  Silencer  Perm-Up  Up-Cyde  Ambush  Assail  Exirel  Use one of the fun  2 Days After Shuck	owing insect  1B  11  28  gicides lister owing insect  1B  3  3  3  3  4  28  gicides lister Fall)	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. I icides. Treat when 70 WP 120 EC 384 EC 120 EC 120 EC 120 EC EC 2.5 EC 500 EC 70 WP 100 SU	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after poshucks are off and tempera 2.68 kg/ha 104 mL/ha 520 mL/ha 104 mL/ha 104 mL/ha 520 mL/ha 400 mL/ha 400 mL/ha 425 mL/ha	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.  tures are above 16°C.  Do not make more than 3 applications per year.  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. Under high insect pressure may only provide suppression.  May provide suppression only under high pressure.  Under high insect pressure may only provide supppresion. Do not make more than 4 applications per year.  Use the higher rate under greater insect pressure. Do not make more than four applications per year. See label for
PETAL FALL/SHI Feeding Caterpillars  Brown Rot Plum Curculio  Black Knot FIRST COVER (1) Brown Rot	USE ONE OF THE FUND OF THE FUND OF THE FUND OF THE FUND ON THE FUN	owing insect  1B  11  28  gicides lister  owing insect  1B  3  3  3  3  4  28  gicides lister  Fall)  gicides lister	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. I icides. Treat when 70 WP 120 EC 384 EC 120 EC 120 EC 120 EC C 500 EC 70 WP	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after pe shucks are off and tempera 2.68 kg/ha 104 mL/ha 520 mL/ha 104 mL/ha 104 mL/ha 400 mL/ha 425 mL/ha 240 g/ha 1.0-1.5 L/ha	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.  tures are above 16°C.  Do not make more than 3 applications per year.  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. Under high insect pressure may only provide suppression.  May provide suppression only under high pressure.  Under high insect pressure may only provide supppresion. Do not make more than 4 applications per year.  Use the higher rate under greater insect pressure. Do not make more than four applications per year. See label for
PETAL FALL/SHI Feeding Caterpillars  Brown Rot Plum Curculio  Black Knot FIRST COVER (1 Brown Rot Plum Curculio	USE ONE OF THE FUND OF THE FUN	owing insect  1B 11 28 gicides lister owing insect  1B 3 3 3 3 4 28 gicides lister Fall) gicides lister ecticides lister	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. I icides. Treat when 70 WP 120 EC 384 EC 120 EC 120 EC 2.5 EC 500 EC 70 WP 100 SU d under Prebloom.	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after pe shucks are off and tempera 2.68 kg/ha 104 mL/ha 520 mL/ha 104 mL/ha 104 mL/ha 400 mL/ha 425 mL/ha 240 g/ha 1.0-1.5 L/ha	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.  tures are above 16°C.  Do not make more than 3 applications per year.  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. Under high insect pressure may only provide suppression.  May provide suppression only under high pressure.  Under high insect pressure may only provide supppresion. Do not make more than 4 applications per year.  Use the higher rate under greater insect pressure. Do not make more than four applications per year. See label for
PETAL FALL/SHI Feeding Caterpillars  Brown Rot Plum Curculio  Black Knot FIRST COVER (1 Brown Rot Plum Curculio Black Knot SECOND COVER	USE SPLIT  Use one of the foll  Imidan  Dipel  Exirel  Use one of the fun  Use one of the fun  Use one of the foll  Imidan  Matador  Pounce  Warrior  Silencer  Perm-Up  Up-Cyde  Ambush  Assail  Exirel  Use one of the fun	owing insect  1B 11 28 gicides lister owing insect  1B 3 3 3 3 4 28 gicides lister Fall) gicides lister ecticides lister gicides lister t Cover)	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. I icides. Treat when 70 WP 120 EC 384 EC 120 EC 120 EC 2.5 EC 500 EC 70 WP 100 SU d under Prebloom. I under Prebloom. I under Shuck Fall. I under Shuck Fall.	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after pe shucks are off and tempera 2.68 kg/ha 104 mL/ha 520 mL/ha 104 mL/ha 104 mL/ha 400 mL/ha 425 mL/ha 240 g/ha 1.0-1.5 L/ha	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.  tures are above 16°C.  Do not make more than 3 applications per year.  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. Under high insect pressure may only provide suppression.  May provide suppression only under high pressure.  Under high insect pressure may only provide supppresion. Do not make more than 4 applications per year.  Use the higher rate under greater insect pressure. Do not make more than four applications per year. See label for
PETAL FALL/SHI Feeding Caterpillars  Brown Rot Plum Curculio  Black Knot FIRST COVER (1 Brown Rot Plum Curculio Black Knot	UCK SPLIT  Use one of the foll  Imidan  Dipel  Exirel  Use one of the fun  Use one of the fun  Use one of the foll  Imidan  Matador  Pounce  Warrior  Silencer  Perm-Up  Up-Cyde  Ambush  Assail  Exirel  Use one of the fun	owing insect  1B  11  28  gicides lister owing insect  1B  3  3  3  4  28  gicides lister Fall) gicides lister ecticides lister gicides lister t Cover) gicides lister	icides if caterpillar 70 WP 2X DF 100 SU d under Prebloom. I icides. Treat when 70 WP 120 EC 384 EC 120 EC 120 EC 2.5 EC 500 EC 70 WP 100 SU d under Prebloom.	2.68 kg/ha 1.13-1.68 kg/ha 0.5-1.0 L/ha Do not use Sercadis after pe shucks are off and tempera 2.68 kg/ha 104 mL/ha 520 mL/ha 104 mL/ha 520 mL/ha 400 mL/ha 400 mL/ha 425 mL/ha 240 g/ha 1.0-1.5 L/ha	Best results if applications made in evening or on cloudy day.  Do not make more than four applications per year. See label for incompatible products.  etal fall.  tures are above 16°C.  Do not make more than 3 applications per year.  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. Under high insect pressure may only provide suppression.  May provide suppression only under high pressure.  Under high insect pressure may only provide supppresion. Do not make more than 4 applications per year.  Use the higher rate under greater insect pressure. Do not make more than four applications per year. See label for

Disease & Insect	Pro	oducts	Group	Formulation	Rate	Notes
<b>SUMMER SPRAYS</b>	(If Need	ded)				
European Red Mite	lf n	monitoring indica			e of the following miticides	
	► Ac	cramite	UN	50 WS	851 g/ha	Do not make more than 1 application per year.
	► En	nvidor	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.
Aphids	lf n	monitoring indica	tes treatme	nt is required use or	e of the following insectici	des.
	► Clo	oser	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.
	► Tw	winguard	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.
	► Siv	vanto Prime	4D	SN	750 mL/ha	Maximum Sivanto Prime Insecticide allowed per crop season: 2000 mL/ha
	► Ve	ersys	9D	EC	100 mL/ha in 1000L/ha water	DO NOT apply more than 2 applications per year.
	► Mo	ovento	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.
	► Ex	kirel	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 more than four applications per year. See label for incompatible products.
	► Be	eleaf	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.
						Begin applications when populations are low. Reapply every 1-3 weeks as needed. Test a small area of each variety for tolerance before spraying entire orchard. Applying soaps more than three times may cause plant injury. Avoid application in
	► Ko	opa	NC	SC	2% v/v	direct sunlight or to plants under stress. Combining this product with sulfur or applying this product within 3 days of sulfur
Spotted Wing Drosophila	Sp		phila lay eg			
Spotted Wing Drosophila	Sp wii	ootted wing droso	phila lay eg			direct sunlight or to plants under stress. 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. at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact with spotted
Spotted Wing Drosophila	Sp wii ► Ma	ootted wing droso ing drosophila ad	phila lay eg ults.	gs in ripening fruit, a	and larvae may be present 610-855mL/1,000L	direct sunlight or to plants under stress. 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.  at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact with spotted  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.
Spotted Wing Drosophila	Sp wii ► Ma	ootted wing droso ong drosophila ad alathion	phila lay eg ults. 1B	gs in ripening fruit, a	ind larvae may be present	direct sunlight or to plants under stress. 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.  at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact with spotted  Will work more effectively if the temperature is 20° C or more or when temperatures will reach or exceed this minimum. Do
Spotted Wing Drosophila	Sp win	ootted wing droso ong drosophila ad alathion	phila lay eg ults. 1B 1B	gs in ripening fruit, a 85E WP	ind larvae may be present 610-855mL/1,000L 2.68 kg/ha	direct sunlight or to plants under stress. 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.  at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact with spotted  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.  Do not make more than 3 applications per year. Transition to newly amended labels by October 30, 2022.
Spotted Wing Drosophila	Sp win	ootted wing droso ing drosophila adi alathion nidan anitol elegate	phila lay eg ults. 1B 1B 3	gs in ripening fruit, a 85E WP EC	end larvae may be present 610-855mL/1,000L 2.68 kg/ha 779-1559 mL/ha	direct sunlight or to plants under stress. 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.  at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact with spotted  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.  Do not make more than 3 applications per year. Transition to newly amended labels by October 30, 2022.  Do not exceed 1 application per year.
Spotted Wing Drosophila	Sp wii	ootted wing droso ing drosophila adi alathion nidan anitol elegate	phila lay eg ults. 1B 1B 3 5	gs in ripening fruit, a 85E WP EC WDG	610-855mL/1,000L 2.68 kg/ha 779-1559 mL/ha 420 g/ha	direct sunlight or to plants under stress. 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.  at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact with spotted  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.  Do not make more than 3 applications per year. Transition to newly amended labels by October 30, 2022.  Do not exceed 1 application per year.  Do not make more than 3 applications per year.
PREHARVEST	Sp win	cotted wing droso ing drosophila add alathion nidan anitol elegate kirel	phila lay eg ults. 1B 1B 3 5 28	gs in ripening fruit, a  85E  WP  EC  WDG  SC  50 SL	610-855mL/1,000L 2.68 kg/ha 779-1559 mL/ha 420 g/ha 1.0-1.5 L/ha 1.2-1.6 L/ha	direct sunlight or to plants under stress. 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.  at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact with spotted  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.  Do not make more than 3 applications per year. Transition to newly amended labels by October 30, 2022.  Do not exceed 1 application per year.  Do not make more than 3 applications per year.  Begin applications when populations are low. Do not make more than 4 applications per season.  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	Sp win	cotted wing droso ing drosophila add alathion nidan anitol elegate kirel	phila lay eg ults. 1B 1B 3 5 28	gs in ripening fruit, a  85E  WP  EC  WDG  SC  50 SL	610-855mL/1,000L 2.68 kg/ha 779-1559 mL/ha 420 g/ha 1.0-1.5 L/ha	direct sunlight or to plants under stress. 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.  at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact with spotted  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.  Do not make more than 3 applications per year. Transition to newly amended labels by October 30, 2022.  Do not exceed 1 application per year.  Do not make more than 3 applications per year.  Begin applications when populations are low. Do not make more than 4 applications per season.  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 POSTHARVEST - F	Sp win  Ma  Im  Da  Ex  Ha  Us	potted wing droso ing drosophila add alathion nidan anitol elegate kirel arvanta	phila lay eg ults. 1B 1B 3 5 28 28 icides listed	gs in ripening fruit, a  85E  WP  EC  WDG  SC  50 SL	610-855mL/1,000L  2.68 kg/ha  779-1559 mL/ha 420 g/ha 1.0-1.5 L/ha  1.2-1.6 L/ha  Check labels for pre-harve	direct sunlight or to plants under stress. 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.  at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact with spotted  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.  Do not make more than 3 applications per year. Transition to newly amended labels by October 30, 2022.  Do not exceed 1 application per year.  Do not make more than 3 applications per year.  Begin applications when populations are low. Do not make more than 4 applications per season.  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	Sp win  Ma  Im  Da  Ex  Ha  Us	potted wing droso ing drosophila add alathion nidan anitol elegate kirel arvanta	phila lay eg ults. 1B 1B 3 5 28 28 icides listed	gs in ripening fruit, a  85E  WP  EC  WDG  SC  50 SL	610-855mL/1,000L 2.68 kg/ha 779-1559 mL/ha 420 g/ha 1.0-1.5 L/ha 1.2-1.6 L/ha	direct sunlight or to plants under stress. 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.  at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact with spotted 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.  Do not make more than 3 applications per year. Transition to newly amended labels by October 30, 2022.  Do not exceed 1 application per year.  Do not make more than 3 applications per year.  Begin applications when populations are low. Do not make more than 4 applications per season.  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.

# **5. Sweet Cherry Orchard Calendar**

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. Please note: Red text is new to this guide in 2021

Disease & Insect		Products	Group	Formulation	Rate	Notes
DORMANT						
Bacterial Canker		Copper application	may help to	reduce the inciden	ce 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 Oxychloride	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.
	•	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.
PREBLOOM (When Brown Rot (stem rot and blossom blight stages)	Blo	Blossom blight is fa two additional spray	voured by system of the system	e bloom period if we 1 and 17 fungicides	eather remains favorable	arge numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open, followed by for blossom blight. Fungicides in Groups other than M should be used in rotation with different Groups for resistance will protect fruit from infection as bloom starts to occur. Consult labels for information
	<b>•</b>	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.
	•	Maestro	M4	80 WSP	4.00 kg/ha	Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not use 14 days before or after an oil application. Refer to re-entry intervals for specific activities (ranging from 1 to 29 days). If the REI for hand harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals. Do not apply more than one
	•	Supra Captan	M	80 WSP	4.00 kg/ha	application per year.
	•	Bravo ZN	M5	SU	5-9 L/ha	Apply 1-2 sprays from pink through shuck split at 10 days apart. Do not make more than 2 pre-harvest applications per year.
	<b>•</b>	Echo	M5	90 WSP	2.8-5.0 kg/ha	Do not apply within 10 days of an oil application.
	<b>&gt;</b>	Fracture	M		1.5-3.3 L/ha	Suppression only. 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. Increased risk reduction measures expected by Dec 3, 2022.
	<b>•</b>	Funginex	3	190 EC	2.50 L/ha	
	<b>•</b>	Indar	3	75 WSP	140 g/ha	
	<b>•</b>	Tilt	3	250 E	500 mL/ha	
	<b>&gt;</b>	Jade	3	250 E	500 mL/ha	
	•	Mission	3	418 EC	300 mL/ha	
	<b>•</b>	Nova	3	40 WSP	340 g/ha	Apply when first blossoms are opening. Do not make more than 6 applications per year.
	<b>•</b>	Quash	3	WDG	175-245 g/ha	Use high rate under high disease pressure. Do not make more than 1 application per season.
		Cevya	3	SC	0.25 - 0.375 L/ha	Under high pressure and during rapid growth, use the higher rate and shorter spray interval. Do not use more than 1.125 L.ha per year.
	<b>•</b>	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.
		Oci Caulo	,	300 30	JJJ IIIL/IIA	Во постнале тноге в выпо арупиация рег уеаг.

Disease & Insect		Products	Group	Formulation	Rate	Notes
	•	Miravis Duo	7, 3	SC	1.0 L/ha	Do not apply more than 4.0 L/ha per year. Apply a maximum of 2 applications before switching to a non-group 7 and 3 fungicide.
	•	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.
	•	Merivon	7, 11	SU	0.3-0.4 L/ha	Do not make more than 3 applications per year. A nonionic surfactant may be used. Caution should be exercised if tank mixed with products formulated as emulsifiable concentrates (EC).
	•	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.
Nematodes	•	Velum Prime	7	SC	500 mL/ha	Apply specified dosage by chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment. For optimum results, apply to trees previously trained to drip, trickle or micro- sprinkler irrigation. Young trees have the most potential benefit. Soil must be lightly pre-wetted prior to application. Do not apply more than 500 g fluopyram/ha per year, noting that the foliar fungicide Luna Sensation also contains fluopyram.
BLOOM Brown Rot (stem rot and blossom blight stages)		Use one of the fung	icides listed	l under Prebloom. If	wet weather above 16°C p	persists during the bloom period, two applications may be required during this stage of development.
Terminal growth management		Can be used to red	uce termina	l growth. Two week	s are required to slow grow	wth effectively.
	<b>•</b>	Apogee or Kudos	NC		450 g in 1000 L water	Apply at 5 – 20 cm of new shoot growth. If required, make a second application 14 – 21 days after the initial application (a maximum of 2 applications per season are permitted).
Insects		Do not use any in	secticides	during bloom.		
PETAL FALL						
Black Cherry Aphid		Use one of the follo	wing insect	icides if treatment to	or black cherry aphid is rec	quired.  Apply before populations reach threshold. Where possible, rotate with products outside of group 4. Do not make more than two
	•	Closer	4C		100-200 mL/ha	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.
	•	Versys	9D	EC	100 mL/ha in 1000L/ha water	DO NOT apply more than 2 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.
	•	Kopa Insecticidal Soap	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 fung				
Plum Curculio					shucks are off and tempera	
	•	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 when temperatures
	•	Warrior	3	120 EC	104 mL/ha	rise above 20°C because they are much less effective under these conditions. Under high insect pressure may only provide
	<b>&gt;</b>	Silencer	3	120 EC	104 mL/ha	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.

Disease & Insect		Products	Group	Formulation	Rate	Notes					
	•	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 I	Days	After Shuck S	plit)								
Brown Rot		Use one of the fungion									
Plum Curculio		Use one of the insec		ted under Shuck Fa	II.						
SECOND COVER (1	2 Da										
Brown Rot Plum Curculio		Use one of the fungion			Il if now evinesition seems	are found. Some treatments for Cherry Fruit Fly may also control plum curculio.					
Cherry Fruit Fly					oring indicates cherry fruit						
, ,	<b>•</b>	Silencer/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 when temperatures rise above 20°C because they are much less effective under these conditions. Will also control plum curculio.					
		Delegate Entrust	5 5	WG 240 SC	420 g/ha 364 mL/ha	Suppression only. Do not make more than 3 applications per year.  Do not make more than 5 applications per year.					
		GF-120	5	S 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 pe					
	•	Exirel	28	100 SU	1.0-1.5 L/ha	year.  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.					
Spotted Wing Drosophila		Spotted wing drosophila lay eggs in ripening fruit, and larvae may be present at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact with wing drosophila adults.									
	<b>•</b>	Malathion	1B	85E	610-855mL/1,000L	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.					
	<b>&gt;</b>	Mako	3	400 EC	150-175 mL/ha	Allow a minimum 7 days between treatments. Do not apply more than three treatments.					
	•	Danitol	3	EC	779-1559 mL/ha	Do not exceed 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 period or within a single generation of insect pest.					
Fruit Quality		Delay fruit ripening	susceptibility of fruit to rain cracks. The treatment also increases fruit size, firmness, and resistance to postharvest disorders.								
	<b>&gt;</b>	Falgro Tablet	NC		20 tablets in 1000 L water	Apply 21 days before normal harvest. The fruit are straw colored at that stage. Harvest when fruits are at the desired shade of					
	•	ProGibb	NC	40 SG	50 g in 1000 L water	red.					
THIRD COVER											
Brown Rot		Use one of the fungion	cides liste	d under Prebloom.							
Cherry Fruit Fly		Use one of the insec	ticides lis	ted under Second C	over.						
Spotted Wing Drosophila		Use one of the insec	ticides lis	ted under Second C	over.						
<b>PREHARVEST</b>											
Brown Rot		Use one of the fungion	cides liste	d under Prebloom.	Check labels for pre-harve	est intervals (PHI).					
Spotted Wing Drosophila		Use one of the insec			·	· ·					
POSTHARVEST - F			acides IIS	de di luci Occoriu C							
PUSTHARVEST - F	KUI										
Fruit Rots		Poetharyeet trootmo	nt of fruit :	will prolong storage	lite and provide control of	post harvest diseases.					

Disease & Insect	Products	Group	Formulation	Rate	Notes
POSTHARVEST - C	RCHARD				
Leaf Spot		where leaf sp	ot has been a proble	em in the past.	
	► Cueva	M1	1.8 S	1% v/v in 470-940 L water/ha	No product specific comments.
	► Maestro	M4	80 WSP	4.00 kg/ha	Do not use 14 days before or after an oil application. Refer to re-entry intervals for specific activities (ranging from 1 to 29 days). If the REI for hand harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals. Do
	Supra Captan	М	80 WSP	4.00 kg/ha	not apply more than one application per year.
	► Echo	М	90 DF	3.3-5.0 kg/ha	Apply 1–7 days after fruit is removed. Maximum of 1 postharvest application. Bravo ZN not labelled in sweet cherries for postharvest use.
	Pristine	7, 11	WG	0.75-1.0 kg/ha	Will also suppress powdery mildew. Do not make more than 5 applications per year.
	► Merivon	7, 11	SU	0.3-0.4 L/ha	Do not make more than 3 applications per year. A nonionic surfactant may be used. Caution should be exercised if tank mixed with products formulated as emulsifiable concentrates (EC).
	► Flint	11	50 W G	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.
	► Regalia Maxx	P5	LC	0.125-0.5% 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 a tank-mix with other leaf spot fungicides, or high rate in rotation with other leaf spot fungicides.
<b>FALL SPRAY</b>					
Bacterial Canker	Apply when 75°	% of leaves hav	e fallen, and where	bacterial canker is expected	ed to be a problem.
	► Cueva	M1	1.8 S	1% v/v in 470-940 L water/ha	Apply as dormant spray as buds begin to break in the spring. Apply in the fall at 10-80% leaf fall.
	► 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  Oxychloride	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.
	► Parasol Flowals	ole 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

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. Please note: Red text is new to this guide in 2021

Disease & Insect	Products	Group	Formulation	Rate	Notes
DORMANT					
Bacterial Canker	Copper application	n may help t	o reduce the incider	nce 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  Oxychloride	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.
	► Cueva	M1	1.8 S	1% v/v in 470-940 L water/ha	Apply as buds begin to swell in spring repeating at bud burst, continuing weekly as needed, up to six sprays.
	► 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)	Blossom blight is	favoured by	•		arge numbers of mummies (dried infected fruit) are present in the tree. Apply first spray just before blossoms open, followed by for blossom blight. Fungicides in Groups other than M should be used in rotation with different Groups for resistance
	Fracture	М		1.5-3.3 L/ha	Suppression only. 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 Disperss	M1	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 during 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.
	► Maestro	M4	80 WSP	4.00 kg/ha	Use higher rate for greater disease pressure. May cause injury under some circumstances. Do not use 14 days before or after an oil application. Refer to re-entry intervals for specific activities (ranging from 1 to 29 days). If the REI for hand harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals. Do not apply more than one
	Supra Captan	М	80 WSP	4.00 kg/ha	application per year.
	► Bravo ZN	M5	SU	5-9 L/ha	Apply 1-2 sprays from pink through shuck split at 10 days apart. See label for compatability restrictions. DO NOT apply after shuck split to avoid fruit injury.
	► Echo	М5	90 WSP	2.8-5.0 kg/ha	
	► Senator	1	50 SC	700 mL/1,000 L	Apply first application at early bloom. Repeat according to weather conditions. Increased risk reduction measures expected by Dec 3, 2022.
	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.
	► Cevya	3	SC	0.25 - 0.375 L/ha	Under high pressure and during rapid growth, use the higher rate and shorter spray interval. Do not use more than 1.125 L.ha per year.
	► 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.

Disease & Insect		Products	Group	Formulation	Rate	Notes
	<b>•</b>	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.
	<b>•</b>	Miravis Duo	7, 3	SC	1.0 L/ha	Do not apply more than 4.0 L/ha per year. Apply a maximum of 2 applications before switching to a non-group 7 and 3
		Duinting	7. 11	WO	0.75.4.01//	fungicide.
	_	Pristine	.,	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.
	<b>•</b>	Merivon	7, 11	SU	0.3-0.4 L/ha	Do not make more than 3 applications per year. A nonionic surfactant may be used. Caution should be exercised if tank mixed with products formulated as emulsifiable concentrates (EC).
	_	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.
	•				0.125-0.25% v/v in 500-	
	•	Regalia Maxx	P5	LC	1,000 L water/ha	low rate in tank mix with other brown rot fungicides, or high rate in rotation with other brown rot fungicides.
					1,000 E 11 atol/11 a	Apply specified dosage by chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent
						equipment. For optimum results, apply to trees previously trained to drip, trickle or micro- sprinkler irrigation. Young trees
Nematodes		Velum Prime	7	SC	500 mL/ha	have the most potential benefit. Soil must be lightly pre-wetted prior to application. Do not apply more than 500 g fluopyram/ha
						per year, noting that the foliar fungicide Luna Sensation also contains fluopyram.
BLOOM						
Brown Rot (stem rot and blossom blight stages)		Use one of the fung	gicides listed	d under Prebloom.	If wet weather above 16°C μ	persists during the bloom period, two applications may be required during this stage of development.
Terminal growth management		Can be used to red	luce termina	minal growth. Two week	ks are required to slow gro	wth effectively.
	•	Apogee or Kudos	NC		450 g in 1000 L water	Apply at 5 – 20 cm of new shoot growth. If required, make a second application 14 – 21 days after the initial application (a maximum of 2 applications per season are permitted).
Insects		Do not use any in	nsecticides	during bloom.		
PETAL FALL						
Black Knot		Only apply a fungion	cide where th	here is a history of	black knot infections. Black	knot should be pruned out prior to bud break. Burn pruned out black knots.
	•	Bravo ZN	M5	SU	6.0-9.0 L/ha	Apply 1-2 applications from pink through shuck split at 10 days apart. See label for compatibility restrictions. Will also control
	•	Echo	M5	90 WSP	2.8-5.0 kg/ha	brown rot.
	•	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 follo			rebloom.	
Plum Curculio		Use one of the follo				
	•		1B	70 WP	2.68 kg/ha	Do not make more than 5 applications per year. Transition to newly amended labels by October 30, 2022.
	•	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
	<b>&gt;</b>	Warrior	3	120 EC	104 mL/ha	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. Under high insect pressure may only provide
	•	Silencer	3	120 EC	104 mL/ha	suppression.
		Assail	4	70 WP	240 g/ha	Under high insect pressure may only provide supppresion. Do not make more than 4 applications per year.
	▶	Assaii				Use the higher rate under greater insect pressure. Do not make more than four applications per year. See label for
	<b>&gt;</b>	Exirel	28	100 SU	1.0-1.5 L/ha	
FIRST COVER (12.		Exirel	28	100 SU	1.0-1.5 L/ha	incompatible products.
FIRST COVER (12 I		Exirel  After Shuck S	28 Split)			incompatible products.
Brown Rot		Exirel  After Shuck Suse one of the fung	28  Split) gicides listed	d under Shuck Split	if conditions for disease de	
Brown Rot Plum Curculio	Days	Exirel  S After Shuck S Use one of the fung Use one of the inse	28  Split) gicides listedecticides list	d under Shuck Split	if conditions for disease de	incompatible products.
Brown Rot	Days	Exirel  S After Shuck S Use one of the fung Use one of the inservags After First	28 Split) gicides listedecticides list t Cover)	d under Shuck Split ed under Shuck Sp	if conditions for disease de lit.	incompatible products.

List one of the following instellicides when more interest specializations per year. Will also control plum curculio. Transition to newly amended labels by Cockbbr 30, 2022.	Disease & Insect		Products	Group	Formulation	Rate	Notes				
Imitian 18 70 WP 2.68 kg/sia											
Pyrethroids (Group 3) are disruptive to IPM programs leading to mite flare ups and therefore should be avoided if alturative are available. Do not make more than three against leading to mite flare ups and therefore should be avoided if alturative are available. Do not make more than three against leading to mite flare ups and therefore should be avoided if alturative are available. Do not make more than the set effective under these conditions. Will also coming furn under the conditions of year.    February   Section   Percent	oner y	•				•	Do not make more than 5 applications per year. Will also control plum curculio. Transition to newly amended labels by				
Silencer/Malador   3   10 EC   104 mL/ha reavailable. Do not make they are three applications per year. Avoid applying synthetic pyrethrough when temperatures rise advoice. O'C because they are three applications. Will also control plum curroulis.    First   15   240 SC   364 mL/ha   Oracl make more than 5 applications per year. A per year. The proposed plum curroulis. Specifically also per year. A per year. The proposed plum curroulis. Specifically also per year. A per year. The proposed plum curroulis. Specifically also per year. The proposed plum curroulis. Specifically also per year. A per year. The proposed plum curroulis. Specifically also per year in primary livel, and tarvee may be present all the present as fruit inpers. Shortening the interval during rainy periods. Do not make more than 10 applications per year. Shortening the interval during rainy periods. Do not make more than 10 applications per year. Shortening the interval during rainy periods. Do not make more than 10 applications per year. The proposed plum curroulis. Shortening the interval during rainy periods. Do not make more than 10 applications per year. The products rely on confact with spotlad wind described by the products with a population per year.    Possible wind described by the products with a population per year.							·				
First   Firs		•	Silencer/Matador	3	120 EC	104 mL/ha	are available. Do not make more than three applications per year. Avoid applying synthetic pyrethroids when temperatures				
Exirc   2		<b>&gt;</b>	Entrust	5	240 SC	364 mL/ha	Do not make more than 5 applications per year.				
Spotted Wing Drosophila Scription wing drosophila and use of the products with a data or with a spotted wing drosophila and use wing drosophila products with spotted wing drosophila products with spotted wing drosophila products wing drosophila products with spotted wing drosophila products with use of the insecticides listed under Shuck Split floorations of disease development (warm, wet weather) are prevalent.  1		•	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 periods.				
wing drosophila adults.    Mailathion   1B   85E   610-855mU1,000L   Mill work more effectively if the temperature is 20° C or more or when temperatures will reach or exceed this minimum. D not make more than 1 applications per year. Transition to newly amended labels by October 30, 2022.   Danitol   3   EC   779-1558 m.l.ha   Do not acceed 1 point of proceed 1 point of proceding per year.		•					incompatible products. Will also control plum curculio.				
Maidstinon   18   85E   610-855mL/1,000L   not make more than 1 application per year.	Spotted Wing Drosophila				gs in ripening fruit,	and larvae may be preser	nt at harvest. If monitoring indicates treatment is required, use insecticides weekly. These products rely on contact with spotted				
Poleigate 5 WDG 420 gha Do not make more than 3 applications per year.  ► Exiral 28 SC 10-15 L/ha Begin applications are low. Do not make more than 4 applications per season.  ► Harvanta 28 50 SL 12-16 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.  THIRD COVER  Brown Rot Use one of the fungicides listed under Shuck Split if conditions for disease development (warm, wet weather) are prevalent.  Use one of the insecticides listed under Shuck Split Use one of the insecticides listed under Shuck Split.  Use one of the insecticides listed under Shuck Split.  Use one of the insecticides listed under Shuck Split.  Use one of the insecticides listed under Shuck Split.  Use one of the insecticides listed under Shuck Split.  Use one of the insecticides listed under Shuck Split.  Use one of the insecticides listed under Shuck Split. Check labels for pre-harvest intervals (PHI).  Spotted Wing Drosophila  POSTHARVEST  Black Knot  Use one of the insecticides listed under Shuck Split. Check labels for pre-harvest intervals (PHI).  Spotted Wing Drosophila  POSTHARVEST  Black Knot  Only apply a fungicide where there is a history of black knot infections. Black knot should be pruned out prior to bud break. Burn pruned out black knots.  Pravo ZN M5 SU 60-90 L/ha Apply once to foliage 1-7 days after fruit is removed. DO NOT make more than 1 post-harvest application per season.  Leaf Spot  Post Harvest M6 SUSP 4.00 kg/ha On to use 14 days before or after an oil application. Refer to re-entry intervals for specific activities (ranging from 1 to 29 days). If the REI for hand harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals. Do not make more than 3 applications per year.  Pristine 7, 11 WG 0.75-1.0 kg/ha Will also suppress powdery mildew. Do not make more than 5 applications per year.  Portuge of the function of the function of the substitution of the functi		•	Malathion	1B	85E	610-855mL/1,000L	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.				
Pose		•	Imidan	1B	WP	2.68 kg/ha	Do not make more than 4 applications per year. Transition to newly amended labels by October 30, 2022.				
Exirel 28 SC 1.0-1.5 L/ha Begin applications when populations are low. Do not make more than 4 applications per season.  I Harvanta 28 50 SL 1.2-1.6 L/ha or within a single generation of insect pest.  THIRD COVER  Brown Rot Use one of the fungicides listed under Shuck Split If conditions for disease development (warm, wet weather) are prevalent.  Cherry Fruit Fry Use one of the insecticides listed under Shuck Split If conditions for disease development (warm, wet weather) are prevalent.  Cherry Fruit Fry Use one of the insecticides listed under Shuck Split If conditions for disease development (warm, wet weather) are prevalent.  Cherry Fruit Fry Use one of the insecticides listed under Shuck Split If conditions for disease development (warm, wet weather) are prevalent.  Cherry Fruit Fry Use one of the insecticides listed under Shuck Split If conditions for disease development (warm, wet weather) are prevalent.  Use one of the insecticides listed under Shuck Split If conditions for disease development (warm, wet weather) are prevalent.  Use one of the insecticides listed under Shuck Split If conditions for disease development (warm, wet weather) are prevalent.  Use one of the insecticides listed under Shuck Split If conditions for disease development (warm, wet weather) are prevalent.  Use one of the insecticides listed under Shuck Split If conditions for disease development (warm, wet weather) are prevalent.  Use one of the insecticides listed under Shuck Split If conditions for disease development (warm, wet weather) are prevalent.  Use one of the insecticides listed under Shuck Split If conditions for disease development (warm, wet weather) are prevalent.  Use one of the insecticides listed under Shuck Split If conditions for disease development (warm, wet weather) are prevalent.  Use one of the insecticides listed under Shuck Split If conditions for disease development (warm, wet weather) are prevalent.  Use one of the insecticides listed under Shuck Split If conditions for disease development (warm, wet we		•	Danitol	3	EC	779-1559 mL/ha	Do not exceed 1 application per year.				
THIRD COVER Brown Rot Use one of the fungicides listed under Shuck Split if conditions for disease development (warm, wet weather) are prevalent. Use one of the insecticides listed under Shuck Split. Spotted Wing Drosophila PREHARVEST Black Knot Use one of the fungicides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Spotted Wing Drosophila Use one of the insecticides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Spotted Wing Drosophila Use one of the fungicides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Spotted Wing Drosophila Use one of the insecticides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Spotted Wing Drosophila Use one of the insecticides listed under Shuck Split. Check labels for pre-harvest intervals (PHI). Use one of the insecticides listed under Shuck Split. Spotted Wing Drosophila Use one of the fungicides listed under Shuck Split. Check labels for pre-harvest intervals (PHI). Use one of the fungicides listed under Shuck Split. Spotted Wing Drosophila Use one of the fungicides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Spotted Wing Drosophila Use one of the fungicides listed under Shuck Split. Use one of the fungicides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Use one of the insecticides listed under S		•	Delegate	5	WDG	420 g/ha	Do not make more than 3 applications per year.				
THIRD COVER Brown Rot Spotted Wing Drosophila PREHARVEST Brown Rot Use one of the fungicides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Use one of the insecticides listed under Shuck Split. Use one of the insecticides listed under Shuck Split.  Spotted Wing Drosophila PREHARVEST Brown Rot Use one of the fungicides listed under Shuck Split. Use one of the fungicides listed under Shuck Split. Use one of the fungicides listed under Shuck Split. Use one of the fungicides listed under Shuck Split. Use one of the fungicides listed under Shuck Split. Use one of the fungicides listed under Shuck Split. Use one of the fungicides listed under Shuck Split. Use one of the fungicides listed under Shuck Split. Use one of the fungicides listed under Shuck Split. Use one of the fungicides listed under Shuck Split. Use one of the fungicides listed under Second Cover.  POSTHARVEST Black Knot  Only apply a fungicide where there is a history of black knot infections. Black knot should be pruned out prior to bud break. Burn pruned out black knots.  P Bravo ZN  S Bravo ZN  S Bravo ZN  S SU  Only necessary where leaf sport has been a profolem in the past.  P Echo  M5  S U  S 0-9.0 Lha Apply once to foliage 1-7 days after fruit is removed. Use higher rate for larger trees greater than 6 m in height. Do not make more than 1 post harvest application. Refer to re-entry intervals for specific activities (ranging from 1 to 29 days). If the REI for hand harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals. Dr. ont apply more than one application per year.  P Cueva  M1  1.8 S  W/V in 470-940 L Water  Not i		•	Exirel	28	SC	1.0-1.5 L/ha	Begin applications when populations are low. Do not make more than 4 applications per season.				
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Spotted Wing Drosophila  PREI/ARVEST Brown Rot Spotted Wing Drosophila  POSTHARVEST Black Knot  Only apply a fungicide where there is a history of black knot infections. Black knot should be pruned out prior to bud break. Burn pruned out black knots.  Postharvest Black Knot  Only apply a fungicide where there is a history of black knot infections. Black knot should be pruned out prior to bud break. Burn pruned out black knots.  Private Condition of the fungicides listed under Second Cover.  Only apply a fungicide where there is a history of black knot infections. Black knot should be pruned out prior to bud break. Burn pruned out black knots.  Private Condition of the insecticides listed under Second Cover.  Only apply a fungicide where there is a history of black knot infections. Black knot should be pruned out prior to bud break. Burn pruned out black knots.  Apply once to foliage 1-7 days after fruit is removed. Do NOT make more than 1 post-harvest application per season.  Only necessary where led spot has been a problem in the past.  Private Chook M5 90 WSP 3.3-5.0 kg/ha Apply once to foliage 1-7 days after fruit is removed. Use higher rate for larger trees greater than 6 m in height. Do not make more than 1 post harvest application per season.  Do not use 14 days before or after an oil application. Refer to re-entry intervals for specific activities (ranging from 1 to 29 days). If the REI for hand harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals. Drot on tapkly more than one application per year.  Privatine 7, 11 WG 0.75-1.0 kg/ha Will also suppress powdery mildew. Do not make more than 5 applications per year.  Privatine 7, 11 SU 0.3-0.4 L/ha Will also suppress powdery mildew. Do not make more than 5 applications per year.  Do not make more than 5 applications per year.  Do not make more than 5 applications per year.  Do not make more than 5 applications per year.							reveropment (warm, wet weather) are prevalent.				
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Black Knot  Only apply a fungicide where there is a history of black knot infections. Black knot should be pruned out prior to bud break. Burn pruned out black knots.  Paravo ZN Petho Pe	Spotted Wing Drosophila										
Black Knot  Only apply a fungicide where there is a history of black knot infections. Black knot should be pruned out prior to bud break. Burn pruned out black knots.  Paravo ZN Petho Pe	POSTHARVEST										
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Leaf Spot  Only necessary where leaf spot has been a problem in the past.  In Bravo ZN  M5  SU  5.0-7.2 L/ha  Apply once to foliage 1-7 days after fruit is removed. Use higher rate for larger trees greater than 6 m in height. Do not make more than 1 post harvest application per season.  In Maestro  M4  80 WSP  4.00 kg/ha  Do not use 14 days before or after an oil application. Refer to re-entry intervals for specific activities (ranging from 1 to 29 days). If the REI for hand harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals. Do not apply more than one application per year.  Cueva  M1  1.8 S  WSP  4.00 kg/ha  Apply once to foliage 1-7 days after fruit is removed. Use higher rate for larger trees greater than 6 m in height. Do not make more than 1 post harvest application, Refer to re-entry intervals for specific activities (ranging from 1 to 29 days). If the REI for hand harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals. Do not apply more than one application per year.  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.  Do not make more than 3 applications per year. A nonionic surfactant may be used. Caution should be exercised if tank mix with products formulated as emulsifiable concentrates (EC).  Filint  11  50 WG  175-210 g/ha  Do not make more than 5 applications per year.		•	Bravo ZN	M5	SU	6.0-9.0 L/ha	Apply page to foliogo 1.7 days offer fruit in removed DO NOT make more than 1 pert harvest application per second				
<ul> <li>▶ Bravo ZN</li> <li>▶ Echo</li> <li>M5</li> <li>SU</li> <li>5.0-7.2 L/ha</li> <li>Apply once to foliage 1-7 days after fruit is removed. Use higher rate for larger trees greater than 6 m in height. Do not make more than 1 post harvest application per season.</li> <li>▶ Maestro</li> <li>M4</li> <li>80 WSP</li> <li>4.00 kg/ha</li> <li>Do not use 14 days before or after an oil application. Refer to re-entry intervals for specific activities (ranging from 1 to 29 days). If the REI for hand harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals. Do not apply more than one application per year.</li> <li>▶ Cueva</li> <li>M1</li> <li>1.8 S</li> <li>1% v/v in 470-940 L water</li> <li>Pristine</li> <li>7, 11</li> <li>WG</li> <li>0.75-1.0 kg/ha</li> <li>Will also suppress powdery mildew. Do not make more than 5 applications per year.</li> <li>▶ Merivon</li> <li>7, 11</li> <li>SU</li> <li>0.3-0.4 L/ha</li> <li>Do not make more than 3 applications per year.</li> <li>Do not make more than 5 applications per year.</li> <li>Do not make more than 5 applications per year.</li> <li>Do not make more than 5 applications per year.</li> </ul>		•	Echo	M5	90 WSP	3.3-5.0 kg/ha	Apply once to lonage 1-7 days after indicts removed. DO NOT make more than 1 post-harvest application per season.				
<ul> <li>Echo</li> <li>M5</li> <li>90 WSP</li> <li>3.3-5.0 kg/ha</li> <li>Monore than 1 post harvest application per season.</li> <li>Maestro</li> <li>M4</li> <li>80 WSP</li> <li>M80 WSP</li> <li>M80 WSP</li> <li>M90 kg/ha</li> <li>M90 kg/ha</li></ul>	Leaf Spot			nere leaf spo							
<ul> <li>Maestro</li> <li>M4 80 WSP</li> <li>Supra Captan</li> <li>M 80 WSP</li> <li>WSP</li> <li>Loo kg/ha</li> <li>Do not use 14 days before or after an oil application. Refer to re-entry intervals for specific activities (ranging from 1 to 29 days). If the REI for hand harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals. Do not apply more than one application per year.</li> <li>Cueva</li> <li>M1 1.8 S</li> <li>1% v/v in 470-940 L water</li> <li>Pristine</li> <li>7, 11 WG</li> <li>0.75-1.0 kg/ha</li> <li>Will also suppress powdery mildew. Do not make more than 5 applications per year.</li> <li>Do not make more than 3 applications per year. A nonionic surfactant may be used. Caution should be exercised if tank mix with products formulated as emulsifiable concentrates (EC).</li> <li>Flint</li> <li>50 WG</li> <li>175-210 g/ha</li> <li>Do not make more than 5 applications per year.</li> <li>Do not make more than 5 applications per year.</li> </ul>		•	Bravo ZN	M5	SU	5.0-7.2 L/ha	Apply once to foliage 1-7 days after fruit is removed. Use higher rate for larger trees greater than 6 m in height. Do not make				
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<ul> <li>Cueva M1 1.8 S 1% v/v in 470-940 L water Apple as a dormant spray in late fall during a period of dry weather.</li> <li>▶ Pristine 7, 11 WG 0.75-1.0 kg/ha Will also suppress powdery mildew. Do not make more than 5 applications per year.</li> <li>▶ Merivon 7, 11 SU 0.3-0.4 L/ha Do not make more than 3 applications per year. A nonionic surfactant may be used. Caution should be exercised if tank mix with products formulated as emulsifiable concentrates (EC).</li> <li>▶ Flint 11 50 WG 175-210 g/ha Do not make more than 5 applications per year.</li> </ul>		•	Maestro	M4	80 WSP	4.00 kg/ha	days). If the REI for hand harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals. Do				
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► Flint 11 50 WG 175-210 g/ha Do not make more than 5 applications per year.		•	Merivon	7, 11	SU	0.3-0.4 L/ha	Do not make more than 3 applications per year. A nonionic surfactant may be used. Caution should be exercised if tank mixed with products formulated as emulsifiable concentrates (EC).				
3		<b>•</b>	Flint	11	50 WG	175-210 g/ha					
						· ·	th At. No.				

Disease & Insect		Products	Group	Formulation	Rate	Notes
	<b></b>	Syllit	U12	400 FL	2.0 L/1,000 L	Do not make more than 4 applications per year.
	•	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 leaf spot fungicides or high rate in rotation with other leaf spot fungicides.
<b>FALL SPRAY</b>						
Bacterial Canker		Apply where bacteri	al canker is	s expected to be a pro	oblem.	
	•	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 Oxychloride	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.
	•	Cueva	M1	1.8 S	1% v/v in 470-940 L water	Apply as dormant spray as buds begin to break in the spring. Apply in the fall at 10-80% leaf fall.
	<b>&gt;</b>	Parasol Flowable	M1	SU	8.8-13.1 L/ha	Spray at 75% leaf fall.