Insect or Disease	pment: Dormant t	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup>	Precautions and Notes							
	Product Choices					(days)	The same is an analysis of the same is a same							
Ambrosia Beetle	Notes: There are cur	Notes: There are currently no registered products for controlling ambrosia beetle on apples. Good sanitation is the best management strategy. Remove												
	large wood piles and	large wood piles and prunings from the orchard. Cultural control by maintaining optimum tree vigour is important as ambrosia beetles are attracted to trees												
		weakened by drought, transplanting, disease, etc. See description of ambrosia beetles for more information on the life cycle and methods to intercept												
	female beetles flying			T			T							
Fire Blight	hydrogen peroxide +	NC	1 L/100 L of water	1 L/1000 L of water	4 h	0	Partial suppression. Start foliar/branch/stem applications							
	peroxyacetic acid		(1% solution)	(1% solution)			before the disease occurs or at the first sign of disease							
	(Oxidate 2.0) 32907						and/or when weather conditions are favourable for disease							
							development. Apply diluted spray to the point of run-off to achieve full and even coverage.							
	bacillus mycoides	P 06	0.33 g per L of water	0.33 g per L of water	4 h	0	Do not apply less than 70 grams or more than 333 grams pe							
	isolate J (LifeGard						hectare. Begin applications when green tissue is present,							
	WG) 32526						prior to infection period. For suppression of shoot blight, star							
	,						applications after petal fall. Foliar applications only. Do not							
							apply during the bloom period (from pink stage to petal fall).							
							Do not apply to apple by chemigation.							
	garlic powder	NC	1.4% (500 to 800 L	1.4% (202 to 323 L		0	Apply before wetting events when conditions are conducive							
	(Buran) 30601		of water)	of water)			to infection; reapply as needed. The addition of a registered							
							non-ionic surfactant such as Agral 90 or AgSurf at a rate of							
		<b></b>	4-1	4.01	10.1		0.1% could help to improve the spreading.							
	Copper hydroxide (Parasol) 25901	M1	4.7 L	1.9 L	48 hrs	2 days	Apply in sufficient water for complete coverage. Max. two							
	copper octanoate	M1	Prepare 0.5-2%		4 h	1	applications per year.  Apply 470-940 L of mixture/ha (190-380 L/acre) as a							
	(Cueva Commercial)	'''	solution (5-20		'''	'	dormant spray as buds begin to swell, repeating at the bud							
	31825		L/1000 L water)				burst stage, and weekly thereafter as needed, up to six							
	0.020		2 1000 2 Water)				sprays. Remove cankers by March 31. See fire blight							
							description. The higher rate for dormant sprays is more likely							
							to be effective.							
	copper oxychloride	M1	4kg	1.6kg	48 h	n/a	Remove cankers by March 31. See fire blight description.							
	(Copper Spray													
	19146)													

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

Stage of Develo	pment: Silver Tip	to Gre	en Tip				
Insect or Disease	Recommended	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup>	Precautions and Notes
	Product Choices					(days)	
Apple Scab	copper hydroxide (Kocide 2000-O) 33441	M	0.84-1.96 kg	0.34-0.79 kg	48 h	2 days	Apply as a full cover spray for early season disease suppression. Use the higher rate when conditions favour disease progression. Moderate to severe crop injury may occur from late application; discontinue use when green-tip reaches 1/2 inch. Requires pesticide applicator certificate.
Fire Blight	copper hydroxide (Kocide 2000-O) 33441	M	0.56-0.84 kg	0.23-0.34 kg	48 h	2 days	Apply as a full cover spray for early season disease suppression. Use the higher rate when conditions favour disease progression. Moderate to severe crop injury may occur from late application; discontinue use when green-tip reaches 1/2 inch. Requires pesticide applicator certificate.

Insect or Disease	oment: 15 mm Gr	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup>	Precautions and Notes
insect of Disease	Product Choices	Gip	Alliount Per na	Amount Per Acre	KEI	(days)	
Rosy Apple Aphid	afidopyropen (Versys) 33266	9D	0.1 L	0.04 L	12 hrs	7 days	Allow 7 days between applications. Do not apply more than 4 times per season. For resistance management, rotate with another insecticide group after 2 applications.
	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.
Apple Aphid	afidopyropen (Versys) 33266	9D	0.1 L	0.04 L	12 hrs	7 days	Allow 7 days between applications. Do not apply more than 4 times per season. For resistance management, rotate with another insecticide group after 2 applications.
	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.
Woolly Apple Aphid	sulfoxaflor (Closer) 30826	4C	400 mL	162 mL	12 h	7	Suppression only. Do not apply more than 2 times/season.  Spray interval: minimum 7 days.
Apple Leaf Curling Midge	spinetoram (Delegate) 28778	5	420 g	170 g	12 h	7	Toxic to bees. Do not apply to flowering crops or weeds if bees are visiting the treatment area. Maximum 3 applications per year. Application interval: 17 days.
San Jose Scale	mineral oil (Superior 70) 14981	NC	60 L	24 L	12 h	n/a	Apply once at green tip to 1 cm green stage. Do not use prior to or during freezing temperatures or rain. May cause bark damage on Red Delicious.
	mineral oil (Guardsman) 23370	NC	90 L	36 L	12 h	n/a	Apply once at green tip to 1 cm green stage. Do not use prior to or during freezing temperatures or rain. May cause bark damage on Red Delicious.
	mineral oil (Purespray Green)	NC	20L/1000 L of Water	20L/1000 L of Water	12 h	0	Apply once at green tip to 1 cm green stage. Do not use prior to or during freezing temperatures or rain. May cause bark

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	27666						damage on Red Delicious.
European Red Mite	mineral oil (Superior 70) 14981	NC	60 L	24 L	12 h	n/a	Apply once at green tip to 1 cm green stage. Do not use prior to or during freezing temperatures or rain. May cause bark damage on Red Delicious.
	mineral oil (Guardsman) 23370	NC	90 L	36 L	12 h	n/a	Apply once at green tip to 1 cm green stage. Do not use prio to or during freezing temperatures or rain. May cause bark damage on Red Delicious.
	mineral oil (Purespray Green) 27666	NC	20L/1000 L of Water		12 h	0	Apply once at green tip to 1 cm green stage. Do not use prior to or during freezing temperatures or rain. May cause bark damage on Red Delicious.
	Notes: Dormant oil is	s very im	portant for integrated	mite control program.			
Apple Scab	ipflufenoquin (Migiwa 20 SC) 35443	52	165 - 220 ml	66.8 - 89 ml	12 h	7 days	Make first application at green tip stage. The retreatment interval is 7 to 10 days. Do not make more than two sequential applications.
	mancozeb (Dithane Rainshield) 20553	M3	2-6 kg	0.81 - 2.4 kg	12 h - 35 d	77	Do not apply more than 24 kg/ha/year (18 kg a.i./ha//year of Dithane Rainshield Fungicide (e.g., 4 applications per year at 6.0/kg/ha or 8 applications at 3.0 kg/ha OR 12 applications at 2.0 kg/ha).
	impyrfluxam (Excalia Fungicide)	7	146 - 219 ml/ha	59 - 88.6 ml/ac	12 h	Petal fall	Green tip to petal fall only.
	hydrogen peroxide + peroxyacetic acid (Oxidate 2.0) 32907	NC	1 L/100 L of water (1% solution)	1 L/1000 L of water (1% solution)	4 h	0	Partial suppression. Start foliar/branch/stem applications before the disease occurs or at the first sign of disease and/or when weather conditions are favourable for disease development. Apply diluted spray to the point of run-off to achieve full and even coverage.
	extract of Swinglea glutinosa (EcoSwing) 35206	BM 01	1.75 - 2.35 L	0.71 - 0.95 L	4 h	0	Repeat application if measurable rain occurs within 2 to 3 hours of spraying.
	garlic powder (Buran) 30601	NC	9 L/500 L of water	9 L/500 L of water		0	The maximum rate of product in a single application is 18 L/ha. This product does not have protectant activity. It should be used as a post-infection treatment, applied after rainfall or when conditions are conducive to disease development.  Application interval: before 350 degree hours (base 0 degrees C) after the beginning of the infection.
	pyraziflumid (Parade) 34526	7	227-340 ml	92-138 ml	12 h	7 days	Do not apply more than 2 consecutive applications of Parade or other group 7 fungicides before switching to a non-group 7 fungicide.
	sulphur (Cosavet DF	M2	7.0 kg	2.8 kg	24 h	1	Do not apply sulphur in combination with, immediately

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

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
	Edge 31869, Kumulus 18836, Microthiol 29487						before, or closely following oil sprays.
	pyraclostrobin + fluxapyroxad (Merivon) 33951	7 + 11	0.3 - 0.4 L	0.12 - 0.16 L	12 h - 12 days	5 days (hand harvest)	Limit sprays of Group 11 fungicides to 2 sprays/season. REI's: hand thinning - 12 days, hand harvesting - 5 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 - 10 days if disease persists or weather conditions are favourable for disease development.
	Isofetamid (Kenja) 31758	7	913 ml	369 ml	12 hours	20	Do not apply more than 2 consecutive Group 7 applications Application interval: 10 to 14 days.
	benzovindiflupyr + difenoconazole (Aprovia Top) 31526	3+7	386 - 643 mL	156 - 260 mL		30	Tank mix with protectant fungicide for improved fruit scab control. Use high rate for mildew. Rotate with other fungicid groups for resistance management. Do not apply more tha 2.57 L/ha/season.
	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). Do not exceed 1% rate for varieties susceptible to russeting. Repe every 7-10 days as long as weather conditions favour disease development.
	benzovindiflupyr (Aprovia) 31981	7	300-500 mL	121-202 mL	12 h	30	For improved fruit scab control, tank mix with a protectant fungicide (see label). Rotate with other non-Group 7 products. Do not apply in two consecutive sprays nor more than 2 L/ha (1.0 L/acre) per season.
	fluxapyroxad (Sercadis) 31697	7	167-333 mL	68-135 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 blossor if conditions for disease development persist. Maximum amount per season: 1.33 L/ha (538 mL/acre). Maximum applications per season.
	fluazinam (Allegro) 27517	29	0.50-1.0 L	202-404 mL	24 h-3 days	28	Use highest rates and shortest intervals for high disease pressure. Will also suppress European red mite, apple rus mite and two spotted spider mites. 3 days REI for thinning
	difenoconazole + cyprodinil (Inspire Super) 30827	3+9	560 - 836 mL	227 - 338 mL	12 h	14	Limit sprays of Group 3 fungicides (Nova, Inspire, Fullback to 2 times/season. Tank mix with a protectant fungicide (Dithane, Manzate, Polyram, captan) for resistance

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
							management.
	pyrimethanil (Scala) 28011	9	0.75 - 1.0 L	304 - 405 mL	12 h-24 h	14	Do not use for apple scab after bloom. 24 hour REI for thinning.
	flutriafol (Fullback) 31679	3	950 mL	385 mL	12 h	14	Tank mix with the full rate of a protectant (e.g. Dithane. Manzate, Polyram, Captan, Maestro). Limit sprays of group fungicides (Nova, Inspire, Fullback) to 2 times/season for resistance management.
	myclobutanil (Nova 40WP) 22399	3	340 g	140 g	12 h-12 days	14	Tank mix with the full rate of Dithane, Manzate, Polyram, Captan, or Maestro. Limit sprays of group 3 fungicides (Nova, Inspire, Fullback) to 2/season for resistance management. 12 days REI for thinning.
	kresoxim-methyl (Sovran) 26257	11	360 g	150 g	48 h	30	Caution: drift may injure cherries. Limit sprays of group 11 fungicides (Flint, Sovran, Pristine) to 2 per season.
	trifloxystrobin (Flint Extra Fungicide) 34962	11	140 - 175g	57 - 71 g	12 h – 4 days	14	Avoid more than 2 consecutive sprays. Limit sprays of Group 11 fungicides (Flint, Sovran, Pristine) to 2/season. 4 days REI for thinning.
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	1.0 - 1.2 kg	405 g - 485 g	dry – 12 days	5	Avoid more than 2 consecutive applications. Limit sprays of Group 11 fungicides (Flint, Sovran, Pristine) to 2 per season 12 days REI for thinning.
	penthiopyrad (Fontelis) 30331	7	1.0-1.5 L	405-607 mL	12 h	28	Do not apply more than 3 times per season, or more than twice sequentially. Use high rate for high disease pressure.
	fluopyram pyrimethanil (Luna Tranquility) 30510	7 + 9	800 mL	323 mL	12 h	14	Do not apply more than 2 times per season.
	mancozeb (Manzate 28217, Penncozeb 30241 and 25397)	M3	6.0kg	2.4 kg	12 h - 35 d	77	Do not apply more than 4 applications per year. Apply at a minimum of the 7-day interval.
	copper oxychloride (Copper Spray 19146)	M1	300 - 500 g/ha	121 - 202 g/ha	48 h	2 days	Maximum number of applications: 6. Reapply if needed as indicated by monitoring.
	captan (Captan Supra 33641, Maestro 33488)	M4	3 kg	1.2 kg	2 - 24 d	7	Do not apply Captan in combination with, immediately before, or closely following oil sprays. Do not use it during bloom. Early-season sprays may cause necrotic spotting to foliage of sensitive varieties. Apply at a minimum of a 7-day interval.

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	pment: 15 mm Gr					3	
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
Powdery Mildew (Apples)	ipflufenoquin (Migiwa 20 SC) 35443	52	165 - 220 ml	66.8 - 89 ml	12 h	7 days	The 165 ml/ha rate provides suppression of powdery milder If disease pressure is moderate or high or if control is required, use the 220 ml/ha rate. The retreatment interval is 7 to 10 days. Do not make more than two sequential applications.
	impyrfluxam (Excalia Fungicide)	7	146 - 219 ml/ha	59 - 88.6 ml/ac	12 h	Petal fall	Green tip to petal fall only. Application must include a 100% organosilicone adjuvant, such as Xiameter, at 31.3 - 62.5 ml/100 L water.
	hydrogen peroxide + peroxyacetic acid (Oxidate 2.0) 32907	NC	1 L/100 L of water (1% solution)	1 L/100 L of water (1% solution)	4 h	0	Start foliar/branch/stem applications before the disease occurs or at the first sign of disease and/or when weather conditions are favourable for disease development. Apply diluted spray to the point of run-off to achieve full and evel coverage.
	garlic powder (Buran) 30601	NC	9 L/500 to 800 L of water	9 L/500 to 800 L of water		0	Disease control can be achieved under low to moderate disease pressure. Begin applications when conditions are conducive to disease development. The addition of a registered non-ionic surfactant such as Agral 90 or AgSurf a rate of 0.1% could help to improve the spreading.
	pyraziflumid (Parade) 34526	7	227-340 ml	92-138 ml	12 h	7 days	Do not apply more than 2 consecutive applications of Paracon or other group 7 fungicides before switching to a non-group fungicide.
	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	Do not apply sulphur in combination with, immediately before, or closely following oil sprays.
	flutianil (Gatten) 34297	U 13	440 - 590 ml	178 - 239 ml	24 hours	14 days	Use a higher rate and shorter spray interval under high disease pressure. Use water volumes of 280 - 935 litres p hectare for concentrate sprays and 936 - 1870 litres per hectare for dilute sprays. Max number of applications pe year: 4. Apply to foliage during the fruiting stage.
	pyraclostrobin + fluxapyroxad (Merivon) 33951	7 + 11	0.3 - 0.4 L	0.12 - 0.16 L	12 h - 12 days	5 days (hand harvest)	Limit sprays of Group 11 fungicides to 2 sprays/season. REI's: hand thinning - 12 days, hand harvesting - 5 days mechanical harvesting and all other activities - 12 hours.
	Mineral oil (Suffoil- X) 33099	NC	10 L/1000 L of water	10 L/1000 L of water	12 hours	0	Test for crop tolerance before widespread use. Apply at tig cluster and continue every 10-14 days. Avoid application

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
							during bloom. Do not use within 14 days before or after captan fungicide. Do not apply more than 8 applications per year.
	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 - 10 days if disease persists or weather conditions are favourable for disease development.
	Polyoxin D Zinc Salt (Diplomat 5SC) 32918	19	259 - 926 ml	104 - 374 ml		0 days	Suppression of powdery mildew. Begin as a preventative application when conditions favour disease development, 7 14 day spray interval. Number of applications: 3-10 depending on rate.
	benzovindiflupyr + difenoconazole (Aprovia Top) 31526	3+7	643 mL	260 mL	12 h	30	Rotate with other fungicides that do not contain Group 3 or Group 7 fungicides for resistance management. Do not apply more than 2 consecutive applications.
	benzovindiflupyr (Aprovia) 31981	7	500 mL	202 mL	12 h	30	Rotate with other non-Group 7 products. Do not apply in two consecutive sprays nor more than 2 L/ha (1.0 L/acre) per season.
	fluxapyroxad (Sercadis) 31697	7	167-333 mL	68-135 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 blossor if conditions for disease development persist. Maximum amount per season: 1.33 L/ha (538 mL/acre). Maximum 4 applications per season.
	difenoconazole + cyprodinil (Inspire Super) 30827	3+9	836 mL	338 mL	12 h	14	Suppression of powdery mildew. Limit use of group 3 fungicides (Nova, Inspire, Fullback) to 2 sprays/season.
	flutriafol (Fullback) 31679	3	585 - 877 mL	237 - 355 mL	12 h	14	Limit use of group 2 fungicides (Nova, Inspire, Fullback) to 2 sprays/season. Rotate with fungicides from other groups.
	potassium bicarbonate (MilStop) 28095	NC	2.8 - 5.6 kg	1.13 - 2.27 kg	4 h	0	For best protection, repeat at one or two-week intervals as indicated until conditions are no longer favourable for disease development. Shorten the application interval to 7 days during rainy weather or during periods of high relative humidity.
	myclobutanil (Nova 40WP) 22399	3	340 g	140 g	12 h-12 days	14	Limit use of Group 3 fungicides (nova, Inspire) to 2 sprays per season. Rotate with fungicides from other groups. 12 days REI for thinning.

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	kresoxim-methyl (Sovran) 26257	11	240 - 450 g	100 - 182 g	48 h	30	Use high rate for high disease pressure. Limit sprays of group 11 fungicides to 2 per season. Caution: drift may injur cherries.
	trifloxystrobin (Flint Extra Fungicide) 34962	11	140 - 210 g	57 - 85 g	12 h–4 days	14	Use the higher rate during pink to bloom stages. Limit sprays of group 11 fungicides (Flint, Sovran, Pristine) to 2 per season. 4 days REI for thinning.
	thiophanate-methyl (Senator 50SC) 32096	1	3.15 L	1.27 L	24 h*	1	May harm predatory mites. Maximum 2 applications per season.
	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 tight cluster and repeat at 10-14 day intervals. Do not use in combination with or within 14 days of sulphur, Kumulus, Microthiol or captan. Do not apply during freezing temperatures.
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	1.0 - 1.2 kg	405 - 485 g	dry to 12 days	5	Avoid more than 2 consecutive applications. Limit sprays of Group 11 fungicides (Flint, Sovran, Pristine) to 2 per seasor 12 days REI for thinning.
	penthiopyrad (Fontelis) 30331	7	1.0-1.5 L	405-607 mL		28	Do not apply more than 3 times per season, or more than twice sequentially. Use high rate for high disease pressure.
	fluopyram pyrimethanil (Luna Tranquility) 30510	7+9	600 mL	242 mL	12 h	14	Use as preventative treatment. Do not apply more than 2 times/season.

Stage of Develo	pment: Pink						
Insect or Disease	Recommended	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup>	Precautions and Notes
	Product Choices					(days)	
Eyespotted Bud	Chlorantraniliprole	28	73 - 143 g	30 - 58 g	12 h	5	Apply at pink to petal fall when larvae are active. Do not
Moth	(Altacor MaX) 34654						apply more than 3 times per season. Spray interval - 10 to 14
							days.
	cyantraniliprole	28	500- 1000 mL	202- 404 mL	12 h	3	Apply when larvae are active. Do not apply more than 4
	(Exirel) 30895						times per season. Do not tank mix with Flint, Sovran,
							Pristine, copper or captan. Toxic to bees. Spray interval: 10
							to 14 days.
	spinetoram	5	210-420 g	85-170 g	12 h	7	Apply when larvae are active. Use the higher rate under high
	(Delegate) 28778						pest pressure and/or larger larvae. Spray interval: 14 days.

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	chlorantraniliprole (Altacor) 28981	28	145-285 g	59-115 g	12 h	5	Apply at pink to petal fall when larvae are active. Do not apply more than 3 times per season. Spray interval - 10 to 14 days.
Green Fruitworms	Chlorantraniliprole (Altacor MaX) 34654	28	73 - 108 g	30 - 44 g	12 h	5	Repeat if necessary at petal fall. Do not apply more than 3 times per season. Spray interval - 10 to 14 days.
	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.
	chlorantraniliprole (Altacor) 28981	28	145-215 g	59-87 g	12 h	5	Repeat if necessary at petal fall. Do not apply more than 3 times per season. Spray interval - 10 to 14 days.
Obliquebanded and Threelined Leafrollers	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.
	Bacillus thuringiensis (Dipel 2X DF) 26508	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Will also control other leaf-feeding larvae present.
	tebufenozide (Confirm) 24503	18	1.0 L	405 mL	dry - 12 h	14	Confirm should only be used if leafroller damage was low to moderate at harvest the previous season. Spray interval: 10 to 14 days.
Codling Moth	pheromone (Isomate CM Flex) 31589	NC	1000	400	n/a	0	Dispensers must be hung before expected first emergence of moths.
	pheromone (Isomate CM/LR TT) 28814	NC	750	300	n/a	0	Also controls leafrollers.
	pheromone (Isomate C+) 22899	NC	1000	400	n/a	0	Dispensers must be hung before expected first emergence o moths.
							ions for dispenser rates and application to trees.
Powdery Mildew (Apples)	pyriofenone (Property 300SC) 32534	50	0.3 - 0.366 L	0.121 - 0.148 L	12 h	14 days	Do not apply more than 1.464 L/ha a year. Do not make more than 2 sequential applications of product or other Group 50 fungicide before rotating to a fungicide with a different MOA. Do not apply Pyriofenone to the following

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

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
							varieties: Macoun; SnowSweet; or Baldwin. Pyriofenone is safe on most commercial apple varieties; however, it has not been tested on all varieties or in all application mixtures. To ensure crop safety, treat a single tree of each variety with Pyriofenone or any mixture containing Pyriofenone before applying to the entire orchard.
	ipflufenoquin (Migiwa 20 SC) 35443	52	165 - 220 ml	66.8 - 89 ml	12 h	7 days	The 165 ml/ha rate provides suppression of powdery mildew If disease pressure is moderate or high or if control is required, use the 220 ml/ha rate. The retreatment interval is 7 to 10 days. Do not make more than two sequential applications.
	impyrfluxam (Excalia Fungicide)	7	146 - 219 ml/ha	59 - 88.6 ml/ac	12 h	Petal fall	Green tip to petal fall only. Application must include a 100% organosilicone adjuvant, such as Xiameter, at 31.3 - 62.5 ml/100 L water.
	hydrogen peroxide + peroxyacetic acid (Oxidate 2.0) 32907	NC	1 L/100 L of water (1% solution)	1 L/100 L of water (1% solution)	4 h	0	Start foliar/branch/stem applications before the disease occurs or at the first sign of disease and/or when weather conditions are favourable for disease development. Apply diluted spray to the point of run-off to achieve full and even coverage.
	garlic powder (Buran) 30601	NC	9 L/500 to 800 L of water	9 L/500 to 800 L of water		0	Disease control can be achieved under low to moderate disease pressure. Begin applications when conditions are conducive to disease development. The addition of a registered non-ionic surfactant such as Agral 90 or AgSurf a a rate of 0.1% could help to improve the spreading.
	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	Do not apply sulphur in combination with, immediately before, or closely following oil sprays. See description of powdery mildew.
	flutianil (Gatten) 34297	U 13	440 - 590 ml	178 - 239 ml	24 hours	14 days	Use a higher rate and shorter spray interval under high disease pressure. Use water volumes of 280 - 935 litres per hectare for concentrate sprays and 936 - 1870 litres per hectare for dilute sprays. Max number of applications per year: 4. Apply to foliage during the fruiting stage.
	pyraclostrobin + fluxapyroxad	7 + 11	0.3 - 0.4 L	0.12 - 0.16 L	12 h - 12	5 days (hand	Limit sprays of Group 11 fungicides to 2 sprays/season. REI's: hand thinning - 12 days, hand harvesting - 5 days,

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	(Merivon) 33951				days	harvest)	mechanical harvesting and all other activities - 12 hours.
	Mineral oil (Suffoil- X) 33099	NC	10 L/1000 L of water	10 L/1000 L of water	12 hours	0	Test for crop tolerance before widespread use. Apply at tigh cluster and continue every 10-14 days. Avoid application during bloom. Do not use within 14 days before or after captan fungicide. Do not apply more than 8 applications per year.
	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 - 10 days if disease persists or weather conditions are favourable for disease development.
	Polyoxin D Zinc Salt (Diplomat 5SC) 32918	19	259 - 926 ml	104 - 374 ml		0 days	Suppression of powdery mildew. Begin as a preventative application when conditions favour disease development, 7 14 day spray interval. Number of applications: 3-10 depending on rate.
	benzovindiflupyr + difenoconazole (Aprovia Top) 31526	3+7	643 mL	260 mL	12 h	30	Rotate with other fungicides that do not contain Group 3 o Group 7 fungicides for resistance management. Do not app more than 2 consecutive applications.
	benzovindiflupyr (Aprovia) 31981	7	500 mL	202 mL	12 h	30	Rotate with other non-Group 7 products. Do not apply in two consecutive sprays nor more than 2 L/ha (1.0 L/acre) per season.
	fluxapyroxad (Sercadis) 31697	7	167-333 mL	68-135 mL	12 h	0	The use of a non-ionic surfactant (0.125%) is recommende Begin treatment when conditions favour disease development. Apply a second spray 7-14 days up to blosso if conditions for disease development persist. Maximum amount per season: 1.33 L/ha (538 mL/acre). Maximum 4 applications per season.
	difenoconazole + cyprodinil (Inspire Super) 30827	3+9	836 mL	338 mL	12 h	14	Suppression of powdery mildew. Limit use of group 3 fungicides (Nova, Inspire, Fullback, Inspire Super) to 2 sprays/season.
	flutriafol (Fullback) 31679	3	585 - 877 mL	237 - 355 mL	12 h	14	Rotate with fungicides from other groups. Limit use of grou 3 fungicides (Nova, Inspire, Fullback) to 2 sprays/season.
	potassium bicarbonate (MilStop) 28095	NC	2.8 - 5.6 kg	1.13 - 2.27 kg	4 h	0	For best protection, repeat at one or two-week intervals as indicated until conditions are no longer favourable for disease development. Shorten the application interval to a days during rainy weather or during periods of high relative humidity.

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	Bacillus subtilis (Serenade Opti) 31666	44	1.7-3.3 kg	0.69-1.3 kg	24 h*	0	Suppression only. Apply preventatively at 7- to 10-day intervals.
	calcium polysulphide (Lime sulphur 30%) 16465	M2	9 L/1000 L	9 L/1000 L	48 h	n/a	Lime sulphur may injure "sulphur shy" varieties. May cause injury during hot temperatures. May harm predatory mites.
	myclobutanil (Nova 40WP) 22399	3	340 g	140 g	12 h - 12 days	14	Rotate with fungicides from other group. Limit use of group 3 fungicides (Nova, Inspire, Fullback) to 2 sprays/season.
	kresoxim-methyl (Sovran) 26257	11	240 - 450 g	100 - 182 g	48 h	30	CAUTION: Sovran drift may injure cherries. Use higher rate during pink stage. Limit sprays of group 11 fungicides (Flint, Sovran, Pristine) to 2/season.
	trifloxystrobin (Flint Extra Fungicide) 34962	11	140 - 210 g	57 - 85 g	12 h – 4 days	14	Use the higher rate from pink to Bloom stages. Limit sprays of group 11 fungicides (Flint, Sovran, pristine) to 2 sprays/season. 4 days REI for thinning.
	thiophanate-methyl (Senator 50SC) 32096	1	3.15 L	1.27 L	24 h*	1	May harm predatory mites. Maximum 2 applications per season.
	mineral oil (Purespray Green) 27666	NC	10L	4 L	12 h	0	For suppression of powdery mildew, apply in a minimum of 1000 L water/ha at tight cluster and repeat at 10-14 day intervals. Do not use in combination with or within 14 days o sprays containing sulphur or captan.
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	1.0 - 1.2 kg	405 g - 485 g	dry to 12 days	5	Avoid more than 2 consecutive applications. Limit sprays of Group 11 fungicides (Flint, Sovran, Pristine) to 2 per season Caution: Sovran drift may injure cherries. 12 days REI for thinning.
	penthiopyrad (Fontelis) 30331	7	1.0-1.5 L	405-607 mL	12 h	28	Do not apply more than 3 times per season, or more than twice sequentially. Use high rate for high disease pressure.
	fluopyram pyrimethanil (Luna Tranquility) 30510	7+9	600 mL	242 mL	12 h	14	Use preventatively. Do not apply more than 2 times per season.
	Notes: Rotate fungio	ides fron	n different groups for i	resistance manageme	nt.		
Apple Scab	ipflufenoquin (Migiwa 20 SC) 35443	52	165 - 220 ml	66.8 - 89 ml	12 h	7 days	Make first application at green tip stage. The retreatment interval is 7 to 10 days. Do not make more than two sequential applications.
	mancozeb (Dithane Rainshield) 20553	M3	2-6 kg	0.81 - 2.4 kg	12 h - 35 d	77	Do not apply more than 24 kg/ha/year (18 kg a.i./ha//year of Dithane Rainshield Fungicide (e.g., 4 applications per year a 6.0/kg/ha or 8 applications at 3.0 kg/ha OR 12 applications a

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
							2.0 kg/ha).
	impyrfluxam (Excalia Fungicide)	7	146 - 219 ml/ha	59 - 88.6 ml/ac	12 h	Petal fall	Green tip to petal fall only.
	hydrogen peroxide + peroxyacetic acid (Oxidate 2.0) 32907	NC	1 L/100 L of water (1% solution)	1 L/1000 L of water (1% solution)	4 h	0	Partial suppression. Start foliar/branch/stem applications before the disease occurs or at the first sign of disease and/or when weather conditions are favourable for disease development. Apply diluted spray to the point of run-off to achieve full and even coverage.
	extract of Swinglea glutinosa (EcoSwing) 35206	BM 01	1.75 - 2.35 L	0.71 - 0.95 L	4 h	0	Repeat application if measurable rain occurs within 2 to 3 hours of spraying.
	garlic powder (Buran) 30601	NC	9 L/500 L of water	9 L/500 L of water		0	The maximum rate of product in a single application is 18 L/ha. This product does not have protectant activity. It should be used as a post-infection treatment, applied after rainfall or when conditions are conducive to disease development.  Application interval: before 350 degree hours (base 0 degrees C) after the beginning of the infection.
	sulphur (Cosavet DF Edge 31869, Kumulus 18836, Microthiol 29487	M2	7.0 kg	2.8 kg	24 h	1	Do not apply sulphur in combination with, immediately before, or closely following oil sprays.
	pyraclostrobin + fluxapyroxad (Merivon) 33951	7 + 11	0.3 - 0.4 L	0.12 - 0.16 L	12 h - 12 days	5 days (hand harvest)	Limit sprays of Group 11 fungicides to 2 sprays/season. REI's: hand thinning - 12 days, hand harvesting - 5 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 - 10 days if disease persists or weather conditions are favourable for disease development.
	Isofetamid (Kenja) 31758	7	913 ml	369 ml	12 hours	20	Do not apply more than 2 consecutive Group 7 applications.  Application interval: 10 to 14 days.
	benzovindiflupyr + difenoconazole (Aprovia Top) 31526	3+7	386 - 643 mL	156 - 260 mL	12 h	30	Tank mix with protectant fungicide for improved fruit scab control. Use high rate for mildew. Rotate with other fungicide groups for resistance management. Do not apply more than 2.57 L/ha/season.
	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). Do not exceed 1% rate for varieties susceptible to russeting. Repeat

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	31825		L/1000 L water)				every 7-10 days as long as weather conditions favour disease development.
	benzovindiflupyr (Aprovia) 31981	7	300-500 mL	121-202 mL	12 h	30	For improved fruit scab control, tank mix with a protectant fungicide (see label). Rotate with other non-Group 7 products. Do not apply in two consecutive sprays nor more than 2 L/ha (1.0 L/acre) per season.
	fluxapyroxad (Sercadis) 31697	7	167-333 mL	68-135 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 blossor if conditions for disease development persist. Maximum amount per season: 1.33 L/ha (538 mL/acre). Maximum 4 applications per season.
	fluazinam (Allegro) 27517	29	0.50 - 1.0 L	202 - 404 mL	24 h-3 days	28	Use highest rates and lowest intervals for high disease pressure. Will also suppress European red mite, two-spotted spider mite, and apple rust mite. 3 days REI for thinning.
	difenoconazole + cyprodinil (Inspire Super) 30827	3+9	560 - 836 mL	227 - 338 mL	12 h	14	Limit sprays of group 3 fungicides (Nova, Inspire, Fullback) to 2/season. Tank mix with a protectant fungicide (e.g. Dithane, Manzate, Polyram, Captan, maestro) for resistance management.
	pyrimethanil (Scala) 28011	9	0.75-1.0 L	304-405 mL	12 h-24 h	14	Do not use after bloom for for apple scab. 24 hour REI for thinning.
	flutriafol (Fullback) 31679	3	950 mL	385 mL	12 h	14	Tank mix with full rate of a protectant (e.g. Dithane, Manzate Polyram, Captan, Maestro). Limit sprays of group 3 fungicides (Nova, Inspire, Fullback) to 2 sprays/season for resistance management.
	myclobutanil (Nova 40WP) 22399	3	340 g	140 g	12 h-12 days	14	Tank mix with the full rate of Dithane, Manzate, Polyram, Captan or Maestro. Limit sprays of group 3 fungicides (Nova Inspire) to 2/season for resistance management. 12 days REI for thinning.
	kresoxim-methyl (Sovran) 26257	11	360 g	150 g	48 h	30	CAUTION: Drift may injure cherries. Limit sprays of group 1 fungicides (Flint, Sovran, Pristine) to 2/season.
	trifloxystrobin (Flint Extra Fungicide) 34962	11	140 - 175 g	57 - 71 g	12 h – 4 days	14	Avoid more than 2 consecutive sprays. Limit sprays of Grou 11 fungicides (Flint, Sovran, Pristine) to 2/season.
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	1.0 - 1.2 kg	405 g - 485 g	dry to 12 days	5	Avoid more than 2 consecutive applications. Limit sprays o Group 11 fungicides (Flint, Sovran, Pristine) to 2/season. 12 days REI for thinning.
	penthiopyrad	7	1.0-1.5 L	405-607 mL	12 h	28	Do not apply more than 3 times per season, or more than

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t Per Ha Amount Per Acre	se Recommended Grp <sup>1</sup> Amount Per I Product Choices	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	(Fontelis) 30331			twice sequentially. Use high rate for high disease pressure.
0 mL 323 mL	fluopyram 7 + 9 800 mL pyrimethanil (Luna Tranquility) 30510	12 h	14	Do not apply more than 2 times per season.
2.4 kg	mancozeb (Manzate M3 6.0 kg 28217, Penncozeb 30241 and 25397)	12 h - 35 d	77	Do not apply more than 4 applications per year. Apply at a minimum of the 7-day interval.
500 g/ha 121 - 202 g/ha	copper oxychloride M1 300 - 500 g/h (Copper Spray 19146)	48 h	2 days	Maximum number of applications: 6. Reapply if needed as indicated by monitoring.
kg 1.2 kg	captan (Captan M4 3 kg Supra 33641, Maestro 33488)	2 - 24 days	7	Do not apply Captan in combination with, immediately before, or closely following oil sprays. Do not use it during bloom. Early-season sprays may cause necrotic spotting to foliage of sensitive varieties. Apply at a minimum of a 7-day interval.
risk period for scab infection. Prev	<b>Notes:</b> Pink through petal fall is a high risk per period.	ent infec	tion by kee	eping trees covered with protectant fungicides during this
	period.	in a preventative program. Howev	n a preventative program. However they c	n a preventative program. However they can be use

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
Fruittree and European Leafrollers	Bacillus thuringiensis (Bioprotec PLUS) 32425	11	1.8-2.5 L	0.7-1.3 kg	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	See Notes. 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 also control other leaf-feeding larvae present.
	Bacillus thuringiensis (Foray) 24978	11	4.0 L	1.6 L	24 h*	0	Will also control bud moth.

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
							ternoon or on a cloudy day when no rain is forecast for 24
						ct. Wait 7	days (in the absence of rain) before applying a second
	treatment of Bt or and	ther pro	duct. Optimum solution				
Green Fruitworms	Bacillus	11	1.8-2.5 L	0.7-1.3 L	24 h*	0	Will also control other leaf-feeding larvae present. See
	thuringiensis						Notes.
	(Bioprotec PLUS)						
	32425						
	Bacillus	11	4.0 L	1.6 L	24 h*	0	Will also control bud moth. Spray interval: 7 days under
	thuringiensis						optimal conditions.
	(Bioprotec CAF)						
	26854						
	Bacillus	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Will also control bud moth.
	thuringiensis (Dipel						
	2X DF) 26508						
	Bacillus	11	4.0 L	1.6 L	24 h*	0	Will also control bud moth.
	thuringiensis (Foray)						
	24978						
Obliquebanded	Bacillus	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See
and Threelined	thuringiensis						Notes.
Leafrollers	(Bioprotec PLUS)						
	32425						
	Bacillus	11	4.0 L	1.6 L	24 h*	0	Will also control bud moth.
	thuringiensis						
	(Bioprotec CAF)						
	26854						
	Bacillus	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Will also control other leaf-feeding larvae present.
	thuringiensis (Dipel						
	2X DF) 26508						
	Bacillus	11	4 L	1.6 L	24 h*	0	Will also control other leaf-feeding larvae present.
	thuringiensis (Foray)						
	24978						
	Notes: Apply Bacillus	thuring	iensis (Bt) products w	hen bloom is 80% or n	nore duri	ng late aft	ternoon or on a cloudy day when no rain is forecast for 24
							days (in the absence of rain) before applying a second
	treatment of Bt or and						, , , , , ,
Fire Blight	copper octanoate	M1	Prepare 0.5-2%		4 h	1	Apply 470-940 L of mixture/ha (190-380 L/acre). Repea
ŭ	(Cueva Commercial)		solution (5-20				every 7-10 days as long as weather conditions favour
	31825		L/1000 L water)				disease development (maximum 6 sprays/season). See F
							blight description.

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Stage of Develo	pment: Blossom						
Insect or Disease	Recommended	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup>	Precautions and Notes
	Product Choices					(days)	
	Bacillus	44	1-1.5 kg	405-607 g		0	Suppression only. Apply at blossom to end of flowering at 3-
	amyloliquefaciens						to 7-day intervals. Can be mixed with copper sprays. Can be
	(Double Nickel 55)						applied post-bloom for shoot blight management.
	31888						
	prohexadione	n/a	1350 g	546 g	12 h	45	For suppression of shoot blight, apply at 2.5 to 7.5 cm of new
	calcium (Apogee)						shoot growth. Will also reduce shoot growth.
	28042						
	Aureobasidium	NC	See Label	See Label	dry	n/a	Apply up to 4 times from 10-90% bloom if weather conditions
	pullulans (Blossom						favour blossom infection. Do not tank mix with other
	Protect) 30552						fungicides.
	streptomycin	25	1.8 kg or 100 ppm	729 g or 100 ppm	24	50	Apply at blossom stage if weather conditions favour blossom
	sulphate		(see notes)	(see notes)	h-14		infection. Maximum 3 applications (5.4 kg/ha/season). 100
	(Streptomycin 17)				days		ppm rate (600 g of Streptomycin per 1000 L of water) is
	10305						based on high volume spray. Use sufficient water volume for
							thorough blossom wetting. 14 day REI for thinning.
	kasugamycin	24	5.0 L	2.0 L	12 h	90	Apply at 20-30% bloom or when conditions favour disease
	(Kasumin) 30591						development. Do not apply after petal fall.
	Bacillus subtilis	44	1.1-1.7 kg	445-688 g	24 h*	0	Suppression only. Apply at 1-5% blossom and repeat as
	(Serenade Opti)						needed during the blossom period.
	31666						
	Notes: Warm weather	er followe	ed by rain favours blos	som infection. See fire	e blight s	ection of t	he Guide (page 7-13) for information on risk assessment
	based on temperatur	e.					
Crown and Root	fosetyl-al (Aliette)	33	5.0 kg	2.0 kg	dry	30	See description of crown rot for more information.
Rot	27688						

Insect or Disease	Recommended	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup>	Precautions and Notes
	Product Choices					(days)	
European Red Mite	pyridaben (Nexter	21	500 ml	202 ml	24 h	25 days	Do not apply more than twice per year. Controls rust mite.
	SC) 33433						Residual control: 7-10 days.
	fenazaquin	21 +	1.75 - 2.34 L	0.7 - 0.95 L	12 h -	10 days	Toxic to bees. Avoid application during bloom. Maximum
	(Magister SC)	39			17		number of applications: 1
	34544				days		
	abamectin + cyantraniliprole (Minecto Pro) 33023	6 + 28	496 mL	201 mL	12 h	28	Apply before a threshold of five spider mites per leaf is reached. Add 0.25 - 1% spray oil/ spray mixture. Also controls leafroller and mites. Maximum 1 application per season.

<sup>&</sup>lt;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.

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
	cyflumetofen (Nealta) 31284	25	1 L	405 mL	12 h	7	Do not apply more than 2 times per season. Spray interval: 14 days.
	acequinocyl (Kanemite) 28641	20B	2.1 L	850 mL	12 h	14	Do not apply more than twice/season. Controls all life stages  Does not control rust mite. Spray interval: 21 days.
	pyridaben (Nexter) 25135	21	300 g	120-240 g	24 h	25	Use higher rate. Do not apply more than twice per season.  Controls rust mite. Residual control: 7-10 days.
	spirodiclofen (Envidor) 28051	23	750 mL	300 mL	12 h	7	Only once per season. Controls rust mite. Spray interval: minimum 7 days.
	clofentezine (Apollo) 21035	10	300-600 mL	120-240 mL	4-12 h	21	Do not apply more than once per season or beyond 14 days after petal fall. Controls eggs and young mites. Does not control rust mite. Residual control: 45 days.
	bifenazate (Acramite) 27925	20D	851 g	344 g	12 h	7	Does not control rust mite. Residual control: 21 days.
	group more than once	e per se		nd number of predator	y mites s		of pesticide resistance. Do not apply products from the same be determined using a mite counting service before spraying
McDaniel, wospotted Spider	pyridaben (Nexter SC) 33433	21	500 - 1000 ml	202 404 ml	24 h	25 days	Do not apply more than twice per year. Controls rust mite.  Residual control: 7-10 days.
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	10 L/1000 L of water	10 L/1000 L of water	12 hours	0	Test for crop tolerance before widespread use. Apply even 10 - 14 days, depending on level of pest pressure. Do not us within 14 days before or after captan fungicide. Do not appl more than 8 applications per year.
	Mineral oil (Suffoil- X) 33099	NC	10 L/1000 L of water	10 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 us within 14 days before or after captan fungicide. Do not apple more than 8 applications per year.
	abamectin + cyantraniliprole (Minecto Pro) 33023	6 + 28	496 mL	201 mL	12 h	28	Apply before a threshold of five spider mites per leaf is reached. Add 0.25 - 1% spray oil/ spray mixture. Also controls leafrollers. Maximum 1 application per season.
	cyflumetofen (Nealta) 31284	25	1 L	405 mL	12 h	7	Do not apply more than 2 times per season. Spray interval 14 days.
	acequinocyl (Kanemite) 28641	20B	2.1 L	850 mL	12 h	14	Do not apply more than 2 times/season. Does not control rust mites. Spray interval: 21 days.
	pyridaben (Nexter) 25135	21	300 - 600 g	120 - 240 g	24 h	25	Use highest rate. Do not apply more than 2 times/season.  Controls rust mite. Residual control: 7-10 days.

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	spirodiclofen (Envidor) 28051	23	750 mL	300 mL	12 h	7	Apply only once/season. Controls rust mite. Spray interval: minimum 7 days.
	clofentezine (Apollo) 21035	10	300 - 600 mL	120 - 240 mL	4 - 12 h	21	Do not apply more than once/season or beyond more than 14 days after petal fall. Controls eggs and young mites. Do not control rust mite. Residual control: 45 days.
	bifenazate (Acramite) 27925	20D	568 g	229 g	12 h	7	Does not control rust mite. Residual control: 21 days.
Rust Mites and Pearleaf Blister	pyridaben (Nexter SC) 33433	21	500 ml	202 ml	24 h	25 days	Do not apply more than twice per year. Residual control: 7-10 days.
Mite	fenazaquin (Magister SC) 34544	21 + 39	1.75 L	0.7 L	12 h - 17 days	10 days	Toxic to bees. Avoid application during bloom. Maximum number of applications: 1
	pyridaben (Nexter) 25135	21	300 g	120 g	24 h	25	Do not apply more than twice per season. Residual control: 7-10 days.
	spirodiclofen (Envidor) 28051	23	750 mL	300 mL	12 h	7	Apply only once per season. Spray interval: minimum 7 days
Eyespotted Bud Moth	Chlorantraniliprole (Altacor MaX) 34654	28	73 - 143 g	30 - 58 g	12 h	5	Apply at pink to petal fall when larvae are active. Do not apply more than 3 times per season. Spray interval - 10 to 1 days.
	abamectin + cyantraniliprole (Minecto Pro) 33023	6 + 28	496 mL	201 mL	12 h	28	Add 0.25 - 1% spray oil/ spray mixture. Also controls leafroller and mites. Maximum 1 application per season.
	spinosad (Success) 26835	5	182 mL	74 mL	dry	7	Do not apply more than 3 times/season. Will reduce pansy spot. 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 per season. Do not tank mix with Sovran, Flint, Pristine, copper or captan fungicides. Toxic to bees. Spray interval: 10 to 14 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	7	Do not apply more than 3 times per season. Will reduce pansy spot. Will also control any leafroller present. Spray interval: 7 to 10 days.
	spinetoram (Delegate) 28778	5	210-420 g	85-170 g		7	Do not apply more than 3 times per season for all labeled uses. Spray interval: 14 days.
	chlorantraniliprole (Altacor) 28981	28	145-285 g	59-115 g	12 h	5	Apply when larvae are active. Do not apply more than 3 times per season.
Green Fruitworms	Chlorantraniliprole (Altacor MaX) 34654	28	73 - 108 g	30 - 44 g	12 h	5	Repeat if necessary at petal fall. Do not apply more than 3 times per season. Spray interval - 10 to 14 days.

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Insect or Disease	Recommended	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup>	Precautions and Notes
	Product Choices				L	(days)	
	novaluron				to 7		REIs: 7 days for thinning, 12 hours for all other activities.
	(Cormoran) 33353				days	_	
	Bacillus	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See
	thuringiensis						Notes. Spray interval: 7 days under optimal conditions.
	(Bioprotec PLUS)						
	32425						
	Bacillus	11	4.0 L	1.6 L	24 h*	0	Thorough coverage is very important. Will also control but
	thuringiensis						moth and leafroller larvae present. Spray interval: 7 days
	(Bioprotec CAF)						under optimal conditions.
	26854						
	Bacillus	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Thorough coverage is very important. Will also control but
	thuringiensis (Dipel						moth and leafroller larvae present. Spray interval: 7 days
	2X DF) 26508						under optimal conditions.
	Bacillus	11	4.0 L	1.6 L	24 h*	0	Thorough coverage is very important. Will also control but
	thuringiensis (Foray)						moth and leafroller larvae present. Spray interval: 7 days
	24978						under optimal conditions.
	chlorantraniliprole	28	145-215 g	59-87 g	12 h	5	Do not apply more than 3 times/season. Spray interval - 10
	(Altacor) 28981		· ·				to 14 days. Spray interval - 10 to 14 days.
Obliquebanded	Chlorantraniliprole	28	73 - 143 g	30 - 58 g	12 h	5	Apply when larvae become active. Do not apply more than
and Threelined	(Altacor MaX) 34654		· ·				times/ season. Spray interval: 10 to 14 days (see label).
Leafrollers	GS-omega/kappa-	32	1.2 - 2.3 L	486 - 931 mL	4 h	0	Tank mix with the low labelled rate of a Bacillus thuringiens
	Hxtx-Hv1a (Spear						(Bt) product registered on the same crop for control of
	Lep) 34678						caterpillars such as Bioprotec, Dipel or Foray. Use a
	''						spreader/sticker or non-ionic surfactant (0.125%) to enhance
							the adhesion of Spear Lep.
	tetraniliprole	28	225 ml	91 ml	12	7 days	Max 3 applications per year. Toxic to bees. Do not apply
	(Vayego 200 SC)				hours	'	during pre-bloom or blooming period. Apply post-bloom onl
	33711						
	abamectin +	6 + 28	496 mL	201 mL	12 h	28	Monitor larval population in the spring, and apply when over
	cyantraniliprole						wintering larvae become active. Add 0.25 - 1% spray oil/
	(Minecto Pro) 33023						spray mixture. Also controls mites. Maximum 1 application
	(						per season.
	cyclaniliprole	28	1.2 - 1.6 L	485 - 647 ml	12	7 days	Toxic to bees. Do not make more than 3 applications per
	(Harvanta 50SL)						crop year. Where possible, rotate the use of Harvanta or
	32889						other Group 28 insecticides with different groups that conti
							the same pests.
	Bacillus	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See
	thuringiensis	''	2.0 2		1		Notes. Spray interval: 7 days under optimal conditions.

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nsect 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
	(Bioprotec PLUS) 32425						
	spinosad (Success) 26835	5	182 g	74 g	dry	7	Do not apply more than 3 times/season. Spray interval: 7 to 10 days.
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4.0 L	1.6 L	24 h*	0	Will 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.
	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 Sovran, Flint, Pristine copper or captan fungicides. Toxic to bees. Spray interval 10 to 14 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	7	Do not apply more than 3 times per season. Will reduce pansy spot. Spray interval: 7 to 10 days.
	spinetoram (Delegate) 28778	5	210-420 g	85-170 g	12 h	7	Apply when larvae are actively feeding but before they roll use in leaves. Do not apply more than 3 times per season. Use the higher rate under pest pressure and/or larger larvae. Spray interval: 14 days.
	methoxyfenozide (Intrepid) 27786	18	0.75 L	304 mL	12 h	14	Do not apply more than 2 times per season. Spray interva 14 to 21 days.
	Bacillus thuringiensis (Foray) 24978	11	4.0 L	1.6 L	24 h*	0	Will also control bud moth. Spray interval: 7 days under optimal conditions.
	chlorantraniliprole (Altacor) 28981	28	145-285 g	59-115 g	12 h	5	Do not apply more than 3 times/season. For rates above 2 g/ha (87 g/ac), do not apply more than twice/season. Spra interval - 10 to 14 days.
	tebufenozide (Confirm) 24503	18	1 L	405 mL	dry- 12 h	14	Do not apply more than 4 times per season. Spray interva 10 to 14 days.
	pheromone (Isomate CM/LR TT) 28814	NC	750	300	n/a	0	Install before first moth flight. Will also aid in control of second generation codling moth.
							omach poisons so complete coverage is important for Entrust and Delegate will suppress thrips.
Tentiform Leafminer	acetamiprid + novaluron	4 + 15	700 ml	283		14 days	

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nsect 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
	(Cormoran) 33353				days		
	abamectin + cyantraniliprole (Minecto Pro) 33023	6 + 28	496 mL	201 mL	12 h	28	Apply against egg (to control new hatch) and early sap feeder stages of first and second generation tentiform leafminers when locally established thresholds have beer reached. Add 0.25 - 1% spray oil/ spray mixture. Also controls leafroller and mites. Maximum 1 application per season.
	abamectin (Agri- Mek SC) 31607	6	170 mL	69 mL	dry	28	Apply with 0.25% superior oil. Do not apply more than once/season. Will also control rust mites and leafminer larvae. Residual control: 21 days.
	acetamiprid (Assail) 27128	4	80-120 g	32-48 g	12 h-6 days	7	Do not apply more than twice per season alone or alternate with Admire. Spray interval - 12 days. REIs of 2 days for scouting and 6 days is for thinning.
	spinetoram (Delegate) 28778	5	210-420 g	85-170 g	12 h	7	Apply at egg hatch or first sign of sap-feeder larvae. Do napply more than 3 times per season, use higher rate under high pest pressure. Spray interval: 7 days.
	methoxyfenozide (Intrepid) 27786	18	500 mL	200 mL	12 h	14	Apply at first egg hatch of first generation. Spray interval: 7 to 21 days.
	Spray interval: minim Notes: Make the first	um 10 da applicat	ays. Admire and Alias ion shortly after petal	will no longer be regis	stered for ulations r	use by greach ecor	nes/season alone or alternately with other Group 4 products rowers as of April 11, 2021.  nomic thresholds. Do not apply more than twice/season alout will no longer be registered for use by growers as of April 2006.
		for the re	st of the season. If ch	nemical control is need			t generation tissue-feeder larvae in the spring will provide for resistance management. Avoid using Group 4 products
Mullein Bug (Campylomma)	acetamiprid + novaluron (Cormoran) 33353	4 + 15	840 - 1260 ml	340 - 510 ml	12 hrs to 7 days	14 days	Do not apply more than 6.9 L/ha. Spray interval - 12 days REIs: 7 days for thinning, 12 hours for all other activities
	tetraniliprole (Vayego 200 SC) 33711	28	300 ml	121 ml	12 hours	7 days	Suppression only. Max 3 applications per year. Toxic to bees. Do not apply during pre-bloom or blooming period Apply post-bloom only.
	sulfoxaflor (Closer) 30826	4C	400 mL	162 mL	12 h	7	Do not apply during bloom or when flowering weeds are present. Do not apply more than 2 times per season. Sprinterval: minimum 7 days.
	acetamiprid (Assail) 27128	4	80-160 g	32-64 g	12 h-6 days	7	Will also control aphids. Do not apply more than once/season. See note below regarding repeated use. Do not apply during bloom. Spray interval - 12 days. REIs of

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
							days for scouting and 6 days is for thinning.
	thiacloprid (Calypso)	4	145-290 mL	59-117 mL	12 h	30	Do not apply more than once/season. See note below
	28429	<u> </u>					regarding repeated use. Spray interval: 14 to 21 days.
	Notes: Will also conti 10 days. Admire and						note below regarding repeated use. Spray interval: minimu 21.
		rough co	overage. Fruit greater	than 12 mm diameter	are not a	affected by	nan twice/season for all other registered uses to prevent mi y campylomma feeding. Apply as early in petal fall as possil
Fruittree and		6 + 28	496 mL	201 mL	12 h	28	Add 0.25 - 1% spray oil/ spray mixture. Also controls mite
European Leafrollers	cyantraniliprole (Minecto Pro) 33023	0 1 20	430 IIIE	20111112	1211		Maximum 1 application per season.
	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	7	Do not use more than 3 times/season. Will reduce pans spot. 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. Spraginterval: 7 days under optimal conditions.
	Bacillus thuringiensis (Dipel 2X DF) 26508	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Will also control other leaf-feeding larvae present. Spra 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 a ti,es/season. Do not tank mix with Sovran, Flint, Pristing copper or captan fungicides. TOXIC to bees. Spray interval to 14 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	7	Do not apply more than 3 times/season. Will reduce pans spot. Spray interval: 7 to 10 days.
	spinetoram (Delegate) 28778	5	210-420 g	85-170 g		7	Do not apply more than 3 times per year for all labeled us Spray interval: 14 days.
	Bacillus thuringiensis (Foray) 24978	11	4.0 L	1.6 L	24 h*	0	Will also control other leaf-feeding larvae present. Sprainterval: 7 days under optimal conditions.
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 the applications per crop year. Where possible, rotate the upon of Harvanta or other Group 28 insecticides with different

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
							groups that control the same pests.
San Jose Scale	spirotetramat (Movento 240 SC) 28953	23	365-585 mL	148-237 mL	12 h	7	Toxic to bees. Apply Movento with an adjuvant such as Agra 90 after petal fall. Do not exceed 1120 mL/ha/season. Also controls apple leaf curling midge. Spray interval: minimum 1 days.
Apple Leaf Curling Midge	spirotetramat (Movento 240 SC) 28953	23	365-585 mL	148-237 mL	12 h	7	Toxic to bees. Apply Movento with an adjuvant such as Agra 90 after petal fall. Do not exceed 1120 mL/ha/season. Sprainterval: minimum 14 days. Do not apply until after petal fall Apple leaf curling midge is not a problem in healthy bearing trees but control is essential in nursery and young plantings
	spinetoram (Delegate) 28778	5	420 g	170 g	12 h	7	Toxic to bees. Do not apply to flowering crops or weeds if bees are visiting the treatment area. Maximum 3 application per year. Application interval: 17 days.
White Apple Leafhopper	acetamiprid (Assail) 27128	4	80-120 g	32-48 g	12 h-6 days	7	Will also suppress aphids and leafminers. Do not apply this products alone or alternately with other Group 4 products more than twice/season (see additional notes). Spray intervals - 12 days. REI of 2 days for scouting and 6 days is for thinning.
	thiacloprid (Calypso) 28429	4	145 mL	59 mL	12 h	30	Spray interval: 14 to 21 days.
	(see additional notes) longer be registered to Notes: TOXIC to bee	). Spray or use b s. See r	interval: minimum 7 da y growers as of April 1 lotes above regarding	ays. Admire will no lon 1, 2021. number of application	ger be re	egistered f	rnately with other Group 4 products more than twice/season for use by growers as of April 11, 2021. Admire & Alias will no ucts/season. Spray interval: 10 to 14 days. Clutch will no
			y growers as of April 1				
							Alias, Clutch) more than twice/season for all registered uses.
Apple Clearwing Moth	novaluron (Rimon) 28515	15	1.4 L/1000 L of water	1.4 L/1000 L of water	12	14	Target larvae in the spring, apply when there is a lot of fras development. Direct spray on tree trunk with a hand gun of backpack sprayer. Do not apply more than 2 times/season Not recommended for summer applications as it may disrup biological control of mites. Spray interval: 14 days.
Powdery Mildew (Apples)	pyriofenone (Property 300SC) 32534	50	0.3 - 0.366 L	0.121 - 0.148 L	12 h	14 days	Do not apply more than 1.464 L/ha a year. Do not make more than 2 sequential applications of product or other Group 50 fungicide before rotating to a fungicide with a different MOA. Do not apply Pyriofenone to the following varieties: Macoun; SnowSweet; or Baldwin. Pyriofenone is safe on most commercial apple varieties; however, it has no been tested on all varieties or in all application mixtures. To

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Insect or Disease	Recommended	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup>	Precautions and Notes
	Product Choices					(days)	
							ensure crop safety, treat a single tree of each variety with
							Pyriofenone or any mixture containing Pyriofenone before
							applying to the entire orchard.
	ipflufenoquin	52	165 - 220 ml	66.8 - 89 ml	12 h	7 days	The 165 ml/ha rate provides suppression of powdery mildev
	(Migiwa 20 SC)						If disease pressure is moderate or high or if control is
	35443						required, use the 220 ml/ha rate. The retreatment interval is
							7 to 10 days. Do not make more than two sequential
	impyrfluxam	7	146 - 219 ml/ha	59 - 88.6 ml/ac	12 h	Petal	applications.  Green tip to petal fall only. Application must include a 100%
	(Excalia Fungicide)	'	146 - 219 mi/na	59 - 66.6 m/ac	1211	fall	organosilicone adjuvant, such as Xiameter, at 31.3 - 62.5
	. ,						ml/100 L water.
	hydrogen peroxide +	NC	1 L/100 L of water	1 L/1000 L of water	4 h	0	Start foliar/branch/stem applications before the disease
	peroxyacetic acid						occurs or at the first sign of disease and/or when weather
	(Oxidate 2.0) 32907						conditions are favourable for disease development. Apply
							diluted spray to the point of run-off to achieve full and even coverage.
	garlic powder	NC	9 L/500 to 800 L of	9 L/500 to 800 L of		0	Disease control can be achieved under low to moderate
	(Buran) 30601		water	water			disease pressure. Begin applications when conditions are
							conducive to disease development. The addition of a
							registered non-ionic surfactant such as Agral 90 or AgSurf a
			. ==				a rate of 0.1% could help to improve the spreading.
	fenazaquin	21 +	1.75 - 2.63 L	0.7 - 1.1 L	12 h -	10 days	Toxic to bees. Avoid application during bloom. Maximum
	(Magister SC)	39			17		number of applications: 1
	34544 sulphur (Cosavet DF	M2	7.0 kg	2.8 kg	days 24 h	1	
	Edge 31869,	IVIZ	7.0 kg	2.6 Kg	24 11	'	
	Kumulus 18836,						
	Microthiol 29487						
	pyraclostrobin +	7 + 11	0.3 - 0.4 L	0.12 - 0.16 L	12 h -	5 days	Limit sprays of Group 11 fungicides to 2 sprays/season.
	fluxapyroxad				12	(hand	REI's: hand thinning - 12 days, hand harvesting - 5 days,
	(Merivon) 33951				days	harvest)	mechanical harvesting and all other activities - 12 hours.
	Mineral oil (Suffoil-	NC	10 L/1000 L of water	10 L/1000 L of water	12	0	Test for crop tolerance before widespread use. Apply at tigl
	X) 33099				hours		cluster and continue every 10-14 days. Avoid application
							during bloom. Do not use within 14 days before or after
							captan fungicide. Do not apply more than 8 applications pe
	mofontriflusonorala	2	0.25 - 0.375 L	0.1 - 0.15 L	12		year.
	mefentrifluconazole (Cevya) 33405	3	U.25 - U.375 L	0.1 - 0.15 L	1	0	Do not make more than 2 sequential applications before alternating to a non-group 3 fungicide registered for the
	(Cevya) 33403	1	l	l	hours	I	alternating to a non-group a fungicitie registered for the

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

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
							same use. Begin applications prior to disease development.  Apply an additional applic. at an interval of 7 - 10 days if disease persists or weather conditions are favourable for disease development.
	Polyoxin D Zinc Salt (Diplomat 5SC) 32918	19	259 - 926 ml	104 - 374 ml		0 days	Suppression of powdery mildew. Begin as a preventative application when conditions favour disease development, 7 14 day spray interval. Number of applications: 3-10 depending on rate.
	benzovindiflupyr + difenoconazole (Aprovia Top) 31526	3+7	643 mL	260 mL	12 h	30	Rotate with other fungicides that do not contain Group 3 or Group 7 fungicides for resistance management. Do not apply more than 2 consecutive applications.
	benzovindiflupyr (Aprovia) 31981	7	500 mL	202 mL	12 h	30	Rotate with other non-Group 7 products. Do not apply in two consecutive sprays nor more than 2 L/ha (1.0 L/acre) per season.
	difenoconazole + cyprodinil (Inspire Super) 30827	3+9	836 mL	338 mL	12 h	14	Suppression of powdery mildew. Limit use of Group 3 fungicides (Nova, Inspire, Fullback) to 2 sprays/season.
	flutriafol (Fullback) 31679	3	585 - 877 mL	237 - 355 mL	12 h	14	Limit use of Group 3 fungicides (Nova, Inspire, Fullback) to 2 sprays/season. Rotate with fungicides from other groups.
	potassium bicarbonate (MilStop) 28095	NC	2.8 - 5.6 kg	1.13 - 2.27 kg	4 h	0	For best protection, repeat at one or two-week intervals as indicated until conditions are no longer favourable for disease development. Shorten the application interval to 7 days during rainy weather or during periods of high relative humidity.
	Bacillus subtilis (Serenade Opti) 31666	44	1.7-3.3 kg	0.69-1.3 kg	24 h*	0	Suppression only. Apply preventatively at 7- to 10-day intervals.
	calcium polysulphide (Lime sulphur 30%) 16465	M2	9 L/1000 L	9 L/1000 L	48 h	n/a	Lime sulphur may injure "sulphur shy" varieties or may caus injury during hot temperatures. May harm predatory mites.
	myclobutanil (Nova 40WP) 22399	3	340 g	140 g	12 h - 12 days	14	Limit use of Group 3 fungicides (Nova, Inspire, Fullback) to a sprays/season. Rotate with fungicides from other groups. 12 days REI for thinning.
	kresoxim-methyl (Sovran) 26257	11	240 - 450 g	100 - 182 g	48 h	30	CAUTION: Sovran drift may injure cherries. Limit sprays of Group 11 fungicides (Flint, Sovran, Pristine) to 2/season for resistance management. Rotate with fungicides from other groups.
	trifloxystrobin (Flint	11	140 - 210 g	57 - 85 g	12 h –	14	Limit sprays of Group 11 fungicides (Flint, Sovran, Pristine

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	Extra Fungicide) 34962				4 days		to 2/season for resistance management. Rotate with fungicides from other groups. CAUTION: Sovran may injure cherries. 4 days REI for thinning.
	thiophanate-methyl (Senator 50SC) 32096	1	3.15 L	1.27 L	24 h*	1	May harm predatory mites. Maximum 2 applications per season.
	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 tight cluster and repeat at 10-14 day intervals. Do not use in combination with or within 14 days of sprays containing sulphur or captan.
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	1.0 - 1.2 kg	405 g - 485 g	dry to 12 days	5	Limit sprays of Group 11 fungicides (Flint, Sovran, Pristine) to 2/season for resistance management. Rotate with other fungicides. Use the higher rate during pink to bloom stages Caution: Sovran drift may injure cherries. 12 days REI for thinning.
	penthiopyrad (Fontelis) 30331	7	1.0-1.5 L	405-607 mL	12 h	28	Do not apply more than 3 times per season, or more than twice sequentially. Use high rate for high disease pressure
	fluopyram pyrimethanil (Luna Tranquility) 30510	7 + 9	600 mL	242 mL	12 h	14	Use preventatively. Do not apply more than 2 times per season.
				ferent groups for resist			
Apple Scab	ipflufenoquin (Migiwa 20 SC) 35443	52	165 - 220 ml	66.8 - 89 ml	12 h	7 days	Make first application at green tip stage. The retreatment interval is 7 to 10 days. Do not make more than two sequential applications.
	mancozeb (Dithane Rainshield) 20553	M3	2-6 kg	0.81 - 2.4 kg	12 h - 35 d	77	Do not apply more than 24 kg/ha/year (18 kg a.i./ha//year of Dithane Rainshield Fungicide (e.g., 4 applications per year a 6.0/kg/ha or 8 applications at 3.0 kg/ha OR 12 applications at 2.0 kg/ha).
	impyrfluxam (Excalia Fungicide)	7	146 - 219 ml/ha	59 - 88.6 ml/ac	12 h	Petal fall	Green tip to petal fall only.
	hydrogen peroxide + peroxyacetic acid (Oxidate 2.0) 32907	NC	1 L/100 L of water (1% solution)	1 L/1000 L of water (1% solution)	4 h	0	Partial suppression. Start foliar/branch/stem applications before the disease occurs or at the first sign of disease and/or when weather conditions are favourable for disease development. Apply diluted spray to the point of run-off to achieve full and even coverage.
	extract of Swinglea glutinosa (EcoSwing) 35206	BM 01	1.75 - 2.35 L	0.71 - 0.95 L	4 h	0	Repeat application if measurable rain occurs within 2 to 3 hours of spraying.

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	garlic powder (Buran) 30601	NC	9 L/500 L of water	9 L/500 L of water		0	The maximum rate of product in a single application is 18 L/ha. This product does not have protectant activity. It should be used as a post-infection treatment, applied after rainfall of when conditions are conducive to disease development.  Application interval: before 350 degree hours (base 0 degrees C) after the beginning of the infection.
	sulphur (Cosavet DF Edge 31869, Kumulus 18836, Microthiol 29487	M2	7.0 kg	2.8 kg	24 h	1	Do not apply sulphur in combination with, immediately before, or closely following oil sprays.
	pyraclostrobin + fluxapyroxad (Merivon) 33951	7 + 11	0.3 - 0.4 L	0.12 - 0.16 L	12 h - 12 days	5 days (hand harvest)	Limit sprays of Group 11 fungicides to 2 sprays/season. REI's: hand thinning - 12 days, hand harvesting - 5 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 - 10 days if disease persists or weather conditions are favourable for disease development.
	Isofetamid (Kenja) 31758	7	913 ml	369 ml	12 hours	20	Do not apply more than 2 consecutive Group 7 applications.  Application interval: 10 to 14 days.
	benzovindiflupyr + difenoconazole (Aprovia Top) 31526	3+7	386 - 643 mL	156 - 260 mL	12 h	30	Tank mix with protectant fungicide for improved fruit scab control. Use high rate for mildew. Rotate with other fungicide groups for resistance management. Do not apply more than 2.57 L/ha/season.
	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). Do not exceed 1% rate for varieties susceptible to russeting. Repea every 7-10 days as long as weather conditions favour disease development.
	benzovindiflupyr (Aprovia) 31981	7	300-500 mL	121-202 mL	12 h	30	For improved fruit scab control, tank mix with a protectant fungicide (see label). Rotate with other non-Group 7 products. Do not apply in two consecutive sprays nor more than 2 L/ha (1.0 L/acre) per season.
	fluazinam (Allegro) 27517	29	0.50 - 1.0 L	202 - 404 mL	25 h-3 days	28	Use highest rate and shortest interval for high disease pressure. Will also suppress mites. 3 days REI for thinning.
	difenoconazole + cyprodinil (Inspire Super) 30827	3+9	560 - 836 mL	227 - 338 mL	12 h	14	Limit sprays of group 3 fungicides (Nova, Inspire, Fullback) to 2 per season. Tank mix with a protectant fungicide (Dithane, Manzate, Polyram, Captan, Maestro)) for

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
							resistance management.
	flutriafol (Fullback) 31679	3	950 mL	385 mL	12 h	14	Tank mix with a full rate of a protectant such as Dithane, Manzate, Polyram, Captan or Maestro. Note that Dithane, Manzate and Polyram have a 45-day PHI. Limit sprays of group 3 fungicides (Nova, Inspire, Fullback) to 2/season for resistance management.
	myclobutanil (Nova	3	340 g	140 g	12 h -	14	Do not use as an eradicant treatment after bloom. Tank mix
	40WP) 22399				12 days		with the full rate of a protectant such as Dithane, Manzate, Polyram, Captan or Maestro. Note that Dithane, Manzate and Polyram have a 45-day PHI. Limit sprays of group 3 fungicides (Nova, Inspire, Fullback) to 2/season for resistance management. 12 days REI for thinning.
	kresoxim-methyl (Sovran) 26257	11	360 g	150 g	48 h	30	CAUTION: Sovran drift may injure cherries. Limit sprays of group 11 fungicides (Flint, Sovran, Pristine) to 2/season.
	trifloxystrobin (Flint Extra Fungicide) 34962	11	140 - 175 g	57 - 71 g	12 h – 4 days	14	Limit sprays of group 11 fungicides (Flint, Sovran, Pristine) to 2/season. 4 days REI for thinning.
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	1.0 - 1.2 kg	405 g - 485 g	dry to 12 days	5	Avoid more than 2 consecutive applications. Limit sprays o group 11 fungicides (Flint, Sovran, Pristine) to 2 per seasor 12 days REI for thinning.
	penthiopyrad (Fontelis) 30331	7	1.0-1.5 L	405-607 mL	12 h	28	Do not apply more than 3 times per season, or more than twice sequentially. Use high rate for high disease pressure.
	fluopyram pyrimethanil (Luna Tranquility) 30510	7+9	800 mL	323 mL	12 h	14	Do not apply more than 2 times per season.
	mancozeb (Manzate 28217, Penncozeb 30241 and 25397)	M3	6.0 kg	2.4 kg	12 h - 35 d	77	Do not apply more than 4 applications per year. Apply at a minimum of the 7-day interval.
	copper oxychloride (Copper Spray 19146)	M1	300 - 500 g/ha	121 - 202 g/ha	48 h	2 days	Maximum number of applications: 6. Reapply if needed as indicated by monitoring.
	captan (Captan Supra 33641, Maestro 33488)	M4	3 kg	1.2 kg	2 - 24 days	7	Do not apply Captan in combination with, immediately before, or closely following oil sprays. Do not use it during bloom. Early-season sprays may cause necrotic spotting to foliage of sensitive varieties. Apply at a minimum of a 7-day interval.

this period.

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Stage of Develo	pment: Petal fall o	or Caly	/X				
Insect or Disease	Recommended	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup>	Precautions and Notes
	Product Choices					(days)	
	Notes: Eradicant spra	ays are l	best used in a protective	ve program. However	they can	be used s	soon after an infection period and still provide control.
Fire Blight	copper octanoate	M1	Prepare 0.5-2%		4 h	1	Apply 470-940 L of mixture/ha. Repeat every 7-10 days as
	(Cueva Commercial)		solution (5-20				long as weather conditions favour disease development
	31825		L/1000 L water)				(maximum 6 applications per season). See Fire blight
							description.
	prohexadione	n/a	1350 g	546 g	12 h	45	For suppression of shoot blight, apply at 2.5 to 7.5 cm of new
	calcium (Apogee)						shoot growth with subsequent applications at 14-21 day
	28042						intervals. Max. 4 sprays/yr. Will also reduce shoot growth.

Insect or Disease	Recommended	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup>	Precautions and Notes
	Product Choices					(days)	
European Red Mite	pyridaben (Nexter SC) 33433	21	500 ml	202 ml	24 h	25 days	Do not apply more than twice per year. Controls rust mite.  Residual control: 7-10 days.
	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
	abamectin + cyantraniliprole (Minecto Pro) 33023	6 + 28	496 mL	201 mL	12 h	28	Apply before a threshold of five spider mites per leaf is reached. Add 0.25 - 1% spray oil/ spray mixture. Also controls leafroller and mites. Maximum 1 application per season.
	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.
	abamectin (Agri- Mek SC) 31607	6	170 mL	69 mL	dry	28	Apply with 0.25% superior oil. Do not apply more than once/season. Will also control rust mites and leafminer larvae. Residual control: 21 days.
	acequinocyl (Kanemite) 28641	20B	2.1 L	850 mL	12 h	14	Do not apply more than twice per season. For control of all life stages. Spray interval: 21 days.
	pyridaben (Nexter) 25135	21	300 g	120-240 g	24 h	25	Maximum 2 applications per season. Residual control: 7-10 days.
	spirodiclofen (Envidor) 28051	23	750 mL	300 mL	12 h	7	Use Envidor only once per season. Spray interval: minimum 7 days.
	mineral oil (Purespray Green) 27666	NC	10 L	4 L	12 h	0	For suppression only. Begin applications when mites first appear, allow 10-14 days between applications. Do not use within 14 days of captan or sulphur. Post harvest sprays may be made to reduce over-wintering pressure.

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Insect or Disease	Recommended	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup>	Precautions and Notes
	Product Choices	000	054	044	40.1	(days)	N. C. C. S. C. I. D. C. I. C. I. C. I.
	bifenazate	20D	851 g	344 g	12 h	7	Not for rust mite control. Residual control: 21 days.
	(Acramite) 27925		1		<u> </u>		
							stance. Do not apply products from the same group more that
					st be det	terminea u	sing a mite counting service before spraying. Apply the
McDaniel,	pyridaben (Nexter	21	ensure thorough and 500 - 1000 ml		24 h	25 days	Do not apply more than twice per year. Controls rust mite.
wospotted Spider	SC) 33433	21	500 - 1000 1111	202 404 ml	24 N	25 days	Residual control: 7-10 days.
Mites	fenazaquin	21 +	1.75 - 2.34 L	0.7 - 0.95 L	12 h -	10 days	Toxic to bees. Avoid application during bloom. Maximum
WIILES	(Magister SC)	39	1.75 - 2.54 L	0.7 - 0.93 L	17	10 days	number of applications: 1
	34544	33			days		number of applications.
	Mineral oil (Suffoil-	NC	10 L/1000 L of water	10 L /1000 L of water	12	0	Test for crop tolerance before widespread use. Apply ever
	X) 33099	'	10 L/1000 L of water	10 L/1000 L of water	hours		10 - 14 days, depending on level of pest pressure. Do not us
	A) 33033				liouis		within 14 days before or after captan fungicide. Do not app
							more than 8 applications per year.
	abamectin +	6 + 28	496 mL	201 mL	12 h	28	Apply before a threshold of five spider mites per leaf is
	cyantraniliprole	20	1001112	2011112			reached. Add 0.25 - 1% spray oil/ spray mixture. Also
	(Minecto Pro) 33023						controls leafrollers. Maximum 1 application per season.
	cyflumetofen	25	1 L	405 mL	12 h	7	For control of all life stages. Do not apply more than 2
	(Nealta) 31284		. –				times/season. Not for rust mite control. Spray interval: 14
							days.
	abamectin (Agri-	6	170 mL	69 mL	dry	28	Apply with 0.25% superior oil. Do not apply more than
	Mek SC) 31607						once/season. Will also control rust mites and leafminer
	,						larvae. Residual control: 21 days.
	acequinocyl	20B	2.1 L	850 mL	12 h	14	Do not apply more than 2 times/season. Spray interval: 21
	(Kanemite) 28641						days.
	pyridaben (Nexter)	21	300 - 600 g	120 - 240 g	24 h	25	Maximum two applications per season. Residual control:
	25135						7-10 days.
	spirodiclofen	23	750 mL	300 mL	12 h	7	Use only once/season. Spray interval: minimum 7 days.
	(Envidor) 28051						
	bifenazate	20D	851 g	344 g	12 h	7	Does not control rust mites. Residual control: 21 days.
	(Acramite) 27925						
							stance. Do not apply products from the same group more
					mined ι	using mite	counting services before spraying. Apply the products in
		ne to ens	sure thorough and unif	orm coverage.			
Rust Mites and	pyridaben (Nexter	21	500 ml	202 ml	24 h	25 days	Do not apply more than twice per year. Residual control:
Pearleaf Blister	SC) 33433						7-10 days.
Mite	fenazaquin	21 +	1.75 L	0.7 L	12 h -	10 days	Toxic to bees. Avoid application during bloom. Maximum
	(Magister SC)	39			17		number of applications: 1

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	34544				days		
	abamectin (Agri- Mek SC) 31607	6	170 mL	69 mL	dry	28	Apply with 0.25% superior oil. Do not apply more than once/season. Will also control leaf mites and leafminer larvae. Residual control: 21 days.
	pyridaben (Nexter) 25135	21	300 g	120 - 240 g	24 h	25	Maximum 2 applications per season. Residual control: 7-10 days.
	spirodiclofen (Envidor) 28051	23	750 mL	300 mL	12 h	7	Apply only once per season. Spray interval: minimum 7 days
Apple Clearwing Moth	Chlorantraniliprole (Altacor MaX) 34654	28	143 g	58 g	12 h	5	Apply specified amount as a spray to wet application to the bottom 60 cm of tree trunk, at the first sign of apple clearwing moth feeding. Apply at first egg hatch based on pheromone trap catches and degree days after biofix. Apply to eggs or first instar larvae to control each generation. Do not exceed 322 g/ha (130 g/ac) per season. Do not apply more than 3 times per season for all labeled uses. Spray interval: 10 - 14 days.
	spinosad (Success) 26835	5	125 mL	50 mL	dry	7	Thoroughly spray lower trunk using a hand-gun sprayer.  Apply within 10 days of first moth emergence, and repeat at 7 - 10 day intervals up to a maximum of 7 applications/season.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	7	Thoroughly spray lower trunk using a hand gun sprayer.  Apply within 10 days of first adult emergence, and repeat at 7-10 day intervals up to a maximum of 7 applications.
	spinetoram (Delegate) 28778	5	420 g	170 g	12 h	7	For suppression only. Apply 1-2 applications 14 days apart targeting young larvae. Direct spray on trunk particularly on graft unions and pruning cuts using a handgun or backpack sprayer. Use spray volume of 1500-2000 L/ha to ensure thorough coverage. Do not apply more than 3 times per season for all labeled uses. Spray interval: 14 days.
	chlorantraniliprole (Altacor) 28981	28	285 g	115 g	12 h	5	Apply specified amount as a spray to wet application to the bottom 60 cm of tree trunk, at the first sign of apple clearwing moth feeding. Apply at first egg hatch based on pheromone trap catches and degree days after biofix. Apply to eggs or first instar larvae to control each generation. Do not exceed 645 g/ha (261 g/ac) per season. Do not apply more than 3 times per season for all labeled uses. Spray interval: 10 - 14 days.

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	required to ensure pr	oper timi					
Codling Moth	Chlorantraniliprole (Altacor MaX) 34654	28	73 - 108 g	30 - 44 g	12 h	5	Apply at first egg hatch based on pheromone trap catches and degree days after biofix. Controls eggs and larvae. Also controls leafroller. Do not exceed 322 g/ha (130 g/ac) per season. Will provide control of apple clearwing moth.
	GS-omega/kappa- Hxtx-Hv1a (Spear Lep) 34678	32	1.2 - 2.3 L	486 - 931 mL	4 h	0	Tank mix with the low labelled rate of a Bacillus thuringiens (Bt) product registered on the same crop for control of caterpillars such as Bioprotec, Dipel or Foray. Use a spreader/sticker or non-ionic surfactant (0.125%) to enhance the adhesion of Spear Lep.
	Cydia pomonella granulovirus (CpGV) isolate V-22 (Madex HP) 34116	NC	50 - 100 ml	20 - 40 ml	4 hours	0	The pH of tank solution should range between 5 and 8.5. Use the high rate under high pest pressure or when reapplication interval is longer than 6 days. Max 5 applications per year.
	acetamiprid + novaluron (Cormoran) 33353	4 + 15	1050 - 1260 ml	425 - 510 ml	12 hrs to 7 days	14 days	Do not apply more than 6.9 L/ha. Spray interval - 12 days REIs: 7 days for thinning, 12 hours for all other activities.
	tetraniliprole (Vayego 200 SC) 33711	28	225 ml	91 ml	12 hours	7 days	Max 3 applications per year. Toxic to bees. Do not apply during pre-bloom or blooming period. Apply post-bloom on Apply before egg hatch for first and second generation codling moth based on pheremone trap captures and degree days after biofix. Also controls leafroller.
	abamectin + cyantraniliprole (Minecto Pro) 33023	6 + 28	496 mL	201 mL	12 h	28	Apply before egg hatch for first generation and at first egg hatch for second generation codling moth based on pheromone trap catches and degree days after biofix. Add 0.25 - 1% spray oil/ spray mixture. Also controls leafroller and mites. Maximum 1 application per season.
	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 contr the same pests.
	cyantraniliprole (Exirel) 30895	28	500- 750 mL	202- 304 mL	12 h	3	Apply before egg hatch for first generation and at first egg hatch for second generation codling moth based on pheromone trap catches and degree days after biofix. Als controls leafroller. Do not tank mix with Sovran, Flint, Pristine, copper or captan fungicides. Toxic to bees. Spra interval: 10 to 14 days.

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

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
	70% WP) 29064				9		between sprays: 14 days. Max applications per season: 2. A
					days		hand thinning must occur prior to application.
	granulovirus (Virosoft) 26533	NC	250 mL	100 mL	24 h*	0	Slow acting, with no leafroller control. Virus must be ingested to be effective. Apply product in late afternoon or on a cloud day to avoid direct exposure to sunlight. Spray interval: 14 days.
	acetamiprid (Assail) 27128	4	240 g	97 g	12 h-6 days	7	Do not apply more than twice per season. Will also control aphids, leafminer & leafhoppers. Toxic to bees. Spray interval - 12 days. REI of 6 days is for thinning.
	thiacloprid (Calypso) 28429	4	290-440 mL	117-178 mL	12 h	30	Controls larvae, will also control aphids. Does not control leafrollers. Low toxicity to bees, but high toxicity to lacewings. Use low rate for first brood if low to moderate pressure. Do not exceed a total of 870 mL/ha (352 mL/ac) per season. Spray interval: 14 to 21 days.
	novaluron (Rimon) 28515	15	0.93 - 1.4 L / 1000 L water	0.376 - 0.566 L / 1000 L water	12 h	14	Controls eggs and larvae. Will also control leafroller eggs. Do not apply more than 4 times or 11 L/ha/season. May disrupt biological control of mites. Spray interval: 10 to 14 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	4 h	7	Suppression only. Approved for organic fruit production.  Spray interval: 7 to 10 days.
	spinetoram (Delegate) 28778	5	420 g	170 g	12 h	7	Apply at first egg hatch based on pheromone trap catches and degree days after biofix. Control larvae before they enter fruit. Do not apply more than 3 times per season. Use higher ate under high pest pressure. Also controls leafroller. Spray interval: 14 days.
	methoxyfenozide (Intrepid) 27786	18	1 L	405 mL	12 h	14	Controls eggs and larvae. Do not apply more than 2 times per season. Spray interval: 14 to 21 days.
	chlorantraniliprole (Altacor) 28981	28	145-215 g	58-86 g	12 h	5	Apply at first egg hatch based on pheromone trap catches and degree days after biofix. Controls eggs and larvae. Also controls leafroller. Do not exceed 645 g/ha (261 g/ac) per season. Will provide control of apple clearwing moth.
	tebufenozide (Confirm) 24503	18	1 L	405 mL	dry- 12 h	14	Do not use if there is resistance to Group 1 insecticides or i pest pressure is moderate to high. Do not apply more than 4 times/season. Spray interval: 10 to 14 days.
	mineral oil (Purespray Green) 27666	NC	10 L	4 L	12 h	0	Apply at or just before egg laying. Apply in a minimum of 1000L water/ha. Do not use in combination with or within 14 days of sulphur or captan. Also provides control of aphids and suppression of mites and powdery mildew.

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

Insect or Disease	Recommended	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup>	Precautions and Notes						
	Product Choices					(days)							
	for use by growers as												
							pt in Groups 1B and 4-4A will also control any leafroller and						
		bud moth larvae present. Avoid using Group 4 products more than twice/season for all registered uses to prevent mite problems. Group 4 products will											
	also control aphids and leafhoppers present. To minimize the development of resistance, if a product was used in the spring, do not use again in the												
	summer.	, ,		_									
Eyespotted Bud	Chlorantraniliprole	28	73 - 143 g	30 - 58 g	12 h	5	Apply at pink to petal fall when larvae are active. Do not						
Moth	(Altacor MaX) 34654						apply more than 3 times per season. Spray interval - 10 to days.						
	abamectin +	6 + 28	496 mL	201 mL	12 h	28	Add 0.25 - 1% spray oil/ spray mixture. Also controls						
	cyantraniliprole						leafroller and mites. Maximum 1 application per season						
	(Minecto Pro) 33023												
	spinosad (Success) 26835	5	182 mL	74 mL	dry	7	Do not apply more than 3 times/season. Spray interval: 7						
	cyantraniliprole	28	500- 1000 mL	202- 404 mL	12 h	3	10 days.  Do not apply more than 4 times per season. Do not tank r						
	(Exirel) 30895	20	300- 1000 IIIL	202- 404 IIIL	1211	٦	with Sovran, Flint, Pristine, copper or captan fungicides						
	(EXIIEI) 30093						Toxic to bees. Spray interval: 10 to 14 days.						
	spinosad (Entrust)	5	364 mL	147 mL	dry	7	Do not apply more than 3 times per season. Spray interval						
	30382		304 IIIL	147 1115	l diy	'	to 10 days.						
	spinetoram	5	210-420 g	85-170 g	12 h	7	Apply at first egg hatch. Use the higher rate under high pe						
	(Delegate) 28778		3				pressure and/or larger larvae. Spray interval: 14 days.						
	chlorantraniliprole	28	145-285 g	59-115 g	12 h	5	Apply when larvae are active. Do not apply more than 3						
	(Altacor) 28981		•				times per season.						
	Notes: Blocks with high populations the previous summer should be sprayed at pink followed by a petal fall spray. Blossom sprays applied against												
		ntrol bud		An effective spring cor	trol prog	ram will re	educe the need to control the summer generation.						
Obliquebanded	Chlorantraniliprole	28	73 - 143 g	30 - 58 g	12 h	5	Apply when larvae become active. Do not apply more than						
and Threelined	(Altacor MaX) 34654						times/ season. Spray interval: 10 to 14 days (see label).						
Leafrollers	GS-omega/kappa-	32	1.2 - 2.3 L	486 - 931 mL	4 h	0	Tank mix with the low labelled rate of a Bacillus thuringien						
	Hxtx-Hv1a (Spear						(Bt) product registered on the same crop for control of						
	Lep) 34678						caterpillars such as Bioprotec, Dipel or Foray. Use a						
							spreader/sticker or non-ionic surfactant (0.125%) to enhar the adhesion of Spear Lep.						
	tetraniliprole	28	225 ml	91 ml	12	7 days	Max 3 applications per year. Toxic to bees. Do not apply						
	(Vayego 200 SC)	-		• • • • • • • • • • • • • • • • • • • •	hours	, .	during pre-bloom or blooming period. Apply post-bloom or						
	33711						3 F 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
	abamectin +	6 + 28	496 mL	201 mL	12 h	28	Add 0.25 - 1% spray oil/ spray mixture. Also controls mite						
	cyantraniliprole						Maximum 1 application per season.						
	(Minecto Pro) 33023												
	cyclaniliprole	28	1.2 - 1.6 L	485 - 647 ml	12	7 days	Toxic to bees. Do not make more than 3 applications pe						

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

nsect 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
	(Harvanta 50SL) 32889						crop year. Where possible, rotate the use of Harvanta or other Group 28 insecticides with different groups that contrathe the same pests.
	spinosad (Success) 26835	5	182 mL	74 mL	dry	7	Do not apply Group 5 products (Success, Entrust, Delegat more than 3 times/season. Will also control eyespotted bu moth larvae present. Spray interval: 7 to 10 days.
	cyantraniliprole (Exirel) 30895	28	500- 1000 mL	202- 404 mL	12 h	3	Monitor adult moth flight and apply at first egg hatch. Do n tank mix with Sovran, Flint, Pristine, copper or captan fungicides. Toxic to bees. Spray interval: 10 to 14 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	7	Do not apply more than 3 times per season. Will also cont eyespotted bud moth. Will reduce pansy spot. Spray interv 7 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 high rate under high pest pressure and/or larger larvae. Will als control eyespotted bud moth present. Spray interval: 14 days.
	methoxyfenozide (Intrepid) 27786	18	0.75 L	304 mL	12 h	14	Do not apply more than 2 time/season. Will also control eyespotted bud moth. Spray interval: 14 to 21 days.
	chlorantraniliprole (Altacor) 28981	28	145-285 g	59-115 g	12 h	5	Monitor adult moth flight and apply at first egg hatch. Do n apply more than 3 times/season, for rates above 215 g/ha (87 g/ac), do not apply more than twice/season.
	tebufenozide (Confirm) 24503	18	1 L	405 mL	dry- 12 h		Do not apply more than 4 times/season. Will also contro eyespotted bud moth.
	pheromone (Isomate CM/LR TT) 28814	NC	750	300	n/a	0	Install before first moth flight. Will also aid in control of summer generation of codling moth.
	<b>Notes:</b> Altacor, Confi satisfactory control.	rm, Intre	pid, Delegate, Exirel,	Success, Bt products	and Twir	Guard are	e stomach poisons so complete coverage is important for
Tentiform Leafminer	acetamiprid + novaluron (Cormoran) 33353	4 + 15	700 ml	283	12 hrs to 7 days	14 days	Do not apply more than 6.9 L/ha. Spray interval - 12 days REIs: 7 days for thinning, 12 hours for all other activities
	abamectin + cyantraniliprole (Minecto Pro) 33023	6 + 28	496 mL	201 mL	12 h	28	Apply against egg (to control new hatch) and early sap feeder stages of first and second generation tentiform leafminers when locally established thresholds have bee reached. Add 0.25 - 1% spray oil/ spray mixture. Also controls leafroller and mites. Maximum 1 application per season.

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

Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup>	Precautions and Notes
	Mek SC) 31607					(days)	once/season. Will also control leaf and rust mites. Residual
	Wek 30) 31007						control: 21 days.
	acetamiprid (Assail)	4	80-120 g	32-48 g	12 h-6	7	Will also control aphids and leafhoppers. Do not apply more
	27128				days		than twice per season alone or alternately. Spray interval -
							12 days. REIs of 2 days for scouting and 6 days is for
	spinetoram	5	210-420 g	85-170 g	12 h	7	thinning.  Apply at egg hatch or first sign of sap-feeder larvae. Do not
	(Delegate) 28778	3	210-420 g	03-170 g	1211	'	apply more than 3 times per season. Use higher rate under
	(Delegate) 20110						high pest pressure. Spray interval: 14 days.
	Notes: Will also cont	rol aphic	ls and leafhoppers. Do	not apply more than t	wice per	r season a	llone or alternately. Spray interval: minimum 10 days. Admire
	and Alias will no long	er be re	gistered for use by gro	wers as of April 11, 20	21.		
							generation tissue-feeder larvae in the spring will provide
Annia Orain Anhid							for resistance management.
Apple Grain Aphid	acetamiprid + novaluron	4 + 15	700 - 1050 ml	283 - 425 ml	12 hrs to 7	14 days	Do not apply more than 6.9 L/ha. Spray interval - 12 days. REIs: 7 days for thinning, 12 hours for all other activities.
	(Cormoran) 33353				days		Reis. 7 days for triffining, 12 flours for all other activities.
	tetraniliprole	28	150 ml	61 ml	12	7 days	Suppression only. Max 3 applications per year. Toxic to
	(Vayego 200 SC)				hours		bees. Do not apply during pre-bloom or blooming period.
	33711						Apply post-bloom only.
	Mineral oil (Suffoil-	NC	10 L/1000 L of water	10 L/1000 L of water	12	0	Test for crop tolerance before widespread use. Apply every
	X) 33099				hours		10 - 14 days, depending on level of pest pressure. Do not use
							within 14 days before or after captan fungicide. Do not apply
	flupyradifurone	4D	500-750 mL	202-304 mL	12 h	14	more than 8 applications per year.  Minimum interval between applications: 10 days. Maximum
	(Sivanto Prime)	70	300-730 IIIL	202-30 <del>4</del> IIIL	1211	'-	amount per season: 2000 mL/ha (810 mL/acre). Chemical
	31452						control is rarely needed.
Apple Aphid	acetamiprid +	4 + 15	700 - 1050 ml	283 - 425 ml	12 hrs	14 days	Do not apply more than 6.9 L/ha. Spray interval - 12 days.
	novaluron				to 7		REIs: 7 days for thinning, 12 hours for all other activities.
	(Cormoran) 33353		450	0.4	days		
	tetraniliprole	28	150 ml	61 ml	12	7 days	Suppression only. Max 3 applications per year. Toxic to bees. Do not apply during pre-bloom or blooming period.
	(Vayego 200 SC) 33711				hours		Apply post-bloom only.
	Mineral oil (Suffoil-	NC	10 L/1000 L of water	10 L/1000 L of water	12	0	Test for crop tolerance before widespread use. Apply every
	X) 33099				hours		10 - 14 days, depending on level of pest pressure. Do not use
							within 14 days before or after captan fungicide. Do not apply
							more than 8 applications per year.
	afidopyropen	9D	0.1 L	0.04 L	12 hrs	7 days	Allow 7 days between applications. Do not apply more than 4
	(Versys) 33266	1				I	times per season. For resistance management, rotate with

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
							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. Maximum amount per season: 2000 mL/ha (810 mL/acre)
	malathion (Malathion 85E) 8372	1B	610 - 880 mL/1000 L water		12 h - 3 days	3	Harmful to beneficial insects that attack aphids. Apply the spray mixture in sufficient volume to ensure thorough coverage. Only two applications per year. Spray interval: 10 days.
	flonicamid (Beleaf) 29796	29	160 g	65 g	12 h-2 days	21	Field reports indicate the rates may not provide satisfactory level of control. 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 1830 mL Movento/ha (741 mL/acre) per season. Also controls woolly apple aphid and apple leaf curling midge. Toxic to bees. Spray interval: minimum 14 days.
	acetamiprid (Assail) 27128	4	80-120 g	32-48 g	12 h-6 days	7	Do not apply Group 4 insecticides more than 2 times/season to avoid possible mite problems. Spray interval - 12 days. REIs of 2 days for scouting and 6 days is for thinning.
	interval: minimum 7 d	days. Ad	mire and Alias will no I	onger be registered fo	r use by	growers a	n 2 times/season to avoid possible mite problems. Spray as of April 11, 2021.
	registered for use by			1 2 time/season to avo	id possit	ole mite pr	oblems. Spray interval: 10 to 14 days. Clutch will no longer b
Rosy Apple Aphid	acetamiprid + novaluron (Cormoran) 33353	4 + 15	700 - 1050 ml	283 - 425 ml	12 hrs to 7 days	14 days	Do not apply more than 6.9 L/ha. Spray interval - 12 days. REIs: 7 days for thinning, 12 hours for all other activities.
	tetraniliprole (Vayego 200 SC) 33711	28	150 ml	61 ml	12 hours	7 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	10 L/1000 L of water	10 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 us within 14 days before or after captan fungicide. Do not appl more than 8 applications per year.
	afidopyropen (Versys) 33266	9D	0.1 L	0.04 L	12 hrs	7 days	Allow 7 days between applications. Do not apply more than times per season. For resistance management, rotate with another insecticide group after 2 applications.
	flupyradifurone (Sivanto Prime)	4D	500-750 mL	202-304 mL	12 h	14	Minimum interval between applications: 10 days. Maximum amount per season: 2000 mL/ha (810 mL/acre).

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	31452						
	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 wit Sovran, Flint, Pristine, copper or captan fungicides. Toxic to bees. Spray interval: 10 to 14 days.
	malathion (Malathion 85E) 8372	1B	610 - 880 mL/1000 L		12 hr - 3 days	3	This product is harmful to beneficial insects that attack aphids. Apply the spray mixture in sufficient volume to ensure thorough coverage. Only two applications per year. Spray interval: 10 days.
	flonicamid (Beleaf) 29796	29	160 g	65 g	12 h-2 days	21	Experience in the field indicates 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 1830 mL Movento/ha (741 mL/acre) per season. Also controls woolly apple aphid. Toxic to bees. Spray interval: minimum 14 days.
	acetamiprid (Assail) 27128	4	80-120 g	32-48 g	12 h-6 days	7	Do not apply this products alone or alternately with other Group 4 products more than twice/season (see additional notes). Will also control white apple leafhopper. Spray interval - 12 days. REIs of 2 days for scouting and 6 days is for thinning.
	mineral oil (Purespray Green) 27666	NC	10 L/1000 L water	10 L/1000 L water	12 h	n/a	Do not use within 14 days before or after captan or sulphur
	alone or alternately of for use by growers as	or agains s of April	t any other pests the re	emainder of the seaso	n. Spray	interval: r	ted in mite problems, do not apply more than twice per seaso minimum 7 days. Admire and Alias will no longer be registere inger be registered for use by growers as of April 11, 2021.
Woolly Apple Aphid	acetamiprid + novaluron (Cormoran) 33353	4 + 15	700 - 1050 ml	283 - 425 ml	12 hrs to 7 days		Do not apply more than 6.9 L/ha. Spray interval - 12 days. REIs: 7 days for thinning, 12 hours for all other activities.
	tetraniliprole (Vayego 200 SC) 33711	28	150 ml	61 ml	12 hours	7 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	10 L/1000 L of water	10 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 us within 14 days before or after captan fungicide. Do not appl more than 8 applications per year.

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Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	malathion (Malathion 85E) 8372	1B	610 mL /1000 L		24 h*	3	This product is harmful to beneficial insects that attack aphids. Apply the spray mixture in sufficient volume to ensure thorough coverage. Only two applications per year Spray interval: 10 days.
	flonicamid (Beleaf) 29796	29	160 g	65 g	12 h-2 days	21	Experience in the field indicates there may be issues with current label rate. 2 days REI for thinning.
	sulfoxaflor (Closer) 30826	4C	400 mL	162 mL	12 h	7	For suppression only. Do not apply more than twice/season Spray interval: minimum 7 days.
	Notes: Do not apply	more tha	n twice/season. Spray	interval: 10 to 14 day	s. Clutcl	h will no lo	nger be registered for use by growers as of April 11, 2021.
Stink Bugs	fenpropathrin (Danitol) 33817	3	779 - 1559 ml	315 - 631 ml	24 h - 23 days	16 days	Toxic to bees. Do not apply during bloom. REI/PHI's: 23 days (thinning), 16 days (hand harvesting), 7 days (scouting hand pruning), 14 days (mechanical harvesting), 24 hours (all other activities). Pests controlled: exclude Brown marmorated stink bug
	some control. Check	•	labels.				n marmorated stink bugs (Actara and Clutch) will provide
White Apple Leafhopper	flupyradifurone (Sivanto Prime) 31452	4D	500-750 mL	202-304 mL	12 h	14	Minimum interval between applications: 10 days. Maximum amount per season: 2000 mL/ha (810 mL/acre).
	acetamiprid (Assail) 27128	4	80-120 g	32-48 g	12 h-6 days	7	Will also suppress aphids and leafminers. Do not apply this products alone or alternately with other Group 4 products more than twice/season (see additional notes). Spray interverse and the second s
	thiacloprid (Calypso) 28429	4	145 mL	59 mL	12 h	30	Do not apply more than twice/season. Spray interval: 14 to 21 days.
	Alias will no longer be	e registe	red for use by growers	as of April 11, 2021.	•		note below. Spray interval: minimum 7 days. Admire and
							nger be registered for use by growers as of April 11, 2021.
			products more than twi			<del></del>	
San Jose Scale	flupyradifurone (Sivanto Prime) 31452	4D	750-1000 mL + 0.25% oil	304-405 mL + 0.25% oil	12 h	14	Minimum interval between applications: 10 days. Maximum amount per season: 2000 mL/ha (810 mL/acre).
	sulfoxaflor (Closer) 30826	4C	200-400 mL	80-160 mL	12 h	7	Do not apply more than twice/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 1830 mL Movento/ha (741 mL/acre) per season. Also controls woolly apple aphid. Toxic to bees. Spray

<sup>&</sup>lt;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.

Insect or Disease	Recommended	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup>	Precautions and Notes					
	Product Choices					(days)						
							interval: minimum 14 days.					
	Notes: Use sufficient	water v	olume to ensure thoro	ugh and uniform cover	age of th	ne tree lim	bs and trunks. Leave lower nozzles on when spraying high					
	density trees in order	to contr	ol scales on the trunk	S.								
Mealybugs	spirotetramat	23	365-585 mL	148-237 mL	12 h		Apply Movento with an adjuvant such as Agral 90 after.					
	(Movento 240 SC)						Minimum interval between applications: 14 days. Maximum					
	28953						1.83 L/ha (741 mL/acre) per season.					
Apple Leaf Curling	spirotetramat	23	365-585 mL	148-237 mL	12 h	7	Suppression only. Maximum of 2 applications per season.					
Midge	(Movento 240 SC)						Minimum interval between sprays: 14 days.					
J	28953											
	spinetoram	5	420 g	170 g	12 h	7	Toxic to bees. Do not apply to flowering crops or weeds if					
	(Delegate) 28778		ŭ				bees are visiting the treatment area. Maximum 3 applications					
	per year. Application interval: 17 days.											
	Notes: Apple leaf cur	Notes: Apple leaf curling midge is not a problem in healthy bearing trees, but it is essential to protect nursery and new plantings. Movento and										
		•	•	earing trees will provide								
Fire Blight	copper octanoate	M1	Prepare 0.5-2%	'	4 h	1	Apply 470-940 L of mixture/ha. Repeat every 7-10 days as					
_	(Cueva Commercial)		solution (5-20				long as weather conditions favour disease development					
	31825		L/1000 L water)				(maximum 6 applications per season). See Fire blight					
			,				description.					
	Notes: There are no products that can be applied to cure fire blight following infection. Preventative copper sprays may help to protect against new											
							areful to disinfect tools between cuts.					
Post-Harvest Rots	pyrimethanil (Scala)	9	1.5-2.0L	607-810 mL	12	14	Apply 2 weeks before harvest to help control storage rots					
Initiated in the	28011				h-24 h		caused by Botrytis and Penicillium. 24 hour REI for thinning.					
Orchard												
Crown and Root	fosetyl-al (Aliette)	33	5.0 kg	2.0 kg	dry	30	See description of crown rot for more information.					
Rot	27688		_				·					
Powdery Mildew	Notes: See petal fall	for avail	able fungicides. Use o	caution with sulphur or	oil spray	s during h	not weather. Jonagold is sensitive to sulphur.					
(Apples)			-	•		_						
Apple Scab	Notes: If no scab is p	resent c	n apple leaves or frui	t by the end of June, so	cab spra	ys are not	needed for the remainder of the season. If scab symptoms					
• •							on to rainy weather. See Petal fall section for available					
				,			•					

Stage of Develo	Stage of Development: Post-Harvest										
Insect or Disease	Recommended	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup>	Precautions and Notes				
	Product Choices					(days)					
Apple Clearwing Moth	novaluron (Rimon) 28515	15	1.4 L/1000 L	1.4 L/1000 L	12 h	14	Apply in September. Direct spray on tree trunk with a hand gun or backpack sprayer. Inspect trunk and limbs for signs of apple clearwing moth damage and spray if present. Do not				

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Stage of Develop	Stage of Development: Post-Harvest											
Insect or Disease	Recommended	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup>	Precautions and Notes					
	Product Choices					(days)						
							apply more than 2 times/season.					
Apple Leaf Curling	spinetoram	5	420 g	170 g	12 h	7	Toxic to bees. Do not apply to flowering crops or weeds if					
Midge	(Delegate) 28778						bees are visiting the treatment area. Maximum 3 applications					
							per year. Application interval: 17 days.					
Fire Blight	Copper hydroxide	M1	4.7 L	1.9 L	48 hrs	2 days	Apply after harvest with 50% leaf drop. Max. two applications					
	(Parasol) 25901						per year.					

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