Stage of Develop	pment: Dormant						
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
Woolly Apple Aphid	mineral oil (Purespray Green) 27666	NC	20 L per 1000 L water	20 L per 1000 L water	12 h	0	Do not use within 14 days of sulphur or captan fungicide. Do not apply just prior to or during freezing temperatures or rain.  May cause bark damage on Red Delicious. Maximum 2 dormant applications. Application interval: 10-14 days if summer spray applications are expected during the growing season.
Rosy Apple Aphid	mineral oil (Purespray Green) 27666	NC	20 L per 1000 L water	20 L per 1000 L water	12 h	0	Do not use within 14 days of sulphur or captan fungicide. Do not apply just prior to or during freezing temperatures or rain.  May cause bark damage on Red Delicious. Maximum 2 dormant applications. Application interval: 10-14 days if summer spray applications are expected during the growing season.
Apple Aphid	mineral oil (Purespray Green) 27666	NC	20 L per 1000 L water	20 L per 1000 L water	12 h	0	Do not use within 14 days of sulphur or captan fungicide. Do not apply just prior to or during freezing temperatures or rain.  May cause bark damage on Red Delicious. Maximum 2 dormant applications. Application interval: 10-14 days if summer spray applications are expected during the growing season.
European Red Mite	mineral oil (Purespray Green) 27666	NC	10 L	4 L	12 h	0	For suppression only. Allow 10-14 days between applications. Do not use within 14 days of captan or sulphur.

Stage of Develop	oment: Dormant t	o Silv	er 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)	
Ambrosia Beetle							Good sanitation is the best management strategy. Remove
							e vigour is important as ambrosia beetles are attracted to trees
	weakened by drought	t, transp	lanting, disease, etc. S	See description of amb	rosia be	etles for m	nore information on the life cycle and methods to intercept
	female beetles flying	into orch	nard.				
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 per

<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.

Stage of Develo	pment: Dormant t	o Silv	er 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)	
	isolate J (LifeGard						hectare. Begin applications when green tissue is present,
	WG) 32526						prior to infection period. For suppression of shoot blight, start
							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
							0.1% could help to improve the spreading.
	Copper hydroxide	M1	4.7 L	1.9 L	48 hrs	2 days	Apply in sufficient water for complete coverage. Max. two
	(Parasol) 25901						applications per year.
	copper octanoate	M1	Prepare 0.5-2%		4 h	1	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
							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)						

	pment: Silver Tip		•		D=12	<b>5.113</b>	
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.

<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
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.
	mineral oil (Purespray Green) 27666	NC	20 L per 1000 L water	20 L per 1000 L water	12 h	0	Do not use within 14 days of sulphur or captan fungicide. Do not apply just prior to or during freezing temperatures or rain May cause bark damage on Red Delicious. Maximum 2 dormant applications. Application interval: 10-14 days if summer spray applications are expected during the growing season.
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.
	mineral oil (Purespray Green) 27666	NC	20 L per 1000 L water	20 L per 1000 L water	12 h	0	Do not use within 14 days of sulphur or captan fungicide. Do not apply just prior to or during freezing temperatures or rain May cause bark damage on Red Delicious. Maximum 2 dormant applications. Application interval: 10-14 days if summer spray applications are expected during the growing season.
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.
·	mineral oil (Purespray Green) 27666	NC	20 L per 1000 L water	20 L per 1000 L water	12 h	0	Do not use within 14 days of sulphur or captan fungicide. Do not apply just prior to or during freezing temperatures or rain May cause bark damage on Red Delicious. Maximum 2 dormant applications. Application interval: 10-14 days if summer spray applications are expected during the growing season.
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 prio 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

<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
							damage on Red Delicious.
	mineral oil (Purespray Green) 27666	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 prio to or during freezing temperatures or rain. May cause bark 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 prio 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	20L/1000 L of Water	12 h	0	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.
	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 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.
	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 o when conditions are conducive to disease development.  Application interval: before 350 degree hours (base 0 degrees C) after the beginning of the infection.

<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
	(Parade) 34526						or other group 7 fungicides before switching to a non-group fungicide.
	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 application 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 scal control. Use high rate for mildew. Rotate with other fungicid groups for resistance management. Do not apply more that 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. Repervery 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 protectan 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 blossed 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

<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
	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 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 Grou 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 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	6.0kg	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.

<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
		avs are	Lest used in a protecti	ve program. However	thev car		soon after an infection period and still provide control.
	Notes: Foliage is sus						s if wet weather is forecast. See apple scab description for
	more information.				1		I <del>-</del>
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 if 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 ever 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 Para 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 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,

<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
	(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 tight 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 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) 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 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 a days during rainy weather or during periods of high relative humidity.

<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
	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.
	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 injure 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 season 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 Tranguility) 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 (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 Flint, Sovran, Pristine, copper or captan. Toxic to bees. Spray interval: 10

<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
							to 14 days.
	spinetoram (Delegate) 28778	5	210-420 g	85-170 g	12 h	7	Apply when larvae are active. Use the higher rate under high pest pressure and/or larger larvae. Spray interval: 14 days.
	chlorantraniliprole (Altacor) 28981	28	145-285 g	59-115 g	12 h	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 of moths.
Powdery Mildew	Notes: Apply dispens	sers befo	ore moths begin to em	erge in the spring follo	wing lab	el instruct	ions for dispenser rates and application to trees.

<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.

Stage of Develo 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
(Apples)	(Property 300SC) 32534						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 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

<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
							year: 4. Apply to foliage during the fruiting stage.
	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- X) 33099	NC	10 L/1000 L of water		12 hours	0	Test for crop tolerance before widespread use. Apply at tight 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 peyear.
	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, 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 group 3 fungicides (Nova, Inspire, Fullback) to 2 sprays/season.
	potassium bicarbonate	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

<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.

nsect 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)	
	(MilStop) 28095						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. 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 structures (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 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	Avoid more than 2 consecutive applications. Limit sprays o Group 11 fungicides (Flint, Sovran, Pristine) to 2 per seasor 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 from	different groups for i	esistance managemer			
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.

<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
	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.
	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

<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
							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. Repeatively 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 Group 11 fungicides (Flint, Sovran, Pristine) to 2/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.

Stage of Develo	pment: Pink						
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	pyraclostrobin (Pristine WG) 27985				12 days		Group 11 fungicides (Flint, Sovran, Pristine) to 2/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	6.0 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.
	Notes: Pink through period.	petal fall	is a high risk period fo	or scab infection. Prev	ent infec	tion by ke	eping trees covered with protectant fungicides during this
	Notes: Eradicant spra apple scab in Disease				er they o	an be use	ed soon after an infection period and still provide control. See

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.

<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
	Bacillus thuringiensis (Foray) 24978	11	4.0 L	1.6 L	24 h*	0	Will also control bud moth.
	hours. If there is more	e than 2	mm rainfall within 24		oly produ		ernoon or on a cloudy day when no rain is forecast for 24 days (in the absence of rain) before applying a second
reen Fruitworms	Bacillus thuringiensis (Bioprotec PLUS) 32425	11	1.8-2.5 L	0.7-1.3 L	24 h*	0	Will also control other leaf-feeding larvae present. See Notes.
	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.
	Bacillus thuringiensis (Foray) 24978	11	4.0 L	1.6 L	24 h*	0	Will also control bud moth.
Obliquebanded and Threelined Leafrollers	Bacillus thuringiensis (Bioprotec PLUS) 32425	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See Notes.
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4.0 L	1.6 L	24 h*	0	Will also control bud moth.
	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 L	1.6 L	24 h*	0	Will also control other leaf-feeding larvae present.
	hours. If there is more	e than 2	mm rainfall within 24		oly produ		ernoon or on a cloudy day when no rain is forecast for 24 days (in the absence of rain) before applying a second
Fire Blight	copper octanoate	M1	Prepare 0.5-2%		4 h	1	Apply 470-940 L of mixture/ha (190-380 L/acre). Repea

<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.

Stage of Develo	pment: Blossom						
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
	(Cueva Commercial) 31825		solution (5-20 L/1000 L water)				every 7-10 days as long as weather conditions favour disease development (maximum 6 sprays/season). See Fire blight description.
	Bacillus amyloliquefaciens (Double Nickel 55) 31888	44	1-1.5 kg	405-607 g		0	Suppression only. Apply at blossom to end of flowering at 3- to 7-day intervals. Can be mixed with copper sprays. Can be applied post-bloom for shoot blight management.
	prohexadione calcium (Apogee) 28042	n/a	1350 g	546 g	12 h	45	For suppression of shoot blight, apply at 2.5 to 7.5 cm of new shoot growth. Will also reduce shoot growth.
	Aureobasidium pullulans (Blossom Protect) 30552	NC	See Label	See Label	dry	n/a	Apply up to 4 times from 10-90% bloom if weather conditions favour blossom infection. Do not tank mix with other fungicides.
	streptomycin sulphate (Streptomycin 17) 10305	25	1.8 kg or 100 ppm (see notes)	729 g or 100 ppm (see notes)	24 h-14 days	50	Apply at blossom stage if weather conditions favour blossom infection. Maximum 3 applications (5.4 kg/ha/season). 100 ppm rate (600 g of Streptomycin per 1000 L of water) is based on high volume spray. Use sufficient water volume for thorough blossom wetting. 14 day REI for thinning.
	kasugamycin (Kasumin) 30591	24	5.0 L	2.0 L	12 h	90	Apply at 20-30% bloom or when conditions favour disease development. Do not apply after petal fall.
	Bacillus subtilis (Serenade Opti) 31666	44	1.1-1.7 kg	445-688 g	24 h*	0	Suppression only. Apply at 1-5% blossom and repeat as needed during the blossom period.
	Notes: Warm weather based on temperature		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
Crown and Root Rot	fosetyl-al (Aliette) 27688	33	5.0 kg	2.0 kg	dry	30	See description of crown rot for more information.

Stage of Develop	oment: Petal fall	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)	
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		

<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
	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	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 stage 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 day 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.
		e per se	ason. The presence ar	nd number of predator	y mites s		of pesticide resistance. Do not apply products from the same t be determined using a mite counting service before spraying
McDaniel,				ough and uniform cov	erage.		
I wospotted Spider	pyridaben (Nexter SC) 33433	21	500 - 1000 ml	202 404 ml	erage. 24 h	25 days	Do not apply more than twice per year. Controls rust mite.  Residual control: 7-10 days.
Twospotted Spider Mites		21 + 39				25 days 10 days	
-	SC) 33433 fenazaquin (Magister SC) 34544 Mineral oil (Suffoil- X) 33099	21 +	500 - 1000 ml 1.75 - 2.34 L 10 L/1000 L of water	202 404 ml 0.7 - 0.95 L 10 L/1000 L of water	24 h 12 h - 17 days 12 hours		Residual control: 7-10 days.  Toxic to bees. Avoid application during bloom. Maximum number of applications: 1  Test for crop tolerance before widespread use. Apply even 10 - 14 days, depending on level of pest pressure. Do not us
-	SC) 33433 fenazaquin (Magister SC) 34544 Mineral oil (Suffoil-	21 + 39 NC	500 - 1000 ml 1.75 - 2.34 L	202 404 ml 0.7 - 0.95 L 10 L/1000 L of water 10 L/1000 L of water	24 h  12 h - 17 days  12 hours	10 days 0	Toxic to bees. Avoid application during bloom. Maximum number of applications: 1  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.  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.
Twospotted Spider Mites	SC) 33433 fenazaquin (Magister SC) 34544 Mineral oil (Suffoil- X) 33099  Mineral oil (Suffoil-	21 + 39	500 - 1000 ml 1.75 - 2.34 L 10 L/1000 L of water	202 404 ml 0.7 - 0.95 L 10 L/1000 L of water	24 h  12 h - 17 days  12 hours	10 days	Residual control: 7-10 days.  Toxic to bees. Avoid application during bloom. Maximum number of applications: 1  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.  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

<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)	
	acequinocyl	20B	2.1 L	850 mL	12 h	14	Do not apply more than 2 times/season. Does not control
	(Kanemite) 28641						rust mites. Spray interval: 21 days.
	pyridaben (Nexter)	21	300 - 600 g	120 - 240 g	24 h	25	Use highest rate. Do not apply more than 2 times/season.
	25135						Controls rust mite. Residual control: 7-10 days.
	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)	10	300 - 600 mL	120 - 240 mL	4 - 12	21	Do not apply more than once/season or beyond more than
	21035				h		14 days after petal fall. Controls eggs and young mites. Dos 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	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
	34544				days		
	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 14 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	28	145-285 g	59-115 g	12 h	5	Apply when larvae are active. Do not apply more than 3

<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				1	(days)	
	(Altacor) 28981						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.
	acetamiprid + novaluron (Cormoran) 33353	4 + 15	1050 ml	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.
	Bacillus thuringiensis (Bioprotec PLUS) 32425	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See Notes. Spray interval: 7 days under optimal conditions.
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4.0 L	1.6 L	24 h*	0	Thorough coverage is very important. Will also control bud moth and leafroller 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	Thorough coverage is very important. Will also control bud moth and leafroller larvae present. Spray interval: 7 days under optimal conditions.
	Bacillus thuringiensis (Foray) 24978	11	4.0 L	1.6 L	24 h*	0	Thorough coverage is very important. Will also control bud moth and leafroller larvae present. Spray interval: 7 days under optimal conditions.
	chlorantraniliprole (Altacor) 28981	28	145-215 g	59-87 g	12 h	5	Do not apply more than 3 times/season. Spray interval - 10 to 14 days. Spray interval - 10 to 14 days.
Obliquebanded and Threelined	Chlorantraniliprole (Altacor MaX) 34654	28	73 - 143 g	30 - 58 g	12 h	5	Apply when larvae become active. Do not apply more than 3 times/ season. Spray interval: 10 to 14 days (see label).
Leafrollers	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 thuringiensis (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.
	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 only
	abamectin + cyantraniliprole (Minecto Pro) 33023	6 + 28	496 mL	201 mL	12 h	28	Monitor larval population in the spring, and apply when over wintering larvae become active. Add 0.25 - 1% spray oil/ spray mixture. Also controls mites. Maximum 1 application per season.
	cyclaniliprole (Harvanta 50SL)	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

<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
	32889						other Group 28 insecticides with different groups that control the same pests.
	Bacillus thuringiensis (Bioprotec PLUS) 32425	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See Notes. Spray interval: 7 days under optimal conditions.
	spinosad (Success) 26835	5	182 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 up 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 interval: 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 219 g/ha (87 g/ac), do not apply more than twice/season. Spray 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 interval: 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.

<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				
	Notes: Confirm, Intre	pid, Dele	egate, Success, Entru	st, Bt products, Exirel	and Alta	cor are sto	omach poisons so complete coverage is important for				
	satisfactory control. T	These pro	ducts will also control	l any bud moth larvae	present.	Success,	Entrust and Delegate will suppress thrips.				
Tentiform	acetamiprid +	4 + 15	700 ml	283	12 hrs	14 days	Do not apply more than 6.9 L/ha. Spray interval - 12 days				
Leafminer	novaluron				to 7		REIs: 7 days for thinning, 12 hours for all other activities.				
	(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 been 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 not apply 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: 1 to 21 days.				
	<b>Notes:</b> Will also control aphids, leafhoppers and campylomma. Do not apply more than 2 times/season alone or alternately with other Group 4 products. Spray interval: minimum 10 days. Admire and Alias will no longer be registered for use by growers as of April 11, 2021.										
							nomic thresholds. Do not apply more than twice/season alor utch will no longer be registered for use by growers as of Ap				
		for the re	est of the season. If ch	emical control is need			generation tissue-feeder larvae in the spring will provide for resistance management. Avoid using Group 4 products				
Mullein Bug	acetamiprid +	4 + 15	840 - 1260 ml	340 - 510 ml	12 hrs	14 days	Do not apply more than 6.9 L/ha. Spray interval - 12 days				
(Campylomma)	novaluron (Cormoran) 33353			3.0 0.0	to 7		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. Spra				

<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.

nsect 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 7 days.
	acetamiprid (Assail)	4	80-160 g	32-64 g	12 h-6	7	Will also control aphids. Do not apply more than
	27128	"	80-100 g	32-04 g	days	'	once/season. See note below regarding repeated use. D
	27 120				uays		not apply during bloom. Spray interval - 12 days. REIs of
							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						regarding repeated use. Spray interval: 14 to 21 days.
		•					note below regarding repeated use. Spray interval: minimu
				red for use by growers			
							nan twice/season for all other registered uses to prevent mi
							y campylomma feeding. Apply as early in petal fall as possil
			ting insects foraging i	n the trees or flowering		cover.	
Fruittree and	abamectin +	6 + 28	496 mL	201 mL	12 h	28	Add 0.25 - 1% spray oil/ spray mixture. Also controls mite
European	cyantraniliprole						Maximum 1 application per season.
Leafrollers	(Minecto Pro) 33023						
	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.
	(Bioprotec PLUS)						
	32425				<u> </u>		
	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	11	4.0 L	1.6 L	24 h*	0	Will also control other leaf-feeding larvae present. Spra
	thuringiensis						interval: 7 days under optimal conditions.
	(Bioprotec CAF)						, ,
	26854						
	Bacillus	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Will also control other leaf-feeding larvae present. Spra
	thuringiensis (Dipel						interval: 7 days under optimal conditions.
	2X DF) 26508						
	cyantraniliprole	28	500 - 1000 mL	202 - 404 mL	12 h	3	Apply when larvae are active. Do not apply more than
	(Exirel) 30895						ti,es/season. Do not tank mix with Sovran, Flint, Pristing
							copper or captan fungicides. TOXIC to bees. Spray inter-
							10 to 14 days.
	spinosad (Entrust)	5	364 mL	147 mL	dry	7	Do not apply more than 3 times/season. Will reduce par
	30382						spot. Spray interval: 7 to 10 days.
	spinetoram	5	210-420 g	85-170 g		7	Do not apply more than 3 times per year for all labeled us
	(Delegate) 28778						Spray interval: 14 days.
	Bacillus	11	4.0 L	1.6 L	24 h*	0	Will also control other leaf-feeding larvae present. Spra
	thuringiensis (Foray)					ĺ	interval: 7 days under optimal conditions.

<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
Western Flower Thrips	24978 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 tha 3 applications per crop year. Where possible, rotate the use of Harvanta or other Group 28 insecticides with different
San Jose Scale	spirotetramat (Movento 240 SC) 28953	23	365-585 mL	148-237 mL	12 h	7	groups that control the same pests.  Toxic to bees. Apply Movento with an adjuvant such as Agr. 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 Agr 90 after petal fall. Do not exceed 1120 mL/ha/season. Spra interval: minimum 14 days. Do not apply until after petal fal 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 interv - 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 f Notes: TOXIC to bee	). Spray or use b s. See r or use b	interval: minimum 7 day y growers as of April of otes above regarding y growers as of April	ays. Admire will no lor 11, 2021. number of application 11, 2021.	ger be re	egistered f up 4 produ	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 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 o 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

<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
							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 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 L/1000 L of water	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	
	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 tigh cluster and continue every 10-14 days. Avoid application during bloom. Do not use within 14 days before or after

<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
							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.
	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 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	11	240 - 450 g	100 - 182 g	48 h	30	CAUTION: Sovran drift may injure cherries. Limit sprays o

<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.

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
	(Sovran) 26257						Group 11 fungicides (Flint, Sovran, Pristine) to 2/season for resistance management. Rotate with fungicides from other groups.
	trifloxystrobin (Flint Extra Fungicide) 34962	11	140 - 210 g	57 - 85 g	12 h – 4 days	14	Limit sprays of Group 11 fungicides (Flint, Sovran, Pristine) 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.
	Notes: Additional not			erent groups for resist		ınagemen	
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

<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
							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 o 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.

<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
	27517				days		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 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 fo 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		with the full rate of a protectant such as Dithane, Manzate
					days		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 o 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) 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 of group 11 fungicides (Flint, Sovran, Pristine) to 2 per seaso 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)	М3	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 a 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 t

<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.

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)	
							foliage of sensitive varieties. Apply at a minimum of a 7-day
							interval.
	Notes: Pink through	petal fall	is a high risk period for	or apple scab infection	. Preven	t infection	by keeping trees covered with protectant fungicides during
	this period.						
	Notes: Eradicant spra	ays are l	pest used in a protective	e program. However	they can	be used	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.

Stage of Develo	pment: Summer						
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount Per Ha	Amount Per Acre	REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
European Red Mite	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.

<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
	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.
	bifenazate (Acramite) 27925	20D	851 g	344 g	12 h	7	Not for rust mite control. Residual control: 21 days.
	once per season. The products in sufficient	e presen water to	ce and number of predensure thorough and	datory mites should firs uniform coverage.	t be det	ermined u	stance. Do not apply products from the same group more thar sing a mite counting service before spraying. Apply the
McDaniel, Twospotted 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 every 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.
	abamectin + cyantraniliprole (Minecto Pro) 33023		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	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 2 times/season. Spray interval: 21 days.
	pyridaben (Nexter) 25135	21	300 - 600 g	120 - 240 g	24 h	25	Maximum two applications per season. Residual control: 7-10 days.
	spirodiclofen (Envidor) 28051	23	750 mL	300 mL	12 h	7	Use only once/season. Spray interval: minimum 7 days.
	bifenazate (Acramite) 27925	20D	851 g	344 g	12 h	7	Does not control rust mites. Residual control: 21 days.
	than once/season. The	ne preva	•	es should first be deter	•		istance. Do not apply products from the same group more counting services before spraying. Apply the products in

<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
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
	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 clearwin 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 clearwin 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

<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
							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.
	<b>Notes:</b> Use pheromorequired to ensure pr	•		ng of adult emergence	. Adult a	ctivity may	occur from early June to mid August, but monitoring is
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 thuringiensi (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 only 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 contro 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. Also

<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.

phosmet (Imidan 70% WP) 29064	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
granulovirus (Virosoft) 26533								
granulovirus (Virosoft) 26533    Controls larvae, will also control interval: 14 of per season. Spray interval: 14 of spray spiretoram (Delegate) 28778   Silow acting, with no leafroller control. Virus to be effective. Apply product in late a father oday to avoid direct exposure to sunlight. S days.    Silow acting, with no leafroller control. Virus to be effective. Apply product in late a father oday to avoid direct exposure to sunlight. S days.   Do not apply more than twice per season. aphids, leafminer & leafftoppers. Toxic to interval - 12 days. REI of 6 days is for control aphids. Deficiency in the per season. Spray interval: 14 of leafrollers. Low toxicity to bees, but his lacewings. Use low rate for first brood if the pressure. Do not exceed a total of 870 mL per season. Spray interval: 14 to 2 novaluron (Rimon)   28515			1B	2.68 kg	1.08 kg	9	22	Controls larvae. Highly toxic to bees. Minimum interval between sprays: 14 days. Max applications per season: 2. A hand thinning must occur prior to application.
acetamiprid (Assail) 27128  4 240 g 97 g 12 h-6 days  12 h-6 days  5 Do not apply more than twice per season. aphids, leafminer & leafhoppers. Toxic to interval - 12 days. REI of 6 days is for thiacloprid (Calypso) 28429  4 290-440 mL 117-178 mL 12 h 30 Controls larvae, will also control aphids. I leafrollers. Low toxicity to bees, but his lacewings. Use low rate for first brood if to pressure. Do not exceed a total of 870 mL  28515  novaluron (Rimon) 28515  spinosad (Entrust) 30382  spinetoram (Delegate) 28778  (Delegate) 28778  methoxyfenozide (Intrepid) 27786  chlorantraniliprole (Altacor) 28981  a 240 g 140 g 97 g 12 h-6 days 170 m 12 h-6 days 170 m 112 h 12 h 12 h 130 Controls larvae, will also control of pressure. Do not exceed a total of 870 mL per season. Spray interval: 14 to 2  controls eggs and larvae. Will also control of pressure. Do not apply more than 4 times or 11 L/ha/sea biological control of mites. Spray interval: 14 h 15 Suppression only. Approved for organic f Spray interval: 7 to 10 days 170 g 12 h 17 Apply at first egg hatch based on pheromore and degree days after biofix. Control larvae fruit. Do not apply more than 3 times per se rate under high pest pressure. Also controls interval: 14 to 2  chlorantraniliprole (Altacor) 28981  a 145-215 g 58-86 g 12 h 5 Apply at first egg hatch based on pheromore and degree days after biofix. Control seggs controls leafroller. Do not exceed 645 g/h season. Will provide control of apple de			NC	250 mL	100 mL		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
leafrollers. Low toxicity to bees, but his lacewings. Use low rate for first brood if le pressure. Do not exceed a total of 870 mL per season. Spray interval: 14 to 2 movaluron (Rimon) 28515			4	240 g	97 g	1	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.
28515 water 1000 L water not apply more than 4 times or 11 L/ha/sea biological control of mites. Spray interval:  spinosad (Entrust) 5 364 mL 147 mL 4 h 7 Suppression only. Approved for organic f Spray interval: 7 to 10 days spinetoram (Delegate) 28778	t		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.
spinetoram 5 420 g 170 g 12 h 7 Apply at first egg hatch based on pheromore and degree days after biofix. Control larvae fruit. Do not apply more than 3 times per se rate under high pest pressure. Also controls interval: 14 days.  methoxyfenozide (Intrepid) 27786			15			12 h		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.
spinetoram (Delegate) 28778  Spinetoram (Spinetoram (Interval: 14 days.  Spinetoram (Interval: 14 days.			5	364 mL	147 mL	4 h	7	Suppression only. Approved for organic fruit production. Spray interval: 7 to 10 days.
(Intrepid) 27786 per season. Spray interval: 14 to 2 chlorantraniliprole (Altacor) 28981 per season. Spray interval: 14 to 2 s		•	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 ente fruit. Do not apply more than 3 times per season. Use highe rate under high pest pressure. Also controls leafroller. Spray
(Altacor) 28981 and degree days after biofix. Controls eggs controls leafroller. Do not exceed 645 g/ha season. Will provide control of apple cle		-	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.
					J	12 h		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.
(Confirm) 24503			18	1 L	405 mL		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 a times/season. Spray interval: 10 to 14 days.  Apply at or just before egg laying. Apply in a minimum of

<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)	
	(Purespray Green)						1000L water/ha. Do not use in combination with or within 14
	27666						days of sulphur or captan. Also provides control of aphids
							and suppression of mites and powdery mildew.
	for use by growers as	s of April	11, 2021.	•	`	,	. Spray interval: 14 days. Clutch will no longer be registered
	bud moth larvae pres also control aphids a summer.	ent. Avo	id using Group 4 prod oppers present. To min	lucts more than twice/snimize the developmen	season font of resi	or all regis	ot in Groups 1B and 4-4A will also control any leafroller and stered uses to prevent mite problems. Group 4 products will a product was used in the spring, do not use again in the
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. Spray interval: 7 to 10 days.
	cyantraniliprole (Exirel) 30895	28	500- 1000 mL	202- 404 mL	12 h	3	Do not apply more than 4 times 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. Spray interval: to 10 days.
	spinetoram (Delegate) 28778	5	210-420 g	85-170 g	12 h	7	Apply at first egg hatch. Use the higher rate under high pes pressure and/or larger larvae. 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.
	leafroller will also cor		moth larvae present.	An effective spring cor			ed by a petal fall spray. Blossom sprays applied against educe the need to control the summer generation.
Obliquebanded and Threelined	Chlorantraniliprole (Altacor MaX) 34654	28	73 - 143 g	30 - 58 g	12 h	5	Apply when larvae become active. Do not apply more than times/ season. Spray interval: 10 to 14 days (see label).
Leafrollers	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.
	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 only

<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.

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
	abamectin + cyantraniliprole (Minecto Pro) 33023	6 + 28	496 mL	201 mL	12 h	28	Add 0.25 - 1% spray oil/ spray mixture. Also controls 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 continue 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 intervolution 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 r apply more than 3 times/season, for rates above 215 g/h (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 control 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, Confisatisfactory control.	irm, Intre	oid, 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 day 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 been

<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)	
							reached. Add 0.25 - 1% spray oil/ spray mixture. Also
							controls leafroller and mites. Maximum 1 application per
	-h / A		470 1	001	-1	00	season.
	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 leaf and rust mites. Residual 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 thinning.
	spinetoram	5	210-420 g	85-170 g	12 h	7	Apply at egg hatch or first sign of sap-feeder larvae. Do not
	(Delegate) 28778						apply more than 3 times per season. Use higher rate under
							high pest pressure. Spray interval: 14 days.
						r season a	lone or alternately. Spray interval: minimum 10 days. Admire
			gistered for use by gro				
							generation tissue-feeder larvae in the spring will provide
<del> </del>							for resistance management.
Apple Grain 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	041	days	7 -1	Our managing and Manager and Stations are assumed Table to
	tetraniliprole	28	150 ml	61 ml	12	7 days	Suppression only. Max 3 applications per year. Toxic to
	(Vayego 200 SC) 33711				hours		bees. Do not apply during pre-bloom or blooming period.  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.
	flupyradifurone	4D	500-750 mL	202-304 mL	12 h	14	Minimum interval between applications: 10 days. Maximum
	(Sivanto Prime) 31452						amount per season: 2000 mL/ha (810 mL/acre). Chemical control is rarely needed.
	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.
Apple Aphid		I			to 7		REIs: 7 days for thinning, 12 hours for all other activities.
Apple Aphid	novaluron				I	1	, <u> </u>
Apple Aphid					days		
Apple Aphid	novaluron	28	150 ml	61 ml	days 12	7 days	Suppression only. Max 3 applications per year. Toxic to
Apple Aphid	novaluron (Cormoran) 33353 tetraniliprole (Vayego 200 SC)	28	150 ml	61 ml		7 days	bees. Do not apply during pre-bloom or blooming period.
Apple Aphid	novaluron (Cormoran) 33353 tetraniliprole	28 NC	150 ml		12	7 days	

<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
							within 14 days before or after captan fungicide. Do not apply 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 a times per season. For resistance management, rotate with another insecticide group after 2 applications.
	flupyradifurone (Sivanto Prime) 31452	4D	500-750 mL	202-304 mL	12 h	14	Minimum interval between applications: 10 days. Maximum amount per season: 2000 mL/ha (810 mL/acre)
	malathion	1B	610 - 880 mL/1000		12 h -	3	Harmful to beneficial insects that attack aphids. Apply the
	(Malathion 85E) 8372		L water		3 days		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/seasor 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	
	registered for use by	•	as of April 11, 2021.				roblems. Spray interval: 10 to 14 days. Clutch will no longer be
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 apply more than 8 applications per year.
	afidopyropen	9D	0.1 L	0.04 L	hours 12 hrs	7 days	within 14 days before or after captan fungicide. D

<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
	(Versys) 33266						times per season. For resistance management, rotate with another insecticide group after 2 applications.
	flupyradifurone (Sivanto Prime) 31452	4D	500-750 mL	202-304 mL	12 h	14	Minimum interval between applications: 10 days. Maximum amount per season: 2000 mL/ha (810 mL/acre).
	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	r agains s of April	t any other pests the re	emainder of the seaso	n. Spray	ı interval: ı	ted in mite problems, do not apply more than twice per seaso minimum 7 days. Admire and Alias will no longer be registered
Woolly Apple Aphid	acetamiprid + novaluron (Cormoran) 33353	4 + 15	700 - 1050 ml	283 - 425 ml	12 hrs to 7 days		nger be registered for use by growers as of April 11, 2021.  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.

<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
	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 apply more than 8 applications per year.
	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	ŭ	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.
							onger 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
	Notes: There are no some control. Check			L eld advisor. Products r	egistere	l ed for brow	vn 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 interva - 12 days. REIs of 2 days for scouting and 6 days is for thinning.
	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	ered for use by growers	as of April 11, 2021.			note below. Spray interval: minimum 7 days. Admire and
							onger be registered for use by growers as of April 11, 2021.
	<u> </u>		products more than twi				
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)	4C	200-400 mL	80-160 mL	12 h	7	Do not apply more than twice/season. Spray interval:

<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)	mainima uma 7 da ua
	30826	22	365-585 mL	148-237 mL	10 6	7	minimum 7 days.
	spirotetramat (Movento 240 SC)	23	305-585 IIIL	148-237 ML	12 h	'	Apply Movento with an adjuvant such as Agral 90. Do not exceed 1830 mL Movento/ha (741 mL/acre) per season.
	28953						
	20953						Also controls woolly apple aphid. Toxic to bees. Spray interval: minimum 14 days.
	Notes: Use sufficient	water v	olume to ensure thoro	ugh and uniform cove	rage of th	he tree lim	abs and trunks. Leave lower nozzles on when spraying high
	density trees in order			•			
Mealybugs	spirotetramat	23	365-585 mL	148-237 mL	12 h		Apply Movento with an adjuvant such as Agral 90 after.
	(Movento 240 SC) 28953						Minimum interval between applications: 14 days. Maximum 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.
	28953					<u> </u>	
	spinetoram	5	420 g	170 g	12 h	7	Toxic to bees. Do not apply to flowering crops or weeds if
	(Delegate) 28778						bees are visiting the treatment area. Maximum 3 applications per year. Application interval: 17 days.
	Notes: Apple leaf cur Cygon/Lagon applied	•	•				to protect nursery and new plantings. Movento and
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.
							entative 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 Orchard	28011				h-24 h		caused by Botrytis and Penicillium. 24 hour REI for thinning.
Crown and Root Rot	fosetyl-al (Aliette) 27688	33	5.0 kg	2.0 kg	dry	30	See description of crown rot for more information.
Powdery Mildew (Apples)	Notes: See petal fall	for avail	able fungicides. Use o	aution with sulphur or	oil spray	s during h	not weather. Jonagold is sensitive to sulphur.
Apple Scab	Notes: If no scab is p	resent c	n apple leaves or fruit	by the end of June, s	cab spra	ys are not	t needed for the remainder of the season. If scab symptoms
		protecta	ant fungicide coverage	until harvest, with par			on to rainy weather. See Petal fall section for available

<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.

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	novaluron (Rimon)	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
Moth	28515						gun or backpack sprayer. Inspect trunk and limbs for signs of
							apple clearwing moth damage and spray if present. Do not
							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.
Rosy Apple Aphid	mineral oil	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.
	(Purespray Green)						
	27666						
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.

<sup>43 / 43</sup> 

<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.