

70506-152

02/24/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

FEB 24 2010

Timothy Formella
United Phosphorus, Inc.
630 Freedom Business Center, Suite 402
King of Prussia, PA 19406

Dear Mr. Formella:

Subject: Label amendment adding crops: peanuts, globe artichokes, herbs, bananas and plantains, caneberry, coffee, pomegranate, tree nuts & Christmas trees
Aura 2F Insecticide
EPA Registration No. 70506-152
Date Submitted: December 1, 2008

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

1. On page 16, in the "Restrictions" section of the Fruiting Vegetables – Planthouse applications box, add the following restriction "Not for crops grown for seed unless specifically allowed by supplemental labeling."

A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the referenced label, incorporating the above change, before releasing the product for shipment. If you have any questions regarding this letter, please contact Autumn Metzger at (703) 305-5314 or metzger.autumn@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Venus Eagle".

Venus Eagle
Product Manager (01)
Insecticide-Rodenticide Branch
Registration Division (7505P)

Enclosure

2/38

ACCEPTED
With COMMENTS
In EPA Letter Dated:

FEB 24 2010

Under the Federal Insecticide, Fungicide
and Rodenticide Act, As amended, for the
pesticide Registered under EPA Reg. No:

70506-152

GROUP 4A INSECTICIDE

AURA 2 F Insecticide

For use in pest management and suppression of insect vectored diseases and maintenance of plant health.

ACTIVE INGREDIENT

| | |
|--|-------|
| Imidacloprid – 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine..... | 21.4% |
| Other Ingredients | 78.6% |
| Total | 100% |

Contains 2 pounds of imidacloprid per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

| FIRST AID | |
|--|--|
| If on skin or clothing | <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice. |
| If swallowed | <ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person. |
| If in eyes | <ul style="list-style-type: none"> • 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. |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Contact the Rocky Mountain Poison Control Center at 1-866-673-6671 for emergency medical treatment information. | |
| NOTE TO PHYSICIAN: No specific antidote is available. Treat patient symptomatically. | |

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC at 1-800-424-9300

United Phosphorus, Inc.
630 Freedom Business Center, Suite 402
King of Prussia, PA 19406
1-800-438-6071 • www.upi-usa.com

Net. Contents:
EPA Reg. No. 70506-152
EPA Est. No.
Batch/Lot # _____

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

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

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 the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, areas where surface water is present or to intertidal areas below the mean high water mark. 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. This product is toxic to wildlife and highly toxic to aquatic invertebrates.

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

OBSERVE THE FOLLOWING PRECAUTIONS WHEN MIXING AND APPLYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS; MARSHES OR NATURAL PONDS; ESTUARIES, AND COMMERCIAL FISH FARM PONDS.

Spray Drift Management

The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

Importance of Droplet Size

An important factor influencing drift is droplet size. Small droplets (<150 – 200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, make applications to deliver the largest droplet spectrum that provides sufficient control and coverage. Formation of very small droplets may be minimized by appropriate nozzle selection.

Wind Speed Restrictions

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size, canopy and equipment specifications determine drift potential at any given wind speed. Do not apply when winds are greater than 15 mph and avoid gusty and windless conditions. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

Restrictions During Temperature Inversions

Do not make ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source. 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 mixing.

Mixing and Loading Requirements

To avoid potential contamination of groundwater, the use of a properly designed and maintained containment pad for mixing and loading of any pesticide into application equipment is recommended. If a containment pad is not used, maintain a minimum distance of 25 feet between mixing and loading area and potential surface to groundwater conduits such as field sumps, uncased well heads, sinkholes, or field drains.

No-Spray Zone Requirements for Soil Applications

Do not apply within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.

Run-off Management

Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip. When using Aura 2 F Insecticide on erodible soils, employ Best Management Practices for minimizing run-off. Consult your local Natural Resources Conservation Service for recommendations in your use area.

Endangered Species Notices

Under the Endangered Species Act, it is a federal offense to use any pesticide in a manner that results in the death of a member of an endangered species. Consult your local county bulletin, County Extension Agent, or Pesticide State Lead Agency for information concerning endangered species in your area.

Resistance Management

Some insects are known to develop resistance to insecticides after repeated use. Follow the resistance management strategies established for the use area.

Aura 2 F Insecticide contains a Group 4A Insecticide. Insecticide biotypes with acquired or inherent resistance to Group 4A may eventually dominate the insect population if Group 4A insecticides are used repeatedly as the predominant method of control for targeted species.

The active ingredient in Aura 2 F Insecticide belongs to the neonicotinoid chemical class. Insect pests resistant to other chemical classes have not shown cross-resistance to Aura 2 F Insecticide. In order to maintain susceptibility to this class of chemistry in insect species with high resistance development potential, for each crop season: 1) make only a single soil application of Aura 2 F Insecticide; 2) do not make foliar applications of products from this same class following a long residual soil application of Aura 2 F Insecticide or other neonicotinoid products.

Other Group 4A neonicotinoid products used as foliar treatments include: Actara, Admire, Assail, Calypso, Centric, Clutch, Couraze, Gallant, Impulse, Intruder, Leverage, Nuprid, Pasada, Provado, Trimax Pro, and Venom.

Other Group 4A neonicotinoid products used as soil/seed treatments include: Admire Pro, Advise, Alias, Couraze, Cruiser, Gaucho, Macho, Macho Max, Nuprid, Platinum, Venom, and Widow.

Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations. Also, for more information on Insect Resistance Management (IRM), visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irc-online.org/>.

DIRECTIONS FOR USE

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

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

AGRICULTURAL USE REQUIREMENTS

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

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

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

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 made of any waterproof material such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton
- Shoes plus socks

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material is spilled for any reason or cause, absorb with sand or other inert material and dispose of absorbent in accordance with the Pesticide Disposal instructions listed below. Refer to Precautionary Statements on label for hazards associated with the handling of this material. In spill or leak incidents, keep unauthorized people away.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Clean container 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 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, or, if allowed by state and local authorities, by burning. If burned, stay out of the smoke.

APPLICATION INFORMATION

For best control, direct applications of Aura 2 F Insecticide into the seed or root-zone of crop. Failure to place Aura 2 F Insecticide into root-zone may result in loss of control or delay in onset of activity. Aura 2 F Insecticide may be applied by ground or chemigation. Do not apply by air. Broadcast, foliar applications are only allowed to seedling flats or trays, or where product is intended to be washed from foliage to soil before drying on foliage.

For best results, apply Aura 2 F Insecticide to the root-zone of plants to be protected. Since Aura 2 F Insecticide is continuously taken into the roots over a long period of time, the earlier Aura 2 F Insecticide is available to a developing plant, the earlier the protection begins. The systemic nature of Aura 2 F Insecticide allows movement from roots through the xylem tissue to all vegetative parts of the plant. This results in extended residual activity of Aura 2 F Insecticide, the control of insects and the prevention and/or reduction of virus transmission or symptom expression, and plant health benefits. The rate of Aura 2 F Insecticide applied affects the length of the plant protection period. Use higher rates when infestations occur later in crop development, or where pest pressure is continuous. Aura 2 F Insecticide will generally not control insects infesting flowers, blooms or fruit, and additional crop protection may be required for insects feeding in or on these plant parts and for insects not listed in the crop-specific, pests controlled sections of this label.

Suppression or less than complete control of certain diseases and insect pests including reduced feeding may also be caused by an Aura 2 F Insecticide application. In such cases, pests/diseases may require supplemental control measures.

Unless allowed by State specific supplemental labeling, the use of Aura 2 F Insecticide on crops grown for production of true seed intended for private or commercial planting is not allowed. Always take care to minimize exposure of Aura 2 F Insecticide to honey bees and other pollinators. Additional information on Aura 2 F Insecticide uses for these crops and other questions may be obtained from the Cooperative Extension Service, PCAs, consultants or local United Phosphorus, Inc. representatives.

Application can be made only to plants grown in field-type soils, potting media, or mixtures thereof. Do not apply to plants grown in non-soil medias such as perlite, vermiculite, rock wool, or other soil-less media, or plants growing hydroponically.

Mix Aura 2 F Insecticide with water or other appropriate diluent before application. Agitate the Aura 2 F Insecticide and water suspension to avoid settling.

Do not apply more than 0.5 lbs. imidacloprid active ingredient per acre, per crop season, regardless of formulation or method of application.

Mixing Instructions

To prepare the application mixture, first add a portion of the required amount of water to the tank and then add Aura 2 F Insecticide while agitation is underway. Add the remainder of water needed. Agitate during both mixing and application. Aura 2 F Insecticide may also be used with other pesticides and/or fertilizer solutions. Please see Compatibility Instructions below. When tank mixtures of Aura 2 F Insecticide and other pesticides are involved, prepare the tank mixture as described above and follow suggested Mixing Order below.

Mixing Order

When making pesticide mixtures, add wettable powders or wettable granules first, Aura 2 F Insecticide and other suspension concentrate (flowable) products second, and emulsifiable concentrates last. Agitate as each component is added. Do not add an additional component until the previous one is thoroughly mixed. If a fertilizer solution is added, a fertilizer/pesticide compatibility agent may be needed. To ensure a uniform spray mixture, continuous agitation is necessary during both mixing and application.

Compatibility Instructions

Test the compatibility of any intended mixture before adding Aura 2 F Insecticide to the spray or mix tank. To do this, add proportionate amounts of each ingredient in the appropriate order, to a suitable size jar, cap, shake the mixture for 5 minutes, and let set for 5 minutes. Do not use the mixture if the mixing is poor, or there is formation of precipitates that do not readily redisperse. For further information, contact your local United Phosphorus, Inc. representative.

CHEMIGATION – DIRECTIONS FOR USE**Types of Irrigation Systems**

Chemigation applications of Aura 2 F Insecticide may only be made to crops through chemigation systems as specified in crop-specific application sections and only through low-pressure systems unless specifically instructed otherwise for a given crop. Do not apply Aura 2 F Insecticide through any other type of irrigation system.

Uniform Water Distribution and System Calibration

The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.

Chemigation Monitoring

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.

Drift

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

Required System Safety Devices

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.

Using Water From Public Water Systems

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system can be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional automatic quick-closing check valve to prevent the flow of fluid back toward the injection. The pesticide injection pipeline must 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 or in cases where there is no water pump, when the water pressure decreases to the point where the 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.

ROTATIONAL CROPS *

Treated areas may be replanted with any crop specified on an imidacloprid label, or any crop for which a tolerance exists for the active ingredient, as soon as practical following the last application. For crops not listed on an imidacloprid label, or for crops with no established tolerances for the active ingredient, observe a 12 month plant-back interval.

- Immediate Plant-Back:** All crops on this label plus the following crops not on this label:
barley, canola, corn (field, pop & sweet), rapeseed, sorghum, soybean, sugar beets and wheat
- 30-Day Plant-Back:** Cereals (including buckwheat, millet, oats, rice, rye, and triticale) and safflower
- 10-Month Plant-Back:** Onions and bulb vegetables
- 12-Month Plant-Back:** All other crops

* Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed.

FIELD CROPS

COTTON

| PESTS | RATE | INSTRUCTIONS |
|--|--|---|
| Cotton aphid Plant bugs Thrips Whiteflies | 1.3 fl. oz./1000 row-feet 17 – 21.1 fl. oz./A (depending on row spacing) | Use one of the following methods to apply the specified rate of Aura 2 F Insecticide: 1. In-furrow spray during planting directed on or below seed; 2. In a narrow band directly below the eventual seed row in a bedding operation 7 or fewer days before planting; 3. Chemigation into root-zone through low-pressure drip or trickle irrigation. Refer to the Resistance Management section of this label. |
| Restrictions: <ul style="list-style-type: none"> Do not apply more than 21.1 fl. oz.(0.33 lb. a.i.) Aura 2 F Insecticide per acre per crop season. Regardless of formulation or method of application, apply no more than 0.5 lb. active ingredient per acre per season, including seed treatment, soil <u>and</u> foliar uses. Do not make more than 6 applications of the active ingredient per season regardless of method of application. Do not graze treated fields after any application of Aura 2 F Insecticide. | | |

PEANUTS

| PESTS | RATE | INSTRUCTIONS |
|---|----------------------|---|
| Controlled Aphids Leafhoppers Whiteflies Suppressed Thrips | 16 – 24 fl. oz./A | Use one of the following methods to apply the specified rate of Aura 2 F Insecticide : 1. In-furrow spray during planting, directed on or below seed; 2. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment. Important: Increases in Tomato spotted wilt virus (TSWV) incidence have been observed with applications of Aura 2 F Insecticide on multiple varieties of peanut. This may be the case with other tospoviruses, or other viruses transmitted by various thrips species or perhaps, other pests. Prior to applying Aura 2 F Insecticide to peanuts, United Phosphorus, Inc. recommends consultation with the State Cooperative Extension Service or United Phosphorus, Inc. representative for recommendations. Growers are advised to weigh insect control benefits against potential increase in viral disease levels. In areas where TSWV or other tospovirus are endemic, growers are encouraged to use virus resistant varieties and consult the University of Georgia, Tomato spotted wilt virus index, before applying Aura 2 F Insecticide. |
| Restrictions: <ul style="list-style-type: none"> Pre-Harvest Interval (PHI): 14 days Do not apply more than 24 fl. oz. (0.38 lb. a.i.) Aura 2 F Insecticide per acre per crop season. Use on peanuts not permitted in California unless otherwise directed by supplemental labeling. | | |

POTATOES

| PESTS | RATE | INSTRUCTIONS |
|---|--|--|
| Controlled Aphids Colorado potato beetle Flea beetles Leafhoppers Potato psyllid Suppressed Symptoms of: Potato leaf roll virus (PLRV) Potato yellows Net necrosis Wireworms (with in-furrow spray at planting) | 0.9 – 1.3 fl. oz./1000 row-feet 13 – 20 fl. oz./A | Use one of the following methods to apply the specified rate of Aura 2 F Insecticide : 1. In-furrow spray during planting directed on seed pieces or seed potatoes; 2. Subsurface side-dress on both sides of the row covered with 3 or more inches of soil; 3. Narrow band spray at ground cracking directly over the row during hilling covered with 3 or more inches of soil; 4. Narrow band directly below the eventual seed row in a bedding operation 7 or fewer days before planting. For effective pest control or suppression, Aura 2 F Insecticide applications must be placed below soil-surface and in contact with seed piece or within root-zone. For potatoes grown on highly permeable soils with a shallow water table, at-plant applications of Aura 2 F Insecticide may be made in a 2 to 4 inch band (width of planter shoe opening) and completely covered. |
| Restrictions: <ul style="list-style-type: none"> Do not apply more than 20 fl. oz. (0.31 lb. a.i.) Aura 2 F Insecticide per acre per crop season. | | |

POTATOES

(Seed Piece Treatment)

| PESTS | RATE | INSTRUCTIONS |
|--|---|---|
| Controlled Aphids Colorado potato beetle Flea beetles Leafhoppers Potato psyllid Wireworms (seed-piece protection) | 0.4 – 0.8 fl. oz./100 lbs. seed 8 – 16 fl. oz./A (based on a seeding rate of 2000 lbs./A) | Apply specified rate as a diluted spray onto seed-pieces using a shielded spray system. Dilute with 3 parts water or less, to 1 part Aura 2 F Insecticide. Agitate or stir spray solution as necessary. Fungicidal or inert absorbent dusts may be applied after Aura 2 F Insecticide is applied. Make applications only in areas with adequate ventilation or in areas that are equipped to remove spray mist or dust. Plant seed-pieces as soon as possible after treating. Prevent prolonged exposure of Aura 2 F Insecticide treated seed-pieces to sunlight. Plant seed-pieces in accordance with the recommendation of your local Extension specialist. Consult your local United Phosphorus, Inc. representative or crop protection product dealer for information relevant to your area. |
| Suppressed Symptoms of: Potato leaf roll virus (PLRV) Potato yellows Net necrosis | 0.8 fl. oz./100 lbs. seed 16 fl. oz./A (based on a seeding rate of 2000 lbs./A) | |
| Restrictions: <ul style="list-style-type: none"> Do not apply more than 20 fl. oz. (0.31 lb. a.i.) Aura 2 F Insecticide per acre per crop season. Do not use treated seed-pieces for food, feed, or fodder. Do not make any subsequent application of any imidacloprid product following an Aura | | |

2 F Insecticide seed-piece treatment.

TOBACCO

| PESTS | RATE | INSTRUCTIONS |
|--|--|--|
| Aphids Flea beetles | 1.0 fl. oz./1000 plants (as seedling tray drench) Or 1.4 fl. oz./1000 plants (in- furrow or transplant water) | Use one of the following methods to apply specified rate of Aura 2 F Insecticide: <ol style="list-style-type: none"> 1. Uniform broadcast foliar spray to seedlings in trays (tray drench) not more than 7 days before transplanting, followed immediately by overhead irrigation to wash Aura 2 F Insecticide from foliage into potting media. Failure to wash the product from foliage may result in reduced pest control. Handle transplants carefully during setting to avoid dislodging treated potting media from roots. 2. In-furrow spray or transplant-water drench during setting. 3. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment. |
| Mole crickets Whiteflies Wireworms | 1.4 – 2.8 fl. oz./1000 plants (as seedling tray drench) Or 1.8 – 2.8 fl. oz./1000 plants (in- furrow or transplant water) | Important: Proper tray drench applications of Aura 2 F Insecticide have been shown to be the most efficacious method of application. However, the specified rate of Aura 2 F Insecticide may be applied as combination of the tray drench in the planthouse and/or transplant-water drench in field. Adverse growing conditions may cause a delay in uptake of Aura 2 F Insecticide into the plant and a delay in control. |
| Suppressed Cutworms Symptoms of: Tomato spotted wilt virus (TSWV) | 1.4 – 2.8 fl. oz./1000 plants (as seedling tray drench) Or 1.8 – 2.8 fl. oz./1000 plants (in- furrow or transplant water) | |
| Restrictions: <ul style="list-style-type: none"> • Pre-Harvest Interval (PHI): 14 days • Do not apply more than 32 fl. oz. (0.5 lb. a.i.) Aura 2 F Insecticide per acre per crop season. | | |

VEGETABLE AND SMALL FRUIT CROPS

CUCURBIT VEGETABLES

Crops of Crop Group 9 including: Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cuban pumpkin, Cucumber, Gherkin, Gourd (edible, includes hyotan, cucuzza, hechima, Chinese okra), *Momordica* spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of *Cucumis melo* including true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon, and Winter melon), Pumpkin, Squash, (includes summer squash types such as: butternut squash calabaza, crookneck squash, Hubbard squash, scallop squash, straightneck squash, vegetable marrow and zucchini, and winter squash types such as acorn squash, and spaghetti squash), Watermelon (includes hybrids and/or varieties of *Citrullus lanatus*).

| Field Applications | | |
|--|------------------------------|---|
| PESTS | RATE | INSTRUCTIONS |
| <p>Control: Aphids Cucumber beetles Leafhoppers Thrips (foliage-feeding thrips only) Whiteflies</p> <p>Suppression: Bacterial wilt (as vectored by various cucumber beetles) Leaf silvering from whitefly feeding</p> | <p>16 – 24 fl. oz./A</p> | <p>Use one of the following methods to apply the specified rate of Aura 2 F Insecticide:</p> <ol style="list-style-type: none"> 1. Chemigation into root-zone by means of low pressure drip, trickle, micro-sprinkler or equivalent equipment; 2. In-furrow spray directed on or below seed; 3. Narrow (2" or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1 1/2" with sufficient irrigation within 24 hours of application; 4. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting; 5. Post-seeding drench, transplant-water drench, or hill drench; 6. Subsurface side-dress on both sides of each row. Incorporate product into the root zone. |
| <p>Restrictions:</p> <ul style="list-style-type: none"> • Not for use on crops grown for seed unless specifically allowed by supplemental labeling. • Do not apply more than 24 fl. oz. (0.38 lb. a.i.) Aura 2 F Insecticide per acre per application. • Pre-Harvest Interval (PHI): 21 days | | |

| Planthouse Applications | | |
|--|-------------------------------|---|
| PESTS | RATE | INSTRUCTIONS |
| Aphids Whiteflies | 0.1 fl. oz./1000 plants | <p>Use one of the following methods to apply the specified rate to seedlings in trays in the planthouse. Target soil media (tray drench), not more than 7 days prior to transplanting.</p> <ol style="list-style-type: none"> 1. Uniform, broadcast high-volume foliar spray, followed immediately by sufficient overhead irrigation to wash Aura 2 F Insecticide from foliage into potting media without loss of gravitational liquid from the bottom of the tray. Failure to wash product from foliage may result in reduced pest control; 2. Injection into overhead irrigation system, using sufficient volume to thoroughly saturate soil media without loss of gravitational solution from the bottom of the tray. <p>The application made in the planthouse will only provide short-term protection and is not intended as a substitute for a field application. Make an additional field application within 2 weeks after transplanting to provide continuous protection. Applications of higher rates or increased number of applications in planthouse may result in significant plant injury. Handle transplants carefully during setting to avoid dislodging treated potting media from roots.</p> <p>Important: Not all varieties of cucurbit vegetables have been tested for tolerance to Aura 2 F Insecticide applied to seedling flats. It is therefore recommended to treat a small number of plants and confirm tolerance for 7 days before treating entire planthouse.</p> |
| <p>Restrictions:</p> <ul style="list-style-type: none"> • Do not apply more than 0.1 fl. oz. (0.00156 lb. a.i.)/1000 plants Aura 2 F Insecticide for planthouse applications. • Do not apply more than once as a planthouse application. | | |

GREENHOUSE VEGETABLES
 (Mature plants in production greenhouses)

Cucumber, Tomato, only

| PESTS | RATE | INSTRUCTIONS |
|---|-------------------------------|--|
| Aphids Whiteflies | 1.4 fl. oz./1000 plants | <p>Apply specified rate in a minimum of 16 gallons of water for tomatoes and 21 gallons of water for cucumbers. Use soil drenches, micro-irrigation, drip irrigation, or hand-held or motorized calibrated irrigation equipment.</p> <p>Apply when infestation pressure surpasses threshold and beneficials are not able to maintain pest populations below damage thresholds. Repellency of bumble bee pollinators and negative effects on some beneficials (<i>Orius</i> sp.) can occur when Aura 2 F Insecticide is applied.</p> <p>Many varieties of vegetables have been tested for tolerance to Aura 2 F Insecticide and show good safety. However, certain varieties may show more sensitivity to Aura 2 F Insecticide. Treatment of a few plants is recommended before treating a whole greenhouse.</p> <p>Do not apply to immature plants as phytotoxicity may occur.</p> |
| <p>Restrictions:</p> <ul style="list-style-type: none"> • Application can be made only to plants grown in field-type soils, potting media, or mixtures thereof. Do not apply to plants grown in non-soil medias such as perlite, vermiculite, rock wool or other soil-less media, or plants growing hydroponically. • Not for use on crops grown for seed unless specifically allowed by supplemental labeling. • Pre-Harvest Interval (PHI): 0 days • Do not apply Aura 2 F Insecticide more than once per season. | | |

FRUITING VEGETABLES

Crops of Crop Group 8 plus Okra including: Eggplant, Ground cherry, Okra, Pepper (including bell, chili, cooking, pimento and sweet), Tomato, Pepinos, Tomatillo

| Field Applications | | |
|---|--|--|
| PESTS | RATE | INSTRUCTIONS |
| Controlled: Aphids Colorado potato beetle Flea beetles Leafhoppers Thrips (foliage-feeding thrips, only) Whiteflies Suppressed: Symptoms of: Tomato mottle virus Tomato spotted wilt virus Tomato yellow leaf curl virus | Okra and Pepper 16 – 32 fl. oz./A Other Crops 16 – 24 fl. oz./A | Use one of the following methods to apply specified rate of Aura 2 F Insecticide: <ol style="list-style-type: none"> 1. Chemigation into root-zone by means of low-pressure drip, trickle, micro-sprinkler or equivalent equipment; 2. In-furrow spray directed on or below seed; 3. Narrow (2" or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1 ½" with sufficient irrigation within 24 hours of application; 4. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting; 5. Post-seeding drench, transplant-water drench, or hill drench; 6. Subsurface side-dress on both sides of each row. Aura 2 F Insecticide must be incorporated into root-zone. |
| Restrictions: <ul style="list-style-type: none"> • Not for use on crops grown for seed unless specifically allowed by supplemental labeling. • Pre-Harvest Interval (PHI): 21 days • Do not apply more than 32 fl. oz. (0.5 lb. a.i.) Aura 2 F Insecticide per acre per application to pepper and okra. • Do not apply more than 24 fl. oz. (0.38 lb. a.i.) Aura 2 F Insecticide per acre per application to fruiting vegetables. | | |

| Planthouse Applications | | |
|---|-------------------------------|---|
| PESTS | RATE | INSTRUCTIONS |
| Aphids Whiteflies | 0.1 fl. oz./1000 plants | <p>Use one of the following methods to apply the specified rate to seedlings in trays in the planthouse targeting soil media (tray drench), not more than 7 days prior to transplanting.</p> <ol style="list-style-type: none"> 1. Uniform, broadcast high-volume foliar spray, followed immediately by sufficient overhead irrigation to wash Aura 2 F Insecticide from foliage into potting media without loss of gravitational liquid from the bottom of the tray. Failure to wash the product from foliage may result in reduced pest control. 2. Injection into overhead irrigation system, using adequate volume to thoroughly saturate soil media without loss of gravitational solution from the bottom of the tray. <p>The application made in the planthouse will only provide short-term protection and is not intended as a substitute for a field application. Make an additional field application within 2 weeks after transplanting to provide continuous protection. Applications of higher rates or increased number of applications in planthouse may result in significant plant injury. Handle transplants carefully during setting to avoid dislodging treated potting media from roots.</p> <p>Important: Not all varieties of fruiting vegetables have been tested for tolerance to Aura 2 F Insecticide applied to seedling flats. It is therefore recommended to treat a small number of plants and confirm tolerance for 7 days prior to treating entire planthouse.</p> |
| <p>Restrictions:</p> <ul style="list-style-type: none"> • Do not apply more than 0.1 fl. oz. (0.00156 lb. a.i.)/1000 plants Aura 2 F Insecticide for planthouse applications. • Do not apply more than once as a planthouse application. • Use not permitted in California unless otherwise directed by supplemental labeling. | | |

GLOBE ARTICHOKE

| PESTS | RATE | INSTRUCTIONS |
|---|----------------------|--|
| Aphids Leafhoppers | 16 - 32 fl. oz./A | Use one of the following methods to apply the specified rate of Aura 2 F Insecticide. 1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment; 2. In-furrow spray at planting directed on or below seed. |
| Restrictions: <ul style="list-style-type: none"> • Pre-Harvest Interval (PHI): 7 days • Do not apply more than 32 fl. oz. (0.5 lb. a.i.) Aura 2 F Insecticide per acre per season. | | |

HERBS

Crops of Crop Subgroup 19A including: Angelica, Balm (lemon balm), Basil (fresh and dried), Borage, Burnet, Camomile, Catnip, Chervil (dried), Chinese chive, Chive, Clary, Coriander (cilantro or Chinese parsley leaves), Costmary, Culantro (leaf), Curry (leaf), Dillweed, Horehound, Hyssop, Lavender, Lemongrass, Lovage (leaf), Marigold, Marjoram, Nasturtium, Parsley (dried), Pennyroyal, Rosemary, Rue, Sage, Savory (summer and winter), Sweet bay (bay leaf), Tansy, Tarragon, Thyme, Wintergreen, Woodruff, Wormwood.

| PESTS | RATE | INSTRUCTIONS |
|--|----------------------|--|
| Controlled Aphids Flea beetles Leafhoppers Whiteflies Suppressed Thrips (foliage feeding thrips only) | 16 – 24 fl. oz./A | Use one of the following methods to apply the specified rate of Aura 2 F Insecticide : 1. In-furrow spray during planting, directed on or below seed; 2. In-furrow spray or transplant-water drench during setting or transplanting; 3. Shank into or below eventual seed-line; 4. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment. Important: Not all crops and/or varieties listed above have been tested for phytotoxic effects. Without specific knowledge about a particular crop and variety, United Phosphorus, Inc. strongly recommends that only small areas or numbers of plants of each be treated and evaluated prior to commercial use. |
| Restrictions: <ul style="list-style-type: none"> • Pre-Harvest Interval (PHI): 14 days • Do not apply more than 24 fl. oz. (0.38 lb. a.i.) Aura 2 F Insecticide per acre per crop season. | | |

BRASSICA (COLE) LEAFY VEGETABLES

Crops of Crop Group 5 including: Broccoli, Broccoli raab (rapini), Brussels sprouts, Cabbage, Cauliflower, Cavalo broccoli, Chinese (gai lon) broccoli, Chinese (bok choy) cabbage, Chinese (napa) cabbage, Chinese mustard (gai choy) cabbage, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard Spinach, Rape greens

| PESTS | RATE | INSTRUCTIONS |
|--|---|--|
| Aphids Leafhoppers Thrips (foliage feeding thrips only) Whiteflies | 10 – 24 fl. oz./A (on 36 inch rows) | Use one of the following methods to apply the specified rate of Aura 2 F Insecticide: <ol style="list-style-type: none"> 1. Chemigation into root-zone by means of low-pressure drip, trickle, micro-sprinkler or equivalent equipment; 2. In-furrow spray directed on or below seed; 3. Narrow (2" or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1 ½" with sufficient irrigation within 24 hours of application; 4. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting. 5. Post-seeding drench, transplant-water drench, or hill drench; 6. Subsurface side-dress on both sides of each row. Aura 2 F Insecticide must be incorporated into root-zone. |
| Restrictions: <ul style="list-style-type: none"> • Not for use on crops grown for seed unless specifically allowed by supplemental labeling. • Pre-Harvest Interval (PHI): 21 days • Do not apply more than 24 fl. oz. (0.38 lb. a.i.) Aura 2 F Insecticide per acre per application. | | |

LEAFY VEGETABLES

Crops of Crop Subgroup 4A plus Watercress including: Amaranth (leafy amaranth, Chinese spinach, tampala), Arugula (Roquette), Chervil, Chrysanthemum (edible leaved and garland), Corn salad, Cress (garden), Cress (upland, yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Radicchio (red chicory), Spinach (including New Zealand and vine (Malabar spinach, Indian spinach)), Watercress (commercial production only, applications must not be made to native cress growing in streams or other bodies of water), Watercress (upland).

| PESTS | RATE | INSTRUCTIONS |
|--|---|--|
| Aphids Leafhoppers Thrips (foliage feeding thrips only) Whiteflies | 10 – 24 fl. oz./A (on 36 inch rows) | Use one of the following methods to apply the specified rate of Aura 2 F Insecticide: <ol style="list-style-type: none"> 1. Chemigation into root-zone by means of low-pressure drip, trickle, micro-sprinkler or equivalent equipment; 2. In-furrow spray directed on or below seed; 3. Narrow (2" or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1 ½" with sufficient irrigation within 24 hours of application; 4. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting. 5. Post-seeding drench, transplant-water drench, or hill drench; 6. Subsurface side-dress on both sides of each row. Aura 2 F Insecticide must be incorporated into root-zone. |
| Restrictions: <ul style="list-style-type: none"> • Not for use on crops grown for seed unless specifically allowed by supplemental labeling. • Pre-Harvest Interval (PHI): 21 days • Do not apply more than 24 fl. oz. (0.38 lb. a.i.) Aura 2 F Insecticide per acre per application. | | |

LEAFY PETIOLE VEGETABLES

Crops of Crop Subgroup 4B including: Cardoon, Celery, Celtuce, Chinese celery (fresh leaves and stalk only), Florence fennel (including sweet anise, sweet fennel, Finocchio), Rhubarb, Swiss Chard.

| PESTS | RATE | INSTRUCTIONS |
|--|----------------------|--|
| Aphids Leafhoppers Thrips (foliage feeding thrips only) Whiteflies | 10 – 24 fl. oz./A | Apply specified rate of Aura 2 F Insecticide using one of the following methods: <ol style="list-style-type: none"> 1. Chemigation into root-zone by means of low-pressure drip, trickle, micro-sprinkler, or equivalent equipment; 2. In-furrow spray directed on or below seed; 3. Narrow (2" or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1 ½" with sufficient irrigation within 24 hours of application; 4. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting; 5. Post-seeding drench, transplant-water drench, or hill drench. 6. Subsurface side-dress on both sides of each row. Aura 2 F Insecticide must be incorporated into root-zone. |
| Restrictions: <ul style="list-style-type: none"> • Not for use on crops grown for seed unless specifically allowed by supplemental labeling. • Pre-Harvest Interval (PHI): 45 days • Do not apply more than 24 fl. oz. (0.38 lb. a.i.) Aura 2 F Insecticide per acre per application. | | |

LEGUME VEGETABLES except soybean, dry

Crops of Crop Group 6 including:

Edible Podded and Succulent Shelled Pea and Bean and Dried Shelled Pea and Bean

Bean (*Lupinus* spp., includes grain lupin, sweet lupin, white lupin, and white sweet lupin)

Bean (*Phaseolus* spp., includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean)

Bean (*Vigna* spp., includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, Southern pea, urd bean, yardlong bean)

Pea (*Pisum* spp., includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea)

Other Beans and Peas (Broad Bean (fava), Chickpea (garbanzo bean), Guar, Jackbean, Lablab bean (hyacinth bean), Lentil, Pigeon pea, Soybean (immature seed), Sword bean)

| PESTS | RATE | INSTRUCTIONS |
|---|------------------------------|--|
| <p>Controlled: Aphids Leafhoppers Thrips (foliage-feeding thrips, only) Whiteflies</p> <p>Suppressed: Symptoms of: Bean common mosaic virus (BCMV) Bean golden mosaic virus (BGMV) Beet curly top hybrigeminivirus (BCTV)</p> | <p>16 – 24 fl. oz./A</p> | <p>Apply specified rate of Aura 2 F Insecticide using one of the following methods:</p> <ol style="list-style-type: none"> 1. Chemigation into root-zone by means of low-pressure drip, trickle, micro-sprinkler or equivalent equipment; 2. In-furrow spray at planting directed on or below seed; 3. In a narrow (2" or less) surface band over seed-line during planting incorporated to a depth of 1 to 1 ½" with sufficient irrigation with 24 hours following application; 4. In a narrow band directly below the eventual seed row in a bedding operation 7 or fewer days before planting; 5. As a post-seeding drench, transplant drench, or hill drench. |
| <p>Restrictions:</p> <ul style="list-style-type: none"> • Not for use on crops grown for seed unless specifically allowed by supplemental labeling. • Pre-Harvest Interval (PHI): 21 days • Do not apply more than 24 fl. oz. (0.38 lb. a.i.) Aura 2 F Insecticide per acre per crop season. | | |

ROOT VEGETABLES

Crops of Crop Subgroup 1B except Sugar beets plus Kava including: Beet (garden)*, Burdock (edible)*, Carrot*, Celeriac*, Chervil (turnip-rooted)*, Chicory*, Ginseng, Horseradish, Kava*, Parsley (turnip-rooted), Parsnip*, Radish*, Oriental Radish (diakon)*, Rutabaga*, Salsify (oyster plant), Salsify (black)*, Salsify (Spanish), Skirret, and Turnip*.

* Tops and greens from these crops may be used for food or feed.

| PESTS | RATE | INSTRUCTIONS |
|---|--|--|
| Aphids Flea beetles Leafhoppers Thrips (foliage feeding thrips only) Whiteflies | 0.7 – 1.7 fl. oz./1000 row-feet 10 – 24 fl. oz./A | Apply specified rate of Aura 2 F Insecticide using one of the following methods: <ol style="list-style-type: none"> 1. Chemigation into root-zone by means of low-pressure drip, trickle, micro-sprinkler or equivalent equipment; 2. In-furrow spray (rate specified per 1000 row-feet) or, shanked-in 1 to 2 inches below seed depth during planting; 3. In a narrow (2 inches or less) band directly (1 to 2 inches) below the eventual seed row in a bedding operation 14 or fewer days before planting. <p>Important: The rate applied affects the length of control. Use higher rates where infestations occur later in crop development, or where pest pressure is continuous. Rates less than 0.7 fl. oz./1000 row-feet will not provide adequate residual pest control. Aura 2 F Insecticide treated crops grown on very high organic matter soils (muck) may also require additional pest management control.</p> |
| Restrictions: <ul style="list-style-type: none"> • Not for use on crops grown for seed unless specifically allowed by supplemental labeling. • Pre-Harvest Interval (PHI): 21 days • Do not apply more than 24 fl. oz. (0.38 lb. a.i.) Aura 2 F Insecticide per acre per crop season. • Do not apply more than once per crop season. • Use not permitted on Kava in California unless otherwise directed by supplemental labeling. | | |

TUBEROUS AND CORM VEGETABLES

Crops of Crop Subgroup 1C including: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Canna (edible, Queensland arrowroot), Cassava (bitter and sweet)*, Chayote (root), Chufa, Dasheen (taro)*, Ginger, Leren, Sweetpotato, Tanier (cocoyam)*, Turmeric, Yam bean (jicama, manioc pea), Yam (true)*

(For use directions on potato see Field Crops section)

* Tops or greens from these crops may be used for food or feed.

| PESTS | RATE | INSTRUCTIONS |
|--|--|--|
| Aphids Flea beetles Leafhoppers Thrips (foliage feeding thrips only) Whiteflies | 0.7 – 1.7 fl. oz./1000 row-foot 10 – 24 fl. oz./A | Use one of the following methods to apply specified rate of Aura 2 F Insecticide: 1. In-furrow spray (rate specified per 1000 row-foot) over planting material (hulis) or shanked-in 1 to 2 inches below hulis depth at planting; 2. Side-dress not more than 0.6 fl. oz./1000 row-foot no later than 45 days after planting. Observe the PHIs listed below. Important: The rate applied affects the length of control. Use higher rates where infestations occur later in crop development, or where pest pressure is continuous. Rates less than 0.7 fl. oz./1000 row-foot may not provide adequate residual pest control. Aura 2 F Insecticide treated crops grown on very high organic matter soils (muck) may also require additional pest management control. |
| Restrictions: <ul style="list-style-type: none"> • Not for use on crops grown for seed unless specifically allowed by supplemental labeling. • Pre-Harvest Interval (PHI) from planting application: 3 days (leaves); 125 days (corms). • Do not apply more than 24 fl. oz. (0.38 lb. a.i.) Aura 2 F Insecticide per acre per crop season. • Do not apply Aura 2 F Insecticide more than once per crop season. | | |

STRAWBERRIES

| Annual and Perennial Strawberries | | |
|--|----------------------|---|
| PESTS | RATE | INSTRUCTIONS |
| Aphids Whiteflies | 24 – 32 fl. oz./A | <p>Use one of the following methods to apply specified rate of Aura 2 F Insecticide:</p> <ol style="list-style-type: none"> 1. Chemigation into root-zone by means of low-pressure drip, trickle, micro-sprinkler, or equivalent equipment after plants are established or on perennial crops in early spring prior to bud opening; 2. As a plant material or plant hole treatment just prior to, or during transplanting. 3. As a band spray over-the-row in a minimum of 20 gallons of water per acre followed immediately by overhead irrigation to incorporate product into root-zone. Plastic or other mulches that limit movement of Aura 2 F Insecticide into root zone are not advised. <p>The rate applied affects the length of control. Use higher rates where infestations may occur later in crop development or where pest pressure is continuous.</p> |
| <p>Restrictions:</p> <ul style="list-style-type: none"> • Pre-Harvest Interval (PHI): 14 days • Do not apply more than 32 fl. oz. (0.5 lb. a.i.) Aura 2 F Insecticide per acre per crop season. • Do not make both pre-harvest and post-harvest applications on the same crop in the same season. | | |

| Post-Harvest Use on Perennial Strawberries | | |
|---|----------------------|---|
| PESTS | RATE | INSTRUCTIONS |
| White grub complex (grubs of Asiatic garden beetle, European and Masked chafer, Japanese beetle, Oriental beetle) | 16 – 24 fl. oz./A | <p>Make a single application post harvest to coincide with renovation of strawberry fields and during active egg-laying period of beetles. Apply specified rate of Aura 2 F Insecticide using one of the following methods:</p> <ol style="list-style-type: none"> 1. As a ground spray by means of boom or backpack sprayer in a minimum of 20 gallons of water per acre; 2. As a row-band spray using an adjusted amount of product based on the treated row band area in proportion to the amount required per full acre. Set the bandwidth to be equivalent to the width of the anticipated fruiting bed; 3. As a chemigation application with 600 to 1000 gallons of water followed by 0.1 to 0.25 inches irrigation. <p>Important: All soil-surface applications must be followed by 0.25 inches of rainfall or overhead irrigation water per acre within 2 hours of application in order to adequately incorporate Aura 2 F Insecticide into egg-deposition zone.</p> |
| <p>Restrictions:</p> <ul style="list-style-type: none"> • Pre-Harvest Interval (PHI): 14 days • Do not apply more than 24 fl. oz. (0.38 lb. a.i.) Aura 2 F Insecticide per acre per season. | | |

- Do not make both pre-harvest and post-harvest applications on the same crop in the same season.

SUGAR BEETS

Restriction: For use only in California

| PESTS | RATE | INSTRUCTIONS |
|---|------------------|--|
| Controlled: Aphids Leafhoppers Whiteflies Flea beetles Suppressed: Symptoms of: Western yellows/Beet curly top hybridgeminivirus (BCTV) | 6 - 12 fl. oz./A | Applied specified rate of Aura 2 F Insecticide in sufficient carrier volume to insure uniform application. Apply directly below each seed furrow either during the bedding operation immediately prior to planting or at the time of planting. The low rate may be applied to aid establishment of stands in whitefly areas, or for early season control of the other pests listed. |
| Restrictions: <ul style="list-style-type: none"> Not for use on crops grown for seed unless specifically allowed by supplemental labeling. Do not apply more than 12 fl. oz. (0.18 lb. a.i.) Aura 2 F Insecticide per acre per crop season. | | |

| AURA 2 F INSECTICIDE CONVERSION CHART FOR LINEAR APPLICATION | | | | | | | | |
|---|--|------|------|------|------|------|------|------|
| RATE fluid ounces/acre | RATE fluid ounces/1000 row-feet | | | | | | | |
| | Based on average row spacing (in inches) | | | | | | | |
| | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 10 | 0.19 | 0.29 | 0.38 | 0.48 | 0.57 | 0.67 | 0.76 | 0.86 |
| 12 | 0.23 | 0.34 | 0.46 | 0.57 | 0.69 | 0.80 | 0.92 | 1.03 |
| 14 | 0.27 | 0.40 | 0.54 | 0.67 | 0.80 | 0.94 | 1.07 | 1.21 |
| 16 | 0.31 | 0.46 | 0.61 | 0.77 | 0.92 | 1.07 | 1.22 | 1.38 |
| 18 | 0.34 | 0.52 | 0.69 | 0.86 | 1.03 | 1.21 | 1.38 | 1.55 |
| 20 | 0.38 | 0.57 | 0.76 | 0.96 | 1.15 | 1.34 | 1.53 | 1.72 |
| 22 | 0.42 | 0.63 | 0.84 | 1.05 | 1.26 | 1.47 | 1.68 | 1.89 |
| 24 | 0.46 | 0.69 | 0.92 | 1.15 | 1.38 | 1.61 | 1.84 | 2.07 |
| 26 | 0.50 | 0.75 | 0.99 | 1.24 | 1.49 | 1.74 | 1.99 | 2.24 |
| 28 | 0.54 | 0.80 | 1.07 | 1.34 | 1.61 | 1.87 | 2.14 | 2.41 |
| 30 | 0.57 | 0.86 | 1.15 | 1.43 | 1.72 | 2.01 | 2.29 | 2.58 |
| 32 | 0.61 | 0.92 | 1.22 | 1.52 | 1.84 | 2.14 | 2.45 | 2.75 |
| Important: The application rate affects the length of control and to a considerable extent, the degree of control or effect. Row-spacing X Aura 2 F Insecticide rate combinations in shaded blocks may not provide adequate long-term, residual control. Use higher labeled rates where infestations may occur later in crop development or where pest pressure is continuous. United Phosphorus, Inc. offers no warranty for use of Aura 2 F Insecticide at rates below 0.7 fl. oz./1000 row-feet. | | | | | | | | |

TREE, BUSH, AND VINE CROPS

BANANA and PLANTAIN

| PESTS | RATE | INSTRUCTIONS |
|--|----------------------|---|
| Controlled: Aphids Leafhoppers Suppressed: Scales | 16 - 32 fl. oz./A | Applied specified rate of Aura 2 F Insecticide by chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment. |
| Restrictions: <ul style="list-style-type: none"> • Pre-Harvest Interval (PHI): 0 day • Do not apply more than 32 fl. oz. (0.5 lb. a.i.) Aura 2 F Insecticide per acre per crop season. | | |

BUSHBERRIES

Crops of Crop Subgroup 13B including: Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, Juneberry, Lingonberry, Salal.

| PESTS | RATE | INSTRUCTIONS |
|--|----------------------|---|
| Japanese beetle (adults, feeding on foliage) White grub complex (grubs of Asiatic garden beetle, European and Masked chafer, Japanese beetle and Oriental beetle) | 16 - 32 fl. oz./A | Use one of the following methods to apply specified rate of Aura 2 F Insecticide: <ol style="list-style-type: none"> 1. Chemigation into root-zone by means of low-pressure drip, trickle, micro-sprinkler or equivalent equipment; 2. 18-inch band on each side of the row followed by irrigation immediately after application. <p>Apply Aura 2 F Insecticide to moist soil. If necessary, apply one hour of irrigation water immediately before application of Aura 2 F Insecticide. To ensure maximum efficacy of soil surface sprays, ½ to 1 inch of irrigation water or rainfall must be applied or received within 24 hours of application to facilitate movement into the soil and into the root-zone.</p> <p><u>Grubs:</u> For optimal grub control, apply Aura 2 F Insecticide to control 1st or 2nd instar larvae. Make application post-bloom up to 7 days before harvest, or post-harvest until October 1st.</p> <p><u>Japanese beetle larvae:</u> For optimum control, apply from June 1 to July 15.</p> <p>Application to grass covered rows, row middles, drive lanes, headlands, and other grassy areas in and around the berry field will control resident grub populations. Applications directed to the root-zone will help protect berry plant roots from grub feeding.</p> |
| Restrictions: <ul style="list-style-type: none"> • Do not apply pre-bloom or during bloom or when bees are actively foraging. • Pre-Harvest Interval (PHI): 7 days • Do not apply more than 32 fl. oz. (0.5 lb. a.i.) Aura 2 F Insecticide per acre per season. | | |

CANEBERRY

Crops of Crop Subgroup 13A including:

Blackberry (*Rubus eubatus*, including bingleberry, black satin berry, boysenberry, Cherokee blackberry, Chesterberry, Cheyenne blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, Himalayaberry, hullberry, Lavacaberry, Loganberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry, nectarberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, youngberry, and various and/or hybrids of these)

Raspberry (black and red, *Rubus occidentalis*, *Rubus strigosus*, *Rubus idaeus*).

| PESTS | RATE | INSTRUCTIONS |
|--|----------------------|---|
| Controlled: Aphids Leafhoppers Whiteflies | 16 - 32 fl. oz./A | Use one of the following methods to apply specified rate of Aura 2 F Insecticide: 1. Chemigation into root-zone by means of low-pressure drip, trickle, micro-sprinkler or equivalent equipment; 2. Basal, soil drench in a minimum of 500 gallons solution per acre. |
| Redneck cane borer | 24 - 32 fl. oz./A | |
| Suppressed: Thrips (foliage feeding thrips only) | 16 - 32 fl. oz./A | |
| Restrictions: | | |
| <ul style="list-style-type: none"> Do not apply pre-bloom or during bloom or when bees are actively foraging. Pre-Harvest Interval (PHI): 7 days Do not apply more than 32 fl. oz. (0.5 lb. a.i.) Aura 2 F Insecticide per acre per season. | | |

CITRUS (Containerized)

Crops of Crop Group 10 including: Calamondin, Citrus citron, Citrus hybrids (includes chironja, tangelo, and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Pummelo, Orange (sweet and sour), Satsuma mandarin, White sapote (*Casimiroa* spp.), and other cultivars and/or hybrids of these.

| PESTS | RATE | INSTRUCTIONS |
|---|--|--|
| Controlled: Aphids Asian citrus psyllid Black fly Citrus leafminer Leafhoppers/Sharpshooters Mealybugs Scales Whiteflies | 0.75 mL/ft ³ container media | Determine volume of container and calculate dosage necessary to treat container. Apply calculated dosage of Aura 2 F Insecticide per container as a soil drench or through low-pressure drip or trickle irrigation water. Use sufficient carrier volume to ensure thorough uniform distribution throughout the media without loss of gravitational water from the container. For best results, apply treatment at planting before insect infestation occurs. Retreat if necessary. |
| Citrus Root weevil (larval complex) | 1.25 - 2.5 mL/ft ³ container media | |
| Suppressed: Citrus thrips (foliage feeding thrips only) | 2.5 mL/ft ³ container media | <u>Citrus root weevil complex (larvae):</u> Apply before neonate larvae enter potting media. Use the higher rate for heavy infestations. |

CITRUS (Field)

Crops of Crop Group 10 including: Calamondin, Citrus citron, Citrus hybrids (includes chironja, tangelo, and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Pummelo, Orange (sweet and sour), Satsuma mandarin, White sapote (*Casimiroa* spp.), and other cultivars and/or hybrids of these.

| PESTS | RATE | INSTRUCTIONS |
|---|----------------------|---|
| Controlled: Aphids Asian citrus psyllid Black fly Citrus leafminer Leafhoppers/Sharpshooters Mealybugs Scales Termites (FL only) Whiteflies | 16 – 32 fl. oz./A | Apply specified rate of Aura 2 F Insecticide using one of the following methods: <ol style="list-style-type: none"> 1. Chemigation into root-zone by means of low-pressure drip, trickle, micro-sprinkler or equivalent equipment. For best results, apply to newly planted trees or those previously trained to drip, trickle, or micro-sprinkler irrigation. Lightly pre-wet the soil to break soil surface tension before applying Aura 2 F Insecticide. Chemigation application can be made separate to normal irrigation but followed by 10 to 20 minutes of additional watering to move Aura 2 F Insecticide into the root-zone. Allow 24 hours before initiating subsequent irrigations; |
| Suppressed Citrus nematode Symptoms of: Citrus tristeza virus (CTV) through vector control Citrus yellows Thrips (foliage feeding thrips only) | 32 fl. oz./A | <ol style="list-style-type: none"> 2. Soil surface band spray on both sides of the tree. Overlap bands at the tree base to create a continuous band within the drip-line area of the tree, to be followed immediately with light sprinkler irrigation sufficient to move the product into the upper portion of the root-zone. This method is suitable for very coarse soils with 0.75% organic matter or less; 3. Drench to base of tree not exceeding one-quart total solution per tree immediately around trunk of tree and extending outward covering the entire fibrous root system of the tree. Use only for trees up to 8 feet tall; 4. For control of existing termite infestations, apply specified dosage in 1 to 4 quarts of total solution volume, depending on size of tree, as a drench application to the basal portion of the tree trunk and surrounding soil in the immediate vicinity of the tree trunk. 5. For suppression of citrus nematode, apply specified rate through low-pressure chemigation or soil surface band spray only, ensuring complete coverage of the root system and utilizing application directions stated above for the respective application method. Repeated and regular use of Aura 2 F Insecticide over several consecutive growing seasons provides the greatest degree of nematode suppression and yields the greatest plant response. |
| Restrictions: | | |

- Pre-Harvest Interval (PHI): 0 day
- Do not apply more than 32 fl. oz. (0.5 lb. a.i.) Aura 2 F Insecticide per acre per season.

COFFEE

| PESTS | RATE | INSTRUCTIONS |
|--|----------------------|--|
| Controlled Aphids Leafhoppers Leafminer Suppressed Scales | 16 – 32 fl. oz./A | Use one of the following methods to apply the specified rate of Aura 2 F Insecticide : <ol style="list-style-type: none"> 1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment; 2. Subsurface side-dress shanked into the root-zone on both sides of the plants followed by irrigation; 3. Basal, soil drench in sufficient water to insure incorporation into the root-zone followed by irrigation. |

Restrictions:

- Do not apply pre-bloom or during bloom or when bees are actively foraging.
- Pre-Harvest Interval (PHI): 7 days
- Do not apply more than 32 fl. oz. (0.5 lb. a.i.) Aura 2 F Insecticide per acre per crop season.

CRANBERRIES

| PESTS | RATE | INSTRUCTIONS |
|--|----------------------|---|
| Rootgrubs (Scarabaeidae) Rootworms (Chrysomelidae) | 16 – 32 fl. oz./A | Apply Aura 2 F Insecticide to moist soil. Apply specified rate of Aura 2 F Insecticide using one of the following methods: <ol style="list-style-type: none"> 1. As a soil spray (ground application) directed to the root and crown area using at least 20 gallons of water per acre; 2. As a chemigation application with 600 to 1000 gallons water. <p>Immediately upon application, incorporate Aura 2 F Insecticide into root-zone by 0.1 – 0.3 inches water/Acre, either with the chemigation application or through irrigation/rainfall if not applied through chemigation. Inadequate incorporation within 24 hours of application may result in reduced control.</p> <p><u>Rootgrubs and Rootworms:</u> Make application post-bloom immediately after bees are removed. Target applications to early instar larvae.</p> <p>Aura 2 F Insecticide has not been tested for crop response in tank mixes with other registered fungicides or insecticides. If tank mixing is desired, premix a sample of Aura 2 F Insecticide and the desired fungicide or insecticide partner at labeled rates and apply to a small area. Evaluate crop response within 48 hours and for at least two weeks prior to utilizing the tank mix on larger acreage. If crop injury results from the premix test, do not apply the tank mix to larger acreage.</p> |

Restrictions:

- Do not apply pre-bloom or during bloom or when bees are actively foraging.
- Pre-Harvest Interval (PHI): 30 days
- Do not apply more than 32 fl. oz. (0.5 lb. a.i.) Aura 2 F Insecticide per acre per season.

GRAPES

Including: American bunch grape, Muscadine grape and Vinifera grape.

| PESTS | RATE | INSTRUCTIONS |
|--|------------------------------|--|
| <p>Controlled: European fruit lecanium Mealybugs Leafhoppers/Sharpshooters <i>Phylloxera</i>* spp.</p> | <p>16 – 32 fl. oz./A</p> | <p>Apply specified rate of Aura 2 F Insecticide using one of the following methods:</p> <ol style="list-style-type: none"> 1. Chemigation into root-zone by means of low-pressure drip, trickle, micro-sprinkler or equivalent equipment; 2. Subsurface side-dress shanked into the root-zone on both sides of the plants followed by irrigation; 3. Hill drench in sufficient water to insure incorporation into the root-zone followed by irrigation. 4. For suppression of nematodes, apply 32 fluid ounces in a single application or two 16 fluid ounce applications on a 30 to 45-day interval. Apply treatment(s) only by 1) chemigation into root-zone through above ground low-pressure drip, trickle, micro-sprinkler or equivalent equipment; or 2) French plow technique followed immediately by sufficient irrigation to move the product into the entire root-zone of the plant. Repeated and regular use of Aura 2 F Insecticide over several consecutive growing seasons provides the greatest degree of nematode suppression and yields the greatest plant response. <p>For best results, apply between bud-break and the pea-berry stage. Apply a total of 32 fluid ounces/A under any of the following conditions:</p> <ol style="list-style-type: none"> 1. Where vigorous vine growth is expected; 2. In warmer growing regions; 3. Where mealybug and European fruit lecanium populations are expected to be heavy; 4. Where vine populations exceed 600 per acre, or; 5. For suppression of nematodes. <p>* Repeated and regular use of Aura 2 F Insecticide over several, consecutive growing seasons controls existing <i>Phylloxera</i> infestations over time or prevents <i>Phylloxera</i> from becoming established.</p> |
| <p>Suppressed: Grapeleaf Skeletonizer Nematodes Pierce’s disease</p> | <p>24 – 32 fl. oz./A</p> | <p>Apply specified rate of Aura 2 F Insecticide using one of the following methods:</p> <ol style="list-style-type: none"> 1. Chemigation into root-zone by means of low-pressure drip, trickle, micro-sprinkler or equivalent equipment; 2. Subsurface side-dress shanked into the root-zone on both sides of the plants followed by irrigation; 3. Hill drench in sufficient water to insure incorporation into the root-zone followed by irrigation. 4. For suppression of nematodes, apply 32 fluid ounces in a single application or two 16 fluid ounce applications on a 30 to 45-day interval. Apply treatment(s) only by 1) chemigation into root-zone through above ground low-pressure drip, trickle, micro-sprinkler or equivalent equipment; or 2) French plow technique followed immediately by sufficient irrigation to move the product into the entire root-zone of the plant. Repeated and regular use of Aura 2 F Insecticide over several consecutive growing seasons provides the greatest degree of nematode suppression and yields the greatest plant response. <p>For best results, apply between bud-break and the pea-berry stage. Apply a total of 32 fluid ounces/A under any of the following conditions:</p> <ol style="list-style-type: none"> 1. Where vigorous vine growth is expected; 2. In warmer growing regions; 3. Where mealybug and European fruit lecanium populations are expected to be heavy; 4. Where vine populations exceed 600 per acre, or; 5. For suppression of nematodes. <p>* Repeated and regular use of Aura 2 F Insecticide over several, consecutive growing seasons controls existing <i>Phylloxera</i> infestations over time or prevents <i>Phylloxera</i> from becoming established.</p> |
| <p>Restrictions:</p> <ul style="list-style-type: none"> • Pre-Harvest Interval (PHI): 30 days • Do not apply more than 32 fl. oz. (0.5 lb. a.i.) Aura 2 F Insecticide per acre per season. | | |

HOPS

| PESTS | RATE | INSTRUCTIONS |
|---|-------------------|---|
| Aphids | 19.2 fl. oz./A | Apply specified rate of Aura 2 F Insecticide using one of the following methods: <ol style="list-style-type: none"> 1. Chemigation into root-zone by means of low-pressure drip, trickle, micro-sprinkler or equivalent equipment; 2. Subsurface side-dress shanked into the root-zone on both sides of the plants followed by irrigation; 3. Hill drench in sufficient water to insure incorporation into the root-zone followed by irrigation. |
| Restrictions: <ul style="list-style-type: none"> • Pre-Harvest Interval (PHI): 60 days • Do not apply more than 19.2 fl. oz. (0.3 lb. a.i.) Aura 2 F Insecticide per acre per season. | | |

POME FRUIT

Crops of Crop Group 11 including: Apple, Crabapple, Loquat, Mayhaw, Pear (including Oriental pear), Quince

| PESTS | RATE | INSTRUCTIONS |
|---|----------------------|---|
| Aphids (including woolly apple aphid) Leafhoppers | 16 – 24 fl. oz./A | Apply specified rate of Aura 2 F Insecticide through chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler, or equivalent equipment. |
| Restrictions: <ul style="list-style-type: none"> • Do not apply pre-bloom or during bloom or when bees are actively foraging. • Pre-Harvest Interval (PHI): 21 days • Do not apply more than 24 fl oz (0.38 lb ai) Aura 2 F Insecticide per acre per season. | | |

POMEGRANATE

| PESTS | RATE | INSTRUCTIONS |
|---|----------------------|---|
| Aphids Leafhoppers/Sharpshooters Whiteflies | 16 – 32 fl. oz./A | Apply specified rate of Aura 2 F Insecticide through chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler, or equivalent equipment. |
| Restrictions: <ul style="list-style-type: none"> • Do not apply pre-bloom or during bloom or when bees are actively foraging. • Pre-Harvest Interval (PHI): 0 days • Do not apply more than 32 fl oz (0.5 lb ai) Aura 2 F Insecticide per acre per season. | | |

STONE FRUIT

Crops of Crop Group 12 including: Apricot, Cherry (including sweet and tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh and dried).

| In-field Soil Application | | |
|---|----------------------|--|
| PESTS | RATE | INSTRUCTIONS |
| Aphids (including woolly apple aphid) Leafhoppers | 16 – 24 fl. oz./A | Apply specified rate of Aura 2 F Insecticide by chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler, or equivalent equipment. |
| Restrictions: | | |
| <ul style="list-style-type: none"> • Do not apply pre-bloom or during bloom or when bees are actively foraging. • Pre-Harvest Interval (PHI): 21 days • Do not apply more than 24 fl oz (0.38 lb ai) Aura 2 F Insecticide per acre per season. | | |

| Pre-Plant, Root Dip Application | | |
|--|--|--|
| PESTS | RATE | INSTRUCTIONS |
| Black peach aphid (infesting roots) | 2 fl. oz./10 gallons root-dip solution | Mix Aura 2 F Insecticide at the specified rate per 10 gallons of water. Thoroughly wet bare-root transplant to slightly above the graft union by soaking roots in the Aura 2 F Insecticide solution for up to 5 minutes. Allow solution to dry on roots then transplant trees as soon as possible following treatment. |

TREE NUTS

Crops of Crop Group 14 including: Almond, Beechnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Hickory nut, Macadamia nut, Pecan, Pistachio, Walnut (black and English).

| PESTS | RATE | INSTRUCTIONS |
|---|----------------------|---|
| Controlled: Aphids Leafhoppers/Sharpshooters Mealybugs Spittlebugs Termites Whiteflies Suppressed: Pecan scab (from reduction in honeydew deposition) | 16 – 32 fl. oz./A | Apply specified rate of Aura 2 F Insecticide using one of the following methods: <ol style="list-style-type: none"> 1. Chemigation to root-zone by means of low-pressure drip, trickle, micro-sprinkler or equivalent irrigation equipment. Pre-wet soil prior to application and allow soil to dry following application and prior to subsequent irrigation; 2. Emitter or spot application in a minimum of 4 fl. oz. of mixture per emitter site; 3. Shank or subsurface side-dress, injected to a depth just above or just within the root zone and between the trunk and drip line of the tree canopy. Apply product in a minimum of 10 gallons per acre using multiple shanks on both sides of trees. Ensure product placement is below sod or orchard floor debris. Irrigate the |
| Thrips (foliage feeding thrips only) | 32 fl. oz./A | |

| | | |
|---|--|---|
| | | <p>entire treated area within 48 hours to promote uptake by root system.</p> <p>4. For control of termites, apply specified dosage to slightly moist soil as a high-volume drench to the basal portion of the tree trunk and surrounding soil in the immediate vicinity of the tree trunk. Utilize sufficient carrier volume to penetrate the soil to a depth of 18 to 24 inches to obtain optimum control. Allow soil to dry following treatment and prior to applying any irrigation.</p> <p>Use the higher rates when applied by shank or subsurface sidedress,, used on larger trees, soils with high clay content, for high plant populations, and/or where extended control is desired. Under some conditions, control may not occur for 14 or more days or until two (2) irrigations have been made. Applications made later in the season may result in reduced efficacy.</p> |
| <p>Restrictions:</p> <ul style="list-style-type: none"> • Do not apply pre-bloom or during bloom or when bees are actively foraging. • Pre-Harvest Interval (PHI): 7 days • Do not apply more than 32 fl. oz. (0.5 lb. a.i.) Aura 2 F Insecticide per acre per season. | | |

TROPICAL FRUIT

Including: Acerola, Atemoya, Avocado, Birida, Black sapote, Canistel, Cherimoya, Custard apple, Feijoa, Jaboticaba, Guava, Llama, Longan, Lychee, Marney sapote, Mango, Papaya, Passionfruit, Persimmon, Pulasan, Rambutan, Sapodilla, Soursop, Spanish lime, Star apple, Starfruit, Sugar apple, Wax jambu

| PESTS | RATE | INSTRUCTIONS |
|---|------------------------------|---|
| <p>Controlled: Aphids Avocado lacebug Leafhoppers Whiteflies</p> | <p>24 – 32 fl. oz./A</p> | <p>Apply specified rate of Aura 2 F Insecticide by chemigation through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.</p> |
| <p>Suppressed: Scales Thrips (foliage feeding thrips only)</p> | <p>32 fl. oz./A</p> | |
| <p>Restrictions:</p> <ul style="list-style-type: none"> • Do not apply pre-bloom or during bloom or when bees are actively foraging. • Pre-Harvest Interval (PHI): 6 days • Do not apply more than 32 fl. oz. (0.5 lb. a.i.) Aura 2 F Insecticide per acre per season. | | |

OTHER CROPS

CHRISTMAS TREES

| PESTS | RATE | INSTRUCTIONS |
|---|----------------------|---|
| White grub complex (damage from grubs of Asiatic garden beetle, European and Masked chafer, Japanese beetle, and oriental beetle) | 16 – 32 fl. oz./A | Apply specified rate of Aura 2 F Insecticide using one of the following methods: <ol style="list-style-type: none"> 1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler, or equivalent equipment. 2. 18-inch band on each side of the row (small trees) to full broadcast application (large trees) followed by rainfall or 0.25 to 1 inch of irrigation within 12 hours after application. <p>Soil incorporation and movement of Aura 2 F Insecticide to the root-zone is required for activity. Aura 2 F Insecticide can be incorporated most readily when applied to moist soil.</p> <p>For optimal grub control, apply Aura 2 F Insecticide during adult flight activity or up to mid-July when 1st instar larvae are present.</p> |
| Restrictions: | | |
| <ul style="list-style-type: none"> • Do not apply more than 32 fl oz (0.5 lb ai) Aura 2 F Insecticide per acre per season. | | |

POPLAR/COTTONWOOD

Includes members of the genus *Populus* grown for pulp or timber

| Field Applications | | |
|--|----------------------|---|
| PESTS | RATE | INSTRUCTIONS |
| Controlled: Aphids Cottonwood leaf beetle Suppressed: <i>Phylloxerina popularia</i> | 16 – 32 fl. oz./A | Apply specified rate of Aura 2 F Insecticide using one of the following methods: <ol style="list-style-type: none"> 1. Chemigation through low-pressure drip irrigation. 2. For narrow-row, cutting orchards/nurseries used for plant propagation, shank into root-zone followed by adequate irrigation to promote uptake. Adequate irrigation depends on soil moisture level at application. Under dry conditions, apply 0.25 inches water/Acre. <p><u>For Cottonwood leaf beetle:</u> Protection against damage will occur when application is made early-season, when the beetles first begin feeding. Larger trees may require earlier treatment as a result of slower uptake.</p> <p><u>For Phylloxerina:</u> Apply early in the year, from break of dormancy through May.</p> |
| Restrictions: | | |
| <ul style="list-style-type: none"> • Use not permitted in California unless otherwise directed by supplemental labeling. • Do not apply pre-bloom or during bloom or when bees are actively foraging. • Do not apply more than 32 fl. oz. (0.5 lb. a.i.) Aura 2 F Insecticide per acre per crop season. | | |

| Cutting/Whip Applications | | |
|--|---|--|
| PESTS | RATE Cutting/Whip Soaking Solution fl. oz. per 100 gallons | INSTRUCTIONS |
| <p>Controlled: Cottonwood leaf beetle</p> <p>Suppressed: Aphids <i>Phylloxera popularia</i></p> | <p>13.3 – 26.6 (unhydrated cuttings/whips)</p> <p>26.6 – 40.1 (partially hydrated cuttings/whips)</p> | <p>Apply specified rate of Aura 2 F Insecticide using one of the following methods:</p> <ol style="list-style-type: none"> 1. For freshly cut (unhydrated) cuttings/whips, soak plant material in specified solution concentration for 24 hours prior to cold storage. After removal from cold storage, plant as needed. 2. For previously hydrated cuttings/whips removed from cold storage, allow plant material to reach room temperature and soak in specified solution concentration for 24 hours prior to planting. <p>Moisture content of cuttings/whips prior to application, the solution concentration, and the length of soaking interval interact to affect the amount of product absorbed into plant material. For a constant soaking interval of 24 hours, drier cuttings/whips absorb a higher quantity of solution and require a lower concentration. Conversely, more hydrated cuttings/whips absorb less solution and require a higher concentration. Soak cuttings/whips in a covered container in absence of UV light. Not all <i>Populus</i> sp. clones/varieties/hybrids have been tested for crop safety. Without specific knowledge about a particular <i>Populus</i> sp. clone/variety/hybrid, United Phosphorus, Inc. recommends that small numbers of cuttings/whips of each be treated and evaluated prior to commercial use.</p> <p>Proper care must be taken in disposal of any residual soaking solution. Solution may be applied to existing trees or other registered crops as long as all product label precautions and restrictions are observed.</p> |
| <p>Restrictions:</p> <ul style="list-style-type: none"> • Use not permitted in California unless otherwise directed by supplemental labeling. • Do not apply more than 32 fl. oz. (0.5 lb. a.i.)/A Aura 2 F Insecticide per crop season. | | |

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READ BEFORE USING PRODUCT

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