

Stage of Development: Dormant							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
Peach leaf curl	ferbam (Ferbam 76 WDG)	M3	6.75 kg	2.7 kg	dry	21	Apply early, before oil sprays & before bud swell. See also peach leaf curl under fall treatment.
	lime sulphur 23%	M2	10 L/100 L water		48 h	1	
	lime-sulphur 30%		7.3 L/100 L water				
	chlorothalonil (Bravo 500)	M5	5.0-7.0 L	2.0-2.8 L	48 h	60	
<b>Coryneum blight</b>	<b>Notes:</b> Prune out cankers on twigs and small branches. See Coryneum blight						
San Jose scale	dormant oil (Guardsman)	NC	90 L	36 L	12 h	n/a	Apply at bud-swell stage.
	Superior 70 oil	NC	60 L	24.3 L	12 h	n/a	Do not use prior to or during freezing temperatures or rain. Do not use after green tip stage. Apply in sufficient volume to ensure uniform coverage of trees.
	mineral oil (Purespray Green Spray Oil 13E)	NC	20L/1000 L of Water		12 h	0	Apply at dormant to pre-bloom. Do not apply just prior to or during freezing temperatures or rain.
Lecanium scale	dormant oil (Guardsman)	NC	90 L	36 L	12 h	n/a	Apply at bud-swell stage.
	<b>Additional notes:</b> Use sufficient water volume to ensure thorough and uniform coverage of the tree limbs and trunks. Leave lower nozzles on when spraying high density trees in order to control scales on the trunks.						
European red mite	mineral oil (Purespray Green Spray Oil 13E)	NC	20L/1000 L of water		12 h	0	Apply at dormant to pre-bloom. Do not apply just prior to or during freezing temperatures or rain.
	Superior 70 oil	NC	20 L/1000 L of water		12 h	0	
Peach Twig Borer	novaluron (Rimon 10 EC) + dormant oil	15	1.35-3.35 L + 38-56 L oil	0.55-1.35 L + 15-22.5 L oil	12 h	14	Apply Rimon + oil at dormant/delayed dormant. Use high rates if orchard has a history of heavy populations.
		NC					

Stage of Development: Pink							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
Peach twig borer	endosulfan (Thionex 50% WP Ⓜ)	2A	3.25 kg	1.3 kg	7-20 days	20	See page 6-25. Last date of use on peach, December 2016.
	phosmet (Imidan 50% WP)	1B	3.4 – 6 kg	1.4 – 2.4 kg	7 days	14	
	deltamethrin (Decis 5% EC)	3	200 mL	80 mL	48 h*	1	Decis is harmful to beneficial insects and mites.

<sup>1</sup>Group number for resistance management (See Resources). NC=not classified.

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

<sup>3</sup>Pre-harvest interval (See Resources – PHI). Note: always read and follow the directions on the pesticide label.

Stage of Development: Pink							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
European red & two-spotted spider mites	clofentezine (Apollo SC)	7	300 – 600 mL	120 – 240 mL	12 h	21	Apply at first sign of mite activity. See page 6-19
	bifenazate (Acramite 50 WS)	20D	851 g	344 g	12 h	7	Apply when mites first appear. Do not apply more than once/season.
Brown Rot	fluxapyroxad (Sercadis)	7	333 mL	135 mL	12 h	0	Apply when conditions favour disease development and at 7-14 day intervals, up to the blossom stage. Maximum 4 applications/season. The use of a non-ionic surfactant (0.125%) is recommended.

Stage of Development: Blossom							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
Brown rot	penthiopyrad (Fontelis)	7	1.0-1.75 L	405-709 mL	12 h	0	Do not apply more than 2 times per season. Use high rate for high disease pressure.
	boscalid (Cantus WDG)	7	370 g	150 g	12 h	0	Avoid more than 2 consecutive applications
	boscalid + pyraclostrobin (Pristine WG)	7 +11	750 g – 1 kg	304 g – 405 g	dry – 10 days	0	Also suppresses powdery mildew. Limit sprays of class 11 fungicides to 2 per season for resistance management.
	fenhexamid (Elevate 50 WDG)	17	1.7 kg	690 g	4 h	1	Avoid more than 2 consecutive applications
	iprodione (Rovral 50% WP)	2	1.5 kg – 1.75 kg	610 g – 700 g	12 h	1	Avoid more than 2 consecutive applications. Use the higher rate on large or mature trees
	thiophanate-methyl (Senator 70% WP)	1	1.75 kg	710 g	24 h*	1	
	thiram (Granuflo-T)	M3	1.5 to 2.25 kg / 1000 L water		24 h	7	Blossom blight: apply at 3-4 day intervals during bloom
	captan (Captan 80% or Maestro)	M4	3.75-4.5 kg	1.5-1.8 kg	48 h	2	Do not apply captan in combination with or immediately before or closely following oil sprays.
	fenbuconazole (Indar 75 WSP)	3	140 g	57 g	12 h	1	Limit use of group 3 fungicides (Indar, Nova, Topas, Jade, Tilt) to 2 sprays/season. Rotate with fungicides from different groups.
	myclobutanil (Nova 40 WP)	3	340 g	140 g	12 h – 12 days	1	
	propiconazole (Topas 250 E or Jade or Tilt 250E)	3	500 mL	200 mL	3 days	3	
	triforine (Funginex 19% EC)	3	2.5 L	1.0 L	48 h	Bloom only	Do not apply after blossom.

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<sup>3</sup>Pre-harvest interval (See Resources – PHI). Note: always read and follow the directions on the pesticide label.

Stage of Development: Blossom							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
Brown rot	cyprodinil (Vanguard 75 WG)	9	370 g	150 g	3 days	2	May be tank mixed with Nova (340 g/ha) or Rovral (840 g/ha)
	chlorothalonil (Bravo 500)	M5	5.0-9.0 L	2.0-3.6 L	48 h	60	Use higher rate for trees over 6 m tall, or if weather warm and wet.
	<i>Bacillus subtilis</i> (Serenade Max)	44	2.0 – 3.0 kg	800 g – 1.2 kg	24 h*	0	Suppression only. Begin at early bloom and repeat at 7 day intervals through petal fall.
<b>Additional notes:</b> Brown rot infection begins at bloom. Protect blossoms if weather is wet. Rotate fungicides for resistance management.							

Stage of Development: Petal Fall							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
Peach twig borer	chlorantraniliprole (Altacor)	28	215 - 285 g	87 - 115 g	12 h	1	Use pheromone traps to monitor adults and apply within 7 days of first trap catch of adult male moths. Do not exceed 645 g/ha (261g/ac) per season.
	cyantraniliprole (Exirel)	28	750-1000 mL	304-404 mL	12 h	3	Use pheromone traps to monitor adults and apply within 7 days of first trap catch of adult male moths. Do not apply more than 4 times/season. Do not tank mix with Flint, Pristine, Cabrio, copper or captan fungicides. Toxic to bees.
	spinosad (Success 480 or Entrust SC)	5	182 mL 364 mL	74 mL 147 mL	dry	14	Suppression only. Maximum of 3 applications/season. Avoid use when bees are active.
	novaluron (Rimon 10 EC)	15	1.35 - 3.35 L	0.55 - 1.35 L	12 h	14	Use the high rate for higher populations.
	endosulfan (Thionex 50% WP ⚠)	2A	3.25 kg	1.3 kg	7-20 days	20	Last date of use on peach, December 31, 2016.
	deltamethrin (Decis 5% EC)	3	200 mL	80 mL	48 h*	1	Decis is harmful to beneficial insects and mites.
	phosmet (Imidan 50% WP)	1B	3.4 - 6 kg	1.4 –2.4 kg	7 days	14	
<b>Additional notes:</b> To properly time spray applications, use pheromone-baited traps to monitor adult male moths. Success and Entrust will suppress thrips.							
Leafrollers (Obliquebanded and threelined)	<i>Bacillus thuringiensis</i> (Dipel 2X DF or Bioprotec CAF)	11	1.675 kg 4.0 L	678 g 1.6 L	24 h*	0	See pages 6-16. Will also help control any exposed peach twig borer larvae present.
	spinosad (Success 480 SC or Entrust SC)	5	182 mL 364 mL	74 mL 147 mL	dry	1	Do not apply more than 3 times per season.

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<sup>3</sup>Pre-harvest interval (See Resources – PHI). Note: always read and follow the directions on the pesticide label.

Stage of Development: Petal Fall							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
Leafrollers (Obliquebanded and threelined)	spinetoram (Delegate WG)	5	210 - 420 g	85 - 170 g	12 h	1	Apply at first egg hatch. Do not apply more than 3 times per season. Use higher rate under high pest pressure and/or larger larvae.
	sulfoxaflor +spinetoram (TwinGuard)	4C, 5	250-500 g	101-202 g	12 h	7	Apply when larvae are active. Do not apply more than 2 times per season. Toxic to bees.
	chlorantraniliprole (Altacor)	28	145 – 285 g	59-115 g	12 h	1	Monitor larval populations in the spring; apply when larvae are active. Do not apply more than 3 times /season, or twice per season for rates above 215 g/ha (87 g/ac).
	cyantraniliprole (Exirel)	28	500-1000 mL	202-404 mL	12 h	3	Apply when larvae are active. Do not apply more than 4 times/ season. Do not tank mix with Flint, Pristine, Cabrio, copper or captan fungicides. Toxic to bees.
	novaluron (Rimon 10 EC)	15	1.35 - 3.35 L	0.55 - 1.35 L	12 h	14	Use the high rate for higher populations. Do not apply more than 3 times/season.
	<b>Additional notes:</b> All products are stomach poisons so complete coverage is important for satisfactory control. When larvae are first noticed, apply Bt during late afternoon or on a cloudy day when no rain is forecast for 24 hours. If there is more than 2 mm rainfall within 24 h of application, re-apply product. Wait 10 days (in the absence of rain) before applying a 2nd treatment of Bt or another product. Optimum solution pH for Bt products is 6.						
Leafrollers (Fruittree and European)	<b>Notes:</b> Bt products, Success, Entrust and Exirel are registered for fruittree and European leafrollers. Use rates for obliquebanded and threelined leafrollers above and follow indicated precautions.						
Eyespotted bud moth	spinosad (Success 480 SC or Entrust SC)	5	182 mL 364 mL	74 mL 147 mL	dry	1	Do not apply more than 3 times per season.
	cyantraniliprole (Exirel)	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, Pristine, Cabrio, copper or captan fungicides. Toxic to bees.
Fruitworms	<i>Bacillus thuringiensis</i> (Dipel 2X DF or Bioprotec CAF)	11	1.675 kg 4.0 L	678 g 1.6 L	24 h*	0	See description of green fruitworms.
Lygus bugs and stink bugs	endosulfan (Thionex 50% WP ♂)	2A	3.25 kg	1.3 kg	7-20 days	20	See page 6-32. Last date of use on peach, December 31, 2016.
European red mite, Two-spotted spider mite	clofentezine (Apollo SC)	7	300 – 600 mL	120 – 240 mL	12 h	21	
	spirodiclofen (Envidor 240 SC)	23	750 mL	300 mL	12 h	7	Do not apply more than once per season.
	bifenazate (Acramite 50 WS)	20D	851 g	344 g	12 h	7	Apply at first sign of mite activity. Do not apply more than once/season.
	<b>Additional notes:</b> Determine the presence and number of predatory mites before spraying. Apply the products in sufficient water to ensure thorough and uniform coverage.						

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Stage of Development: Petal Fall							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
Brown rot	penthiopyrad (Fontelis)	7	1.0-1.75 L	405-709 mL	12 h	0	Do not apply more than 2 times per season. Use high rate for high disease pressure.
	boscalid (Cantus WDG)	7	370 g	150 g	12 h	0	Avoid more than 2 consecutive applications
	boscalid + pyraclostrobin (Pristine WG)	7 +11	750 g – 1 kg	304 g – 405 g	dry – 10 days	0	Also suppresses powdery mildew. Limit sprays of class 11 fungicides to 2 per season for resistance management.
	fenhexamid (Elevate 50 WDG)	17	1.7 kg	690 g	4 h	1	Avoid more than 2 consecutive applications
	thiophanate-methyl (Senator 70% WP)	1	1.75 kg	710 g	24 h*	1	
	thiram (Granuflo-T)	M3	1.5 to 2.25 kg / 1000 L water		24 h	7	Fruit rot: apply at petal fall and 2 weeks later, and at 7 day intervals beginning about one month before harvest.
	captan (Captan 80% or Maestro)	M4	3.75-4.5 kg	1.5-1.8 kg	48 h	2	
	fenbuconazole (Indar 75 WSP)	3	140 g	57 g	12 h	1	Limit use of group 3 fungicides (Indar, Nova, Topas, Jade, Tilt) to 2 sprays/season. Rotate with fungicides from different groups.
	myclobutanil (Nova 40WP)	3	340 g	140 g	12 h – 12 days	1	
	propiconazole (Topas 250 E or Jade or Tilt 250E)	3	500 mL	200 mL	3 days	3	
	chlorothalonil (Bravo 500)	M5	5.0-9.0 L	2.0-3.6 L	48 h	60	Use higher rate for trees over 6 m tall.
	<i>Bacillus subtilis</i> (Serenade Max)	44	2.0 – 3.0 kg	800 g – 1.2 kg	24 h*	0	Suppression only. Begin at early bloom and repeat at 7 day intervals through petal fall.
<b>Additional notes:</b> Brown rot infection begins at bloom. Protect blossoms if weather is wet. Rotate fungicides for resistance management.							

Stage of Development: Husk Fall							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
Green peach aphid and black peach aphid	imidacloprid (Admire 240 F)	4	230 mL	93 mL	24 h	7	Do not apply more than twice per season.
	flonicamid (Beleaf 50 SG)	9C	120-160 g	49-65 g	12-48 h	14	Use higher rates for greater pest populations and/or dense foliage. Maximum of 3 applications per year.
Green peach aphid and mealy plum aphid	sulfoxaflor (Closer SC)	4C	100-200 mL	40-80 mL	12 h	7	Do not apply more than 2 times/season.

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Stage of Development: Husk Fall							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
Green peach aphid and mealy plum aphid	sulfoxaflor+ spinetoram (TwinGuard)	4C, 5	250 g	101 g	12 h	7	Do not apply more than 2 times per season. Toxic to bees.
	cyantraniliprole (Exirel)	28	750-1500 mL	304-607 mL	12 h	3	Do not apply more than 4 times/season. Do not tank mix with Flint, Pristine, Cabrio, copper or captan fungicides. Toxic to bees.
	<b>Additional notes:</b> Many kinds of beneficial insects feed on aphids (See descriptions of Natural Enemies). Avoid using Group 4 products more than twice/season for all registered uses to prevent mite problems.						
Mealybugs	spirotetramat (Movento 240 SC)	23	365-585 mL	148-237 mL	12 h	7	Apply Movento with an adjuvant such as Agral 90. Do not exceed 1120 mL Movento/ha/season. Toxic to bees.
Coryneum blight	ferbam (Ferbam 76 WDG)	M3	9 kg	3.6 kg	dry	21	Application later than husk fall may leave visible deposits on fruit
	ziram (Ziram 85 W)	M3	8 kg	3.2 kg	12 h	21	
	trifloxystrobin (Flint 50WG)	11	210 - 280 g	85 - 113 g	12 h – 4 days	1	Use the higher rate for high disease pressure. Limit sprays of class 11 fungicides (Flint, Cabrio, Pristine) to 2 per season.
<b>Additional notes:</b> To prevent fruit infection, apply ferbam, Flint or ziram as soon as most of the husks have dropped for good coverage of the fruitlets.							
Powdery mildew	wettable sulphur (Kumulus 80 DF or Microthiol Disperss)	M2	7.0 kg	2.8 kg	24 h	1	Apply at husk fall and again in 2 weeks
	metrafenone (Vivando SC)	U8	750 mL – 1.12 L/ha	304 – 453 mL/ha	12 h	7	Apply prior to onset of disease and at 14-21 day intervals. Maximum of 2 applications/season.
	quinoxifen (Quintec)	13	500 mL	200 mL	12 h	7	Apply before visible symptoms, and at 10-14 day intervals. Do not make more than 2 consecutive applications.
	myclobutanil (Nova 40W)	3	340 g	140 g	12 h – 12 days	1	Limit use of group 3 fungicides (Indar, Nova, Topas, Jade, Mission) to 2 sprays/season. Rotate with fungicides from different groups.
	penthiopyrad (Fontelis)	7	1.0-1.75 L	405-709 mL	12 h	0	Do not apply more than 2 times per season. Use high rate for high disease pressure.
	boscalid + pyraclostrobin (Pristine WG)	7 +11	750 g - 1 kg	304 g - 405 g	dry - 10 days	0	Limit sprays of class 11 fungicides to 2 per season for resistance management.
	trifloxystrobin (Flint 50WG)	11	140 - 280 g	57 - 113 g	12 h – 4 days	1	Suppression only. Use the higher rate for high disease pressure. Limit sprays of class 11 fungicides (Flint, Cabrio, Pristine) to 2 per season.

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Stage of Development: Husk Fall							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
Powdery mildew	mineral oil (Purespray Green Spray Oil 13E)	NC	10 L	4 L	12 h	0	For suppression of powdery mildew, apply in a minimum of 1000 L water/ha at 10-14 day intervals. Do not use in combination with or within 14 days of sulphur or captan.
	potassium bicarbonate (MilStop)	NC	2.8 - 5.6 kg	1.1 -2.2 kg	4 h	0	Suppression only. Do not mix with other pesticides or fertilizers.
<b>Additional notes:</b> Rotate fungicides for resistance management.							

Stage of Development: Summer							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
Stink bugs	endosulfan (Thionex 50% WP ⚠)	2A	3.25 kg	1.3 kg	7-20 days	20	Last date of use on peach, December 31, 2016.
Peach tree borer	mating disruption (Isomate-P dispensers)	NC	250-625	100-250	n/a	0	Apply before moth emergence. See description of peach tree borer.
	novaluron (Rimon 10 EC)	15	1.4 L/1000L of water		12 h	14	Begin spray application 7-10 days after first trap catch. Repeat at 21 days. Spray tree trunk and scaffold limbs with a hand gun sprayer. May be harmful to predatory mites.
	endosulfan (Thionex 50% WP ⚠)	2A	See notes		7-20 days	20	Mix 1.5 kg/1000 L; apply to tree trunk and crotches when first moths are caught in pheromone traps. Repeat in 4 weeks. Last date of use on peach, December 31, 2016.
<b>Additional notes:</b> Mating disruption is very effective.							
Peach twig borer	chlorantraniliprole (Altacor)	28	215 – 285 g	87-115 g	12 h	1	Use pheromone traps to monitor adults and apply within 7 days of first trap catch of adult male moths. Do not exceed 645 g/ha (261g/ac) per season.
	cyantraniliprole (Exirel)	28	750-1000 mL	304-404 mL	12 h	3	Use pheromone traps to monitor adults and apply within 7 days of first trap catch. Do not apply more than 4 times/season. Do not tank mix with Flint, Pristine, Cabrio, copper or captan fungicides. Toxic to bees.
	novaluron (Rimon 10 EC)	15	1.35 - 3.35 L	0.55 - 1.35 L	12 h	14	Use the higher rate for higher populations.
	Spinosad (Success 480 SC Or Entrust 80W)	5	182 mL 109 g	74 mL 44 g	dry	14	Suppression only. Maximum of 3 applications/season. Avoid use when bees are active.
	endosulfan (Thionex 50% WP ⚠)	2A	3.25 kg	1.3 kg	7-20 days	20	Last date of use on peach, December 31, 2016.

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Stage of Development: Summer							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
Peach twig borer	phosmet (Imidan 50% WP)	1B	3.4 – 6 kg	1.4 – 2.4 kg	7 days	14	
	<b>Additional notes:</b> To properly time spray applications, use pheromone-baited traps to monitor adult male moths. Bt products are effective if applied before larvae tunnel into twigs, buds or fruit.						
Mealy plum aphid, Green peach aphid, Black peach aphid	imidacloprid (Admire 240 F)	4	230 mL	93 mL	24 h	7	Do not apply more than twice per season.
	clothianidin (Clutch 50 WDG)	4A	140-210 g	57-85 g	12 h	7	Do not apply more than twice/season.
	sulfoxaflor (Closer SC)	4C	100-200 mL	40-80 mL	12 h	7	Do not apply more than 2 times/season.
	flonicamid (Beleaf 50 SG)	9C	160 g	65 g	12-48 h	14	Experience in the field indicates there may be issues with current label rate.
	spirotetramat (Movento 240 SC)	23	365-435 mL	148-176 mL	12 h	7	Apply Movento with an adjuvant such as Agral 90. Do not exceed 1120 mL Movento/ha/season.
	endosulfan (Thionex 50% WP ♂)	2A	3.25 kg	1.3 kg	7-20 days	20	Last date of use on peach, December 31, 2016.
	mineral oil (Purespray Green Spray Oil 13E)	NC	10L	4	12 h	0	Prevents aphids from feeding. Begin applications when aphids first appear, allow 10 - 14 days between applications. Do not use within 14 days before or after captan or sulphur.
<b>Additional notes:</b> Avoid using Group 4/4A products more than twice/season for all registered uses to prevent mite problems. Not all stone fruit varieties have been tested for tolerance to PureSpray Green Oil 13E. It is therefore important to limit application to a small area of each variety to confirm tolerance prior to adoption as a general field practice. Post harvest sprays of Purespray may be made to reduce over-wintering pressure.							
Green peach aphid and mealy plum aphid	cyantraniliprole (Exirel)	28	750-1500 mL	304-607 mL	12 h	3	Do not apply more than 4 times/season. Do not tank mix with Flint, Pristine, Cabrio, copper or captan fungicides. Toxic to bees.
	Sulfoxaflor + spinetoram (TwinGuard)	4C, 5	250 g	101 g	12 h	7	Do not apply more than 2 times per season. Toxic to bees.
San Jose scale	spirotetramat (Movento 240 SC)	23	365-585 mL	148-237 mL	12 h	7	Apply Movento with an adjuvant such as Agral 90. Do not exceed 1120 mL Movento/ha/season.
	sulfoxaflor (Closer SC)	4C	200-400 mL	80-160 mL	12 h	7	Do not apply more than 2 times per season.
	sulfoxaflor + spinetoram (TwinGuard)	4C, 5	250-500 g	101-202 g	12 h	7	Apply when crawlers are active. Thorough coverage is important for good control. Do not apply more than 2 times per season. Toxic to bees.
<b>Additional notes:</b> Use sufficient water volume to ensure thorough and uniform coverage of the tree limbs and trunks. Leave lower nozzles on when spraying high density trees in order to control scales on the trunks.							

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Stage of Development: Summer							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
Obliquebanded and threelined leafrollers	spinosad (Success 480 SC or Entrust SC)	5	182 mL 364 mL	74 mL 147 mL	dry	1	Do not apply more than 3 times per season.
	spinetoram (Delegate WG)	5	210-420 g	85-170 g	12 h	1	Do not apply more than 3 times per season. Use the higher rate under high pest pressure and/or larger larvae.
	sulfoxaflor + spinetoram (TwinGuard)	4C, 5	250-500 g	101-202 g	12 h	7	Apply at first egg hatch. Do not apply more than 2 times per season. Toxic to bees.
	chlorantraniliprole (Altacor)	28	145 – 285 g	59-115 g	12 h	1	Monitor adult moth flight and apply at first egg hatch. Do not apply more than 3 times /season. For rates above 215 g/ha (87 g/ac), do not apply more than twice/season.
	cyantraniliprole (Exirel)	28	500-1000 mL	202-404 mL	12 h	3	Monitor adult moth flight and apply at first egg hatch. Do not tank mix with Flint, Pristine, Cabrio, copper or captan fungicides. Toxic to bees.
	novaluron (Rimon 10 EC)	15	1.35-3.35 L	0.55-1.35 L	12 h	14	Use higher rates for high populations. Maximum of 3 applications per season.
<b>Additional notes:</b> All products are stomach poisons so complete coverage is important for satisfactory control.							
Eyespotted bud moth	spinosad (Success 480 SC or Entrust SC)	5	182 mL 364 mL	74 mL 147 mL	dry	1	Do not apply more than 3 times per season.
	cyantraniliprole (Exirel)	28	500-1000 mL	202-404 mL	12 h	3	Do not apply more than 4 times per season. Do not tank mix with Flint, Pristine, Cabrio, copper or captan fungicides. Toxic to bees.
European red mite, Two-spotted spider mite	spirodiclofen (Envidor 240 SC)	23	750 mL	300 mL	12 h	7	Do not apply more than once per season.
	bifenazate (Acramite 50 WS)	25	851 g	344 g	12 h	7	Do not apply more than once/season.
	clofentezine (Apollo SC)	7	300 – 600 mL	120 – 240 mL	12 h	21	Apply at first sign of mite activity.
<b>Additional notes:</b> The presence and number of predatory mites should first be determined before spraying. Apply the products in sufficient water to ensure thorough and uniform coverage.							
European red mite	mineral oil (Purespray Green Spray Oil 13E)	NC	10L	4	12 h	0	For suppression only. Begin applications when mites first appear, allow 10 - 14 days between applications. To prevent phytotoxicity, do not apply less than 1000 L water/ha (1% solution). Do not use within 14 days before or after captan or sulphur fungicide. Post harvest sprays may be made to reduce over-wintering pressure.
	<b>Additional notes:</b> Not all stone fruit varieties have been tested for tolerance to PureSpray Green Oil 13E. It is therefore important to limit application to a small area of each variety to confirm tolerance prior to adoption as a general field practice.						

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Stage of Development: Summer							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
Peach silver mite (rust mite)	spirodiclofen (Envidor 240 SC)	23	750 mL	300 mL	12 h	7	Do not apply more than once per season.
	endosulfan (Thionex 50% WP ♂)	2A	3.25 kg	1.3 kg	7-20 days	20	Last date of use on peach, December 31, 2016.
Mealybugs	spirotetramat (Movento 240 SC)	23	365-585 mL	148-237 mL	12 h	7	Apply Movento with an adjuvant such as Agral 90. Do not exceed 1120 mL Movento/ha/season. Use high volume air-blast or hand gun applications. Toxic to bees.
Lecanium scale	spirotetramat (Movento 240 SC)	23	365-585 mL	148-237 mL	12 h	7	For suppression only. Apply Movento with an adjuvant such as Agral 90. Do not exceed 1120 mL/ha/season. Toxic to bees.
	malathion (Malathion 50% EC or Malathion 85E)	1B	5.5 L 490-855 mL /1000 L water	2.2 L 490-855 mL/1000 L water	12 h – 3 days	7 3	Apply in August or early September.
<b>Additional notes:</b> Use sufficient water volume to ensure thorough and uniform coverage of the tree limbs and trunks. Leave lower nozzles on when spraying high density trees in order to control scales on the trunks.							
Shothole borer	<b>Notes:</b> Cultural control. See description of shothole borer.						
Spotted wing drosophila	cyantraniliprole (Exirel)	28	1000-1500 mL	404-607 mL	12 h	3	Begin applications when fruit begin to ripen. Reapply at 7 day intervals. Do not apply more than 4 times/season. Will control only adult flies, NOT larvae inside fruit. Do not tank mix with Flint, Pristine, Cabrio, copper or captan fungicides. Toxic to bees.
	Spinetoram (Delegate)	5	420 g	170 g	12 h	1	See application instructions above. Maximum applications 3/season.
	phosmet (Imidan 70 WP)	1B	2.68 kg	1 kg	7 days	14	See application instructions above. Do not apply more than 4 times/season.
<b>Additional notes:</b> Emergency registration requests for Entrust, Malathion and Mako (formerly Ripcord) will be submitted for the control of spotted wing drosophila in 2016 Please see labels for rates, pre-harvest intervals and directions.							
Brown rot	captan (Captan 80% or Maestro)	M4	3.75-4.5 kg	1.5-1.8 kg	48 h	2	
	thiram (Granuflo-T)	M3	1.5 to 2.25 kg / 1000 L water		24 h	7	Fruit rot: apply at petal fall and 2 weeks later, and at 7 day intervals beginning about one month before harvest.
	iprodione (Rovral 50% WP)	2	1.5 kg – 1.75 kg	610 g – 700 g	12 h	1	Use the higher rate on large or mature trees

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Stage of Development: Summer							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
Brown rot	fenbuconazole (Indar 75 WSP)	3	140 g	57 g	12 h	1	Limit use of group 3 fungicides (Indar, Nova, Topas, Jade, Tilt) to 2 sprays/season. Rotate with fungicides from different groups.
	myclobutanil (Nova 40 W)	3	340 g	140 g	12 h – 12 days	1	
	propiconazole (Topas 250 E or Jade or Tilt 250E)	3	500 mL	200 mL	3 days	3	
	fenhexamid (Elevate 50 WDG)	17	1.7 kg	690 g	4 h	1	Avoid more than 2 consecutive applications
	penthiopyrad (Fontelis)	7	1.0-1.75 L	405-709 mL	12 h	0	Do not apply more than 2 times per season. Use high rate for high disease pressure.
	boscalid (Cantus WDG)	7	370 g	150 g	12 h	0	Avoid more than 2 consecutive applications
	boscalid + pyraclostrobin (Pristine WG)	7 +11	750 g – 1 kg	304 g – 405 g	dry – 10 days	0	Also suppresses powdery mildew. Limit sprays of class 11 fungicides to 2 per season for resistance management.
	cyprodinil (Vangard 75 WG)	9	370 g	150 g	3 days	2	May be tank mixed with Nova (340 g/ha) or Rovral (840 g/ha)
<b>Additional notes:</b> Fruit becomes increasingly susceptible to brown rot as it ripens. Rotate fungicides for resistance management. Follow pre-harvest intervals.							
Rhizopus rot and fruit decay	boscalid + pyraclostrobin (Pristine WG)	7 + 11	750 g – 1 kg	300 g – 405 g	dry – 10 days	0	Limit sprays of class 11 fungicides to 2 per season for resistance management.
	<b>Additional notes:</b> Also see Post-harvest decay, below.						

Stage of Development: Fall							
Insect or Disease	Recommended Product Choices	Grp <sup>1</sup>	Amount per		REI <sup>2</sup>	PHI <sup>3</sup> (days)	Precautions and Notes
			Ha	Acre			
Coryneum blight	fixed copper 50% WP (copper oxychloride)	M1	9 kg	3.6 kg	48 h	n/a	Apply in September after harvest before fall rains.
	copper octanoate (Cueva Commercial)	M1	Prepare 0.5 – 2% (5 – 20L/1000L water) and apply 470-940 L/ha		4 h	1	Apply as a dormant spray in late fall during a period of dry weather.
Peach leaf curl	fixed copper 50% WP (copper oxychloride)	M1	2 kg	800 g	48 h	n/a	Apply at 75-100% leaf drop during dry weather. A spring dormant spray may also be required. See description of leaf curl.
	copper octanoate (Cueva Commercial)	M1	Prepare 0.5 – 2% (5 – 20L/1000L water) and apply 470-940 L/ha		4 h	1	
	chlorothalonil (Bravo 500)	M5	5.0-7.0 L	2.0-2.8 L	48 h	n/a	
Shothole borer	<b>Notes:</b> See description of shot hole borer.						

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<sup>3</sup>Pre-harvest interval (See Resources – PHI). Note: always read and follow the directions on the pesticide label.