

[17.4] Persons not covered by the Worker Protection Standard (WPS), such as members of the general public involved in “pick-your-own”, “U-Pick” or similar operations, cannot enter a treated area for 14 days after application of Imidan.

Stink Bugs (including Brown Marmorated Stink Bug)

• Biology & Cultural

[18.1] A number of native stink bug species (Brown, Dusky and Green Stink Bugs) can sometimes cause fruit damage in all tree fruits under conditions that are not fully understood. Adult feeding during bloom and shuck split can cause the fruit to abort, and feeding later in the summer can cause a deep catfacing injury such as that caused by tarnished plant bug, or depressed, dimpled, corky or water-soaked areas on the skin. All tree fruits are attacked, especially peaches and apples. Other species of stink bugs are predators. Elimination of alternate host broadleaf weeds, especially legumes, in the orchard will contribute to management efforts. If control is needed, insecticides should be timed to kill immigrating adults as they appear in the orchards to prevent feeding damage and subsequent mating and egg laying.

The brown marmorated stink bug is an invasive species from Asia that was first documented in Allentown, PA in 2001. It has caused extensive damage to apple and peach crops in the Mid-Atlantic states in recent years. It has a wide host range and is more likely to reproduce in orchards as compared to native stink bugs. This insect has spread across a number of eastern US States, and now extends to the west coast as well. It was first documented in Connecticut in 2008. Although it can be found throughout Connecticut and other New England states in and around

structures, extensive monitoring efforts in Connecticut in 2011 resulted in very few detections in agricultural crops; however, reports of sightings have been increasing. Refer to the reference materials list (17.4) at the end of this publication for fact sheets containing details on the biology and management of brown marmorated stink bug.

• Pesticide Application Notes

[18.2] Apply at first signs of infestation; BMSB are very mobile pests, and may reinfest the treated area quickly. If repeated applications are necessary, rotate active ingredients to avoid promoting resistance in local populations. *Danitol has a FIFRA Section 2(ee) registration for BMSB; the labeling must be in the possession of the user at the time of pesticide application. For best effectiveness and insecticide resistance management, the use of pre-mixes such as *Endigo, *Leverage and *Voliam Flexi should be reserved for those situations when the pest complex to be treated is appropriately matched to the combination of active ingredients and modes of action contained in the product.

Storage Rots

• Pesticide Application Notes

[19.1] A postharvest treatment with Scholar SC via flooders, T-jet, or similar system for control of storage rots is recommended for fruit coming from orchards where sporulating brown rot was observed, or when one hopes keep fruit in cold storage for a few days prior to sale. Holding tanks in postharvest treatment equipment must have excellent agitation to keep fungicides in suspension. Solutions must be replenished regularly as directed on the product label. Never expose treated fruit to direct sunlight. This will cause the fungicide to break down.

13.3. Cherry Spray Table

Table 13.3.1. Pesticide Spray Table – Cherries

Refer to back of book for key to abbreviations and footnotes.

| Pest | Product | Amt/100 gal | Amt/A | REI (hrs) | PHI (days) | Comments (see text) |
|---|---------------------------|-------------------------------|--------------|-----------|------------|---------------------|
| Late Dormant | | | | | | |
| Bacterial canker | Kocide 3000 | | 3.5-7.0 lb/A | 48 | BL, PH | [1.1] |
| | OR Cuprofix Disperss 40DF | | 5.0-8.0 lb/A | 48 | BL, PH | |
| <i>Pseudomonas syringae</i> | or other (\$)coppers | see comments | | | | |
| Phytophthora root, crown and collar rots | Ridomil Gold SL 4EC | 1.5 fl oz/1,000 sq ft treated | 2.0 qt/A | 48 | 0 | [5.2] |
| Bud Burst | | | | | | |
| European red mite, Scale insects | (\$)oil | 2 gal/100 gal | | 12 | 0 | [11.1], [16.1] |

Table 13.3.1. Pesticide Spray Table – Cherries

Refer to back of book for key to abbreviations and footnotes.

| Pest | Product | Amt/100 gal | Amt/A | REI (hrs) | PHI (days) | Comments (see text) |
|---|--------------------------------------|---|---------------------|------------------|------------|---------------------|
| White Bud | | | | | | |
| Brown rot (blossom blight) | Adament 50 WG | | 4.0-8.0 oz/A | 12 | 1 | [3.1], [3.2] |
| | OR Bravo WeatherStik | 1.0-1.4 pt/100 gal | 3.1-4.1 pt/A | 12 hr/7 days (E) | SS | |
| | | or other chlorothalonil formulations (see labels) | | | | |
| | OR Captan 50WP | 2 lb/100 gal | 4 lb/A | 24 | 0 | |
| | OR Echo 720 6F | 1.1-1.4 pt/100 gal | 3.1-4.1 pt/A | 12 hr/7 days(E) | SS | |
| | | or Echo 90DF | 0.75-1.2 lb/100 gal | 2.25-3.5 lb/A | | |
| | OR Elevate 50WDG | | 1.5 lb/A | 12 | 0 | |
| | OR Indar 2F | | 6.0 fl oz/A | 12 | 0 | [3.4] |
| | OR Pristine 38WDG | | 10.5-14.5 oz/A | 12 | 0 | |
| | OR Quash 50 WDG | | 2.5-3.5 oz/A | 12 | 14 | |
| | OR Rally 40 WSP | | 2.5-6.0 oz/A | 24 | 0 | |
| | OR Rovral 4F | | 1.0-2.0 pt/A | 24 | PF | |
| | OR Sulfur 92WP | 5-10 lb/100 gal | | 24 | 0 | |
| | OR §Microthiol Disperss | 10-20 lb/100 gal | | 24 | 0 | |
| | OR Tebuzol 45DF | 2.0 oz/100 gal | 4.0-8.0 oz/A | 120 | 0 | |
| OR Tilt 3.6EC | | 4.0 fl oz/A | 12 | 0 | | |
| Black cherry aphid | Asana XL 0.66 EC | 2.0-5.8 fl oz/100 gal | 4.8-14.5 fl oz/A | 12 | 14 | |
| | OR Assail 30 SG | | 2.5-5.3 oz/A | 12 | 7 | |
| | OR §Aza-Direct 1.2L | | 1.0-2.0 pt/A | 4 | 0 | |
| | OR Azatin XL | | 10-16 fl oz/A | 4 | 0 | |
| | OR *Baythroid XL 1EC | | 2.4-2.8 fl oz/A | 12 | 7 | |
| | OR Beleaf 50 SG | | 2.0-2.8 oz/A | 12 | 14 | |
| | OR Malathion 57EC | | 1.5 pt/A | 12 | 3 | |
| | OR §M-Pede 49L | 2 gal/100 gal | | 12 | 0 | [9.1] |
| | OR Movento | | 6.0-9.0 fl oz/A | 24 | 7 | [9.1] |
| | OR *Proaxis 0.5 CS | | 2.6-5.1 fl oz/A | 24 | 14 | |
| OR *Warrior II | | 1.3-2.6 fl oz/A | 24 | 14 | | |
| The following pre-mix product is also labeled for use against this pest; however, for best effectiveness and insecticide resistance management, its use should be reserved for situations when multiple pest species are present and appropriately matched to the combination of active ingredients and modes of action contained in the product. | | | | | | |
| | OR *Voliam Xpress | | 6-12 fl oz/A | 24 | 14 | |
| Bloom | | | | | | |
| Black knot | Bravo Ultrex 82.5WDG | 0.9-1.25 lb/100 gal | 2.8-3.8 lb/A | 12 hr/7 days (E) | SS | [2.1], [2.2] |
| | or Bravo Weather Stik 6F | 1.0-1.4 pt/100 gal | 3.1-4.1 pt/A | | | |
| Brown rot (blossom blight) | See materials listed under White Bud | | | | | [3.1], [3.4], [3.5] |
| Petal Fall | | | | | | |
| Black knot | See recommendations under Bloom | | | | | [2.1], [2.2] |
| Brown rot | See recommendations under White Bud | | | | | [3.4], [3.6] |

Table 13.3.1. Pesticide Spray Table – Cherries

Refer to back of book for key to abbreviations and footnotes.

| Pest | Product | Amt/100 gal | Amt/A | REI (hrs) | PHI (days) | Comments (see text) |
|---|---|---|-------------------------------|------------------|------------|---------------------|
| Petal Fall (continued) | | | | | | |
| Leafspot | Adament 50 WG | | 4.0-8.0 oz/A | 12 | 1 | |
| | OR Bravo Ultrex 82.5WDG | 0.9-1.25 lb/100 gal | 2.8-3.8 lb/A | 12 hr/7 days(E) | SS, PH | [4.1] |
| | or Bravo Weather Stik 6F or other chlorothalonil formulations (see labels) | 1.0-1.4 pt/100 gal | 3.1-4.1 pt/A | | | |
| | OR Captan 50WP | 1-2 lb/100 gal | 4 lb/A | 24 | 0 | |
| | OR Echo 720 6F or Echo 90DF | 1.0-1.4 pt/100 gal 0.75-1.2 lb/100 gal | 3.1-4.1 pt/A 2.25-3.5 lb/A | 12 hr/7 days (E) | SS | |
| | OR Gem 500SC | | 1.9-3.8 oz/A | 12 | 1 | |
| | OR Indar 2F | | 6.0 fl oz/A | 12 | 0 | |
| | OR Pristine 38WDG | | 10.5-14.5 oz/A | 12 | 0 | |
| | OR Quash | | 4 oz/A | 12 | 14 | |
| | OR Rally 40 WSP | | 2.5-6.0 oz/A | 24 | 0 | |
| | OR Vintage 1EC | 3.0-4.0 fl oz/100 gal | 6.0-12.0 fl oz/A | 24 | 0 | |
| | OR Sulfur 92WP | 5-10 lb/100 gal | | 24 | 0 | |
| | OR §Microthiol Disperss | 10-20 lb/100 gal | | 24 | 0 | |
| | OR Syllit FL | | 1.5-3.0 pt/A | 48 | 7 | |
| | OR Tebuzol 45DF | 2.0 oz/100 gal | 4.0-8.0 oz/A | 120 | 0/PH | |
| OR Tilt 3.6EC | | 4.0 fl oz/A | 12 | 0 | | |
| American plum borer, | Asana XL 0.66 EC | 2.0-5.8 fl oz/100 gal | 4.8-14.5 fl oz/A | 12 | 14 | [8.1] |
| Lesser Peachtree borer | OR *Baythroid XL 1EC | | 2.4-2.8 fl oz/A | 12 | 7 | |
| | OR *Lorsban 4EC | 1.5-3 qt/100 gal | | 96 | 21 | |
| | or Lorsban 75WG | 2.0-4.0 lb/100 gal | | 96 | 21 | |
| | or *Lorsban Advanced 3.8EC | 1.5-3 qt/100 gal | | 96 | 21 | |
| | OR *Pounce 25WP | | 6.4-12.8 oz/A | 12 | 3 | |
| | OR *Proaxis 0.5CS | | 2.6-5.1 fl oz/A | 24 | 14 | |
| | OR *Warrior II | | 1.3-2.6 fl oz/A | 24 | 14 | |
| | OR (§)Pheromone disruption ties: Isomate PTB-Dual | | 150 ties/A | | | [13.1] |
| The following pre-mix product is also labeled for use against this pest; however, for best effectiveness and insecticide resistance management, its use should be reserved for situations when multiple pest species are present and appropriately matched to the combination of active ingredients and modes of action contained in the product. | | | | | | |
| | OR *Voliam Xpress | | 6-12 fl oz/A | 24 | 14 | [8.1] |
| Black cherry aphid | (See comment 9.2) | | | | | [9.2] |
| Plum curculio | Actara | | 4.5-5.5 oz/A | 12 | 14 | [15.1], |
| | OR *Asana XL 0.66EC | 2-5.8 fl oz/100 gal | 4.8-14.5 fl oz/A | 12 | 14 | [15.3] |
| | OR Avaunt 30 WDG | | 5.0-6.0 oz/A | 12 | 14 | |
| | OR *Baythroid XL 1EC | | 2.4-2.8 fl oz/A | 12 | 7 | |
| | OR *Guthion 50WS | 0.5 lb/100 gal | 1.5 lb/A | 15 days(E) | 15 | [15.4] |

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| Pest | Product | Amt/100 gal | Amt/A | REI (hrs) | PHI (days) | Comments (see text) |
|---|--|---|---|------------------------------|----------------------|---------------------|
| Petal Fall (continued) | | | | | | |
| Plum curculio (continued) | OR Imidan 70WP | 0.75 lb/100 gal | 2.1-2.5 lb/A | 72 | 7(C) | [15.1], [15.5] |
| | OR *Pounce 25WP | | 6.4-12.8 oz/A | 12 | 3 | |
| | OR *Proaxis 0.5CS | | 2.6-5.1 fl oz/A | 24 | 14 | |
| | OR Sevin XLR Plus, 4F | | 2.0-3.0 qt/A | 12 | 3 | |
| | OR §Surround 95WP | | 25-50 lb/A | 4 | 0 | [15.2] |
| | OR *Warrior II | | 1.3-2.6 fl oz/A | 24 | 14 | |
| The following pre-mix products are also labeled for use against this pest; however, for best effectiveness and insecticide resistance management, their use should be reserved for situations when multiple pest species are present and appropriately matched to the combination of active ingredients and modes of action contained in the product. | | | | | | |
| | OR *Leverage 360 | | 2.4-2.8 fl oz/A | 12 | 7 | [15.3] |
| | OR *Voliam Xpress | | 6-12 fl oz/A | 24 | 14 | [15.3] |
| Shuck Split | | | | | | |
| Brown rot, | Adament 50WG | | 4.0-8.0 oz/A | 12 | 1 | |
| Leaf spot | OR Bravo WeatherStik 6F or other chlorothalonil formulations (see labels) | 1.0-1.4 pt/100 gal | 3.1-4.1 pt/A | 12 hr/ 7days(E) | SS | [3.2], [3.7] |
| | OR Cabrio | | 9.5 oz/A | 12 | 0 | |
| | OR Captan 50WP | 2 lb/100 gal | 4 lb/A | 24 | 0 | |
| | OR Echo 720 6F or Echo 90DF | 1.1-1.4 pt/100 gal 0.75-1.2 lb/100 gal | 3.1-4.1 pt/A 2.25-3.5 lb/A | 12 hr/ 7 days(E) | SS | |
| | OR Ferbam Granuflo 76WDG | 1.5 lb/100 gal | 4.5 lb/A | 24 | 0 | |
| | OR Gem 500SC | | 1.9-3.8 oz/A | 12 | 1 | |
| | OR Indar 2F | | 6.0 fl oz/A | 12 | 0 | |
| | OR Pristine | | 10.5-14.5 oz/A | 12 | 0 | |
| | OR Quash 50WDG | | 2.5-4.0 oz/A | 12 | 14 | |
| | OR Rally 40 WSP | | 2.5-6.0 oz/A | 24 | 0 | |
| | OR Tebuzol 45DF | 2.0 oz/100 gal | 4.0-8.0 oz/A | 120 | 0/PH | |
| | Black knot | Bravo Ultrex 82.5WDG or Bravo Weather Stik 6F or other chlorothalonil formulations (see labels) | 0.9-1.25 lb/100 gal 1.0-1.4 pt/100 gal | 2.8-3.8 lb/A 3.1-4.1 pt/A | 12 hr/ 7 days (E) | SS |
| Black cherry aphid | Admire Pro | | 1.4-2.8 fl oz/A | 12 | 7 | [9.1] |
| | OR Asana XL 0.66 EC | 2.0-5.8 fl oz/100 gal | 4.8-14.5 fl oz/A | 12 | 14 | [9.1] |
| | OR Assail 30 SG | | 2.5-5.3 oz/A | 12 | 7 | |
| | OR §Aza-Direct 1.2L | | 1.0-2.0 pt/A | 4 | 0 | |
| | OR Azatin XL | | 10-16 fl oz/A | 4 | 0 | |
| | OR *Baythroid XL 1EC | | 2.4-2.8 fl oz/A | 12 | 7 | |
| | OR Beleaf 50 SG | | 2.0-2.8 oz/A | 12 | 14 | |
| | OR Malathion 57EC | | 1.5 pt/A | 12 | 3 | |
| | OR §M-Pede 49L | 2 gal/100 gal | | 12 | 0 | |
| | OR Movento | | 6.0-9.0 fl oz/A | 24 | 7 | |
| | OR *Proaxis 0.5CS | | 2.6-5.1 fl oz/A | 24 | 14 | |
| OR Provado 1.6F | | 4.0-8.0 fl oz/A | 12 | 7 | | |

Table 13.3.1. Pesticide Spray Table – Cherries

Refer to back of book for key to abbreviations and footnotes.

| Pest | Product | Amt/100 gal | Amt/A | REI (hrs) | PHI (days) | Comments (see text) |
|---|--|-----------------------|------------------|-----------|------------|---------------------|
| Shuck Split (continued) | | | | | | |
| Black cherry aphid (continued) | OR Sevin XLR Plus, 4F | | 2.0-3.0 qt/A | 12 | 3 | |
| | OR *Warrior II | | 1.3-2.6 fl oz/A | 24 | 14 | |
| The following pre-mix products are also labeled for use against this pest; however, for best effectiveness and insecticide resistance management, their use should be reserved for situations when multiple pest species are present and appropriately matched to the combination of active ingredients and modes of action contained in the product. | | | | | | |
| | OR *Endigo ZC | | 5-5.5 fl oz/A | 24 | 14 | |
| | OR *Leverage 360 | | 2.4-2.8 fl oz/A | 12 | 7 | |
| | OR *Voliam Xpress | | 6-12 fl oz/A | 24 | 14 | |
| Plum curculio | See materials under Petal Fall | | | | | [15.1] |
| Additional Summer Sprays | | | | | | |
| Brown rot | Adament 50WG | | 4.0-8.0 oz/A | 12 | 1 | |
| | OR Captan 50WP | 2 lb/100 gal | 4 lb/A | 24 | 0 | [3.8] |
| | OR Cabrio | | 9.5 oz/A | 12 | 0 | |
| | OR Ferbam Granuflo 76WDG | 1.5 lb/100 gal | 4.5 lb/A | 24 | 0 | |
| | OR Elevate 50WDG | | 1.5 lb/A | 12 | 0 | |
| | OR Indar 2F | | 6.0 fl oz/A | 12 | 0 | |
| | OR Pristine 38WDG | | 10.5-14.5 oz/A | 12 | 0 | |
| | OR Quash 50 WDG | | 2.5-3.5 oz/A | 12 | 14 | |
| | OR Rally 40 WSP | | 2.5-6.0 oz/A | 24 | 0 | |
| | OR Tebuzol 45DF | 2.0 oz/100 gal | 4.0-8.0 oz/A | 120 | 0 | |
| OR Tilt 3.6EC | | 4.0 fl oz/A | 12 | 0 | | |
| Leaf spot | Choose from materials listed at Petal Fall except for Bravo or other chlorothalonil products which can't be used after shuck split | | | | | [4.2] |
| Powdery mildew | Adament 50 WG | | 4.0-8.0 oz/A | 12 | 1 | [6.1] |
| | OR Cabrio | | 9.5 oz/A | 12 | 0 | |
| | OR Gem 500SC | | 1.9-3.8 oz/A | 12 | 1 | |
| | OR Rally 40 WSP | | 2.5-6.0 oz/A | 24 | 0 | |
| | OR Sulfur 92WP | 5-10 lb/100 gal | | 12 | 0 | |
| | OR §Microthiol Disperss | 10-20 lb/100 gal | | 24 | 0 | |
| | OR *Procure 50W | | 8.0-16.0 oz/A | 12 | 1 | |
| | OR Pristine 38WDG | | 10.5-14.5 oz/A | 12 | 0 | |
| | OR Quash 50 WDG | | 2.5-4.0 oz/A | 12 | 14 | |
| | OR Quintec 2.08 EC | | 7 fl oz/A | 12 | 7 | |
| | OR Tilt 3.6EC | | 4.0 fl oz/A | 12 | 0 | |
| | OR Vintage 1EC | 3.0-4.0 fl oz/100 gal | 6.0-12.0 fl oz/A | 24 | 0 | |
| American plum borer | OR Asana XL 0.66 EC | 2.0-5.8 fl oz/100 gal | 4.8-14.5 fl oz/A | 12 | 14 | [8.1] |
| | OR *Baythroid XL 1EC | | 2.4-2.8 fl oz/A | 12 | 7 | |
| | OR *Lorsban 4EC | 1.5-3 qt/100 gal | | 96 | 21 | |
| | or *Lorsban Advanced | 1.5-3 qt/100 gal | | 96 | 21 | |
| | or Lorsban 75WG | 2.0-4.0 lb/100 gal | | 96 | 21 | |
| OR *Proaxis 0.5CS | | 2.6-5.1 fl oz/A | | 24 | 14 | |

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Refer to back of book for key to abbreviations and footnotes.

| Pest | Product | Amt/100 gal | Amt/A | REI (hrs) | PHI (days) | Comments (see text) |
|---|-----------------------|---------------------|-------------------|-------------|------------|---------------------|
| Additional Summer Sprays (continued) | | | | | | |
| American plum borer (continued) | OR *Warrior II | | 1.3-2.6 fl oz/A | 24 | 14 | |
| The following pre-mix products are also labeled for use against this pest; however, for best effectiveness and insecticide resistance management, their use should be reserved for situations when multiple pest species are present and appropriately matched to the combination of active ingredients and modes of action contained in the product. | | | | | | |
| | OR *Endigo ZC | | 5-5.5 fl oz/A | 24 | 14 | |
| | OR *Leverage 360 | | 2.4-2.8 fl oz/A | 12 | 7 | |
| | OR *Voliam Xpress | | 6-12 fl oz/A | 24 | 14 | |
| Black cherry fruit fly | Actara 25WDG | | 4.5-5.5 oz/A | 12 | 14 | [10.1] |
| | OR Admire Pro | | 1.4-2.8 fl oz/A | 12 | 7 | |
| Cherry fruit fly | OR *Asana XL 0.66EC | 2-5.8 fl oz/100 gal | 4.8-14.5 fl oz/A | 12 | 14 | [10.1] |
| | OR Assail 30 SG | | 5.3-8.0 oz/A | 12 | 7 | |
| | OR *Baythroid XL 1EC | | 2.4-2.8 fl oz/A | 12 | 7 | |
| | OR Delegate 25 WG | | 4.5-7.0 oz/A | 4 | 7 | |
| | OR *Diazinon 50WP | 0.5-1 lb/100 gal | | 96 | 21 | |
| | OR *Guthion 50WS | 0.5 lb/100 gal | 1.5 lb/A | 15 days (E) | 15 | [15.4] |
| | OR Imidan 70WP | 0.75 lb/100 gal | 2.1-2.5 lb/A | 72 | 7(c) | [10.3],[15.5] |
| | OR *Proaxis 0.5CS | | 2.6-5.1 fl oz/A | 24 | 14 | |
| | OR Sevin XLR Plus, 4F | | 2.0-3.0 qt/A | 12 | 3 | |
| | OR §Surround 95WP | | 25-50 lb/A | 4 | 0 | [10.2] |
| | OR *Warrior II | | 1.3-2.6 fl oz/A | 24 | 14 | |
| The following pre-mix products are also labeled for use against this pest; however, for best effectiveness and insecticide resistance management, their use should be reserved for situations when multiple pest species are present and appropriately matched to the combination of active ingredients and modes of action contained in the product. | | | | | | |
| | OR *Endigo ZC | | 5-5.5 fl oz/A | 24 | 14 | |
| | OR *Leverage 360 | | 2.4-2.8 fl oz/A | 12 | 7 | |
| | OR *Voliam Xpress | | 6-12 fl oz/A | 24 | 14 | |
| European red mite, Twospotted spider mite | Apollo 4SC | | 2.0-8.0 oz/A | 12 | 21 | [11.4] |
| | OR Envior 2 SC | | 16.0-18.0 fl oz/A | 12 | 7 | |
| | OR Nexter 75 WS | | 4.4-10.7 oz/A | 12 | 300(PH) | [11.3] |
| | OR Onager 1 EC | | 12-24 oz/A | 12 | 7 | |
| | OR Portal | | 2.0 pt/A | 12 | 365 | [11.5] |
| | OR Savey 50DF | | 3.0-6.0 oz/A | 12 | 28 | [11.4] |
| | OR *Vendex 50WP | | 1.5-3.0 lb/A | 48 | 14 | [11.2] |
| | OR Zeal 72 WS | | 2.0-3.0 oz/A | 12 | 7 | |
| Japanese beetle | Admire Pro | | 1.4-2.8 fl oz/A | 12 | 7 | [12.2] |
| | OR Assail 30 SG | | 5.3-8.0 oz/A | 12 | 7 | [12.2] |
| | OR Provado 1.6 F | | 4.0-8.0 fl oz/A | 12 | 7 | |
| | OR Sevin XLR Plus, 4F | | 2.0-3.0 qt/A | 12 | 3 | |

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Refer to back of book for key to abbreviations and footnotes.

| Pest | Product | Amt/100 gal | Amt/A | REI (hrs) | PHI (days) | Comments (see text) |
|---|---|-----------------------|-------------------|-----------|------------|---------------------|
| Additional Summer Sprays (continued) | | | | | | |
| Japanese beetle (continued) | | | | | | |
| The following pre-mix products are also labeled for use against this pest; however, for best effectiveness and insecticide resistance management, their use should be reserved for situations when multiple pest species are present and appropriately matched to the combination of active ingredients and modes of action contained in the product. | | | | | | |
| | OR *Endigo ZC | | 5-5.5 fl oz/A | 24 | 14 | |
| | OR *Leverage 360 | | 2.4-2.8 fl oz/A | 12 | 7 | |
| | OR *Voliam Xpress | | 6-12 fl oz/A | 24 | 14 | |
| Lecanium scale, San Jose scale | *Centaur 0.7WDG | | 34.5-46.0 oz/A | 12 | 14 | [16.2] |
| | OR Esteem 35 WP | | 4.0-5.0 oz/A | 12 | 14 | |
| | OR Movento 240 SC | | 6.0-9.0 fl oz/A | 24 | 7 | |
| Lesser peachtree borer | (§)Pheromone disruption ties: Isomate PTB-Dual | | 150 ties/A | | | [13.1] |
| | OR *Asana XL 0.66EC | 2.0-5.8 fl oz/100 gal | 4.8-14.5 fl oz/A | 12 | 14 | [13.2] |
| | OR *Lorsban 4EC | 1.5-3 qt/100 gal | | 96 | 21 | |
| | or *Lorsban Advanced | 1.5-3 qt/100 gal | | 96 | 21 | |
| | or Lorsban 75WG | 2.0-4.0 lb/100 gal | | 96 | 21 | |
| | OR *Pounce 25WP | | 6.4-12.8 oz/A | 12 | 3 | |
| | OR *Proaxis 0.5CS | | 2.6-5.1 fl oz/A | 24 | 14 | |
| | OR *Warrior II | | 1.3-2.6 fl oz/A | 24 | 14 | |
| The following pre-mix products are also labeled for use against this pest; however, for best effectiveness and insecticide resistance management, their use should be reserved for situations when multiple pest species are present and appropriately matched to the combination of active ingredients and modes of action contained in the product. | | | | | | |
| | OR *Endigo ZC | | 5-5.5 fl oz/A | 24 | 14 | |
| | OR *Voliam Xpress | | 6-12 fl oz/A | 24 | 14 | |
| Obliquebanded leafroller | Altacor 35 WDG | | 3.0-4.5 oz/A | 4 | 10 | [14.1] |
| | OR *Baythroid XL 1EC | | 2.4-2.8 fl oz/A | 12 | 7 | |
| | OR Belt SC | | 3.0-4.0 fl oz/A | 12 | 7 | |
| | OR §Biobit HP | | 0.5-2.0 lb/A | 4 | 0 | |
| | OR *Danitol 2.4EC | | 10.7-21.3 fl oz/A | 24 | 3 | |
| | OR Delegate 25 WG | | 4.5-7.0 oz/A | 4 | 7 | |
| | OR §Deliver 18WG | | 0.5-2.0 lb/A | 4 | 0 | |
| | OR §Entrust 80WP | | 1.25-2.5 oz/A | 4 | 7 | |
| | OR §Javelin WG | | 0.25-4.0 lb/A | 4 | 0 | |
| The following pre-mix products are also labeled for use against this pest; however, for best effectiveness and insecticide resistance management, their use should be reserved for situations when multiple pest species are present and appropriately matched to the combination of active ingredients and modes of action contained in the product. | | | | | | |
| | OR *Endigo ZC | | 5-5.5 fl oz/A | 24 | 14 | |
| | OR *Leverage 360 | | 2.4-2.8 fl oz/A | 12 | 7 | |
| | OR *Voliam Xpress | | 6-12 fl oz/A | 24 | 14 | |
| Spotted wing Drosophila | Delegate 25WG | | 4.5-7 oz/A | 4 | 7 | [17.3] |
| | OR §Entrust 80WP | | 1.25-2.5 oz/A | 4 | 7 | [17.3] |
| | OR Imidan 70WS | 0.75 lb/100 gal | 2.13 lb/A | 72 | 7(C) | [17.4] |
| | OR *Lambda-Cy 1EC | | 5.12 fl oz/A | 24 | 14 | |

Table 13.3.1. Pesticide Spray Table – Cherries

Refer to back of book for key to abbreviations and footnotes.

| Pest | Product | Amt/100 gal | Amt/A | REI (hrs) | PHI (days) | Comments (see text) | |
|---|---|---|--------------------------------|---------------------|------------|---------------------|-------|
| Additional Summer Sprays (continued) | | | | | | | |
| Stink bugs, including Brown marmorated stink bug | *Actara 25WDG | | 4.5-5.5 oz/A | 12 | 14 | [18.2] | |
| | OR Assail 30SG | | 5.3-8.0 oz/A | 12 | 7 | | |
| | OR *Baythroid XL 1EC | | 2-2.4 fl oz/A | 12 | 7 | | |
| | OR *Danitol 2.4EC | | 10.7-21.3 fl oz/A | 24 | 3 | [18.2] | |
| | OR *Warrior IICS | | 1.28-2.56 fl oz/A | 24 | 14 | | |
| The following pre-mix products are also labeled for use against this pest; however, for best effectiveness and insecticide resistance management, their use should be reserved for situations when multiple pest species are present and appropriately matched to the combination of active ingredients and modes of action contained in the product. | | | | | | | |
| | OR *Endigo ZC | | 5-5.5 fl oz/A | 24 | 14 | | |
| | OR *Leverage 360 | | 2.4-2.8 fl oz/A | 12 | 7 | | |
| | OR *Voliam Flexi | | 6-7 fl oz/A | 12 | 14 | | |
| Postharvest | | | | | | | |
| Leaf spot | Bravo Ultrex 82.5 WDG or Bravo Weather Stik 6F | 0.9-1.25 lb/100 gal 1.0-1.4 pt/100 gal | 2.8-3.8 lb/A 3.1-4.1 pt/A | 12 hr/ 7days (E) | SS,PH | | |
| | OR Captan 50WP | 2 lb/100 gal | 4 lb/A | 24 | 0 | | |
| | OR C-O-C-S WDG <i>plus</i> hydrated lime | 1.5 lb/100 gal 3 lb/100 gal | | 24 | PH(C) | [4.4] | |
| | OR Echo 720 6F or Echo 90DF | 1.0-1.4 pt/100 gal 0.75-1.2 lb/100 gal | 3.1-4.1 pt/A 2.25-3.5 lb/A | 12 hr/7days (E) | SS, PH | | |
| | OR Rally 40WSP | | 2.5-6.0 oz/A | 24 | 0 | | |
| | OR Vintage 1EC | 3.0-4.0 fl oz/100 gal | 6.0-12.0 fl oz/A | 24 | 0 | | |
| | OR Syllit FL | | 1.5-3.0 pt/A | 48 | 7 | | |
| | OR Gem 500SC | | 1.9-3.8 oz/A | 12 | 1 | | |
| | OR Pristine 38WDG | | 10.5-14.5 oz/A | 12 | 0 | | |
| | Powdery mildew | C-O-C-S WDG <i>plus</i> hydrated lime | 1.5 lb/100 gal 3 lb/100 gal | | 24 | PF, PH(C) | [4.4] |
| | | OR Cabrio | | 9.5 oz/A | 12 | 0 | |
| OR Rally 40WSP | | | 2.5-6.0 oz/A | 24 | 0 | | |
| OR Vintage 1EC | | 3.0-4.0 fl oz/100 gal | 6.0-12.0 fl oz/A | 24 | 0 | | |
| OR Sulfur 92WP | | 5-10 lb/100 gal | | 12 | 0 | | |
| OR §Microthiol Disperss | | 10-20 lb/100 gal | | 24 | 0 | | |
| OR *Procure 50W | | | 8.0-16.0 oz/A | 12 | 1 | | |
| OR Gem 500SC | | | 1.9-3.8 oz/A | 12 | 1 | | |
| OR Pristine 38WDG | | | 10.5-14.5 oz/A | 12 | 0 | | |
| OR Quash 50 WDG | | | 2.5-4.0 oz/A | 12 | 14 | | |
| OR Quintec 2.08 EC | | | 7 fl oz/A | 12 | 7 | | |
| European red mite, Twospotted spider mite | Nexter 75WS | | 4.4-10.7 oz/A | 12 | 300 (PH) | | |

Table 13.3.1. Pesticide Spray Table – Cherries*Refer to back of book for key to abbreviations and footnotes.*

| Pest | Product | Amt/100 gal | Amt/A | REI (hrs) | PHI (days) | Comments (see text) |
|---|---------------------------------|---|---------------|-----------|------------|---------------------|
| Postharvest (continued) | | | | | | |
| Storage rots | Scholar SC | 16-32 fl oz/100 gal (see comments & label) | | | | [19.1] |
| Autumn | | | | | | |
| Bacterial canker (<i>Pseudomonas syringae</i>) | Kocide3000 | | 3.5-7.0 lb/A | 48 | BL, PH (C) | [1.2] |
| | or Kocide 2000 | | 6.0-12.0 lb/A | 48 | BL, PH (C) | |
| | or Cuprofix Ultra Disperss 40DF | | 5.0-8.0 lb/A | 48 | BL, PH | |
| | or other coppers | (see comments) | | | | |

Table 13.3.2. Growth Regulator Uses in Cherries*Refer to back of book for key to abbreviations and footnotes.*

| Timing | Product | Concentration | Product | Rate of Formulated |
|---|--------------------------------|-----------------|---------|-------------------------------|
| Promote Lateral Branching in Tart Cherry: (to counteract the adverse effects of tart cherry yellows virus on formation of vegetative buds) | | | | |
| 14-21 days after petal fall | §Pro-Gibb 4%, Falgro 4L | 10-15 ppm | | 4-6 fl oz/100 gal |
| | §Pro-Gibb Plus 2X, Falgro 20SP | 10-15 ppm | | 0.67-1 oz (lb)/100 gal |
| Apply at the 3-5 leaf stage or 1-3 inches of terminal extension on bearing trees. Apply with a nonionic surfactant as a dilute spray using 200-300 gal/acre. Use low rate on vigorous trees and high rate on low vigor trees. | | | | |
| Promote Vegetative Growth of Young Non-Bearing Trees | | | | |
| 2-4 weeks after bloom | §Pro-Gibb 4%, Falgro 4L | 50-100 ppm | | 20-40 fl oz/100 gal |
| | §Pro-Gibb Plus 2X, Falgro 20SP | 50-100 ppm | | 3.34-6.67 oz (lb)/100 gal |
| Apply at the 5-7 leaf stage. Reduces crop in year after treatment. Do not spray first year trees. For low vigor trees make two applications no closer than 7 days apart. | | | | |
| Induction of Lateral Branching in Nursery Trees | | | | |
| SWEET CHERRIES | | | | |
| When terminal shoot is 26-32" long | Promalin, Perlan, Typy | 250-1,000 ppm | | 0.5-2 qt/5 gal |
| Include a non-ionic surfactant and apply as a directed spray to top part of tree after trees have reached a terminal height at which lateral branching is desired. | | | | |
| Induction of Lateral Branching in Young Non-Bearing Trees | | | | |
| SWEET CHERRIES | | | | |
| Bud Swell | Promalin, Perlan, Typy | 5,000-7,500 ppm | | 3.2-5.3 fl oz/1pt latex paint |
| Mix with latex paint and paint on buds. Do not apply the Promalin-latex paint mixture after bud break which may cause some injury to tender shoot tips. The best results are obtained by scoring above the bud and then painting the cut and the bud with the Promalin-latex paint mixture. | | | | |
| Delay Harvest and Increase Firmness and Size of Sweet Cherries | | | | |
| Fruit is light green to straw color (about 3-4 weeks before harvest) | §Pro-Gibb 4%, Falgro 4L | 10-30 ppm | | 16-48 fl oz/acre |
| | §Pro-Gibb Plus 2X, Falgro 20SP | 10-30 ppm | | 80-240g/acre |
| | §Pro-Gibb 40% | 10-15ppm | | 40-120g/acre |
| High rates may delay fruit color development but give the maximum delay in harvest. Apply lower rates for less delay in ripening and less inhibition of color. Do not apply within 1 week of harvest. | | | | |

Table 13.3.2. Growth Regulator Uses in Cherries*Refer to back of book for key to abbreviations and footnotes.*

| Timing | Product | Concentration | Product | Rate of Formulated |
|---|----------------|----------------------|----------------|---------------------------|
| Promote Fruit Loosening for Mechanical Harvesting | | | | |
| TART CHERRIES | | | | |
| 7-14 days before anticipated harvest | Ethrel | 150 ppm | | 0.5 pt/100 gal |
| Apply with a nonionic surfactant. Do not apply to weak trees or trees under heat or moisture stress. | | | | |
| SWEET CHERRIES | | | | |
| 7-14 days before anticipated harvest | Ethrel | 300-450 ppm | | 1-1.5 pt/100 gal |
| Apply with a nonionic surfactant. Do not apply to weak trees or trees under heat or moisture stress. | | | | |
| * To convert ounces (lb) to grams multiply ounces by 28.3. To convert fluid ounces to milliliters multiply fluid ounces by 29.57. | | | | |