UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

April 6, 2022

Wess Lovell
Sr. Regulatory Associate
Vive Crop Protection Inc.
500 Westover Dr. #10198
Sandford, NC 27330

Subject: Notification per PRN 98-10 – To delete an error in the rate breakdown for dry beans.
Product Name: Averland FC
EPA Registration Number: 89118-10
Application Date: April 1, 2022
Decision Number: 583008

Dear Wess Lovell:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

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.

If you have any questions, please contact Ralph Narain by phone at 202-566-2853, or via email at Narain.Ralph@epa.gov.

Sincerely,

Gene Benbow, Product Manager 7
Invertebrate & Vertebrate Branch 3
Registration Division (7505P)
Office of Pesticide Programs

NOTE: {***Information in {braces} is informational for the reviewer***}
[Bracketed text is optional/interchangeable]

RESTRICTED USE PESTICIDE

DUE TO TOXICITY TO NON-TARGET INVERTEBRATES, 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.

NOTIFICATION

89118-10

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

04/06/2022

ABAMECTIN	GROUP 6	INSECTICIDE

Averland® FC

Active Ingredient: ……	**By Wt**
Abamectin (CAS No. 71751-41-2) ……	8.0 %
Other Ingredients: ……	92.0 %
TOTAL ……	100.0 %

This product contains 0.7 pounds of active ingredient per gallon

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.)

This label must be in the possession of the user at the time of application.
See inside booklet for additional precautionary information and directions for use.

EPA Reg. No. 89118-10 **EPA Est. XXX-YY-Z**

Net Contents: 1, 2.5, 15, 30, 130, or 265 Gallons

Vive Crop Protection Inc.
500 Westover Dr. #10198
Sanford, NC 27330
1-888-760-0187

FIRST AID	
If swallowed	• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If inhaled	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If on skin or clothing	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.

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 adsorbents (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.

EMERGENCY INFORMATION
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

For information on this pesticide product (including general health concerns or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378 Monday through Friday, 8:00 AM to 12:00 PM Pacific Standard Time. In the event of a medical emergency, call your poison control center at 1-800-222-1222.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Warning. May be fatal if swallowed. May be fatal if inhaled. Do not breathe spray mist. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants;
- Shoes plus socks;
- Chemical resistant gloves made of: barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinylchloride (PVC) ≥ 14 mils or viton ≥ 14 mils;
- Wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any R or P filter OR a NIOSH-approved elastomeric particulate respirator with any R or P filter OR a NIOSH-approved powered air purifying respirator with HE filters.

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 Control Statements

When handlers use closed systems or enclosed cabs 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 with 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 after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into 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 if bees are visiting 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.

SURFACE WATER ADVISORY

This product may impact surface water quality due to runoff of rainwater. 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.

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.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow to come into contact with oxidizing agents. Hazardous chemical reaction may occur.

DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE

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

AGRICULTURAL USE REQUIREMENTS

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.

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 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 in this labeling about personal protective equipment, restricted-entry intervals, and notification to works. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
Exception(s):

- If the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.
- 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.

For early entry into 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, wear:

- Coveralls.
- Shoes plus socks.
- Chemical resistant gloves made of: barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinylchloride (PVC) ≥ 14 mils or viton ≥ 14 mils.

Failure to follow directions and precautions on this label may result in crop injury, poor pest control, and/or illegal residues.

PRODUCT RESTRICTIONS

Use Restrictions

- Do not use to treat plants grown for transplanting. This product is not for use in nurseries, plant propagation houses, or greenhouses by commercial transplant producers on plants being grown for transplanting.
- Do not use to treat crops grown in greenhouse for harvest unless specified in the specific crop use section of this label.
- Do not use on residential landscapes or in residential areas.
- Do not apply by aircraft in New York State.
- To avoid illegal residues while applying by broadcast spray, Averland FC MUST ALWAYS be applied with a non-phytotoxic, non-ionic activator type wetting, spreading, and/or penetrating spray adjuvant or horticultural oil (not a dormant oil). Refer to the Application and Mixing Instructions section for more details.

Rotational Crop Restrictions

This product does not have any rotation (plant-back) restriction. Areas treated by Averland FC may be replanted with any crop as soon as practical following the last application.

GENERAL INSTRUCTIONS

Averland FC contains the active ingredient abamectin in an optimized suspension concentrate formulation that is compatible with liquid fertilizers. Averland FC provides activity against many important crop parasitic nematodes as well as listed insects and mites. Averland FC mixes well with liquid fertilizer, hard water, micronutrients and other crop protection products. Averland FC can be applied by sprinkler chemigation to suppress thrips. Averland FC as an in-furrow treatment provides suppression of nematodes.

Resistance Management

Averland FC contains the active ingredient abamectin which is a GROUP 6 INSECTICIDE/MITICIDE/NEMATICIDE and is effective against a variety of nematodes, mites, and insects.

Some insect, mite, or nematode species are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities or universities for details.

For resistance management, Averland FC contains a Group 6 insecticide/miticide/nematicide. Any insect, mite, or nematode population may contain individuals that are inherently resistant to Averland FC and other Group 6 insecticide/miticide/nematicides. The resistant individuals may eventually dominate the insect, mite, or nematode population if this group of insecticide/miticide/nematicides are used repeatedly in the same fields. Appropriate resistance management strategies should be followed.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect or mite may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

To delay insecticide/miticide/nematicide resistance, take the following steps:

- Rotate the use of Averland FC or other Group 6 insecticide/miticide/nematicides within a growing season, or among growing seasons, with different groups that control the same pests.

- Use tank mixtures with insecticide/miticide/nematicides 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/miticide/nematicides 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 Vive Crop Protection at 1-888-760-0187. You can also contact your pesticide distributor or university extension specialist to report resistance.

Maintaining Susceptibility to These Classes of Chemistry

- Avoid using Group 6 insecticide/miticide/nematicides exclusively for season long control in insect or mite species with more than one generation per crop season.
- For insect, mite, or nematode species with successive or overlapping generations, apply Averland FC or other Group 6 insecticide/miticide/nematicides using a “treatment window” approach. A treatment window is a period of time as defined by the state of crop development and/or the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, there may either be single or consecutive applications (seed treatment, soil, foliar, unless otherwise stated) of the Group 6 insecticide/miticide/nematicides. Do not exceed the maximum Averland FC allowed per year.
- Following a treatment window of Group 6 insecticide/miticide/nematicides, rotate to a treatment window of effective products with a different mode of action before making additional applications of Group 6 insecticide/miticide/nematicides.
- A treatment windows rotation, along with other IPM practices for the crop and use area, is considered an effective strategy for preventing or delaying a pest’s ability to develop resistance to these classes of chemistry.
- If resistance is suspected, do not reapply Averland FC or other Group 6 insecticide/miticide/nematicides.

Other Insect Resistance Management (IRM) Practices

- Incorporating IPM techniques into your insect, mite, or nematode control program.
- Monitoring treated insect or mite populations for loss of field efficacy.
- Using tank-mixtures or premixes with insecticide/miticide/nematicides from a different target site of action group as long as the involved products are all registered for the same crop outlet and effective rates are applied.

APPLICATION AND MIXING INSTRUCTIONS

Averland FC is a suspension concentrate formulation. Shake or agitate well prior to measuring or pouring. Like most suspension concentrate formulations, Averland FC will thicken upon standing for long periods of time. Averland FC will revert back to an easily flowable fluid after a brief shake.

Averland FC disperses finely in liquid fertilizer and micronutrient products without prior dilution with water. However, due to the wide variability in the composition and consistency of liquid fertilizers, it is recommended a jar-test be performed.

Averland FC insecticide is designed for at-plant, and foliar applications, and must be diluted with liquid fertilizer and/or water before application. Refer to Specific Use Directions for Crop Plants for pest control or suppression instructions.

Do not use strainer (nozzle screens) with a mesh designation greater than 50.

Make sure that application equipment is thoroughly cleaned and properly calibrated prior to application and thoroughly cleaned after application.

Averland FC can be mixed directly with water and/or liquid starter or pop-up fertilizer. Fill tank half full with water or liquid fertilizer and begin agitation. Add Averland FC according to crop use rate and fill up tank to intended final volume. While pouring, avoid direct contact of Averland FC with the container wall to achieve best dispersion. Mix thoroughly to disperse and suspend the Averland FC. Maintain agitation during application and in any nurse tank or storage tank.

Do not prepare more mixture than is required for the treatment. For best results, use immediately after mixing. If the mixtures settles, agitate the mixture and assess to ensure thorough re-mixing prior to application.

The rate of application should be chosen within the label ranges for the crop being treated based on expected pest pressure. This can be determined by history and scouting of the field and whether weather conditions are expected to be favorable. Use lower rates when pest pressure is expected to be light and use higher rates when pest pressure is expected to be heavy. Application rates are generally higher in arid climates.

Unless otherwise directed by registered supplemental labeling, follow the Directions for Use in each crop group section.

Application Rate Summary Table

fl oz Product/A	lb abamectin/A	Treated Acres per Gallon Product	Treated Acres per 2.5 Gallon Jug of Product
1.00	0.005	128	320
1.25	0.007	102	256
1.75	0.010	73	183
2.25	0.012	57	142
2.5	0.014	51	128
3.5	0.019	37	91
4.0	0.022	32	80
4.25	0.023	30	75
6.0	0.033	21	53

Adjuvant Requirements

To avoid illegal residues while applying by broadcast spray, Averland FC **MUST ALWAYS** be applied with a non-phytotoxic, non-ionic activator type wetting, spreading, and/or penetrating spray adjuvant or horticultural oil (not a dormant oil) when specified in the specific crop instructions. Non-ionic activator type wetting, spreading, and/or penetrating spray adjuvants include:

- non-ionic surfactants (NIS) with at least 75% surface active agent,
- crop oil concentrates (COC),
- vegetable oil concentrates (VOC),
- methylated seed/vegetable oils (MSO),
- organosilicones (OS) with at least 15% emulsifiers/surfactants,
- blends of these non-ionic activator type spray adjuvants.

Spray adjuvants must be compatible with Averland FC and must be used at concentrations specified on the spray adjuvant product label directions for use for the targeted crop unless more specific directions are provided in the Directions for Use for individual crops on this label. **Do not use binder or sticker type adjuvants because these types of adjuvants may reduce translaminar movement of the active ingredient into the plant.**

Tank Mixture Application

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Averland FC may be applied in tank mixtures with adjuvants, micronutrients, and other products approved for use on registered crops. Jar tests (or other similar methods) to ensure compatibility between products should be conducted before use.

When an adjuvant is used, it is recommended to use an adjuvant that meets the standards of the Council of Producers and Distributors of Agrotechnology (CPDA) adjuvant certification.

Tank Mixture Order of Addition Recommendation

This is the general recommendation for order of addition. Always follow any specific order of addition instructions on all the tank-mix partner labels. Jar tests (or other similar methods) to ensure order of addition compatibility between products should be conducted before use.

1. Fill tank ⅓ to ½ full with mixing diluent (water, liquid fertilizer, etc.).
2. Begin tank agitation before adding any tank-mix partners.
3. Add any water conditioner/anti-foam/compatibility agents.
4. Add any products packaged in water-soluble packaging and allow to completely dissolve/disperse.
5. Add any wettable powders/flowables (DC, DS, GR, SG, SP).
6. Add any microencapsulated suspensions (ME).
7. Add any liquids and solubles (SC, SU), including Averland FC.
8. Add any emusifiable concentrates (EC).
9. Add any adjuvants.

Jar Test Procedure

Test potential mixing partners, including adjuvants, for mixing compatibility using a standard jar test or other similar method and for crop safety prior to use on a crop.

The following jar test procedure is recommended to evaluate compatibility: Following any product specific instructions for order of addition, pour the recommended proportions of the products into a suitable container, mix thoroughly and allow to stand at least twenty (20) minutes. If the combination remains mixed, or can be re-mixed readily, the mixture is considered physically compatible. If the combination does not remain mixed, or cannot be re-mixed readily, the products are not physically compatible and should not be tank-mixed together.

Do not prepare more mixture than is required for the treatment. For best results, use immediately after mixing. If the mixtures settles, agitate the mixture and assess to ensure thorough re-mixing prior to application.

INSTRUCTIONS FOR AT-PLANT APPLICATIONS

Averland FC can be mixed with liquid starter or pop-up fertilizer for use at-plant as an in-furrow spray or dribble. Refer to this label's specific use directions to determine if an at-plant application is labeled for a given crop and pest. Follow label recommendations in regards to liquid fertilizer use rate and seed safety.

As with any insecticide, care must be taken to minimize exposure of Averland FC to honey bees and other pollinators.

At Plant In-Furrow Application Rates (fl oz product per 1000 row ft)

Fl oz product per acre	Average Row Spacing (inches)							
	15"	**20"**	**22"**	**24"**	**30"**	**32"**	**34"**	**36"**
3.5	0.10	0.13	0.15	0.16	0.20	0.21	0.23	0.24
4.0	0.11	0.15	0.17	0.18	0.23	0.24	0.26	0.28
4.5	0.13	0.17	0.19	0.21	0.26	0.28	0.29	0.31
5.0	0.14	0.19	0.21	0.23	0.29	0.31	0.33	0.34
5.5	0.16	0.21	0.23	0.25	0.32	0.34	0.36	0.38
6.0	0.17	0.23	0.25	0.28	0.34	0.37	0.39	0.41

IMPORTANT: The linear application rate applied affects the duration and degree of control to a large extent. Linear application rates in the shaded region in the above table may not provide early season protection to the seed and seedling. Follow all crop specific use instructions regarding maximum use rates.

~ Linear Row Feet Calculation: 522,720 ÷ row spacing (in inches) = Row feet per acre

INSTRUCTIONS FOR BROADCAST APPLICATIONS

Averland FC can be applied as a spray to foliage but must be applied with an adjuvant (see the **Mixing Instructions** section). Refer to the directions for specific crops to determine if such applications are labeled for a given crop and, if so, for which insect pests.

Do not apply when conditions favor drift from the area intended for treatment; follow instructions under the **Spray Drift Management** section.

INSTRUCTIONS FOR CHEMIGATION APPLICATIONS

- For application by sprinkler irrigation (chemigation) to onion, bulb; onion, green; and tuberous and corm for the suppression of thrips only.
- Sprinkler irrigation application only.
- Only apply Averland FC by chemigation instructions as specified in specific crop direction.

- Only apply Averland FC through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move. Do not apply Averland FC though any other type of irrigation system.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water or liquid fertilizer.
- If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- Follow rates and application timings given in the specific crop instructions. Consult your local State Extension Service or other local experts for recommendations on the use of adjuvants, diluents, rates, and mixing instructions. The efficacy of Averland FC (or other abamectin products) as a sprinkler irrigation application should be proved effective, through university and/or extension field trials.
- The chemical supply tank and injector system should be thoroughly cleaned and flushed with clean water.
- Do not apply when wind speed favors drift beyond the area intended for treatment or non-uniform distribution of the treatment solution.

Instructions for Chemigation

- The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Any alternatives to the above mentioned required safety devices must conform to the list of EPA-approved alternative devices.
- Do not apply when wind speed favors drift beyond the area intended for treatment or non-uniform distribution of the treatment solution.

Instructions for Public Water Systems

- Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regulatory serves an average of at least 25 individuals daily at least 60 days out of the year.
- Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

- The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve location on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Any alternatives to the above mentioned required safety devices must conform to the list of EPA-approved alternative devices.
- Do not apply when wind speed favors drift beyond the area intended for treatment or non-uniform distribution of the treatment solution.

Instructions for Irrigation Systems

- Application by sprinkler irrigation (chemigation) may only be used for onion, bulb; onion, green; and tuberous and corm for the suppression of thrips only.
- Follow rates and application timings given in the specific crop instructions. Consult your local State Extension Service or other local experts for recommendations on the use of adjuvants, diluents, rates, and mixing instructions. The efficacy of Averland FC (or other abamectin products) as a sprinkler irrigation application should be proved effective, through university and/or extension field trials.
- Check the irrigation system to ensure uniform application of final spray to all areas. Thorough coverage of foliage is required for good control. Good agitation in the pesticide supply tank should be maintained prior to and during the entire application period.
- Apply by injecting the recommended rate of Averland FC into the irrigation system using a metering device that will introduce a constant flow and by distributing the product to the target area in 0.1 acre-inch of water. In general, use the least amount of water required for proper distribution and coverage. It is recommended that the product be injected into the main irrigation line ahead of a right angle turn in the line to ensure adequate dispersion or mixing in the irrigation water. Once the application is completed, flush the entire irrigation and injection system with clean water before stopping the system.
- In addition to the above recommendations, if application is being made during a normal irrigation set of a stationary sprinkler, the recommended rate of Averland FC for the area covered should be injected into the system only during the end of the irrigation set for sufficient time to provide adequate coverage and product distribution.

SPRAY DRIFT

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.

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 spray 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 spray during temperature inversion.

SPRAY DRIFT ADVISORIES

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

Do not allow this product to drift onto non-target areas. Drift may result in illegal residues or injury to non-target species. Risk of exposure to sensitive areas can be reduced by applying this product when the wind is away from the sensitive area.

Buffer Restrictions and Vegetative Strip Requirements

- Do not apply with ground application equipment within 25 ft of lakes, reservoirs, rivers, permanent streams, marshes, pot holes, natural ponds, estuaries, or commercial fish farm ponds.
- Do not cultivate within 25 ft of the aquatic area to allow growth of a vegetative filter strip.

Temperature and Humidity

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

- Avoid application when the temperature is high and/or the humidity is low. These conditions increase the evaporation of spray droplets and the likelihood of drift to aquatic areas.

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.
- Do not apply when the weather conditions may cause drift.

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 spray drift.

Controlling Droplet Size - Aircraft

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

Aerial Application Spray Drift Advisories

The following drift management requirements must be followed to avoid off-target movement from aerial applications to agricultural field crops.

- Nozzle Direction - Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.
- Nozzle Orientation - Orienting nozzles so that the spray is released parallel to the air stream produces larger droplets than other orientations and is the recommended practice.
- Number of Nozzles - Use the minimum number of nozzles that provides uniform coverage.
- Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid-stream nozzles oriented straight back produce the largest droplets and the lowest drift.
- Boom Length - For some use patterns, reducing the effective boom length to less than 75% of the wingspan or rotor length may further reduce drift without reducing swath width.
- Swath Adjustment - When applications are made with a cross wind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind.
- Release Height - Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind. Higher release heights increase the potential for spray drift.

Ground Application Spray Drift Advisories

Observe the following precautions when using ground application to spray tree crops or hops in the vicinity of aquatic areas such a lakes, reservoirs, permanent streams, marshes, potholes, natural ponds, estuaries, or commercial fish ponds:

- Do not apply when weather conditions favor drift to aquatic areas.
- Do not apply within 110 ft upwind of aquatic areas or when wind speed is above 8 mph.
- Spray the last 3 rows windward of aquatic areas using nozzles on one side only, with spray directed away from the aquatic areas.
- Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.

Boom Height - Ground Boom

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

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.

Boom-less Ground Applications

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

SPECIFIC USE DIRECTIONS FOR CROP PLANTS

APPLE

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
European Red Mite[1] McDaniel Spider Mite[1] Tentiform Leafminer[1] Two-Spotted Spider Mite[1] White Apple Leafhopper[1] Yellow Mite[1]	2.25 - 4.25 (0.012 - 0.023)

Broadcast Instructions:

- May be applied by ground only.
- Adjust the final spray volume based on the size and number of trees per acre and the density of the foliage. Apply in a minimum of 40 gallons per acre of final spray by conventional ground equipment to achieve thorough coverage. Thorough coverage is required for good control.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.
- Applications of this product in combination with horticultural spray oil less than 14 days before or after applying Captan® or any other sulfur-containing products may result in phytotoxicity and crop loss.

Specific Pest Instructions:

- [1]**Insects, mites:** Apply when mite or insect thresholds are reached. Repeat application as needed to maintain control following applicable restrictions below.

Specific Use Restrictions:

- **Application Method:** Ground applications are permitted. Do not apply by air.
- **Application Timing:** Do not apply from onset of flowering until after petal fall is complete.
- **Maximum Single Application:** Do not apply more than 4.25 fl oz/A (0.023 lb a.i./A) per application.
- **Annual Maximum:**

- Do not exceed 8.5 fl oz Averland FC/A/calendar year
- Do not exceed 0.046 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).

- **Application Interval:** Do not make applications less than 21 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 28 days of harvest.
- **Resistance Management:** Do not make more than 2 foliar applications of all abamectin containing products per year.
- **Grazing:** Do not graze livestock in treated orchards.

AVOCADO

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
Avocado Thrips (*Scirtothrips perseae*)[1] Persea Mite (*Oligonychus perseae*)	2.25 - 4.25 (0.012 - 0.023)

Broadcast Instructions:

- May be applied by ground or by aircraft.
- Adjust the final spray volume based on the size and number of trees per acre and the density of the foliage. Apply in a minimum of 100 gallons per acre of final spray by ground or 50 gallons per acre by air to achieve thorough coverage. Thorough coverage is required for good control.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.
- When using a horticultural spray oil, or any tank mix adjuvant, follow all precautions and restrictions on the adjuvant label. Before using horticultural spray oil above 20%, treat a small test area before making a large-scale application.

Specific Pest Instructions:

- [1]Thrips: Make the first application when immature thrips are first observed, but before there are more than 5 immature thrips per leaf/fruit. Make a second application if needed to maintain control following applicable restrictions below. Aerial applications may result in lower levels and duration of control compared to ground applications.

Specific Use Restrictions:

- **State Restrictions:** Do not apply by aircraft in New York State.
- **Application Method:** Ground or aerial applications are permitted.
- **Maximum Single Application:** Do not apply more than 4.25 fl oz/A (0.023 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 8.5 fl oz Averland FC/A/calendar year
  - Do not exceed 0.046 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 30 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 14 days of harvest.
- **Resistance Management:** Do not make more than 2 sequential foliar applications of all abamectin containing products per year.
- **Grazing:** Do not graze livestock in treated areas or feed treated foliage to livestock.

BEAN, DRY

Bean (*Lupinus* spp.) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); bean (*Phaseolus* spp.) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); bean (*Vigna* spp.) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea (dry seed only), crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); broad bean (fava bean); chickpea (garbanzo bean)

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
Liriomyza Leafminer[1] Spider Mite[1]	1.75 - 3.5 (0.010 - 0.019)

Broadcast Instructions:

- May be applied by ground or by aircraft.
- Adjust the final spray volume based on the pest populations, foliage density, or application conditions such as high temperature. Apply in a minimum of 10 gallons per acre of final spray by ground or 5 gallons per acre by air to achieve thorough coverage. Thorough coverage is required for good control.
- ~~Use 1.71 - 2.57 fl oz/A for low to moderate infestations and 2.79 - 3.43 fl oz/A for high infestations.~~

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.
- When using a horticultural spray oil, or any tank mix adjuvant, follow all precautions and restrictions on the adjuvant label. Before using horticultural spray oil above 20%, treat a small test area before making a large-scale application.
- Aerial applications may result in lower levels and duration of control compared to ground applications.

Specific Pest Instructions:

- [1]**Leafminers, spider mites:** Make the first application when adult leafminer flies or spider mites are first observed. Repeat application as needed to maintain control following applicable restrictions below.

Specific Use Restrictions:

- **State Restrictions:** Do not apply by aircraft in New York State.
- **Application Method:** Ground or aerial applications are permitted.
- **Maximum Single Application:** Do not apply more than 3.5 fl oz/A (0.019 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 8.5 fl oz Averland FC/A/calendar year
  - Do not exceed 0.046 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 6 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 7 days of harvest.
- **Resistance Management:** Do not make more than 2 sequential foliar applications of all abamectin containing products per year.
- **Grazing:** Do not graze livestock in cowpea treated areas or feed treated cowpea forage or hay to livestock.

CELERIAC (CELERY ROOT)

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
Two-Spotted Spider Mite[1]	3.5 (0.019)

Broadcast Instructions:

- May be applied by ground only.

- Adjust the final spray volume based on the pest populations, foliage density, or application conditions such as high temperature. Apply in a minimum of 20 gallons per acre of final spray by ground equipment to achieve thorough coverage. Thorough coverage is required for good control.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.

Specific Pest Instructions:

- [1]Two-Spotted Spider Mite: Make the first application when mites are first observed. Repeat application as needed to maintain control following applicable restrictions below.

Specific Use Restrictions:

- **Application Method:** Ground applications are permitted. Do not apply by air.
- **Maximum Single Application:** Do not apply more than 3.5 fl oz/A (0.019 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 10.25 fl oz Averland FC/A/calendar year
  - Do not exceed 0.056 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 7 days of harvest.
- **Resistance Management:** Do not make more than 2 sequential foliar applications of all abamectin containing products per year.

CITRUS FRUIT CROP GROUP 10-10

Australian desert lime; Australian finger lime; Australian round lime; brown river finger lime; calamondin; citron; citrus hybrids; grapefruit; Japanese summer grapefruit; kumquat; lemon; lime; Mediterranean mandarin; mount white lime; New Guinea wild lime; orange, sour; orange, sweet; pummelo; Russel River lime; satsuma mandarin; sweet lime; tachibana orange; Tahiti lime; tangelo; tangerine (Mandarin); tangor; trifoliate orange; uniq fruit; including all cultivars, varieties, and/or hybrids of these

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
Citrus Leafminer[4] Citrus Rust Mite	1.0 - 4.25 (0.005 - 0.023)
Asian Citrus Psyllid[1] Broad Mite[2] Citrus Bud Mite[3] Citrus Thrips[5] Two-Spotted Spider Mite	2.25 - 4.25 (0.012 - 0.023)

Broadcast Instructions:

- May be applied by ground or by aircraft. Aerial applications are only permitted for control of citrus leafminers and Asian citrus psyllid. Apply by ground application for all other pests.
- Adjust the final spray volume based on the pest populations, foliage density, or application conditions such as high temperature. Apply in a minimum of 25 gallons per acre of final spray by ground or 10 gallons per acre by air to achieve thorough coverage. Thorough coverage is required for good control.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.
- Aerial applications may result in lower levels and duration of control compared to ground applications. Use higher rates within the range for aerial applications.

Specific Pest Instructions:

- **[1]Asian citrus psyllid:** Make application in the spring, summer, and/or fall directed towards newly expanding foliage.

- [2]**Broad mite:** Make application when mites first appear during spring, summer, and/or fall.
- [3]**Citrus bud mite:** Make application during bud swell.
- [4]**Citrus leafminer:** Make application in the spring, summer, and/or fall directed towards new growth.
- [5]**Citrus thrips:** Make application after economic thresholds have been reached, preferably early to mid-hatch after the egg hatch has begun. Only the current generation will be controlled and application must be timed correctly.

Specific Use Restrictions:

- **State Restrictions:** Do not apply by aircraft in New York State.
- **Location Restrictions:** Do not use in citrus nurseries.
- **Application Method:**
  - Ground or aerial applications are permitted. Aerial applications are only permitted for control of citrus leafminers and Asian citrus psyllid. Apply by ground application for all other pests.
- **Application Timing:** Do not apply from onset of flowering until after petal fall is complete.
- **Maximum Single Application:** Do not apply more than 4.25 fl oz/A (0.023 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 8.5 fl oz Averland FC/A/calendar year
  - Do not exceed 0.046 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 30 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 7 days of harvest.
- **Resistance Management:** Do not make more than 3 foliar applications of all abamectin containing products per year.
- **Grazing:** Do not graze livestock in treated areas or feed treated foliage to livestock.

CORN

Field corn; popcorn; sweet corn; corn grown for seed

SOIL PESTS	USE RATES	
	fl oz product/A (lb a.i./A)	**fl oz product/1000 row ft (oz a.i./1000 row ft) @ 30" rows**
Suppression: Nematode	4.0 – 6.0 (0.022 - 0.033)	0.23 - 0.34 (0.020 - 0.030)

At-Plant / Soil Applied Instructions

For early season seed and seedling protection apply in the following method:

- Apply in-furrow in a minimum of 5 gallons per acre of final volume as a spray or dribble directed on the seed during planting.
- Linear application rate is based on 30" rows. For different row spacing consult the Linear Application Rate Conversion Chart in the Instructions for At-Plant Applications section. In all cases do not exceed the maximum per acre use restriction.

Specific Use Restrictions:

- **[Not for use in California]**
- **Application Method:** Do not apply shallower than 1 inch depth.
- **Maximum Single Application:** Do not apply more than 6.0 fl oz/A (0.033 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 6.0 fl oz Averland FC/A/calendar year.
  - Do not exceed 0.033 lb abamectin/A/calendar year as a soil application including seed and in-furrow treatments.

COTTON

SOIL PESTS	USE RATES	
	fl oz product/A (lb a.i./A)	**fl oz product/1000 row ft (oz a.i./1000 row ft) @ 36" rows**
Suppression: Nematodes	3.5 (0.019)	0.24 (0.021)

At-Plant / Soil Applied Instructions

For early season seed and seedling protection apply in the following method:

- Apply in-furrow in a minimum of 5 gallons per acre of final volume as a spray or dribble directed on the seed during planting.
- Linear application rate is based on 36" rows. For different row spacing consult the Linear Application Rate Conversion Chart in the Instructions for At-Plant Applications section. In all cases do not exceed the maximum per acre use restriction.

FOLIAR PESTS	USE RATES
	fl oz product/A (lb a.i./A)
Carmine Spider Mite[1] Pacific Spider Mite[1] Strawberry Spider Mite[1] Two-Spotted Spider Mite[1]	Early Season 1.0 - 1.25 (0.005 - 0.007) Mid-Season / Lay-By 1.75 - 3.5 (0.010 - 0.019)

Broadcast Instructions:

- May be applied by ground or by aircraft.
- Adjust the final spray volume based on the pest populations, foliage density, or application conditions such as high temperature. Apply in a minimum of 5 gallons per acre of final spray by ground or 5 gallons per acre by air to achieve thorough coverage. Thorough coverage is required for good control.
- Use 1.0 - 1.25 fl oz/A for early season cotton and 1.75 - 3.5 fl oz/A for later season cotton.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.
- Aerial applications may result in lower levels and duration of control compared to ground applications.

Specific Pest Instructions:

- **[1]Mites:** Make the first application when mites are first observed. Repeat application as needed to maintain control following applicable restrictions below.

Specific Use Restrictions:

- **State Restrictions**:
  - [Not for use in California]
  - Do not apply by aircraft in New York State.
  - West of the Rocky Mountains only use the lower rates on cotton less than 10 inches in height and only apply with ground equipment.
- **Application Method:** Ground or aerial applications are permitted. Do not apply through any type of irrigation systems.
- **Maximum Single Application:** Do not apply more than 3.5 fl oz/A (0.019 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 7.0 fl oz Averland FC/A/calendar year

- Do not exceed 0.038 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 21 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 20 days of harvest.
- **Resistance Management:** Do not make more than 2 foliar applications of all abamectin containing products per year.
- **Grazing:** Do not graze livestock in treated areas or feed treated foliage to livestock.

CUCURBIT VEGETABLES CROP GROUP 9

Chayote (fruit); Chinese waxgourd (Chinese preserving melon); citron melon; cucumber; gerkin; gourd, edible (hyotan, cucuzza, hechima, Chinese okra); Momordica spp. (balsam apple, balsam pear, bitter melon, Chinese cucumber); muskmelon (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; squash, summer (crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); squash, winter (butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon; including all cultivars, varieties, and/or hybrids of these

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
Liriomyza Leafminer[1] Spider Mite[1]	1.75 - 3.5 (0.010 - 0.019)

Broadcast Instructions:

- May be applied by ground or by aircraft.
- Adjust the final spray volume based on the pest populations, foliage density, or application conditions such as high temperature. Apply in a minimum of 20 gallons per acre of final spray by ground or 5 gallons per acre by air to achieve thorough coverage. Thorough coverage is required for good control.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.
- Aerial applications may result in lower levels and duration of control compared to ground applications.

Specific Pest Instructions:

- [1]***Liriomyza*** **leafminers, spider mites:** Make the first application when mites are first observed. Repeat application as needed to maintain control following applicable restrictions below.

Specific Use Restrictions:

- **State Restrictions:** Do not apply by aircraft in New York State.
- **Application Method:** Ground or aerial applications are permitted.
- **Maximum Single Application:** Do not apply more than 3.5 fl oz/A (0.019 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 10.25 fl oz Averland FC/A/calendar year
  - Do not exceed 0.056 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 7 days of harvest.
- **Resistance Management:** Do not make more than 2 sequential foliar applications of all abamectin containing products per year.

FRUITING VEGETABLE (EXCEPT CUCURBITS) CROP GROUP 8

Eggplant; groundcherry; pepino; pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); tomatillo; tomato

FOLIAR PESTS (except in commercial greenhouses)	USE RATES fl oz product/A (lb a.i./A)
Broad Mite[2] Colorado Potato Beetle *Liriomyza* Leafminer[1] Spider Mite[1, 2] *Thrips palmi*[2, 3] Tomato Psyllid Tomato Russet Mite[2]	1.75 - 3.5 (0.010 - 0.019)
Tomato Pinworm[4]	3.5 (0.019)

Broadcast Instructions:

- May be applied by ground or by aircraft.
- Adjust the final spray volume based on the pest populations, foliage density, or application conditions such as high temperature. Apply in a minimum of 20 gallons per acre of final spray by ground or 5 gallons per acre by air to achieve thorough coverage. Thorough coverage is required for good control.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.
- Aerial applications may result in lower levels and duration of control compared to ground applications.

Specific Pest Instructions:

- [1]**Leafminers, spider mites:** Make the first application when adult leafminer flies or spider mites are first observed. Repeat application as needed to maintain control following applicable restrictions below.
- [2]**Broad mite; spider mites; *Thrips palmi*; russet mites:** Apply when mites or thrips first appear.
- [3]***Thrips palmi*:** When populations are above threshold apply an effective knockdown product for thrips before spraying this product.
- [4]**Tomato pinworm:** Applications can be made from the time of moth activity up to the time that newly emerged larvae are present. Do not apply later than when newly emerged larvae are present.

Specific Use Restrictions:

- **State Restrictions:** Do not apply by aircraft in New York State.
- **Application Method:** Ground or aerial applications are permitted.
- **Maximum Single Application:** Do not apply more than 3.5 fl oz/A (0.019 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 10.25 fl oz Averland FC/A/calendar year
  - Do not exceed 0.056 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 7 day of harvest.
- **Resistance Management:** Do not make more than 2 sequential foliar applications of all abamectin containing products per year.

GRAPE

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
Pacific Spider Mite[1] Two-Spotted Spider Mite[1]	1.75 - 3.5 (0.010 - 0.019)

Variegated Leafhopper[2] Western Grape Leafhopper[2] Western Grapeleaf Skeletonizer[3] Willamette Spider Mite[1]	
Broadcast Instructions: • May be applied by ground only. • Adjust the final spray volume based on the pest populations, foliage density, or application conditions such as high temperature. Apply in a minimum of 50 gallons per acre of final spray by conventional ground equipment or a minimum of 5 gallons per acre of final spray by electro-static spraying to achieve thorough coverage. Thorough coverage is required for good control. • Do not spray alternate rows, must be applied to both side of the row for maximum coverage **Precautions:** • When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.	
Specific Pest Instructions: • **[1]Spider mites:** Make application when mites first appear but before motiles exceed 5 per leaf. • **[2]Leafhoppers:** This product provides contact knock-down only for leafhoppers. • **[3]Western grapeleaf skeletonizer:** For optimal control apply shortly after egg hatch when larvae are first observed.	
Specific Use Restrictions: • **Application Method:** Ground applications are permitted. Do not apply by air. • **Application Timing:** Do not apply from onset of flowering until after petal fall is complete. • **Maximum Single Application:** Do not apply more than 3.5 fl oz/A (0.019 lb a.i./A) per application. • **Annual Maximum:** o Do not exceed 7.0 fl oz Averland FC/A/calendar year o Do not exceed 0.038 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar). • **Application Interval:** Do not make applications less than 21 days apart. • **Pre-Harvest Interval (PHI):** Do not apply within 28 days of harvest. • **Resistance Management:** Do not make more than 2 sequential foliar applications of all abamectin containing products per year. • **Grazing:** Do not graze livestock in treated areas or feed treated foliage to livestock.	

HERB SUBGROUP 19A

Angelica; balm; basil; borage; burnet; camomile; catnip; chervil (dried); chive; chive, Chinese, clary; coriander (cilantro or Chinese parsley) (leaf); costmary; cilantro (leaf); curry (leaf); dillweed; horehound; hyssop; lavender; lemongrass; lovage (leaf); marigold; marjoram (sweet or annual marjoram, wild marjoram, oregano, pot marjoram); nasturtium; parsley (dried); pennyroyal; rosemary; rue; sage; savory, summer and winter; sweet bay (bay leaf); tansy; tarragon; thyme; wintergreen; woodruff; wormwood

FOLIAR PESTS	**USE RATES** **fl oz product/A** **(lb a.i./A)**
Liriomyza Leafminer[1] Spider Mite[1]	1.75 - 3.5 (0.010 - 0.019)
Broadcast Instructions: • May be applied by ground only. • Adjust the final spray volume based on the pest populations, foliage density, or application conditions such as high temperature. Apply in a minimum of 20 gallons per acre of final spray by ground to achieve thorough coverage. Thorough coverage is required for good control. **Precautions:**	

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.

Specific Pest Instructions:

- **[1]Leafminers, spider mites:** Make the first application when adult leafminer flies or spider mites are first observed. Repeat application as needed to maintain control following applicable restrictions below.

Specific Use Restrictions:

- **Application Method:** Ground applications are permitted. Do not apply by air.
- **Application Timing:** Do not apply from onset of flowering until after petal fall is complete.
- **Maximum Single Application:** Do not apply more than 3.5 fl oz/A (0.019 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 10.25 fl oz Averland FC/A/calendar year
  - Do not exceed 0.056 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):**
  - Chives: Do not apply within 7 days of harvest.
  - All other crops: Do not apply within 14 days of harvest.
- **Resistance Management:**
  - Do not make more than 2 foliar applications of all abamectin containing products per single harvest and cutting.

HOPS

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
Two-Spotted Spider Mite[1]	1.75 - 3.5 (0.010 - 0.019)

Broadcast Instructions:

- May be applied by ground only.
- Apply in a minimum of 40 gallons per acre of final spray up to the ½ trellis growth stage. Apply in a minimum of 100 gallons per acre of final spray beyond the ½ trellis growth stage. Thorough coverage of the upper and lower leaves is required for good control.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.

Specific Pest Instructions:

- **[1]Two-Spotted Spider Mite:** Make the first application when two-spotted spider mites reach treatment thresholds.

Specific Use Restrictions:

- [**State Restrictions:** Not for use in California.]
- **Application Method:** Ground applications are permitted. Do not apply by air.
- **Maximum Single Application:** Do not apply more than 3.5 fl oz/A (0.019 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 7.0 fl oz Averland FC/A/calendar year
  - Do not exceed 0.038 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 21 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 28 days of harvest.
- **Resistance Management:** Do not make more than 2 foliar applications of all abamectin containing products per year.
- **Grazing:** Do not graze livestock in treated hop yards.

LEAFY VEGETABLES (EXCEPT BRASSICA VEGETABLES) CROP GROUP 4

Amaranth (leafy amaranth, Chinese spinach, tampala); arugula (Roquette); cardoon; celery; celery, Chinese; celtuce; chervil; chrysanthemum, edible-leaved; chrysanthemum, garland; corn salad; cress, garden; cress, upland (yellow rocket, winter cress); dandelion; dock (sorrel); endive (escarole); fennel, Florence (finochio); lettuce, head and leaf; orach; parsley; purslane, garden; purslane, winter; radicchio (red chicory); rhubarb; spinach; spinach, New Zealand; spinach, vine (Malabar spinach, Indian spinach); swiss chard

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
Carmine Spider Mite[1] *Liriomyza* Leafminer[1] Two-Spotted Spider Mite[1]	1.75 - 3.5 (0.010 - 0.019)

Broadcast Instructions:

- May be applied by ground or by aircraft.
- Adjust the final spray volume based on the pest populations, foliage density, or application conditions such as high temperature. Apply in a minimum of 20 gallons per acre of final spray by ground or 5 gallons per acre by air to achieve thorough coverage. Thorough coverage is required for good control.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.
- When using a horticultural spray oil, or any tank mix adjuvant, follow all precautions and restrictions on the adjuvant label. Before using horticultural spray oil above 20%, treat a small test area before making a large-scale application.
- Aerial applications may result in lower levels and duration of control compared to ground applications.

Specific Pest Instructions:

- [1]**Leafminers, spider mites:** Make the first application when adult leafminer flies or spider mites are first observed. Repeat application as needed to maintain control following applicable restrictions below.

Specific Use Restrictions:

- **State Restrictions:** Do not apply by aircraft in New York State.
- **Application Method:** Ground or aerial applications are permitted.
- **Maximum Single Application:** Do not apply more than 3.5 fl oz/A (0.019 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 10.25 fl oz Averland FC/A/calendar year
  - Do not exceed 0.056 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 7 days of harvest.
- **Resistance Management:** Do not make more than 2 sequential foliar applications of all abamectin containing products per year.

MINT (PEPPERMINT, SPEARMINT)

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
Two-Spotted Spider Mite[1]	1.75 - 2.5 (0.010 - 0.014)

Broadcast Instructions:

- May be applied by ground or by aircraft.
- Adjust the final spray volume based on the pest populations, foliage density, or application conditions such as high temperature. Apply in a minimum of 20 gallons per acre of final spray by ground or 5 gallons per acre by air to achieve thorough coverage. Thorough coverage is required for good control.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.
- When using a horticultural spray oil, or any tank mix adjuvant, follow all precautions and restrictions on the adjuvant label. Before using horticultural spray oil above 20%, treat a small test area before making a large-scale application.
- Aerial applications may result in lower levels and duration of control compared to ground applications.

Specific Pest Instructions:

- [1]**Spider mites:** Make the first application when spider mites are first observed.

Specific Use Restrictions:

- **State Restrictions:** Do not apply by aircraft in New York State.
- **Application Method:** Ground or aerial applications are permitted.
- **Maximum Single Application:** Do not apply more than 2.5 fl oz/A (0.014 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 7.75 fl oz Averland FC/A/calendar year
  - Do not exceed 0.042 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 28 days of harvest.
- **Resistance Management:**
  - Do not make more than 2 sequential foliar applications of all abamectin containing products per year.
  - Do not make more than 3 foliar applications of all abamectin containing products per year.
- **Grazing:** Do not graze livestock in treated areas or feed treated foliage to livestock.

ONION, BULB SUBGROUP 3-07A

Daylily, bulb; fritillaria, bulb; garlic, bulb; garlic, great-headed, bulb; garlic, serpent, bulb; lily, bulb; onion, bulb; onion, Chinese, bulb; onion, pearl; onion, potato, bulb; shallot, bulb; cultivars, varieties, and/or hybrids of these.

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
Liriomyza Leafminer[1] Thrips[2]	1.75 - 3.5 (0.010 - 0.019)

Broadcast Instructions:

- May be applied by ground or by aircraft. May be applied by overhead sprinkler chemigation for suppression of thrips.
- Adjust the final spray volume based on the pest populations, foliage density, or application conditions such as high temperature. Apply in a minimum of 20 gallons per acre of final spray by ground or 5 gallons per acre by air to achieve thorough coverage. Thorough coverage is required for good control.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.
- Binder or sticker type adjuvants may reduce insect control.
- Aerial applications and chemigation may result in lower levels and duration of control compared to ground applications.

Specific Pest Instructions:

- [1]**Leafminers:** Make the first application when adult leafminer flies are first observed. Repeat application as needed to maintain control following applicable restrictions below.
- [2]**Thrips:** Make application after economic thresholds have been reached. Repeat application as needed to maintain control following applicable restrictions below. Do not use Averland FC as a rescue treatment for thrips control.

Specific Use Restrictions:

- **State Restrictions:** Do not apply by aircraft in New York State.
- **Application Method:**
  - Ground or aerial applications are permitted.
  - Overhead chemigation applications are permitted for the suppression of thrips.
- **Maximum Single Application:** Do not apply more than 3.5 fl oz/A (0.019 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 10.25 fl oz Averland FC/A/calendar year
  - Do not exceed 0.056 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 30 days of harvest.
- **Resistance Management:**
  - Do not make more than 2 sequential foliar applications of all abamectin containing products per year.
  - Make 2 consecutive foliar applications of an abamectin containing product, then rotate to a chemistry with a different mode of action.
  - Make at least 2 applications with a different mode of action before making additional foliar applications of any abamectin containing products.
  - Do not use Averland FC as a rescue treatment for thrips control.

PEAR; PEAR, ASIAN

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
European Red Mite[1] McDaniel Spider Mite[1] Pear Psylla[1] Pear Rust Mite[1] Two-Spotted Spider Mite[1] Yellow Mite[1]	2.25 - 4.25 (0.012 - 0.023)

Broadcast Instructions:

- May be applied by ground only.
- Adjust the final spray volume based on the size and number of trees per acre and the density of the foliage. Apply in a minimum of 40 gallons per acre of final spray by conventional ground equipment to achieve thorough coverage. Thorough coverage is required for good control.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.
- Applications of this product in combination with horticultural spray oil less than 14 days before or after applying Captan® or any other sulfur-containing products may result in phytotoxicity and crop loss.

Specific Pest Instructions:

- [1]**Insects, mites:** Apply when mite or insect thresholds are reached. Repeat application as needed to maintain control following applicable restrictions below.

Specific Use Restrictions:

- **Application Method:** Ground applications are permitted. Do not apply by air.
- **Application Timing:** Do not apply from onset of flowering until after petal fall is complete.
- **Maximum Single Application:** Do not apply more than 4.25 fl oz/A (0.023 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 8.5 fl oz Averland FC/A/calendar year
  - Do not exceed 0.046 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 21 days apart.

- **Pre-Harvest Interval (PHI):** Do not apply within 28 days of harvest.
- **Resistance Management:** Do not make more than 2 foliar applications of all abamectin containing products per year.
- **Grazing:** Do not graze livestock in treated orchards.

PISTACHIO

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
European Red Mite[1] Pacific Spider Mite[1] Strawberry Spider Mite[1] Two-Spotted Spider Mite[1]	2.25 - 4.25 (0.012 - 0.023)

Broadcast Instructions:

- May be applied by ground only.
- Adjust the final spray volume based on the size and number of trees per acre and the density of the foliage. Apply in a minimum of 40 gallons per acre of final spray by conventional ground equipment to achieve thorough coverage. Thorough coverage is required for good control.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.

Specific Pest Instructions:

- **[1]Mites:** Apply when mites first appear. Repeat application as needed to maintain control following applicable restrictions below. Spray deposits on newer leaves have better residual mite control than spray deposits on older leaves.

Specific Use Restrictions:

- **Application Method:** Ground applications are permitted. Do not apply by air.
- **Application Timing:** Do not apply from onset of flowering until after petal fall is complete.
- **Maximum Single** Application: Do not apply more than 4.25 fl oz/A (0.023 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 8.5 fl oz Averland FC/A/calendar year
  - Do not exceed 0.046 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 21 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 21 days of harvest.
- **Resistance Management:** Do not make more than 2 foliar applications of all abamectin containing products per year.
- **Grazing:** Do not graze livestock in treated orchards.

POTATO

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
Colorado Potato Beetle[1] *Liriomyza* Leafminer[2] Potato Psyllid Spider Mite[2]	1.75 - 3.5 (0.010 - 0.019)
Suppression: Thrips[3]	3.5 (0.019)

Broadcast Instructions:

- May be applied by ground or by aircraft. May be applied by overhead sprinkler chemigation for suppression of thrips.
- Adjust the final spray volume based on the pest populations, foliage density, or application conditions such as high temperature. Apply in a minimum of 20 gallons per acre of final spray by ground or 5 gallons per acre by air to achieve thorough coverage. Thorough coverage is required for good control.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.
- Binder or sticker type adjuvants may reduce insect control.
- Aerial applications and chemigation may result in lower levels and duration of control compared to ground applications.

Specific Pest Instructions:

- [1]**Colorado potato beetle:** Make the first application after approximately 50% of the egg masses have hatched and early instar larvae are present. If 2 applications are needed, limit the two applications to a single generation of Colorado potato beetle per crop.
- [2]**Leafminers, spider mites:** Make the first application when adult leafminer flies or spider mites are first observed. Repeat application as needed to maintain control following applicable restrictions below.
- [3]**Thrips:** Make applications as a part of a thrips management program when economic thresholds have been reached. Repeat application as needed to maintain control following applicable restrictions below.

Specific Use Restrictions:

- **State Restrictions:**
  - [Not for use in California]
  - Do not apply by aircraft in New York State.
- **Application Method:**
  - Ground or aerial applications are permitted.
  - Overhead chemigation applications are permitted for the suppression of thrips.
  - Do not use as a rescue treatment for thrips control.
- **Maximum Single Application:** Do not apply more than 3.5 fl oz/A (0.019 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 10.25 fl oz Averland FC/A/calendar year.
  - Do not exceed 0.056 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 14 days of harvest.
- **Resistance Management:**
  - Do not make more than 2 sequential foliar applications of all abamectin containing products per year.
  - Do not apply more than 2 foliar applications of all abamectin containing products to a single generation of Colorado potato beetle or within any 30-day period.
  - Do not use Averland FC as a rescue treatment for thrips control.
- **Grazing:** Do not graze livestock in treated areas or feed treated foliage to livestock.

STONE FRUIT CROP GROUP 12

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

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
European Red Mite[1] Pacific Spider Mite[1] Two-Spotted Spider Mite[1]	2.25 - 4.25 (0.012 - 0.023)
Broadcast Instructions:	

- May be applied by ground only.
- Adjust the final spray volume based on the size and number of trees per acre and the density of the foliage. Apply in a minimum of 40 gallons per acre of final spray by conventional ground equipment to achieve thorough coverage. Thorough coverage is required for good control.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.

Specific Pest Instructions:

- **[1]Mites:** Apply when mites first appear. Repeat application as needed to maintain control following applicable restrictions below.

Specific Use Restrictions:

- **Application Method:** Ground applications are permitted. Do not apply by air.
- **Application Timing:** Do not apply from onset of flowering until after petal fall is complete.
- **Maximum Single Application:** Do not apply more than 4.25 fl oz/A (0.023 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 8.5 fl oz Averland FC/A/calendar year
  - Do not exceed 0.046 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 21 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 21 days of harvest.
- **Resistance Management:** Do not make more than 2 foliar applications of all abamectin containing products per year.
- **Grazing:** Do not graze livestock in treated orchards.

STRAWBERRY

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
Carmine Spider Mite[2] Strawberry Spider Mite[2] Two-Spotted Spider Mite[2] Suppression: Cyclamen Mite[1, 2]	3.5 (0.019)

Broadcast Instructions:

- May be applied by ground only.
- Adjust the final spray volume based on the pest populations, foliage density, or application conditions such as high temperature. Apply in a minimum of 50 gallons per acre of final spray by conventional ground equipment or a minimum of 5 gallons per acre of final spray by electro-static spraying to achieve thorough coverage. Thorough coverage of the upper and lower leaves is required for good control.
- Ensure maximum coverage of the tops and undersides of leaves by adjusting the spray volume and nozzle placement.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.

Specific Pest Instructions:

- **[1]Cyclamen mite:** Make application in sufficient final spray in order to obtain good coverage into the crown of the plant.
- **[2]Mites:** When mites first appear make 2 applications 7-10 days apart. Repeat this application sequence if needed to maintain control following applicable restrictions below.

Specific Use Restrictions:

- **Application Method:**
  - Ground applications are permitted. Do not apply by air.
  - Do not apply in strawberry nurseries.
- **Maximum Single Application:** Do not apply more than 3.5 fl oz/A (0.019 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 14 fl oz Averland FC/A/calendar year
  - Do not exceed 0.076 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make additional applications less than 21 days after the second application.
- **Pre-Harvest Interval (PHI):** Do not apply within 3 days of harvest.

TREE NUTS CROP GROUP 14

Almond; beech nut; Brazil nut; butternut; cashew; chestnut; chinquapin; filbert (hazelnut); hickory nut; macadamia nut (bush nut); pecan; walnut, black and English (Persian)

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
European Red Mite[1] Pacific Spider Mite[1] Strawberry Spider Mite[1] Two-Spotted Spider Mite[1]	2.25 - 4.25 (0.012 - 0.023)

Broadcast Instructions:

- May be applied by ground only.
- Adjust the final spray volume based on the size and number of trees per acre and the density of the foliage. Apply in a minimum of 40 gallons per acre of final spray by conventional ground equipment to achieve thorough coverage. Thorough coverage is required for good control.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.

Specific Pest Instructions:

- [1]**Mites:** Apply when mites first appear. Repeat application as needed to maintain control following applicable restrictions below. Spray deposits on newer leaves have better residual mite control than spray deposits on older leaves.

Specific Use Restrictions:

- **Application Method:** Ground applications are permitted. Do not apply by air.
- **Application Timing:** Do not apply from onset of flowering until after petal fall is complete.
- **Maximum Single Application:** Do not apply more than 4.25 fl oz/A (0.023 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 8.5 fl oz Averland FC/A/calendar year
  - Do not exceed 0.046 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 21 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 21 days of harvest.
- **Resistance Management:** Do not make more than 2 foliar applications of all abamectin containing products per year.
- **Grazing:** Do not graze livestock in treated orchards.

TUBEROUS AND CORM VEGETABLES SUBGROUP 1C

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

FOLIAR PESTS	USE RATES fl oz product/A (lb a.i./A)
Colorado Potato Beetle[1] *Liriomyza* Leafminer[2] Potato Psyllid Spider Mite[2]	1.75 - 3.5 (0.010 - 0.019)
Suppression: Thrips[3]	3.5 (0.019)

Broadcast Instructions:

- May be applied by ground or by aircraft. May be applied by overhead sprinkler chemigation for suppression of thrips.
- Adjust the final spray volume based on the pest populations, foliage density, or application conditions such as high temperature. Apply in a minimum of 20 gallons per acre of final spray by ground or 5 gallons per acre by air to achieve thorough coverage. Thorough coverage is required for good control.

Precautions:

- When applying foliarly, must be mixed with a non-ionic activator type wetting, spreading and/or penetrating spray adjuvant in order to avoid illegal residues. See the Mixing Instructions section for more information.
- Binder or sticker type adjuvants may reduce insect control.
- Aerial applications and chemigation may result in lower levels and duration of control compared to ground applications.

Specific Pest Instructions:

- **[1]Colorado potato beetle:** Make the first application after approximately 50% of the egg masses have hatched and early instar larvae are present. If 2 applications are needed, limit the two applications to a single generation of Colorado potato beetle per crop.
- **[2]Leafminers, spider mites:** Make the first application when adult leafminer flies or spider mites are first observed. Repeat application as needed to maintain control following applicable restrictions below.
- **[3]Thrips:** Make applications as a part of a thrips management program when economic thresholds have been reached. Repeat application as needed to maintain control following applicable restrictions below.

Specific Use Restrictions:

- **State Restrictions:** Do not apply by aircraft in New York State.
- **Application Method:**
  - Ground or aerial applications are permitted.
  - Overhead chemigation applications are permitted for the suppression of thrips.
  - Do not use as a rescue treatment for thrips control.
- **Maximum Single Application:** Do not apply more than 3.5 fl oz/A (0.019 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 10.25 fl oz Averland FC/A/calendar year
  - Do not exceed 0.056 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).
- **Application Interval:** Do not make applications less than 7 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 14 days of harvest.
- **Resistance Management:**
  - Do not make more than 2 sequential foliar applications of all abamectin containing products per year.
  - Do not apply more than 2 foliar applications of all abamectin containing products to a single generation of Colorado potato beetle or within any 30-day period.
  - Do not use Averland FC as a rescue treatment for thrips control.
- **Grazing:** Do not graze livestock in treated areas or feed treated foliage to livestock.

STORAGE AND DISPOSAL

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

Pesticide Storage
Store in original containers only. Store in a cool and dry place, in such a manner as to avoid cross-contamination. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

Pesticide Disposal
Pesticide wastes are acutely 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 of the nearest EPA Regional Office for guidance.

[Container Handling less than or equal to 5 gallons - Non-refillable container:
Do not reuse or refill this container. 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 and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.]

[Container Handling greater than 5 gallons - Refillable container:
Refill this container with pesticide only. Do not reuse the container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.]

[Container Handling greater than 5 gallons - Non-refillable 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 ¼ 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 if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.]

CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.

IMPORTANT INFORMATION
READ BEFORE USING PRODUCT

Conditions 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. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of Vive Crop Protection or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Vive Crop Protection and Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, VIVE CROP PROTECTION MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT.

Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or Vive Crop Protection, and buyer assumes the risk of any such use.

To the extent consistent with applicable law, Vive Crop Protection or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF VIVE CROP PROTECTION AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF VIVE CROP PROTECTION OR SELLER, THE REPLACEMENT OF THE PRODUCT.

These Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement except as signed by an authorized representative of Vive Crop Protection.

Averland Allosperse, and Vive Crop Protection are trademarks of Vive Crop Protection Inc.

{Optional marketing or other non-FIFRA related language}

Shake Well Before Use

Liquid fertilizer compatible

Designed for liquid fertilizer compatibility

Allosperse Delivery System

Using the Allosperse Delivery System

[The Allosperse Delivery System is a suite of ingredients used as delivery agents to control how Averland FC mixes with fertilizer in the mix tank.]

[Provides the ability to] mix directly with [most types of] starter fertilizer; [NO expensive equipment, NO additives] [with no additional additives, blending agents, or additional equipment solutions]

No worries if weather delays [occur during] application – product stays mixed in [most] fertilizers for 24 hours with only mild agitation [needed/required].

Dust-free formulation

[Insecticide/Miticide/Nematicide]

Treats [X] acres of [Y] per [gallon/jug] of product at the [low/high] use rate.
{X = number of acres at use rate as described in the table in the APPLICATION AND MIXING INSTRUCTIONS section. Y = the crop which the rate is labelled for}

Protects corn against a broad spectrum of yield-robbing nematode pests.

Averland FC provides control of psyllids and other insects and mites on both sides of the leaf because it is locally systemic with translaminar activity.

In chemigation systems Averland FC won't gum up lines and nozzles.

Built with Allosperse

{Note to reviewer: For fully labeled sample product, the statement **[not for resale]** ***and*** **[sample product – no commercial value]** ***may be used on the sample label}***

SUPPLEMENTAL LABELING

This supplemental label expires on March 22, 2025 and must not be used after this date

RESTRICTED USE PESTICIDE
DUE TO TOXICITY TO NON-TARGET INVERTEBRATES, 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.

ABAMECTIN | GROUP 6 | INSECTICIDE

Averland® FC

EPA Reg. No. 89118-10

COTTON IN-FURROW APPLICATIONS

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This labeling must be in the possession of the user at the time of the application. Read the label affixed to the container for Averland FC before applying. Use of Averland FC according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the container for Averland FC.

COTTON

SOIL PESTS	USE RATES	
	fl oz product/A (lb a.i./A)	**fl oz product/1000 row ft (oz a.i./1000 row ft) @ 36" rows**
Suppression: Nematodes	3.5 (0.019)	0.24 (0.021)

At-Plant / Soil Applied Instructions

For early season seed and seedling protection apply in the following method:

- Apply in-furrow in a minimum of 5 gallons per acre of final volume as a spray or dribble directed on the seed during planting.
- Linear application rate is based on 36" rows. For different row spacing consult the Linear Application Rate Conversion Chart in the Instructions for At-Plant Applications section. In all cases do not exceed the maximum per acre use restriction.

Specific Use Restrictions:

- [Not for use in California]
- **Application Method:** Do not apply through any type of irrigation systems.
- **Maximum Single Application:** Do not apply more than 3.5 fl oz/A (0.019 lb a.i./A) per application.
- **Annual Maximum:**
  - Do not exceed 7.0 fl oz Averland FC/A/calendar year.
  - Do not exceed 0.038 lb abamectin/A/calendar year from all abamectin containing products including all application types (seed treatments, soil, foliar).

- **Application Interval:** Do not make applications less than 21 days apart.
- **Pre-Harvest Interval (PHI):** Do not apply within 20 days of harvest.
- **Resistance Management:** Do not make more than 2 foliar applications of all abamectin containing products per year.
- **Grazing:** Do not graze livestock in treated areas or feed treated foliage to livestock.

Vive Crop Protection, Inc.
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