Insect or Disease	Recommended Product Choices	Grp¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
Ambrosia Beetle	large wood piles and	pruning t, transp	s from the orchard.Cul lanting, disease, etc. \$	tural control by mainta	ining op	timum tree	. Good sanitation is the best management strategy. Remove evigour is important as ambrosia beetles are attracted to tree nore information on the life cycle and methods to intercept
Fire Blight	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.
	bacillus mycoides isolate J (LifeGard WG) 32526	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 properties. Begin applications when green tissue is present, prior to infection period. For suppression of shoot blight, state 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 (Buran) 30601	NC	1.4% (500 to 800 L of water)	1.4% (202 to 323 L of water)		0	Apply before wetting events when conditions are conducive to infection; reapply as needed. The addition of a registere non-ionic surfactant such as Agral 90 or AgSurf at a rate of 0.1% could help to improve the spreading.
	Copper hydroxide (Parasol) 25901	M1	4.7 L	1.9 L	48 hrs	2 days	Apply in sufficient water for complete coverage. Max. two applications per year.
	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) as a dormant spray as buds begin to swell, repeating at the bu 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 like to be effective.
	copper oxychloride (Copper Spray 19146)	M1	4kg	1.6kg	48 h	n/a	Remove cankers by March 31. See fire blight description

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

Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (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.
Apple Aphid	afidopyropen (Versys) 33266	9D	0.1 L	0.04 L	12 hrs	7 days	Allow 7 days between applications. Do not apply more than 4 times per season. For resistance management, rotate with another insecticide group after 2 applications.
	sulfoxaflor (Closer) 30826	4C	100-200 mL	40-80 mL	12 h	7	Do not apply more than 2 times/season. Spray interval: minimum 7 days.
Woolly Apple Aphid	sulfoxaflor (Closer) 30826	4C	400 mL	162 mL	12 h	7	Suppression only. Do not apply more than 2 times/season. Spray interval: minimum 7 days.
Apple Leaf Curling Midge	spinetoram (Delegate) 28778	5	420 g	170 g	12 h	7	Toxic to bees. Do not apply to flowering crops or weeds if bees are visiting the treatment area. Maximum 3 applications per year. Application interval: 17 days.
San Jose Scale	mineral oil (Superior 70) 14981	NC	60 L	24 L	12 h	n/a	Apply once at green tip to 1 cm green stage. Do not use prior to or during freezing temperatures or rain. May cause bark damage on Red Delicious.
	mineral oil (Guardsman) 23370	NC	90 L	36 L	12 h	n/a	Apply once at green tip to 1 cm green stage. Do not use prior to or during freezing temperatures or rain. May cause bark damage on Red Delicious.
	mineral oil (Purespray Green)	NC	20L/1000 L of Water	20L/1000 L of Water	12 h	0	Apply once at green tip to 1 cm green stage. Do not use prior to or during freezing temperatures or rain. May cause bark

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
	27666						damage on Red Delicious.
European Red Mite	mineral oil (Superior 70) 14981	NC	60 L	24 L	12 h	n/a	Apply once at green tip to 1 cm green stage. Do not use 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	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.
	pyraziflumid (Parade) 34526	7	227-340 ml	92-138 ml	12 h	7 days	Do not apply more than 2 consecutive applications of Parade or other group 7 fungicides before switching to a non-group fungicide.

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
	Edge 31869, Kumulus 18836, Microthiol 29487						before, or closely following oil sprays.
	pyraclostrobin + fluxapyroxad (Merivon) 33951	7 + 11	0.3 - 0.4 L	0.12 - 0.16 L	12 h - 12 days	5 days (hand harvest)	Limit sprays of Group 11 fungicides to 2 sprays/season. REI's: hand thinning - 12 days, hand harvesting - 5 days, mechanical harvesting and all other activities - 12 hours.
	mefentrifluconazole (Cevya) 33405	3	0.25 - 0.375 L	0.1 - 0.15 L	12 hours	0	Do not make more than 2 sequential applications before alternating to a non-group 3 fungicide registered for the same use. Begin applications prior to disease development Apply an additional applic. at an interval of 7 - 10 days if disease persists or weather conditions are favourable for disease development.
	Isofetamid (Kenja) 31758	7	913 ml	369 ml	12 hours	20	Do not apply more than 2 consecutive Group 7 applications Application interval: 10 to 14 days.
	benzovindiflupyr + difenoconazole (Aprovia Top) 31526	3+7	386 - 643 mL	156 - 260 mL		30	Tank mix with protectant fungicide for improved fruit scab control. Use high rate for mildew. Rotate with other fungicid groups for resistance management. Do not apply more tha 2.57 L/ha/season.
	copper octanoate (Cueva Commercial) 31825	M1	Prepare 0.5-2% solution (5-20 L/1000 L water)		4 h	1	Apply 470-940 L of mixture/ha (190-380 L/acre). Do not exceed 1% rate for varieties susceptible to russeting. Repe every 7-10 days as long as weather conditions favour disease development.
	benzovindiflupyr (Aprovia) 31981	7	300-500 mL	121-202 mL	12 h	30	For improved fruit scab control, tank mix with a protectant fungicide (see label). Rotate with other non-Group 7 products. Do not apply in two consecutive sprays nor more than 2 L/ha (1.0 L/acre) per season.
	fluxapyroxad (Sercadis) 31697	7	167-333 mL	68-135 mL	12 h	0	The use of a non-ionic surfactant (0.125%) is recommended. Begin treatment when conditions favour disease development. Apply a second spray 7-14 days up to blossor if conditions for disease development persist. Maximum amount per season: 1.33 L/ha (538 mL/acre). Maximum applications per season.
	fluazinam (Allegro) 27517	29	0.50-1.0 L	202-404 mL	24 h-3 days	28	Use highest rates and shortest intervals for high disease pressure. Will also suppress European red mite, apple rus mite and two spotted spider mites. 3 days REI for thinning
	difenoconazole + cyprodinil (Inspire Super) 30827	3+9	560 - 836 mL	227 - 338 mL	12 h	14	Limit sprays of Group 3 fungicides (Nova, Inspire, Fullback to 2 times/season. Tank mix with a protectant fungicide (Dithane, Manzate, Polyram, captan) for resistance

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Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
						management.
pyrimethanil (Scala) 28011	9	0.75 - 1.0 L	304 - 405 mL	12 h-24 h	14	Do not use for apple scab after bloom. 24 hour REI for thinning.
flutriafol (Fullback) 31679	3	950 mL	385 mL	12 h	14	Tank mix with the full rate of a protectant (e.g. Dithane. Manzate, Polyram, Captan, Maestro). Limit sprays of group fungicides (Nova, Inspire, Fullback) to 2 times/season for resistance management.
myclobutanil (Nova 40WP) 22399	3	340 g	140 g	12 h-12 days	14	Tank mix with the full rate of Dithane, Manzate, Polyram, Captan, or Maestro. Limit sprays of group 3 fungicides (Nova, Inspire, Fullback) to 2/season for resistance management. 12 days REI for thinning.
kresoxim-methyl (Sovran) 26257	11	360 g	150 g	48 h	30	Caution: drift may injure cherries. Limit sprays of group 11 fungicides (Flint, Sovran, Pristine) to 2 per season.
trifloxystrobin (Flint) 30619	11	140 - 175g	57 - 71 g	12 h – 4 days	14	Avoid more than 2 consecutive sprays. Limit sprays of Group 11 fungicides (Flint, Sovran, Pristine) to 2/season. 4 days REI for thinning.
boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	1.0 - 1.2 kg	405 g - 485 g	dry – 12 days	5	Avoid more than 2 consecutive applications. Limit sprays o Group 11 fungicides (Flint, Sovran, Pristine) to 2 per seasor 12 days REI for thinning.
penthiopyrad (Fontelis) 30331	7	1.0-1.5 L	405-607 mL	12 h	28	Do not apply more than 3 times per season, or more than twice sequentially. Use high rate for high disease pressure
fluopyram pyrimethanil (Luna Tranquility) 30510	7 + 9	800 mL	323 mL	12 h	14	Do not apply more than 2 times per season.
mancozeb (Manzate 28217, Penncozeb 30241 and 25397)	M3	6.0kg	2.4 kg	12 h - 35 d	77	Do not apply more than 4 applications per year. Apply at a minimum of the 7-day interval.
copper oxychloride (Copper Spray 19146)	M1	300 - 500 g/ha	121 - 202 g/ha	48 h	2 days	Maximum number of applications: 6. Reapply if needed as indicated by monitoring.
captan (Captan Supra 33641, Maestro 33488)	M4	3 kg	1.2 kg	2 - 24 d	7	Do not apply Captan in combination with, immediately before, or closely following oil sprays. Do not use it during bloom. Early-season sprays may cause necrotic spotting to foliage of sensitive varieties. Apply at a minimum of a 7-day interval.

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Insect or Disease	pment: 15 mm Gr Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
Powdery Mildew (Apples)	ipflufenoquin (Migiwa 20 SC) 35443	52	165 - 220 ml	66.8 - 89 ml	12 h	7 days	The 165 ml/ha rate provides suppression of powdery milder If disease pressure is moderate or high or if control is required, use the 220 ml/ha rate. The retreatment interval is 7 to 10 days. Do not make more than two sequential applications.
	impyrfluxam (Excalia Fungicide)	7	146 - 219 ml/ha	59 - 88.6 ml/ac	12 h	Petal fall	Green tip to petal fall only. Application must include a 100% organosilicone adjuvant, such as Xiameter, at 31.3 - 62.5 ml/100 L water.
	hydrogen peroxide + peroxyacetic acid (Oxidate 2.0) 32907	NC	1 L/100 L of water (1% solution)	1 L/100 L of water (1% solution)	4 h	0	Start foliar/branch/stem applications before the disease occurs or at the first sign of disease and/or when weather conditions are favourable for disease development. Apply diluted spray to the point of run-off to achieve full and 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 Paracor 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 (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 tigl cluster and continue every 10-14 days. Avoid application

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
							during bloom. Do not use within 14 days before or after captan fungicide. Do not apply more than 8 applications per year.
	mefentrifluconazole (Cevya) 33405	3	0.25 - 0.375 L	0.1 - 0.15 L	12 hours	0	Do not make more than 2 sequential applications before alternating to a non-group 3 fungicide registered for the same use. Begin applications prior to disease development Apply an additional applic. at an interval of 7 - 10 days if disease persists or weather conditions are favourable for disease development.
	Polyoxin D Zinc Salt (Diplomat 5SC) 32918	19	259 - 926 ml	104 - 374 ml		0 days	Suppression of powdery mildew. Begin as a preventative application when conditions favour disease development, 7 14 day spray interval. Number of applications: 3-10 depending on rate.
	benzovindiflupyr + difenoconazole (Aprovia Top) 31526	3+7	643 mL	260 mL	12 h	30	Rotate with other fungicides that do not contain Group 3 or Group 7 fungicides for resistance management. Do not appl more than 2 consecutive applications.
	benzovindiflupyr (Aprovia) 31981	7	500 mL	202 mL	12 h	30	Rotate with other non-Group 7 products. Do not apply in two consecutive sprays nor more than 2 L/ha (1.0 L/acre) per season.
	fluxapyroxad (Sercadis) 31697	7	167-333 mL	68-135 mL	12 h	0	The use of a non-ionic surfactant (0.125%) is recommended Begin treatment when conditions favour disease development. Apply a second spray 7-14 days up to blossor if conditions for disease development persist. Maximum amount per season: 1.33 L/ha (538 mL/acre). Maximum 4 applications per season.
	difenoconazole + cyprodinil (Inspire Super) 30827	3+9	836 mL	338 mL	12 h	14	Suppression of powdery mildew. Limit use of group 3 fungicides (Nova, Inspire, Fullback) to 2 sprays/season.
	flutriafol (Fullback) 31679	3	585 - 877 mL	237 - 355 mL	12 h	14	Limit use of group 2 fungicides (Nova, Inspire, Fullback) to 2 sprays/season. Rotate with fungicides from other groups.
	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 injur cherries.
	trifloxystrobin (Flint) 30619	11	140 - 210 g	57 - 85 g	12 h–4	14	Use the higher rate during pink to bloom stages. Limit sprays of group 11 fungicides (Flint, Sovran, Pristine) to 2 per

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
					days		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 o Group 11 fungicides (Flint, Sovran, Pristine) to 2 per seasor 12 days REI for thinning.
	penthiopyrad (Fontelis) 30331	7	1.0-1.5 L	405-607 mL		28	Do not apply more than 3 times per season, or more than twice sequentially. Use high rate for high disease pressure.
	fluopyram pyrimethanil (Luna Tranquility) 30510	7+9	600 mL	242 mL	12 h	14	Use as preventative treatment. Do not apply more than 2 times/season.

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

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
	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 contro 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.
						el instruct	ions for dispenser rates and application to trees.
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.

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

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nsect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
	(Aprovia) 31981						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) 30619	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.
	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/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	7+9	800 mL	323 mL	12 h	14	Do not apply more than 2 times per season.

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
	Tranquility) 30510 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-da interval.
	period.		-				eping trees covered with protectant fungicides during this ed soon after an infection period and still provide control. See
			n for more information		ei illey c	an be use	ed soon after an injection period and still provide control. Se
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 milde If disease pressure is moderate or high or if control is required, use the 220 ml/ha rate. The retreatment interval 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. 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. Applications before the disease and/or when weather conditions are favourable for disease development. Application of 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 AgSur 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. Maximun number of applications: 1

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
	Edge 31869, Kumulus 18836, Microthiol 29487						before, or closely following oil sprays. See description of powdery mildew.
	flutianil (Gatten) 34297	U 13	440 - 590 ml	178 - 239 ml	24 hours	14 days	Use a higher rate and shorter spray interval under high disease pressure. Use water volumes of 280 - 935 litres per hectare for concentrate sprays and 936 - 1870 litres per hectare for dilute sprays. Max number of applications per year: 4. Apply to foliage during the fruiting stage.
	pyraclostrobin + fluxapyroxad (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		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 developmen 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 of Group 7 fungicides for resistance management. Do not appose 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 blosse if conditions for disease development persist. Maximum amount per season: 1.33 L/ha (538 mL/acre). Maximum applications per season.

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
	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.
	Bacillus subtilis (Serenade Opti) 31666	44	1.7-3.3 kg	0.69-1.3 kg	24 h*	0	Suppression only. Apply preventatively at 7- to 10-day intervals.
	calcium polysulphide (Lime sulphur 30%) 16465	M2	9 L/1000 L	9 L/1000 L	48 h	n/a	Lime sulphur may injure "sulphur shy" varieties. May cause injury during hot temperatures. May harm predatory mites.
	myclobutanil (Nova 40WP) 22399	3	340 g	140 g	12 h - 12 days	14	Rotate with fungicides from other group. Limit use of group 3 fungicides (Nova, Inspire, Fullback) to 2 sprays/season.
	kresoxim-methyl (Sovran) 26257	11	240 - 450 g	100 - 182 g	48 h	30	CAUTION: Sovran drift may injure cherries. Use higher rate during pink stage. Limit sprays of group 11 fungicides (Flint Sovran, Pristine) to 2/season.
	trifloxystrobin (Flint) 30619	11	140 - 210 g	57 - 85 g	12 h – 4 days	14	Use the higher rate from pink to Bloom stages. Limit sprays of group 11 fungicides (Flint, Sovran, pristine) to 2 sprays/season. 4 days REI for thinning.
	thiophanate-methyl (Senator 50SC) 32096	1	3.15 L	1.27 L	24 h*	1	May harm predatory mites. Maximum 2 applications per season.
	mineral oil (Purespray Green) 27666	NC	10L	4 L	12 h	0	For suppression of powdery mildew, apply in a minimum of 1000 L water/ha at tight cluster and repeat at 10-14 day intervals. Do not use in combination with or within 14 days o sprays containing sulphur or captan.
	boscalid + pyraclostrobin (Pristine WG) 27985	7 + 11	1.0 - 1.2 kg	405 g - 485 g	dry to 12 days	5	Avoid more than 2 consecutive applications. Limit sprays of Group 11 fungicides (Flint, Sovran, Pristine) to 2 per season Caution: Sovran drift may injure cherries. 12 days REI for thinning.
	penthiopyrad (Fontelis) 30331	7	1.0-1.5 L	405-607 mL	12 h	28	Do not apply more than 3 times per season, or more than twice sequentially. Use high rate for high disease pressure.
	fluopyram pyrimethanil (Luna Tranquility) 30510	7 + 9	600 mL	242 mL	12 h	14	Use preventatively. Do not apply more than 2 times per season.

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
Fruittree and European Leafrollers	Bacillus thuringiensis (Bioprotec PLUS) 32425	11	1.8-2.5 L	0.7-1.3 kg	24 h*	0	Will also control other leaf-feeding larvae present. See Notes. Spray interval: 7 days under optimal conditions.
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4.0 L	1.6 L	24 h*	0	See Notes. Will also control other leaf-feeding larvae present. Spray interval: 7 days under optimal conditions
	Bacillus thuringiensis (Dipel 2X DF) 26508	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Will also control other leaf-feeding larvae present.
	Bacillus thuringiensis (Foray) 24978	11	4.0 L	1.6 L	24 h*	0	Will also control bud moth.
		e than 2	mm rainfall within 24 l	n of application, re-app	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
Green 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)	11	4.0 L	1.6 L	24 h*	0	Will also control bud moth.

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Insect or Disease	Recommended	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³	Precautions and Notes
	Product Choices 26854					(days)	
	Bacillus	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Will also control other leaf-feeding larvae present.
	thuringiensis (Dipel	''	1.125 - 1.075 kg	455 - 676 g	24 11		vviii also control other lear-reeding larvae present.
	2X DF) 26508						
	Bacillus	11	4 L	1.6 L	24 h*	0	Will also control other leaf-feeding larvae present.
	thuringiensis (Foray) 24978						·
		e than 2	mm rainfall within 24 h	n of application, re-app	ly produ		ternoon 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 (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). Repeat 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 b 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 ne 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 condition favour blossom infection. Do not tank mix with other fungicides.
	streptomycin	25	1.8 kg or 100 ppm	729 g or 100 ppm	24	50	Apply at blossom stage if weather conditions favour blosso
	sulphate		(see notes)	(see notes)	h-14		infection. Maximum 3 applications (5.4 kg/ha/season). 100
	(Streptomycin 17) 10305				days		ppm rate (600 g of Streptomycin per 1000 L of water) is based on high volume spray. Use sufficient water volume f 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.
	based on temperature	э.			e blight s	ection of t	the Guide (page 7-13) for information on risk assessment
Crown and Root	fosetyl-al (Aliette)	33	5.0 kg	2.0 kg	dry	30	See description of crown rot for more information.

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Insect or Disease	Recommended	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³	Precautions and Notes					
	Product Choices					(days)						
European Red Mite	pyridaben (Nexter SC) 33433	21	500 ml	202 ml	24 h	25 days	Do not apply more than twice per year. Controls rust mite. Residual control: 7-10 days.					
	fenazaquin	21 +	1.75 - 2.34 L	0.7 - 0.95 L	12 h -	10 days	Toxic to bees. Avoid application during bloom. Maximum					
	(Magister SC)	39			17		number of applications: 1					
	34544				days							
	abamectin +	6 + 28	496 mL	201 mL	12 h	28	Apply before a threshold of five spider mites per leaf is					
	cyantraniliprole						reached. Add 0.25 - 1% spray oil/ spray mixture. Also					
	(Minecto Pro) 33023						controls leafroller and mites. Maximum 1 application per season.					
	cyflumetofen	25	1 L	405 mL	12 h	7	Do not apply more than 2 times per season. Spray interval:					
	(Nealta) 31284						14 days.					
	acequinocyl	20B	2.1 L	850 mL	12 h	14	Do not apply more than twice/season. Controls all life stages					
	(Kanemite) 28641						Does not control rust mite. Spray interval: 21 days.					
	pyridaben (Nexter) 25135	21	300 g	120-240 g	24 h	25	Use higher rate. Do not apply more than twice per season. Controls rust mite. Residual control: 7-10 days.					
	spirodiclofen (Envidor) 28051	23	750 mL	300 mL	12 h	7	Only once per season. Controls rust mite. Spray interval: minimum 7 days.					
	clofentezine (Apollo) 21035	10	300-600 mL	120-240 mL	4-12 h	21	Do not apply more than once per season or beyond 14 days after petal fall. Controls eggs and young mites. Does not control rust mite. Residual control: 45 days.					
	bifenazate (Acramite) 27925	20D	851 g	344 g	12 h	7	Does not control rust mite. Residual control: 21 days.					
	Notes: It is important to rotate products with different group numbers to avoid development of pesticide resistance. Do not apply products from the same group more than once per season. The presence and number of predatory mites should first be determined using a mite counting service before sprayin Apply the products in sufficient water to ensure thorough and uniform coverage.											
McDaniel,	pyridaben (Nexter	21	500 - 1000 ml	202 404 ml	24 h	25 days	Do not apply more than twice per year. Controls rust mite.					
Twospotted Spider	SC) 33433	21	300 - 1000 1111	202 404 1111	24 11	25 days	Residual control: 7-10 days.					
Mites	fenazaquin	21 +	1.75 - 2.34 L	0.7 - 0.95 L	12 h -	10 days	Toxic to bees. Avoid application during bloom. Maximum					
	(Magister SC)	39	10 2.012	0.7 0.00 2	17	liodayo	number of applications: 1					
	34544				days		The second of th					
	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.					
	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					
	1000000	1	1	ĺ	1.	I	140 44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
	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					

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
							more than 8 applications per year.
	abamectin + cyantraniliprole (Minecto Pro) 33023	6 + 28	496 mL	201 mL	12 h	28	Apply before a threshold of five spider mites per leaf is reached. Add 0.25 - 1% spray oil/ spray mixture. Also controls leafrollers. Maximum 1 application per season.
	cyflumetofen (Nealta) 31284	25	1 L	405 mL	12 h	7	Do not apply more than 2 times per season. Spray interval: 14 days.
	acequinocyl (Kanemite) 28641	20B	2.1 L	850 mL	12 h	14	Do not apply more than 2 times/season. Does not control rust mites. Spray interval: 21 days.
	pyridaben (Nexter) 25135	21	300 - 600 g	120 - 240 g	24 h	25	Use highest rate. Do not apply more than 2 times/season. Controls rust mite. Residual control: 7-10 days.
	spirodiclofen (Envidor) 28051	23	750 mL	300 mL	12 h	7	Apply only once/season. Controls rust mite. Spray interval: minimum 7 days.
	clofentezine (Apollo) 21035	10	300 - 600 mL	120 - 240 mL	4 - 12 h	21	Do not apply more than once/season or beyond more than 14 days after petal fall. Controls eggs and young mites. 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 (Magister SC) 34544	21 + 39	1.75 L	0.7 L	12 h - 17 days	10 days	Toxic to bees. Avoid application during bloom. Maximum number of applications: 1
	pyridaben (Nexter) 25135	21	300 g	120 g	24 h	25	Do not apply more than twice per season. Residual control: 7-10 days.
	spirodiclofen (Envidor) 28051	23	750 mL	300 mL	12 h	7	Apply only once per season. Spray interval: minimum 7 days
Eyespotted Bud Moth	Chlorantraniliprole (Altacor MaX) 34654	28	73 - 143 g	30 - 58 g	12 h	5	Apply at pink to petal fall when larvae are active. Do not apply more than 3 times per season. Spray interval - 10 to 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.

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Insect or Disease	Recommended	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³	Precautions and Notes
	Product Choices	5	364 mL	147 mL	dn.	(days)	Do not apply mare than 2 times per access Will reduce
	spinosad (Entrust) 30382) ³	304 IIIL	147 IIIL	dry	'	Do not apply more than 3 times per season. Will reduce pansy spot. Will also control any leafroller present. Spray
	30302						interval: 7 to 10 days.
	spinetoram	5	210-420 g	85-170 g		7	Do not apply more than 3 times per season for all labeled
	(Delegate) 28778	3	210-420 g	03-170 g		_ ′	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
	(Altacor) 28981						times per season.
Green Fruitworms	Chlorantraniliprole	28	73 - 108 g	30 - 44 g	12 h	5	Repeat if necessary at petal fall. Do not apply more than 3
	(Altacor MaX) 34654						times per season. Spray interval - 10 to 14 days.
	acetamiprid +	4 + 15	1050 ml	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				days		
	Bacillus	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See
	thuringiensis						Notes. Spray interval: 7 days under optimal conditions.
	(Bioprotec PLUS)						
	32425						
	Bacillus	11	4.0 L	1.6 L	24 h*	0	Thorough coverage is very important. Will also control bud
	thuringiensis						moth and leafroller larvae present. Spray interval: 7 days
	(Bioprotec CAF)						under optimal conditions.
	26854						'
	Bacillus	11	1.125 - 1.675 kg	455 - 678 g	24 h*	0	Thorough coverage is very important. Will also control bud
	thuringiensis (Dipel		•				moth and leafroller larvae present. Spray interval: 7 days
	2X DF) 26508						under optimal conditions.
	Bacillus	11	4.0 L	1.6 L	24 h*	0	Thorough coverage is very important. Will also control bud
	thuringiensis (Foray)						moth and leafroller larvae present. Spray interval: 7 days
	24978						under optimal conditions.
	chlorantraniliprole	28	145-215 g	59-87 g	12 h	5	Do not apply more than 3 times/season. Spray interval - 10
	(Altacor) 28981						to 14 days. Spray interval - 10 to 14 days.
Obliquebanded	Chlorantraniliprole	28	73 - 143 g	30 - 58 g	12 h	5	Apply when larvae become active. Do not apply more than 3
and Threelined	(Altacor MaX) 34654						times/ season. Spray interval: 10 to 14 days (see label).
Leafrollers	GS-omega/kappa-	32	1.2 - 2.3 L	486 - 931 mL	4 h	0	Tank mix with the low labelled rate of a Bacillus thuringiensis
	Hxtx-Hv1a (Spear						(Bt) product registered on the same crop for control of
	Lep) 34678						caterpillars such as Bioprotec, Dipel or Foray. Use a
							spreader/sticker or non-ionic surfactant (0.125%) to enhance
							the adhesion of Spear Lep.
	tetraniliprole	28	225 ml	91 ml	12	7 days	Max 3 applications per year. Toxic to bees. Do not apply
	(Vayego 200 SC)				hours		during pre-bloom or blooming period. Apply post-bloom only
	33711						

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
	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) 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.
	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 u 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 215 g/ha (87 g/ac), do not apply more than twice/season. Spray

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
							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.
							omach poisons so complete coverage is important for Entrust and Delegate will suppress thrips.
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 bee 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 alternativith 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 r apply more than 3 times per season. use higher rate und 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: to 21 days.
							mes/season alone or alternately with other Group 4 product rowers as of April 11, 2021.
							nomic thresholds. Do not apply more than twice/season aloutch will no longer be registered for use by growers as of A
		for the re	est of the season. If ch	nemical control is need			t generation tissue-feeder larvae in the spring will provide for resistance management. Avoid using Group 4 products
Mullein Bug (Campylomma)	acetamiprid +	4 + 15	840 - 1260 ml	340 - 510 ml	12 hrs to 7	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

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
	(Cormoran) 33353				days		
	tetraniliprole	28	300 ml	121 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.
	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. Sprainterval: minimum 7 days.
	acetamiprid (Assail) 27128	4	80-160 g	32-64 g	12 h-6 days	7	Will also control aphids. Do not apply more than once/season. See note below regarding repeated use. Do not apply during bloom. Spray interval - 12 days. REIs of days for scouting and 6 days is for thinning.
	thiacloprid (Calypso) 28429	4	145-290 mL	59-117 mL	12 h	30	Do not apply more than once/season. See note below regarding repeated use. Spray interval: 14 to 21 days.
	10 days. Admire and	Alias wil	l no longer be register	red for use by growers	as of Ap	oril 11, 202	
	problems. Ensure the	orough co	overage. Fruit greater ting insects foraging i		are not a	affected by	nan twice/season for all other registered uses to prevent mit y campylomma feeding. Apply as early in petal fall as possib
Fruittree and European Leafrollers	abamectin + cyantraniliprole (Minecto Pro) 33023	6 + 28	496 mL	201 mL	12 h	28	Add 0.25 - 1% spray oil/ spray mixture. Also controls mite Maximum 1 application per season.
<u> </u>	Bacillus thuringiensis (Bioprotec PLUS) 32425	11	1.8-2.5 L	0.73-1.0 L	24 h*	0	Will also control other leaf-feeding larvae present. See Notes.
	spinosad (Success) 26835	5	182 mL	74 mL	dry	7	Do not use more than 3 times/season. Will reduce pansy spot. Spray interval: 7 to 10 days.
	Bacillus thuringiensis (Bioprotec CAF) 26854	11	4.0 L	1.6 L	24 h*	0	Will also control other leaf-feeding larvae present. 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. 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 ti,es/season. Do not tank mix with Sovran, Flint, Pristine copper or captan fungicides. TOXIC to bees. Spray interv 10 to 14 days.

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
	spinosad (Entrust) 30382	5	364 mL	147 mL	dry	7	Do not apply more than 3 times/season. Will reduce pansy spot. Spray interval: 7 to 10 days.
	spinetoram (Delegate) 28778	5	210-420 g	85-170 g		7	Do not apply more than 3 times per year for all labeled uses Spray interval: 14 days.
	Bacillus thuringiensis (Foray) 24978	11	4.0 L	1.6 L	24 h*	0	Will also control other leaf-feeding larvae present. Spray interval: 7 days under optimal conditions.
Western Flower Thrips	cyclaniliprole (Harvanta 50SL) 32889	28	1.2 - 1.6 L	485 - 647 ml	12	7 days	Toxic to bees. For suppression only. Do not make more tha 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.
San Jose Scale	spirotetramat (Movento 240 SC) 28953	23	365-585 mL	148-237 mL	12 h	7	Toxic to bees. Apply Movento with an adjuvant such as Agra 90 after petal fall. Do not exceed 1120 mL/ha/season. Also controls apple leaf curling midge. Spray interval: minimum 1 days.
Apple Leaf Curling Midge	spirotetramat (Movento 240 SC) 28953	23	365-585 mL	148-237 mL	12 h	7	Toxic to bees. Apply Movento with an adjuvant such as Agra 90 after petal fall. Do not exceed 1120 mL/ha/season. Spray interval: minimum 14 days. Do not apply until after petal fall Apple leaf curling midge is not a problem in healthy bearing trees but control is essential in nursery and young plantings
	spinetoram (Delegate) 28778	5	420 g	170 g	12 h	7	Toxic to bees. Do not apply to flowering crops or weeds if bees are visiting the treatment area. Maximum 3 application per year. Application interval: 17 days.
White Apple Leafhopper	acetamiprid (Assail) 27128	4	80-120 g	32-48 g	12 h-6 days	7	Will also suppress aphids and leafminers. Do not apply this products alone or alternately with other Group 4 products more than twice/season (see additional notes). Spray interverse and 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	. Spray or use b	interval: minimum 7 d y growers as of April	ays. Admire will no lon 11, 2021.	ger be re	egistered	rnately with other Group 4 products more than twice/season for use by growers as of April 11, 2021. Admire & Alias will no
	longer be registered f	or use b	y growers as of April	11, 2021.			ucts/season. Spray interval: 10 to 14 days. Clutch will no
Apple Clearwing	notes: To prevent mi	te proble	ems, avoid using Ground 1.4 L/1000 L of	1.4 L/1000 L of	, Assaii, 12	Admire, A	Alias, Clutch) more than twice/season for all registered uses. Target larvae in the spring, apply when there is a lot of frass

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
							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.
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 o Dithane Rainshield Fungicide (e.g., 4 applications per year a 6.0/kg/ha or 8 applications at 3.0 kg/ha OR 12 applications a 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

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
							disease development.
	Isofetamid (Kenja) 31758	7	913 ml	369 ml	12 hours	20	Do not apply more than 2 consecutive Group 7 applications Application interval: 10 to 14 days.
	benzovindiflupyr + difenoconazole (Aprovia Top) 31526	3+7	386 - 643 mL	156 - 260 mL	12 h	30	Tank mix with protectant fungicide for improved fruit scab control. Use high rate for mildew. Rotate with other fungicide groups for resistance management. Do not apply more than 2.57 L/ha/season.
	copper octanoate (Cueva Commercial) 31825	M1	Prepare 0.5-2% solution (5-20 L/1000 L water)		4 h	1	Apply 470-940 L of mixture/ha (190-380 L/acre). Do not exceed 1% rate for varieties susceptible to russeting. Repea every 7-10 days as long as weather conditions favour disease development.
	benzovindiflupyr (Aprovia) 31981	7	300-500 mL	121-202 mL	12 h	30	For improved fruit scab control, tank mix with a protectant fungicide (see label). Rotate with other non-Group 7 products. Do not apply in two consecutive sprays nor more than 2 L/ha (1.0 L/acre) per season.
	fluazinam (Allegro) 27517	29	0.50 - 1.0 L	202 - 404 mL	25 h-3 days	28	Use highest rate and shortest interval for high disease pressure. Will also suppress mites. 3 days REI for thinning.
	difenoconazole + cyprodinil (Inspire Super) 30827	3+9	560 - 836 mL	227 - 338 mL	12 h	14	Limit sprays of group 3 fungicides (Nova, Inspire, Fullback) to 2 per season. Tank mix with a protectant fungicide (Dithane, Manzate, Polyram, Captan, Maestro)) for resistance management.
	flutriafol (Fullback) 31679	3	950 mL	385 mL	12 h	14	Tank mix with a full rate of a protectant such as Dithane, Manzate, Polyram, Captan or Maestro. Note that Dithane, Manzate and Polyram have a 45-day PHI. Limit sprays of group 3 fungicides (Nova, Inspire, Fullback) to 2/season for resistance management.
	myclobutanil (Nova 40WP) 22399	3	340 g	140 g	12 h - 12 days	14	Do not use as an eradicant treatment after bloom. Tank mix with the full rate of a protectant such as Dithane, Manzate, Polyram, Captan or Maestro. Note that Dithane, Manzate and Polyram have a 45-day PHI. Limit sprays of group 3 fungicides (Nova, Inspire, Fullback) to 2/season for resistance management. 12 days REI for thinning.
	kresoxim-methyl (Sovran) 26257	11	360 g	150 g	48 h	30	CAUTION: Sovran drift may injure cherries. Limit sprays of group 11 fungicides (Flint, Sovran, Pristine) to 2/season.
	trifloxystrobin (Flint) 30619	11	140 - 175 g	57 - 71 g	12 h – 4 days	14	Limit sprays of group 11 fungicides (Flint, Sovran, Pristine) to 2/season. 4 days REI for thinning.
	boscalid +	7 + 11	1.0 - 1.2 kg	405 g - 485 g	dry to	5	Avoid more than 2 consecutive applications. Limit sprays of

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nsect or Disease	Recommended	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³	Precautions and Notes
	Product Choices					(days)	
	pyraclostrobin				12		group 11 fungicides (Flint, Sovran, Pristine) to 2 per seaso
	(Pristine WG) 27985				days		12 days REI for thinning.
	penthiopyrad	7	1.0-1.5 L	405-607 mL	12 h	28	Do not apply more than 3 times per season, or more tha
	(Fontelis) 30331						twice sequentially. Use high rate for high disease pressur
	fluopyram	7 + 9	800 mL	323 mL	12 h	14	Do not apply more than 2 times per season.
	pyrimethanil (Luna						
	Tranquility) 30510						
	mancozeb (Manzate	M3	6.0 kg	2.4 kg	12 h -	77	Do not apply more than 4 applications per year. Apply at
	28217, Penncozeb				35 d		minimum of the 7-day interval.
	30241 and 25397)						·
	copper oxychloride	M1	300 - 500 g/ha	121 - 202 g/ha	48 h	2 days	Maximum number of applications: 6. Reapply if needed a
	(Copper Spray					1	indicated by monitoring.
	19146)						, ,
	captan (Captan	M4	3 kg	1.2 kg	2 - 24	7	Do not apply Captan in combination with, immediately
	Supra 33641,			1.2.13	days		before, or closely following oil sprays. Do not use it during
	Maestro 33488)				, .		bloom. Early-season sprays may cause necrotic spotting
	massars so resy						foliage of sensitive varieties. Apply at a minimum of a 7-c
							interval.
	Notes: Pink through	petal fal	l is a high risk period fo	or apple scab infection	. Preven	t infection	by keeping trees covered with protectant fungicides during
	this period.	•	0 1				, , , , , , , , , , , , , , , , , , , ,
	Notes: Eradicant spra	ays are	best used in a protecti	ve program. However	they can	be used	soon after an infection period and still provide control.
Powdery Mildew	ipflufenoquin	52	165 - 220 ml	66.8 - 89 ml	12 h	7 days	The 165 ml/ha rate provides suppression of powdery milder
(Apples)	(Migiwa 20 SC)						If disease pressure is moderate or high or if control is
	35443						required, use the 220 ml/ha rate. The retreatment interval
							7 to 10 days. Do not make more than two sequential
							applications.
	impyrfluxam	7	146 - 219 ml/ha	59 - 88.6 ml/ac	12 h	Petal	Green tip to petal fall only. Application must include a 100
	(Excalia Fungicide)					fall	organosilicone adjuvant, such as Xiameter, at 31.3 - 62.
							ml/100 L water.
	hydrogen peroxide +	NC	1 L/100 L of water	1 L/1000 L of water	4 h	0	Start foliar/branch/stem applications before the disease
	peroxyacetic acid						occurs or at the first sign of disease and/or when weath
	(Oxidate 2.0) 32907						conditions are favourable for disease development. App
	1 (Oxidate 2.0) 32907						
	(Oxidate 2.0) 32907						I diluted spray to the point of run-off to achieve full and eve
	(Oxidate 2.0) 32907						1
		NC	9 L/500 to 800 L of	9 L/500 to 800 L of		0	coverage.
	garlic powder	NC	9 L/500 to 800 L of	9 L/500 to 800 L of		0	Disease control can be achieved under low to moderate
		NC	9 L/500 to 800 L of water	9 L/500 to 800 L of water		0	coverage.

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
							a rate of 0.1% could help to improve the spreading.
	fenazaquin	21 +	1.75 - 2.63 L	0.7 - 1.1 L	12 h -	10 days	Toxic to bees. Avoid application during bloom. Maximum
	(Magister SC)	39			17		number of applications: 1
	34544				days		
	sulphur (Cosavet DF Edge 31869, Kumulus 18836, Microthiol 29487	M2	7.0 kg	2.8 kg	24 h	1	
	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 tigh cluster and continue every 10-14 days. Avoid application during bloom. Do not use within 14 days before or after captan fungicide. Do not apply more than 8 applications per year.
	mefentrifluconazole (Cevya) 33405	3	0.25 - 0.375 L	0.1 - 0.15 L	12 hours	0	Do not make more than 2 sequential applications before alternating to a non-group 3 fungicide registered for the same use. Begin applications prior to disease development. Apply an additional applic. at an interval of 7 - 10 days if disease persists or weather conditions are favourable for disease development.
	Polyoxin D Zinc Salt (Diplomat 5SC) 32918	19	259 - 926 ml	104 - 374 ml		0 days	Suppression of powdery mildew. Begin as a preventative application when conditions favour disease development, 7 14 day spray interval. Number of applications: 3-10 depending on rate.
	benzovindiflupyr + difenoconazole (Aprovia Top) 31526	3+7	643 mL	260 mL	12 h	30	Rotate with other fungicides that do not contain Group 3 or Group 7 fungicides for resistance management. Do not apply more than 2 consecutive applications.
	benzovindiflupyr (Aprovia) 31981	7	500 mL	202 mL	12 h	30	Rotate with other non-Group 7 products. Do not apply in two consecutive sprays nor more than 2 L/ha (1.0 L/acre) per season.
	difenoconazole + cyprodinil (Inspire Super) 30827	3+9	836 mL	338 mL	12 h	14	Suppression of powdery mildew. Limit use of Group 3 fungicides (Nova, Inspire, Fullback) to 2 sprays/season.
	flutriafol (Fullback) 31679	3	585 - 877 mL	237 - 355 mL	12 h	14	Limit use of Group 3 fungicides (Nova, Inspire, Fullback) to 2 sprays/season. Rotate with fungicides from other groups.
	Bacillus subtilis	44	1.7-3.3 kg	0.69-1.3 kg	24 h*	0	Suppression only. Apply preventatively at 7- to 10-day

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
	(Serenade Opti) 31666						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 sprays/season. Rotate with fungicides from other groups. 1 days REI for thinning.
	kresoxim-methyl (Sovran) 26257	11	240 - 450 g	100 - 182 g	48 h	30	CAUTION: Sovran drift may injure cherries. Limit sprays of Group 11 fungicides (Flint, Sovran, Pristine) to 2/season for resistance management. Rotate with fungicides from other groups.
	trifloxystrobin (Flint) 30619	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 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, Pristing to 2/season for resistance management. Rotate with othe fungicides. Use the higher rate during pink to bloom stage: 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	tes: Rota		erent groups for resist	ance ma	nagemen	
Fire Blight	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. Repeat every 7-10 days a long as weather conditions favour disease development (maximum 6 applications per season). See Fire blight description.

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	Stage of Develop	oment: Petal fall o	or Caly	/X				
	Insect or Disease	Recommended	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³	Precautions and Notes
		Product Choices					(days)	
		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
Į		28042						intervals. Max. 4 sprays/yr. Will also reduce shoot growth.

Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (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.
	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.

products in sufficient water to ensure thorough and uniform coverage.

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McDaniel, Twospotted Spider Mites						(days)	
		21	500 - 1000 ml	202 404 ml	24 h	25 days	Do not apply more than twice per year. Controls rust mite.
Mites							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		
	Mineral oil (Suffoil- X) 33099	NC	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.
	abamectin + cyantraniliprole (Minecto Pro) 33023	6 + 28	496 mL	201 mL	12 h	28	Apply before a threshold of five spider mites per leaf is reached. Add 0.25 - 1% spray oil/ spray mixture. Also controls leafrollers. Maximum 1 application per season.
	cyflumetofen (Nealta) 31284	25	1 L	405 mL	12 h	7	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. TI	ne preva		es should first be deter			stance. Do not apply products from the same group more counting services before spraying. Apply the products in
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 pyridaben (Nexter)	6 21	170 mL 300 g	69 mL 120 - 240 g	dry 24 h	28 25	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. Maximum 2 applications per season. Residual control: 7-10

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

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
	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.
	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 controls leafroller. Do not tank mix with Sovran, Flint, Pristine, copper or captan fungicides. Toxic to bees. Spray interval: 10 to 14 days.
	phosmet (Imidan 70% WP) 29064	1B	2.68 kg	1.08 kg	12 h - 9 days	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.
	granulovirus (Virosoft) 26533	NC	250 mL	100 mL	24 h*	0	Slow acting, with no leafroller control. Virus must be ingested to be effective. Apply product in late afternoon or on a cloud day to avoid direct exposure to sunlight. Spray interval: 14

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
		<u> </u>	242	0.7	1010		days.
	acetamiprid (Assail) 27128	4	240 g	97 g	12 h-6 days	7	Do not apply more than twice per season. Will also control aphids, leafminer & leafhoppers. Toxic to bees. Spray interval - 12 days. REI of 6 days is for thinning.
	thiacloprid (Calypso) 28429	4	290-440 mL	117-178 mL	12 h	30	Controls larvae, will also control aphids. Does not control leafrollers. Low toxicity to bees, but high toxicity to lacewings. Use low rate for first brood if low to moderate pressure. Do not exceed a total of 870 mL/ha (352 mL/ac) per season. Spray interval: 14 to 21 days.
	novaluron (Rimon) 28515	15	0.93 - 1.4 L / 1000 L water	0.376 - 0.566 L / 1000 L water	12 h	14	Controls eggs and larvae. Will also control leafroller eggs. D not apply more than 4 times or 11 L/ha/season. May disrupt biological control of mites. Spray interval: 10 to 14 days.
	spinosad (Entrust) 30382	5	364 mL	147 mL	4 h	7	Suppression only. Approved for organic fruit production. Spray interval: 7 to 10 days.
	spinetoram (Delegate) 28778	5	420 g	170 g	12 h	7	Apply at first egg hatch based on pheromone trap catches and degree days after biofix. Control larvae before they enter fruit. Do not apply more than 3 times per season. Use higher ate under high pest pressure. Also controls leafroller. Spra interval: 14 days.
	methoxyfenozide (Intrepid) 27786	18	1 L	405 mL	12 h	14	Controls eggs and larvae. Do not apply more than 2 times per season. Spray interval: 14 to 21 days.
	chlorantraniliprole (Altacor) 28981	28	145-215 g	58-86 g	12 h	5	Apply at first egg hatch based on pheromone trap catches and degree days after biofix. Controls eggs and larvae. Als controls leafroller. Do not exceed 645 g/ha (261 g/ac) per season. Will provide control of apple clearwing moth.
	tebufenozide (Confirm) 24503	18	1 L	405 mL	dry- 12 h	14	Do not use if there is resistance to Group 1 insecticides or pest pressure is moderate to high. Do not apply more than times/season. Spray interval: 10 to 14 days.
	mineral oil (Purespray Green) 27666	NC	10 L	4 L	12 h	0	Apply at or just before egg laying. Apply in a minimum of 1000L water/ha. Do not use in combination with or within 1 days of sulphur or captan. Also provides control of aphids and suppression of mites and powdery mildew.

bud moth larvae present. Avoid using Group 4 products more than twice/season for all registered uses to prevent mite problems. Group 4 products will also control aphids and leafhoppers present. To minimize the development of resistance, if a product was used in the spring, do not use again in the

summer.

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes					
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.					
	Notes: Blocks with high populations the previous summer should be sprayed at pink followed by a petal fall spray. Blossom sprays applied against leafroller will also control bud moth larvae present. An effective spring control program will reduce 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					
	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 contro the same pests.					
	spinosad (Success) 26835	5	182 mL	74 mL	dry	7	Do not apply Group 5 products (Success, Entrust, Delegate more than 3 times/season. Will also control eyespotted but					

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nsect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
							moth larvae present. Spray interval: 7 to 10 days.
	cyantraniliprole	28	500- 1000 mL	202- 404 mL	12 h	3	Monitor adult moth flight and apply at first egg hatch. Do no
	(Exirel) 30895						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 contreverse eyespotted bud moth. Will reduce pansy spot. Spray interverse 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 higher 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 napply more than 3 times/season, for rates above 215 g/ha (87 g/ac), do not apply more than twice/season.
	tebufenozide (Confirm) 24503	18	1 L	405 mL	dry- 12 h		Do not apply more than 4 times/season. Will also 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.
	Notes: Altacor, Confisatisfactory control.	irm, Intre	pid, Delegate, Exirel,	Success, Bt products	and Twir	Guard are	e stomach poisons so complete coverage is important for
Tentiform Leafminer	acetamiprid + novaluron (Cormoran) 33353	4 + 15	700 ml	283	12 hrs to 7 days	14 days	Do not apply more than 6.9 L/ha. Spray interval - 12 days REIs: 7 days for thinning, 12 hours for all other activities.
	abamectin + cyantraniliprole (Minecto Pro) 33023	6 + 28	496 mL	201 mL	12 h	28	Apply against egg (to control new hatch) and early sap feeder stages of first and second generation tentiform leafminers when locally established thresholds have beer reached. Add 0.25 - 1% spray oil/ spray mixture. Also controls leafroller and mites. Maximum 1 application per season.
	abamectin (Agri- Mek SC) 31607	6	170 mL	69 mL	dry	28	Apply with 0.25% superior oil. Do not apply more than once/season. Will also control leaf and rust mites. Residuation control: 21 days.
	acetamiprid (Assail) 27128	4	80-120 g	32-48 g	12 h-6 days	7	Will also control aphids and leafhoppers. Do not apply mo than twice per season alone or alternately. Spray interval 12 days. REIs of 2 days for scouting and 6 days is for

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
							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.
				not apply more than twers as of April 11, 20		r season a	alone or alternately. Spray interval: minimum 10 days. Admire
	Notes: The leafmine	r parasite	e is an effective biolog	ical control agent. 30%	parasit		t generation tissue-feeder larvae in the spring will provide
A I . O I . A . I . I							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				days		
	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)						amount per season: 2000 mL/ha (810 mL/acre). Chemical
	31452						control is rarely needed.
Apple Aphid	acetamiprid +	4 + 15	700 - 1050 ml	283 - 425 ml	12 hrs	14 days	Do not apply more than 6.9 L/ha. Spray interval - 12 days.
	novaluron				to 7		REIs: 7 days for thinning, 12 hours for all other activities.
	(Cormoran) 33353				days		
	tetraniliprole	28	150 ml	61 ml	12	7 days	Suppression only. Max 3 applications per year. Toxic to
	(Vayego 200 SC)				hours		bees. Do not apply during pre-bloom or blooming period.
	33711						Apply post-bloom only.
	Mineral oil (Suffoil-	NC	10 L/1000 L of water	10 L/1000 L of water	12	0	Test for crop tolerance before widespread use. Apply every
	X) 33099				hours		10 - 14 days,depending on level of pest pressure. Do not use
	7., 55555						within 14 days before or after captan fungicide. Do not apply
							more than 8 applications per year.
	afidopyropen	9D	0.1 L	0.04 L	12 hrs	7 days	Allow 7 days between applications. Do not apply more than 4
	(Versys) 33266	"-	J	0.0.2		, .	times per season. For resistance management, rotate with
	(10.0,0,00200						another insecticide group after 2 applications.
	flupyradifurone	4D	500-750 mL	202-304 mL	12 h	14	Minimum interval between applications: 10 days. Maximum
	(Sivanto Prime)	""	300 700 IIIL	202 00+ IIIL	'~''	'-	amount per season: 2000 mL/ha (810 mL/acre)
	31452						

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Insect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes
	(Malathion 85E)		L water		3		spray mixture in sufficient volume to ensure thorough
	8372				days		coverage. Only two applications per year. Spray interval: 10 days.
	flonicamid (Beleaf) 29796	29	160 g	65 g	12 h-2 days	21	Field reports indicate the rates may not provide satisfactory level of control. 2 days REI for thinning.
	sulfoxaflor (Closer) 30826	4C	100 - 200 mL	40 - 80 mL	12 h	7	Do not apply more than 2 times/season. Spray interval: minimum 7 days.
	spirotetramat (Movento 240 SC) 28953	23	365-435 mL	148-176 mL	12 h	7	Apply Movento with an adjuvant such as Agral 90. Do not exceed 1830 mL Movento/ha (741 mL/acre) per season. Also controls woolly apple aphid and apple leaf curling midge. Toxic to bees. Spray interval: minimum 14 days.
	acetamiprid (Assail) 27128	4	80-120 g	32-48 g	12 h-6 days	7	Do not apply Group 4 insecticides more than 2 times/season to avoid possible mite problems. Spray interval - 12 days. REIs of 2 days for scouting and 6 days is for thinning.
	interval: minimum 7 c	days. Ad	mire and Alias will no I	onger be registered fo	r use by	growers a	n 2 times/season to avoid possible mite problems. Spray as of April 11, 2021. oblems. Spray interval: 10 to 14 days. Clutch will no longer be
	registered for use by			12 time/season to avo	iu possik	ne mite pr	obients. Opray interval. To to 14 days. Oldton 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 use 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 4 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 with Sovran, Flint, Pristine, copper or captan fungicides. Toxic to bees.Spray interval: 10 to 14 days.
	malathion	1B	610 - 880 mL/1000		12 hr -	3	This product is harmful to beneficial insects that attack

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nsect or Disease	Recommended Product Choices	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³ (days)	Precautions and Notes					
	(Malathion 85E) 8372		L		3 days		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 no 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 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 sulphi					
	alone or alternately of for use by growers a	or agains s of April	t any other pests the re	emainder of the seaso	n. Spray	interval: r	ted in mite problems, do not apply more than twice per seas minimum 7 days. Admire and Alias will no longer be registe					
	Notes: Do not apply more than twice/season. Spray interval: 10 to 14 days. Clutch will no longer be registered for use by growers as of April 11, 202											
Woolly 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 day 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 even 10 - 14 days, depending on level of pest pressure. Do not within 14 days before or after captan fungicide. Do not apmore 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					

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Insect or Disease	Recommended	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³	Precautions and Notes							
	Product Choices				deve	(days)	accuracy to be at mate of a days DEI for this miner							
	29796	4C	400 mL	162 mL	days 12 h	7	current label rate. 2 days REI for thinning.							
	sulfoxaflor (Closer) 30826	40	400 ML	162 ML	12 n	′	For suppression only. Do not apply more than twice/season. Spray interval: minimum 7 days.							
		more the	n twice/seesen Spre	intorval: 10 to 14 day	Clutch	ما ممالنيد	onger be registered for use by growers as of April 11, 2021.							
Stink Bugs	fenpropathrin	3	779 - 1559 ml	315 - 631 ml	24 h -	16 days	Toxic to bees. Do not apply during bloom. REI/PHI's: 23							
Stillk bugs	(Danitol) 33817	3	779 - 1559 1111	313 - 031 1111	23	10 days	days (thinning), 16 days (hand harvesting), 7 days (scouting							
	(Dariitor) 33017				days		hand pruning), 14 days (mechanical harvesting), 24 hours							
					days		(all other activities). Pests controlled: exclude Brown							
							marmorated stink bug							
	Notes: There are no	Notes: There are no registered products. Contact field advisor. Products registered for brown marmorated stink bugs (Actara and Clutch) will provide												
	I	Notes: There are no registered products. Contact field advisor. Products registered for brown marmorated stink bugs (Actara and Clutch) will provide some control. Check product labels.												
White Apple	flupyradifurone	4D	500-750 mL	202-304 mL	12 h	14	Minimum interval between applications: 10 days. Maximum							
Leafhopper	(Sivanto Prime)					' '	amount per season: 2000 mL/ha (810 mL/acre).							
	31452						a							
	acetamiprid (Assail)	4	80-120 g	32-48 g	12 h-6	7	Will also suppress aphids and leafminers. Do not apply this							
	27128		· ·		days		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)	4	145 mL	59 mL	12 h	30	Do not apply more than twice/season. Spray interval: 14 to							
	28429						21 days.							
	Notes: Will also control aphid and leafminer. Do not apply more than twice per season. See note below. Spray interval: minimum 7 days. Admire and													
	Alias will no longer be registered for use by growers as of April 11, 2021.													
	Notes: Do not apply more than twice/season. Spray interval: 10 to 14 days. Clutch will no longer be registered for use by growers as of April 11, 2021. Notes: Avoid using Group 4 products more than twice/season for all registered uses to prevent mite problems.													
San Jose Scale	flupyradifurone	4D	750-1000 mL +	304-405 mL +	12 h	14	Minimum interval between applications: 10 days. Maximum							
	(Sivanto Prime)		0.25% oil	0.25% oil			amount per season: 2000 mL/ha (810 mL/acre).							
	31452	10	000 400 1	00.400	40.1									
	sulfoxaflor (Closer)	4C	200-400 mL	80-160 mL	12 h	7	Do not apply more than twice/season. Spray interval:							
	30826	23	365-585 mL	148-237 mL	12 h	7	minimum 7 days. Apply Movento with an adjuvant such as Agral 90. Do not							
	spirotetramat (Movento 240 SC)	23	300-303 IIIL	140-237 IIIL	12 11	'	exceed 1830 mL Movento/ha (741 mL/acre) per season.							
	28953						Also controls woolly apple aphid. Toxic to bees. Spray							
	20933						interval: minimum 14 days.							
	Notes: Use sufficient	water v	lume to ensure thoro	I ugh and uniform cover	ane of th	ne tree lim	abs and trunks. Leave lower nozzles on when spraying high							
	density trees in order				age or ti	io troc iiii	ibo and traine. Leave level mezzies on when spraying high							
Mealybugs	spirotetramat	23	365-585 mL	148-237 mL	12 h		Apply Movento with an adjuvant such as Agral 90 after.							

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Stage of Develop	oment: Summer						
Insect or Disease	Recommended	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³	Precautions and Notes
	Product Choices					(days)	
	28953						1.83 L/ha (741 mL/acre) per season.
Apple Leaf Curling	spirotetramat	23	365-585 mL	148-237 mL	12 h	7	Suppression only. Maximum of 2 applications per season.
Midge	(Movento 240 SC)						Minimum interval between sprays: 14 days.
	28953						
	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	ling mid	ge is not a problem in	healthy bearing trees,	but it is	essential	to protect nursery and new plantings. Movento and
	Cygon/Lagon applied	against	other pests of non-be	aring trees will provide	control.	i	
Fire Blight	copper octanoate	M1	Prepare 0.5-2%		4 h	1	Apply 470-940 L of mixture/ha. Repeat every 7-10 days as
	(Cueva Commercial)		solution (5-20				long as weather conditions favour disease development
	31825		L/1000 L water)				(maximum 6 applications per season). See Fire blight
							description.
	Notes: There are no	products	that can be applied to	o cure fire blight follow	ing infec	tion. Prev	entative copper sprays may help to protect against new
	infections. Scout susc	ceptible	orchards for symptoms	s and prune out infecte	ed shoot	s, being c	areful to disinfect tools between cuts.
Post-Harvest Rots	pyrimethanil (Scala)	9	1.5-2.0L	607-810 mL	12	14	Apply 2 weeks before harvest to help control storage rots
Initiated in the	28011				h-24 h		caused by Botrytis and Penicillium. 24 hour REI for thinning.
Orchard							
Crown and Root	fosetyl-al (Aliette)	33	5.0 kg	2.0 kg	dry	30	See description of crown rot for more information.
Rot	27688						
Powdery Mildew	Notes: See petal fall	for avail	able f <mark>ungicides. Use c</mark>	aution with sulphur or	oil spray	s during h	not weather. Jonagold is sensitive to sulphur.
(Apples)							
Apple Scab							needed for the remainder of the season. If scab symptoms
	are present, continue	protecta	ant fungicide coverage	until harvest, with par	ticular co	onsideration	on to rainy weather. See Petal fall section for available
	fungicides. Check pre	e-harves	t intervals before any l	ate-season sprays.			

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

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Stage of Develop	Stage of Development: Post-Harvest											
Insect or Disease	Recommended	Grp ¹	Amount Per Ha	Amount Per Acre	REI ²	PHI ³	Precautions and Notes					
	Product Choices					(days)						
	(Parasol) 25901						per year.					

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