

Stage of Development: Dormant							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
San Jose Scale	mineral oil (Double Down Spray Oil) 33589	NC	20 L per 1000 L water		12 h		Do not apply just prior to or during freezing temperatures or rain.
	mineral oil (Superior 70) 14981	NC	60 L	24.3 L	12 h	n/a	Do not use prior to or during freezing temperatures or rain. Do not use after green tip stage. Apply sufficient volume to ensure uniform coverage of trees.
	mineral oil (Guardsman) 23370	NC	90 L	36 L	12 h	n/a	Apply at bud-swell stage.
	mineral oil (Purespray Green) 27666	NC	20L/1000 L of water	20L/1000 L of water	12 h	0	Apply at dormant to pre-bloom. Do not apply just prior to or during freezing temperatures or rain.
European Red Mite	mineral oil (Double Down Spray Oil) 33589	NC	20 L per 1000 L water		12 h		Do not apply just prior to or during freezing temperatures or rain.
	mineral oil (Superior 70) 14981	NC	20 L/1000 L	20 L/1000 L			Apply dormant to pre-bloom. Do not apply just prior to or during freezing temperatures or rain.
	mineral oil (Purespray Green) 27666	NC	20L/1000 L of water	20L/1000 L of water	12 h	0	Apply at dormant to pre-bloom. Do not apply prior to or during freezing temperatures or rain.
Peach Twig Borer	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.
	novaluron (Rimon) 28515	15	1.35-3.35 L	0.55-1.35 L	12 h	14	Apply Rimon with 38-56 L oil/ha (15-22 L/ac) at dormant/delayed dormant. Use high rates if orchard has history of heavy populations. Spray interval: 10 to 14 days.
Lecanium scale	mineral oil (Guardsman) 23370	NC	90 L	36 L	12 h	n/a	Apply at bud swell stage. Use sufficient water to ensure thorough and uniform coverage of the canopy.
	Notes: Use sufficient water volume to ensure thorough and uniform coverage of the tree limbs and trunks. Leave lower nozzles on when spraying high density trees in order to control scales on the trunks.						
Peach Leaf Curl	chlorothalonil (Echo) 33479	M5	3.5 - 4.9 L	1.4 - 2.0 L	12 hr - 11 days	60	Use higher rate for trees over 6 m in height. Make one application per year as a fall dormant spray at 75-100% leaf drop or in early spring before bud swell/bud break. Do not make more than 3 applications per year including a dormant spray.
	chlorothalonil (Bravo)	M5	5 - 7 L	2.0 - 2.83 L		60 days	Do not apply Bravo after shuck split. Use higher rate for trees

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Stage of Development: Dormant							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
	ZNC) 33515						over 6 m in height. Refer to label for specific REI's for thinning activities.
	Copper hydroxide (Parasol) 25901	M1	4.5 - 6.7 L	1.8 - 2.7 L	48 hrs	2 days	Use the higher rate when rainfall is very heavy and disease pressure is high.
	dodine (Syllit 400 FL) 28351	U12	1.8 - 3.5 L	0.728 - 1.416 L	48 hrs	60 days	Maximum 2 applications per year.
	copper oxychloride (Guardsman Copper Oxychloride 13245)	M1	2 kg	800 g	48 h	n/a	Apply at 75-100% leaf drop during dry weather. A spring dormant spray may also be required.
	calcium polysulphide (Lime sulphur 30%) 16465	M2	7.3 L/100 L water	7.3 L/100 L water	48 h	1	Apply early, before oil sprays & before bud swell. See also peach leaf curl under fall treatment.
	copper oxychloride (Copper Spray 19146)	M1	2 kg	800 g	48 h	n/a	Apply at 75-100% leaf drop during dry weather. A spring dormant spray may also be required.
Coryneum blight	Notes: Prune out cankers on twigs and small branches.						

Stage of Development: Pink							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (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.
	clofentezine (Apollo) 21035	10	300-600 mL	120-240 mL	48 h	1	Apply when mites first appear. Do not apply more than once/season. Residual control: 45 days.
	bifenazate (Acramite) 27925	20D	851 g	344 g	12 h	7	Apply when mites first appear. Do not apply more than once/season. Residual control: 21 days.
McDaniel, Twospotted Spider Mites	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.
	clofentezine (Apollo)	10	300 - 600 mL	120 - 240 g	12 h	21	Apply when mites first appear. Do not apply more than

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Stage of Development: Pink							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
	21035						once/season. Residual control: 45 days.
	bifenazate (Acramite) 27925	20D	851 g	344 g	12 h	7	Apply when mites first appear. Do not apply more than once/season. Residual control: 21 days.
Peach Twig Borer	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.
	deltamethrin (Decis) 22478	3	200 mL	80 mL	48 h	1	Decis is harmful to beneficial insects and mites. Residual control: 10 days/
	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.
Brown Rot	Bacillus amyloliquefaciens strain MBI 600	BM02	0.9 kg	0.36 kg	4 h	0	Begin applications prior to infection and continue on 7 to 10 day intervals if conditions are favourable for disease development.
	pyraclostrobin + fluxapyroxad (Merivon) 33951	7 + 11	0.3 - 0.4 L	0.12 - 0.16 L	12 h - 12 days	1 day (hand harvest)	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.
	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.
	Polyoxin D Zinc Salt (Diplomat 5SC) 32918	19	463 - 926 ml	187 - 375 ml	4 h	0 days	Application interval: 7 to 14 days as needed. Do not apply more than 150 g of active ingredients/ha/year.
	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	182 - 292 ml	74 - 118 ml	12 h - 9 days	14	Use in rotation with fungicides from other groups from pink to petal fall. Maximum 1 application/season. REI of 9 days is for thinning.
	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 if conditions for disease development persist. Maximum amount per season: 1 L/ha (405 mL/acre). Maximum 3

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Stage of Development: Pink

Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
							applications per season.

Stage of Development: Blossom

Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
Brown Rot	Bacillus amyloliquefaciens strain MBI 600	BM02	0.9 kg	0.36 kg	4 h	0	Begin applications prior to infection and continue on 7 to 10 day intervals if conditions are favourable for disease development.
	captan (Captan L) 35343	M04	6.64 L	2.68 L	1 - 29 days	15 days	Use under conditions of low to moderate disease pressure. Apply preventatively when conditions are favourable for disease development.
	chlorothalonil (Echo) 33479	M5	3.5 - 6.3 L	1.4 - 2.5 L	12 hr - 11 days	60	Do not apply Echo after shuck split. Use higher rate for trees over 6 m in height. Refer to label for specific REI's for thinning activities. Do not apply this product within 10 days of an oil application as it may cause burning to flowers and leaf tissue.
	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	1 day (hand harvest)	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.
	chlorothalonil (Bravo ZNC) 33515	M5	5 - 7 L	2.0 - 2.83 L		60 days	Do not apply Bravo after shuck split. Use higher rate for trees over 6 m in height. Refer to label for specific REI's for thinning activities.
	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.
	Polyoxin D Zinc Salt (Diplomat 5SC) 32918	19	463 - 926 ml	187 - 375 ml	4 h	0 days	Application interval: 7 to 14 days as needed. Do not apply more than 150 g of active ingredients/ha/year.

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Stage of Development: Blossom							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
	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	182 - 292 ml	74 - 118 ml	12 h - 9 days	14	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) 31825	M1	Prepare 0.5-2% solution (5-20 L/1000 L water)		4 h	1	Apply 470-940 L of mixture/ha (190-380 L/acre) at delayed dormant (bud swell), popcorn, full bloom and petal fall stages 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	1.0 L	48 h	Bloom only	Do not apply after blossom.
	fenhexamid (Elevate) 25900	17	1.7 kg	690 g	4 h	1	Avoid more than 2 consecutive applications.
	boscalid (Cantus) 30141	7	370 g	150 g	12 h	0	Avoid more than 2 consecutive applications.
	Bacillus subtilis (Serenade Opti) 31666	44	1.1-1.7 kg	445-688 g	24h*	0	Suppression only. Begin at early bloom and repeat at 7 day intervals through petal fall.
	myclobutanil (Nova 40WP) 22399	3	340 g	140 g	12 h - 12 days	1	Limit use of group 3 fungicides (Indar, Nova, Topas, Jade, Tilt, Quash) to 2 sprays/season. Rotate with fungicides from other groups for resistance management. 12 days REI for thinning.
	thiophanate-methyl (Senator 50SC) 32096	1	2.45 L	1 L	24 h*	1	Maximum 2 applications/season
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	750 g - 1 kg	304 g - 405 g	dry - 10 days	0	Also suppresses powdery mildew. 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 captan in combination with or immediately before or closely following oil sprays.

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Stage of Development: Blossom							
Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
			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.
Notes: May be tank mixed with Nova (340g/ha) or Rovral (840g/ha)							
Notes: Use higher rate for trees over 6 m tall, or if weather is warm and wet. Refer to label for specific REI's for thinning activities.							
Notes: Brown rot infection begins at bloom. Protect blossoms if weather is wet. Rotate fungicides for resistance management.							

Stage of Development: Petal Fall							
Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
Obliquebanded and Threelined Leafrollers	Chlorantraniliprole (Altacor MaX) 34654	28	73 - 143 g	30 - 58 g	12 h	5	Apply when larvae become active. Do not apply more than 3 times/ season. Spray interval: 10 to 14 days (see label).
	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	14	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 help control any exposed peach twig larvae present. 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 help control any exposed peach twig larvae present. 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.
	novaluron (Rimon) 28515	15	1.35-3.35 L	0.55-1.35 L	12 h	14	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	1	Do not apply more than 3 times per season. Spray interval: 7 to 10 days.

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Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
	spinetoram (Delegate) 28778	5	210-420 g	85-170 g	12 h	1	Apply at first egg hatch. Do not apply more than 3 times a 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, or twice per season for rates above 215 g/ha (87 g/ac). Spray interval: 7 to 14 days (see label).
	Notes: Bt products, Success, Delegate, Altacor and Exirel are stomach poisons so complete coverage is important for satisfactory control. When larvae are first noticed, apply Bt during late afternoon or on a cloudy day when no rain is forecast for 24 hours. If there is more than 2 mm rainfall within 24 h of application, re-apply product. Wait 7 days (in absence of rain) before applying 2nd treatment of Bt or another product. Optimum solution pH for Bt products is 6.						
Peach Twig Borer	Chlorantraniliprole (Altacor MaX) 34654	28	108 - 143 g	44 - 58 g	12 h	1	Use pheromone traps to monitor adults and apply within 7 days of first trap catch of adult male moths. Do not exceed 324 g/ha (131 g/ac). Do not apply more than once every 7 days.
	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.
	deltamethrin (Decis) 22478	3	200 mL	80 mL	48 h	1	Decis is harmful to beneficial insects and mites. Residual control: 10 days/
	cyantraniliprole (Exirel) 30895	28	750-1000 mL	304-404 mL	12 h	3	Use pheromone traps to monitor adults and apply with 7 days of first trap catch of adult male moths. Do not apply more than 4times/season. Do not tank mix with Flint, Pristine, Cabrio, copper or captan fungicides. Toxic to bees. Spray interval: 7 to 10 days.
	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.
	novaluron (Rimon) 28515	15	1.35-3.35 L	0.55-1.35 L	12 h	14	Use the high rate for higher populations. Spray interval: 10 to 14 days.
	methoxyfenozide (Intrepid) 27786	18	0.75 L	304 mL	12 h	7	Do not apply more than 2 times per season. Spray interval: 10 to 14 days.
	chlorantraniliprole (Altacor) 28981	28	215-285 g	87-115 g	12 h	1	Use pheromone traps to monitor adults and apply within 7 days of first trap catch of adult male moths. Do exceed 645 g/ha (261 g/ac) per season. Spray interval: 7 to 14 days (see label).
Notes: To properly time spray applications, use pheromone-baited traps to monitor adult male moths. Success and Entrust will suppress thrips.							

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Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (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	Do not apply more than once per season. Spray interval: minimum 7 days.
	clofentezine (Apollo) 21035	10	300-600 mL	120-240 mL	12 h	21	Do not apply more than once/season. Residual control: 45 days.
	bifenazate (Acramite) 27925	20D	851 g	344 g	12 h	7	Apply at first sign of mite activity. Do not apply more than once per season. Residual control: 21 days.
Notes: Determine the presence and number of predatory mites before spraying. Apply the products in sufficient water to ensure thorough and uniform coverage.							
McDaniel, Twospotted Spider Mites	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	Do not apply more than once/season. Spray interval: minimum 7 days.
	clofentezine (Apollo) 21035	10	300 - 600 mL	120-240 mL	12 h	21	Do not apply more than once/season. Residual control: 45 days.
	bifenazate (Acramite) 27925	20D	851 g	344 g	12 h	7	Apply at first sign of mite activity. Do not apply more than once/season. Residual control: 21 days.
Notes: Determine the presence and number of predatory mites before spraying. Apply the products in sufficient water to ensure thorough and uniform coverage.							
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.
	spinosad (Success) 26835	5	182 mL	73 mL	dry	14	For Nectarines only and suppression only. Apply when larvae become active. Do not apply more than 3 times per season. Do not apply when bees are actively foraging. Spray interval: 7 to 10 days.
	spinosad (Entrust) 30382	5	364 ml	147 ml	dry	14	For Nectarines only and suppression only. Apply when larvae become active. Do not apply more than 3 times per

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Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
							season. Do not apply when bees are actively foraging. Spray interval: 7 to 10 days.
Fruittree and European Leafrollers	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	14	Do not apply more than 3 times/season. Spray interval: 7 to 10 days.
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4 L	1.6 L	24 h*	0	See Notes. 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	See notes on application of Bt products.
	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, Cabrio, Pristine, captan or copper fungicides. TOXIC to bees. Spray interval: 7 to 10 days.
Notes: Exirel, Delegate, Entrust, Success and Bt products are stomach poisons so complete coverage is important for satisfactory control. When bloom is 80% or more apply Bt products during the late afternoon or on a cloudy day when no rain is forecast for 24 hours. If there is more than 2 mm of rainfall within 24 hours of application, re-apply product. Wait 7 days (in absence of rainfall) before applying a second treatment of Bt or another products. Optimum solution pH for Bt products is 6.							
Green Fruitworms	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. 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 control other leaf-feeding larvae present. Spray interval: 7 days under optimal conditions.
Eyespotted Bud Moth	spinosad (Success) 26835	5	182 mL	74 mL	dry	1	Do not apply more than 3 times/season. Spray interval: 7 to 10 days.
	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,

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Stage of Development: Petal Fall							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
							copper or captan fungicides. Toxic to bees. Spray interval: 7 to 10 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	1	Do not apply more than 3 times per season. Spray interval: 7 to 10 days.
Brown Rot	Bacillus amyloliquefaciens strain MBI 600	BM02	0.9 kg	0.36 kg	4 h	0	Begin applications prior to infection and continue on 7 to 10 day intervals if conditions are favourable for disease development.
	captan (Captan L) 35343	M04	6.64 L	2.68 L	1 - 29 days	15 days	Use under conditions of low to moderate disease pressure. Apply preventatively when conditions are favourable for disease development.
	chlorothalonil (Echo) 33479	M5	3.5 - 6.3 L	1.4 - 2.5 L	12 hr - 11 days	60	Do not apply Echo after shuck split. Use higher rate for trees over 6 m in height. Refer to label for specific REI's for thinning activities. Do not apply this product within 10 days of an oil application as it may cause burning to flowers and leaf tissue.
	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	1 day (hand harvest)	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.
	chlorothalonil (Bravo ZNC) 33515	M5	5 - 7 L	2.0 - 2.83 L		60 days	Do not apply Bravo after shuck split. Use higher rate for trees over 6 m in height. Refer to label for specific REI's for thinning activities.
	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.
	Polyoxin D Zinc Salt (Diplomat 5SC) 32918	19	463 - 926 ml	187 - 375 ml	4 h	0 days	Application interval: 7 to 14 days as needed. Do not apply more than 150 g of active ingredients/ha/year.
fluopyram + trifloxystrobin (Luna)	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	

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Stage of Development: Petal Fall							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
	Sensation) 32107						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	182 - 292 ml	74 - 118 ml	12 h - 9 days	14	Use preventatively in rotation with fungicides from other groups from pink to petal fall. Maximum 1 application/season. REI of 9 days is for thinning.
	fenhexamid (Elevate) 25900	17	1.7 kg	690 g	4 h	1	Do not apply more than 2 consecutive applications.
	boscalid (Cantus) 30141	7	370 g	150 g	12 h	0	Avoid more than 2 consecutive applications.
	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.
	myclobutanil (Nova 40WP) 22399	3	340 g	140 g	12 h - 12 days	1	Limit use of group 3 fungicides (Indar, Nova, Topas, Jade, Tilt, Quash) to 2 sprays/season. Rotate with fungicides from other groups. 12 days REI for thinning.
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	750 g - 1 kg	304 g - 405 g	dry - 10 days	0	Also suppresses powdery mildew. 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	
			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.
	Notes: Use higher rate for trees over 6 m tall. Refer to label for specific REI's for thinning activities.						
	Notes: Brown rot infection begins at bloom. Protect blossoms if weather is wet. Rotate fungicides for resistance management.						
Powdery Mildew (Peaches and Nectarines)	pydiflumetofen + difenoconazole (Miravis Duo) 33206	7 + 3	1 L	405 ml	12 hours	0 days	Max 2 applications, then switch to a non-Group 7 and 3 fungicide. Application interval: 7 - 14 days.

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Stage of Development: Petal Fall to Husk Fall							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (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	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
Green Peach Aphid and Black Peach Aphid	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.
	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, Pristine, Cabrio, copper or captan fungicides. Toxic to bees. Spray interval: 7 to 10 days.
	flonicamid (Beleaf) 29796	29	120-200 g	49-81 g	12 h-3 days	14	Use higher rate for greater pest populations and/or dense foliage. Maximum of 3 applications per year. 3 days REI for thinning.
	sulfoxaflor (Closer) 30826	4C	100-200 mL	40-80 mL	12 h	7	Do not apply more than 2 times/season. Spray interval: minimum 7 days.
Notes: Many kinds of beneficial insects feed on aphids attacking peaches (mainly green peach aphid, black peach aphid and mealy plum aphid). Avoid using Group 4 products more than twice/season for all registered uses to prevent mite problems.							
Peach Twig Borer	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.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	14	For Suppression only. Apply when larvae become active. Do not apply more than 3 times per season. Do not apply when bees are actively foraging. Spray interval: 7 to 10 days.
	methoxyfenozide (Intrepid) 27786	18	0.75 L	304 mL	12 h	7	Do not apply more than 2 times per season. Spray interval: 10 to 14 days.
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.
	spinosad (Success) 26835	5	182 mL	73 mL	dry	14	For Nectarines only and suppression only. Apply when larvae become active. Do not apply more than 3 times per season. Do not apply when bees are actively foraging. Spray

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Stage of Development: Husk Fall							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
							interval: 7 to 10 days.
	spinosad (Entrust) 30382	5	364 ml	147 ml	dry	14	For Nectarines only and suppression only. Apply when larvae become active. Do not apply more than 3 times per season. Do not apply when bees are actively foraging. Spray interval: 7 to 10 days.
Mealybugs	spirotetramat (Movento 240 SC) 28953	23	365-585 mL	148-237 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.
Powdery Mildew (Peaches and Nectarines)	fenazaquin (Magister SC) 34544	21 + 39	1.75 - 2.63 L	0.7 - 1.1 L	12 h - 17 days	10 days	Toxic to bees. Avoid application during bloom. Maximum number of applications: 1
	sulphur (Cosavet DF Edge 31869, Kumulus 18836, Microthiol 29487)	M2	7.0 kg	2.8 kg	24 h	1	May cause injury during hot weather. Repeat in 10 - 14 days. Do not apply more than 8 applications per season. The Cosavet is not registered for use on nectarines. Note: apricots are sensitive to sulphur applications - do not spray sulphur near apricot trees.
	pyraclostrobin + fluxapyroxad (Merivon) 33951	7 + 11	0.3 - 0.4 L	0.12 - 0.16 L	12 h - 12 days	1 day (hand harvest)	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.
	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	255 - 292 ml	103 - 118 ml	12 h - 9 days	14	Suppression of powdery mildew only. Maximum one application/season. REI of 9 days is for thinning.
	metrafenone (Vivando) 29765	U8	750 mL - 1.12 L	304 - 453 mL	12 h	7	Apply prior to onset of disease and at 14-21 day intervals. Maximum of 2 sprays/season.
	potassium bicarbonate (MilStop) 28095	NC	2.8-5.6 kg	1.13 - 2.27 kg	4 h	0	Suppression only. Do not mix with other pesticides or fertilizers.
	myclobutanil (Nova 40WP) 22399	3	340 g	140 g	12 h-12	1	Limit use of group 3 fungicides (Indar, Nova, Topas, Jade, Tilt, Quash) to 2 sprays/season. Rotate with fungicides from

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Stage of Development: Husk Fall							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
					days		different groups. 12 days REI for thinning.
	trifloxystrobin (Flint Extra Fungicide) 34962	11	145 - 290 ml	59 - 117 ml	12 h - 7 days	1	Suppression only. Use the higher rate for high disease pressure. Limit sprays of Group 11 fungicides (Flint, Cabrio, Pristine) to 2 per season. 4 days REI for thinning.
	mineral oil (Purespray Green) 27666	NC	10 L	4 L	12 h	0	For suppression of powdery mildew, apply in a minimum of 1000 L water/ha at 10-14 day intervals. Do not use in combination with or within 14 days of sulphur or captan.
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	750 g - 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.
	Notes: Rotate fungicides from different groups for resistance management.						
Coryneum blight	trifloxystrobin (Flint Extra Fungicide) 34962	11	215- 290 ml	87 - 290 ml	12 h – 4 days	1	Use the high rate for high disease pressure. Limit sprays of Group 11 fungicides (Flint, Cabrio, Pristine) to 2/season. 4 days REI for thinning.
	Notes: To prevent fruit infection, apply Flint or Ferbam as soon as most of the husks have dropped for good coverage of the fruitlets. Do not apply ferbam later than huskfall.						

Stage of Development: Summer							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
Obliquebanded and Threelined Leafrollers	Chlorantraniliprole (Altacor MaX) 34654	28	73 - 143 g	30 - 58 g	12 h	5	Apply when larvae become active. Do not apply more than 3 times/ season. Spray interval: 10 to 14 days (see label).
	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	1	Do not apply more than 3 times/season.

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Stage of Development: Summer							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
	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, Cabrio, 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	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	1	Do not apply more than 3 times per season. Spray interval: 7 to 10 days.
	spinetoram (Delegate) 28778	5	210-420 g	85-170 g	12 h	1	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	1	Monitor adult moth flight and apply at first egg hatch. 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).
Notes: Success, Delegate and Altacor are stomach poisons so complete coverage is important for satisfactory control.							
Peach Tree Borer	Chlorantraniliprole (Altacor MaX) 34654	28	108 - 143 g	44 - 58 g	12 h	1	Use pheromone traps to monitor adults and apply within 7 days of first trap catch of adult male moths. Do not exceed 324 g/ha (131 g/ac). Do not apply more than once every 10 days.
	novaluron (Rimon) 28515	15	1.4L/1000L of water	1.4L/1000L 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. May be harmful to predatory mites. Spray interval: 21 days.
	spinetoram (Delegate) 28778	5	420 g	170	12	1	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.
	chlorantraniliprole (Altacor) 28981	28	215-285 g	87-115 g	12 h	1	Use pheromone traps to monitor adults and apply within 7 days of first trap catch of adult male moths. Do not exceed 645 g/ha (261 g/ac) per season. Do not apply more than once every 10 days.
Notes: Mating disruption is very effective.							
Peach Twig Borer	Chlorantraniliprole (Altacor MaX) 34654	28	108 - 143 g	44 - 58 g	12 h	1	Use pheromone traps to monitor adults and apply within 7 days of first trap catch of adult male moths. Do not exceed 324 g/ha (131 g/ac). Do not apply more than once every 7 days.
	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.

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Stage of Development: Summer							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
	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.
	cyantraniliprole (Exirel) 30895	28	750-1000 mL	304-404 mL	12 h	3	Use pheromone traps to monitor adults and apply within 7 days of first trap catch. Do not apply more than 4 times/season. Do not tank mix with Flint, Pristine, Cabrio, copper or captan. Toxic to bees. Spray interval: 7 to 10 days.
	phosmet (Imidan 70% WP) 29064	1B	2.68 kg	1.08kg	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.
	novaluron (Rimon) 28515	15	1.35-3.35 L	0.55-1.35 L	12 h	14	Use the higher rate for higher populations. Spray interval: 10 to 14 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	14	Suppression only. Maximum of 3 applications/season. Avoid use when bees are active. Spray interval: 7 to 10 days.
	methoxyfenozide (Intrepid) 27786	18	0.75 L	304 mL	12 h	7	Do not apply more than 2 times per season. Spray interval: 10 to 14 days.
	chlorantraniliprole (Altacor) 28981	28	215-285 g	87-115 g	12 h	1	Use pheromone traps to monitor adults and apply within 7 days of first trap catch of adult male moths. Do not exceed 645 g/ha (261 g/ac) per season. Spray interval: 7 to 14 days (see label).
Notes: To properly time spray applications, use pheromone-baited traps to monitor adult male moths. Bt products are effective if applied before larvae tunnel into twigs, buds or fruits.							
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	Do not apply more than once per season. Spray interval: minimum 7 days.
	clofentezine (Apollo) 21035	10	300 - 600 mL	120 - 240 mL	12 h	21	Apply at first sign of mite activity. Do not apply more than once/season. Residual control: 45 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. To prevent phytotoxicity, do not apply less than 1000 L water/ha (1% solution). Do not use within 14 days of captan. Post harvest sprays may be made to reduce over- wintering pressure.

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Stage of Development: Summer							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
	bifenazate (Acramite) 27925	20D	851 g	344 g	12 h	7	Do not apply more than once/season.
Notes: The presence and number of predatory mites should first be determined before spraying. Apply the products in sufficient water to ensure thorough and uniform coverage.							
Notes: Not all stone fruit varieties have been tested for tolerance to PureSpray Green Oil 13E. It is therefore important to limit application to a small area of each variety to confirm tolerance prior to adoption as a general field practice.							
McDaniel, Twospotted Spider Mites	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
	Mineral oil (Suffoil-X) 33099	NC	13 L/1000 L of water	13 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	Do not apply more than once/season. Spray interval: minimum 7 days.
	clofentezine (Apollo) 21035	10	300 - 600 mL	120-240 mL	12 h	21	Do not apply more than once/season. Residual control: 45 days.
	bifenazate (Acramite) 27925	20D	851 g	344 g	12 h	7	Apply at first sign of mite activity. Do not apply more than once/season. Residual control: 21 days.
Green Peach Aphid and Black Peach Aphid	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	13 L/1000 L of water	13 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, Pristine, Cabrio, 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.
	sulfoxaflor (Closer)	4C	100-200 mL	40-80 mL	12 h	7	Do not apply more than 2 times/season. Spray interval:

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Stage of Development: Summer							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
	30826						minimum 7 days.
	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 use within 14 days of captan or sulphur.
	Notes: 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						
	Notes: Avoid using Group 4 products more than twice/season for all registered uses to prevent mite problems. Not all stone fruit varieties have been tested for tolerance to PureSpray Green Oil 13E. It is therefore important to limit application to a small area of each variety to confirm tolerance prior to adoption as a general field practice. Post harvest sprays of Purespray may be made to reduce over-wintering pressure.						
	Notes: Do not use more than 2 times/season. Spray interval: minimum 7 days. Admire and Alias will no longer be registered for use by growers as of April 11, 2021.						
Spotted Wing Drosophila	fenprothrin (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)
	cypermethrin (UP-Cyde 2.5 EC) 28795	3	245 - 285 ml	99 - 115 ml	12 hours	2 days	Allow a minimum of 7 days between treatments. Do not apply more than two treatments. Do not apply during crop bloom period.
	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	1	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 application 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, Cabrio, 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	7	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	17	Toxic to bees. Do not apply more than 1 application per season. All thinning activities must be completed prior to

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Stage of Development: Summer							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
					days		application.
	spinosad (Entrust) 30382	5	364 mL	147 mL	4 h	1	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	1 day	Begin applications when fruit begins to ripen. Re-apply at 7-day intervals (maximum 3 applications per season for all uses). For control of adults only.
Notes: Do not rely on Admire, Assail or GF-120 for control of SWD.							
Eyespotted Bud Moth	spinosad (Success) 26835	5	182 mL	74 mL	dry	1	Do not apply more than 3 times/season. Spray interval: 7 to 10 days.
	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, Cabrio, copper or captan fungicides. Toxic to bees.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	1	Do not apply more than 3 times per season. Spray interval: 7 to 10 days.
Lecanium scale	malathion (Malathion 85E) 8372	1B	490 - 855 mL/1000 L water		1 - 3 days	7	Only one application per year. Apply the spray mixture in sufficient volume to ensure thorough coverage. Can provide up to 10 days protection.
	spirotetramat (Movento 240 SC) 28953	23	365-585 mL	148-237 mL	12 h	7	For suppression only. 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.
San Jose Scale	sulfoxaflor (Closer) 30826	4C	200-400 mL	80-160 mL	12 h	7	Do not apply more than 2 times/season. Spray interval: minimum 7 days.
	spirotetramat (Movento 240 SC) 28953	23	365-585 mL	148-237 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: 7 days.
Notes: Use sufficient water volume to ensure thorough and uniform coverage of the tree limbs and trunks. Leave lower nozzles on when spraying high density trees in order to control scales on the trunks.							
Leafhoppers	sulfoxaflor (Closer) 30826	4C	200-400 mL	81-162 mL	12 h	7	Apply when insect populations reach threshold levels. For suppression of leafhoppers.
Mealybugs	spirotetramat (Movento 240 SC) 28953	23	365-585 mL	148-237 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.
Shothole Borer	Notes: Cultural control. See description of shothole borer.						
Stink Bugs	Notes: 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.						

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Stage of Development: Summer							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
Powdery Mildew (Sweet Cherries)	florylpicoxamid+pydi flumetofen (Verpixo AYR) 35832	21 + 7	1.33 L	0.56 L	12 h	1 day	Make one application per year within 1 to 21 days prior to harvest. Not all varieties have been tested for tolerance; a small area of the crop should be tested to confirm tolerance prior to application on a large scale.
Brown Rot	captan (Captan L) 35343	M04	6.64 L	2.68 L	1 - 29 days	15 days	Use under conditions of low to moderate disease pressure. Apply preventatively when conditions are favourable for disease development.
	BLAD polypeptide (ProBlad) 34050	BM-0 1	1.5 - 3.3 L	0.61 - 1.33 L		0	Make application in the month before harvest on a 7 to 10 day preventive schedule when conditions favour disease development. Under conditions of weather favoring severe disease pressure apply the higher labeled rate and shorter intervals.
	pyraclostrobin + fluxapyroxad (Merivon) 33951	7 + 11	0.3 - 0.4 L	0.12 - 0.16 L	12 h - 12 days	1 day (hand harvest)	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.
	Polyoxin D Zinc Salt (Diplomat 5SC) 32918	19	463 - 926 ml	187 - 375 ml	4 h	0 days	Application interval: 7 to 14 days as needed. Do not apply more than 150 g of active ingredients/ha/year.
	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	182 - 292 ml	74 - 118 ml	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.
	fenhexamid (Elevate) 25900	17	1.7 kg	690 g	4 h	1	Do not apply more than 2 consecutive applications.

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Stage of Development: Summer							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
	boscalid (Cantus) 30141	7	370 g	150 g	12 h	0	Avoid more than 2 consecutive applications.
	myclobutanil (Nova 40WP) 22399	3	340 g	140 g	12 h - 12 days	1	Limit use of Group 3 fungicides (Indar, Nova, Topas, Jade, Tilt, Quash) to 2 sprays/season. Rotate with fungicides from different groups. 12 days REI for thinning.
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	750 g - 1 kg	300 g - 405 g	dry - 10 days	0	Also suppresses powdery mildew. Limit sprays of class 11 fungicides to 2 per season for resistance management.
	penhiopyrad (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	
			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.
	Notes: Fruit becomes increasingly susceptible to brown rot as it ripens. Rotate fungicides for resistance management. Follow pre-harvest intervals.						
Powdery Mildew (Peaches and Nectarines)	pydiflumetofen + difenoconazole (Miravis Duo) 33206	7 + 3	1 L	405 ml	12 hours	0 days	Max 2 applications, then switch to a non-Group 7 and 3 fungicide. Application interval: 7 - 14 days.
Post-Harvest Rots Initiated in the Orchard	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	750 g - 1 kg	300 g - 405 g	dry - 10 days	0	Limit sprays of group 11 fungicides to 2 per season for resistance management.

Stage of Development: Fall							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
Brown Rot	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.
	chlorothalonil (Bravo ZNC) 33515	M5	5 - 7 L	2.0 - 2.83 L		60 days	Use higher rate for trees over 6 m in height. Refer to label for specific REI's for thinning activities.
Coryneum blight	copper oxychloride (Guardsman Copper Oxychloride 13245)	M1	9 kg	3.6 kg	48 h		Apply in September after harvest before fall rains. Maximum 1 application per year.
	copper octanoate (Cueva Commercial)	M1	Prepare 0.5-2% (5-20 L/1000 L)				Apply 470-940 L/ha (190-380 L/ac) as a dormant spray in late fall during a period of dry weather.

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Stage of Development: Fall							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
	31825		water)				
	copper oxychloride (Copper Spray 19146)	M1	9 kg	3.6 kg	48 h	n/a	Apply in September after harvest before fall rains
Notes: Apply in September after harvest before fall rains.							
Peach Leaf Curl	copper oxychloride (Guardsman Copper Oxychloride 13245)	M1	2 kg	800 g	48 h	n/a	Apply at 75-100% leaf drop during dry weather. A spring dormant spray may also be required.
	copper octanoate (Cueva Commercial) 31825	M1	Prepare 0.5-2% (5-20 L/1000 L water)		4 h		Apply 470-940 L/ha (190-380 L/ac) as a dormant spray in late fall during a period of dry weather.
	copper oxychloride (Copper Spray 19146)	M1	2 kg	800 g	48 h	n/a	Apply at 75-100% leaf drop during dry weather. A spring dormant spray may also be required.

Stage of Development: Post-Harvest							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
Leafhoppers	sulfoxaflor (Closer) 30826	4C	200-400 mL	81-162 mL	12 h	7	Apply when insect populations reach threshold levels. For suppression of leafhoppers.
Peach Leaf Curl	Copper hydroxide (Parasol) 25901	M1	4.5 - 8.9 L	1.8 - 3.6 L	48 hrs	2 days	Apply after leaf fall. Use the higher rate when rainfall is very heavy and disease pressure is high.
Post-Harvest Rots Initiated in the Orchard	fludioxonil (Scholar) 29528	12	n/a	n/a	n/a	n/a	For protection against Brown, Botrytis and Rhizops rots, apply post-harvest dip or drench application of harvested fruit on the packing line. See label for details.

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