

| Stage of Development: Dormant | | | | | | | |
|---|--|------------------|---|---------------------|------------------|-------------------------|---|
| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
| Rust Mites and Pearleaf Blister Mite | calcium polysulphide (Lime sulphur 30%) 16465 | M2 | 7.3L/100 L of water | 7.3L/100 L of water | 48 h | n/a | Order lime-sulphur early. |
| Pear Psylla | mineral oil (Superior 70) 14981 | NC | 60 L | 24 L | 12 h | n/a | Do not apply just before or during freezing weather or rain. One application/season. |
| | mineral oil (Guardsman) 23370 | NC | 90 L | 36.4 L | 12 h | n/a | Do not apply just before or during freezing weather or rain. One application/season. |
| | mineral oil (Purespray Green) 27666 | NC | 20L/1000 L of water | 20L/1000 L of water | 12 h | 0 | Apply at dormant to green tip. Do not apply just prior to or during freezing temperatures or rain. Maximum of two dormant applications allowed per season. |
| San Jose Scale | mineral oil (Purespray Green) 27666 | NC | 20L/1000 L of water | 20L/1000 L of water | 12 h | 0 | Apply at dormant to green tip. Do not apply just prior to or during freezing temperatures or rain. Maximum of two dormant applications allowed per season. |
| European Fruit Scale | mineral oil (Purespray Green) 27666 | NC | 20L/1000 L of water | 20L/1000 L of water | 12 h | 0 | Apply at dormant to green tip. Do not apply just prior to or during freezing temperatures or rain. Maximum of two dormant applications allowed per season. |
| European Red Mite | mineral oil (Purespray Green) 27666 | NC | 20L/1000 L of water | 20L/1000 L of water | 12 h | 0 | Apply at dormant to green tip. Do not apply just prior to or during freezing temperatures or rain. Maximum of two dormant applications per season. |
| 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). Remove cankers by March 31. See fire blight description. The higher rate for dormant sprays is more likely to be effective. |
| | Notes: Remove cankers from trees by March 31. | | | | | | |

| Stage of Development: Dormant to Silver Tip | | | | | | | |
|---|---|------------------|----------------------------------|-----------------------------------|------------------|-------------------------|--|
| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
| 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. |
| | 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. |

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Stage of Development: Silver Tip to Green Tip

| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
|--------------------|---|------------------|---------------|-----------------|------------------|-------------------------|---|
| Pear Psylla | mineral oil (Superior 70) 14981 | NC | 60 L | 24 L | 12 h | 0 | Apply before egg laying. Do not use prior to or during freezing temperatures or rain. |
| | mineral oil (Guardsman) 23370 | NC | 90 L | 36.4 L | 12 h | n/a | Apply when egg laying begins. Do not use prior to or during freezing temperatures or rain. One application per year |
| Lygus Bugs | Notes: No products are currently registered for this pest. Contact your field advisor. | | | | | | |

Stage of Development: 15 mm Green to Tight Cluster

| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
|--------------------------------|---|------------------|---------------------------|---------------------------|------------------|-------------------------|---|
| Powdery Mildew (Apples) | ipflufenquin (Migiwa 20 SC) 35443 | 52 | 165 - 220 ml | 66.8 - 89 ml | 12 h | 7 days | The 165 ml/ha rate provides suppression of powdery mildew. If disease pressure is moderate or high or if control is required, use the 220 ml/ha rate. The retreatment interval is 7 to 10 days. Do not make more than two sequential applications. |
| Powdery Mildew (Pears) | 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 at a rate of 0.1% could help to improve the spreading. |
| | Mineral oil (Suffoil-X) 33099 | NC | 10 L/1000 L of water | 10 L/1000 L of water | 12 hours | 0 | Test for crop tolerance before widespread use. Apply at tight cluster and continue every 10-14 days. Avoid application during bloom. Do not use within 14 days before or after captan fungicide. Do not apply more than 8 applications 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. Do not use with horticultural mineral oil on pears. |
| | 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. |

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| Stage of Development: Tight Cluster (Cluster Bud) | | | | | | | |
|---|---|------------------|---------------|-----------------|------------------|-------------------------|---|
| 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 | mineral oil (Superior 70) 14981 | NC | 60 L | 24 L | 24 h | n/a | Do not use dormant oil more than twice pre bloom. |
| | mineral oil (Guardsman) 23370 | NC | 90 L | 36 L | 12 h | n/a | Do not use dormant oil more than twice pre bloom. |
| San Jose Scale | mineral oil (Superior 70) 14981 | NC | 60 L | 24 L | 12 h | n/a | Apply at true dormant for scales. |
| | mineral oil (Guardsman) 23370 | NC | 90 L | 36 L | 12 h | n/a | Do not use dormant oil more than once pre bloom. |
| European Fruit Scale | mineral oil (Superior 70) 14981 | NC | 60 L | 24 L | 12 h | n/a | Apply at true dormant for scales. |
| | mineral oil (Guardsman) 23370 | NC | 90 L | 36 L | 12 h | n/a | Do not use dormant oil more than once pre bloom. |
| Pear Scab | Notes: Pear scab is not a common problem in the Okanagan and Similkameen valleys. Pears grown in higher rainfall areas are at higher risk. Registered fungicides include Aprovia, Aprovia Top, Scala, Sercadis, Fontelis, Flint, Merivon, Nova, Serenade Opti, Sovran, Inspire Super, Luna Tranquility, Syllit, Captan, Maestro, Ferbam and lime sulphur. Refer to pear scab description for more information. | | | | | | |

| Stage of Development: Pink | | | | | | | |
|----------------------------|---|------------------|---------------|-----------------|------------------|-------------------------|--|
| 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. |
| | spinosad (Success) 26835 | 5 | 182 mL | 74 mL | dry | 7 | Do not apply more than 3 times/season. |
| | 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. |
| | spinosad (Entrust) 30382 | 5 | 364 mL | 147 mL | dry | 7 | Do not apply more than 3 times per season. Spray interval: 7 to 10 days. |
| | spinetoram (Delegate) 28778 | 5 | 210-420 g | 85-170 g | | 7 | Do not apply more than 3 times per season for all labeled uses. Provides 14 days protection in absence of rain. Spray interval: 14 days. |
| | chlorantraniliprole (Altacor) 28981 | 28 | 145-285 g | 59-115 g | 12 h | 5 | Apply when larvae are active. Do not apply more than 3 times per season. |
| Green Fruitworms | Chlorantraniliprole (Altacor MaX) 34654 | 28 | 73 - 108 g | 30 - 44 g | 12 h | 5 | Repeat if necessary at petal fall. Do not apply more than 3 times per season. Spray interval - 10 to 14 days. |

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| Stage of Development: Pink | | | | | | | |
|---|---|------------------|------------------|-----------------|------------------|-------------------------|---|
| 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. |
| | 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 other leaf-feeding larvae present. |
| | Bacillus thuringiensis (Foray) 24978 | 11 | 4.0 L | 1.6 L | 24 h* | 0 | Will also control bud moth. |
| | chlorantraniliprole (Altacor) 28981 | 28 | 145-215 g | 59-87 g | 12 h | 5 | Repeat if necessary at petal fall. Do not apply more than 3 times per season. Spray interval - 10 to 14 days. |
| Obliquebanded and Threelined Leafrollers | cyclaniliprole (Harvanta 50SL) 32889 | 28 | 1.2 - 1.6 L | 485 - 647 ml | 12 | 7 days | Toxic to bees. Do not make more than 3 applications per crop year. Where possible, rotate the use of Harvanta or other Group 28 insecticides with different groups that control the same pests. |
| | Bacillus thuringiensis (Bioprotec PLUS) 32425 | 11 | 1.8-2.5 L | 0.73-1.0 L | 24 h* | 0 | Will also control other leaf-feeding larvae present. See Notes. |
| | spinosad (Success) 26835 | 5 | 182 mL | 74 mL | dry | 7 | Maximum 3 applications/season |
| | Bacillus thuringiensis (Bioprotec CAF) 26854 | 11 | 4.0 L | 1.6 L | 24 h* | 0 | Will also control bud moth. Spray interval: 7 days under optimal conditions. |
| | cyantraniliprole (Exirel) 30895 | 28 | 500-1000 mL | 202-404 mL | 12 h | | Apply when larvae are active. Do not apply more than 4 times/season. Do not tank mix with Flint, Sovran 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: 7 to 10 days. |
| | spinetoram (Delegate) 28778 | 5 | 210-420 g | 85 g -170 g | 12 h | 7 | Use higher rate under high pest pressure. Do not apply more than 3 times per season for all uses. Spray interval: 14 days. |

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| Stage of Development: Pink | | | | | | | |
|-------------------------------|--|------------------|---------------------------|---------------------------|------------------|-------------------------|--|
| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
| | Bacillus thuringiensis (Foray) 24978 | 11 | 4.0 L | 1.6 L | 24 h* | 0 | Will also control bud moth. |
| | Notes: All recommended products are stomach poisons so thorough coverage is important for satisfactory control. Apply Bt products when 80% or more during late afternoon or on cloudy day when no rain is forecast for 24 hours. If there is more than 2 mm of rainfall within 24 hours of application, repeat treatment. Wait 7 days (in the absence of rain) before applying a second treatment of Bt or other product if active larvae still present. Optimum pH for Bt products is 6. | | | | | | |
| Pear Psylla | Insecticidal soap | NC | 20-25 L | 8-10 L | 24 h* | 0 | Use a minimum of 1900-2475 L of spray mixture/ha (800-1000 L/acre) to ensure thorough and uniform coverage. |
| Codling Moth | pheromone (Isomate CM Flex) 31589 | NC | 1000 | 400 | n/a | 0 | Dispensers must be hung before first expected emergence of moths. |
| | pheromone (Isomate CM/LR TT) 28814 | NC | 750 dispensers | 300 dispensers | n/a | 0 | |
| | pheromone (Isomate C+) 22899 | NC | 1000 | 400 | n/a | 0 | Dispensers must be hung before first expected emergence of moths. |
| Powdery Mildew (Pears) | ipflufenquin (Migiwa 20 SC) 35443 | 52 | 165 - 220 ml | 66.8 - 89 ml | 12 h | 7 days | The 165 ml/ha rate provides suppression of powdery mildew. If disease pressure is moderate or high or if control is required, use the 220 ml/ha rate. The retreatment interval is 7 to 10 days. Do not make more than two sequential applications. |
| | 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 at a rate of 0.1% could help to improve the spreading. |
| | fenazaquin (Magister SC) 34544 | 21 + 39 | 1.75 - 2.63 L | 0.7 - 1.1 L | 12 h - 17 days | 10 days | Toxic to bees. Avoid application during bloom. Maximum number of applications: 1 |
| | sulphur (Cosavet DF Edge 31869, Kumulus 18836, Microthiol 29487) | M2 | 7.0 kg | 2.8 kg | 24 h | 1 | |
| | pyraclostrobin + fluxapyroxad (Merivon) 33951 | 7 + 11 | 0.3 - 0.4 L | 0.12 - 0.16 L | 12 h - 12 days | 5 days (hand harvest) | Limit sprays of Group 11 fungicides to 2 sprays/season. REI's: hand thinning - 12 days, hand harvesting - 5 days, mechanical harvesting and all other activities - 12 hours. |
| | Mineral oil (Suffoil- | NC | 10 L/1000 L of water | 10 L/1000 L of water | 12 | 0 | Test for crop tolerance before widespread use. Apply at tight |

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| Stage of Development: Pink | | | | | | | |
|----------------------------|---|------------------|----------------|-----------------|------------------|-------------------------|---|
| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
| | X) 33099 | | | | hours | | cluster and continue every 10-14 days. Avoid application during bloom. Do not use within 14 days before or after captan fungicide. Do not apply more than 8 applications 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. Do not use with horticultural mineral oil on pears. |
| | 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 days | Rotate with other fungicides that do not contain group 3 or group 7 fungicides for resistance management. Do not apply more than 2 consecutive applications. |
| | benzovindiflupyr (Aprovia) 31981 | 7 | 500 mL | 202 mL | 12 h | 30 | Rotate with other non-Group 7 products. Do not apply in two consecutive sprays nor more than 2 L/ha (1.0 L/acre) per season. |
| | fluxapyroxad (Sercadis) 31697 | 7 | 167-333 mL | 68-135 mL | 12 h | 0 | The use of a non-ionic surfactant (0.125%) is recommended. Begin treatment when conditions favour disease development. Apply a second spray 7-14 days up to blossom 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) to 2 sprays/season for resistance management. |
| | calcium polysulphide (Lime sulphur 30%) 16465 | M2 | 9L/1000 L | 9L/1000 L | 48 h | 1 | |
| | 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/season. Rotate with other fungicides for resistance management. |
| | kresoxim-methyl (Sovran) 26257 | 11 | 240 - 360 g | 100 - 150 g | 48 h | 30 | Limit use of class 11 fungicides (Flint, Sovran, Pristine) to 2 per season for resistance management. Use high rate for |

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Stage of Development: Pink

| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
|--|---|------------------|---------------|-----------------|------------------|-------------------------|---|
| | | | | | | | high disease pressure. Caution: Sovran drift may injure cherries. |
| | 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 per season for resistance management. Use high rate for high disease pressure. Caution: Sovran drift 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. |
| | boscalid + pyraclostrobin (Pristine WG) 27985 | 7 + 11 | 1.0 - 1.2 kg | 405 - 485 g | dry to 12 days | 5 | Limit sprays of Group 11 fungicides (Flint, Sovran, Pristine) to 2 per season for resistance management. 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 | 72 days | Use preventatively. Do not apply more than 2 times per season. |
| Notes: Additional notes: Rotate fungicides from different groups for resistance management. | | | | | | | |

Stage of Development: Blossom

| 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 | 0.73-1.0 L | 24 h* | 0 | Will also control other leaf-feeding larvae present. See Notes. |
| | Bacillus thuringiensis (Bioprotec CAF) 26854 | 11 | 4 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. |
| | Bacillus thuringiensis (Foray) 24978 | 11 | 4.0 L | 1.6 L | 24 h* | 0 | Will also control other leaf-feeding larvae present. |

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| Stage of Development: Blossom | | | | | | | |
|--|---|------------------|---|------------------------------|------------------|-------------------------|--|
| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
| Green Fruitworms | Bacillus thuringiensis (Bioprotec PLUS) 32425 | 11 | 1.8-2.5 L | 0.73-1.0 L | 24 h* | 0 | Will also control other leaf-feeding larvae present. See Notes. Spray interval: 7 days under optimal conditions. |
| | Bacillus thuringiensis (Bioprotec CAF) 26854 | 11 | 4.0 L | 1.6 L | 24 h* | 0 | Will also control bud moth. Spray interval: 7 days under optimal conditions. |
| | Bacillus thuringiensis (Dipel 2X DF) 26508 | 11 | 1.125 - 1.675 kg | 455 - 678 g | 24 h* | 0 | Will also control bud moth. |
| | 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. Spray interval: 7 days under optimal conditions. |
| | Bacillus thuringiensis (Bioprotec CAF) 26854 | 11 | 4.0 L | 1.6 L | 24 h* | 0 | Will also control bud moth. Spray interval: 7 days under optimal conditions. |
| | Bacillus thuringiensis (Dipel 2X DF) 26508 | 11 | 1.125 - 1.675 kg | 455 - 678 g | 24 h* | 0 | Will also control bud moth. |
| | Bacillus thuringiensis (Foray) 24978 | 11 | 4.0 L | 1.6 L | 24 h* | 0 | Will also control bud moth. |
| Fire Blight | 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 registered non-ionic surfactant such as Agral 90 or AgSurf at a rate of 0.1% could help to improve the spreading. |
| | copper oxychloride (Guardsman Copper Oxychloride 13245) | M1 | 1.75 kg | 710 g | 48 h | n/a | Use on Bartlett's only. See fire blight description. |
| | 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. See Fire blight description. |

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Stage of Development: Blossom

| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
|--|---|------------------|-------------------------------|------------------------------|------------------|-------------------------|--|
| | Bacillus amyloliquefaciens (Double Nickel 55) 31888 | 44 | 1-1.5 kg | 405-607 g | | 0 | Suppression only. Apply at blossom to end of flowering at 3- to 7-day intervals. Can be mixed with copper sprays. Can be applied post-bloom for shoot blight management. |
| | Aureobasidium pullulans (Blossom Protect) 30552 | NC | See label | See label | dry | n/a | Apply up to 4 times from 10-90% bloom if weather conditions favour blossom infection. |
| | streptomycin sulphate (Streptomycin 17) 10305 | 25 | 1.8 kg or 100 ppm (see notes) | 729 g or 100 ppm (see notes) | 24 h - 14 days | 30 | Apply at blossom stage if weather conditions favour blossom infection. Maximum 3 applications (5.4 kg/ha/season). 100 ppm rate (600 g of Streptomycin per 1000 L of water) is based on high volume spray. Use sufficient water volume for thorough blossom wetting. 14 day REI for thinning. |
| | kasugamycin (Kasumin) 30591 | 24 | 5.0 L | 2.0 L | 12 h | 90 | Apply at 20-30% bloom or when conditions favour disease development. Do not apply after petal fall. |
| | Bacillus subtilis (Serenade Opti) 31666 | 44 | 1.1-1.7 kg | 445-688 g | 24 h* | 0 | Suppression only. Apply at 1-5% blossom and repeat as needed during the blossom period. |
| | copper oxychloride (Copper Spray 19146) | M1 | 1.75 kg | 710 g | 48 h | n/a | Use on Bartlett's only. See fire blight description. |
| Notes: Warm weather followed by rain favours blossom infection. See description of fire blight for information on risk assessment based on temperature. | | | | | | | |

Stage of Development: Petal fall or Calyx

| 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. |
| | abamectin + cyantraniliprole (Minecto Pro) 33023 | 6 + 28 | 496 - 741 mL | 201 - 300 mL | 12 h | 28 | Monitor larval population in the Spring, and apply when overwintering larvae become active. Add 0.25 - 1% spray oil/spray mixture. Also controls pear psylla and mites. Do not exceed 1.0 L/ha 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 | 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. |
| | | | | | | | |

¹Group number for resistance management. NC=not classified.²Re-entry interval on the label (Pesticides Chapter). An asterisk(*) indicates that no re-entry is shown on the label, but the WorkSafe BC re-entry interval may apply and is shown.³Pre-harvest interval (Pesticides Chapter). Note: always read and follow the directions on the pesticide label.

| Stage of Development: Petal fall or Calyx | | | | | | | |
|--|--|------------------------|----------------------|------------------------|------------------------|-------------------------------|---|
| Insect or Disease | Recommended Product Choices | Grp¹ | Amount Per Ha | Amount Per Acre | REI² | PHI³ (days) | Precautions and Notes |
| Green Fruitworms | spinosad (Entrust) 30382 | 5 | 364 mL | 147 mL | dry | 7 | Do not apply more than 3 times per season. Spray interval: 7 to 10 days. |
| | chlorantraniliprole (Altacor) 28981 | 28 | 145-285 g | 59-115 g | 12 h | 5 | 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. |
| | Chlorantraniliprole (Altacor MaX) 34654 | 28 | 73 - 108 g | 30 - 44 g | 12 h | 5 | Repeat if necessary at petal fall. Do not apply more than 3 times per season. Spray interval - 10 to 14 days. |
| | Bacillus thuringiensis (Bioprotec PLUS) 32425 | 11 | 1.8-2.5 L | 0.73-1.0 L | 24 h* | 0 | Will also control other leaf-feeding larvae present. See Notes. Spray interval: 7 days under optimal conditions. |
| | Bacillus thuringiensis (Bioprotec CAF) 26854 | 11 | 4.0 L | 1.6 L | 24 h* | 0 | Will also control bud moth. Spray interval: 7 days under optimal conditions. |
| Obliquebanded and Threelined Leafrollers | 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 | 145-215 g | 59-87 g | 12 h | 5 | Do not apply more than 3 times per season. Spray interval - 10 to 14 days. |
| | Chlorantraniliprole (Altacor MaX) 34654 | 28 | 73 - 143 g | 30 - 58 g | 12 h | 5 | Apply when larvae become active. Do not apply more than 3 times/ season. Spray interval: 10 to 14 days (see label). |
| | GS-omega/kappa-Htx-Hv1a (Spear Lep) 34678 | 32 | 1.2 - 2.3 L | 486 - 931 mL | 4 h | 0 | Tank mix with the low labelled rate of a Bacillus thuringiensis (Bt) product registered on the same crop for control of caterpillars such as Bioprotec, Dipel or Foray. Use a spreader/sticker or non-ionic surfactant (0.125%) to enhance the adhesion of Spear Lep. |
| | tetraniliprole (Vayego 200 SC) 33711 | 28 | 225 ml | 91 ml | 12 hours | 7 days | Max 3 applications per year. Toxic to bees. Do not apply during pre-bloom or blooming period. Apply post-bloom only. |
| | abamectin + cyantraniliprole (Minecto Pro) 33023 | 6 + 28 | 496 - 741 mL | 201 - 300 mL | 12 h | 28 | Monitor larval population in the Spring, and apply when overwintering larvae become active. Add 0.25 - 1% spray oil/spray mixture. Also controls pear psylla and mites. Do not exceed 1.0 L/ha 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 control the same pests. |

¹Group number for resistance management. NC=not classified.²Re-entry interval on the label (Pesticides Chapter). An asterisk(*) indicates that no re-entry is shown on the label, but the WorkSafe BC re-entry interval may apply and is shown.³Pre-harvest interval (Pesticides Chapter). Note: always read and follow the directions on the pesticide label.

| Stage of Development: Petal fall or Calyx | | | | | | | |
|--|---|------------------|----------------------|----------------------|------------------|-------------------------|---|
| 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. Spray interval: 7 days under optimal conditions. |
| | spinosad (Success) 26835 | 5 | 182 mL | 74 mL | dry | 7 | Do not apply more than 3 times/season. Spray interval: 7 to 10 days. |
| | Bacillus thuringiensis (Bioprotec CAF) 26854 | 11 | 4.0 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. Spray interval: 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 higher rate under high pest pressure and/or larger larvae. Spray interval: 14 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 | Monitor larval populations in the spring and apply when larvae are active. 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 interval - 10 to 14 days. |
| | tebufenozide (Confirm) 24503 | 18 | 1 L | 405 mL | dry - 12 h | 14 | Will also control bud moth. Spray interval: 10 to 14 days. |
| Notes: All recommended products are stomach poisons so through coverage is important for good control. Apply Bt products when 80% bloom or more during late afternoon or on a cloudy day when there is no risk of rain for 24 hours. If there is more than 2 mm of rainfall within 24 hours of application, repeat the treatment. Wait 7 days (in the absence of rainfall) before applying a second treatment of Bt or other product if active larvae still present. Optimum pH for Bt products is 6. | | | | | | | |
| McDaniel, Twospotted Spider Mites | 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 |

¹Group number for resistance management. NC=not classified.²Re-entry interval on the label (Pesticides Chapter). An asterisk(*) indicates that no re-entry is shown on the label, but the WorkSafe BC re-entry interval may apply and is shown.³Pre-harvest interval (Pesticides Chapter). Note: always read and follow the directions on the pesticide label.

| Stage of Development: Petal fall or Calyx | | | | | | | |
|---|--|------------------|------------------|-----------------|------------------|-------------------------|---|
| 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 - 1000 mL | 201 - 405 mL | 12 h | 28 | Add 0.25 - 1% spray oil/ spray mixture. Also controls leafroller and mites. Do not exceed 1.0 L/ha per season. |
| Fruittree and European Leafrollers | abamectin + cyantraniliprole (Minecto Pro) 33023 | 6 + 28 | 496 - 741 mL | 201 - 300 mL | 12 h | 28 | Monitor larval population in the Spring, and apply when overwintering larvae become active. Add 0.25 - 1% spray oil/spray mixture. Also controls pear psylla and mites. Do not exceed 1.0 L/ha per season. |
| | Bacillus thuringiensis (Bioprotec PLUS) 32425 | 11 | 1.8-2.5 L | 0.73-1.0 L | 24 h* | 0 | Will also control other leaf-feeding larvae present. See Notes. Spray interval: 7 days under optimal conditions. |
| | spinosad (Success) 26835 | 5 | 182 mL | 74 mL | dry | 7 | Do not apply more than 3 times/season. Spray interval: 7 to 10 days. |
| | Bacillus thuringiensis (Bioprotec CAF) 26854 | 11 | 4.0 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 | 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 Flint, Sovran, Pristine, captan or copper fungicides. TOXIC to bees. |
| | spinosad (Entrust) 30382 | 5 | 364 mL | 147 mL | dry | 7 | Do not apply more than 3 times per season. Spray interval: 7 to 10 days. |
| | spinetoram (Delegate) 28778 | 5 | 210-420 g | 85-170 g | | 7 | Do not apply more than 3 times per season including all labeled uses. Spray interval: 14 days. |
| | Bacillus thuringiensis (Foray) 24978 | 11 | 4 L | 1.6 L | 24 h* | 0 | Will 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 than 3 applications per crop year. Where possible, rotate the use of Harvanta or other Group 28 insecticides with different groups that control the same pests. |
| San Jose Scale | sulfoxaflor (Closer) 30826 | 4C | 200-400 mL | 80-160 mL | 12 h | 7 | Do not apply during bloom or when flowering weeds are present. Do not apply more than 2 times per season. Spray interval: minimum 7 days. |

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Stage of Development: Petal fall or Calyx

| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
|-------------------------------|---|------------------|---------------------------|---------------------------|------------------|-------------------------|---|
| Powdery Mildew (Pears) | ipflufenquin (Migiwa 20 SC) 35443 | 52 | 165 - 220 ml | 66.8 - 89 ml | 12 h | 7 days | The 165 ml/ha rate provides suppression of powdery mildew. If disease pressure is moderate or high or if control is required, use the 220 ml/ha rate. The retreatment interval is 7 to 10 days. Do not make more than two sequential applications. |
| | 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 at a rate of 0.1% could help to improve the spreading. |
| | Mineral oil (Suffoil-X) 33099 | NC | 10 L/1000 L of water | 10 L/1000 L of water | 12 hours | 0 | Test for crop tolerance before widespread use. Apply at tight cluster and continue every 10-14 days. Avoid application during bloom. Do not use within 14 days before or after captan fungicide. Do not apply more than 8 applications 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. Do not use with horticultural mineral oil on pears. |
| | 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. |

Stage of Development: Summer

| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
|--|--------------------------------|------------------|----------------------|----------------------|------------------|-------------------------|--|
| McDaniel, Twospotted Spider Mites | pyridaben (Nexter SC) 33433 | 21 | 500 - 1000 ml | 202 404 ml | 24 h | 25 days | Do not apply more than twice per year. Controls rust mite. Residual control: 7-10 days. |
| | fenazaquin (Magister SC) 34544 | 21 + 39 | 1.75 - 2.34 L | 0.7 - 0.95 L | 12 h - 17 days | 10 days | Toxic to bees. Avoid application during bloom. Maximum number of applications: 1 |
| | Mineral oil (Suffoil-X) 33099 | NC | 10 L/1000 L of water | 10 L/1000 L of water | 12 hours | 0 | Test for crop tolerance before widespread use. Apply every 10 - 14 days, depending on level of pest pressure. Do not use |

¹Group number for resistance management. NC=not classified.²Re-entry interval on the label (Pesticides Chapter). An asterisk(*) indicates that no re-entry is shown on the label, but the WorkSafe BC re-entry interval may apply and is shown.³Pre-harvest interval (Pesticides Chapter). Note: always read and follow the directions on the pesticide label.

| Stage of Development: Summer | | | | | | | |
|---|---|------------------|---------------|-----------------|------------------|-------------------------|---|
| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
| | | | | | | | 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 - 1000mL | 201 - 405 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. Do not exceed 1.0 L/ha per season. |
| | cyflumetofen (Nealta) 31284 | 25 | 1 L | 405 mL | 12 h | 7 | Do not apply more than 2 times/season. Spray interval: 14 days. |
| | abamectin (Agri-Mek SC) 31607 | 6 | 170-340 mL | 69-139 mL | dry | 28 | Must be applied with 0.25% oil. Maximum 2 applications @ 170 mL/ha rate; maximum one application @ 340 mL/ha rate. Spray interval: 21 days. |
| | acequinocyl (Kanemite) 28641 | 20B | 2.1 L | 850 mL | 14 | | Do not apply more than 2 times/season. Controls all life stages. Spray interval: 21 days. |
| | pyridaben (Nexter) 25135 | 21 | 300-600 g | 120-240 g | 24 h | 25 | Use the higher rate for spider mites. Will also control rust mites. Maximum 2 applications per season. Residual control: 7-10 days. |
| | spirodiclofen (Envidor) 28051 | 23 | 750 mL | 300 mL | 12 h | 7 | Only one application per season. 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. Residual control: 45 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 before spraying. Apply products in sufficient water to ensure thorough and uniform coverage. | | | | | | |
| Rust Mites and Pearleaf Blister Mite | 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. |
| | 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 |
| | sulphur (Cosavet DF Edge 31869, Kumulus 18836, Microthiol 29487) | M2 | 6.0 kg | 2.4 kg | 24 h | 1 | |
| | abamectin + cyantraniliprole (Minecto Pro) 33023 | 6 + 28 | 496 - 1000 mL | 201 - 405 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. Do not exceed 1.0 L/ha per season. |
| | abamectin (Agri-Mek SC) 31607 | 6 | 170-340 mL | 69-138 mL | dry | 28 | Must be applied with 0.25% oil. Maximum 2 applications @ 170 mL/ha rate; maximum one application @ 340 mL/ha |

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| Stage of Development: Summer | | | | | | | |
|------------------------------|---|------------------|---------------|-----------------|------------------|-------------------------|---|
| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
| | | | | | | | rate. Spray interval: 21 days. |
| | pyridaben (Nexter) 25135 | 21 | 300 g | 121 g | 24 h | 25 | Maximum 2 applications/season. Residual control: 7-10 days. |
| | spirodiclofen (Envidor) 28051 | 23 | 750 mL | 300 mL | 12 h | 7 | Only one application per season. Spray interval: minimum 7 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. 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 - 1000mL | 201 - 405 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. Do not exceed 1.0 L/ha per season. |
| | cyflumetofen (Nealta) 31284 | 25 | 1 L | 405 mL | 12 h | 7 | Do not apply more than 2 times/season. Spray interval: 14 days. |
| | abamectin (Agri-Mek SC) 31607 | 6 | 170-340 mL | 69-138 mL | dry | 28 | Must be applied with 0.25% oil. Maximum 2 applications @ 170 mL/ha rate; maximum one application @ 340 mL/ha rate. Spray interval: 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 | Use the higher rate for spider mites. Maximum 2 applications per season. Will also control rust mites. Residual control: 7-10 days. |
| | spirodiclofen (Envidor) 28051 | 23 | 750 mL | 300 mL | 12 h | 7 | Only one application per season. Spray interval: minimum 7 days. |
| | clofentezine (Apollo) 21035 | 10 | 300-600 mL | 120-240 mL | 24 h | 21 | Do not apply more than once per season. |
| | 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. 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. |
| | 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 before spraying. Apply products in sufficient water to ensure thorough and uniform coverage. | | | | | | |
| | Notes: Not all pear varieties have been tested for tolerance to Purespray Green Oil. It is therefore important to limit application to a small area of each variety to confirm tolerance prior to application as a general field practice. Post harvest sprays may be applied to reduce overwintering populations. | | | | | | |

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| Stage of Development: Summer | | | | | | | |
|------------------------------|--|------------------|-------------------------|------------------------|------------------|-------------------------|--|
| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
| Pear Psylla | pyridaben (Nexter SC) 33433 | 21 | 1000 - 1200 ml | 405 - 485 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 - 2.63 L | 0.7 - 1.1 L | 12 h - 17 days | 10 days | Toxic to bees. Avoid application during bloom. Maximum number of applications: 1 |
| | abamectin + cyantraniliprole (Minecto Pro) 33023 | 6 + 28 | 496 - 1000 mL | 201 - 405 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. Do not exceed 1.0 L/ha per season. |
| | flupyradifurone (Sivanto Prime) 31452 | 4D | 750-1000 mL + 0.25% oil | 304-405 mL + 0.25% oil | 12 h | 14 | Suppression only. Addition of 0.25% oil may cause fruit injury to certain varieties of pears, particularly Anjou. Observe precautions on oil labels before using. Minimum interval between applications: 10 days. Maximum amount per season: 2000 mL/ha (810 mL/acre). |
| | Insecticidal soap | NC | 20-25 L | 8-10 L | 24 h* | 0 | Use a minimum of 1900-2475 L of spray mixture/ha (800-1000 L/acre) to ensure thorough and uniform coverage. |
| | abamectin (Agri-Mek SC) 31607 | 6 | 170-340 mL | 69-138 mL | dry | 28 | Must be applied with 0.25% oil. Maximum 2 applications @ 170 mL/ha rate; maximum one application @ 340 mL/ha rate. Spray interval: 21 days. |
| | pyridaben (Nexter) 25135 | 21 | 600 - 720 g | 240 - 291 g | 24 h | 25 | Use the higher rate for spider mites. Will also control rust mites. Maximum 2 applications per season. Residual control: 7-10 days. |
| | acetamiprid (Assail) 27128 | 4 | 80-160 g | 32-64 g | 12 h-6 days | 7 | Do not apply more than twice per season. Spray interval - 12 days. REIs of 2 days for scouting and 6 days is for thinning. |
| | 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. | | | | | | |
| Codling Moth | Chlorantraniliprole (Altacor MaX) 34654 | 28 | 73 - 108 g | 30 - 44 g | 12 h | 5 | Apply at first egg hatch based on pheromone trap catches and degree days after biofix. Controls eggs and larvae. Also controls leafroller. Do not exceed 322 g/ha (130 g/ac) per season. Will provide control of apple clearwing moth. |
| | GS-omega/kappa-Htx-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. |

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| Stage of Development: Summer | | | | | | | |
|------------------------------|---|------------------|---------------|-----------------|------------------|-------------------------|--|
| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
| | 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 pheromone trap captures and degree days after biofix. Also controls leafroller. |
| | abamectin + cyantraniliprole (Minecto Pro) 33023 | 6 + 28 | 556 mL | 225 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 pear psylla and mites. Do not exceed 1.0 L/ha 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 control 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 of second generation codling moth based on pheromone trap catches and degree days after biofix. Also controls leafroller. Do not tank mix with Flint, Sovran, 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. Will not control leafrollers. Highly toxic to bees. Minimum interval between sprays: 14 days. Max applications per season: 2. All hand thinning must occur prior to application. |
| | acetamiprid (Assail) 27128 | 4 | 240 g | 97 g | 12 h-6 days | 7 | Does not control leafrollers. High toxicity to bees. Do not apply more than twice per season. Spray interval - 12 days. REIs of 2 days for scouting and 6 days is for thinning. |
| | thiacloprid (Calypso) 28429 | 4 | 290-440 mL | 117-178 mL | 12 h | 30 | Controls larvae. Does not control leafrollers. Low toxicity to bees. High toxicity to lacewings. Use low rate for first brood if low to moderate pressure: use high rate for 2nd brood. Do not exceed a total of 870 mL/ha (352 mL/ac) per season. Spray interval: 14 to 21 days. |
| | spinetoram (Delegate) 28778 | 5 | 420 g | 170 g | 12 h | 7 | Will also provide control of leafroller and bud moth. Rain fast when dry. Use a high pH in spray solution. Apply at first egg hatch based on pheromone trap catches and degree days after biofix. Controls larvae before they enter the fruit so early timing is important. Do not apply more than 3 times per season. Use higher rate under high pest pressure. Spray |

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| Stage of Development: Summer | | | | | | | |
|---|---|------------------|---------------|-----------------|------------------|-------------------------|---|
| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
| | | | | | | | interval: 14 days. |
| | chlorantraniliprole (Altacor) 28981 | 28 | 145-215 g | 58-87 g | 12 h | 5 | Controls eggs and larvae. Also provides control of leafroller. Apply at first egg hatch based on pheromone trap catches and degree days after biofix. Do not exceed 645g/ha (261g/ac)/season. |
| | mineral oil (Purespray Green) 27666 | NC | 10 L | 4 L | 12 h | 0 | Apply at or just before egg laying. Apply in a minimum of 1000L water/ha. Do not use in combination with or within 14 days of sulphur or captan. Also provides control of aphids and suppression of mites and powdery mildew. |
| | Notes: For suppression only. Do not apply more than a total of 420 g/ha/ (170 g/ac)/season. Spray interval: 14 days. Clutch will no longer be registered for use by growers as of April 11, 2021. | | | | | | |
| | Notes: Thorough and timely spray coverage is essential for good control. All products except Groups 1B, 4 and 4A will also control any leafroller and bud moth larvae present. Avoid using Group 4 products more than 2 times/season for all registered uses to prevent mite problems. Group 4 products will also control aphids and leafhoppers present. To minimize risk of developing resistance, do not use any product in two successive generations. | | | | | | |
| 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 - 741 mL | 201 - 300 mL | 12 h | 28 | Add 0.25 - 1% spray oil/ spray mixture. Also controls leafroller and mites. Do not exceed 1.0 L/ha 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: 7 to 10 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. |
| Obliquebanded and Threelined Leafrollers | Chlorantraniliprole (Altacor MaX) 34654 | 28 | 73 - 143 g | 30 - 58 g | 12 h | 5 | Apply when larvae become active. Do not apply more than 3 times/ season. Spray interval: 10 to 14 days (see label). |
| | GS-omega/kappa-Htx-Hv1a (Spear Lep) 34678 | 32 | 1.2 - 2.3 L | 486 - 931 mL | 4 h | 0 | Tank mix with the low labelled rate of a Bacillus thuringiensis (Bt) product registered on the same crop for control of caterpillars such as Bioprotec, Dipel or Foray. Use a spreader/sticker or non-ionic surfactant (0.125%) to enhance the adhesion of Spear Lep. |
| | tetraniliprole (Vayego 200 SC) | 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. |

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| Stage of Development: Summer | | | | | | | |
|--|--|------------------|----------------------|----------------------|------------------|-------------------------|---|
| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
| | 33711 | | | | | | |
| | abamectin + cyantraniliprole (Minecto Pro) 33023 | 6 + 28 | 496 - 741 mL | 201 - 300 mL | 12 h | 28 | Add 0.25 - 1% spray oil/spray mixture. Also controls pear psylla and mites. Do not exceed 1.0 L/ha 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 control the same pests. |
| | 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 | Monitor adult moth flight and apply at first egg hatch. 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: 7 to 10 days. |
| | spinetoram (Delegate) 28778 | 5 | 210-420 g | 85-170 g | 12 h | 7 | Do not apply more than 3 times/season. Use 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 | 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. |
| | tebufenozide (Confirm) 24503 | 18 | 1 L | 405 mL | dry - 12 h | 14 | Will also control bud moth. Do not apply more than 4 times/season. Spray interval: 10 to 14 days. |
| | pheromone (Isomate CM/LR TT) 28814 | NC | 750 disp. | 300 disp. | n/a | 0 | Apply before first moth flight. |
| Notes: Confirm, Delegate, Success, Altacor and Exirel are stomach poisons so complete coverage is important for satisfactory control. These products will also control any bud moth larvae present. | | | | | | | |
| Apple Aphid | 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. |

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| Stage of Development: Summer | | | | | | | |
|------------------------------|---|------------------|-------------------------|------------------------|------------------|-------------------------|---|
| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
| | 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 Flint, Pristine, Sovran, copper or captan fungicides. Toxic to bees. Spray interval: 10 to 14 days. |
| | flonicamid (Beleaf) 29796 | 29 | 120-160 g | 49-65 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. |
| Woolly Apple Aphid | 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. |
| Stink Bugs | fenpropathrin (Danitol) 33817 | 3 | 779 - 1559 ml | 315 - 631 ml | 24 h - 23 days | 16 days | Toxic to bees. Do not apply during bloom. REI/PHI's: 23 days (thinning), 16 days (hand harvesting), 7 days (scouting, hand pruning), 14 days (mechanical harvesting), 24 hours (all other activities). Pests controlled: exclude Brown marmorated stink bug |
| | Notes: There are no registered products. Contact field advisor. Products registered for brown marmorated stink bugs (Actara and Clutch) will provide some control. Check product labels. | | | | | | |
| San Jose Scale | flupyradifurone (Sivanto Prime) 31452 | 4D | 750-1000 mL + 0.25% oil | 304-405 mL + 0.25% oil | 12h | 14 | Addition of 0.25% oil may cause fruit injury to certain varieties of pears such as Anjou. Observe precautions on oil labels before using. Minimum interval between applications: 10 days. Maximum amount per season: 2000 mL/ha (810 mL/acre). |
| | sulfoxaflor (Closer) 30826 | 4C | 200-400 mL | 80-160 mL | 12 h | 7 | Do not apply more than 2 times per season. Spray interval: minimum 7 days. |
| Mealybugs | spirotetramat (Moverto 240 SC) 28953 | 23 | 365-585 mL | 148-237 mL | 12 h | | Maximum interval between applications: 14 days. Do not apply more than 1.83 L/ha (729 mL/acre) pr season. DO NOT use on pear trees when fruit is present due to the possibility of adverse effects on the fruit. |
| Fire Blight | Notes: There are no products that can be applied to cure fire blight following infection. Preventative copper sprays may help to protect against new infections. Scout susceptible orchards for symptoms and prune out infected shoots, being careful to disinfect tools between cuts. See fire blight section for more information on cultural methods. | | | | | | |

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| Stage of Development: Post-Harvest | | | | | | | |
|------------------------------------|----------------------------------|------------------|---------------|-----------------|------------------|-------------------------|---|
| Insect or Disease | Recommended Product Choices | Grp ¹ | Amount Per Ha | Amount Per Acre | REI ² | PHI ³ (days) | Precautions and Notes |
| Fire Blight | Copper hydroxide (Parasol) 25901 | M1 | 4.7 L | 1.9 L | 48 hrs | 2 days | Apply after harvest with 50% leaf drop. Max. two applications per year. |

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

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