

**Stage of Development: Year of Establishment and Non-Bearing Trees**

Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
BLW/G	glyphosate (Glyphos) 24359	9	1.6 - 9.0 L	0.65 - 3.64 L	30	U	

**Stage of Development: Post Emergence/Midrow/Under Trees in Establis**

Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
BLW/G	glyphosate (Glyphos) 24359	9	1.6 - 9.0 L	1.65 - 3.64 L	30	U	Non selective, non residual weed control. Rates varies with formulation/product and size of weed, i.e. 1 L/ha controls most annual weeds 8 to 15 cm tall. Check the label of the product purchased. Remove suckers before application. Tank mix to delay selection of resistance.

**Stage of Development: Post Harvest Weed Control**

Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
BLW/G	glyphosate (Glyphos) 24359	9	1.6 - 9.0 L	1.65 - 3.64 L	30	U	Non selective, non residual weed control. Rates varies with formulation/product and size of weed, i.e. 1 L/ha controls most annual weeds 8 to 15 cm tall. Check the label of the product purchased. Remove suckers before application. Tank mix to delay selection of resistance.

**Stage of Development: Dormant**

Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
Rust Mites and Pearleaf Blister Mite	calcium polysulphide (Lime sulphur 30%) 16465	M2	3.67 L/100 L plus 1.25 L dormant oil/100 L	3.67 L/100 L plus 1.25 L dormant oil/100 L	12h	n/a	
			5 L/100 L water + 1.25 L dormant oil/100 L wa	5 L/100 L water + 1.25 L dormant oil/100 L wa	48 h	n/a	
San Jose Scale	mineral oil (Superior 70) 14981	NC	60 L	24 L	12 h	n/a	One application/season. Apply in sufficient water volume to ensure thorough and uniform coverage. Do not use prior to or during freezing temperatures or rain. Apply when buds are just breaking. Do not use after green tip stage.
	mineral oil	NC	90 L	36 L	12 h	n/a	One application/season. Apply in sufficient water volume to

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<sup>3</sup>Pre-harvest interval (Pesticides Chapter). Note: always read and follow the directions on the pesticide label.

<b>Stage of Development: Dormant</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
	(Guardsman) 23370						ensure thorough and uniform coverage. Do not use prior to or during freezing temperatures or rain. Apply when buds are just breaking. Do not use after green tip stage.
	mineral oil (Purespray Green) 27666	NC	20L/1000 L of water	20L/1000 L of water	12 h	0	Apply at green tip to delayed dormant. Do not apply just prior to or during freezing temperatures or rain.
<b>European Red Mite</b>	mineral oil (Purespray Green) 27666	NC	20L/1000 L of water	20L/1000 L of water	12 h	0	Apply at green tip to delayed dormant. Do not apply just prior to or during freezing temperatures or rain.
<b>Ambrosia Beetle</b>	<b>Notes:</b> See description of Cultural control options.						

<b>Stage of Development: Pink</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
<b>Brown Rot</b>	pyraclostrobin + fluxapyroxad (Merivon) 33951	7 + 11	0.3 - 0.4 L	0.12 - 0.16 L	12 h - 12 days	0 days	Limit sprays of Group 11 fungicides to 2 sprays/season. REI's: hand thinning - 12 days, hand harvesting - 1 days, mechanical harvesting and all other activities - 12 hours.
	pydiflumetofen + difenoconazole (Miravis Duo) 33206	7 + 3	1 L	405 ml	12 hours	0 days	Max 2 applications per year, then switch to a non-Group 7 and 3 fungicide. Application interval: 7 - 14 days.
	mefentrifluconazole (Cevya) 33405	3	0.25 - 0.375 L	0.1 - 0.15 L	12 hours	0	Do not make more than 2 sequential applications before alternating to a non-group 3 fungicide registered for the same use. Begin applications prior to disease development. Apply an additional applic. at an interval of 7 - 14 days if disease persists or weather conditions are favourable for disease development.
	fluopyram + trifloxystrobin (Luna Sensation) 32107	7+11	300-400 mL	121-162 mL	12 h	1 day	Use higher rate for high disease pressure. Rotate with fungicides from other groups. Limit use of group 11 fungicides to 2 applications per season.
	metconazole (Quash 30402)	3	175 - 245 g	71 - 99 g	12 h - 9 days	14	Do not apply to 'Stanley' type plums. Use in rotation with fungicides from other groups from pink to petal fall. Maximum 1 application/season. REI of 9 days is for thinning.
	BLAD polypeptide (Fracture) 32139	M12	1.5-3.3 L	0.6-1.3 L	24 h*	0	Suppression only. Use preventatively at pink, full bloom and petal fall. Maximum 3 applications/season.
	fluxapyroxad (Sercadis) 31697	7	333 mL	135 mL	12 h	0	The use of a non-ionic surfactant (0.125%) is recommended. Begin treatment when conditions favour disease development. Apply a second spray 7-14 days up to blossom

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<b>Stage of Development: Pink</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
							if conditions for disease development persist. Maximum amount per season: 1 L/ha (405 mL/acre). Maximum 3 applications per season.

<b>Stage of Development: Blossom</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
<b>Fruittree and European Leafrollers</b>	Bacillus thuringiensis (Bioprotec PLUS) 32425	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See Notes. Spray interval: 7 days under optimal conditions.
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4.0 L	1.6 L	24 h*	0	Will also control other leaf-feeding larvae present. Apply in late afternoon or on a cloudy day when there is no threat of rain within 24 hours. Re-apply if 2 mm or more rainfall within 24 hours of spraying. Spray interval: 7 days under optimal conditions.
	Bacillus thuringiensis (Dipel 2X DF) 26508	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Will also control other leaf-feeding larvae present. See Notes for Bioprotec regarding application timing. Spray interval: 7 days under optimal conditions.
<b>Green Fruitworms</b>	Bacillus thuringiensis (Bioprotec PLUS) 32425	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See Notes. Spray interval: 7 days under optimal conditions.
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4.0 L	1.6 L	24 h*	0	Will also control bud moth. Apply Bt during late afternoon or on a cloudy day when no rain is forecast for the next 24 hours. If there is more than 2 mm rainfall within 24 hour of application, re-apply product. Optimum solution pH for Bt products is 6. Spray interval: 7 days under optimal conditions.
	Bacillus thuringiensis (Dipel 2X DF) 26508	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Will also control bud moth. Apply Bt during late afternoon or on a cloudy day when no rain is forecast for the next 24 hours. If there is more than 2 mm rainfall within 24 hour of application, re-apply product. Optimum solution pH for Bt products is 6.
<b>Obliquebanded and Threelined Leafrollers</b>	Bacillus thuringiensis (Bioprotec PLUS)	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See Notes. Spray interval: 7 days under optimal conditions.

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<b>Stage of Development: Blossom</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
	32425						
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4.0 L	1.6 L	24 h*	0	Will also control bud moth. Apply Bt during late afternoon or on a cloudy day when no rain is forecast for the next 24 hours. If there is more than 2 mm rainfall within 24 hour of application, re-apply product. Optimum solution pH for Bt products is 6. Spray interval: 7 days under optimal conditions.
	Bacillus thuringiensis (Dipel 2X DF) 26508	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Will also control bud moth. Apply Bt during late afternoon or on a cloudy day when no rain is forecast for the next 24 hours. If there is more than 2 mm rainfall within 24 hour of application, re-apply product. Optimum solution pH for Bt products is 6.
<b>Brown Rot</b>	propiconazole (Princeton) 33840	3	300 ml	121 ml	4 hr to 3 days	3 days	Limit sprays of class 3 fungicides (Princeton, Indar, Quash) to 2 per season for resistance management.
	pyraclostrobin + fluxapyroxad (Merivon) 33951	7 + 11	0.3 - 0.4 L	0.12 - 0.16 L	12 h - 12 days	0 days	Limit sprays of Group 11 fungicides to 2 sprays/season. REI's: hand thinning - 12 days, hand harvesting - 1 days, mechanical harvesting and all other activities - 12 hours.
	pydiflumetofen + difenoconazole (Miravis Duo) 33206	7 + 3	1 L	405 ml	12 hours	0 days	Max 2 applications per year, then switch to a non-Group 7 and 3 fungicide. Application interval: 7 - 14 days.
	mefentrifluconazole (Cevya) 33405	3	0.25 - 0.375 L	0.1 - 0.15 L	12 hours	0	Do not make more than 2 sequential applications before alternating to a non-group 3 fungicide registered for the same use. Begin applications prior to disease development. Apply an additional applic. at an interval of 7 - 14 days if disease persists or weather conditions are favourable for disease development.
	fluopyram + trifloxystrobin (Luna Sensation) 32107	7+11	300-400 mL	121-162 mL	12 h	1 day	Use higher rate for high disease pressure. Rotate with fungicides from other groups. Limit use of group 11 fungicides to 2 applications per season.
	Isfetamid (Kenja) 31758	7	913 ml	369 ml	12 hrs	1	Suppression only. Apply with a silicone surfactant. Do not apply more than 2 consecutive Group 7 applications. Maximum of 3 applications per year.
	metconazole (Quash 30402)	3	175 - 245 g	70 - 100 g	12 h - 9 days		Do not apply to 'Stanley' type plums. Use in rotation with fungicides from other groups from pink to petal fall. Maximum 1 application/season. REI of 9 days is for thinning.
	copper octanoate (Cueva Commercial)	M1	Prepare 0.5-2% solution (5-20			4 h	1

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<b>Stage of Development: Blossom</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
	31825		L/1000 L water)				for blossom blight control.
	fluxapyroxad (Sercadis) 31697	7	333 mL	135 mL	12 h	0	The use of a non-ionic surfactant (0.125 % v/v) is recommended.
	triforine (Funginex) 27686	3	2.5 L	1 L	48 h	See notes	Do not apply after blossom.
	boscalid (Cantus) 30141	7	370 g	150 g	12 h	0	Avoid more than 2 consecutive applications.
	fenbuconazole (Indar) 27294	3	140 g	57 g	12 h	1	Limit use of group 3 fungicides (Indar, Nova, Princeton, Quash) to 2 sprays/season. Rotate with fungicides from different groups.
	Bacillus subtilis (Serenade Opti) 31666	44	1.1-1.7 kg	445-688 g	24 h*	0	Suppression only. Begin at early bloom and repeat at 7 day intervals through petal fall.
	thiophanate-methyl (Senator 50SC) 32096	1	2.45 L	1 L	24 h*	1	May harm predatory mites. Maximum 2 applications per season.
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	750g - 1 kg	304 g - 405 g	dry - 10 days	0	Limit sprays of class 11 fungicides to 2 per season for resistance management. 10 days REI for thinning.
	penthiopyrad (Fontelis) 30331	7	1.0-1.75 L	405-709 mL	12 h	0	Do not apply more than 2 times per season. Use high rate for high disease pressure.
	captan (Captan Supra 33641, Maestro 33488)	M4	3.75 - 4.5 kg	1.5 - 1.8 kg	48 h	2	Do not apply in combination with or immediately before or after oil sprays.
			500 mL	200 mL	3 days	3	Limit use of group 3 fungicides (Indar, Topas, Jade, Tilt, Quash) to 2 sprays/season. Rotate with fungicides from different groups.
			370 g	150 g	3 days	2	Maximum 2 applications to blossom stage.
<b>Notes:</b> Brown rot infection begins at bloom. Protect blossoms if weather is wet. Rotate fungicides for resistance management.							

<b>Stage of Development: Petal Fall</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
<b>Obliquebanded and Threelined Leafrollers</b>	cyclaniliprole (Harvanta 50SL) 32889	28	1.2 - 1.6 L	485 - 647 ml	12	7 days	Toxic to bees. Do not make more than 3 applications per crop year. Where possible, rotate the use of Harvanta or other Group 28 insecticides with different groups that control

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<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
							the same pests.
	Bacillus thuringiensis (Bioprotec PLUS) 32425	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See Notes. Spray interval: 7 days under optimal conditions.
	spinosad (Success) 26835	5	182 mL	74 mL	dry	7	Do not apply more than 3 times/season. Spray interval: 7 to 10 days.
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4.0 L	1.6 L	24 h*	0	Will control bud moth. Spray interval: 7 days under optimal conditions.
	cyantraniliprole (Exirel) 30895	28	500-1000 mL	202-404 mL	12 h	3	Apply when larvae are active. Do not apply more than 4 times/season. Do not tank mix with Flint, Sovran, Pristine, copper or captan fungicides. Toxic to bees. Spray interval: 7 to 10 days.
	novaluron (Rimon) 28515	15	1.35-3.35 L	0.55-1.35 L	12 h	14	For obliquebanded leafroller. Use the high rate for higher populations. Do not apply more than 3 times/season. Spray interval: 10 to 14 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	3	Do not apply more than 3 times per season. Spray interval: 7 to 10 days.
	spinetoram (Delegate) 28778	5	210-420 g	85 g -170 g	12 h	3	Use pheromones to monitor adult moth flight, and apply at first egg hatch. Maximum 3 applications per season. Use higher rate under high pest pressure and/or larger larvae. Spray interval: 14 days.
	chlorantraniliprole (Altacor) 28981	28	145-285 g	59-115 g	12 h	1	Monitor larval populations in the spring; apply when larvae are active. Do not apply more than 3 times/season. For rates above 215 g/ha (87 g/ac), do not apply more than twice/season . Spray interval: 7 to 14 days (see label).
<b>Notes:</b> Thorough coverage is important for good control.							
<b>Western Flower Thrips</b>	cyclaniliprole (Harvanta 50SL) 32889	28	1.2 - 1.6 L	485 - 647 ml	12	7 days	Toxic to bees. For suppression only. Do not make more than 3 applications per crop year. Where possible, rotate the use of Harvanta or other Group 28 insecticides with different groups that control the same pests.
<b>Green Fruitworms</b>	Bacillus thuringiensis (Bioprotec PLUS) 32425	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See Notes.

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<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4.0 L	1.6 L	24 h*	0	Will also control bud moth. Apply Bt during late afternoon or on a cloudy day when no rain is forecast for the next 24 hours. If there is more than 2 mm rainfall within 24 hour of application, re-apply product. Optimum solution pH for Bt products is 6. Spray interval: 7 days under optimal conditions.
	Bacillus thuringiensis (Dipel 2X DF) 26508	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Will also control bud moth. Apply Bt during late afternoon or on a cloudy day when no rain is forecast for the next 24 hours. If there is more than 2 mm rainfall within 24 hour of application, re-apply product. Optimum solution pH for Bt products is 6. Spray interval: 7 days under optimal conditions.
<b>Fruittree and European Leafrollers</b>	Bacillus thuringiensis (Bioprotec PLUS) 32425	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See Notes. Spray interval: 7 days under optimal conditions.
	spinosad (Success) 26835	5	182 mL	74 mL	dry	7	Do not apply more than 3 times/season. Spray interval: 7 to 10 days.
	Bacillus thuringiensis (Dipel 2X DF) 26508	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Will also control bud moth. Spray interval: 7 days under optimal conditions.
	cyantraniliprole (Exirel) 30895	28	500 - 1000 mL	202 - 404 mL	12 h	3	Apply when larvae are active. Do not apply more than 4 times/season. Do not tank mix with Flint, Pristine, Cabrio, copper or captan fungicides. Toxic to bees. Spray interval: 7 to 10 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	3	Do not apply more than 3 times/season. Spray interval: 7 to 10 days.
<b>Eyespotted Bud Moth</b>	spinosad (Success) 26835	5	182 mL	74 mL	dry	7	Do not apply more than 3 times/season.
	cyantraniliprole (Exirel) 30895	28	500-1000 mL	202-404 mL	12 h	3	Apply when larvae are active. Do not apply more than 4 times/season. Do not tank mix with Flint, Sovran, Pristine, copper or captan fungicides. Toxic to bees. Spray interval: 7 to 10 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	3	Do not apply more than 3 times per season. Spray interval: 7 to 10 days.
<b>Brown Rot</b>	propiconazole (Princeton) 33840	3	300 ml	121 ml	4 hr to 3 days	3 days	Limit sprays of class 3 fungicides (Princeton, Indar, Quash) to 2 per season for resistance management.

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	pyraclostrobin + fluxapyroxad (Merivon) 33951	7 + 11	0.3 - 0.4 L	0.12 - 0.16 L	12 h - 12 days	0 days	Limit sprays of Group 11 fungicides to 2 sprays/season. REI's: hand thinning - 12 days, hand harvesting - 1 days, mechanical harvesting and all other activities - 12 hours.
	pydiflumetofen + difenoconazole (Miravis Duo) 33206	7 + 3	1 L	405 ml	12 hours	0 days	Max 2 applications per year, then switch to a non-Group 7 and 3 fungicide. Application interval: 7 - 14 days.
	mefentrifluconazole (Cevya) 33405	3	0.25 - 0.375 L	0.1 - 0.15 L	12 hours	0	Do not make more than 2 sequential applications before alternating to a non-group 3 fungicide registered for the same use. Begin applications prior to disease development. Apply an additional applic. at an interval of 7 - 14 days if disease persists or weather conditions are favourable for disease development.
	fluopyram + trifloxystrobin (Luna Sensation) 32107	7+11	300-400 mL	121-162 mL	12 h	1 day	Use higher rate for high disease pressure. Rotate with fungicides from other groups. Limit use of group 11 fungicides to 2 applications per season.
	Isofetamid (Kenja) 31758	7	913 ml	369 ml	12 hrs	1	Suppression only. Apply with a silicone surfactant. Do not apply more than 2 consecutive Group 7 applications. Maximum of 3 applications per year.
	metconazole (Quash 30402)	3	175 - 245 g	71 - 99 g	12 h - 9 days	14	Do not apply to 'Stanley' type plums. Use in rotation with fungicides from other groups from pink to petal fall. Maximum 1 application/season. REI of 9 days is for thinning.
	boscalid (Cantus) 30141	7	370 g	150 g	12 h	0	Avoid more than 2 consecutive applications.
	fenbuconazole (Indar) 27294	3	140 g	57 g	12 h	1	Limit use of group 3 fungicides (Indar, Princeton, Nova, Quash) to 2 sprays/season. Rotate with fungicides from different groups.
	Bacillus subtilis (Serenade Opti) 31666	44	1.1-1.7 kg	445-688 g	24 h*	0	Suppression only.
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	750g - 1 kg	304 g - 405 g	dry - 10 days	0	Limit sprays of class 11 fungicides to 2 per season for resistance management. 10 days REI for thinning.
	penthiopyrad (Fontelis) 30331	7	1.0-1.75 L	405-709 mL	12 h	0	Do not apply more than 2 times per season. Use high rate for high disease pressure.
	captan (Captan Supra 33641, Maestro 33488)	M4	3.75 - 4.5 kg	1.5 - 1.8 kg	48 h	2	
			500 mL	200 mL	3	3	Limit use of group 3 fungicides (Indar, Topas, Jade, Tilt,

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
					days		Quash) to 2 sprays/season. Rotate with fungicides from different groups.
<b>Notes:</b> Brown rot infection begins at bloom. Protect blossoms if weather is wet. Rotate fungicides for resistance management.							

Stage of Development: Petal Fall to Husk Fall							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
Peach Tree Borer	pheromone (Isomate-P) 27141	NC	250-625	100-250	n/a	0	Apply before moth emergence.

Stage of Development: Husk Fall							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
Western Flower Thrips	cyclaniliprole (Harvanta 50SL) 32889	28	1.2 - 1.6 L	485 - 647 ml	12	7 days	Toxic to bees. For suppression only. Do not make more than 3 applications per crop year. Where possible, rotate the use of Harvanta or other Group 28 insecticides with different groups that control the same pests.

Stage of Development: Summer							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
European Red Mite	fenazaquin (Magister SC) 34544	21 + 39	1.75 - 2.34 L	0.7 - 0.95 L	12 h - 17 days	10 days	Toxic to bees. Avoid application during bloom. Maximum number of applications: 1
	cyflumetofen (Nealta) 31284	25	1 L	405 mL	12 h	7	For control of all life stages. Do not apply more than 2 times/season. Not for rust mite control. Spray interval: 14 days.
	spirodiclofen (Envidor) 28051	23	750 mL	300 mL	12 h	7	Will also control rust mites. Use Envidor only once per season. Spray interval: minimum 7 days.
	mineral oil (Purespray Green) 27666	NC	10 L	4 L	12 h	0	For suppression only. Begin applications when mites first appear, allow 10-14 days between applications. Do not apply less than 1000 L water/ha (1% solution). Do not use within 14 days before or after captan. Post harvest sprays may be made to reduce over-wintering pressure.
	bifenazate (Acramite) 27925	20D	851 g	344 g	12 h	7	Do not apply more than once/season. Will not control rust mites. Residual control: 21 days.
McDaniel,	fenazaquin	21 +	1.75 - 2.34 L	0.7 - 0.95 L	12 h -	10 days	Toxic to bees. Avoid application during bloom. Maximum

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<sup>3</sup>Pre-harvest interval (Pesticides Chapter). Note: always read and follow the directions on the pesticide label.

<b>Stage of Development: Summer</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
<b>Twospotted Spider Mites</b>	(Magister SC) 34544	39			17 days		number of applications: 1
	Mineral oil (Suffoil-X) 33099	NC	12.9 L/1000 L of water	12.9 L/1000 L of water	12 hours	0	Test for crop tolerance before widespread use. Apply every 10 - 14 days, depending on level of pest pressure. Do not apply to trees lacking moisture. Do not apply more than 8 applications per year.
	cyflumetofen (Nealta) 31284	25	1 L	405 mL	12 h	7	For control of all life stages. Do not apply more than 2 times/season. Not for rust mite control. Spray interval: 14 days.
	spirodiclofen (Envidor) 28051	23	750 mL	300 mL	12 h	7	Will also control rust mites. Use Envidor only once per season. Spray interval: minimum 7 days.
	bifenazate (Acramite) 27925	20D	851 g	344 g	12 h	7	Do not apply more than once/season. Will not control rust mites. Residual control: 21 days.
<b>Green Peach Aphid and Black Peach Aphid</b>	tetraniliprole (Vayego 200 SC) 33711	28	150 ml	61 ml	12 hours	5 days	Suppression only. Max 3 applications per year. Toxic to bees. Do not apply during pre-bloom or blooming period. Apply post-bloom only.
	Mineral oil (Suffoil-X) 33099	NC	12.9 L/1000 L of water	12.9 L/1000 L of water	12 hours	0	Test for crop tolerance before widespread use. Apply every 10 - 14 days, depending on level of pest pressure. Do not apply to trees lacking moisture. Do not apply more than 8 applications per year.
	flupyradifurone (Sivanto Prime) 31452	4D	500 - 750 mL	202 - 304 mL	12 h	14	Minimum interval between applications: 10 days. Do not apply more than 2000 mL/ha per season.
	cyantraniliprole (Exirel) 30895	28	750-1500 mL	304-607 mL	12 h	3	Do not apply more than 4 times/season. Do not tank mix with Flint, Sovran, Pristine, copper or captan fungicides. Toxic to bees. Spray interval: 7 to 10 days.
	flonicamid (Beleaf) 29796	29	200 g	81 g	12 h-3 days	14	3 days REI for thinning. Allow a minimum of 7 days between applications.
	sulfoxaflo (Closer) 30826	4C	100-200 mL	40-80 mL	12 h	7	Do not apply more than 2 times/season.
	spirotetramat (Movento 240 SC) 28953	23	365 -435 mL	148 -176 mL	12 h	7	Apply Movento with an adjuvant such as Agral 90. Do not exceed 1120 mL Movento/ha (453 mL/ac)/season. Toxic to bees. Spray interval: minimum 14 days.
	mineral oil (Purespray Green) 27666	NC	10 L	4 L	12 h	0	Prevents aphids from feeding. Begin applications when aphids first appear, allow 10-14 days between applications. Do not apply less than 1000 L water/ha (1% solution). Do not use within 14 days before or after captan. Apply post-harvest to reduce over-wintering pressure.

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<sup>3</sup>Pre-harvest interval (Pesticides Chapter). Note: always read and follow the directions on the pesticide label.

<b>Stage of Development: Summer</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
<b>Notes:</b> Do not apply more than twice/season. Spray interval: 10 to 14 days. Clutch will no longer be registered for use by growers as of April 11, 2021.							
<b>Obliquebanded and Threelined Leafrollers</b>	tetraniliprole (Vayego 200 SC) 33711	28	225 ml	91 ml	12 hours	5 days	Max 3 applications per year. Toxic to bees. Do not apply during pre-bloom or blooming period. Apply post-bloom only.
	cyclaniliprole (Harvanta 50SL) 32889	28	1.2 - 1.6 L	485 - 647 ml	12	7 days	Toxic to bees. Do not make more than 3 applications per crop year. Where possible, rotate the use of Harvanta or other Group 28 insecticides with different groups that control the same pests.
	Bacillus thuringiensis (Bioprotec PLUS) 32425	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See Notes. Spray interval: 7 days under optimal conditions.
	spinosad (Success) 26835	5	182 mL	74 mL	dry	3	Do not apply more than 3 times/season. Spray interval: 7 to 10 days.
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4.0 L	1.6 L	24 h*	0	Will also control other leaf-feeding larvae present. See Notes below. Spray interval: 7 days under optimal conditions.
	cyantraniliprole (Exirel) 30895	28	500-1000 mL	202-404 mL	12 h	3	Monitor adult moth flight and apply at first egg hatch. Do not tank mix with Flint, Pristine, Sovran, copper or captan fungicides. Toxic to bees. Spray interval: 7 to 10 days.
	novaluron (Rimon) 28515	15	1.35-3.35 L	0.55-1.35 L	12 h	14	For obliquebanded leafroller only. Use high rate for higher populations. Do not apply more than 3 times/season. Spray interval: 10 to 14 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	3	Do not apply more than 3 times/season. Spray interval: 7 to 10 days.
	spinetoram (Delegate) 28778	5	210-420 g	85 g -170 g	12 h	3	Do not apply more than 3 times per season. Use the higher rate under high pest pressure and/or larger larvae. Spray interval: 14 days.
	chlorantraniliprole (Altacor) 28981	28	145-285 g	59-115 g	12 h	7	Monitor adult moth flight and apply at first appearance of larvae. Do not apply more than 3 times/season. For rates above 215 g/ha (87 g/ac), do not apply more than 2 times/season. Spray interval: 7 to 14 days (see label).
<b>Notes:</b> All products are stomach poisons. Thorough and uniform spray coverage is important for satisfactory control.							
<b>Spotted Wing Drosophila</b>	fenpropathrin (Danitol) 33817	3	779 - 1559 ml	315 - 631 ml	24 h - 23 days		Toxic to bees. Maximum 1 application per year. REI/PHI's: 23 days (thinning), 16 days (hand harvesting), 7 days (scouting, hand pruning), 3 days (mechanical harvesting), 24 hours (all other activities)

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<sup>3</sup>Pre-harvest interval (Pesticides Chapter). Note: always read and follow the directions on the pesticide label.

<b>Stage of Development: Summer</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
	cyclaniliprole (Harvanta 50SL) 32889	28	1.2 - 1.6 L	485 - 647 ml	12	7 days	Toxic to bees. Do not make more than 3 applications per crop year. Where possible, rotate the use of Harvanta or other Group 28 insecticides with different groups that control the same pests.
	spinosad (Success) 26835	5	182 mL	74 mL	4 h	3	Begin applications when fruit begin to ripen. Will control only adult flies, NOT larvae in the fruit. Allow 7 to 10 days between applications. Do not exceed 182 mL product/ha per application (74 mL/acre); maximum 3 applications per year.
	cyantraniliprole (Exirel) 30895	28	1000-1500 mL	404-607 mL	12 h	3	Begin applications when fruit begin to ripen. Re-apply at 7 day intervals. Do not apply more than 4 times/season. Will control only adult flies, NOT larvae inside fruit. Do not tank mix with Flint, Pristine, Sovran, copper or captan fungicides. Toxic to bees. Spray interval: 7 to 10 days.
	malathion (Malathion 85E) 8372	1B	610-855 mL/1000 L water	246-346 ml/1000 L water	1 - 3 days	3	May be effective for 5 days. Works better at temperatures above 20°C. Only 1 application per year.
	phosmet (Imidan 70% WP) 29064	1B	2.68 kg	1.08 kg	12 h -4 days	17	Toxic to bees. Do not apply more than 1 application per season. All thinning activities must be completed prior to application.
	spinosad (Entrust) 30382	5	364 mL	147 mL	4 h	3	Begin applications when fruit begin to ripen. Will control only adult flies, NOT larvae in the fruit. Allow 7 to 10 days between applications. Do not exceed 364 mL product/ha per application (147 mL/acre); maximum 3 applications per year.
	spinetoram (Delegate) 28778	5	420 g	170 g	12 h	3	Maximum of 3 applications per season with minimum re-treatment intervals of 7 days. Product kills adults only, not larvae in fruit. Start treatments when adults first detected in trees.
<b>Notes:</b> Do not rely on Admire, Assail or GF-120 for control of SWD.							
<b>Eyespotted Bud Moth</b>	spinosad (Success) 26835	5	182 mL	74 mL	dry	3	Do not apply more than 3 times/season. Spray interval: 7 to 10 days.
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4.0 L	1.6 L	24 h*	0	Apply Bt during late afternoon or on a cloudy day when no rain is forecast for the next 24 hours. Optimum solution pH for Bt products is 6. Spray interval: 7 days under optimal conditions.
	Bacillus thuringiensis (Dipel 2X DF) 26508	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Apply Bt during late afternoon or on a cloudy day when no rain is forecast for the next 24 hours. Optimum solution pH for Bt products is 6. Spray interval: 7 days under optimal conditions.

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<sup>3</sup>Pre-harvest interval (Pesticides Chapter). Note: always read and follow the directions on the pesticide label.

<b>Stage of Development: Summer</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
	cyantraniliprole (Exirel) 30895	28	500-1000 mL	202-404 mL	12 h	3	Do not apply more than 4 times/season. Do not tank mix with Flint, Pristine, Sovran, copper or captan fungicides. Toxic to bees. Spray interval: 7 to 10 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	3	Do not apply more than 3 times per season. Spray interval: 7 to 10 days.
<b>San Jose Scale</b>	sulfoxaflor (Closer) 30826	4C	200-400 mL	80-160 mL	12 h	7	Do not apply more than 2 times per season. Spray interval: minimum 7 days.
<b>Mealybugs</b>	spirotetramat (Movento 240 SC) 28953	23	365-585 mL	148-237 mL	12 h		Apply Movento with an adjuvant such as Agral 90. Do not exceed 1120 mL Movento/ha (453 mL/ac)/season. Toxic to bees. Spray interval: minimum 14 days.
<b>Peach Tree Borer</b>	novaluron (Rimon) 28515	15	1.4 L/ 1000 L of water	1.4 L/ 1000 L of water	12 h	14	Begin spray application 7-10 days after first trap catch. Spray tree trunk and scaffold limbs with a hand gun sprayer. Spray interval: 21 days. May be harmful to predatory mites.
	spinetoram (Delegate) 28778	5	420 g	170	12	3	For suppression only: Cover the tree trunk and scaffold limbs, particularly the graft union and any pruning cuts. Thorough coverage is essential. Target the 1st instar larvae stage, beginning 7 to 10 days after first adult trap catch.
<b>Shothole Borer</b>	<b>Notes:</b> See description of shothole borer for cultural control options.						
<b>Stink Bugs</b>	<b>Notes:</b> There are no registered products. Contact field advisor. Products registered for brown marmorated stink bugs (Actara and Clutch) will provide some control. Check product labels.						
<b>Brown Rot</b>	pyraclostrobin + fluxapyroxad (Merivon) 33951	7 + 11	0.3 - 0.4 L	0.12 - 0.16 L	12 h - 12 days	0 days	Limit sprays of Group 11 fungicides to 2 sprays/season. REI's: hand thinning - 12 days, hand harvesting - 1 days, mechanical harvesting and all other activities - 12 hours.
	pydiflumetofen + difenoconazole (Miravis Duo) 33206	7 + 3	1 L	405 ml	12 hours	0 days	Max 2 applications per year, then switch to a non-Group 7 and 3 fungicide. Application interval: 7 - 14 days.
	fluopyram + trifloxystrobin (Luna Sensation) 32107	7+11	300-400 mL	121-162 mL	12 h	1 day	Use higher rate for high disease pressure. Rotate with fungicides from other groups. Limit use of group 11 fungicides to 2 applications per season.
	metconazole (Quash 30402)	3	175 - 280 g	71 - 113 g	12 h - 9 days	14	For fruit brown rot apply 14-21 days before harvest. Maximum 1 application/season. REI of 9 days is for thinning.
	boscalid (Cantus) 30141	7	370 g	150 g	12 h	0	Avoid more than 2 consecutive applications.
	fenbuconazole (Indar) 27294	3	140 g	57 g	12 h	1	Limit use of group 3 fungicides (Indar, Princeton, Quash) to 2 sprays/season. Rotate with fungicides from different groups.
	boscalid + pyraclostrobin	7 + 11	750g - 1 kg	304 g - 405 g	dry - 10	0	Limit sprays of class 11 fungicides to 2/season for resistance management.

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<sup>3</sup>Pre-harvest interval (Pesticides Chapter). Note: always read and follow the directions on the pesticide label.

<b>Stage of Development: Summer</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
	(Pristine WG) 27985				days		
	penthiopyrad (Fontelis) 30331	7	1.0-1.75 L	405-709 mL	12 h	0	Do not apply more than 2 times per season. Use high rate for high disease pressure.
	captan (Captan Supra 33641, Maestro 33488)	M4	3.75 - 4.5 kg	1.5 - 1.8 kg	48 h	2	
			500 mL	200 mL	3 days	3	Limit use of group 3 fungicides (Indar, Topas, Jade, Tilt, Quash) to 2 sprays/season. Rotate with fungicides from different groups.
			740 g	300 g	3 days	2	Do not apply more than twice to fruit.
<b>Notes:</b> Fruit becomes increasingly susceptible to brown rot as it ripens. Rotate fungicides for resistance management. Follow pre-harvest intervals.							

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<sup>3</sup>Pre-harvest interval (Pesticides Chapter). Note: always read and follow the directions on the pesticide label.