



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

September 28, 2022

Michael Kellogg  
Regulatory Consultant  
Willowood, LLC  
c/o Pyxis Regulatory Consulting Inc.  
4110 136<sup>th</sup> St. Ct. NW  
Gig Harbor, WA 98332

Subject: Registration Review Label Mitigation for Abamectin  
Product Name: WILLOWOOD ABAMECTIN 0.7SC  
EPA Registration Number: 87290-36  
Application Date: 09/30/2019  
Decision Number: 555721

Dear Michael Kellogg:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Abamectin Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently

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approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Srijana Shrestha by phone at 202-566-2329, or via email at [shrestha.srijana@epa.gov](mailto:shrestha.srijana@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington", with a stylized flourish at the end.

Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

Enclosure

[Note to Reviewer: [Text] in brackets denotes optional language.]

**RESTRICTED USE PESTICIDE**  
 TOXIC TO FISH, MAMMALS, AND AQUATIC ORGANISMS  
 FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

**ACCEPTED**  
 Sep 28, 2022  
 Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 87290-36

**Willowood Abamectin 0.7SC**  
 Miticide/Insecticide

|                  |              |          |                    |
|------------------|--------------|----------|--------------------|
| <b>ABAMECTIN</b> | <b>GROUP</b> | <b>6</b> | <b>INSECTICIDE</b> |
|------------------|--------------|----------|--------------------|

**ACTIVE INGREDIENT:**

Abamectin\* ..... 8.0%

**OTHER INGREDIENTS:** ..... 92.0%

**TOTAL:** ..... 100.0%

\*CAS No. 71751-41-2; 1 Gal. contains 0.7 lb. Abamectin

**KEEP OUT OF REACH OF CHILDREN**  
**WARNING/AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

| <b>FIRST AID</b>   |  |
|--|--|
| <b>IF SWALLOWED:</b>   | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| <b>IF INHALED:</b>   | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>  |
| <b>IF ON SKIN OR CLOTHING:</b>   | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <b>IF IN EYES:</b>   | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <b>HOT LINE NUMBER</b>   |  |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For general information on product use, etc., call the National Pesticides Information Center (NPIC) at 1-800-858-7378 Mon. - Fri. 8:00 am to 12:00 pm Pacific Time. For emergencies, call the poison control center at 1-800-222-1222. |  |

#### **NOTE TO PHYSICIAN**

Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular tremors. Toxicity following accidental ingestion of this product can be minimized by early administration of chemical absorbents (e.g., activated charcoal).

If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements.

In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.

[See [inside] label booklet for First Aid, Precautionary Statements and Directions for Use including Storage and Disposal instructions.]

[See label booklet for First Aid, additional Precautionary Statements and Directions for Use.]

**EPA Reg. No. 87290-36**

**EPA Est. No.**

**Manufactured for:**

Willowood, LLC  
385 Interlocken Crescent, Suite #240  
Broomfield, CO 80021

**Net Contents:**

## **PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING/AVISO**

May be fatal if swallowed. May be fatal if inhaled. Do not breathe vapor or spray mist. Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves: barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils
- Shoes plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### **Engineering Controls**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for “applicators and other handlers” and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

### **User Safety Recommendations**

#### **Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and wildlife.

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from target areas. Do not contaminate water when disposing of equipment wash water or rinsate. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging in/or adjacent to the treatment area.

Use of this product may pose a risk to threatened and endangered species of fish, amphibians, crustaceans, (including fresh water shrimp), and insects. All use of this product in the state of California should comply with the recommendations of the California Endangered Species Project. Before using this product in California, consult with your county agriculture commissioner to determine use limitations that apply in your area.

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a medium potential for reaching both surface water and aquatic sediment via runoff for several weeks to months after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of abamectin from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours.

**Attention: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.**

### **PHYSICAL OR CHEMICAL HAZARDS**

Do not store near or use with oxidizing agents.

## **DIRECTIONS FOR USE**

### **RESTRICTED USE PESTICIDE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and

restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. Exception: For grape girdling, cane turning, and tying in grapes, do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 days.**

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water is:

- Coveralls over short pants and short-sleeved shirt
- Chemical-resistant gloves made of barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils
- Shoes plus socks

**FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR PEST CONTROL, AND/OR ILLEGAL RESIDUES.**

### **PRODUCT INFORMATION**

Apply Willowood Abamectin 0.7SC in accordance with label directions for control of listed pests. There must be thorough coverage of the target area for effective control.

Willowood Abamectin 0.7SC is an aqueous-based soluble concentrate and must be combined with a horticultural spray oil (not a dormant oil) or a non-phytotoxic non-ionic activator type wetting, spreading and/or penetrating adjuvant in order to avoid illegal residues. Read and follow the label directions and restrictions for the horticultural spray oil and the directions on all products used in the spray solution.

#### **Non-Phytotoxic Non-Ionic Activator Type Wetting, Spreading And/Or Penetrating Adjuvant**

Includes non-ionic surfactants (NIS) with at least 15% emulsifiers/surfactants and that contain 75% surface active agent and crop oil concentrates (COC), methylated seed/vegetable oils (MSO), organosilicones (OS) and vegetable oil concentrates (VOC). This also includes products containing a blend of these non-ionic activator type adjuvants.

Any adjuvants combined with this product must be compatible with Willowood Abamectin 0.7SC. Adjuvants must be used in accordance with the adjuvant label directions, unless otherwise specified in this label.

For adjuvants, Willowood recommends Chemical Producers and Distributors Association-certified products.

#### **Phytotoxicity**

Phytotoxicity testing has confirmed that Willowood Abamectin 0.7SC has a wide safety margin when applied to listed crops.

This product may be mixed with many pesticides, nutritional sprays and crop oils in common use. However, as testing of all possible mixtures is not possible, applicators must pre-test any proposed mixture to ensure physical compatibility and to assess any potentially phytotoxic effects.

#### **RUNOFF PREVENTION**

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

**Restrictions:**

- **New York State Restriction:** Do not apply Willowood Abamectin 0.7SC with aircraft in New York State.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- Do not combine this product with sticker-type/binder surfactants.

**SPRAY DRIFT****Aerial Applications:**

- Do not release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 15 mph at the application site. If the wind speed is greater than 10 mph, the boom length must not exceed 65% of the wingspan for fixed wing aircraft or 75% of the rotor diameter for helicopters. Otherwise, the boom length must not exceed 75% of the wingspan for fixed wing aircraft or 90% of the rotor diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Do not apply during temperature inversions.

**Airblast applications:**

- Sprays must be directed into the canopy.
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- User must turn off outward pointing nozzles at the row end and when spraying the outer row.
- Do not apply during temperature inversions.

**Ground Boom Applications:**

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

**Boomless Ground Applications:**

- Applicators are required to use a medium or coarser droplet size (ASABE S572.1) for all applications.
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

**SPRAY DRIFT ADVISORIES**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.  
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

**IMPORTANCE OF DROPLET SIZE**

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

**Controlling Droplet Size – Ground Boom**

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.

- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### **Controlling Droplet Size – Aircraft**

- Adjust Nozzles - Follow nozzle manufacturers' recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

#### **BOOM HEIGHT – Ground Boom**

For ground equipment, the boom should remain level with the crop and have minimal bounce.

#### **RELEASE HEIGHT - Aircraft**

Higher release heights increase the potential for spray drift.

#### **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

#### **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

#### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

#### **WIND**

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

#### **Boom-less Ground Applications:**

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

#### **Handheld Technology Applications:**

- Take precautions to minimize spray drift.

#### **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, Willowood Abamectin 0.7SC contains a Group 6 insecticide/acaricide. Any insect/mite population may contain individuals naturally resistant to Willowood Abamectin 0.7SC and other Group 6 insecticides/acaricides. The resistant individuals may dominate the insect/mite population if this group of insecticides/acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide/acaricide resistance, take the following steps:

- Rotate the use of Willowood Abamectin 0.7SC or other Group 6 insecticides/acaricides within a growing season, or among growing seasons, with different groups that control the same pests.



- Use tank mixtures with insecticides/acaricides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Willowood, LLC.

## **CROP USE DIRECTIONS**

### **APPLES**

Apply Willowood Abamectin 0.7SC with ground concentrate or conventional dilute sprayers.

Calibrate spray application equipment to deliver sufficient solution for thorough coverage of the target area. Spray volume will depend on the number and size of trees in the treatment area and foliage density. For optimal control, thorough coverage is essential.

Willowood Abamectin 0.7SC must be combined with a horticultural spray oil (not a dormant oil) in order to avoid illegal residues. Read and follow the label directions and restrictions for the horticultural spray oil and the directions on all products used in the spray solution. Do not combine this product with sticker-type/binder surfactants.

Applying Willowood Abamectin 0.7SC alone in combination with horticultural spray oil or in sequence with other product(s) may cause fruit damage to certain varieties of apple, for example, light skinned varieties such as Golden Delicious may display russetting.

There must be thorough coverage of the target area in order to achieve control of target pests.

Restriction:

- Willowood Abamectin 0.7SC when combined with a horticultural spray must not be applied within 14 days of an application of Captan® or phytotoxicity and crop loss may occur.

### Apples: Dilute Spray Application

Application rates are based on an application spray volume of 400 gallons per acre. Where horticultural spray is used, apply at a rate of 1 gallon per acre or 0.25% of application solution.

| Willowood Abamectin 0.7SC Application Rate                             | Pests Controlled   | Directions   |
|--|--|--|
| 0.5-1.0 fl. oz. (0.003-0.005 lb. ai) per 100 gallons of spray solution | European red mite<br>McDaniel spider mite<br>Tentiform leafminer<br>Twospotted spider mite<br>White apple leafhopper | Treat the target area with Willowood Abamectin 0.7SC when insect/spider mite thresholds are reached. Make a second treatment if required in order to maintain control of target pests. Refer to Restrictions (below).<br>For optimal control of spider mites, treat with Willowood Abamectin 0.7SC prior to a spider mite threshold of 5 spider mites per leaf. Residual control of spider mites is greater on newer leaves and less on older leaves.<br>For optimal control of spider mites, apply this product during the period between petal fall up to 6 weeks after petal fall.<br>For optimal control of Tentiform Leafminer, treat first and second generation tentiform leafminers at the egg stage and at the early sap feeder stage of development when thresholds (locally established) have been reached.<br>Choose lower rate for light infestations and higher rate for heavy infestations. |

### Apples: Concentrate Spray Application

In order to calculate the use rate for concentrate spray application:

1. Calculate the amount needed for a full cover dilute application.
2. Use the same amount of Willowood Abamectin 0.7SC in a concentrate spray application that would be required for a dilute spray to the same grove/orchard. Note: this may result in a use rate of <2.25 fl. oz. (0.012 lb. ai) per acre.

Where horticultural spray is used, apply at a rate of a 1 gallon per acre minimum.

| Willowood Abamectin 0.7SC Application Rate      | Pests Controlled   | Directions   |
|---|--|--|
| 2.25-4.25 fl. oz. (0.012-0.023 lb. ai) per acre | European red mite<br>McDaniel spider mite<br>Tentiform leafminer<br>Twospotted spider mite<br>White apple leafhopper | Treat the target area with Willowood Abamectin 0.7SC when insect/spider mite thresholds are reached. Make a second treatment if required in order to maintain control of target pests. Refer to Restrictions (below).<br>For optimal control of spider mites, treat with Willowood Abamectin 0.7SC prior to a spider mite threshold of 5 spider mites per leaf. Residual control of spider mites is greater on newer leaves and less on older leaves.<br>For optimal control of spider mites, apply this product during the period between petal fall up to 6 weeks after petal fall.<br>For optimal control of Tentiform Leafminer, treat first and second generation tentiform leafminers at the egg stage and at the early sap feeder stage of development when thresholds (locally established) have been reached.<br>Choose lower rate for light infestations and higher rate for heavy infestations. |

### Restrictions

- Do not apply this product within 28 days of harvest.
- Combine Willowood Abamectin 0.7SC with a horticultural spray oil (not a dormant oil) in order to avoid illegal residues. Read and follow the label directions and restrictions for the horticultural spray oil and the directions on all products used in the spray solution.
- Do not combine this product with sticker-type/binder surfactants.

- Do not apply Willowood Abamectin 0.7SC when combined with a horticultural spray within 14 days of an application of Captan® or phytotoxicity and crop loss may occur.
- Apply by ground application only.
- Do not apply via aerial application.
- Do not apply more than 0.023 lb. abamectin per acre per application (4.25 fl. oz. per acre per application of Willowood Abamectin 0.7SC) or any other foliar-applied abamectin-containing product.
- Apply Willowood Abamectin 0.7SC in a minimum of 40 gallons of water per acre.
- Where required to maintain control, observe a 21-day re-treatment interval. This maximum applies to any other product containing abamectin that is applied to foliage.
- Do not make more than 2 applications of Willowood Abamectin 0.7SC or any other foliar-applied abamectin-containing product per calendar year.
- Do not apply more than 0.047 lb. abamectin per acre per calendar year (8.5 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC). This maximum applies to any other product containing abamectin that is applied to foliage.
- Do not allow livestock to graze in treated orchards.
- Do not apply Willowood Abamectin 0.7SC during bloom.
- For control of White Apple Leafhopper, apply Willowood Abamectin 0.7SC to the first generation only, shortly after petal fall.

## AVOCADOS

Apply Willowood Abamectin 0.7SC as a ground application or via aerial application in order to control avocado thrips.

For optimal effectiveness, apply Willowood Abamectin 0.7SC as a ground application. Aerial application is less effective than ground application in controlling thrips. If Willowood Abamectin 0.7SC is applied by air, the applicator is solely responsible for any reduced control of thrips or any reduction in the duration of control of thrips.

Spray volume will depend on the number and size of trees in the treatment area and foliage density. For optimal control, thorough coverage is essential.

Willowood Abamectin 0.7SC must be combined with a horticultural spray oil labeled for application in avocados (not a dormant oil) at a rate of 1.0% to 4.0% v/v in order to avoid illegal residues. Read and follow the label directions and restrictions for the horticultural spray oil and the directions on all products used in the spray solution. Apply the combination to a small test area when applying oil concentrations exceeding 2% prior to full application.

Do not combine this product with sticker-type/binder surfactants.

Infestation levels:

- Low: 1-2 immature thrips per fruit/leaf
- Moderate: 3-4 immature thrips per fruit/leaf
- Severe: More than 5 immature thrips per fruit/leaf

| <b>Willowood Abamectin 0.7SC Application Rate</b>  | <b>Pests Controlled</b>                        | <b>Directions</b>  |
|--|--|--|
| Low to moderate infestations: 2.25-3.25 fl. oz. (0.012-0.018 lb. ai) per acre<br><br>Severe infestations: 4.25 fl. oz. (0.023 lb. ai) per acre | Avocado Thrips ( <i>Scirtothrips perseae</i> ) | For optimal control, apply Willowood Abamectin 0.7SC before numbers of immature thrips exceed 5 per leaf/fruit. A second application may be made as required in order to maintain control a minimum of 30 days after the first application (refer to Restrictions below).<br>If Willowood Abamectin 0.7SC is applied via ground application and where spray volume exceeds 400 gallons per acre, apply this product at a rate of 0.5 fl. oz. per 100 gallons of water. |

**Restrictions**

- Do not apply this product within 14 days of harvest.
- Combine Willowood Abamectin 0.7SC with a horticultural spray oil labeled for application in avocados (not a dormant oil) in order to avoid illegal residues. Read and follow the label directions and restrictions for the horticultural spray oil and the directions on all products used in the spray solution.
- Do not combine this product with sticker-type/binder surfactants.
- Ground application: Willowood Abamectin 0.7SC must be applied in a minimum of 100 gal. of water per acre.
- Aerial application: Willowood Abamectin 0.7SC must be applied in a minimum of 50 gal. of water per acre.
- Do not apply more than 0.023 lb. abamectin per acre per application (4.25 fl. oz. per acre per application of Willowood Abamectin 0.7SC) or any other foliar-applied abamectin-containing product.
- If a second application is necessary, wait at least 30 days before repeating application of this product or any other foliar-applied abamectin-containing product.
- Do not make more than 2 applications of Willowood Abamectin 0.7SC or any other foliar-applied abamectin-containing product per calendar year.
- Do not apply more than 0.047 lb. abamectin per acre per calendar year (8.5 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC). This maximum applies to any other product containing abamectin that is applied to foliage.
- Do not allow livestock to graze in treated orchards.

**CELERIAC (*APIUM GRAVEOLLENS*)**

Apply Willowood Abamectin 0.7SC in order to control twospotted spider mite as a conventional dilute treatment or using concentrate sprayers. For best effectiveness, calibrate sprayers to ensure sufficient water is delivered and the crop canopy is thoroughly covered with the treatment solution. Reduced control may result if coverage is insufficient.

Willowood Abamectin 0.7SC must be combined with a non-ionic activator type spreading, wetting and /or penetrating adjuvant in order to avoid illegal residues. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution. Do not combine this product with sticker-type/binder surfactants.

| <b>Willowood Abamectin 0.7SC Application Rate</b> | <b>Pests Controlled</b> | <b>Directions</b>   |
|---|-------------------------|---|
| 3.5 fl. oz. (0.019 lb. ai) per acre               | Twospotted spider mite  | Treat with Willowood Abamectin 0.7SC when mites first appear. Repeat treatment may be made in order to maintain control as required. Refer to Restrictions (below). |

**Restrictions**

- Do not apply this product within 7 days of harvest.
- Combine Willowood Abamectin 0.7SC with a non-ionic activator type spreading, wetting and /or penetrating adjuvant labeled for use in celeriac, in order to avoid illegal residues. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution.
- Do not combine this product with sticker-type/binder surfactants.
- Apply by ground application only.
- Do not apply in less than 20 gal. of water per acre.
- Wait at least 7 days before repeating application of this product or any other foliar-applied abamectin-containing product.

- Do not make more than 2 sequential applications of Willowood Abamectin 0.7SC or any other foliar-applied abamectin-containing product.
- Do not apply more than 0.019 lb. abamectin per acre per application (3.5 fl. oz. per acre per application) of Willowood Abamectin 0.7SC or any other foliar-applied abamectin-containing product.
- After transplanting, do not exceed a maximum of 0.056 lb. abamectin per acre per calendar year (10.25 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC). The maximum use rate of 0.056 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.

**CITRUS FRUIT CROP GROUP (CROP GROUP 10)**

**(Calamondin, Citrus citron, Citrus hybrids (includes chironja, tangelo, tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Sour orange, Sweet orange, Pummelo, and Satsuma mandarin)**

Spray volume will depend on the number and size of trees in the treatment area and foliage density. For optimal control, thorough coverage is essential.

**Aerial Application**

**Restriction**

- Aerial application is permitted only for control of citrus leafminer.

Aerial treatment of leafminer may result in reduced efficacy in the control of leafminer and the duration of control when compared to ground application.

**Ground Application**

Apply Willowood Abamectin 0.7SC in order to control listed pests as a conventional dilute treatment or using concentrate sprayers. For best effectiveness, calibrate sprayers to ensure sufficient water is delivered for thorough coverage, or outside coverage for citrus leafminer, Asian citrus psyllid or citrus thrips.

Combine this product with a horticultural spray oil (0.20% minimum), not a dormant oil, or a minimum of 1.0 gal. of horticultural oil per acre (except where otherwise directed in the following table) in order to avoid illegal residues. Do not combine this product with sticker-type/binder surfactants.

**Crop Group 10: Dilute Spray Application**

Application rates for this product per 100 gallons are based on a dilute application spray volume of 1000 gallons per acre.

| <b>Willowood Abamectin 0.7SC Application Rate</b>         | <b>Pests Controlled</b> | <b>Directions</b>   |
|---|-------------------------|---|
| 0.25 – 0.4 fl. oz. (0.001-0.002 lb. ai) per 100 gallons   | Broad mite              | For control of mites, apply Willowood Abamectin 0.7SC in the fall, spring or summer when mites first appear.  |
|   | Citrus bud mite         |   |
|   | Twospotted spider mite  | For optimal control of citrus bud mites, apply Willowood Abamectin 0.7SC at bud swell.  |
| 0.125 – 0.4 fl. oz. (0.0007-0.002 lb. ai) per 100 gallons | Citrus rust mite        | Choose lower rate for light infestations and higher rate for heavy infestations.  |
|   | Citrus thrips           |   |
|   |                         | Apply Willowood Abamectin 0.7SC once economic thresholds have been reached i.e. following the start of egg hatch. For optimal results, treat early to mid-hatch. Treatment must be timed correctly as application will only control the current generation of citrus thrips. Choose lower rate for light infestations and higher rate for heavy infestations. |

|  |                      |   |
|--|----------------------|---|
|  | Citrus leafminer     | Apply Willowood Abamectin 0.7SC to control citrus leafminer to protect new growth in the fall, spring or summer. Choose lower rate for light infestations and higher rate for heavy infestations.   |
|  | Asian citrus psyllid | Application with this product will only control nymphs and adults that are present at the time of treatment. Apply Willowood Abamectin 0.7SC to control Asian citrus psyllid and to protect newly expanding foliage flush in the fall, spring or summer. Choose lower rate for light infestations and higher rate for heavy infestations. |

### Crop Group 10: Concentrate Spray Application

Use the same amount per acre of Willowood Abamectin 0.7SC in a concentrate spray application that would be required for a full cover dilute spray.

| Willowood Abamectin 0.7SC Application Rate       | Pests Controlled                  | Directions  |
|--|-----------------------------------|---|
| 2.25 -4.25 fl. oz. (0.012-0.023 lb. ai) per acre | Broad mite <sup>1</sup>           | For control of mites, apply Willowood Abamectin 0.7SC in the fall, spring or summer when mites first appear.  |
|  | Citrus bud mite <sup>2</sup>      | For optimal control of citrus bud mites, apply Willowood Abamectin 0.7SC at bud swell.  |
|  | Twospotted spider mite            | Choose lower rate for light infestations and higher rate for heavy infestations.  |
| 1.0 – 4.25 fl. oz. (0.005-0.023 lb. ai) per acre | Citrus rust mite <sup>1</sup>     | For control of mites, apply Willowood Abamectin 0.7SC in the fall, spring or summer when mites first appear. Choose lower rate for light infestations and higher rate for heavy infestations.   |
| 2.25 -4.25 fl. oz. (0.012-0.023 lb. ai) per acre | Citrus thrips <sup>3</sup>        | Apply Willowood Abamectin 0.7SC once economic thresholds have been reached i.e. following the start of egg hatch. For optimal results, treat early to mid-hatch. Treatment must be timed correctly as application will only control the current generation of citrus thrips. Choose lower rate for light infestations and higher rate for heavy infestations.   |
| 1.0 – 4.25 fl. oz. (0.005-0.023 lb. ai) per acre | Citrus leafminer <sup>1</sup>     | Apply Willowood Abamectin 0.7SC to control citrus leafminer and to protect new growth in the fall, spring or summer. When treating with this product by air, apply 10 gallons of application spray mixture per acre minimum. Restriction: do not apply by air in California. Where there are extreme conditions, e.g. high temperatures, high pest populations or where foliage is dense, apply this product in a greater volume of water to ensure adequate coverage. Choose lower rate for light infestations and higher rate for heavy infestations. |
| 2.25 -4.25 fl. oz. (0.012-0.023 lb. ai) per acre | Asian citrus psyllid <sup>1</sup> | Application with this product will only control nymphs and adults that are present at the time of treatment. Apply Willowood Abamectin 0.7SC to control Asian citrus psyllid and to protect newly expanding foliage flush in the fall, spring or summer. Choose lower rate for light infestations and higher rate for heavy infestations.   |

<sup>1</sup> For optimal ground application effectiveness, apply 150-300 gallons per acre of spray mixture combined with 3 gallons per acre of horticultural oil (not dormant oil) at a ground speed of 1-1.5 mph.

<sup>2</sup> For optimal effectiveness, apply 500 gallons per acre minimum of spray mixture combined with 0.5% minimum of horticultural oil (not dormant oil).



<sup>3</sup> For optimal effectiveness, apply 100-250 gallons per acre of spray mixture for outside coverage.

### Restrictions

- Do not apply this product within 7 days of harvest.
- Combine this product with a horticultural spray oil (0.20% minimum) labeled for use in citrus. Do not use a dormant oil. Read and follow the label directions and restrictions for the horticultural spray oil and the directions on all products used in the spray solution.
- Do not combine this product with sticker-type/binder surfactants.
- Apply by ground application only (except citrus leafminer (see below)).
- Citrus leafminer may be treated via ground or air application. For aerial application, use a minimum volume of 10 gallons of application solution per acre. Where there are extreme conditions, e.g. high temperatures, high pest populations or where foliage is dense, apply this product in a greater volume of water to ensure adequate coverage.
- Do not apply this product in citrus nurseries.
- Wait at least 30 days before repeating application of this product or any other foliar-applied abamectin-containing product.
- Do not apply more than 0.023 lb. abamectin per acre per application (4.25 fl. oz. per acre per application) of Willowood Abamectin 0.7SC or any other foliar-applied abamectin-containing product.
- Do not apply more than 0.047 lb. of abamectin per acre per calendar year (8.5 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC). The maximum use rate of 0.047 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- Do not make more than 3 applications of this product or any other foliar-applied abamectin-containing product per calendar year.
- Do not allow livestock to graze in treated orchards.

## COTTON

### For control of spider mites

Mix this product as directed in the table below. Thorough coverage is essential for best results. Inadequate coverage may result in reduced control.

Apply Willowood Abamectin 0.7SC with ground application equipment or aircraft. Best control of spider mites is achieved with ground application equipment. Aerial application spray coverage and the resulting level and duration of control of mites may be less than with ground application.

| Willowood Abamectin 0.7SC Application Rate  | Pests Controlled   | Directions   |
|---|--|--|
| 1.0-1.25 fl. oz. (0.005-0.007 lb. ai) per acre (Early-Season Cotton – See <b>Directions</b> )<br><br>1.75-3.5 fl. oz. (0.010-0.019 lb. ai) per acre | Carmine spider mite<br>Pacific spider mite<br>Strawberry spider mite<br>Twospotted spider mite | To avoid illegal residues, this product must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant. Do not use binder sticker type adjuvants. Refer to the Product Information section of this label as well as the Restrictions below.<br><br>Make application when mites first appear. The use rate depends on the size of the plant and density of the foliage.<br><br>Use the lower rate (1.0-1.25 fl. oz. (0.005-0.007 lb. ai) per acre) only if cotton is early season and under 10 inches in height. Do not use less than 1.0 fl. oz. (0.005 lb. ai) per acre.<br><br><b>States of AZ, CA, ID, NV, OR, UT, WA:</b> Use the lower use rates only on cotton less than 10 inches in height and apply only with ground equipment.<br><br>Repeat application, if needed, to maintain control. Refer to the Restrictions below. |

**Restrictions:**

- Do not apply this product within 20 days of harvest.
- To avoid illegal residues, this product must be mixed with a surfactant approved for use on cotton. Follow the directions for use and any precautions or restrictions on the surfactant label as well as the precautions and restrictions in official spray guides or on product labels.
- Make applications by ground or aerial equipment.
- Do not apply in fewer than 5 gallons of water per acre. Use sufficient volume to ensure thorough coverage.
- Do not apply more than 0.019 lb. abamectin per acre per application (3.5 fl. oz. per acre per application of Willowood Abamectin 0.7SC) or any other foliar-applied abamectin-containing product.
- Wait at least 21 days before making a repeat application.
- Do not apply more than 0.038 lb. abamectin per acre per calendar year (7.0 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC) or any other foliar-applied abamectin-containing product.
- Do not make more than 7 applications of this product or any other foliar-applied abamectin-containing product per calendar year.
- Do not feed or allow livestock to graze treated cotton.

**CUCURBIT VEGETABLES CROP GROUP (CROP GROUP 9)**

**(Chayote, Chinese waxgourd, Citron Melon, Cucumber, Gherkin, Edible Gourd, (includes hyotan, cucuzza, hechima, Chinese okra); *Momordica* spp., (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); Muskmelon (hybrids and/or cultivars of *Cucumis melo*) includes true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin, Summer Squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Winter Squash (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash), Watermelon (includes hybrids and/or varieties of *Citrullus lanatus*)).**

Willowood Abamectin 0.7SC can be applied using ground application equipment or via air application.

For optimal control, thorough coverage of the crop canopy is essential. Reduced control may result if coverage is insufficient.

Willowood Abamectin 0.7SC must be combined with a non-ionic activator type spreading, wetting and /or penetrating adjuvant in order to avoid illegal residues. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution. Do not combine this product with sticker-type/binder surfactants.

| <b>Willowood Abamectin 0.7SC Application Rate</b>  | <b>Pests Controlled</b> | <b>Directions</b>  |
|--|-------------------------|--|
| 1.75-2.5 fl. oz. (0.010-0.014 lb. ai) per acre: low to moderate infestations<br><br>3.5 fl. oz. (0.019 lb. ai) per acre: severe infestations | Leafminers              | Treat with Willowood Abamectin 0.7SC when leafminer flies first appear. Application may be repeated to maintain control as required (refer to Restrictions below). |



|  |              |  |
|--|--------------|--|
|  | Spider Mites | Treat with Willowood Abamectin 0.7SC when spider mites first appear. Application may be repeated to maintain control as required (refer to Restrictions below).<br>For optimal effectiveness, use ground application equipment. Air application results in reduced spray coverage and pest control when compared to ground application. The applicator accepts sole responsibility for the duration and effectiveness of treatment when this product is applied by air.<br>Restriction: Do not apply this product via air in New York state. |
|--|--------------|--|

## Restrictions

- Do not apply this product within 7 days of harvest.
- Combine Willowood Abamectin 0.7SC with a non-ionic activator type spreading, wetting and /or penetrating adjuvant labeled for application in cucurbits, in order to prevent illegal residues. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution.
- Do not combine this product with sticker-type/binder surfactants.
- Do not apply by air in New York State.
- Ground application: Willowood Abamectin 0.7SC must be applied in a minimum of 20 gal. of water per acre.
- Aerial application: Willowood Abamectin 0.7SC must be applied in a minimum of 5 gal. of water per acre.
- Where there are extreme conditions, e.g. high temperatures, high pest populations or where foliage is dense, apply this product in a greater volume of water to ensure adequate coverage.
- Do not apply more than 0.019 lb. abamectin per acre per application (3.5 fl. oz. per acre per application of Willowood Abamectin 0.7SC). The maximum use rate of 0.019 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- Wait at least 7 days before repeating application of this product or any other foliar-applied abamectin-containing product.
- Do not apply more than 0.056 lb. abamectin per acre per calendar year (10.25 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC). This maximum applies to any other product containing abamectin that is applied to foliage.
- Do not make more than 2 sequential applications of this product or any other foliar-applied abamectin-containing product.

## DRY BEANS

**(Including: *Cicer arietinum* (chickpea, garbanzo bean); *Lupinus* spp. (including sweet lupine, white sweet lupine, white lupine, and grain lupine), *Phaseolus* spp. (including kidney bean, lima bean, mung bean, navy bean, pinto bean, snap bean, and waxbean); *Vicia faba* (broad bead, fava bean); *Vigna* spp. (including adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea (see Restriction below), crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, and yardlong bean))**

Restriction: for use on cowpeas that are grown for dry seed only. Treated cowpea forage must not be used for grazing and cowpea hay and forage must not be harvested for use as livestock feed.

For optimal control, thorough coverage of the crop canopy is essential. Reduced control may result if coverage is insufficient.

Willowood Abamectin 0.7SC may be applied via aerial application or via ground application equipment.

Apply this product with ground application equipment for best coverage. Aerial application may result in reduced control of listed pests when compared with ground application.

Willowood Abamectin 0.7SC must be combined with a non-ionic activator type spreading, wetting and /or penetrating adjuvant in order to avoid illegal residues. Read and follow the label directions and restrictions

for the selected adjuvant(s) and the directions on all products used in the spray solution. Do not combine this product with sticker-type/binder surfactants.

| <b>Willowood Abamectin 0.7SC Application Rate</b>                              | <b>Pests Controlled</b>                     | <b>Directions</b>   |
|--|---|---|
| 1.75 – 2.5 fl. oz. (0.010-0.014 lb. ai) per acre: low to moderate infestations | <i>Liriomyza</i> leafminers<br>Spider Mites | Treat with Willowood Abamectin 0.7SC when listed pests first appear. Application may be repeated to maintain control as required (refer to Restrictions below). |
| 3.5 fl. oz. (0.019 lb. ai) per acre: high infestations                         |   |   |

### Restrictions

- Do not apply this product within 7 days of harvest.
- Combine Willowood Abamectin 0.7SC with a non-ionic activator type spreading, wetting and /or penetrating adjuvant labeled for use in dry beans. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution. Do not combine this product with sticker-type/binder surfactants.
- Do not apply by air in New York State.
- Ground application equipment: This product must be applied in a minimum of 10 gallons of water per acre. Ensure there is sufficient application spray volume for thorough coverage.
- Air application: This product must be applied in a minimum of 5 gallons of water per acre. Ensure there is sufficient application spray volume for thorough coverage.
- Where there are extreme conditions, e.g. high temperatures, high pest populations or where foliage is dense, apply this product in a greater volume of water to ensure adequate coverage.
- Do not apply more than 0.019 lb. abamectin per acre per application (3.5 fl. oz. per acre per application of Willowood Abamectin 0.7SC). The maximum use rate of 0.019 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- Do not apply more than 0.056 lb. abamectin per acre per calendar year (10.25 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC). The maximum use rate of 0.056 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- Wait at least 6 days before repeating application of this product.
- Do not make more than 2 sequential applications of this product or any other foliar-applied abamectin-containing product.

### **FRUITING VEGETABLES (EXCEPT CUCURBITS) CROP GROUP (CROP GROUP 8)**

**(Eggplant, Groundcherry, Pepino, Peppers (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo, and Tomato)**

For optimal control, thorough coverage of the crop canopy is essential. Reduced control may result if coverage is insufficient.

Willowood Abamectin 0.7SC may be applied via aerial application or via ground application equipment.

Apply this product with ground application equipment for best coverage. Aerial application may result in reduced control of mites when compared with ground application. The applicator accepts sole responsibility for any reduction in duration and effectiveness of treatment when this product is applied by air.

Willowood Abamectin 0.7SC must be combined with a non-ionic activator type spreading, wetting and /or penetrating adjuvant in order to avoid illegal residues. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution. Do not combine this product with sticker-type/binder surfactants.

Application may be repeated to maintain control as required (refer to Restrictions below).

| Willowood Abamectin 0.7SC Application Rate          | Pests Controlled            | Directions  |
|---|-----------------------------|---|
| 1.75 – 3.5 fl. oz.<br>(0.010-0.019 lb. ai) per acre | Broad mite                  | Apply Willowood Abamectin 0.7SC when mites first appear.  |
|   | Spider mites                | Apply 1.75 fl. oz. (0.010 lb. ai) per acre for low to moderate infestations.  |
|   | Tomato russet mite          | Apply 3.5 fl. oz. (0.019 lb. ai) per acre for severe infestations.  |
|   | <i>Liriomyza</i> leafminers | Apply 1.75 fl. oz. (0.010 lb. ai) per acre for low to moderate infestations.<br>Apply 3.5 fl. oz. (0.019 lb. ai) per acre for severe infestations.  |
|   | <i>Thrips palmi</i>         | Apply Willowood Abamectin 0.7SC when thrips first appear.<br>Apply 1.75 fl. oz. (0.010 lb. ai) per acre for low to moderate infestations.<br>Apply 3.5 fl. oz. (0.019 lb. ai) per acre for severe infestations. |
|   | Tomato psyllid              | Apply 1.75 fl. oz. (0.010 lb. ai) per acre for low to moderate infestations.<br>Apply 3.5 fl. oz. (0.019 lb. ai) per acre for severe infestations.  |
| 3.5 fl. oz. (0.019 lb. ai) per acre                 | Colorado potato beetle      | Apply 1.75 fl. oz. (0.010 lb. ai) per acre for low to moderate infestations.<br>Apply 3.5 fl. oz. (0.019 lb. ai) per acre for severe infestations.  |
|   | Tomato pinworm              | Apply this product during the period from when moth activity is first observed to when newly emerged larvae are present (but no later than this time).  |

### Restrictions

- Do not apply this product within 7 days of harvest.
- Combine Willowood Abamectin 0.7SC with a non-ionic activator type spreading, wetting and /or penetrating adjuvant labeled for use in fruiting vegetables. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution.
- Do not combine this product with sticker-type/binder surfactants.
- Do not apply by air in New York State.
- Willowood Abamectin 0.7SC must not be applied to fruiting vegetables that are grown for transplanting.
- Ground application equipment: This product must be applied in a minimum of 20 gallons of water per acre. Ensure there is sufficient application spray volume for thorough coverage.
- Air application: This product must be applied in a minimum of 5 gallons of water per acre. Ensure there is sufficient application spray volume for thorough coverage.
- Where there are extreme conditions, e.g. high temperatures, high pest populations or where foliage is dense, apply this product in a greater volume of water to ensure adequate coverage.
- Do not apply more than 0.019 lb. abamectin per acre per application (3.5 fl. oz. per acre per application of Willowood Abamectin 0.7SC). The maximum use rate of 0.019 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- Do not apply more than 0.056 lb. abamectin per acre per calendar year (10.25 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC). The maximum use rate of 0.056 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.

- Wait at least 7 days before repeating application of this product or any other foliar-applied abamectin-containing product.
- Do not make more than 2 sequential applications of this product or any other foliar-applied abamectin-containing product.

## GRAPES

Apply Willowood Abamectin 0.7SC with conventional ground spray equipment. Ensure spray equipment is calibrated so that sufficient water is delivered for thorough coverage.

Thorough coverage must be achieved in order to gain control of listed pests. For optimum coverage, apply this product to both sides of each row. Do not spray alternate rows.

Willowood Abamectin 0.7SC must be combined with a non-ionic activator type spreading, wetting and /or penetrating adjuvant in order to avoid illegal residues. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution. Do not combine this product with sticker-type/binder surfactants.

This product has been tested for use in grapes in combination with a non-ionic surfactant. However, it is impossible to test all varieties of grape and in all conditions that may cause crop injury. Read and follow all directions and restrictions in this label and in the adjuvant label.

Repeat applications may be made as required (see Restrictions below)

| <b>Willowood Abamectin 0.7SC Application Rate</b>  | <b>Pests Controlled</b>        | <b>Directions</b>  |
|--|--------------------------------|--|
| 1.75 – 2.5 fl. oz. (0.010-0.014 lb. ai) per acre: low to moderate infestations<br><br>3.5 fl. oz. (0.019 lb. ai) per acre: severe infestations | Pacific spider mite            | Treat with Willowood Abamectin 0.7SC when mites are first observed, but prior to motiles exceeding 5 per leaf. |
|  | Twospotted spider mite         |  |
|  | Willamette spider mite         |  |
|  | Western grapeleaf skeletonizer | Apply this product when larvae first appear. For best effectiveness, treat soon after egg hatch.               |
|  | Variegated leafhopper          | Ensure spray coverage is thorough as this product provides contact knock-down only.                            |

### Restrictions

- Do not apply this product within 28 days of harvest.
- Combine Willowood Abamectin 0.7SC with a non-ionic activator type spreading, wetting and /or penetrating adjuvant labeled for use in grapes. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution.
- Do not combine this product with sticker-type/binder surfactants.
- Apply by ground application only. Do not apply by air.
- Ground application equipment: This product must be applied in a minimum of 50 gallons of water per acre, unless application is with an electro-static sprayer where a minimum of 5 gallons of water per acre must be used. Ensure there is sufficient application spray volume for thorough coverage.
- Do not apply more than 0.019 lb. abamectin per acre per application (3.5 fl. oz. per acre per application of Willowood Abamectin 0.7SC). The maximum use rate of 0.019 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.

- Do not apply more than 0.038 lb. abamectin per acre per calendar year (7 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC). The maximum use rate of 0.038 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- Wait at least 21 days before repeating application of this product or any other foliar-applied abamectin-containing product.
- Do not make more than 2 applications of Willowood Abamectin 0.7SC or any other foliar-applied abamectin-containing product per calendar year.
- Do not graze treated vineyards.

**HERB CROP SUBGROUP (CROP SUBGROUP 19A)**

**(Angelica, Balm, Basil, Borage, Burnet, Camomile, Catnip, Chervil (dried), Chives, Chives (Chinese), Clary, Coriander (leaf), Cilantro (leaf), Costmary, Culantro (leaf), Curry (leaf), Dill weed, Horehound, Hyssop, Lavender, Lemongrass, Lovage (leaf), Marigold, Marjoram (*Origanum* species), Nasturtium, Parsley (dried), Pennyroyal, Rosemary, Rue, Sage, Summer and Winter savory, Sweet bay, Tansy, Tarragon, Thyme, Wintergreen, Woodruff, and Wormwood.)**

Apply Willowood Abamectin 0.7SC with ground application equipment. Treat as a foliar spray and ensure thorough coverage of both upper and lower leaves.

Willowood Abamectin 0.7SC must be combined with a non-ionic activator type spreading, wetting and /or penetrating adjuvant in order to avoid illegal residues. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution. Do not combine this product with sticker-type/binder surfactants.

This product has been tested for use in herbs in combination with a non-ionic activator type spreading, wetting and /or penetrating adjuvants. However, it is impossible to test all varieties of herb and in all conditions that may cause crop injury. Read and follow all directions and restrictions in this label and in the non-ionic surfactant label.

| <b>Willowood Abamectin 0.7SC Application Rate</b>                  | <b>Pests Controlled</b>                     | <b>Directions</b>   |
|--|---|---|
| 1.75 fl. oz. (0.010 lb. ai) per acre: low to moderate infestations | <i>Liriomyza</i> leafminers<br>Spider Mites | Apply Willowood Abamectin 0.7SC when listed pests first appear. Repeat treatment may be carried out as required to maintain control (See Restrictions below). |
| 3.5 fl. oz. (0.019 lb. ai) per acre for severe infestations        |   |   |

**Restrictions**

- Do not apply within 14 days of harvest. For chives, do not apply within 7 days of harvest.
- Combine Willowood Abamectin 0.7SC with a non-ionic activator type spreading, wetting and /or penetrating adjuvant labelled for use in herbs. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution.
- Do not combine this product with sticker-type/binder surfactants.
- Apply by ground application only. Do not apply by air.
- Ground application equipment: This product must be applied in a minimum of 20 gallons of water per acre.
- Do not apply more than 0.019 lb. active ingredient per acre per application (3.5 fl. oz. per acre per application of Willowood Abamectin 0.7SC). The maximum use rate of 0.019 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- Do not apply more than 0.056 lb. abamectin per acre per calendar year (10.25 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC). The maximum use rate of 0.056 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.

- Wait at least 7 days before repeating application of this product or any other foliar-applied abamectin-containing product.
- Do not make more than 2 applications of this product or any other foliar-applied abamectin-containing product per single cutting (harvest).

**HOPS**  
**(Not for use in California)**

Apply Willowood Abamectin 0.7SC with ground application equipment. Treat as a foliar spray and ensure thorough coverage of both upper and lower leaves.

Spray volume will depend on the number and size of plants in the treatment area and foliage density. For optimal control, thorough coverage is essential.

When applying this product as a concentrate spray, the volume of water in the application solution is reduced, but use the same amount of Willowood Abamectin 0.7SC per acre as a dilute spray application.

Willowood Abamectin 0.7SC must be combined with a non-ionic activator type spreading, wetting and /or penetrating adjuvant. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution. Do not combine this product with sticker-type/binder surfactants.

| <b>Willowood Abamectin 0.7SC Application Rate</b> | <b>Pests Controlled</b> | <b>Directions</b>   |
|---|-------------------------|---|
| 1.75 – 3.5 fl. oz. (0.010-0.019 lb. ai) per acre  | Twospotted spider mite  | Apply Willowood Abamectin 0.7SC when the treatment threshold is reached.<br>Apply this product to hops at a height of 6-8 feet (1/2 trellis growth) at a rate of 1.75 – 3.5 fl. oz. (0.010-0.019 lb. ai) in 40 gallons of water minimum per acre.<br>When applying this product to hops exceeding 1/2 trellis growth, use no less than 3.5 fl. oz. (0.019 lb. ai) in 100 gallons of water per acre.<br>Choose lower rate for light infestations and higher rate for heavy infestations. |

**Restrictions**

- Do not apply this product within 28 days of harvest.
- Combine Willowood Abamectin 0.7SC with a non-ionic activator type spreading, wetting and /or penetrating adjuvant labeled for use in hops. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution.
- Do not combine this product with sticker-type/binder surfactants.
- Apply by ground application only. Do not apply by air.
- Do not apply more than 0.019 lb. abamectin per acre per application (3.5 fl. oz. per acre per application of Willowood Abamectin 0.7SC). The maximum use rate of 0.019 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- If a second application is necessary to maintain control, wait at least 21 days before repeating application of this product or any other foliar-applied abamectin-containing product and repeat application of this product or any other foliar-applied abamectin-containing product only after an alternative miticide with a different mode of action has been used.
- Do not apply more than 0.038 lb. abamectin per acre per calendar year (7.0 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC). The maximum use rate of 0.038 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- Do not make more than 2 applications of this product, or any other foliar-applied abamectin-containing product per calendar year.
- Do not allow livestock to graze in treated hops yards.



## LEAFY VEGETABLES (EXCEPT *BRASSICA* VEGETABLES) CROP GROUP (CROP GROUP 4)

(Amaranth (leafy Amaranth, Chinese spinach, tampala); Arugula (Roquette); Cardoon; Celery; Celtuce; Chervil; Chinese celery; Chrysanthemum, edible leaved and garland; Corn salad; Cress, garden and upland (yellow rocket and winter cress); Dandelion; Dock (Sorrel); Endive (escarole); Florence fennel; Lettuce, head and leaf; New Zealand Spinach; Orach; Parsley; Purslane, garden and winter; Radicchio (red chicory); Rhubarb; Spinach; Vine spinach; and Swiss chard.)

For best effectiveness, ensure the crop canopy is thoroughly covered with the treatment solution. Reduced control may result if coverage is insufficient.

Willowood Abamectin 0.7SC may be applied via aerial application or via ground application equipment.

Apply this product with ground application equipment for optimal pest control. Aerial application may result in reduced control of mites when compared with ground application. The applicator accepts sole responsibility for the duration and effectiveness of treatment when this product is applied by air.

Willowood Abamectin 0.7SC must be combined with a non-ionic activator type spreading, wetting and /or penetrating adjuvant in order to prevent illegal residues. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution. Do not combine this product with sticker-type/binder surfactants.

| Willowood Abamectin 0.7SC Application Rate                                     | Pests Controlled                              | Directions   |
|--|---|--|
| 1.75 – 2.5 fl. oz. (0.010-0.014 lb. ai) per acre: low to moderate infestations | Carmine spider mite<br>Twospotted spider mite | Apply Willowood Abamectin 0.7SC when mites are first observed. Repeat treatment may be carried out as required to maintain control (See Restrictions below).       |
| 3.5 fl. oz. (0.019 lb. ai) per acre: severe infestations                       | <i>Liriomyza</i> leafminers                   | Apply Willowood Abamectin 0.7SC when adult flies are first observed. Repeat treatment may be carried out as required to maintain control (See Restrictions below). |

### Restrictions

- Do not apply this product within 7 days of harvest.
- Do not apply by air in New York State.
- Combine Willowood Abamectin 0.7SC with a non-ionic activator type spreading, wetting and /or penetrating adjuvant labeled for use in leafy vegetables. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution.
- Do not combine this product with sticker-type/binder surfactants.
- Do not use this product on leafy vegetables that are grown for transplanting.
- Ground application equipment: This product must be applied in a minimum of 20 gallons of water per acre. Ensure there is sufficient application spray volume for thorough coverage.
- Air application: This product must be applied in a minimum of 5 gallons of water per acre. Ensure there is sufficient application spray volume for thorough coverage.
- Where there are extreme conditions, e.g. high temperatures, high pest populations or where foliage is dense, apply this product in a greater volume of water to ensure adequate coverage.
- Do not apply more than 0.019 lb. abamectin per acre per application (3.5 fl. oz. per acre per application of Willowood Abamectin 0.7SC). The maximum use rate of 0.019 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- Do not apply more than 0.056 lb. abamectin per acre per calendar year (10.25 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC). The maximum use rate of 0.056 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- Wait at least 7 days before repeating application of this product or any other foliar-applied abamectin-containing product.
- Do not make more than 2 sequential applications of this product or any other foliar-applied abamectin-containing product.

**MINT  
(peppermint and spearmint)**

Treat with Willowood Abamectin 0.7SC as a ground or air application.

For optimal control, thorough coverage of the crop canopy is essential. Reduced control may result if coverage is insufficient.

Apply this product with ground application equipment for optimal pest control. Aerial application may result in reduced control of mites when compared with ground application. The applicator accepts sole responsibility for the duration and effectiveness of treatment when this product is applied by air.

Willowood Abamectin 0.7SC must be combined with a non-ionic activator type spreading, wetting and /or penetrating adjuvant in order to avoid illegal residues. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution. Do not combine this product with sticker-type/binder surfactants.

| <b>Willowood Abamectin 0.7SC Application Rate</b> | <b>Pests Controlled</b> | <b>Directions</b>  |
|---|-------------------------|--|
| 1.75 – 2.5 fl. oz. (0.010-0.014 lb. ai) per acre  | Twospotted spider mite  | Apply Willowood Abamectin 0.7SC when mites are first observed.<br>Choose lower rate for light infestations and higher rate for heavy infestations. |

**Restrictions**

- Do not apply this product within 28 days of harvest.
- Combine Willowood Abamectin 0.7SC with a non-ionic activator type spreading, wetting and /or penetrating adjuvant labeled for use in mint. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution.
- Do not combine this product with sticker-type/binder surfactants.
- Do not apply by air in New York State.
- Ground application equipment: This product must be applied in a minimum of 20 gallons of water per acre.
- Air application: This product must be applied in a minimum of 5 gallons of water per acre. Ensure there is sufficient application spray volume for thorough coverage.
- Where there are extreme conditions, e.g. high temperatures, high pest populations or where foliage is dense, apply this product in a greater volume of water to ensure adequate coverage.
- Do not apply more than 0.014 lb. abamectin per acre per application (2.5 fl. oz. per acre per application of Willowood Abamectin 0.7SC). The maximum use rate of 0.014 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- Do not apply more than 0.042 lb. abamectin per acre per calendar year (7.75 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC). The maximum use rate of 0.042 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- Wait at least 7 days before repeating application of this product or any other foliar-applied abamectin-containing product.
- Do not make more than 2 sequential applications of this product or any other foliar-applied abamectin-containing product and do not apply more than 3 applications of this product or any other foliar-applied abamectin-containing product per calendar year.
- Do not allow livestock to graze or feed treated foliage to livestock.



## ONIONS, BULB (CROP SUBGROUP 3-07A)

**(Onion, bulb including daylily, bulb; fritillaria, bulb; garlic, bulb; garlic, great-headed, bulb; garlic, serpent, bulb; lily, bulb; onion, Chinese, bulb; onion, pearl; onion, potato, bulb; shallot, bulb; cultivars, varieties, and/or hybrids of these)**

For optimal control, thorough coverage of the crop canopy is essential. Reduced control may result if coverage is insufficient.

Willowood Abamectin 0.7SC may be applied via aerial application or via ground application equipment.

Apply this product with ground application equipment for optimal pest control. Aerial application may result in reduced control of listed pests when compared with ground application.

Combine this product with a non-ionic activator type wetting, penetrating and/or spreading adjuvant that is labeled for use in bulb onions in order to avoid illegal residues. Do not mix this product with binder/sticker type adjuvants or products containing binder sticker type adjuvants.

| Willowood Abamectin 0.7SC Application Rate                                     | Pests Controlled            | Directions   |
|--|-----------------------------|--|
| 1.75 – 2.5 fl. oz. (0.010-0.014 lb. ai) per acre: low to moderate infestations | <i>Liriomyza</i> leafminers | Apply Willowood Abamectin 0.7SC when adult flies are first observed. Repeat treatment may be carried out as required to maintain control (See Restrictions below).   |
| 3.5 fl. oz. (0.019 lb. ai) per acre: high infestations                         | Thrips                      | Apply Willowood Abamectin 0.7SC when thrips reach the economic threshold, as part of a thrips management program. Repeat treatment may be carried out as required to maintain control (See Restrictions below).<br>Restriction: Do not apply Willowood Abamectin 0.7SC as a rescue treatment for control of thrips |

### Restrictions

- Do not apply Willowood Abamectin 0.7SC as a rescue treatment for control of thrips.
- Do not apply this product within 30 days of harvest.
- Combine Willowood Abamectin 0.7SC with a non-ionic activator type spreading, wetting and /or penetrating adjuvant labeled for use in bulb onions. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution.
- Do not combine this product with sticker-type/binder surfactants.
- Do not apply by air in New York State.
- Ground application equipment: This product must be applied in a minimum of 20 gallons of water per acre.
- Air application: This product must be applied in a minimum of 5 gallons of water per acre. Ensure there is sufficient application spray volume for thorough coverage.
- Where there are extreme conditions, e.g. high temperatures, high pest populations or where foliage is dense, apply this product in a greater volume of water to ensure adequate coverage.
- Do not apply more than 0.019 lb. abamectin per acre per application (3.5 fl. oz. per acre per application of Willowood Abamectin 0.7SC). The maximum use rate of 0.019 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- Do not apply more than 0.056 lb. abamectin per acre per calendar year (10.25 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC). The maximum use rate of 0.056 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- Wait at least 7 days before repeating application.
- Make 2 consecutive applications of this product, then rotate to a chemistry with a different mode of action. Make at least 2 applications of a chemistry with a different mode of action before making additional applications of this product.
- Do not make more than 2 sequential applications of this product or any other foliar-applied abamectin-containing product.

## PEARS (INCLUDING ORIENTAL PEAR TREES)

Apply Willowood Abamectin 0.7SC with ground concentrate or conventional dilute.

Calibrate spray application equipment to deliver sufficient solution for thorough coverage of the target area. Spray volume will depend on the number and size of trees in the treatment area and foliage density. For optimal control, thorough coverage is essential.

Willowood Abamectin 0.7SC must be combined with a horticultural spray oil as directed in order to avoid illegal residues (not a dormant oil). Do not use sticker-type/binder adjuvants. Read and follow the label directions and restrictions for the horticultural spray oil and the directions on all products used in the spray solution.

### Pears: Dilute Spray Application

Application rates per 100 gallons are based on an application spray volume of 400 gallons per acre. Where horticultural spray (not a dormant oil) is used, apply at a rate of 1 gallon per acre or 0.25% of application solution.

| <b>Willowood Abamectin 0.7SC Application Rate</b>                        | <b>Pests Controlled</b>   | <b>Directions</b>  |
|--|---|--|
| 0.5 – 1.0 fl. oz. (0.003-0.005 lb. ai) per 100 gallons of spray solution | European red mite<br>McDaniel spider mite<br>Pear psylla<br>Pear rust mite<br>Twospotted spider mite<br>Yellow mite | Treat the target area with Willowood Abamectin 0.7SC when insect/spider mite thresholds are reached. Make a second treatment if required in order to maintain control of target pests. Refer to Restrictions (below). Choose lower rate for light infestations and higher rate for heavy infestations. |

### Pears: Concentrate Spray Application

In order to calculate the use rate for concentrate spray application:

1. Calculate the amount needed for a full cover dilute application.
2. Use the same amount of Willowood Abamectin 0.7SC in a concentrate spray application that would be required for a dilute spray to the same grove/orchard. Note: this may result in a use rate of <2.25 fl. oz. (0.012 lb. ai) per acre on small trees.

Where horticultural spray (not a dormant oil) is used, apply at a rate of a 1 gallon per acre minimum.

| <b>Willowood Abamectin 0.7SC Application Rate</b>                          | <b>Pests Controlled</b>  | <b>Directions</b>  |
|--|--|--|
| 2.25 – 4.25 fl. oz. (0.012-0.023 lb. ai) per 100 gallons of spray solution | European red mite<br>McDaniel spider mite<br>Tentiform leafminer<br>Twospotted spider mite<br>White apple leafhopper | Treat the target area with Willowood Abamectin 0.7SC when insect/spider mite thresholds are reached. Make a second treatment if required in order to maintain control of target pests. Refer to Restrictions (below). Choose lower rate for light infestations and higher rate for heavy infestations. |

### Restrictions

- Do not apply this product within 28 days of harvest.
- Combine Willowood Abamectin 0.7SC with a horticultural spray oil labeled for use in pears, but not a dormant oil. Read and follow the label directions and restrictions for the horticultural spray oil and the directions on all products used in the spray solution.
- Do not use sticker-type/binder adjuvants.

- Applying the combination of Willowood Abamectin 0.7SC with a horticultural spray fewer than 14 days before or after an application of Captan®/any product containing sulfur can result in phytotoxicity and crop loss.
- Apply by ground application only.
- Do not apply by air.
- Apply in a minimum of 40 gal. of water/A.
- Do not apply more than 0.023 lb. abamectin per acre per application (4.25 fl. oz. per acre per application of Willowood Abamectin 0.7SC). The maximum use rate of 0.023 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- Wait at least 21 days before repeating application of this product or any other foliar-applied abamectin-containing product.
- Do not make more than 2 applications of this product or any other foliar-applied abamectin-containing product per calendar year.
- Do not apply more than 0.047 lb. abamectin per acre per calendar year (8.5 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC). This maximum applies to any other product containing abamectin that is applied to foliage.
- Do not allow livestock to graze in treated orchards.

**STONE FRUIT CROP GROUP (CROP GROUP 12)**

**(Apricot; cherry (sweet and tart); nectarine; peach; plum; plum (chickasaw, damson, and Japanese); plumcot, and prune (fresh))**

Apply Willowood Abamectin 0.7SC with ground concentrate or conventional dilute.

Calibrate spray application equipment to deliver sufficient solution for thorough coverage of the target area. Spray volume will depend on the number and size of trees in the treatment area and foliage density. For optimal control, thorough coverage is essential.

Willowood Abamectin 0.7SC must be combined with a horticultural spray oil (not a dormant oil) or a non-ionic activator type spreading, wetting and /or penetrating adjuvant in order to avoid illegal residues. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution. Do not combine this product with sticker-type/binder surfactants.

Combining this product with a horticultural oil (not a dormant oil) may improve performance, however, it may also raise the possibility of a phytotoxic reaction in fruit and/or foliage.

**Stone Fruit: Dilute Spray Application**

Application rates per 100 gallons are based on an application spray volume of 400 gallons per acre. Where horticultural spray is used, apply at a minimum rate of 0.25% and a minimum of 1 gallon per acre in the application solution.

| <b>Willowood Abamectin 0.7SC Application Rate</b>                        | <b>Pests Controlled</b>  | <b>Directions</b>  |
|--|--|--|
| 0.5 – 1.0 fl. oz. (0.003-0.005 lb. ai) per 100 gallons of spray solution | European red mite<br>Pacific spider mite<br>Twospotted spider mite | Treat the target area with Willowood Abamectin 0.7SC when mites are first observed. Make a second treatment if required in order to maintain control of target pests. Refer to Restrictions (below).<br>Choose lower rate for light infestations and higher rate for heavy infestations. |

**Stone Fruit: Concentrate Spray Application**

In order to calculate the use rate for concentrate spray application:

1. Calculate the amount needed for a full cover dilute application.

- Use the same amount of Willowood Abamectin 0.7SC in a concentrate spray application that would be required for a dilute spray to the same grove/orchard. Note: this may result in a use rate of <2.25 fl. oz. per acre on small trees.

| <b>Willowood Abamectin 0.7SC Application Rate</b> | <b>Pests Controlled</b>  | <b>Directions</b>  |
|---|--|--|
| 2.25 – 4.25 fl. oz. (0.012-0.023 lb. ai) per acre | European red mite<br>Pacific spider mite<br>Twospotted spider mite | Treat the target area with Willowood Abamectin 0.7SC when mites are first observed. Make a second treatment if required in order to maintain control of target pests. Refer to Restrictions (below).<br>Choose lower rate for light infestations and higher rate for heavy infestations. |

### Restrictions

- Do not apply within 21 days of harvest.
- Apply by ground application only.
- Do not apply via aerial application.
- Combine Willowood Abamectin 0.7SC with a horticultural spray oil (not a dormant oil) or a non-ionic activator type spreading, wetting and /or penetrating adjuvant labeled for use in the stone fruit crop group. Read and follow the label directions and restrictions for the selected adjuvant(s) and the directions on all products used in the spray solution.
- Do not combine this product with sticker-type/binder surfactants.
- Apply in a minimum of 40 gal. of water/A.
- Do not apply more than 0.023 lb. abamectin per acre per application (4.25 fl. oz. per acre per application of Willowood Abamectin 0.7SC). The maximum use rate of 0.023 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- If a second application is needed, wait at least 21 days before repeating application of this product or any other foliar-applied abamectin-containing product.
- Do not make more than 2 applications of Willowood Abamectin 0.7SC or any other foliar-applied abamectin-containing product per calendar year.
- Do not apply more than 0.047 lb. abamectin per acre per calendar year (8.5 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC). This maximum applies to any other product containing abamectin that is applied to foliage.
- Do not allow livestock to graze in treated orchards.

## STRAWBERRIES

### For control of Strawberry spider mite, Twospotted spider mite, and Carmine spider mite

Mix this product as directed in the table below. Apply via ground application equipment as a foliar spray and ensure thorough coverage on upper and lower leaf surfaces. Adjust spray volume and nozzle placement to ensure maximum coverage of tops and undersides of leaves.

| <b>Willowood Abamectin 0.7SC Application Rate</b> | <b>Pests Controlled</b>   | <b>Directions</b>  |
|---|---|--|
| 3.5 fl. oz. (0.019 lb. ai) per acre               | Strawberry spider mite<br>Twospotted spider mite<br>Carmine spider mite | To avoid illegal residues, this product must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant. Do not use binder sticker type adjuvants. Refer to the Product Information section of this label as well as the Restrictions below.<br><br>Make two applications 7-10 days apart when mites first appear. Repeat this application sequence, if needed, to maintain control. Refer to Restrictions below. |

**Restrictions:**

- Do not apply within 3 days of harvest.
- To avoid illegal residues, this product must be mixed with a surfactant approved for use on strawberries. Do not use binder or sticker type adjuvants. Follow the directions for use and any precautions or restrictions on the surfactant label as well as the precautions and restrictions in official spray guides or on product labels.
- Make applications by ground equipment only. Do not apply with aircraft.
- For resistance management purposes, do not use in strawberry nurseries.
- Do not apply in less than 50 gallons of water per acre with conventional ground application equipment. When using electro-static sprayers do not apply in less than 10 gallons of water per acre.
- Do not apply more than 0.019 lb. abamectin per acre per application (3.5 fl. oz. per acre per application of Willowood Abamectin 0.7SC) or any other foliar-applied abamectin-containing product.
- Wait at least 21 days after the second application before repeating application.
- Do not apply more than 0.077 lb. abamectin per acre per calendar year (14 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC) or any other foliar-applied abamectin-containing product.
- Do not make more than 4 applications of Willowood Abamectin 0.7SC or any other foliar-applied abamectin-containing product per calendar year.

**TREE NUTS CROP GROUP (CROP GROUP 14) AND PISTACHIO**

**(Almond, beech nut, Brazil nut, butternut, cashew, chestnut, chinquapin, filbert (hazelnut), hickory nut, macadamia nut, pecan, and walnuts (black and English))**

Apply Willowood Abamectin 0.7SC with ground concentrate or conventional dilute.

Calibrate spray application equipment to deliver sufficient solution for thorough coverage of the target area. Spray volume will depend on the number and size of trees in the treatment area and foliage density. For optimal control, thorough coverage is essential.

Willowood Abamectin 0.7SC must be combined with a horticultural spray oil as directed in order to avoid illegal residues (not a dormant oil). Read and follow the label directions and restrictions for the horticultural spray oil and the directions on all products used in the spray solution. Do not combine this product with sticker-type/binder surfactants.

**Tree Nuts: Dilute Spray Application**

Application rates per 100 gallons are based on an application spray volume of 400 gallons per acre.

Where horticultural spray is used, apply at a rate of 0.25% of application solution in the dilute spray mix or 1 gallon per acre.

| <b>Willowood Abamectin 0.7SC Application Rate</b>                      | <b>Pests Controlled</b>  | <b>Directions</b>   |
|--|--|---|
| 0.5-1.0 fl. oz. (0.003-0.005 lb. ai) per 100 gallons of spray solution | European red mite<br>Pacific spider mite<br>Strawberry spider mite<br>Twospotted spider mite | Apply Willowood Abamectin 0.7SC when mites are first observed. Residual mite control is more effective with spray deposits on new leaves when compared to old leaves. A second treatment may be made as required in order to maintain control. See Restrictions below. Choose lower rate for light infestations and higher rate for heavy infestations. |

## Tree Nuts: Concentrate Spray Application

In order to calculate the use rate for concentrate spray application:

1. Calculate the amount needed for a full cover dilute application.
2. Use the same amount of Willowood Abamectin 0.7SC in a concentrate spray application that would be required for a dilute spray to the same grove/orchard. Note: this may result in a use rate of <2.25 fl. oz. (0.012 lb. ai) per acre on small trees.

Where horticultural spray is used, apply at a rate of a 1 gallon per acre minimum.

| <b>Willowood Abamectin 0.7SC Application Rate</b> | <b>Pests Controlled</b>  | <b>Directions</b>   |
|---|--|---|
| 2.25 – 4.25 fl. oz. (0.012-0.023 lb. ai) per acre | European red mite<br>Pacific spider mite<br>Strawberry spider mite<br>Twospotted spider mite | Apply Willowood Abamectin 0.7SC when mites are first observed. Residual mite control is more effective with spray deposits on new leaves when compared to old leaves. A second treatment may be made as required in order to maintain control. See Restrictions below. Choose lower rate for light infestations and higher rate for heavy infestations. |

## Restrictions

- Do not apply within 21 days of harvest.
- Combine Willowood Abamectin 0.7SC with a horticultural spray oil labeled for use in tree nuts and pistachio, as directed, but not a dormant oil. Read and follow the label directions and restrictions for the horticultural spray oil and the directions on all products used in the spray solution.
- Do not combine this product with sticker-type/binder surfactants.
- Apply by ground application only.
- Do not apply via aerial application.
- Make applications in a minimum of 40 gallons of water per acre.
- Do not apply more than 0.023 lb. abamectin per acre per application (4.25 fl. oz. per acre per application of Willowood Abamectin 0.7SC). The maximum use rate of 0.023 lb. of active ingredient per acre applies to any other product containing abamectin that is applied to foliage.
- If a second application is needed, wait at least 21 days before repeating application of this product or any other foliar-applied abamectin-containing product.
- Do not apply more than 0.047 lb. abamectin per acre per calendar year (8.5 fl. oz. per acre per calendar year of Willowood Abamectin 0.7SC). This maximum applies to any other product containing abamectin that is applied to foliage.
- Do not make more than 2 applications of Willowood Abamectin 0.7SC or any other foliar-applied abamectin-containing product per calendar year.
- Do not allow livestock to graze in treated groves/orchards.

## TUBEROUS AND CORM VEGETABLES CROP SUBGROUP

### (CROP SUBGROUP 1C)

**(Arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; canna, edible; cassava (bitter and sweet); chayote (root); chufa; dasheen; ginger; leren; potato; sweet potato; taniar; turmeric; yam bean; and yam (true))**

For best effectiveness, calibrate sprayers to ensure sufficient water is delivered and the crop canopy is thoroughly covered with the treatment solution. Reduced control may result if coverage is insufficient.

Apply Willowood Abamectin 0.7SC as a ground application or via aerial.

For optimal effectiveness, apply Willowood Abamectin 0.7SC as a ground application. Aerial application is less effective than ground application in controlling mites. If Willowood Abamectin 0.7SC is applied by air, the applicator is solely responsible for any reduced control of mites or any reduction in the duration of control of mites.



Willowood Abamectin 0.7SC must be combined with a non-ionic activator type wetting, penetrating and/or spreading adjuvant that is labeled for use in tuberous and corm vegetables (crop subgroup 1C) in order to avoid illegal residues. Do not mix this product with binder/sticker type adjuvants or products containing binder sticker type adjuvants.

| <b>Willowood Abamectin 0.7SC Application Rate</b>  | <b>Pests Controlled</b>     | <b>Directions</b>   |
|--|-----------------------------|---|
| 1.75 – 2.5 fl. oz. (0.010-0.014 lb. ai) per acre: low to moderate infestations<br><br>3.5 fl. oz. (0.019 lb. ai) per acre: severe infestations | Colorado potato beetle      | Apply Willowood Abamectin 0.7SC when larvae are present after 50% of eggs have hatched. If a further application is required, limit treatment to a single generation of Colorado Potato Beetles per crop.<br>Restriction: do not exceed a maximum of 2 applications of Willowood Abamectin 0.7SC per crop (See Restrictions below). |
|  | <i>Liriomyza</i> leafminers | Apply Willowood Abamectin 0.7SC when adult flies first appear. Repeat treatment may be carried out as required to maintain control (See Restrictions below).  |
|  | Spider Mites                | Apply Willowood Abamectin 0.7SC when mites are first observed. Repeat application as required to maintain control (see Restrictions below.)   |
|  | Potato psyllid              | See <b>Use Restrictions</b> below.  |

#### **Use Restrictions – Tuberous and Corm Vegetables Crop Subgroup**

- Do not apply this product within 14 days of harvest.
- Combine this product with a non-ionic activator type wetting, penetrating and/or spreading adjuvant that is labeled for use in crops in the tuberous and corm vegetables crop subgroup.
- Do not mix this product with binder/sticker type adjuvants or products containing binder sticker type adjuvants.
- Do not apply via aerial application in New York State.
- Ground application equipment: This product must be applied in a minimum of 20 gallons of water per acre.
- Air application: This product must be applied in a minimum of 5 gallons of water per acre.
- Where there are extreme conditions, e.g. high temperatures, high pest populations or where foliage is dense, apply this product in a greater volume of water to ensure adequate coverage.
- Do not apply more than 0.019 lb. abamectin per acre per application (3.5 fl. oz. per acre per application of Willowood Abamectin 0.7SC).
- Wait at least 7 days before repeating application of this product or any other foliar-applied abamectin-containing product.
- Do not make more than 2 sequential applications of this product or any other foliar-applied abamectin-containing product.
- Spider mite and Colorado potato beetle: do not exceed a maximum of 0.038 lb. abamectin per acre per crop (7 fl. oz. per acre per crop of Willowood Abamectin 0.7SC). This maximum applies to any other product containing abamectin that is applied to foliage.
- Leafminer and Potato psyllid: do not exceed a maximum of 0.056 lb. abamectin per acre per crop (10.25 fl. oz. per acre per crop of Willowood Abamectin 0.7SC). This maximum applies to any other product containing abamectin that is applied to foliage.
- Do not allow livestock to graze or feed treated foliage to livestock.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

### **PESTICIDE STORAGE:**

Store in a tightly closed container in a cool, dry place.

### **PESTICIDE DISPOSAL:**

Pesticide waste may be hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control agency, or the Hazardous Waste representative at the nearest EPA regional Office for guidance.

### **CONTAINER HANDLING:**

**Nonrefillable Container (five gallons or less):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Nonrefillable Container (greater than five gallons):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Willowood, LLC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Willowood, LLC and Seller harmless for any claims relating to such factors.

Willowood, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Willowood, LLC, and Buyer and User assume the risk of any such use. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, WILLOWOOD, LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

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[EPA APPROVAL DATE]