

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

October 16, 2024

Kyleigh Toomey kyleigh.toomey@atticusllc.com ATTICUS, LLC

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment - Label

amendment to remove non-applicable restriction for field corn and minor label changes for

clarity for the end user Product Name: A110.02 Admin Number: 91234-104 EPA Receipt Date: 07/19/2024 Action Case Number: 00624304

Dear Kyleigh Toomey:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

The label submitted with the application has been stamped "Accepted Only Indicated Revisions Reviewed" and is enclosed for your records.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the 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 EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have questions, please contact Hester Dingle via email at dingle.hester@epa.gov. Sincerely,

Jacquelyn Herrick, PM 3

IVB1, RD

Office of Pesticide Programs

ACCEPTED

ONLY INDICATED REVISIONS REVIEWED

10/16/2024

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

91234-104

No label revisions other than those indicated were reported to the Agency.

Note to reviewer: [Text] in brackets denotes optional or explanatory language Note to reviewer: {Text} in braces denotes where in the final label text will appear

{BOOKLET FRONT PANEL LANGUAGE}

RESTRICTED USE PESTICIDE

Due to eye irritation and acute oral toxicity. Toxic to fish and aquatic organisms.

For retail sale to and use only by certified applicators or persons under their direct supervision and only for the uses covered by the certified applicator's certification.

BIFENTHRIN GROUP 3A INSECTICIDE

A110.02™

[Alternate Brand Name: Batallion, Batallion 2 EC]

Contains bifenthrin, the active ingredient used in Brigade® 2EC.

[Insecticide/Miticide]

[For labels including only outdoor food uses] [For Outdoor Use Only]

[For labels including either 1] outdoor food uses and ornamentals/trees or 2) ornamentals/trees only] [For both indoor and outdoor use.1

For use to control listed insects and mites on artichokes, brassicas, bushberries, caneberries, canola, cilantro, citrus, coriander, corn, cotton, crambe, cucurbits, dried beans and peas, fruiting vegetables, grapes, grass grown for seed, pasture, and rangeland, head lettuce, hops, leafy brassicas, leafy petiole vegetables, mayhaw, okra, peanuts, pears, rapeseed, root crops, soybeans, spinach, strawberries, succulent peas and beans, tobacco, and tuberous and corm vegetables.]

For use to control listed insect pests on Ornamentals and Trees* (Field and Container Grown Nursery Stock, Christmas Trees, Interiorscapes and Plantscapes, Lawns, Trees and Shrubs, and on Golf Courses and Sod Farms)

* Not Registered for Use by California]

[DO NOT APPLY THIS PRODUCT ON GOLF COURSES AND SOD FARMS IN NASSAU OR SUFFOLK COUNTY, NEW YORK].

Bifenthrin: (2 methyl[1,1 -biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3trifluoro-1-propenyl)-2,2-dimethyl-cyclopropanecarboxylate*... .25.0% OTHER INGREDIENTS**: 75.0% TOTAL... *Cis isomers 97% minimum, trans isomers 3% maximum.

*Contains petroleum distillates, xylene or xylene range aromatic solvents.

This product contains 2 pounds 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).

See inside label booklet for First Aid, Precautionary Statements and Directions for Use [A110.02™] is not manufactured, or distributed by FMC Corporation, seller of Brigade® 2 EC.

EPA Reg. No.: 91234-104

EPA Est. No.

Manufactured For:

Atticus, LLC

940 NW Cary Parkway, Suite 200 Cary, NC 27513

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{LANGUAGE INSIDE BOOKLET}

	FIRST AID
IF SWALLOWED:	Immediately call a poison control center or doctor.
	 Do not induce vomiting unless told to do so by a poison control center or doctor.
	Do not give any liquid to the person.
	 Do not give anything by mouth to an unconscious person.
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.
IF ON SKIN OR	Take off contaminated clothing.
CLOTHING:	Rinse skin immediately with plenty of water for 15-20 minutes.
	Call a poison control center or doctor for treatment advice.
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.

NOTE TO PHYSICIAN: This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and should be avoided. This product contains a petroleum distillates. Vomiting may cause aspiration pneumonia.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at **1-844-685-9173** for emergency medical treatment information.

For Chemical Emergency: Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Harmful if inhaled or absorbed through skin. Avoid breathing vapor or spray mist. Avoid contact with skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below.

Handlers who may be exposed to the dilute through application or other tasks must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves: barrier laminate or viton (≥ 14 mils)
- shoes plus socks

Handlers who may be exposed to the concentrate through mixing, loading, application, or other tasks must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves: barrier laminate or viton (≥ 14 mils)
- shoes plus socks
- Protective eyewear

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Mixers and loaders supporting aerial applications to cotton must wear at a minimum:

- long-sleeved shirt and long pants,
- chemical-resistant gloves: barrier laminate or viton (≥ 14 mils)
- shoes plus socks

Mixers, loaders, and applicators using mechanically pressurized handguns for applications to tuberous and corm vegetables must wear at a minimum:

- long-sleeved shirt and long pants,
- chemical-resistant gloves: barrier laminate or viton (≥ 14 mils)
- shoes plus socks

Mixers, loaders, and applicators using mechanically pressurized handguns for applications to tobacco must wear at a minimum:

- long-sleeved shirt and long pants,
- chemical-resistant gloves: barrier laminate or viton (≥ 14 mils)
- shoes plus socks

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

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands 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 <u>As soon as possible</u>, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. 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 make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues 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. **Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms.**

The use of **A110.02** is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

PHYSICAL/CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE

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

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

For soil or foliar applications, do not apply by ground within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.

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AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

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

- Coveralls
- Chemical-resistant gloves: barrier laminate or Viton (≥ 14 mils)
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protections Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries and greenhouses.

Do not allow people or pets on treated areas until the spray has dried.

RESISTANCE MANAGEMENT

For resistance management, **A110.02** contains a Group 3A insecticide. Any insect population may contain individuals naturally resistant to **A110.02** and other Group 3A insecticides/acaricides. The resistant individuals may dominate the insect/mite population if this group of insecticides /acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

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

- Rotate the use of A110.02 or other Group 3A insecticides /acaricides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides/acaricides from a different group that are equally effective on the target pest when
 such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known crossresistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the
 following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
 - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which
 they are individually registered for use against the target species.
 - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.

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For further information or to report suspected resistance contact Atticus, LLC at (984) 465-4800.

APPLICATIONS INSTRUCTIONS

The rate of **A110.02** applied will vary according to pest pressure and timing of application. Use lower labeled rates under light to moderate infestations and higher labeled rates under heavy insect pressure and for mite control. Use higher labeled rates for arid climates.

Unless otherwise specified for a specific crop, apply when pest population reaches economic (damaging) threshold and repeat as necessary to maintain control. Thorough coverage is essential to achieve control.

In the COMMENTS section of the label for each crop, the application rate when applied by ground and/or air is listed as an amount of spray per acre. In all cases, this refers to finished spray per acre.

CHEMIGATION USE DIRECTIONS

Only apply this product through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. Contact your State Agricultural Extension Service specialists, equipment manufacturers, or other experts for consultation on the suitability of the equipment setup to obtain effective control of the target insect pests.

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. Failure to cease application during a mechanical stoppage may result in undesirable residues to adjacent area.

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.

Do not apply when wind speed favors drift beyond the area intended for treatment.

For sprinkler irrigation, meter A110.02 at a continuous uniform rate during the entire irrigation period. Apply in sufficient volume of water or other diluent to ensure accurate application over the treated area. If non-emulsified oil is used as the diluent, use 1 to 2 pints per acre. Maintain continuous agitation of the pesticide supply tank for the duration of the application period. When chemigation systems are used, use 0.5 inch per acre of irrigation water except that for Low Energy Precision Application (LEPA) irrigation, use a minimum of 0.75 inch of water per acre.

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MANDATORY SPRAY DRIFT MANAGEMENT Aerial Applications: Do not release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety. Applicators are required to select nozzle and pressure that deliver medium or coarser droplets (ASABE S641). Do not apply when wind speeds exceed 15 mph at the application site. If the wind speed is greater than 10 mph, the boom

downwind edge of the field.Do not apply during temperature inversions.

Airblast Applications:

• Sprays must be directed into the canopy.

diameter for helicopters.

- Do not apply when wind speeds exceed 15 mph at the application site.
- User must turn off outward pointing nozzles at row ends and when spraying outer row.
- Do not apply during temperature inversions.

Ground Boom Applications:

 User must only apply with the nozzle height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.

length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor

If the windspeed is 10 miles per hour or less, applicators must use ½ swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use ¾ swath displacement upwind at the

- Applicators are required to select nozzle and pressure that deliver medium or coarser droplets (ASABE S572).
- Do not apply when wind speeds exceed 15 mph at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

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

IMPORTANCE OF DROPLET SIZE

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

Controlling Droplet Size – Ground Boom

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

Controlling Droplet Size – Aircraft

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

BOOM HEIGHT - Ground Boom

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

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift.

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SHIELDED SPRAYERS

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

TEMPERATURE AND HUMIDITY

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

TEMPERATURE INVERSIONS

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

WINE

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.

Handheld Technology Applications:

BUFFER ZONES VEGETATIVE FILTER STRIPS

Construct and maintain a vegetative filter strip, according to the width specified below, of grass or other permanent vegetation between the field edge and nearby down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing bifenthrin onto fields where a maintained vegetative filter strip of at **least 25 feet** exists between the field edge and where a down gradient aquatic habitat exists. This minimum required width of 25 feet may be reduced or removed under the following conditions:

- For Western irrigated agriculture, a maintained vegetative filter strip of at least 10 feet wide is required. Western irrigated
 agriculture is defined as irrigated farmland in the following states: WA, OR, CA, ID, NV, UT, AZ, MT, WY, CO, NM, and TX
 (west of I-35).
 - o For Western irrigated agriculture, if a sediment control basin is present, a vegetative filter strip is not required.
- In all other areas, a vegetative filter strip with a minimum width of 25 feet is required, unless the following conditions are
 met. The vegetative filter strip requirement may be reduced from 25 feet to 15 feet if at least one of the following applies:
 - o The area of application is considered prime farmland (as defined in 7 CFR § 657.5).
 - Conservation tillage is being implemented on the area of application. Conservation tillage is defined as any system
 that leaves at least 30% of the soil surface covered by residue after planting. Conservation tillage practices can
 include mulch-till, no-till, or strip-till.
 - o A functional terrace system is maintained on the area of application.
 - o Water and sediment control basins for the area of application are functional and maintained.
 - o The area of application is less than or equal to 10 acres.

For further guidance on vegetated filter strips, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. https://www.regulations.gov/document?D=EPA-HQ-OPP-2008-0331-0175

For guidance, refer to the following publication for information on constructing and maintaining effective buffers:

Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth,
 Texas. 21 pp., http://www.in.nrcs. usda.gov/technical/agronomy/newconbuf.pdf.

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BUFFER ZONE TO WATER BODIES

Ground Application

 Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds.)

Ultra Low Volume (ULV) Aerial Application

• Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds). Applications made by mosquito control districts and other public health officials are exempt from this requirement.

Non-ULV Aerial Application

• Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Additional Requirements for Ground Application

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward-pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Additional Requirements for Aerial Application

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

In New York State, this product may not be applied within100 feet (using ground equipment) to 300 feet (using aerial equipment) of coastal marshes or streams that drain into coastal marshes.

ROTATIONAL CROPS

If applying to crops for which Bifenthrin tolerances exist, the crops may be rotated at any time. All other crops may be rotated 30 days following the final application of **A110.02**.

MIXING INSTRUCTIONS

The spray tank must be clean, thoroughly rinsed, and decontaminated before adding either **A110.02** alone or with tank mix combinations (see **A110.02** in **Tank Mixtures** section below). If water is used as the carrier, use clean water.

For aerial applications made on brassicas (see **CROPS** section of the label below for full list of approved brassicas), canola, crambe, rapeseed, foliar applications on corn, cucurbits (see **CROPS** section of the label below for full list of approved cucurbits), eggplant, grapes, head lettuce, and succulent peas and beans (see **CROPS** section of the label below for full list of approved succulent peas and beans), 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. For aerial applications made on cotton, 1 quart of emulsified oil may be substituted for one quart of water in the finished spray. Thorough coverage is essential to achieve control.

A110.02 Used Alone: When **A110.02** is used alone, add the labeled amount to the spray tank when the tank is half filled with water or other carrier; then add the rest of the water or other carrier (as permitted on this label). Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

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A110.02 with Fertilizer: Fill the spray tank approximately one-half full with water and/or liquid fertilizer, add the proper amount of A110.02, and then add the rest of the water and/or fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform spray mixture.

Perform a jar compatibility test with the appropriate ratio of **A110.02** and fertilizer to ensure the mixture will stay in solution. Maintain constant agitation during mixing and application.

A110.02 in Tank Mixtures: If a tank mixture is used, perform a compatibility test before actual tank mixing. Test all untried mixtures using proper ratios and mixing sequences of all ingredients to be included in the mixture. Once compatibility is confirmed for the tank mix, fill the tank half full with water or other carrier. Start and continue agitation throughout mixing following conventional mixing order practices. A110.02 may be applied in tank mixtures with other products approved for use on registered crops.

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.

Following best management practices can help reduce risk to terrestrial pollinators. Examples of best management practices include applying pesticides in the evening and at night when pollinators are not foraging and checking to confirm hive locations before spraying. For additional resources on pollinator best management practices, visit https://www.epa.gov/pollinator-protection/find-best-management-practices-protect-pollinators.

Managed pollinator protection plans are developed by states/tribes to promote communication between growers, landowners, farmers, beekeepers, pesticide users, and other pest management professionals to reduce exposure of bees to pesticides. If available, visit state plans for additional information on how to protect pollinators.

How to Report Bee Kills

It is recommended that users contact both the state lead agency and the U.S. Environmental Protection Agency to report bee kills due to pesticide application. Bee kills can be reported to EPA at beekill@epa.gov. To contact your state lead agency, see the current listing of state pesticide regulatory agencies at the National Pesticide Information Center's website: http://npic.orst.edu/reg/state agencies.html.

FOOD CROPS USE INSTRUCTIONS

ARTICHOKE

	RATE		
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Artichoke Plume Moth Cribrate Weevil	0.10	6.4	Apply when pest population reaches damaging threshold. Repeat as necessary to maintain control, but do not apply more than once every 15 days. Ground Application: Apply in water in a minimum of 75 gallons per acre as a full cover spray. Air Application: Apply in water in a minimum of 10 gallons per acre.

RESTRICTIONS:

- Do not apply more than 32 fl. oz. (0.5 lb. ai) of A110.02 per acre per year.
- Do not make more than 5 applications per acre per year.
- Minimum re-treatment interval (RTI) is 15 days.
- Do not apply within 5 days of harvest (PHI).

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BRASSICAS

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CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS		
Head and Stem	Aphids	0.033 - 0.10	2.16.4	Ground Application: Apply in water in a minimum of 10	1	Formatted: Font: Bold
Brassica Vegetables:	Armyworms			gallons per acre.		Formatted: Right: -0.07"
Broccoli	Corn Earworm			Air Application: Apply in water in a minimum of 2		
Chinese Broccoli	Crickets			gallons per acre. Emulsified oil may be substituted for		Deleted:
(gai lon, white	Cucumber Beetle			water.		
flowering broccoli)	Cutworms					Deleted:
Brussels Sprouts	Diamondback Moth			See section entitled MIXING INSTRUCTIONS for details		Deleted:
Cauliflower	Flea Beetle			on the amount of oil to use in the spray tank in lieu of		
Cavalo Broccolo	Ground Beetles			water.		
Kohlrabi	Imported Cabbageworm					Deleted: ¶
Cabbage	Leafhoppers					
Chinese Cabbage	Loopers					
(napa)	Saltmarsh Caterpillar					Deleted: ¶
Chinese Mustard	Stink Bugs					
Cabbage (gai choy)	Thrips					Deleted:
	Tobacco Budworm					
	Whitefly					
	Wireworm (Adults)					
	Banks Grass Mite	0.08 - 0.10	5.12 - 6.4			
	Carmine Mite					
	Lygus Spp.					
	Pacific Spider Mite					
	Twospotted Spider, Mite					Deleted: ¶

- Do not apply more than 32 fl. oz. (0.5 lb ai) of A110.02 per acre per year.
- Do not make more than 5 applications after bloom.
- Do not apply within 7 days of harvest (PHI).
- Repeat applications if needed to maintain control, but do not make applications less than 7 days apart.

BUSHBERRIES[*]

CROP	PEST	RATE		APPLICATION INSTRUCTIONS		
		LB AI/A	FL OZ/A			
Blueberry (highbush	Aphids	0.033 - 0.10	2.1 - 6.4	Ground application: Apply in water in a minimum of 10		
and lowbush)	Blueberry Maggot			gallons per acre.		
Currant	Fruitworms					
Elderberry	Japanese Beetle			Air application: Apply in water in a minimum of 2		
Gooseberry	Leafhoppers			gallons per acre.		
Huckleberry	Leaf Rollers					
	Plum Curculio					
	Spanworm					
	Twospotted Spider Mite	0.08 - 0.10	5.12 - 6.4			
	Carmine Mite					
	Pacific Spider Mite					
	Lygus spp.					

- Do not make more than 5 applications per year.
 Do not apply within 1 day of harvest (PHI).
 Do not make applications less than 7 days apart.

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		R/	ATE	
CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Caneberries:	Leafrollers	0.05-0.10	3.2-6.4	Ground Application: Apply in water in a minimum of 50
Blackberries	Orange Tortrix			gallons per acre.
Bingleberries	Root Weevils			
Dewberries	Spider Mites	0.10	6.4	Air Application: Apply in water in a minimum of 10 gallons
Loganberries				per acre.

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Raspberries Youngberries RESTRICTIONS:

Lowberries

Marionberries Olallieberries

- Do not apply more than 12.8 fl. oz.(0.2 lb.ai) of A110.02 per acre per year.
- Do not make more than 2 applications per year.
- Do not apply within 3 days of harvest (PHI).

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CANOLA, CRAMBE, RAPESEED

	RAT	E	
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Aphids	0.033 - 0.04	2.1 - 2.6	Ground Application: Apply in water in a minimum of 10 gallons per
Armyworms			acre.
Cutworms			
Diamondback Moth			Air Application: Apply in water in a minimum of 2 gallons per acre
Flea Beetles			Emulsified oil may be substituted for water.
Flea Hoppers			
Grasshoppers			See section entitled MIXING INSTRUCTIONS for details on the amount
Loopers			of oil to use in the spray tank in lieu of water.
Lygus Bugs			
Other, Lepidopterous Larvae			
Plant Bugs			
Seedpod Weevil			
Stink Bugs			
Thrips			
Whitefly			
DECEDICATIONIC.			•

One application may be made pre-bloom and a second

application may be made post bloom.

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RESTRICTIONS:

- Do not apply more than <u>5.12 fl. oz. (0.08 lb. ai) of **A110.02** per acre per year.</u>
- Do not make more than 2 applications per year.
- Do not apply within 35 days of harvest (PHI).
- Repeat applications if needed to maintain control, but do not make applications less than 14 days apart.

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CHRISTMAS TREES (For use only in Washington and Oreg	on)
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RATE		
LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
.060.10	3.96.4	Ground Application: Apply in water in a minimum of 20 gallons per acre. Air Application: Apply in water in a minimum of 5 gallons per acre. A110.02 is usually not phytotoxic to Christmas trees. However, make applications to a small representative group of plants to ensure that a particular variety grown under current conditions is not unusually sensitive to A110.02.
	LB AI/A	LB AI/A FL OZ/A

RESTRICTIONS:

- Do not apply more than 12.8 fl. oz. (0.2 lb. ai) of A110.02 per acre per year.
- Do not make more than 2 foliar applications of bifenthrin (all products) per year.
- Do not make applications through irrigation systems.
- Do not apply more often than once every 21 days.

CILANTRO, CORIANDER

_	RATE		
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Aphids	0.033 - 0.10	2.1 - 6.4	Ground Application: Apply in water in a minimum of 10 gallons per
Beet Armyworm			acre.
Cabbage Looper			
Cutworm			Air Application: Apply in water in a minimum of 2 gallons per acre.
Flea Beetle			
Grasshoppers			Apply in sufficient water to obtain thorough coverage.
Leafminer			
Saltmarsh caterpillar			
Spotted Cucumber Beetle			
Thrips			
Whitefly			
Two Spotted Spider Mite	0.08 - 0.10	5.12 - 6.4	
RESTRICTIONS:		-	

- Do not apply more than 32 fl. oz. (0.5 lb. ai) of A110.02 per acre per year.
- Do not make applications less than 7 days apart.
- Do not make more than 5 applications per year.
- Do not apply within 3 days of harvest (PHI).

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PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS			Tormacted Table
Asian Cockroach	0.25 - 0.50	16-32	Ground Application: Apply in water in a minimum of 30 gallons per	*		Formatted: Indent: Left: 0"
Diaprepes Root Weevil			acre.	•		Formatted: Justified, Indent: Left: 0", Right: 0"
Diaprepes abbreviatus)						
ire Ants			Use a handgun or shielded sprayer to apply to individual citrus trees if			Formatted: Indent: Left: 0", First line: 0"
			they are not planted in solid rows.		Ϊ,	Deleted: ,
			Diaprepes root weevil emergence generally occurs in the spring, but		\	Formatted: Indent: Left: 0"
			weather conditions can prompt a second emergence in the fall. In areas			
			where only a spring emergence is expected, use 32 ounces of A110.02 .			
			In areas where a second emergence is expected, use 16 ounces of			
			A110.02 in the early season and 16 ounces of A110.02 later in the			
			season.			
			If the length of control of A110.02 is not sufficient to cover the			
			emergence of the root weevil, use other pest control measures from			
			State Agricultural Extension Specialists or other local experts.			
			*Not Registered for Use by California Junless accompanied by a	4		Deleted: Use
	supplemental label. This product must be used in accordance with the directions for use on this label, or exemptions under FIFRA (FIFRA		_	Deleted: in		
			Section 18 exemptions, FIFRA 2(ee) Bulletins).			Deleted: not permitted
RESTRICTIONS:					ν,	Formatted: Justified, Indent: Left: 0"
	ugh irrigation system		it or foliage			Deleted: ¶
,	than <u>32 fl. oz. (</u> 0.5 l		S			Deleted: active ingredient (32 ounces formulated
	than 2 applications					0
Do not apply by air		. ,				
 Ground application 	n only.					
Do not apply withi	n 1 day of harvest (P	HI)			_	Formatted: Font: 9 pt

RATE		TE			
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS	-	Formatted Table
Blue Green Citrus Root Weevil (<i>Pachnaeus opalus</i>) Brown Leaf Notcher	0.25-0.50	16-32	Ground Application: Apply in water in a minimum of 40 gallons per acre.	-	Formatted: Justified, Right: 0.03"
(Epicaerus mexicanus) Diaprepes Root Weevil (Diaprepes abbreviatus)			Greater spray volumes increase uniformity of coverage. Also coverage uniformity may be aided by using a pre-and post-irrigation application.		
Little Leaf Notcher (Artipus floridanus) Southern Blue Green Citrus Root			Use a handgun or shielded sprayer to apply to individual citrus trees if they are not planted in solid rows.	£	Formatted: Indent: Left: 0", Hanging: 0.06", Right:
Weevil (Pachnaeus Litus)			All citrus root weevils have a similar life cycle. They have three immature stages: egg, larva, and pupa. Adult weevils emerge from the		Formatted: Justified, Right: 0.03"
Asian Cockroach	0.1-0.25	6.4-16	soil and lay eggs on host plants above ground, the larvae enter the soil		
Fire Ants			to feed on roots, and the pupae and teneral adult stages are spent		Deleted: ,
			below ground. Adults emerge beneath citrus trees throughout the year. Time A110.02 application during peak adult emergence. Peak adult emergence varies within and among species and by region. Peak emergence for the blue-green root weevil is normally April and May. Diaprepes adult emergence from the soil appears to be triggered by the onset of regular rainfall events and can have two emergence peaks, in mid-May to mid-July and/or late-August to mid-October. The second peak is variable and may relate to host plant availability. Little leaf notcher has three generations per year. Although there is considerable overlap of generations, adults appear most abundant in April/May, July/August, and October/November.		

A110.02 protects citrus tree roots from citrus root weevils by forming a Formatted: Justified, Right: 0.03" barrier which provides contact activity on neonate larvae when they fall to the ground shortly after hatching from eggs which were oviposited in the citrus tree foliage. Once application is made, be careful not to disturb the treated soil. In areas where only a spring emergence is expected, use 32 ounces of A110.02. In areas where a second emergence is expected, use 16 ounces of A110.02 in the early season and 16 ounces of A110.02 later in the season. If the length of control of A110.02 is not sufficient to cover the emergence of the root weevil, use other pest control measures from State Agricultural Extension Specialists or other local experts. RESTRICTIONS: Do not apply through irrigation systems. Do not allow any application of A110.02 to contact fruit or foliage. Do not apply more than 32 fl. oz. (0.5 lb. ai) of A110.02 per acre per year. Deleted: active ingredient Do not make more than 2 applications per year. Deleted: (Do not apply by air. Deleted: 32 ounces formulated) Ground application only. Do not apply within 1 day of harvest (PHI). CONIFER SEED ORCHARDS (For Use Only in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Oklahoma, South Carolina, Tennessee, Texas, Deleted: Virginia) LB AI/A FL OZ/A APPLICATION INSTRUCTIONS PEST Cone Worms Ground Application: Apply in water in a minimum of 100-500 gallons 0.1-0.2 6.4-12.8 Seed Bugs per acre Seed Worms Air Application: Apply in water in a minimum of 10 gallons per acre or 0.5 gallon refined vegetable oil per acre.

Apply in sufficient water to obtain thorough coverage.

Begin applications 7 days after peak pollen flight and continue on 30-day intervals up to a maximum of 0.6 lb. active per acre per year.

For best control of emerging root weevils, apply **A110.02** to the soil beneath the citrus trees from the trunk to the drip line of the tree.

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Do not apply more than 38.4 fl oz (0.6 lb ai) of A110.02 per acre per year.

Do not make more than <u>6</u> applications per year.

Do not make applications less than 30 days apart.

RESTRICTIONS:

CORN: FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (AT PLANTING)

PEST	RATE		APPLICATION INSTRUCTIONS
	LB AI/ 1,000	FL OZ/ 1,000	
	LINEAR FT. OF	LINEAR FT. OF	
	ROW	ROW	
Corn Rootworm Larvae	0.0046	0.30	Ground Application: Apply in water in a minimum of 3 gallons per acre.
Northern	_		
Southern			For use on corn at planting, apply a 5- inch to 7 inch T-band over the
Western			open seed furrow.
Army Cutworm	0.0023 0.0046	0.15-0.30	
Cutworm Species			Center the spray nozzle over the row behind the planter shoe in front of
Grubs			the press wheel.
Seedcorn Beetle			
Seedcorn Maggot			In-furrow pop-up fertilizers may be used alone or in tank mixtures with
True Armyworm or			A110.02. See the section entitled MIXING INSTRUCTIONS, A110.02
Armyworm Species			with Fertilizer for additional instructions and precautions when mixing
Wireworms			with fertilizers.

RESTRICTIONS:

- Do not apply to soil where there is greater than 30% cover of crop residue remaining.
- Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment.
- Do not apply more than 6.4 fl. oz. (0.1 lb. ai) of A110.02 per acre per year as an at plant application.
- Do not apply within 30 days of harvest (PHI).

- Bo not apply within 50 days of harvest (1711).				
Row Spacings (inches) ¹	40	38	36	30
A110.02 (pounds ai per acre)	0.060	0.064	0.069	0.080
A110.02 (formulated ounces per acre)	3.9	4.1	4.4	5.12

¹Use this table to determine the **A110.02** needs per acre.

CORN: FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (PRE & PPI)

LB AI/A 047 _0.062 Pre-Plant corporated (PPI)	FL OZ/A 3 4 Pre-Plant Incorporated (PPI)	APPLICATION INSTRUCTIONS Ground Application: Apply in water in a minimum of 3 gallons per acre. Use the labeled rate as a preplant incorporated treatment either alone or in tank mix combination with registered preplant incorporated herbicides. Incorporate A110.02 to the intended planting depth, but no deeper than 3
Pre-Plant corporated	Pre-Plant Incorporated	Use the labeled rate as a preplant incorporated treatment either alone or in tank mix combination with registered preplant incorporated herbicides.
corporated	Incorporated	tank mix combination with registered preplant incorporated herbicides.
		tank mix combination with registered preplant incorporated herbicides.
		Incorporate A110.03 to the intended planting depth, but no deeper than 2
		inches.
0.040	2.56	menes.
-emergence	₽re-emergence	The 3 to 4 fl oz rate must be applied as PPI and can be tank mixed and
(PRE)	(PRE)	applied with PPI herbicides.
		Apply the 2.56 fl. oz. rate PRE and can be tank mixed and applied with PRE herbicides.
_		

- Do not apply more than 19.2 fl. oz. (0.3 lb ai) of A110.02 per acre, per year including, at-plant, PRE, PPI, and foliar applications.
- Do not apply within 30 days of harvest.
- Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application.
- Use of ultra low volume (ULV) application on corn is prohibited.
- Do not make aerial or ground applications to corn if heavy rainfall is imminent.

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CORN: FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED

RATE

PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Aphids	0.033-0.10	2.1-6.4	Ground Application: Apply in water in a minimum of 10 gallons per acre except
Army Cutworm			see specific comment below for TX, NM, OK, and AZ mite control.
Beet Armyworm			
Cereal Leaf Beetle			Air Application: Apply in water in a minimum of 2 to 5 gallons per acre except see
Chinch Bug			specific comment below for TX, NM, OK, and AZ mite control.
Common Stalk Borer			
Corn Earworm			In all states, insect control will be improved by increasing the finished spray per
Corn Rootworm Adult			acre to 5 gallons.
Cucumber Beetle Adult			
Cutworm Species			In Texas, New Mexico, Oklahoma, and Arizona, use a minimum of 10 gallons of
European Corn Borer			water per acre by ground and 5 gallons of water per acre by air when making
Fall Armyworm			applications to control mites.
Flea Beetle			
Grasshoppers			Emulsified oil may be substituted for water. See section entitled MIXING
Greenbug			INSTRUCTIONS for details on the amount of oil to use in the spray tank in lieu of
Japanese Beetle Adult			water.
Sap Beetle			Male andications of M110 03 or necessary to maintain control being constituted
Southern Armyworm			Make applications of A110.02 as necessary to maintain control being careful not to exceed reapplication intervals or maximum labeled rates specified in this section.
Southern Corn Leaf			exceed reapplication intervals of maximum labeled rates specified in this section.
Beetle			For pests which attack the ear, apply just before silking.
Southwestern Corn			
Borer			For corn borer control, make application just before or at egg hatch.
Stink Bugs			
Tarnished Plant Bug			For mite control, apply when colonies first form prior to leaf damage and before
True Armyworm or			they disperse into the canopy (for Banks Grass Mite-before dispersal into the upper
Armyworm Species			2/3 of the plant).
Webworms			Hardish as labeled as to a factor of a second as a
Western Bean Cutworm			Use higher labeled rates of A110.02 when pest pressure is severe or crop is under stress from drought and/or heat. When these conditions exist, use tank mixtures
Yellowstriped			with dimethoate for good control.
Armyworm			with difficulty for good control.
Banks Grass Mite	0.08-0.10	5.12-6.4	For control of other insect pests: Apply when pests first appear and repeat as
Carmine Mite			necessary.
Twospotted Spider Mite			
Throspotted Spider Time			Apply for Banks Grass Mite control when colonies first form prior to leaf damage
			or discoloration and before dispersal above the bottom third of the plant.
			For Twospotted Spider Mite and Carmine Mite control, apply when colonies first
			form prior to leaf damage or discoloration and before widespread mite dispersal throughout the canopy. Use higher labeled rates for heavier initial populations
			and corn under heat or drought stress. Field experience with dimethoate at 0.5 lb.
			active per acre in tank mixture has demonstrated good control under these
			conditions.
l			For Mite Control In Texas, New Mexico, Oklahoma, and Arizona: Apply in a
			minimum of 5 gallons of finished spray per acre by aircraft or in a minimum of 10
			gallons per acre with ground equipment.
Restrictions:	1		
	han 19.2 fl. oz.	(0.3 lbai) of	A110.02 per acre per year including PRE and PPI, at-planting, plus foliar applications.
			, ,

- Do not make more than 3 foliar applications per year.

 Do not make more than 3 foliar applications per year.

 Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application.

 Use of ultra low volume (ULV) application on corn is prohibited.
- Do not make aerial or ground applications to corn if heavy rainfall is imminent.
- Do not apply within 30 days of harvest (PHI).

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CORN: SWEET CORN, SWEET CORN GROWN FOR SEED (AT PLANTING)

	RA	ATE.	
	LB AI/1,000 LINEAR	FL OZ/1,000 LINEAR	
PEST	FT. OF ROW	FT. OF ROW	APPLICATION INSTRUCTIONS
Corn Rootworm Larvae	0.0046	0.30	Ground Application: Apply in water in a minimum of 3 gallons per
Northern			acre.
Southern			
Western			For use on corn at planting, apply in a 5- inch to 7-inch T-band
Army Cutworm	0.0023 0.0046	0.15 0.30	over the open seed furrow. Center the spray nozzle over the row behind the planter shoe in front of the press wheel.
Cutworm Species	v		bening the planter shoe in front of the press wheel.
Grubs			In-furrow pop-up fertilizers may be used alone or in tank mixtures
Seedcorn Beetle			with A110.02. See the section entitled MIXING INSTRUCTIONS.
Seedcorn Maggot			A110.02 with Fertilizer for additional instructions and
True Armyworm or			precautions when mixing with fertilizers.
Armyworm Species			
Wireworms			

RESTRICTIONS:

Species

- Do not apply to soil where there is greater than 30% cover of crop residue remaining.
- Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment.
- Do not apply more than 6.4 fl. oz. (0.1 lb. ai) of A110.02 per acre per year as an at plant application.
- Do not apply within 30 days of harvest (PHI).

Row Spacings (inches) ¹	40	38	36	30
A110.02 (pounds ai per acre)	0.060	0.064	0.069	0.080
A110.02 (formulated ounces per acre)	3.9	4.1	4.4	5.12

¹Use this table to determine the **A110.02** needs per acre.

CORN: SWEET CORN, SWEET CORN GROWN FOR SEED (FOLIAR)

PEST	RA	ГЕ	APPLICATION INSTRUCTIONS
	LB AI/A	FL OZ/A	
Aphids	0.0330.10	2.1 - 6.4	Ground Application: Apply in water in a minimum of 10 gallons per acre.
Army Cutworm			
Beet Armyworm			Air Application: Apply in water in a minimum of 2 gallons per acre.
Cereal Leaf Beetle			Emulsified oil may be substituted for water.
Chinch Bug			
Common Stalk Borer			See section entitled MIXING INSTRUCTIONS for details on the amount of
Corn Earworm			oil to use in the spray tank in lieu of water. Make applications of A110.02
Corn Rootworm Adult			as necessary to maintain control being careful not to exceed reapplication
Cucumber Beetle Adult			intervals or maximum labeled rates specified in this section.
Cutworm Species			For a set of the set of the second of the before efficient
European Corn Borer			For pests which attack the ear, apply just before silking.
Fall Armyworm			For corn borer control, make application just before or at egg hatch.
Flea Beetle			The solution make application just before or at egg material
Grasshoppers			For mite control, apply when colonies first form prior to leaf damage and
Greenbugs			before they disperse into the canopy (for Banks Grass Mite - before
Japanese Beetle Adult			dispersal into the upper 2/3 of the plant). Use higher labeled rates of
Sap Beetle			A110.02 when pest pressure is severe or crop is under stress from
Southern Armyworm			drought and/or heat. When these conditions exist, use tank mixtures with
Southern Corn Leaf Beetle			dimethoate for acceptable control.
Southwestern Corn Borer			
Stink Bugs			
Tarnished Plant Bug			
True Armyworm or Armyworm			

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•		
Webworms		
Western Bean Cutworm		
Yellowstriped Armyworm		
Banks Grass Mite	0.080.10	5.12 - 6.4
Carmine Mite		
Twospotted Spider Mite		

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RESTRICTIONS:

- Do not apply more than 12.8 fl. oz. (0.2 lb. ai) of A110.02 per acre per year.
- Do not make more than 2 foliar applications per year.
- Do not graze livestock in treated areas or cut treated crops for feed within 1 day of the last application.
- Use of ultra low volume (ULV) application on corn is prohibited.
- Do not make aerial or ground applications to corn if heavy rainfall is imminent.
- Do not apply within 1 day of harvest (PHI).

COTTON

	RA	TE	
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
European Corn Borer	0.02 - 0.10	1.3 - 6.4	Ground Application : Apply in water in a minimum of 5 gallons per acre
Soybean (Banded) Thrips			
Tobacco Thrips			Air Application: Apply in water in a minimum of 1 gallon per acre
Boll Weevil	0.040.10	2.6 - 6.4	Emulsified oil may be substituted for water.
Bollworm			
Cabbage Looper			See section entitled MIXING INSTRUCTIONS for details on the amount
Cotton Aphid			of oil to use in the spray tank in lieu of water.
Cotton Fleahopper			
Cotton Leafperforator			ULV Application: Apply in a minimum of 1 quart per acre using refine
Cutworms			vegetable oil with aircraft calibrated to give adequate coverage.
Fall Armyworm			
Plant Bugs			Make applications of A110.02 as necessary to maintain control being
Saltmarsh Caterpillar			careful not to exceed reapplication intervals or maximum labeled rate
Southern Garden Leafhopper			specified in this section.
Stink Bugs			
Tobacco Budworm			To Control Boll Weevil: Apply A110.02 at 3- to 4- day intervals unt
Whitefly			pest populations are reduced below economic threshold levels.
Yellowstriped Armyworm			
Beet Armyworm	0.060.10	3.86.4	To Control Mites and Aphids: Apply when pests first appear. Repeat
Carmine Spider Mite			as necessary to maintain control without exceeding maximum labele
Lygus spp.			application rates and reapplication intervals. Use higher labeled rate
Pink Bollworm			when an economic threshold has been established.
Twospotted Spider Mite			
DECEDICATIONS:			

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RESTRICTIONS:

- Do not apply more than 32 fl. oz. (0.5 lb. ai) of A110.02 per acre per year.
- Do not make more than 24 applications per acre per year when using reduced application rates.
- Do not graze livestock in treated areas or cut treated crops for feed.
- Do not make more than 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one
 growing season. Synthetic pyrethroid products include Ambush*, Ammo*, Asana* XL, Baythroid*, Capture*, Danitol*, Karate*,
 Mustang*, and Scout X-TRA*.
- Do not apply within 14 days of harvest (PHI).
- Minimum re-treatment interval (RTI) is 3 days.

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CUCURBITS

		RA	ΤE	
CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Chayote (fruit)	Aphids	0.040.10	2.6 - 6.4	Ground Application: Apply in water in a
Chinese waxgourd (Chinese	Armyworms			minimum of 20 gallons per acre.
preserving melon)	Cabbage Looper			
Citron Melon	Corn Earworm			Air Application: Apply in water in a minimum
Cucumber	Cucumber Beetles			of 5 gallons per acre. Emulsified oil may be
Gherkin	Cutworms			substituted for water.
Edible Gourd, [(hyotan, cucuzza),	Grasshoppers			
Luffa spp. (hechima, Chinese okra)	Leafhoppers			See section entitled MIXING INSTRUCTIONS for
Momordica spp.	Melonworms			details on the amount of oil to use in the spray
(balsam apple, balsam pear, bitter	Pickleworms			tank in lieu of water.
melon, Chinese cucumber)]	Rindworms			
Muskmelon (hybrids and/or	Squash Bugs			
cultivars of Cucumis melo), (true	Squash Vine Borer			
cantaloupe, cantaloupe, casaba,	Stink Bugs			
crenshaw melon, golden pershaw	Tobacco Budworm			
melon, honeydew melon, honey	Whitefly	0.08 - 0.10	5.12 - 6.4	
balls, mango melon, Persian	Banks Grass Mite			
melon, pineapple, melon, Santa	Twospotted Spider			
Claus melon, and snake melon)	Mite			
Pumpkin (<i>Cucurbita spp</i> .)	Carmine Mite			
Squash, summer (crookneck	Lygus spp.			
squash, scallop squash,				
straightneck squash, vegetable				
marrow, zucchini),				
Squash, winter				
(butternut squash, calabaza,				
hubbard squash (C. mixta; C.				
pepo) acorn squash, spaghetti				
squash)				
Watermelon				
(hybrids and/or varieties of				

- Do not apply more than 19.2 fl. oz. (0.3 lb. ai) of A110.02 per acre per year.

 Do not make more than 3 applications per year

 Do not make more than 2 applications after bloom.

 Repeat applications if needed to maintain control, but do not make applications less than 7 days apart.

 Do not apply within 3 days of harvest (PHI).

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CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS		Formatted Table
ried cultivars of Bean	Banks Grass Mite	0.08 0.10	5.12 - 6.4	Ground Application: Apply in water in a minimum of	5	Deleted: to
Lupinus spp.)	Twospotted Spider Mite			10 gallons per acre.	The state of the s	Deleted: to
Grain Lupin	Carmine Mite					Deleted: 10
Sweet Lupin	Lygus spp.			Air Application: Apply in water in a minimum of 2	Y	Formatted: Justified
White Lupin	Aster Leafhopper	0.025_0.10	1.6 <u>-</u> 6.4	gallons per acre.		Deleted: to
White Sweet Lupin	Flea Beetle					Deleted: to
Bean (Phaseolus spp.)	Grasshoppers			Emulsified oil may be substituted for water. See	l	Deleted: to
Field Bean	Leafhoppers			section entitled MIXING INSTRUCTIONS for details		
Kidney Bean	Aphids	0.033 _ 0.10	2.1 <u>-</u> 6.4	on the amount of oil to use in the spray tank in lieu		Deleted: to
Lima Bean (dry)	Beet Armyworm			of water.		Deleted: to
Navy Bean	Fall Armyworm				· ·	Deleted: to
Pinto Bean	Southern Armyworm			Thorough coverage is essential to achieve control.		
Tepary Bean	Yellowstriped				,	
Bean (Vigna spp.)	Armyworm					Formatted: No underline
Adzuki Bean	Bean Leaf Beetle					
Blackeyed Pea	Cucumber Beetles					
Catjang	Japanese Beetle Adult					
Cowpea	Sap Beetle					
Crowder Pea	Plant Bug					
Moth Bean	Stink Bugs					
Mung Bean	Tarnished Plant Bug					
Rice Bean	Alfalfa Caterpillar					
Southern Pea Urd Bean	Cloverworm				(
road bean (dry)	European Corn Borer					Deleted: ¶
nickpeas	Cutworms Western Bean Cutworm				l	
iuar	Corn Earworm					
uai ablab Bean	Loopers					
entils	Corn Rootworm Adults					
ea (Piscum spp.)	Thrips					
eld Pea	Webworms					
geon Pea	Pea Weevil					
	Pea Leaf Weevil					
	Whitefly					
	Imported					
	Cabbageworm					
	Saltmarsh Caterpillar					
	Tobacco Budworm					
	Leafminer					

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Do not apply more than 12.8 fl. oz. (0.2 lb. ai) of A110.02 to peas or 19.2 fl. oz. (0.3 lb ai) to beans per year.
 Do not make more than 2 applications to peas and 3 applications to beans per year.

Do not make applications less than 7 days apart. Do not apply within 14 days of harvest (PHI).

FRUITING VEGETABLES

		RATE		▼
CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Eggplant	Armyworms (including Beet	0.033 _ 0.10	2.1 6.4	Ground Application: Apply in water in a minimum of 10
Groundcherry	Armyworm, Fall Armyworm,			gallons per acre.
Pepino	Southern Yellowstriped			
Pepper (Bell &	Armyworm)			Air Application: Apply in water in a minimum of 2 gallons
Non-Bell)	Cabbage Loopers			per acre.
	Colorado Potato Beetle			
	Corn Earworm			When applying by air, emulsified oil may be substituted
	Cucumber Beetles			for water, See section entitled MIXING INSTRUCTIONS for
	European Corn Borer			details on the amount of oil to use in the spray tank in lieu
	Flea Beetles			of water.
	Leafminers			
	Loopers			
	Pepper weevil			
	Plant Bugs			
	Stink Bugs			
	Thrips			
	Tomato Hornworm			
	Tomato Pinworm			
	Vegetable Leafminer			
	Whitefly			
	Banks Grass Mite	0.080.10	5.12 6.4	
	Broad Mite			
	Carmine Mite			
	Lygus spp.			
	Pacific Spider Mite			
	Twospotted Spider Mite			

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RESTRICTIONS:

- To maintain a proper spray interval, do not make applications less than 7 days apart.
- Do not apply more than 12.8 fl. oz. (0.2 lb.ai) of A110.02 per acre per year.
- Do not make more than 2 applications per year.
- Do not apply within 7 days of harvest (PHI).

CROP	<u>PEST</u>	RA'	<u>TE</u>	APPLICATION INSTRUCTIONS	
		LB AI/A	FL OZ/A		
Tomatoes	Aphids	0.033-0.08	2.1-5.2	Ground Application: Apply in water in a minimum of 15	
Tomatillo	Armyworms (including Beet			gallons per acre.	
	Armyworm, Fall Armyworm,				
	Southern Yellowstriped			Air Application: Apply in water in a minimum of 3 gallons	
	Armyworm)			per acre.	
	Bean Leaf Beetle				
	Cabbageworms				
	Carmine Mite				
	Cloverworm				
	Corn Earworm				
	Corn Rootworm				
	Cucumber Beetle				
	Cutworms				
	Diamondback Moth				
	European Corn Borer				
	Flea Beetles				
	Flea Hoppers				
	Grasshoppers				
	Japanese Beetle (Adult)				
	Leafhoppers				
	Loopers				
	Lygus spp.				
	Melonworms				
	Pea Weevil				
			21	<u> </u>	

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	ea Leaf Weevil				
	ckleworms				
	ant Bugs indworms				
	alt Marsh Caterpillar				
	p Beetle				
	edpod Weevil				
Sc	quash Bugs				
	ink Bug spp.				
	obacco Budworm				
	arnished Plant Bug				
	nrips /hitefly				
	wospotted Spider Mite	9 0.0	3 <u>-</u> 0.10 5.12 <u>-</u> 6.4		Deleted: to
RESTRICTIONS:					Deleted: to
			10.02 per acre per application.		Deleted: 0.1 lb ai/A (
			110.02 per acre per year.	<u> </u>	
	a proper spray interva e more than 4 applicat		e applications less than 10 days apart.		Deleted: /A)
	y within 1 day of harve				Deleted: 0.4 lb ai/A (
	,	, ,		_	Deleted: /A)
GRAPES					
	RAT				
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS	-	Formatted: Centered
Cutworms[*] Eastern Grape Leafho	0.05 <u>-</u> 0.10	3.2 _ 6.4	Ground Application: Apply in water in a minimum of 25 gallons per acre.		Deleted: to
Grape berry moth[*]	рреі		Air Application: Apply in water in a minimum of 10 gallons per acre.		Deleted: to
Japanese beetles adu	ts[*]		Emulsified oil may be substituted for water.		Deleted: ¶
Variegated Leafhoppe	er				23.3331
Western Grape			See section entitled MIXING INSTRUCTIONS for details on the amount of oil to		Deleted: ¶
Leafhopper			use in the spray tank in lieu of water.		
Black Vine Weevil Glassywinged	0.10	6.4	When pest pressure is moderate to severe, use the higher labeled rate.		Formatted: Font: Bold
Sharpshooter			when pest pressure is moderate to severe, use the higher labeled rate.		
Twospotted Spider M	ite				Deleted: ¶
RESTRICTIONS:					Beletter
 Do not appl 	y more than 6.4 fl. oz.	(0.1 lb. <u>ai) of</u>	110.02 per acre per year.		Deleted: active ingredient (6.4 ounces formulated
	e more than 1 applicat				
	y within 30 days of har	rvest (PHI).			
[*Not <u>Registered</u> for I	Jse <u>by California</u>]				Deleted: in
HOPS				1	
DECT	RAT	1	ADDUCATION INCTDUCTIONS	1	Formatted Table
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS Cround Application: Apply in water in a minimum of 100. 150 gallons not acre in		
Aphids	0.06-0.10	3.8-6.4	Ground Application : Apply in water in a minimum of 100 – 150 gallons per acre in		
Armyworms Cutworms			early season; 200-250 gallons per acre late season.		
Leafrollers			Air Application: Apply in water in a minimum of 10 gallons per acre.		
Loopers			All Application. Apply in water in a minimum of 10 gallons per acre.		
	0.05-0.10	3.2-6.4	Make a directed spray up the vine 3 feet and the soil surface 1.5 to 2 feet on		
Root Weevils Twospotted Spider M		6.4	either side of the plant to control root weevil.		Deleted: ¶
RESTRICTIONS:	0.10	0.4	care. Side of the plane to condition foot weevilly		¶
	v more than 6.4 fl oz l	(0.1 lbai) of	110.02 per acre per application.		Deleted: active ingredient (6.4 ounces formulated
			A110.02 per acre per year.		Deleted: active ingredient (19.2 ounces formulated
 Do not appl 					
	e more than 3 applicat				Deleted. active ingredient (15.2 ounces formulated

Use of ultra low volume (ULV) application on hops is prohibited.

Do not apply within 14 days of harvest (PHI).

EAFY BRASSICA	S AND TURNIP GREENS					Deleted: ¶
		RATE		-		Peleted: ¶
CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS	\sim	
roccoli Raab	Aphids	0.033_0.10	2.1_6.4	Ground Application: Apply in water in a minimum of 10	<u> </u>	ormatted Table
ok Choy	Armyworms			gallons per acre.		Deleted: to
ale	Corn Earworm					Deleted: ¶
1izuna	Crickets			Air Application: Apply in water in a minimum of 2 gallons per	\ _	<u>"</u>
lustard Greens	Cucumber Beetles			acre. Emulsified oil may be substituted for water.	L	Deleted: to
lustard Spinach	Cutworms					
ape Greens	Diamondback Moth			See section entitled MIXING INSTRUCTIONS for details on the		
urnip Greens*	Flea Beetles			amount of oil to use in the spray tank in lieu of water.		
	Grasshoppers					
	Ground Beetles			Thorough coverage is essential to achieve control.		
	Imported Cabbageworm				_	
	Japanese Beetle (adult)			*Not Registered for use by California.		Deleted:
	Leafhoppers					Deleted: in
	Loopers					
	Saltmarsh Caterpillar					
	Stink Bugs					
	Thrips Tobacco Budworm					
	Whitefly					
	Wireworm (adults)					
	Banks Grass Mite	0.08_0.10	5.12 - 6.4			Deleted: to
	Twospotted Spider Mite	0.00 0.10	5.12 0.4			
	Carmine Mite					Deleted: to
	Pacific Spider Mite					Deleted: 1
	Lygus spp.					
ESTRICTIONS:	-7.300 obb.	1				
	oply more than 25.6 fl. oz. (0	4 lb. <u>ai) of A11</u>	.02 per acre p	er year.	[Deleted: active ingredient (25.6 ounces formulated
	nake more than 4 application				< ⊱	Deleted:)
			t do not make	applications less than 7 days apart.	L	releteu:)

L	EAFY	PESTIOL	E VEGE	TABLES

		RATE					
CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS			
Cardoon	Aphids	0.033 to	2.1 to 6.4	Ground Application: Apply in water in a minimum of 10			
Celery	Armyworms	0.10		gallons per acre.			
Celtuce	Corn Earworm						
Chinese Celery	Crickets			Air Application: Apply in water in a minimum of 2 gallons per			
Florence Fennel	Cucumber Beetles			acre.			
Rhubarb	Cutworms						
Swiss Chard	Diamondback Moth			Thorough coverage is essential to achieve control.			
	Flea Beetles						
	Ground Beetles						
	Leafhoppers						
	Loopers						
	Stink Bugs						
	Thrips						
	Wireworm (Adults)						
	Carmine Mite	0.08 to 0.10	5.12 to 6.4				
	Lygus spp.						
	Pacific Spider Mite						
	Twospotted Spider Mite						
DECEDICATIONS.	· · · · · · · · · · · · · · · · · · ·						

RESTRICTIONS:

- Do not apply more than 32 fl. oz. (0.5 lb. ai) of A110.02 per acre per year.
- Do not make more than 5 applications per year.
- Repeat applications if needed to maintain control, but do not make applications less than 7 days apart.
- Do not apply within 7 days of harvest (PHI).

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PEST	LB AI/A	FL OZ/A	\neg	APPLICATION INSTRUCTIONS	Formatted Table
Aphids	0.033-0.10	2.1-6.4	Ground	d Application: Apply in water in a minimum of 15 gallons per acre.	Formatted rable
Armyworms					
Corn Earworm			Air Apı	plication: Apply in water in a minimum of 5 gallons per acre.	
Cucumber Beetles					
Cutworms				fied oil may be substituted for water. See section entitled MIXING	Formatted: Justified
Diamondback Moth				JCTIONS for details on the amount of oil to use in the spray tank in lieu of	
Flea Beetle			water.		
mported Cabbageworm					 Deleted:
Leafhoppers					
Loopers					
Salt Marsh Caterpillar					
Stink Bug spp.					
Tobacco Budworm					
Whitefly					
Carmine Mite	0.08-0.10	5.12-6.4			
Lygus spp.					
Twospotted Spider Mite					 Deleted:
RESTRICTIONS:					
To maintain a pro				cations less than 7 days apart.	
To maintain a proDo not apply mo	re than <u>32 fl. oz (</u>	(0.5 lb. <u>ai)</u>	of A110.02	cations less than 7 days apart. per acre per year.	 Deleted: active ingredient (32 ounces formulated
To maintain a proDo not apply moDo not make mo	ore than <mark>32 fl. oz (</mark> ore than 5 applica	(0.5 lb. <u>ai) o</u> ations per y	of A110.02 /ear.	, .	 Deleted: active ingredient (32 ounces formulated
To maintain a proDo not apply mo	ore than <mark>32 fl. oz (</mark> ore than 5 applica	(0.5 lb. <u>ai) o</u> ations per y	of A110.02 /ear.	, .	 Deleted: active ingredient (32 ounces formulated
To maintain a pro Do not apply mo Do not make mo Do not apply with	ore than <mark>32 fl. oz (</mark> ore than 5 applica	(0.5 lb. <u>ai) o</u> ations per y	of A110.02 /ear.	, .	 Deleted: active ingredient (32 ounces formulated
To maintain a proDo not apply moDo not make mo	ore than <mark>32 fl. oz (</mark> ore than 5 applica	(0.5 lb. <u>ai) c</u> ations per y rvest (PHI).	of A110.02 /ear.	, .	 Deleted: active ingredient (32 ounces formulated
To maintain a pro Do not apply mo Do not make mo Do not apply with	ore than <mark>32 fl. oz (</mark> ore than 5 applica	(0.5 lb. ai) g ations per y rvest (PHI). RATE	of A110.02 /ear.	, .	 Deleted: active ingredient (32 ounces formulated
To maintain a pri Do not apply mo Do not make mo Do not apply with MAYHAW*	ore than 32 fl. oz (ore than 5 applica hin 7 days of han	(0.5 lb. ai) cations per yrvest (PHI).	of A110.02 (per acre per year.	 Deleted: active ingredient (32 ounces formulated
To maintain a pre Do not apply mo Do not make mo Do not apply with MAYHAW* PEST	ore than 32 fl. oz (ore than 5 applica hin 7 days of ham LB AI,	(0.5 lb. ai) cations per yrvest (PHI).	of A110.02 year.	APPLICATION INSTRUCTIONS Ground Application: Apply in water in a minimum of 28 gallons of finished	Deleted: active ingredient (32 ounces formulated
To maintain a pre Do not apply mo Do not make mo Do not apply with MAYHAW* PEST	ore than 32 fl. oz (ore than 5 applica hin 7 days of ham LB AI,	(0.5 lb. ai) cations per yrvest (PHI).	of A110.02 year.	per acre per year. APPLICATION INSTRUCTIONS	 Deleted: active ingredient (32 ounces formulated
To maintain a pre Do not apply mo Do not make mo Do not apply with MAYHAW* PEST	ore than 32 fl. oz (ore than 5 applica hin 7 days of ham LB AI,	(0.5 lb. ai) cations per yrvest (PHI).	of A110.02 year.	APPLICATION INSTRUCTIONS Ground Application: Apply in water in a minimum of 28 gallons of finished	Deleted: active ingredient (32 ounces formulated
To maintain a pre Do not apply mo Do not make mo Do not apply with MAYHAW* PEST	ore than 32 fl. oz (ore than 5 applica hin 7 days of ham LB AI,	(0.5 lb. ai) cations per yrvest (PHI).	of A110.02 year.	APPLICATION INSTRUCTIONS Ground Application: Apply in water in a minimum of 28 gallons of finished spray per acre.	Deleted: active ingredient (32 ounces formulated
To maintain a pre Do not apply mo Do not make mo Do not apply with MAYHAW* PEST	ore than 32 fl. oz (ore than 5 applica hin 7 days of ham LB AI,	(0.5 lb. ai) cations per yrvest (PHI).	of A110.02 year.	APPLICATION INSTRUCTIONS Ground Application: Apply in water in a minimum of 28 gallons of finished spray per acre. Air Application: Apply in water in a minimum of 2 gallons per acre.	Deleted: active ingredient (32 ounces formulated
To maintain a pre Do not apply mo Do not make mo Do not apply with MAYHAW* PEST Plum Curculio	re than 32 fl. oz (pre than 5 applica hin 7 days of han LB Al, 0.08 -0	(L.S lb., ai) cycles ations per y rvest (PHI). RATE I/A I 0.10 5	of A110.02 (vear.	APPLICATION INSTRUCTIONS Ground Application: Apply in water in a minimum of 28 gallons of finished spray per acre. Air Application: Apply in water in a minimum of 2 gallons per acre.	Deleted: active ingredient (32 ounces formulated Deleted: active ingredient (12.8 ounces formulated
To maintain a pre Do not apply mo Do not make mo Do not apply with MAYHAW* PEST Plum Curculio	re than 32 fl. oz (pre than 5 applica hin 7 days of han LB Al, 0.08 -C	(0.5 lb. ai) carrier (1.5 lb.	rear. FL OZ/A 5.12 -6.4	APPLICATION INSTRUCTIONS Ground Application: Apply in water in a minimum of 28 gallons of finished spray per acre. Air Application: Apply in water in a minimum of 2 gallons per acre. Apply in sufficient water to obtain uniform coverage as needed.	
To maintain a pre Do not apply mo Do not make mo Do not apply with MAYHAW* PEST Plum Curculio RESTRICTIONS: Do not apply mo Do not apply mo Do not make mo	re than 32 fl. oz (pre than 5 applica hin 7 days of han LB Al, 0.08 -C	(0.5 lb. ai) cations per y rvest (PHI). RATE I/A 0.10 5	of A110.02 rear. FL OZ/A 5.12 -6.4	APPLICATION INSTRUCTIONS Ground Application: Apply in water in a minimum of 28 gallons of finished spray per acre. Air Application: Apply in water in a minimum of 2 gallons per acre. Apply in sufficient water to obtain uniform coverage as needed.	
To maintain a pre Do not apply mo Do not make mo Do not apply with MAYHAW* PEST Plum Curculio RESTRICTIONS: Do not apply mo Do not make mo To maintain a pre Do not apply with	re than 32 fl. oz (pre than 5 applica hin 7 days of han LB Al, 0.08 -C pre than 12.8 fl. oz pre than 2 applica oper spray interv hin 30 days of ha	(0.5 lb. ai) cations per y rvest (PHI). RATE I/A I 0.10 5 DZ. (0.2 lb. ai) ations per y val, do not u arvest (PHI)	of A110.02 year. FL OZ/A 5.12 -6.4 ai) of A110.02 year. make applic .	APPLICATION INSTRUCTIONS Ground Application: Apply in water in a minimum of 28 gallons of finished spray per acre. Air Application: Apply in water in a minimum of 2 gallons per acre. Apply in sufficient water to obtain uniform coverage as needed.	
To maintain a pre Do not apply mo Do not make mo Do not apply with MAYHAW* PEST Plum Curculio RESTRICTIONS: Do not apply mo Do not make mo To maintain a pre	re than 32 fl. oz (pre than 5 applica hin 7 days of han LB Al, 0.08 -C pre than 12.8 fl. oz pre than 2 applica oper spray interv hin 30 days of ha	(0.5 lb. ai) cations per y rvest (PHI). RATE I/A I 0.10 5 DZ. (0.2 lb. ai) ations per y val, do not u arvest (PHI)	of A110.02 year. FL OZ/A 5.12 -6.4 ai) of A110.02 year. make applic .	APPLICATION INSTRUCTIONS Ground Application: Apply in water in a minimum of 28 gallons of finished spray per acre. Air Application: Apply in water in a minimum of 2 gallons per acre. Apply in sufficient water to obtain uniform coverage as needed.	

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PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Aphids	0.033 - 0.10	2.1 - 6.4	Ground Application: Apply in water in a minimum of 10 gallons of finished
Armyworms			spray per acre.
Corn Earworm			P. M. P. C.
Cucumber Beetles			Air Application: Apply in water in a minimum of 2 gallons per acre.
Cutworms			Pr Pr
European Corn Borer			Apply in sufficient water to obtain uniform coverage as needed.
Flea Beetles			7,
Japanese Beetle (Adult)			
Leafminers			
Loopers			
Stink bugs			
Thrips			
Whitefly			
Broad Mite	0.08 - 0.10	5.12 - 6.4	
Carmine Mite			
Lygus spp.			
Two Spotted Spider Mite			
DECEMBER 10110	· ·		

RESTRICTIONS:

- To maintain a proper spray interval, do not make applications less than 7 days apart.
- Do not apply more than 12.8 fl. oz (0.20 lb. ai) of A110.02 per acre per year.
- Do not make more than 2 applications per year.
- Do not apply within 7 days of harvest (PHI).

PEANUT *

	RATE		
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Beet Armyworm	0.033 - 0.1	2.1 - 6.4	Ground Application: Apply in water in a minimum of 10 gallons of finished
Corn Earworm			spray per acre.
Cutworm species			
Fall Armyworm			Air Application: Apply in water in a minimum of 2 gallons per acre.
Grasshoppers			
Green Cloverworm			Apply in sufficient water to obtain uniform coverage as needed.
Leafhoppers			
Lesser Cornstalk Borer			
Loopers			
Rednecked Peanut Worm			
Southern Armyworm			
Southern Corn Rootworm			
Stink Bugs			
Threecornered Alfalfa Hopper			
Velvetbean Caterpillar			
Yellowstriped Armyworm			
Aphids	0.06 - 0.1	3.8 - 6.4	
Spider Mites			
Thrips			
Whitefly			
DECEMBER 10110			

RESTRICTIONS:

- Do not apply more than 32 fl. oz. (0.5 lb. ai) of A110.02 per acre per year.
- Do not make more than 5 applications per year.
- To maintain a proper spray interval, do not make applications less than 14 days apart.
- Do not feed immature plants and peanut hay to livestock.
- Do not apply within 14 days of harvest (PHI).

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PEARS

	RA	TE	
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Aphids	0.04 - 0.2	2.6 - 12.8	Ground Application: Apply in water in a minimum of 200 gallons per acre
Codling Moth			(dilute) and 50 gallons per acre (concentrate).
Cutworms			
Green Fruitworm			Air Application: Apply in water in a minimum of 10 gallons per acre by air.
Leafhoppers			
Leafminers			
Leafrollers			
Lygus spp.			
Plant Bugs			
Plum Curculio			
San Jose Scale (Crawlers)			
Stink Bugs			
Tarnished Plant Bugs			
Twospotted Spider, Mite	0.06 - 0.2	3.8 - 12.8	
Yellow Mite			
European Red Mite	0.08 - 0.2	5.12 - 12.8	
RESTRICTIONS:			
• Do not annly more t	han 22 fl oz /0 E	Ib a:\ a£ 644	0.03 per sere per year with no more than 30.9 ft or (0.45 lb ai) per sere applied

- Do not apply more than 32 fl. oz. (0.5 lb. ai) of A110.02 per acre per year with no more than 28.8 fl. oz. (0.45 b. ai) per acre applied after petal fall.
- Do not make more than 3 applications per year.
- To maintain a proper spray interval, do not make applications less than 30 days apart.
- Do not graze livestock in treated orchards or cut treated cover crops for feed.
- Do not apply within 14 days of harvest (PHI).

ROOT CROPS (except Sugar Beets)

		RA*	ΓE	
CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Burdock, edible	Aphids	0.08 0.10	5.12 6.4	Ground Application: Apply in water in a minimum
Carrot	Beet Armyworm			of 25 gallons of finished spray per acre.
Celeriac	Celery Leaftier			
Chervil, Turnip rooted	Corn Earworm			Air Application: Apply in water in a minimum of 2
Chicory	Cross-Striped Cabbageworm			gallons per acre.
Ginseng	Cutworm species			
Horseradish	Diamondback moth			Apply in sufficient water to obtain uniform
Parsley, Turnip rooted	European Corn Borer			coverage as needed.
Parsnip	Fall Armyworm			
Radish	Fire Ants			
Radish, Oriental	Flea Beetles			
Rutabaga	Green Cloverworm			
Salsify	Hornworms			
Salsify, Black	Imported Cabbageworm			
Salsify, Spanish	Loopers			
Skirret	Southern Armyworm			
Turnip	Spider Mites			
	Tobacco Budworm			
	Velvetbean Caterpillar			
	Whitefly			
	Yellowstriped Armyworm			

RESTRICTIONS:

- Do not apply more than 32 fl. oz. (0.5 lb. ai) of A110.02 per acre per year.
- Do not make more than 5 applications per year.
- To maintain a proper spray interval, do not make applications less than 7 days apart.
- Do not apply within 21 days of harvest (PHI).

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CROP	PEST	LB AI/A	FL OZ/A	COMMENTS
Garden Beet	Aphids	0.08 - 0.10	5.12 - 6.4	Ground Application: Apply in water in a minimum of 25
	Fire Ants Flea Beetles			gallons of finished spray per acre.
	Lepidopterous Larvae			Air Application: Apply in water in a minimum of 2 gallons
	Spider Mites Whitefly			per acre.
				Apply in sufficient water to obtain uniform coverage as needed.

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RESTRICTIONS:

- Do not apply more than <u>25.6 fl. oz. (</u>0.40 lb.<u>ai) of A110.02</u> per acre per year.
 Do not make more than 4 applications per year.
- To maintain a proper spray interval, do not make applications less than 7 days apart. Do not apply within 1 day of harvest (PHI).

SOYBEANS

-	RAT	E	
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Alfalfa Caterpillar	0.033 - 0.10	2.1 - 6.4	Ground Application: Apply in water in a minimum of 10 gallons per acre.
Aphids			
Aster Leafhopper			Air Application: Apply in water in a minimum of 2 gallon per acre.
Bean Leaf Beetle			
Beet Armyworm*			*Double-id seistere is seen for Double Assessment Telesco
Cloverworm			*Pyrethroid resistance is common for Beet Armyworm and Tobacco
Corn Earworm			Budworm. Consult your local extension specialist, certified crop advisor
Corn Rootworm Adult			and/or manufacturer for insecticide resistance management and/or IPN
Cucumber Beetles			guidance for the specific site and resistant pest problems.
Cutworms			
European Corn Borer			
Fall Armyworm			
Flea Beetle			
Grasshoppers			
Imported Cabbageworm			
Japanese Beetle Adult			
Leafhoppers			
Leafminers			
Loopers			
Mexican Bean Beetle Adult			
Pea Leaf Weevil			
Pea Weevil			
Plant Bug			
Saltmarsh Caterpillar			
Sap Beetle			
Southern Armyworm			
Soybean Aphid			
Stink Bugs			
Tarnished Plant Bug			
Thrips			
Tobacco Budworm*			
Webworms			
Western Bean Cutworm			
Whitefly			
Yellowstriped Armyworm			
Lygus spp.	0.08 - 0.10	5.12 - 6.4	1
Whitefly			
Twospotted Spider Mite			
RESTRICTIONS:	1	I.	

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- To maintain a proper spray interval, do not make applications less than 30 days apart.
 Do not apply more than 12.8 fl. oz. (0.3 lb. ai) of A110.02 per acre per year.

- Do not make more than 3 applications per year.
- Do not apply within 18 days of harvest (PHI).

SPINACH

	RA	TE	ADDUCATION INSTRUCTIONS		
PESTS	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS		
Armyworms Colorado Potato Beetle	0.033 - 0.10	2.1 – 6.4	Ground Application: Apply in water in a minimum of 10 gallons per acre.		
Corn Earworm			Air Application: Apply in water in a minimum of 5 gallons per acre.		
Cucumber Beetles Cutworms			For whitefly and fire ant control either at planting or as a foliar treatment apply		
European Corn Borer			up to 6.4 fl. oz. (0.1 lb. active) per acre being careful not to exceed reapplication		
lea Beetles			intervals or maximum labeled rates specified in this section.		
eafminers					
oopers					
Pepper Weevil					
hrips					
omato Hornworm					
Tomato Pinworm					
/hitefly					
anks Grass Mite	0.08 - 0.10	5.12 - 6.4			
Broad Mite					
Carmine Mite					
Fire Ants					
Lygus spp.					
Pacific Spider Mite Twospotted Spider Mite					
nwospotted spider wite					

 ${\bf RESTRICTIONS:}$

- To maintain a proper spray interval, do not make applications less than 7 days apart.
- Do not apply more than 25.6 fl. oz. (0.4 lb. active ingredient) of A110.02 per acre per year.
- Do not make more than 4 applications per year.
- Do not apply within 40 days of harvest (PHI).

STRAWBERRIES

	R/	ATE	
PESTS	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Aphids	0.04 - 0.2	2.56 - 12.8	Apply when pest populations reach damaging thresholds and repeat as
Armyworms			necessary at 7-14 day intervals.
Fleabeetles			
Hehothis spp.			Ground Application: Apply a full cover spray in a minimum of 50 gallons of
Leafrollers			finished spray per acre
Lygus spp.			
Plant Bugs			Air Application: (Aerial application is prohibited in Florida) Apply specified
Spittlebugs			dosage in a minimum of 5 gallons per acre.
Stink Bugs			
Strawberry Clipper			
Strawberry Sap Beetle			
Strawberry Root Weevil Black Vine Weevil	0.050.2	3.212.8	
Spider mites	0.1 - 0.2	6.4 - 12.8	
DESTRICTIONS:			

RESTRICTIONS

- Do not apply more than 32 fl. oz (0.5 lb. active ingredient) of A110.02 per acre per year.
- Do not make more than 12 applications per acre per year when using reduced application rates.
- No preharvest interval is required.

CALIFORNIA SPECIFIC REQUIREMENTS FOR STRAWBERRY HARVESTERS

Harvesters and other personnel performing tasks with all day foliage contact in treated fields within five (5) days of application must wear a long-sleeved shirt long pants and shoes plus socks.

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Following treatment of strawberry fields at rates of A110.02 greater than 0.1 lb ai/acre harvesters must wear gloves for five (5) days following application.

SUCCULENT PEAS AND BEANS

		RATE			
CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS	-
Pea (Pisum spp.)	Aster Leafhopper	0.025 - 0.10	1.6 - 6.4	Ground Application: Apply in water in a minimum of 10 gallons	
Dwarf Pea	Flea Beetle			per acre.	
Edible-pod Pea	Grasshoppers				
English Pea	Leafhoppers			Air Application: Apply in water in a minimum of 2 gallons per	
Garden Pea	Alfalfa Caterpillar	0.033 - 0.10	2.1 - 6.4	acre. Emulsified oil may be substituted for water.	
Green Pea	Aphids				
Snow Pea	Bean Leaf Beetle			See section entitled MIXING INSTRUCTIONS for details on	٠.
Sugar Snap Pea	Beet Armyworm			amount of oil to use in the spray tank.	
Pigeon Pea	Cloverworm				
Bean (Phaseolus spp.)	Corn Earworm				
Broadbean,	Corn Rootworm Adult				-
(succulent)	Cucumber Beetle				
Lima bean (green)	Cutworms				
Runner bean	European Corn Borer				
Snap bean	Fall Armyworm				
Wax bean	Japanese Beetle Adult				-
Bean (Vigna spp.)	Loopers				
Asparagus Bean	Pea Leaf Weevil				١.
Blackeyed Pea	Pea Weevil				
Chinese Longbean	Plant Bugs				
Cowpea	Sap Beetle				
Moth Bean	Southern Armyworm				
Southern Pea	Stink Bugs				
Yardlong bean	Tarnished Plant_Bug				
Jackbean	Thrips				
Soybean	Webworms				
(immature seed)	Western Bean_Cutworm				
Sword bean	Whitefly				
	Yellowstriped Armyworm				
	Banks Grass Mite	0.08 - 0.10	5.12 - 6.4		٦.
	Carmine Mite				
	Lygus spp.				
	Twospotted Spider Mite				

- Do not make more than 2 applications per year.
- Do not make applications less than 3 days apart.
- Do not apply within 3 days of harvest (PHI).

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TOBACCO

RATE		ΓE	
PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Armyworm spp.	0.0625 - 0.10	4.0 - 6.4	Pre-Transplant Soil Applications: Apply 4.0 – 6.4 fl. oz (0.0625 - 0.1 lb. ai) per
Cutworm spp.			acre in a minimum of 10 gallons per acre to control soil pests. Use of suitable
Mole Crickets			equipment to incorporate into top 4" of the soil is required to control below-
Stalkborers			ground pests.
Tobacco Flea Beetle (larvae)			
White Grubs			Transplant Water Treatment Application: Apply 0.0625 - 0.1 lb. active
Wireworms			ingredient per acre in a water treatment application volume of 10200
			gallons per acre.
Aphid spp.	0.04 - 0.10	2.56 - 6.4	Foliar Applications: Apply 2.56 – 6.4 fl. oz. (0.04 - 0.1 lb. ai) per acre foliar
Armyworm spp.			application up to and including layby in a minimum of 10 gallons per acre.
Flea Beetle (Adult)			
Chinch bugs			
Stink bugs			
Japanese Beetles			
Grasshoppers			
Cutworm spp.			
Tarnished Plant Bugs			
Green bugs			
Thrips			
Whiteflies			
Spider Mites	0.10	6.4	
Lygus spp.			

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RESTRICTIONS:

- For foliar applications, do not make more than 2 applications per year.
- May be tank mixed with herbicides approved for tobacco use.
- For all applications do not apply more than <u>12.8 fl. oz. (0.2 lb. ai) of A110.02</u> per acre per year.
- Do not apply later than layby.

TREE NUT CROPS

		R.A	ATE	
CROPS	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Almond	Black Pecan Aphid	0.052 - 0.20	3.2 - 12.8	Ground Application: Apply as a dilute (minimum of 200
Beech nut	Codling Moth			gallons of finished spray per acre) or concentrate
Brazil nut	Filbert Worm			(minimum of 50 gallons of finished spray per acre) spray
<u>Butternut</u>	Hickory Shuckworm			in sufficient water to provide thorough coverage.
Cashew	Leaffooted Bugs			
Chestnut	Navel Orangeworm			Air Application: Apply in a minimum of 10 gallons of
<u>Chinquapin</u>	Oblique Banded Leafroller			finished spray per acre.
Filbert (hazelnut)	Peach Twig Borer			
Hickory nut	Pecan Leaf Casebearer			
Macadamia nut (bush	Pecan Nut Casebearer			
<u>nut)</u>	Pecan Phylloxera			
<u>Pecan</u>	Plant Bugs			
<u>Pistachio</u>	Stink Bugs			
Walnut (Black & English)	Walnut Aphid			
	Yellow Pecan Aphid			
	European Red Mite	0.08 - 0.20	5.1 - 12.8	
	Spider Mites			
	Fire Ants	0.1_0.20	6.4 - 12.8	
	Walnut Husk Fly			
RESTRICTIONS:	*	*		.

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Tree Nut Crops: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, pistachio, and Walnut (Black & English)¶

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RESTRICTIONS:

- Minimum spray intervals: Apply A110.02 as needed to maintain control, but not apply at intervals sooner than 15 days.
- Do not exceed 12.8 fl. oz. (0.2 lb. ai) of A110.02 per acre per application.
- Do not exceed <u>32 fl. oz. (</u>0.50 lb. <u>ai) of **A110.02** per acre per year.
 </u>
- Do not make more than 3 applications per year.
- Do not graze livestock in treated orchards or cut treated cover crops for feed.
- Do not apply within 21 days of harvest (PHI) for Pecans.

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• Do not apply within 7 days of harvest (PHI) for all other <u>registered tree</u> nut crops.

TUBEROUS AND CORM VEGETABLES

	RATE		TE	
CROP	PEST	LB AI/A	FL OZ/A	APPLICATION INSTRUCTIONS
Arracacha	Corn Wireworm	0.30	19.2	In-Furrow planting time treatment: A110.02 may be applied as
Arrowroot	Tobacco Wireworm	(at-plant)	(at-plant)	an in-furrow planting time treatment for the control of
Potato	Japanese Beetle	0.05 - 0.15	3.2 - 9.6	wireworms, rootworms, and white grubs. Apply A110.02 at the
Chinese Artichoke	Grubs	(layby)	(layby)	rate of 0.3 lb. active ingredient per acre as an in-furrow spray or T-
Jerusalem Artichoke	June Beetle			band spray at planting time.
Edible Canna	Southern Potato			
Cassava (bitter &	Wireworm			Lay-By treatment: A110.02 may be applied as a layby treatment
sweet)	Banded Cucumber	0.033 - 0.10	2.1 - 6.4	for the control of wireworms, rootworms and white grubs. Apply
Chayote (root)	Beetle	(foliar)	(foliar)	A110.02 to the drill area and cover with soil utilizing cultivation
Chufa	Black Flea Beetle			equipment set to throw soil to the drill area.
Dasheen (taro)	Cucumber Beetle			
Ginger	Rootworms			Apply A110.02 as a banded spray over the row at a rate of 0.05 -
Leren	Sweetpotato Flea			0.15 lb. active ingredient per acre (3.2 - 9.6 ounces formulated) in
Potato	Beetle			10 gallons per acre of spray.
Sweet Potato	Sweetpotato Weevil			
Tanier	Whitefringed Beetle			Foliar spray: A110.02 may be applied as a foliar spray for the
Turmeric	White Grub			control of the adult life stages of flea beetles, click beetles
Yam bean	Sugarcane Beetle			(wireworms), cucumber beetles (rootworms), whitefringed
True yam				beetles and May/June beetles (white grubs). Apply A110.02 at the
				rate of 0.033 to 0.10 lb. active ingredient per acre (2.1 to 6.4
				ounces formulated) in 10 gallons of spray by ground and 3 gallons
				of spray by air.

RESTRICTIONS:

- For foliar applications, do not make more than 2 foliar applications per year and do not make application less than 21 days apart.
- Do not apply more than 32 fl. oz. (0.5 lb. ai) of A110.02 per acre per year, including soil applications.
- Do not apply within 21 days of harvest (PHI).

ORNAMENTALS*

*NOT <u>REGISTERED</u> FOR USE ON ORNAMENTALS AND TREES (FIELD AND CONTAINER GROWN NURSERY STOCK, CHRISTMAS TREES, INTERIORSCAPES AND PLANTSCAPES, LAWNS, TREES AND SHRUBS, AND ON GOLF COURSES AND SOD FARMS) BY CALIFORNIA.

For use on plants intended for aesthetic purposes or climatic modifications and being grown in interior plantscapes and on outdoor ornamentals, Christmas trees, nurseries, lawns, sod farms and golf courses.

Note: Applicators to Christmas trees and sod farms must use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Applicators to Christmas trees and sod farms must conform to the labeling requirements outlined in the AGRICULTURAL USE REQUIREMENTS box.

USE INSTRUCTIONS

A110.02 mixes with water and other aqueous carriers to control a broad assortment of insects and mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in interiorscapes, including hotels, shopping malls, office buildings and outdoor plantscapes: nurseries, residential dwellings, parks, institutional buildings, recreational areas, athletic fields, golf courses, sod farms, and home lawns. Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity in 365 days following application.

For soil or foliar applications, do not apply by ground within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.

Do not spray the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.

Do not allow the product to enter any drain during or after application.

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Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios.

Do not apply or irrigate to the point of runoff.

Do not apply when the wind speed is greater than 15 mph.

A110.02 may be tank-mixed with other products, including insect growth regulators. When tank mixing **A110.02** with other products observe all precautions and limitations on each separate product label. The addition of spreader stickers is not necessary. The physical compatibility of **A110.02** may vary with different sources of pesticide products, and local cultural practices. Any tank mixture which has not been previously tested should be prepared on a small scale (pint or quart jar), using the proper proportions of chemicals and water to ensure the physical compatibility of the mixture.

The following procedure is recommended for preparation of a new tank mix, unless specified otherwise in label directions:

- 1. Add wettable powders to tank water
- 2. Agitate
- 3. Add fluids and flowables
- 4. Agitate
- 5. Add emulsifiable concentrates
- 6. Agitate

If a mixture is found to be incompatible following the order of addition, try reversing the order of addition, or increase the volume of water

Note: If the tank mixture is found to be compatible after increasing the amount of water then the sprayer will need to be recalibrated for a higher volume application. Do not allow tank mix to stand overnight. 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. Provide constant agitation to keep the mixture in solution.

APPLICATION INSTRUCTIONS

TRUNK SPRAYS TO ORNAMENTAL TREES AND CHRISTMAS TREES

For Control of Bark Beetles and Boring Beetles

Refer to the table below. Application rates and timing differ according to the target pest and other factors specific to each local situation. Consult your local State Extension specialist or other qualified expert for recommendations. **Note:** Do not apply more than 12.8 fl. oz. (0.2 lbs. Al) per acre of this product to trees. Repeat application may be necessary if reinfestation is likely.

Than 12.8 ii. 02. (0.2 ibs. Ai) per acre of	this product to trees. Re	peat application may be	necessary if reinfestation is likely.
PEST	RATE FL. OZ./100 GALLONS	SPRAY VOLUME	REMARKS AND RESTRICTIONS
Dandroctonus bark beetles	16 -32	Use 1-4 gallons of	Make applications to the trunk of the tree
mountain pine beetle	(0.25 – 0.5 lb. Al	finished spray per tree.	with a hydraulic sprayer in the early spring or
southern pine beetle	per 100 gallons)	. , ,	prior to adult beetle flight and tree
western pine beetle			infestation.
black turpentine beetle.			
Engraver beetle (Ips spp.)	16 – 32,	Use 10-14 gallons of	Apply spray directly to the main trunk from
	(0.25 – 0.5 lb. Al per	finished spray per tree.	the base of the tree to at least half-way into
	100 gallons)		the live crown. Spray until the bark is
			thoroughly wet.
Other bark beetles	16 – 32	Use 2-5 gallons of	Make applications of a spray mixture to the
ambrosia beetles	(0.25 – 0.5 lb. Al per	finished spray per tree.	trunk, scaffolding and limbs of the tree with a
elm bark beetles	100 gallons)		hydraulic sprayer in the early spring or prior
metallic wood borers such as emerald ash			to adult beetle flight and tree infestations.
borer.			Spray until the bark is thoroughly wet.
Clearwing moth borers	6.4 – 12.8	Use 1-4 gallons of	Apply to the branches and trunks prior to
ash borer	(0.1 – 0.2 lb. Al per 100	finished spray per tree.	adult emergence. Spray until the bark is
banded ash clearwing	gallons)		thoroughly wet. For maximum residual
dogwood borer			control, use highest labeled rate.

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bronze birch borer flatheaded apple tree borer		Deleted: ¶
Treatment of Infected Trees to Control Emergi	ng Prood	 ¶ Coleopteran borers bronze birch borer, flatheaded apple tree borer

Make applications of a spray mixture containing 2.0 pints of A110.02 per 100 gallons of water to trees that still have beetles in the bark. Apply spray directly to the main trunk from the base of the tree to at least half-way into the live crown. Spray until the bark is thoroughly wet (usually 1 to 4 gallons of spray per tree). Do not apply more than 12.8 fl. oz. (0.2 lbs. Al) of this product to trees per

Trees on which all needles have turned brown generally have been vacated and should not be sprayed unless infestation is confirmed. To confirm an infestation, scrape off the outer bark to determine if trees are still infested. If live infestations remain in the trunks, fell the trees and cut into sections. Spray the trunk and large limbs and turn sections so that all of the surface area can be treated. Do not apply more than 12.8 fl. oz (0.2 lbs. Al) of this product to trees per acre.

FOLIAR SPRAYS TO ORNAMENTALS AND TREES

(Field and Container Grown Nursery Stock, Christmas Trees, Interiorscapes and Plantscapes, Lawns, Trees and Shrubs, and on Golf Courses and Sod Farms)

For applications to ornamentals (trees, shrubs, ground covers, bedding plants and foliage plants, conifers (field and container grown), Christmas Trees and pine seed orchards) apply 0.04 to 0.32 fl. oz. A110.02 per 1,000 sq. ft. or 1.8 to 14.4 fl. oz. per 100 gallons. A110.02 may be diluted and applied in various volumes of water providing that the maximum label rate (0.32 fl. oz. per 1,000 sq. ft. or 14.4 fl. oz. per 100 gallons) is not exceeded. A110.02 may be applied through low volume application equipment by dilution with water or other carriers and providing that the maximum label rate (0.32 fl. oz. per 1,000 sq. ft. or 14.4 fl. oz. per 100 gallons) is not exceeded.

Statements for Outdoor Applications at Commercial Nurseries

lications at Commercial Nurseries

- Do not apply when the wind speed is greater than 15 mph.
- Applicators are required to select the nozzle and pressure that deliver a medium or coarser droplet size (ASABE S572).
- For soil or foliar applications, do not apply by ground equipment within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.
- Do not make applications during rain. Avoid making applications when rainfall is expected before the product has sufficient time to dry (minimum 4 hours).
- Rainfall within 24 hours after application may cause unintended runoff of pesticide application.

Calculating Dilution Rates Using the Ornamental Application Rates Table and the A110.02 Dilution Chart

Use the following steps to determine the appropriate dilution of this product required to control the specific pests:

- 1. Find the least susceptible target pest (the pest that requires the highest application rate for control).
- Select an application rate in terms of fluid ounces of this product.
- Find your application volume and how much spray you want to prepare.
- Use the Ornamental Dilution Chart to determine the appropriate volume of this product that must be mixed in your desired volume of water.

For example, to control black vine weevil adults on rhododendron, the Ornamental Application Rates table shows that 0.08 to 0.16 fl. oz. of this product should be applied per 1,000 sq. ft. You select an application rate of 0.16 fl. oz. per 1,000 sq. ft. because maximum residual control is desired. Your application volume is approximately 300 gallons per acre which is equivalent to 6.9 gallons per 1,000 sq. ft. Consulting the Ornamental Dilution Chart shows that you should dilute 0.24 fl. oz. of this product in 10 gallons of water.

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A110.02 ORNAMENTAL DILUTION CHART Fluid Ounces (mL) of A110.02 diluted to the Volumes of Finished Spray Application Rate 1 Gallon 5 Gallons 10 Gallons 100 Gallons Fl. oz./1,000 Fl. oz. mL Fl. oz. Fl. oz. mL sq. ft. 53.2 106.5 0.04 0.018 0.5 0.09 2.6 0.18 5.3 1.8 0.08 0.036 1.1 0.18 5.3 0.36 10.6 3.6 212.9 425.9 0.16 0.072 2.1 0.36 10.6 0.72 21.3 7.2 0.32 0.144 0.72 42.6 14.4 4.3 21.3 1.44

Percent Active Ingredient of Spray Mix

(7.9)(Fl. Oz. of A110.02 added to tank)

(gallons of finished spray mix)(128)

ORNAMENTAL AND TREE FOLIAR APPLICATION RATES

The application rates listed in the following table will provide excellent control of the noted pests under typical conditions. However, at the discretion of the applicator, this product may be applied at up to 0.32 fl. oz. per 1,000 sq. ft (14.4 fl. oz. per 100 gallons) to control each of the pest listed in this table. The higher application rates should be used when maximum residual control is desired.

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PEST	RATE		REMARKS AND RESTRICTIONS
	FL. OZ / 1,000	FL. OZ / 100	
	SQ. FT.	GALLONS	
Bagworms ¹			¹ Bagworms: Apply when larvae begin to hatch and spray
Cutworms	0.04 - 0.08	1.8 – 3.8	larvae directly. Applications when larvae are young will be
Elm Leaf Beetles			most effective.
Fall Webworms			
Gypsy Moth Caterpillars			² Beetles, Scale Crawlers, Twig Borers, and Weevils: Treat
Lace Bugs			trunks, stems and twigs in addition to plant foliage.
Leaf Feeding Caterpillars			
Tent Caterpillars			³ Spider Mites: A110.02 provides optimal twospotted
Tussock moth			spider mite control when applied during spring to mid-
Adelgids	0.08 - 0.16	3.6 - 7.2	summer. Use higher labeled rates and/or more frequent
Ants	_		treatments for acceptable twospotted spider mite control
Aphids			during mid- to late-summer. The addition of a surfactant or
Bees			horticultural oil may increase the effectiveness of this
Beet Armyworm			product. Combinations of this product with other
Beetles ²			registered miticides have also proven effective. Alternately,
Black Vine Weevil (Adults)			A110.02 applications may be rotated with those of other
Scales, such as			products that have different modes of action in control
Brown Soft Scales			programs that are designed to manage resistance by
California Red Scale (Crawlers) ²			twospotted spider mites. Consult your local Cooperative
Elongated Hemlock Scale			Extension Service for resistance management
Pine Needle Scales (crawlers) ²			recommendations in your region.
San Jose Scales (Crawlers) ²			
Broad Mites			
Budworms			
Cicadas			
Citrus Thrips			
Clover Mites			
Crickets			
Earwigs			
European Red Mite			
Flea Beetles			
Fungus Gnats (Adults)			
Glassywinged Sharpshooter			
Grasshoppers			
Japanese Beetle (Adult)			
Leafhoppers			

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Leafrollers Mealybugs Mites Mosquitoes Nantucket Pine Tip Moth Pillbugs Pine sawflies Plant Bugs (Lygus spp.) Psyllids Scorpions Spider Mites³ Spiders Spittlebugs Thrips Tin Metho
Mites Mosquitoes Nantucket Pine Tip Moth Pillbugs Pine sawflies Plant Bugs (Lygus spp.) Psyllids Scorpions Spider Mites ³ Spiders Spittlebugs Thrips
Mosquitoes Nantucket Pine Tip Moth Pillbugs Pine sawflies Plant Bugs (Lygus spp.) Psyllids Scorpions Spider Mites ³ Spiders Spittlebugs Thrips
Nantucket Pine Tip Moth Pillbugs Pine sawflies Plant Bugs (Lygus spp.) Psyllids Scorpions Spider Mites ³ Spiders Spittlebugs Thrips
Pillbugs Pine sawflies Plant Bugs (<i>Lygus</i> spp.) Psyllids Scorpions Spider Mites ³ Spiders Spitlebugs Thrips
Pine sawflies Plant Bugs (Lygus spp.) Psyllids Scorpions Spider Mites ³ Spiders Spittlebugs Thrips
Plant Bugs (<i>Lygus</i> spp.) Psyllids Scorpions Spider Mites ³ Spiders Spittlebugs Thrips
Psyllids Scorpions Spider Mites ³ Spiders Spittlebugs Thrips
Scorpions Spider Mites³ Spiders Spittlebugs Thrips
Spider Mites ³ Spiders Spittlebugs Thrips
Spiders Spittlebugs Thrips
Spittlebugs Thrips
Thrips
Tie Marke
Tip Moths
Treehoppers
Twig Borers ²
Wasps
Weevils ² such as
White Pine Weevil
Pales Weevil Pales Weevil
Diaprepes adults
Orchid Weevil
White flies United States Stat
Zimmerman pine moths
Imported Fire Ants** 0.16 – 0.32 7.2 – 14.4 ** For foraging ants Deleted: fl. oz. per 1,000 sq. ft.
Leafminers Polotody /
Pecan Lear Scorch Milte
Pine Shoot Beetle (Adults) Deleted: fl. oz. per 100 gallons)
Spider Mites ³

BROADCAST SPRAYS TO TURFGRASS (lawns, golf courses, sod farms, parks).

Apply **A110.02** as a broadcast treatment. Use higher volumes up to 10 gallons of carrier per 1,000 square feet to get uniform coverage when treating dense grass foliage.

For low water volume usage, less than 2 gallons/ 1_c 000 square feet, addition of a non-ionic or silicone-based surfactant (0.25% v/v) is recommended. Irrigation to treated area within a few hours following application can improve efficacy to sub-surface pests such as, but not limited to, mole crickets.

Restrictions:

- In New York State, this product may NOT be applied to any grass or turf area within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).
- In New York State, do make a single repeat application of this product if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

Spray Drift Precautions (For Turf & Ornamental Uses)

- Do not apply when wind conditions laver downwind drift to nearby water bodies.
- ____Do not apply when wind velocity exceeds 10 miles per hour. Avoid application when wind gusts approach 10 mph.
- Apply using nozzles that provide the largest droplet size compatible with adequate coverage

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Turfgrass Application Rates

The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. However, at the discretion of the applicator, **A110.02** may be applied at up to 0.33 fl. oz. per 1000 square feet to control each of the pests listed in this table. Do not apply more than 14.72 fl. oz (0.23 lbs. Al) of this product to turfgrass per acre. Use the higher labeled rates when maximum residual control is desired or heavy pest populations occur.

		TE			
PEST	FL. OZ. / 1,000	LBS. AI/ 1,000	APPLICATION INSTRUCTIONS		
	SQ. FT.	SQ. FT.			
Armyworms ¹	0.05 _ 0.08 _	0.00078 -	¹ Armyworms, Cutworms and Sod Webworms: To ensure optimum control, delay watering		
Cutworms ¹	(2.18 - 3.48)	0.0012	(irrigation) or mowing for 24 hours after application. If the grass area is being maintained a		
Sod Webworm ¹	fl. oz./A)	(0.03 - 0.05	a mowing height of greater than 1 inch, use higher labeled rates (up to 0.33 fluid oz. pe		
		lbs. ai/A)	1,000 square feet (0.23 lbs. Al or 14.72 fl. oz per acre)) during periods of high pest pressure.		
Annual Bluegrass	0.08 _ 0.16	0.0012 -	² Annual Bluegrass Weevil (Hyperodes) adults: Time applications to control adult weevils as		
Weevil	(3.48 - 6.97)	0.0025	they leave their overwintering sites and move into grass areas. This movement generally		
(Hyperodes)	fl. oz./A)	(0.05 - 0.11)	begins when Forsythia is in full bloom and concludes when flowering dogwood (Carnet		
(Adult) ²		lbs. ai/A)	florida) is in full bloom. Consult your State Cooperative Extension Service for more specific		
Banks Grass Mite			information regarding application timing.		
Billbugs (Adult) ³			³ Billbug adults: Make applications when adult billbugs are first observed during April and		
Black Turfgrass			May. Degree day models have been developed to optimize application timing. Consult you		
Ataenius (Adult) ⁴			State Cooperative Extension Service for information specific to your region. In temperate		
Crickets			regions, spring applications targeting billbug adults will also provide control of over		
Earwigs			wintered chinch bugs.		
Fleas (Adult)			⁴ Black Turfgrass Ataenius adults: Make applications during May and July to control the firs		
Grasshoppers			and second generation of black turfgrass ataenius adults, respectively. Time the May		
Mealybugs			application to coincide with the full bloom stage of Vanhoutte spiraea (Spiraea vanhouttei		
Mites			and horse chestnut (Aesculus hippocastanum). Time the July application to coincide with		
			this blooming of Rose of Sharon (Hibiscus syriacus).		
			⁵ Mites: To ensure control of eriophyid mites, apply in combination with the labeled		
			application rate of a surfactant. A second application, five to seven days after the first, ma		
			be necessary to achieve acceptable control.		
Ants	0.16 _ 0.32 _	0.0025 -	⁶ Chinch Bugs: Chinch Bugs infest the base of grass plants and are often found in the thatch		
Chinch Bugs	(6.96 –	0.005	layer. Irrigation of the grass area before treatment will optimize the penetration at the		
Fleas (Larvae) ⁷	13.94 fl.	(0.11 - 0.22	insecticide to the area where the chinch bugs are located. Use higher volume applications		
Imported Fire Ants ⁸	oz./A)	lbs. ai/A)	if the thatch layer is excessive or if a relatively long mowing height is being maintained		
Japanese Beetle	, ,	, ,	Chinch bugs can be one of the most difficult pests to control in grasses and the highe		
(Adult)			labeled rates (up to 0.33 fluid oz. per 1,000 square feet (0.23 lbs. Al or 14.72 fl. oz pe		
Mole Cricket			acre)) may be required to control populations that contain both nymphs and adults during		
(Adult) ⁹			the middle of the summer.		
Mole Cricket			⁷ Flea larvae: Flea larvae develop in the soil of shaded areas that are accessible to pets o		
(Nymph)10			other animals. Use a higher volume application when treating these areas to ensure		
Ticks ¹¹			penetration of the insecticide into the soil. Note: if the lawn area is being treated with thi		
			product at 0.08 fluid oz, per 1,000 square feet for adult flea control, then the larva		
			application rate may be achieved by increasing the application volume two- to four-fold.		
			8 Imported Fire Ants: Control will be optimized by combining broadcast applications tha		
			will control foraging workers and newly mated fly-in queens with mound drenches that		
			will control existing colonies. If the soil is not moist, then it is important to irrigate befor		
			application or use a high volume application. For broadcast treatments apply 0.32 fluid or		
			per 1,000 square feet (0.22 lbs Al or 13.94 fl. oz./A). Treat mounds by diluting 0.05 fluid or		
			of A110.02 per gallon of water and applying 1 to 2 gallons of finished spray per mound		
			The mounds should be treated with sufficient force to break their apex and allow the		
			insecticide solution to flow into the ant tunnels. Treat a four-foot diameter circle aroun		
			the mound. For best results, apply in cool weather (65 - 80°F) or in early morning or lat		
			evening hours.		
			Mole Cricket adults: Achieving acceptable control of adult mole crickets is difficu		
			because preferred grass areas are subject to continuous invasion during the early spring by		
			this extremely active stage. Make applications as late in the day as possible and water in		
			with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then i		
			is important to irrigate before application to bring the mole crickets closer to the so		
	1	l .	surface where contact with the insecticide will be maximized. Treat grass areas that		

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subsequent nymph populations (see below).

Mole Cricket nymphs: Treat Grass areas that received intense adult mole cricket pressure in the spring immediately prior to peak egg hatch. Optimal control is achieved at this time because young nymphs are more susceptible to insecticides and they are located near the soil surface where the insecticide is most concentrated. Control of larger, more damaging, nymphs later in the year may require both higher labeled rates and more frequent applications to maintain acceptable control. Make applications as late in the day as possible and water in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized.

¹¹ Ticks (Including ticks that may transmit Lyme Disease and Rocky Mountain Spotted fever): Do not make spot applications. Treat the entire area where exposure to ticks may occur. Use higher spray volumes when treating areas with dense ground cover or heavy leaf liner. Ticks may be reintroduced from surrounding areas on host animals. Retreatment may be necessary to achieve and/or maintain control during periods of high past pressure. Repeat application is necessary only if there are signs of renewed activity. Repeat application must be limited to no more than once per seven days.

Deer ticks (Ixodes spp.) have a complicated lice cycle that ranges over a two-year period and involves four life stages. Make applications in the late fall and/or early spring to control adult ticks that are usually located on brush or grass above the soil surface and in mid to late spring to control larvae and nymphs that reside in the soil and leaf litter. American dog ticks may be a considerable nuisance in suburban settings, particularly where homes are built on land that was previously field or forest. These ticks commonly

congregate along paths or roadways where humans are likely to be encountered. Make

applications as necessary from mid-spring to early fall to control American dog tick larvae, nymbs and adults.

A110.02 LAWN DILUTION CHART

Application	Application	Fluid Ounces (mL) of A110.02 diluted to the Volumes of Finished Spray									
Volume:	Rate:	1 Gallon		5 Gallons		10 Gallons		100 Gallons			
Gallons/	Fl. Oz./	Fl. oz.	mL	Fl. oz.	mL	Fl. oz.	mL	Fl. oz.	mL		
1000 sq. ft.	1000 sq. ft.										
1	0.05	0.05	1.48	0.25	7.39	0.50	14.8	5.00	147.9		
1	0.08	0.08	2.37	0.40	11.83	0.80	23.7	8.00	236.6		
1	0.16	0.16	4.73	0.80	23.66	1.60	47.3	16.00	<u>473.2</u>		
1	0.32	0.32	9.46	1.60	47.32	3.20	94.6	32.00	<u>946.4</u>		
2	0.05	0.025	0.74	0.13	3.70	0.25	7.4	2.50	<u>73.9</u>		
2	0.08	0.040	1.18	0.20	5.91	0.40	11.8	4.00	<u>118.3</u>		
2	0.16	0.080	2.37	0.40	11.83	0.80	23.7	8.00	<u>236.6</u>		
2	0.32	0.160	4.73	0.80	23.66	1.60	47.3	16.00	<u>473.2</u>		
3	0.05	0.017	0.49	0.08	2.46	0.17	4.9	1.67	<u>49.4</u>		
3	0.08	0.027	0.79	0.13	3.94	0.27	7.9	2.67	<u>79.0</u>		
3	0.16	0.053	1.58	0.27	7.89	0.53	15.8	5.33	<u>157.6</u>		
3	0.32	0.107	3.15	0.53	15.77	1.07	31.5	10.67	<u>315.5</u>		
4	0.05	0.013	0.37	0.06	1.85	0.13	3.7	1.25	<u>37.0</u>		
4	0.08	0.020	0.59	0.10	2.96	0.20	5.9	2.00	<u>59.1</u>		
4	0.16	0.040	1.18	0.20	5.91	0.40	11.8	4.00	<u>118.3</u>		
4	0.32	0.080	2.37	0.40	11.83	0.80	23.7	8.00	236.6		
5	0.05	0.010	0.30	0.05	1.48	0.10	3.0	1.00	<u>29.6</u>		
5	0.08	0.016	0.47	0.08	2.37	0.16	4.7	1.60	<u>47.3</u>		
5	0.16	0.032	0.95	0.16	4.73	0.32	9.5	3.20	94.6		
5	0.32	0.064	1.89	0.32	9.46	0.64	18.9	6.40	<u>189.3</u>		
10	0.05	0.005	0.15	0.03	0.74	0.05	1.5	0.50	<u>14.8</u>		
10	0.08	0.008	0.24	0.04	1.18	0.08	2.4	0.80	<u>23.7</u>		
10	0.16	0.016	0.47	0.08	2.37	0.16	4.7	1.60	47.3		
10	0.32	0.032	0.95	0.16	4.73	0.32	9.5	3.20	<u>94.6</u>		

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<#>1. Armyworms, Cutworms and Sod Webworms: To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application. If the grass area is being maintained at a mowing height of greater than 1 inch, use higher labeled rates (up to 0.33 fluid oz. per 1000 square feet (0.23 lbs. Al or 14.72 fl. oz peacre)) during periods of high pest pressure. ¶

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<#>2. Annual Bluegrass Weevil (Hyperodes) adults: Time applications to control adult weevils as they leave their overwintering sites and move into grass areas. This movement generally begins when Forsythia is in full bloom and concludes when flowering dogwood (Carnes Florida) is in full bloom. Consult your State Cooperative Extension Service for more specific information regarding application timing. ¶

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<#>3. Billbug adults: Make applications when adult billbugs are first observed during April and May. Degree day models have been developed to optimize application timing. Consult your State Cooperative Extension Service for information specific to your region. In temperate regions, spring applications targeting billbug adults will also provide control of over-wintered chinch bugs. ¶

<#>4. Black Turfgrass Ataenius adults: Make applications during May and July to control the first and second generation of black turfgrass ataenius adults, respectively. Time the May application to coincide with the full bloom stage of Vanhoutte spiraea (Spiraea vanhouttei) and horse chestnut (Aesculus hippocastanum). Time the July application to coincide with this blooming of Rose of Sharon (Hibiscus svriacus).¶

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<#>5. Chinch Bugs: Chinch Bugs infest the base of grass plants and are often found in the thatch layer. Irrigation of the grass area before treatment will optimize the penetration at the insecticide to the area where the chinch bugs are located. Use higher volume applications if the thatch layer is excessive or if a relatively long mowing height is being maintained. Chinch bugs can be one of the most difficult pests to control in grasses and the higher labeled rates (up to 0.33 fluid oz. per 1000 square feet (0.23 lbs. Al or 14.72 fl. oz per acre)) may be required to control populations that contain both nymphs and adults during the middle of the summer.¶

<#>6. Mites: To ensure control of eriophyid mites, apply in combination with the labeled application rate of a surfactant. A second application, five to seven days after the first, may be necessary to achieve acceptable control. ¶

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<#>7. Flea larvae: Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Use a higher volume application when treating these areas to ensure penetration of the insecticide into the soil. Note: if the lawn area is being treated with this product at 0.08 fluid ea, per 1000 square feet for adult flea control, then the larval application rate may be achieved by increasing the application volume two- to four-fold. ¶

***>8. Imported Fire Ants: Control will be optimized by combining broadcast applications that will control foraging workers and newly mated fly-in queens with mound drenches that will control existing colonies. If the soil is not moist, then it is important to irrigate before application or use a high volume application. For broadcast treatments apply 0.32 fluid oz. per 1,000 square feet (0.22 lbs Al or 13.94 fl. oz./A). Treat mounds by diluting 0.05 fluid oz. of A110.02 per gallon of water and applying 1 to 2 gallons of finished spray per mound. The mounds should be treated with sufficient force to break their appex and allow the insecticide solution to flow into the ant tunnels. Treat a four-foot diameter circle around the mound

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GRASS GROWN FOR SEED, PASTURE AND RANGELAND

(bahiagrass, barnyardgrass, bentgrass, Bermudagrass, Kentucky bluegrass, big bluestem, smooth bromegrass, buffalograss, reed canarygrass, centipedegrass, crabgrass, cupgrass, dallisgrass, sand dropseed, Kentucky fescue, meadow foxtail, eastern gramagrass, side-oats grama, guinea grass, Indian grass, Johnsongrass, lovegrass, napiergrass, oatgrass, orchardgrass, pangolagraass, paspalum, redtop, Italian ryegrass, St. Augustine grass, sprangletop, squirreltailgrass, stargrass, switchgrass, timothy, crested wheatgrass, wildrye grass and zoysis grass. Also sudangrass and sorghum forages and their hybrids).

NOTE: Use on grasses is limited to the States of Idaho, Oregon, and Washington.

PESTS CONTROLLED	R	RATE	APPLICATION INSTRUCTIONS			
	LB AI/A	FL OZ/A				
Alfalfa Caterpillar	0.1	6.4	Apply as insects appear in sufficient volume of water to ensure			
Alfalfa Looper			thorough coverage of foliage.			
Alfalfa Weevil						
Blue Alfalfa Aphid ¹			Use higher labeled rate for increased pest pressure or for increased			
Cutworms			residual pest control. Do not exceed maximum labeled rate.			
Egyptian Alfalfa Weevil						
(larvae & adult)			Apply in a minimum of 2 gallons of finished spray per acre by aerial			
Flea Beetles			equipment or 10 gallons per acre by ground equipment.			
Green Cloverworm						
Green Peach Aphid ¹			Higher volumes of finished spray may improve insect control under			
Hornworms			higher temperatures, when foliage is dense and/or when insect			
Meadow Spittlebug			pressure is high.			
Pea Aphid ¹						
Potato Leafhopper			¹ Aphid control may be variable depending on species present and			
Spotted Alfalfa Aphid ¹			host-plant relationships.			
Threecornered Alfalfa Hopper			· ·			
Velvetbean Caterpillar						
Webworms						
Armyworm, southern						
Armyworm, true						
Armyworm, yellowstriped						
Ant						
Cereal Leaf Beetle						
Chinch Bug Cricket						
Grass Mealybug						
Grasshoppers						
Range Caterpillar						
Stink Bugs						
Armyworm, fall						
Black Grass Bug						
Hunting Bill Bug						
Plant Bug spp.						

RESTRICTIONS

- Do not apply more than <u>12.8 fl. oz (</u>0.2 lbs. ai) of <u>A110.02</u> per acre per year.
- Do not make applications less than 14 days apart.
- Do not make more than 2 applications per year.
- Applications may be made up to 30 days prior to harvest for forage and hay.
- Do not make applications during rain. Avoid making applications when rainfall is expected before the product has sufficient time to dry (minimum 4 hours).
- Rainfall within 24 hours after application may cause unintended runoff of pesticide application.

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STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Do not pour or dispose down the drain or sewer. Call your local solid waste agency for local disposal options.

PESTICIDE STORAGE AND SPILL PROCEDURES: Keep out of reach of children and animals. Store in original containers only, in a cool, dry place and avoid excess heat. Do not freeze. Do not store below 40°F. Carefully open containers. If crystals are observed, warm material to above 60°F by placing container in warm location. Shake or roll container periodically to redissolve solids. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. 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:

For plastic containers ≤ 5 gallons: Nonrefillable 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 ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration

For plastic containers > 5 gallons: Nonrefillable 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. Fill the container ¼ full with water. Recap 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.

LIMITATION OF WARRANTY AND LIABILITY

IMPORTANT: READ BEFORE USE. Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability. CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of ATTICUS, LLC. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, ATTICUS, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label. LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, neither ATTICUS, LLC the manufacturer, nor the Seller shall be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price

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Danitol is a trademark of Sumitomo Chemical Company, Ltd.

Scout Xtra is a trademark of Hoechst Schering Agrevo S.A.

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{LANGUAGE ON LABEL AFFIXED TO CONTAINER}

RESTRICTED USE PESTICIDE

Due to eve irritation and acute oral toxicity. Toxic to fish and aquatic organisms.

For retail sale to and use only by certified applicators or persons under their direct supervision and only for the uses covered by the certified applicator's certification.

> BIFENTHRIN GROUP 3A INSECTICIDE A110.02™

[Alternate Brand Name: Batallion, Batallion 2 EC]

Contains bifenthrin, the active ingredient used in Brigade $^{\rm @}$ [2EC]. ACTIVE INGREDIENT: (% by weight) Bifenthrin: (2 methyl[1,1 -biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-

trifluoro-1-propenyl)-2,2-dimethylcvclopropanecarboxvlate*.....

OTHER INGREDIENTS:..... .25.0% TOTAL: 100.0% *Cis isomers 97% minimum, trans isomers 3% maximum.

- **Contains petroleum distillates, xylene or xylene range aromatic solvents.
- This product contains 2 pounds 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.)

	FIRST AID
If swallowed	 Immediately call a poison control center or doctor.
	 Do not induce vomiting unless told to do so by a poison control cente or doctor.
	Do not give any liquid to the person.
	Do not give anything by mouth to an unconscious person.
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.
If on skin or	Take off contaminated clothing.
clothing:	Rinse skin immediately with plenty of water for 15-20 minutes.
	Call a poison control center or doctor for treatment advice.
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.
NOTE TO PHY	/SICIAN: This product is a pyrethroid. If large amounts have been
ingested, the	stomach and intestines should be evacuated. Treatment is symptomatic

and supportive. Digestible fats, oils, or alcohol may increase absorption and should be avoided. This product contains a petroleum distillate. Vomiting may cause aspiration pneumonia.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center of doctor, or going for treatment. You may also contact SafetyCall at 1-844-685-9173 for emergency medical treatment information.

For Chemical Emergency:

Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING-AVISO

May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Harmful if inhaled or absorbed through skin. Avoid breathing vapor or spray mist. Avoid contact with skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse

ENVIRONMENTAL HAZARDS: This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. 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 make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues 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. Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms.

The use of A110.02 is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect

PHYSICAL/CHEMICAL HAZARDS: Do not use or store near heat or open flame.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE AND SPILL PROCEDURES: Keep out of reach of children and animals. Store in original containers only, in a cool, dry place and avoid excess heat. Do not freeze, Do not store below 400 F. Carefully open containers. If crystals are observed, warm material to above 600F by placing container in warm location. Shake or roll container periodically to redissolve solids. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

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For plastic containers > 5 gallons: Nonrefillable 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. Fill the container ¼ full with water. Recap 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. 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.

See inside label booklet for additional Precautionary Statements and Directions for

[A110.02] is not manufactured, or distributed by FMC Corporation, seller of Brigade® 2 EC

Manufactured for: EPA Reg. No. 91234-104 Atticus, LLC EPA Est. No. 940 NW Cary Parkway, Suite 200

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