

Stage of Development: Dormant							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
European Red Mite	mineral oil (Double Down Spray Oil) 33589	NC	20 L per 1000 L water		12 h		Do not use within 14 days of sulphur or captan fungicide. Do not apply just prior to or during freezing temperatures or rain.
	mineral oil (Purespray Green) 27666	NC	20 L/1000 L of Water	20 L/1000 L of Water	12 h	n/a	Apply at dormant to pre-bloom. Do not apply just 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 at dormant/delayed dormant. Use high rates if orchard has a history of heavy populations. Spray interval: 10 to 14 days.
San Jose Scale	mineral oil (Guardsman) 23370	NC	90 L	36 L	12 h	n/a	Do not apply just before or during freezing weather. One application/season.
	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.						
Lecanium scale	mineral oil (Guardsman) 23370	NC	90 L	36 L	12 h	n/a	Do not apply just before or during freezing weather. One application/ season.
Coryneum blight	Copper hydroxide (Parasol) 25901	M1	4.5 - 6.7 L	1.8 - 2.7 L	48 hrs	2 days	Apply as a dormant application before foliage buds swell.

Stage of Development: Pink							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (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.
	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.

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

Stage of Development: Pink							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
	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 applications per season.
	boscalid (Cantus) 30141	7	370 g	150 g	12 h	0	Avoid more than 2 consecutive applications.
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	750 g - 1 kg	300 g - 405 g	dry - 10 days	0	Avoid more than 2 consecutive applications. Also suppresses powdery mildew. Do not use more than 2-3 times per season. 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.
			140 g	57 g	12 h	1	Limit sprays of class 3 fungicides (Princeton, Indar, Nova, Quash) to 2 per season for resistance management.
Notes: Brown rot infection begins at bloom. Protect blossoms if weather is wet. Rotate fungicides for resistance management.							

Stage of Development: Blossom							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
Peach Twig Borer	novaluron (Rimon) 28515	15	1.35 - 3.35 L	0.55 - 1.35 L	12 h	14	Apply if larvae or their damage are observed. Use sufficient water volume to ensure thorough coverage. Spray interval:

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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
							10 to 14 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.
	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.
	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	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	7	333 mL	135 mL	12 h	0	The use of a non-ionic surfactant (0.125 % v/v) is	

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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
	(Sercadis) 31697						recommended.
	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.
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	750 g - 1 kg	300 g - 405 g	dry - 10 days	0	Also suppresses powdery mildew. Do not use more than 2 - 3 times 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 sprays of class 3 fungicides (Prinecton, Indar, Quash) to 2 per season for resistance management.
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	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).
	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 control other leaf-feeding larvae present. See Notes regarding application. Spray interval: 7 days under optimal conditions.

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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
	Bacillus thuringiensis (Dipel 2X DF) 26508	11	1.125 - 1.675 kg	455 - 678 kg	24 h*	0	Add sticker-spreader to Dipel to improve rain fastness. 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 high rate for higher populations. Maximum 3 applications per season. Spray interval: 10 to 14 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	3	Use high rate for higher populations. Maximum 3 applications per season. Spray interval: 7 to 10 days.
	spinetoram (Delegate) 28778	5	210-420 g	85-170 g	12 h	3	Apply when larvae are actively feeding but before they roll up in leaves. Do not apply more than 3 times 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	Apply when larvae become 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).
<p>Notes: Bt products, Delegate, Success, Altacor and Exirel are stomach poisons so complete coverage is important for satisfactory control. Apply Bt products when bloom is 80% or more 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 a 2nd treatment of B. thuringiensis or another product. Optimum solution pH for Bt products is 6.</p>							
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.
	cyantraniliprole (Exirel) 30895	28	750- 1000 mL	304- 404 mL	12 h	3	Monitor moths with pheromone traps and apply within 7 days of first trap catch of adult male moths. Do not apply more than 4 times/season. Do not tank mix with Flint, Pristine, copper or captan fungicides. Toxic to bees. 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	Monitor moths with pheromone traps and apply within 7 days of first trap catch of adult male moths. 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

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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
							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 fruit. Success and Entrust will suppress thrips.						
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.
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.
	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 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	Add sticker-spreader to Dipel to improve rain fastness. 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, captan or copper fungicides. TOXIC to bee. 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.
	Notes: All products are stomach poisons so thorough and uniform coverage is important for satisfactory control. See Notes under Obliquebanded leafroller regarding application of Bt products.						
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. See Notes under Obliquebanded leafroller regarding application. Spray interval: 7 days under optimal conditions.
	Bacillus thuringiensis (Dipel)	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Add sticker-spreader to Dipel to improve rain fastness. Spray interval: 7 days under optimal conditions.

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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
	2X DF) 26508						
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.
	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.
	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		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.
	boscalid (Cantus) 30141	7	370 g	150 g	12 h	0	Avoid more than 2 consecutive applications
Bacillus subtilis (Serenade Opti)	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.	

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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
	31666						
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	750 g - 1 kg	300 g - 405 g	dry-10 days	0	Avoid more than 2 consecutive applications. Also suppresses powdery mildew. Do not use more than 2-3 times per season. 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 sprays of class 3 fungicides (Princeton, Indar, Quash) to 2 per season for resistance management.
Notes: Brown rot infection begins at bloom. Protect the blossoms if the weather is wet. Rotate fungicides for resistance management.							

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 disp.	100-250 disp.	n/a	0	Apply dispensers prior to 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
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.
	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	dry	14	For suppression only. Apply when larvae become active. Do not apply more than 3 times/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

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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
							groups that control the same pests.
San Jose Scale	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.
	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.
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 (Apricots)	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
	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.
	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.
	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.
	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 class 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	300 g - 405 g	dry - 10 days	0	Avoid more than 2 consecutive applications. Do not use more than 2-3 times per season. 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.
Powdery Mildew (Peaches and Nectarines)	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.

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Stage of Development: Husk Fall							
Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
							Apply an additional applic. at an interval of 7 - 14 days if disease persists or weather conditions are favourable for disease development.
Coryneum blight	trifloxystrobin (Flint Extra Fungicide) 34962	11	215- 290 ml	87 - 290 ml	12 h-7 days	1	Use the higher rate for high disease pressure. Limit sprays of class 11 fungicides (Flint, Cabrio, Pristine) to 2 per season. 4 days REI for thinning.
	Notes: Treatment at husk fall is important to protect the fruit from infection.						

Stage of Development: Summer							
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).
	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*		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	See Notes regarding application. Will also control other leaf-feeding larvae present. 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. Repeat application 10 days later if required. 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. Spray interval: 10 to 14 days.
	spinosad (Entrust)	5	364 mL	147 mL	dry	3	Do not apply more than 3 times per season. Spray interval: 7

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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
	30382						to 10 days.
	spinetoram (Delegate) 28778	5	210-420 g	85-170 g	12 h	7	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: Altacor, Delegate, Success, Entrust and Bt products are stomach poisons so complete coverage is important for satisfactory control.							
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.
	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.
	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	Monitor adult moths with pheromone traps and apply within 7 days of first trap catch of adult male moths. 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.
	novaluron (Rimon) 28515	15	1.35- 3.35 L	0.55- 1.35 L	12 h	14	Use high rate for higher populations. Monitor for shoot strikes and apply when larvae or their damage are observed. Do not apply more than 3 times per season. 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	Monitor moths with pheromone traps and apply within 7 days of first trap catch of adult male moths. Do not apply more than 3 times/season. For rates above 215 g/ha (87 g/ac), do

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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
							not apply more than twice/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 fruit.							
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	Apply 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. 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.
	bifenazate (Acramite) 27925	20D	851 g	344 g	12 h	7	Do not apply more than once/season. Residual control: 21 days.
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	Apply only once per season. Spray interval: minimum 7 days.
	bifenazate (Acramite) 27925	20D	568 g	284 g	12 h	7	Do not apply more than once/season. Residual control: 21 days.
Notes: The presence and number of predatory mites should first be determined before spraying. Apply the products in sufficient water to ensure thorough							

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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
	and uniform coverage.						
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 and captan fungicides. Toxic to bees. Spray interval: 7 to 10 days.
	flonicamid (Beleaf) 29796	29	160 g	65 g	12 h-2 days	14	Experience in the field indicates there may be issues with current label. 2 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.
	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.
Notes: Do not apply more than once/season. Spray interval: 10 to 14 days. Clutch will no longer be registered for use by growers as of April 11, 2021.							
Spotted Wing Drosophila	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)
	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	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	28	1000- 1500 mL	404- 607 mL	12 h	3	Begin application when fruit begin to ripen. Re-apply at 7 day

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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
	(Exirel) 30895						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	246 - 346 mL	12 h – 3 days	7	May be effective for 5 days. Works better at temperatures above 20°C. Max 2 applications per year, with a 10 day interval.
	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.
Notes: Do not rely on Admire, Assail or GF-120 for control of SWD.							
San Jose Scale	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.
	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.
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.
Lecanium scale	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/ha/season. Spray interval: minimum 14 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.							
Peach Tree Borer	novaluron (Rimon) 28515	15	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. May be harmful to predatory mites. Spray interval: 21 days.
	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.
Notes: Mating disruption is very effective.							

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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
European Earwig	Notes: See the description of earwigs for management options including baiting and trapping.						
Shothole Borer	Notes: There are currently no registered products for controlling shothole beetles on apricots. Good sanitation is the best management strategy. Remove large wood piles and prunings from the orchard. Cultural control by maintaining optimum tree vigour is important as beetles are attracted to trees weakened by drought, transplanting, disease, etc.						
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.						
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-01	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.
	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	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.

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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.
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	750 g- 1 kg	300 g -405 g	dry-10 days	0	Avoid more than 2 consecutive applications. 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	
Notes:							
			140 g	57 g	12 h	1	Limit sprays of class 3 fungicides (Princeton, Indar, Quash) to 2 per season for resistance management.
Notes: Fruit becomes increasingly susceptible to brown rot as it ripens. Rotate fungicides for resistance management. Follow pre-harvest intervals.							

Stage of Development: Fall							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
Shothole Borer	Notes: See description of shothole borer for cultural control options.						
Coryneum blight	copper oxychloride (Guardsman Copper Oxychloride 13245)	M1	9 kg	3.6 kg	48 h	n/a	Apply in September after harvest and before fall rains. Maximum 1 application per year.
	copper octanoate (Cueva Commercial) 31825	M1	Prepare 0.5-2% (5-20L/1000L water)		4 h	1	Apply 470-940 L of mixture/ha (190-380 L/acre) as a dormant spray in late fall during a period of dry weather.
	copper oxychloride (Copper Spray 19146)	M1	9 kg	3.6 kg	48 h	n/a	Apply in September after harvest.
Notes: Apply in September after harvest.							

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	sulfoxaflo (Closer) 30826	4C	200-400 mL	81-162 mL	12 h	7	Apply when insect populations reach threshold levels. For suppression of leafhoppers.
Post-Harvest Rots Initiated in the	fludioxonil (Scholar) 29528	12	n/a	n/a	n/a	n/a	For protection against Brown, Botrytis and Rhizopus rots, apply post-harvest dip or drench application to harvested fruit

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Stage of Development: Post-Harvest							
Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI²	PHI³ (days)	Precautions and Notes
Orchard							in the packinghouse. See label for details.

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