

## Cherry

Stage of Development: Dormant							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
San Jose Scale	mineral oil (Superior 70) 14981	NC	60 L	24 L	12 h	n/a	Do not apply just before or during freezing weather. One application/season.
	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.
Ambrosia Beetle	<b>Notes:</b> There are currently no registered products for controlling ambrosia on cherries. Good sanitation is the best management strategy. Remove large wood pile 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.						
Shothole Borer	<b>Notes:</b> There are currently no registered products for controlling shothole beetles on cherries. Good sanitation is the best management strategy. Remove large wood pile 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.						
Bacterial Canker of Stone Fruits	Copper hydroxide (Parasol) 25901	M1	8.8 - 13.1 L	3.5 - 5.3 L	48 hrs	2 days	Use low rate for small trees, high rate for large trees.
	copper oxychloride (Guardsman Copper Oxychloride 13245)	M1	6-9 kg	2.4-3.6 kg	48 h	n/a	Apply in early spring before bud break. Maximum 2 applications per year.
	copper octanoate (Cueva Commercial) 31825	M1	Prepare 0.5-2% solution (5-20 L/1000 L water)				Apply 470-940 L of mixture/ha when buds begin to swell, repeating at the bud burst stage and weekly thereafter as needed (maximum 6 applications per season). See bacterial canker description.
	copper oxychloride (Copper Spray 19146)	M1	6-9 kg	2.4-3.6 kg	48 h	n/a	Apply in early spring before bud break.

Stage of Development: Green Tip to Pink							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
Black Cherry Aphid	afidopyropen (Varsys) 33266	9D	0.1 L	0.04 L	12 hrs	7 days	Allow 7 days between applications. Do not apply more than 2 times per season. For resistance management, rotate with another insecticide group after 2 applications.
	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.
	flonicamid (Beleaf) 29796	9C	160 g	65 g	12 h-2 days	14	Experience in the field indicates there are may be issues with current label rate. 2 days REI for thinning.

<sup>1</sup>Group number for resistance management. NC=not classified.

<sup>2</sup>Re-entry interval on the label (Pesticides Chapter). An asterisk(\*) indicates that no re-entry is shown on the label, but the WorkSafe BC re-entry interval may apply and is shown.

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

<b>Stage of Development: Green Tip to Pink</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
	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.
<b>European Red Mite</b>	mineral oil (Guardsman) 23370	NC	45 L	18.2 L	12 h	n/a	Use sufficient water volume to ensure thorough coverage of the trees.

<b>Stage of Development: Pink</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
<b>Brown Rot</b>	fluopyram + trifloxystrobin (Luna Sensation) 32107	7+11	300-400 mL	121-162 mL	12 h	1 day	Use higher rate for high disease pressure. Rotate with fungicides from other groups. Limit use of group 11 fungicides to 2 applications per season.
	metconazole (Quash 30402)	3	175 - 245 g	71 - 99 g	12 h - 9 days	14	Use in rotation with fungicides from other groups from pink to petal fall. Maximum 1 application/season. REI of 9 days is for thinning.
	BLAD polypeptide (Fracture) 32139	M12	1.5-3.3 L	0.6-1.3 L	24 h*	0	Suppression only. Use preventatively at pink, full bloom and petal fall. Maximum 3 applications/season.
	fluxapyroxad (Sercadis) 31697	7	333 mL	135 mL	12 h	0	The use of a non-ionic surfactant (0.125%) is recommended. Begin treatment when conditions favour disease development. Apply a second spray 7-14 days up to blossom if conditions for disease development persist. Maximum amount per season: 1 L/ha (405 mL/acre). Maximum 3 applications per season.

<b>Stage of Development: Blossom</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
<b>Brown Rot</b>	fluopyram + trifloxystrobin (Luna Sensation) 32107	7+11	300-400 mL	121-162 mL	12 h	1 day	Use higher rate for high disease pressure. Rotate with fungicides from other groups. Limit use of group 11 fungicides to 2 applications per season.
	Isfetamid (Kenja 31758)	7	913 ml	369 ml	12 hrs	1	Suppression only. Apply with a silicone surfactant. Do not apply more than 2 consecutive Group 7 applications. Maximum of 3 applications per year.
	metconazole (Quash 30402)	3	175 - 245 g	71 - 99 g	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)	M1	Prepare 0.5-2% solution (5-20		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

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<b>Stage of Development: Blossom</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
	31825		L/1000 L water)				for blossom blight control.
	fluxapyroxad (Sercadis) 31697	7	333 mL	135 mL	12 h	0	The use of a non-ionic surfactant (0.125 % v/v) is recommended.
	chlorothalonil (Bravo ZN) 28900	M5	5.0- 9.0 L	2.0- 3.6 L	48 h	40	Do not apply Bravo after shuck split. Use higher rate for trees over 6 m in height.
	triforine (Funginex) 27686	3	2.5 L	1 L	48 h	See notes	Do not apply after bloom.
	fenhexamid (Elevate) 25900	17	1.7 kg	690 g	4 h	1	Avoid more than 2 consecutive applications.
	propiconazole (Topas 30163, Jade 24030, Tilt 19346)	3	500 mL	200 mL	3 days	3	Caution- mildew resistance to group 3 fungicides may be developing. Limit use of group 3 fungicides (Indar, Nova, Topas, Jade, Tilt, Quash) to 2 sprays/season. Rotate with fungicides from different groups.
	boscalid (Cantus) 30141	7	370 g	150 g	12 h	0	Avoid more than 2 consecutive applications.
	fenbuconazole (Indar) 27294	3	140 g	57 g	12 h	1	Caution- mildew resistance to group 3 fungicides may be developing. Limit use of group 3 fungicides (Indar, Nova, Topas, Jade, Tilt, Quash) to 2 sprays/season. Rotate with fungicides from different groups.
	iprodione (Rovral) 15213	2	1.5 - 1.75 kg	610 - 710 g	12 h	1	Use higher rate of Rovral on large, mature trees.
	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	Caution - mildew resistance to Group 3 fungicides may be developing. Limit use of group 3 fungicides (Indar, Nova, Topas, Jade, Tilt, Quash) to 2 sprays/season. Rotate with fungicides from others groups. 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	Limit sprays of class 11 fungicides (Flint, Cabrio, Pristine) 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. Use a minimum rate of 1.25L/ha to also control botrytis.
	captan (Captan	M4	3.75 - 4.5 kg	1.5 - 1.8 kg	48 h	2	Do not apply in combination with or immediately before or

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Stage of Development: Blossom							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	Supra 24613, (Maestro )26408						after oil sprays.
<b>Notes:</b> Brown rot infection begins at bloom. Protect blossoms if weather is wet. Rotate fungicides for resistance management.							
<b>Bacterial Canker of Stone Fruits</b>	kasugamycin (Kasumin) 30591	24	100 ppm (5 L/1000 L water)	100 ppm (5 L/1000 L water)	12 h	30	For suppression of bacterial canker and control of blossom blast. Begin applications at early bloom. Repeat at 7 day intervals. Maximum of 4 applications per year.
<b>Botrytis Rot of Cherry</b>	penthiopyrad (Fontelis) 30331	7	1.25-1.75 L	506-709 mL	12 h	0	Do not apply more than 2 times per season. Use high rate for high disease pressure.
<b>Notes:</b> Many fungicides used for brown rot will also help to control botrytis, including Kenja, Rovral, Bravo, Elevate, Pristine and Cantus. However, botrytis resistance to Rovral and Senator may be present in some orchards. Blossom is an important spray timing for management of botrytis rots.							
<b>Powdery Mildew (Sweet Cherries)</b>	<b>Notes:</b> For blocks with high mildew pressure, begin mildew spray program no later than bloom to petal fall. See petal fall section for available sprays.						

Stage of Development: Petal Fall to Husk Fall							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
<b>Obliquebanded and Threelined Leafrollers</b>	cyclaniliprole (Harvanta 50SL) 32889	28	1.2 - 1.6 L	485 - 647 ml	12	7 days	Toxic to bees. Do not make more than 3 applications per crop year. Where possible, rotate the use of Harvanta or other Group 28 insecticides with different groups that control the same pests.
	Bacillus thuringiensis (Bioprotec PLUS) 32425	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See Notes. Spray interval: 7 days under optimal conditions.
	spinosad (Success) 26835	5	182 mL	74 mL	dry	7	Do not apply more than 3 times/season. Spray interval: 7 to 10 days.
	sulfoxaflor + spinetoram (TwinGuard) 31442	4C, 5	250 - 500 g	101 - 202 g	12 h	7	Apply when larvae are active. Do not apply more than 2 times/season. TOXIC to bees. Spray interval: 14 days.
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4.0 L	1.6 L	24 h*	0	Will also control bud moth. Spray interval: 7 days under optimal conditions.
	Bacillus thuringiensis (Dipel 2X DF) 26508	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Will also control bud moth. Spray interval: 7 days under optimal conditions.

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<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
	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 higher rate for higher populations. Maximum 3 applications/season. May be harmful to predatory mites. Spray interval: 10 to 14 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	3	Do not apply more than 3 times per season. Spray interval: 7 to 10 days.
	spinetoram (Delegate) 28778	5	210-420 g	85 g -170 g	12 h	5	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 larval populations in spring; apply when larvae are active. Maximum 3 applications per 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><b>Notes:</b> Altacor, Exirel, Delegate, Success and Bt products are stomach poisons so complete coverage is important for satisfactory control. These products will also control any other leafroller and bud moth larvae present. Apply Bt 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 second treatment of <i>B. thuringiensis</i> or another product. Optimum solution pH for Bt is 6.</p>							
<b>Western Flower Thrips</b>	cyclaniliprole (Harvanta 50SL) 32889	28	1.2 - 1.6 L	485 - 647 ml	12	7 days	For suppression only. 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.
<b>Fruittree and European Leafrollers</b>	Bacillus thuringiensis (Bioprotec PLUS) 32425	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See Notes. Spray interval: 7 days under optimal conditions.
	spinosad (Success) 26835	5	182 mL	74 mL	dry	7	Do not apply more than 3 times/season. Spray interval: 7 to 10 days.
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4 L	1.6 L	24*	0	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	Apply when larvae are active. Do not apply more than 4 times/season. Do not tank mix with Cabrio, Pristine, Flint, copper or captan fungicides. TOXIC to bees. Spray interval: 7 to 10 days.

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<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	3	Do not apply more than 3 times/season. Spray interval: 7 to 10 days.
	<b>Notes:</b> Bt products, Delegate, Entrust, Exirel, and Success are stomach poisons so complete coverage is important for satisfactory control. Apply Bt 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 hours of application, re-apply product. Wait 7 days (in absence of rain) before applying a second treatment of a Bt or other product. Optimum solution pH for Bt products is 6.						
<b>Green Fruitworms</b>	Bacillus thuringiensis (Bioprotec PLUS) 32425	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See Notes. Spray interval: 7 days under optimal conditions.
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4.0 L	1.6 L	24 h*	0	Will also control bud moth. Spray interval: 7 days under optimal conditions.
	Bacillus thuringiensis (Dipel 2X DF) 26508	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Will also control bud moth. Spray interval: 7 days under optimal conditions.
<b>Eyespotted Bud Moth</b>	spinosad (Success) 26835	5	182 mL	74 mL	dry	7	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, copper or captan fungicides. Toxic to bees. Spray interval: 7 to 10 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	3	Do not apply more than 3 times per season. Spray interval: 7 to 10 days.
<b>Peach Tree Borer</b>	pheromone (Isomate-P) 27141	NC	250-625	100-250	n/a	0	Apply before first moth flight.
<b>Mealybugs</b>	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.
	<b>Notes:</b> Admire used against other pests at petal fall will also provide control of mealybugs. Use high volume air-blast or hand gun applications.						
<b>Powdery Mildew (Sweet Cherries)</b>	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	245 - 280 g	99 - 113 g	12 h - 9 days	14	Suppression of powdery mildew only. Maximum one application/season. REI of 9 days is for thinning.
	metrafenone	U8	750 mL - 1.12 L	304 - 453 mL	12 h	7	Apply prior to onset of disease, and at 14-21 day intervals.

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<b>Stage of Development: Petal Fall to Husk Fall</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
	(Vivando) 29765						Do not make more than 2 consecutive applications.
	quinoxifen (Quintec) 29755	13	500 mL	200 mL	12 h	7	Apply before visible symptoms, and at 10-14 day intervals. Do not make more than 2 consecutive applications.
	myclobutanil (Nova 40WP) 22399	3	340 g	140 g	12 h - 12 days	1	Caution - mildew resistance may be developing. Limit use of group 3 fungicides (Indar, Nova, Topas, Jade, Mission, Quash) to 2 sprays/season. 12 days REI for thinning.
	trifloxystrobin (Flint) 30619	11	175 - 210 g	71 - 85 g	12 h - 4 days	1	Use higher rate for high disease pressure. Limit sprays of Group 11 fungicides (Flint, Cabrio, Pristine) to 2/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 from two weeks after full bloom to pit hardening at 10-14 day intervals. Do not use in combination with or within 14 days of sulphur or captan.
	sulphur (Cosavet DF Edge 31869, Kumulus 18836)	M2	7.0 kg	2.8 kg	24 h	1	
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	750g - 1 kg	304 g - 405 g	dry - 10 days	0	Limit sprays of class 11 fungicides (Flint, Cabrio, Pristine) 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.
	pyraclostrobin (Cabrio) 27323	11	670 g	270 g	12 h - 9 days	10	Use tank mixes with caution. Limit sprays of group 11 fungicides (Flint, Cabrio, Pristine) to 2/season.
<b>Notes:</b> For blocks with high mildew pressure, begin spray program no later than bloom to petal fall. For low pressure blocks, begin at husk fall. Rotate fungicide groups for resistance management. Caution - mildew resistance to group 3 fungicides (Nova, Indar, Jade, Topas, Mission, Quash) may be developing. Limit use of group 3 fungicides to 2 sprays/season on cherry. Group 11 fungicides are also at high risk for resistance.							
<b>Brown Rot</b>	fluopyram + trifloxystrobin (Luna Sensation) 32107	7+11	300-400 mL	121-162 mL	12 h	1 day	Use higher rate for high disease pressure. Rotate with fungicides from other groups. Limit use of group 11 fungicides to 2 applications per season.
	Isfetamid (Kenja 31758)	7	913 ml	369 ml	12 hrs	1	Suppression only. Apply with a silicone surfactant. Do not apply more than 2 consecutive Group 7 applications. Maximum of 3 applications per year.
	metconazole (Quash 30402)	3	175 - 245 g	71 - 99 g	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.
	chlorothalonil (Bravo ZN) 28900	M5	5.0-9.0 L	2.0-3.6 L	48 h	40	Do not apply Bravo after shuck split. Use higher rate for trees over 6 m in height.

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<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
	fenhexamid (Elevate) 25900	17	1.7 kg	690 g	4 h	1	Avoid more than 2 consecutive applications.
	propiconazole (Topas 30163, Jade 24030, Tilt 19346)	3	500 mL	200 mL	3 days	3	Caution - mildew resistance may be developing. 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.
	boscalid (Cantus) 30141	7	370 g	150 g	12 h	0	Avoid more than 2 consecutive applications.
	fenbuconazole (Indar) 27294	3	140 g	57 g	12 h	1	Caution - mildew resistance may be developing to group 3 fungicides (Indar, Nova, Topas, Jade, Tilt, Quash) so apply maximum 2 sprays/season. Rotate with fungicides from different groups.
	iprodione (Rovral) 15213	2	1.5 - 1.75 kg	610 - 710 g	12 h	1	Use higher rate of Rovral on large, mature trees.
	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	Caution - mildew resistance may be developing. 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	750g - 1 kg	304 g - 405 g	dry - 10 days	0	Limit sprays of class 11 fungicides (Flint, Cabrio, Pristine) 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 24613, (Maestro) 26408	M4	3.75 - 4.5 kg	1.5 - 1.8 kg	48 h	2	
<b>Notes:</b> Brown rot infection begins at bloom. Protect blossoms if weather is wet. Rotate fungicides for resistance management. If botrytis fruit rot has been a problem, select fungicides that also control botrytis (e.g. Elevate, Cantus, Pristine, Captan, Rovral, Bravo, Kenja).							

<b>Stage of Development: Summer</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
<b>Black Cherry Aphid</b>	afidopyropen (Versys) 33266	9D	0.1 L	0.04 L	12 hrs	7 days	Allow 7 days between applications. Do not apply more than 2 times per season. For resistance management, rotate with

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



<b>Stage of Development: Summer</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
							another insecticide group after 2 applications.
	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.
	sulfoxaflor + spinetoram (TwinGuard) 31442	4C, 5	250 g	101 g	12 h	7	Do not apply more than 2 times/season.
	malathion (Malathion 85E) 8372	1B	610-880 mL/1000 L water		1 - 3 days	3	May injure some varieties of cherries. Apply the spray mixture in sufficient volume to ensure thorough coverage. Only one application per year. Can provide up to 10 days control.
	flonicamid (Beleaf) 29796	9C	160 g	65 g	12 h-2 days	14	Experience in the field indicated there may be issues with current label rate. 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 -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. Will also control mealybugs. Spray interval: minimum 14 days.
	clothianidin (Clutch) 29382	4A	140-210 g	57-85 g	12 h	7	Do not apply more than twice/season. Spray interval: 10 to 14 days.
	mineral oil (Purespray Green) 27666	NC	10 L	4 L	12 h	0	Prevents aphids from feeding. Begin application when aphids first appear, allow 10-14 days between applications. Do not use withing 14 days before or after captan or sulphur. Post harvest sprays may be made to reduce over-wintering pressure.
	thiamethoxam (Actara) 28408	4	160	65 g	12 h	14	Do not apply more than twice/season. Highly toxic to bees. Spray interval: 10 days.
<b>Notes:</b> Avoid using Group 4 products more than twice/season for all registered uses to prevent mite problems.							
<b>Obliquebanded and Threelined Leafrollers</b>	cyclaniliprole (Harvanta 50SL) 32889	28	1.2 - 1.6 L	485 - 647 ml	12	7 days	Toxic to bees. Do not make more than 3 applications per crop year. Where possible, rotate the use of Harvanta or other Group 28 insecticides with different groups that control 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.

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

<b>Stage of Development: Summer</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
	spinosad (Success) 26835	5	182 mL	74 mL	dry	3	Do not apply more than 3 times/season. Spray interval: 7 to 10 days.
	sulfoxaflor + spinetoram (TwinGuard) 31442	4C, 5	250 - 500 g	101 - 202 g	12 h	7	Apply at first egg hatch. Do not apply more than 2 times/season. TOXIC to bees. Spray interval: 14 days.
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4.0 L	1.6 L	24 h*	0	Will also control bud moth. Spray interval: 7 days under optimal conditions.
	cyantraniliprole (Exirel) 30895	28	500-1000 mL	202-404 mL	12 h	3	Monitor adult moth flight and apply at first egg hatch. Do not tank mix with Flint, Pristine, Cabrio, copper and 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 higher rate for higher populations. Maximum 3 applications/season. May be harmful to predatory mites. Spray interval: 10 to 14 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	3	Do not apply more than 3 times per season against leafrollers. Spray interval: 7 to 10 days.
	spinetoram (Delegate) 28778	5	210-420 g	85 g -170 g	12 h	5	Do not apply more than 3 times per season. Use the higher rate under high pest pressure and/or larger larvae. Spray interval: 7 days.
	chlorantraniliprole (Altacor) 28981	28	145-285 g	59-115 g	12 h	1	Apply at first egg hatch based on pheromone trap catches and degree days after biofix. Do not apply more than 3 times per season. Spray interval: 7 to 14 days (see label).
<p><b>Notes:</b> Altacor, Delegate, Success and Bt products are stomach poisons so complete coverage is important for satisfactory control. Apply Bt 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 second treatment of Bt or another product. Optimum solution pH for Bt is 6.</p>							
<b>Spotted Wing Drosophila</b>	cyclaniliprole (Harvanta 50SL) 32889	28	1.2 - 1.6 L	485 - 647 ml	12	7 days	Toxic to bees. Do not make more than 3 applications per crop year. Where possible, rotate the use of Harvanta or other Group 28 insecticides with different groups that control the same pests.
	cypermethrin (Mako) 30316	3	150 - 175 mL	61 - 71 mL	12 hrs	2 days	Suppression of SWD. Short residual (3-5 days) when temperatures are above 25°C. May cause mite flare-ups.
	spinosad (Success) 26835	5	182 mL	74 mL	4 h	3	Begin applications when fruit begin to ripen. Will control only adult flies, NOT larvae in the fruit. Allow 7 to 10 days between applications. Do not exceed 182 mL product/ha per application (74 mL/acre); maximum 3 applications per year.
	cyantraniliprole (Exirel) 30895	28	1000-1500 mL	405-607 mL	12 h	3	Begin application when fruit begin to turn color (straw to pink). Re-apply at 7 day intervals. Do not apply more than 4

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<b>Stage of Development: Summer</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
							times/season. Will control adult flies, NOT larvae inside fruit. Do not tank mix with Flint, Pristine, Cabrio, copper or captan fungicides. Toxic to bees. Check MRL requirements for fruit exports. Spray interval: 7 to 10 days.
	malathion (Malathion 85E) 8372	1B	610-855 mL/1000 L water	247-346 ml/1000 L water	1 - 3 days	3	May be effective for 5 days. May cause leaf drop or fruit finish problems on cherries, particularly when hot, or in low water volumes. Works better at temperatures above 20°C. Only 1 application per year.
	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	5	Maximum 3 applications per season with a minimum re-treatment interval of 7 days.
<b>Notes:</b> Do not rely on Admire, Assail or GF-120 for control of SWD.							
<b>Cherry Fruit Flies</b>	cyclaniliprole (Harvanta 50SL) 32889	28	1.2 - 1.6 L	485 - 647 ml	12	7 days	Toxic to bees. Do not make more than 3 applications per crop year. Where possible, rotate the use of Harvanta or other Group 28 insecticides with different groups that control the same pests.
	dimethoate (Lagon) 9382	1B	2.25 L	910 mL		21	Will also control cherry fruitworm, pear sawfly (cherry slug) and apple mealybug. Field reports indicate EC formulations can cause severe leaf burn and leaf drop in Lapins, Sam, Skeena, Stella and Sweetheart cherry varieties. Spray interval: 14 days.
	dimethoate (Cygon) 25651	1B	2.25 L	910 mL	12 h - 20 days	21	Will also control cherry fruitworm, pear sawfly (cherry slug) and apple mealybug. Field reports indicate EC formulations can cause severe leaf burn and leaf drop in Lapins, Sam, Skeena, Stella and Sweetheart cherry varieties.
	spinosad (GF-120 Fruit Fly Bait) 28336	5	1.0-1.5 L	405-607 mL	dry	0	Apply at label rates with special equipment in a strip on one side of every row. Spray interval: 5 - 7 days in absence of rain.
	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 days.
	imidacloprid (Admire 24094, Alias 28475)	4	230 mL	93 mL	24 h	7	Do not apply more than 2 times per season. Will also control aphids and mealybug. Spray interval: minimum 10 days.
	acetamiprid (Assail) 27128	4	240 g	97 g	12 h-6 days	7	For suppression only. Do not apply more than 2 times per season. Spray interval - 12 days. REIs of 2 days for scouting

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<b>Stage of Development: Summer</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
							and 6 days is for thinning.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	7	Do not apply more than 3 times per season. Spray interval: 5 to 7 days.
	spinetoram (Delegate) 28778	5	420 g	170 g	12 h	5	For suppression only. Apply within 5 days of first fly capture. Re-apply at 7-day intervals. Maximum 3 sprays per year.
<b>Notes:</b> Entrust and GF-120 are approved for use in organic cherry blocks. Avoid using Group 4 products more than twice/season for all registered uses to prevent mite problems.							
<b>European Red Mite</b>	pyridaben (Nexter) 25135	21	300-600 g	120-240 g	24 h	7	Only one application per season. Residual control: 7-10 days.
	spirodiclofen (Envidor) 28051	23	750 mL	300 mL	12 h	7	Will also control rust mites. Spray interval: minimum 7 days.
	mineral oil (Purespray Green) 27666	NC	10 L	4 L	12 h	0	For suppression only. Begin applications when mites first appear, allow 10-14 days between applications. Do not use within 14 days of captan. Post harvest sprays help to reduce over-wintering pressure.
	bifenazate (Acramite) 27925	25	851 g	344 g	12 h	7	Begin application when mites first appear. Do not apply more than once/season. Will not control rust mites. Residual control: 21 days.
<b>Notes:</b> To avoid development of pesticide resistance, do not apply products from the same group more than once per season. 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.							
<b>McDaniel, Twospotted Spider Mites</b>	pyridaben (Nexter) 25135	21	300-600 g	120-240 g	24 h	7	Only one application per season. Residual control: 7-10 days.
	spirodiclofen (Envidor) 28051	23	750 mL	300 mL	12 h	7	Will also control rust mites. Spray interval: minimum 7 days.
	bifenazate (Acramite) 27925	25	851 g	344 g	12 h	7	Begin application when mites first appear. Do not apply more than once/season. Will not control rust mites. Residual control: 21 days.
<b>Notes:</b> To avoid development of pesticide resistance, do not apply products from the same group more than once per season. 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.							
<b>Rust Mites and Pearleaf Blister Mite</b>	spirodiclofen (Envidor) 28051	23	750 mL	300 mL	12 h	7	Will control other mites present. Spray interval: minimum 7 days.
<b>Peach Tree Borer</b>	novaluron (Rimon) 28515	15	1.4 L/ 1000 L of water	1.4 L/ 1000 L of water	12 h	14	Begin spray application 7-10 days after first trap catch. Spray tree trunk and scaffold limbs with a hand gun sprayer. Spray interval: 21 days. May harm predatory mites.
	spinetoram (Delegate) 28778	5	420 g	170	12	5	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

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<b>Stage of Development: Summer</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
							stage, beginning 7 to 10 days after first adult trap catch.
<b>Stink Bugs</b>	<b>Notes:</b> There are no registered products. Contact field advisor. Products registered for brown marmorated stink bugs (Actara and Clutch) will provide some control. Check product labels.						
<b>Brown Rot</b>	fluopyram + trifloxystrobin (Luna Sensation) 32107	7+11	300-400 mL	121-162 mL	12 h	1 day	Use higher rate for high disease pressure. Rotate with fungicides from other groups. Limit use of group 11 fungicides to 2 applications per season.
	Isofetamid (Kenja 31758)	7	913 ml	369 ml	12 hrs	1	Suppression only. Apply with a silicone surfactant. Do not apply more than 2 consecutive Group 7 applications. Maximum of 3 applications per year.
	metconazole (Quash 30402)	3	175 - 280 g	71 - 113 g	12 h - 9 days	14	For fruit brown rot apply 14-21 days before harvest. Maximum 1 application/season. REI of 9 days is for thinning.
	fenhexamid (Elevate) 25900	17	1.7 kg	690 g	4 h	1	Do not apply more than 2 consecutive applications.
	propiconazole (Topas 30163, Jade 24030, Tilt 19346)	3	500 mL	200 mL	3 days	3	Caution - mildew resistance to Group 3 fungicides may be developing. Limit use of Group 3 fungicides (Indar, Nova, Topas, Jade, Tilt, Quash) to 2 sprays/season. Rotate with fungicides from different groups.
	boscalid (Cantus) 30141	7	370 g	150 g	12 h	0	Avoid more than 2 consecutive applications.
	fenbuconazole (Indar) 27294	3	140 g	57 g	12 h	1	Caution - mildew resistance to group 3 fungicides may be developing. Limit use of group 3 fungicides (Indar, Nova, Topas, Jade, Tilt, Quash) to 2 sprays/season. Rotate with fungicides from different groups.
	iprodione (Rovral) 15213	2	1.5 - 1.75 kg	610 - 710 g	12 h	1	Use the higher rate of Rovral on large, mature trees.
	myclobutanil (Nova 40WP) 22399	3	340 g	140 g	12 h-12 days	1	Caution - mildew resistance to group 3 fungicides may be developing. 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	304 - 405 mL	dry - 10 days	0	Limit sprays of Class 11 fungicides (Flint, Cabrio, Pristine) to 2 per season for resistance management.
	penthiopyrad (Fontelis) 30331	7	1.0-1.75 L	405-709 mL	12 h	0	Do not apply more than 2 times/season. Use high rate for high disease pressure. Use minimum of 1.25 L/ha to also control botrytis.
captan (Captan Supra 24613,	M4	3.75 - 4.5 kg	1.5 - 1.8 kg	48 h	2		

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<b>Stage of Development: Summer</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
	(Maestro )26408						
<b>Notes:</b> Fruit becomes increasingly susceptible to brown rot as it ripens. Rotate fungicides for resistance management. Follow pre-harvest intervals.							
<b>Powdery Mildew (Sweet Cherries)</b>	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.
	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.
	quinoxifen (Quintec) 29755	13	500 mL	200 mL	12 h	7	Apply before visible symptoms, and at 10-14 day intervals. Do not make more than 2 consecutive applications.
	trifloxystrobin (Flint) 30619	11	175-210 g	71-85 g	12 h - 4 days	1	Use the higher rate when disease pressure is severe. Limit sprays of class 11 fungicides 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 for two weeks after full bloom to pit hardening at 10-14 day intervals. Do not use in combination with or within 14 days of sulphur or captan.
	sulphur (Cosavet DF Edge 31869, Kumulus 18836)	M2	7.0 kg	2.8 kg	24 h	1	May cause injury during hot weather.
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	750g - 1 kg	300 g - 405 g	dry - 10 days	0	Limit sprays of class 11 fungicides (Flint, Cabrio, Pristine) to 2 per season for resistance management.
	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.
	pyraclostrobin (Cabrio) 27323	11	670 g	270 g	12 h - 9 days	10	Use tank mixes with caution. Limit sprays of class 11 fungicides ( Flint, Cabrio, Pristine) to 2 per season.
<b>Notes:</b> Caution - mildew resistance to group 3 fungicides (Nova, Indar, Jade, Topas, Mission, Quash) may be developing. Limit use of group 3 fungicides to 2 sprays/season on cherry. Avoid using these products late in the season if powdery mildew is abundant. Group 11 fungicides are also at high risk for resistance.							
<b>Botrytis Rot of Cherry</b>	penthiopyrad (Fontelis) 30331	7	1.25-1.75 L	506-709 mL	12 h	0	Do not apply more than 2 times per season. Use high rate for high disease pressure.
	<b>Notes:</b> Many fungicides used for brown rot will also help to control botrytis, including Kenja, Rovral, Elevate, Pristine, Cantus and Senator. However, botrytis resistance to Rovral and Senator may be present in some orchards.						

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<b>Stage of Development: Post-Harvest</b>							
<b>Insect or Disease</b>	<b>Recommended Product Choices</b>	<b>Grp<sup>1</sup></b>	<b>Amount Per Ha</b>	<b>Amount Per Acre</b>	<b>REI<sup>2</sup></b>	<b>PHI<sup>3</sup> (days)</b>	<b>Precautions and Notes</b>
<b>Cherry Fruit Flies</b>	dimethoate (Cygon) 25651	1B	2.25 L	910 mL	12 h - 20 days	n/a	Will also control apple mealy bug, pear sawfly (cherry slug).
<b>Shothole Borer</b>	<b>Notes:</b> See description of shothole borer for cultural control options.						
<b>Mealybugs</b>	<b>Notes:</b> See notes. See description of mealybugs.						
<b>Bacterial Canker of Stone Fruits</b>	Copper hydroxide (Parasol) 25901	M1	8.8 - 13.1 L	3.5 - 5.3 L	48 hrs	2 days	Apply when 3/4 leaves have fallen. Use low rate for small trees, high rate for large trees.
	copper octanoate (Cueva Commercial) 31825	M1	Prepare 0.5-2% solution (5-20 L/1000 L water)				Apply 470-940 L of mixture/ha at 10% and 80% leaf fall (maximum 6 applications per season). See bacterial canker description.
	copper oxychloride (Copper Spray 19146)	M1	6-9 kg	2.4-3.6 kg	48 h	n/a	Apply when at least 75% leaves have fallen to protect leaf scars.
<b>Post-Harvest Rots Initiated in the Orchard</b>	Pseudomonas syringae (Bio-Save) 29673	NC	n/a	n/a	n/a	n/a	For suppression of Botrytis and Penicillium, apply post-harvest dip, drench or spray application to harvested fruit in a packinghouse. See label for details.
	fludioxonil (Scholar) 28568	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 in the packinghouse. See label for details.
<b>Powdery Mildew (Sweet Cherries)</b>	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.

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