

COMMERCIAL CHRISTMAS TREE PRODUCTION INSECT CONTROL

Pesticide labels for commercial and homeowner products that are currently registered for use in Arkansas may be found through the Arkansas Department of Agriculture/State Plant Board website by clicking on the following link: <https://www.agriculture.arkansas.gov/plant-industries/pesticide-section/registration/>

| Insect or Mite | Insecticide and Formulations | Amount of Formulation Per Gallon of Spray | Amount Per 100 Gallons of Water | Minimum Interval (Hours) Between Application and Reentry | Precautions and Remarks |
|--|--|---|--|--|--|
| Adelgids (Balsam Woolly Adelgid, Cooley, Eastern Spruce Gall, Hemlock Woolly Adelgid) | bifenthrin 25% (Sniper) | | 3.9-12.8 oz/acre | 12 | Will also control twig aphids and spider mites but not rust mites. |
| | bifenthrin (OnyxPro) | | See label. | 12 | See label. |
| | chlorpyrifos (Lorsban 4E, Nufos 4E) | | 1 qt/acre | 24 | DO NOT treat plants under extreme heat or drought stress. Control is achieved only when eggs and crawlers are not present. |
| | dimethoate (Dimethoate 400) | | 1 to 1.5 pt/acre | 10 days | |
| | dinotefuran (Safari) | | 4-8 oz/100 gal | 12 | DO NOT apply more than 2.7 lb per acre. |
| | esfenvalerate (Asana XL) | | 5.8-9.6 oz/100 gal | 12 | Use full rate to control balsam woolly adelgid. |
| | imidacloprid (Pasada 1.6F, Provado 1.6 F) | | 4-8 oz/acre OR 2 oz/100 gal | 12 | Adding a spray adjuvant may improve coverage. DO NOT apply more than 40 oz/acre per year. |
| | lambda-cyhalothrin (Silencer,) | | 2.58-5.12 oz/acre | 24 | Maximum use 1.92 pt/acre per year. |
| | petroleum oil (Damoil) | | 2-4 gal/100 gal dormant use 1-3 gal/100 gal summer use | 4 | |
| | spirotetramat (Movento) | | 5-10 oz/acre | 24 | Maximum use 20 oz/acre per year. Use adjuvant to increase penetration. |
| Ants | thiamethoxam (Flagship 25WG) | | 4 to 8.5 oz/100 gal or 8 to 17 oz/acre | 12 | Maximum use 17 oz/acre/year. |
| | bifenthrin (OnyxPro) | | See label. | 12 | See label. |
| | carbaryl (Sevin SL) | | 1 qt/acre | 12 | |
| | chlorpyrifos (Lorsban 4E) | | 1 qt/acre | 24 | DO NOT treat plants under extreme heat or drought stress. |
| Aphids (including balsam twig aphid and cinara aphid) | insecticidal soap (M-Pede) | | 1 to 2 gal/100 gal | 12 | May cause foliage discoloration. |
| | abamectin (Avid 0.15 EC) | | 8 oz/100 gal | 12 | DO NOT apply more than 16 oz or less than 8 oz per acre. To suppress aphids, spray must contact young immatures. |
| | acephate (Orthene Tree, Turf, & Ornamental) 97% Spray WSP | | 1/4 to 1/2 lb. (4 to 8 oz) 1/3 to 2/3 lb (5 1/3 to 10 2/3 oz) | 24 | Apply the specified amount of ORTHENE Turf, Tree & Ornamental in 100 gals. of water with a hydraulic sprayer. The addition of a suitable sticker improves control. |
| | azadirachtin (Aza-Direct) | | 1-2 pt/acre | 4 | Under extremely heavy pest pressure, up to 3 1/2 pt may be used. |
| | <i>Beaveria bassiana</i> (Naturalis L) | 0.3-1.0 oz/gal | 30-100 oz/100 gal | 4 | Spray immediately after mixing. |
| | bifenthrin 25% (Sniper) | | 3.9-12.8 oz/acre | 12 | Will also control twig aphid and spider mites but not rust mites. |
| | bifenthrin (OnyxPro) | | See label. | 12 | See label. |
| | carbaryl (Sevin SL) | | 1 qt/acre | 12 | |
| | chlorpyrifos (Lorsban 4E, Nufos 4E) | | 1 qt/acre | 24 | DO NOT treat plants under extreme heat or drought stress. |
| | cinnamaldehyde (Cinnamate) | 0.85 oz/gal | 85 oz/100 gal | 4 | |
| | cyantraniliprole (Mainspring GNL) | | See label. | 4 | No more than 32 fl oz per acre per year. |
| | dimethoate (Dimethoate 400) | | 1.0-1.5 pt/acre | 10 days | |
| | esfenvalerate (Asana XL) | | 5.8-9.6 oz/100 gal | 12 | |

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| Aphids (cont.) (including balsam twig aphid and cinara aphid) | flupyradifurone (Sivanto Prime) | | 7 to 14 oz/acre | 4 | Not for use in bare-ground plantations. May also control balsam woolly adelgid. |
| | imidacloprid (Pasada 1.6F, Provado 1.6 F) | | 4-8 oz/acre OR 2 oz/100 gal | 12 | Adding a spray adjuvant may improve control. DO NOT apply more than 40 oz/acre per year. |
| | insecticidal soap (M-Pede) | | 1 to 2 gal/100 gal | 12 | May cause foliage discoloration. |
| | lambda-cyhalothrin (Silencer) (Warrior II) | | 2.58-5.12 oz/acre 1.28-2.56 oz/acre | 24 24 | Maximum use 1.92 pt/acre per year. |
| | mineral oil emulsion (TriTek) | | 1 to 2 gal/100 gal | 4 | Maintain agitation until solution is used. |
| | petroleum oil (Damoil) | | 2-4 gal/100 gal dormant use 1-3 gal/100 gal summer use | 4 | |
| | pymetrozine (Endeavor) | | up to 10 oz/acre | 12 | |
| | spirotetramat (Movento) | | 5-10 oz/acre | 24 | Maximum use 20 oz/acre per year. Use adjuvant to increase penetration. |
| | thiamethoxam (Flagship 25WG) | | 4 to 8.5 oz/100 gal or 8 to 17 oz/acre | 12 | Maximum use 17 oz/acre/year. |
| | | | | | |
| Bagworm | acephate (Orthene Tree, Turf, & Ornamental) 97% Spray WSP | | 1/4 to 1/2 lb. (4 to 8 oz) 1/3 to 2/3 lb (5 1/3 to 10 2/3 oz) | 24 | Apply the specified amount of ORTHENE Turf, Tree & Ornamental in 100 gals. of water with a hydraulic sprayer. The addition of a suitable sticker improves control. |
| | azadirachtin (Aza-Direct) | | 1-2 pt/acre | 4 | Under extremely heavy pest pressure, up to 3 1/2 pt may be used. |
| | bifenthrin (OnyxPro) | | See label. | 12 | See label. |
| | carbaryl (Sevin SL) | | 1 qt/acre | 12 | |
| | cyantraniliprole (Mainspring GNL) | | See label. | 4 | No more than 32 fl oz per acre per year. |
| | diflubenzuron (Dimilin 25W) | | 2-4 oz/acre | 12 | Apply to early instars in mid to late June. |
| | dimethoate (Dimethoate 400) | | 1.0-1.5 pt/acre | 10 days | |
| | lambda-cyhalothrin (Silencer) (Warrior II) | | 2.58-5.12 oz/acre 1.28-2.56 oz/acre | 24 24 | Maximum use 1.92 pt/acre per year. |
| | spinosad (Conserve SC, SpinTor 2SC) | | See label. | 4 | |
| | tebufenozide (Confirm 2F) | | 4-8 oz/acre | 4 | Apply to early instar larvae; foliage development should be a minimum of 20%. DO NOT apply more than 16 oz/acre per year. |
| Elongate Hemlock Scale and Cryptomeria Scale | bifenthrin 25% (Sniper) | | 3.9-12.8 oz/acre | 12 | Will also control twig aphid and spider mites but not rust mites. |
| | bifenthrin (OnyxPro) | | See label. | 12 | See label. |
| | buprofezin (Talus 70 DF) | | 14 oz/acre | 12 | |
| | dimethoate (Dimethoate 400) | | 1.0-1.5 pt/acre | 10 days | |
| | dinotefuran (Safari) | | 4-8 oz/100 gal | 12 | DO NOT apply more than 2.7 lb per acre. |
| | esfenvalerate (Asana XL) | | 5.8-9.6 oz/100 gal | 12 | Best results when mixed with dimethoate. |

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|---|---|---|--------------------------------------|--|--|
| Elongate Hemlock Scale and Cryptomeria Scale (cont.) | mineral oil emulsion (TriTek) | | 1 to 2 gal/100 gal | 4 | Maintain agitation until solution is used. |
| | spirotetramat (Movento) | | 5 to 10 oz/acre | 24 | Maximum use 20 oz/acre/year. Use adjuvant to increase penetration. |
| European Pine Shoot Moth | azadirachtin (Aza-Direct) | | 1-2 pt/acre | 4 | Under extremely heavy pest pressure, up to 3 1/2 pt may be used. |
| | chlorpyrifos (Lorsban 4E) | | 1 qt/acre | 24 | DO NOT treat plants under extreme heat or drought stress. |
| | dimethoate (Dimethoate 400) | | 1.0-1.5 pt/acre | 10 days | |
| | phosmet (Imidan 70-W) | | 1.3-1.5 lb/acre | 13 days | |
| Midge (Douglas fir needle midge, pine needle midge) | acephate (Orthene Tree, Turf, & Ornamental) 97% Spray WSP | | 1/2 lb. (8 oz) 2/3 lb (10 2/3 oz) | 24 | Apply the specified amount of ORTHENE Turf, Tree & Ornamental in 100 gals. of spray per acre by ground. |
| | azadirachtin (Aza-Direct) | | 1 to 2 pts/acre | 4 | Under extremely heavy pest pressure up to 3.5 pints may be used. |
| | carbaryl (Sevin SL) | | 1 qt/acre | 12 | |
| | chlorpyrifos (Lorsban 4E) | | 1 qt/acre | 24 | Do not treat plants under extreme heat or drought stress. |
| | diflubenzuron (Dimilin 4L) | | 1 to 2 oz/acre | 12 | Apply when second generation instars are present or 70% of first generation pupal cases are empty. |
| | dimethoate (Dimethoate 400 or Clean Crop) | | 1 to 1 1/2 pt/acre | 10 days | |
| | esfenvalerate (Asana XL) | | 5.8 to 9.6 oz/100 gal | 12 | |
| | permethrin (Permethrin 3.2 EC) | | 4 to 8 oz/acre | 12 | |
| | phosmet (Imidan 70-WSB) | | 1.3 to 1.5 lb/acre | 13 days | |
| | tebufenozide (Confirm or Mimic 2LV) | | 8 oz/acre | 4 | Apply to early instar larvae after each foliage flush at approximately 25% foliage expansion. Allow at least 6 hours between application and rainfall to assure thorough spray drying. |
| Nantucket Pine Tip Moth | acephate (Orthene Tree, Turf, & Ornamental) 97% Spray WSP | | 3/4 lb. (12 oz) 1 lb (16 oz) | 24 | Apply the specified amount of ORTHENE Turf, Tree & Ornamental in 100 gals. of spray per acre by ground. |
| | azadirachtin (Aza-Direct) | | 1-2 pt/acre | 4 | Under extremely heavy pest pressure, up to 3 1/2 pt may be used. |
| | bifenthrin (OnyxPro) | | See label. | 12 | See label. |
| | carbaryl (Sevin SL) | | 1 qt/acre | 12 | |
| | diflubenzuron (Dimilin 25W) | | 2-4 oz/acre | 12 | Apply when second generation instars are present or 70% of first generation pupal cases are empty. |
| | dimethoate (Dimethoate 400) | | 1.0-1.5 pt/acre | 10 days | |
| | esfenvalerate (Asana XL) | | 5.8-9.6 oz/100 gal | 12 | Apply as needed for control. Spray sufficient gallonage to obtain good coverage of entire tree. |
| | lambda-cyhalothrin (Warrior II) | | 1.28-2.56 fl oz/A | 12 | Do not apply more than 15.36 fl oz/year. Thorough coverage is very important. |

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|--|--|---|---|--|--|
| Nantucket Pine Tip Moth (cont.) | permethrin (Permethrin 3.2 EC, Pounce) | | 4-8 oz/100 gal | 12 | Begin applications when adults appear. Repeat applications may be made in 5- to 7-day intervals as needed. |
| | phosmet (Imidan 70-W) | | 1.3-1.5 lb/acre | 13 days | |
| | spinosad (Conserve SC, SpinTor 2SC) | | See label. | 4 | |
| | tebufenozide (Confirm) | | 8 oz/acre | 4 | Apply to early instar larvae after each foliage flush at approximately 25% foliage expansion. Allow at least 6 hours between application and rainfall to ensure thorough spray drying. |
| Pine Chafer | esfenvalerate (Asana XL) | | 5.8-9.6 oz/100 gal | 12 | |
| | lambda-cyhalothrin (Silencer) | | 2.58-5.12 oz/acre | 24 | Maximum use 1.92 pt/acre per year. |
| | (Warrior II) | | 1.28-2.56 oz/acre | 24 | |
| Rosette Bud Mite | dimethoate (Dimethoate 400) | | 1.3 pt/acre | 10 days | |
| | bifenthrin (OnyxPro) | | See label. | 12 | See label. |
| | spirotetramat (Movento) | | 5-10 oz/acre | 24 | Maximum use 20 oz/acre per year. Use adjuvant to increase penetration. |
| Rust Mite | abamectin (Ardent 0.15 EC) | | 4 oz/100 gal | 12 | |
| | bifenthrin (OnyxPro) | | See label. | 12 | See label. |
| | carbaryl (Sevin SL) | | 1 qt/acre | 12 | |
| | chloropyridan (Sanmite) | | 4 oz/100 gal OR 10.7 oz/acre | 12 | |
| | chlorpyrifos (Lorsban 4E) | | 1 qt/acre | 24 | DO NOT treat plants under extreme heat or drought stress. |
| | dimethoate (Dimethoate 400) | | 1.0-1.5 pt/acre | 10 days | |
| | fenpyroximate (Akari 5SC) | | 24 oz/100 gal | 12 | |
| | insecticidal soap (M-Pede) | | 1 to 2 gal/100 gal | 12 | May cause foliage discoloration. |
| | mineral oil emulsion (TriTek) | | 1 to 2 gal/100 gal | 4 | Maintain agitation until solution is used. |
| | petroleum oil (Damoil) | | 2-4 gal/100 gal dormant use 1-3 gal/100 gal summer use | 4 | |
| | spirodiclofen (Envendor 2SC) | | 18-24.7 oz/acre | 24 | Make only one application per season. |
| | Sawfly (redheaded pine, red pine, European pine) | acephate (Orthene Tree, Turf, & Ornamental) 97% Spray WSP | 3/4 lb. (12 oz) 1 lb (16 oz) | 24 | Apply the specified amount of ORTHENE Turf, Tree & Ornamental in 100 gals. of spray per acre by ground. |
| | carbaryl (Sevin SL) | | 1 qt/acre | 12 | |
| | chlorpyrifos (Nufos 4E) | | 1 qt/acre | 24 | |
| | diflubenzuron (Dimilin 25W) | | 4-8 oz/acre | 12 | Apply to early instars. |
| | dinotefuran (Safari) | | 4 to 8 oz/100 gal | 12 | Do not apply more than 2.7 pounds per acre. |
| | esfenvalerate (Asana XL) | | 5.8-9.6 oz/100 gal | 12 | |
| | imidacloprid (Pasada 1.6F, Provado 1.6 F) | | 4-8 oz/acre OR 2 oz/100 gal | 12 | Adding a spray adjuvant may improve control. DO NOT apply more than 40 oz/acre per year. |

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|---|---|---|---|--|--|
| Sawfly (cont.) (redheaded pine, red pine, European pine) | insecticidal soap (M-Pede) | 2 Tbsp/gal | 1 to 2 gal/100 gal | 12 | May cause foliage discoloration. |
| | lambda-cyhalothrin (Silencer) (Warrior II) | | 2.58-5.12 oz/acre 1.28-2.56 oz/acre | 24 24 | Maximum use 1.92 pt/acre per year. |
| | malathion (Malathion 8 or Gowan) | | 1 pt/100 gal | 12 | |
| | mineral oil emulsion (TriTek) | | 1 to 2 gal/100 gal | 4 | Maintain agitation until solution is used. |
| | phosmet (Imidan 70-W) | | 1.3-1.5 lb/acre | 13 days | |
| | spinosad (Conserve SC, SpinTor 2SC) | | See label. | 4 | |
| | thiamethoxam (Flagship 25WP) | | 4 to 8.5 oz/100 gal or 8 to 17 oz/acre | 12 | Maximum use 17 oz/acre/year. |
| Scale (cont.) (pine needle, pine tortoise, spruce bud, black pine, stripped pine) | acephate (Orthene 75SP and others Tree and Ornamental Spray Formulations) | 2/3 lb | 24 | | |
| | azadirachtin (Aza-Direct) | | 1-2 pt/acre | 4 | Under extremely heavy pest pressure, up to 3 1/2 pint may be used. |
| | carbaryl (Sevin SL) | | 1 qt/acre | 12 | Controls crawlers only. |
| | chlorpyrifos (Lorsban 4E) | | 1 qt/acre | 24 | DO NOT treat plants under extreme heat and drought stress. Apply when scale crawlers are active. |
| | dinotefuran (Safari) | | 4-8 oz/100 gal | 12 | DO NOT apply more than 2.7 lb per acre. |
| | lambda-cyhalothrin (Silencer) (Warrior II) | | 2.58-5.12 oz/acre 1.28-2.56 oz/acre | 24 24 | Maximum use 1.92 pt/acre/year. |
| | mineral oil emulsion (TriTek) | | 1 to 2 gal/100 gal | 4 | Maintain agitation until solution is used. |
| See also elongate hemlock scale) | petroleum oil (Damoil) | | 2-4 gal/100 gal dormant use 1-3 gal/100 gal summer use | 4 | |
| | spirotetramat (Movento) | | 5 to 10 oz/acre | 24 | Maximum use 20 ounces/acre/year. Use adjuvant to increase penetration. |
| | spirodiclofen (Envendor 2SC) | | 18-24.7 oz/ 100 gal | | |
| | Superior oil, 70 sec | | 2 gal/100 gal | | Apply oil as dormant spray. |
| | thiamethoxam (Flagship 25WP) | | 4 to 8.5 oz/100 gal or 8 to 17 oz/acre | 12 | Maximum use 17 oz/acre/year. |
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| Seed Bug | esfenvalerate (Asana XL or Adjourn) | | 9.6 oz/100 gal | 12 | |
| | lambda-cyhalothrin (Silencer, Warrior) | | 2.58-5.12 oz/acre | 24 | Maximum use 1.92 pt/acre per year. |
| | permethrin (Permethrin 3.2 EC) | | 30 oz/acre | 12 | |
| | phosmet (Imidan 70-WSB) | | 1.3 to 1.5 lb/acre | 13 days | |

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|--|--|---|--|--|---|
| Spider Mite (spruce spider mite) | abamectin (Ardent 0.15 EC) | | 4 oz/100 gal | 12 | |
| | abamectin (Avid 0.15 EC) | | 4-8 oz/100 gal | 12 | DO NOT apply more than 16 oz or less than 8 oz per acre. |
| | azadirachtin (Aza-Direct) | | 1 to 2 pts/acre | 4 | Under extremely heavy pest pressure up to 3½ pints may be used. |
| | <i>Beauveria bassiana</i> (Naturalis L) | 0.3-1.0 oz/gal | 30-100 oz/100 gal | 4 | Spray immediately after mixing. |
| | bifenazate (Floramite) | | 2-8 oz/100 gal | 12 | Add an adjuvant like Silwet L-77 or Slygard 309 to the Floramite solution. |
| | bifenthrin 25% (Sniper) | | 3.9-12.8 oz/acre | 12 | Will also control twig aphids and spider mites but not rust mites. |
| | bifenthrin (OnyxPro) | | See label. | 12 | See label. |
| | chloropyridan (Sanmite) | | 4 oz/100 gal OR 10.7 oz/acre | 12 | |
| | chlorpyrifos (Lorsban 4E, Nufos 4E) | | 1 qt/acre | 24 | DO NOT treat plants under extreme heat or drought stress. If eggs are present, reapply in 7 to 10 days to control newly hatched nymphs. |
| | clofentezine (Apollo SC) | | 4-8 oz/acre | 12 | Most effective when applied at first sign of mite activity and mite eggs. |
| | cinnamaldehyde (Cinnamate) | 2 Tbsp/gal | 85 oz/100 gal | 4 | |
| | cyflumetofen (Sultan Miticide) | | 13.7 fl oz/100 gal | 12 | DO NOT exceed the maximum seasonal use rate of 27.4 fl oz of Sultan per crop growing cycle. DO NOT make more than two (2) applications of Sultan per crop per year. |
| | dimethoate (Dimethoate 400) | | 1.0-1.5 pt/acre | 10 days | |
| | etoxazole (TetraSan 5 WDG) | | 8-16 oz/100 gal | 12 | TetraSan kills mite eggs and nymphs but not adult mites. Treated adults will not produce viable eggs. |
| | fenazaquin Magus | | 12 to 24 oz/100 gal | 12 | Do not exceed 24 oz per acre per year for outdoor applications. |
| | fenpyroximate (Akari 5 SC) | | 16-24 oz/100 gal | 12 | |
| | hexathiazox (Savay) 50 WP | 3-6 oz/acre | 2 oz/100 gal | 12 | DO NOT make more than one application per year. |
| | insecticidal soap (M-Pede) | | 1 to 2 gal/100 gal | 12 | May cause foliage discoloration. |
| | mineral oil emulsion (TriTek) | | 1 to 2 gal/100 gal | 4 | Maintain agitation until solution is used. |
| | propargite (Ornamite-CR) | | 3.0-7.5 lb/acre | 7 days | No more than 3 applications per year. Compatibility restrictions. |
| | spirodichlofen (Envendor 2SC) | | 18-24.7 oz/acre | 24 | Make only 1 application per season. |
| | spiromesifen (Judo) | | 1-4 oz/100 gal | 12 | DO NOT apply more than 4 times per season. |
| Spittlebug | bifenthrin (OnyxPro) | | See label. | 12 | See label. |
| | chlorpyrifos (Lorsban 4E) | | 1 qt/acre | 24 | DO NOT treat plants under extreme heat or drought stress. |
| | esfenvalerate (Asana XL) | | 5.8-9.6 oz/100 gal | 12 | |
| | lambda-cyhalothrin (Silencer) (Warrior II) | | 2.58-5.12 oz/acre 1.28-2.56 oz/acre | 24 24 | Maximum use 1.92 pt/acre per year. |

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| Spruce Needle Miner | chlorpyrifos (Lorsban 4E) | | 1 qt/acre | 24 | DO NOT treat plants under extreme heat or drought stress. |
| Weevil (pales, northern pine, pitch eating, root collar, white pine) | azadirachtin (Aza-Direct) | | 1-2 pt/acre | 4 | Under extremely heavy pest pressure, up to 3 1/2 pint may be used. |
| | bifenthrin (OnyxPro) | | See label. | 12 | See label. |
| | chlorpyrifos (Lorsban 4E, Nufos 4E) | 2 Tbsp/gal | 3 qt/100 gal | 24 | Apply as a cut stump drench. |
| | diflubenzuron (Dimilin 25W) | | See label. | 12 | Treat prior to egg deposition. |
| | esfenvalerate (Asana XL) | | 5.8-9.6 oz/100 gal | 12 | |
| | permethrin (Astro, etc.) | | See label. | 12 | |
| | phosmet (Imidan 70-W) | | 1.3-1.5 lb/acre | 13 days | |
| White Grub | chlorpyrifos (Lorsban 4E) | | 1 qt/acre | 24 | Incorporate into the soil if possible. |
| | imidacloprid (Admire Pro) | | 7-14 oz/acre | 12 | Maximum per season: 14 oz/acre. |
| | thiamethoxam (Flagship 25WG) | | 6 to 8.5 oz/100 gal or 12.7 to 17 oz/acre | 12 | Apply from adult flight through peak egg hatch. Maximum use 17 oz/acre/year. |
| Zimmerman Pine Moth | azadirachtin (Aza-Direct) | | 1-2 pt/acre | 4 | Under extremely heavy pest pressure, up to 3 1/2 pint may be used. |
| | bifenthrin (OnyxPro) | | See label. | 12 | See label. |
| | diflubenzuron (Dimilin 25W) | | 4-8 oz/acre | 12 | Apply to early instars. |
| | dimethoate (Dimethoate 400) | | 1.0-1.5 pt/acre | 10 days | |
| | tebufenozide (Confirm 2F) | | 4 to 8 oz/acre | 4 | Apply to early instar larvae; foliage development should be a minimum of 20%. Do not apply more than 16 oz per acre per year. |