



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

42750-140

8/18/06

NOTICE OF PESTICIDE:

Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Imidacloprid 4FL AG

Name and Address of Registrant (include ZIP Code):

Albaugh, Inc.
P.O. Box 2127
Valdosta, GA 31604-2127

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.
2. The data requirements for storage stability and corrosion characteristics are not satisfied. A one year study is required to satisfy these data requirements.

Signature of Approving Official:

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

Date:

8/18/06

3. Make the following label changes before you release the product for shipment:
- a. Revise the EPA Registration Number to read, "EPA Reg. No. **42750-140.**"
 - b. On pg. 1, delete the phrase, "For uses in pest management and suppression of insect vectored diseases and maintenance of plant health."
 - c. Under the "Environmental Hazards" section on pg. 2, add the following language after the third paragraph: "**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.**"
 - d. On pg. 9 under the directions for use on "Potato," add the following restriction:
 - "**Notes and Restrictions for Potato: Maximum allowed per crop season: 10 fluid ounces/acre (0.31 lb AI/Acre).**"
 - e. On pg. 9 under the directions for "Potato (Seed Piece Treatment), correct the following: "...0.2 to 0.4 fluid ounces *per 1,000 row feet,*" must be changed to, "**0.2 to 0.4 fluid ounces per 100 lbs seed.**"
 - f. On pg. 9 under the directions for "Potato (Seed Piece Treatment), add the following restriction:
 - "**Use not permitted in CA unless otherwise directed by supplemental labeling.**"
 - g. On pg. 11 under the directions for "Curcubit Vegetables," add the following restriction:
 - "**Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.**"
 - h. On pg. 11 under the directions for "Curcubit Vegetables (Planthouse Application)," add the following restrictions:
 - "**Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.**"
 - "**Notes and Restrictions for Curcubit Vegetables (Planthouse Application): Maximum amount applied in the planthouse: 0.05 fluid ounces (0.00156 pound AI)/1,000 plants, and maximum number of applications in planthouse = 1.**"
 - "**Use not permitted in CA unless otherwise directed by supplemental labeling.**"
 - i. On pg. 13 under the directions for "Fruiting Vegetables (Planthouse Application)," correct the following: "...0.05 fluid ounces (*0.0078 lb AI*)/10,000 plants," must be changed to, "**0.05 fluid ounces (0.00156 lb AI)/1,000 plants.**"
 - j. On pg. 20 under the directions for "Strawberry (Post-harvest use on Perennial Crops)," add the following text so the directions read, "To control White grub complex (grubs or Asiatic garden beetle, ... , Oriental beetle), **apply 8.0 – 12.0 fluid ounces/Acre.**"

- k. On pg. 20 under the directions for "Strawberry (Post-harvest use on Perennial Crops)," add the following restrictions:
 - "Not for use on crops grown for seed unless allowed by state-specific supplemental labeling."
 - "Do not use both application methods on the same crop in the same season."
- l. On pg. 21, fill in the "Conversion Chart for Linear Application" in its entirety with the appropriate values.
- m. On pg. 27 under the directions for use on "Stone Fruit," add the following restriction:
 - **Maximum allowed per crop season: 12 fluid ounces/acre (0.38 lb AI/Acre)**
- n. On pg. 28 under the directions for use on "Tropical Fruit," remove "birida." This fruit is not yet registered for imidacloprid use.
- o. On pg. 29 under the "Conditions" paragraph, change the word "should" to "must," so that the first sentence reads, "The directions for use of this product are believed to be adequate and **must** be followed carefully."

The word, "should," may mislead users to believe that the directions for use are only suggestions and not enforceable restrictions on how the product may be used. Therefore, all statements related to using the product in accordance with labeling are required to be mandatory (i.e. "must"). This change will be required for all such statements.

- p. On pg. 29 under the "Disclaimer of Warranties" paragraph, insert the phrase, "To the extent consistent with applicable law," before the first and third sentences. The sentences must read, "**To the extent consistent with applicable law**, Albaugh, Inc. makes no other warranties..." and, "**To the extent consistent with applicable law**, Albaugh, Inc. disclaims any liability whatsoever..." On pg. 29 under the "Limitations of Liability" paragraph, insert the phrase, "To the extent consistent with applicable law," before the first sentence. The sentence must read, "**To the extent consistent with applicable law**, the exclusive remedy of the user or buyer..."

The phrase, "to the extent consistent with applicable law," must be added to disclaimers of liability and damages to avoid the statements being false or misleading. Some states or localities may not allow certain disclaimers; therefore the user/buyer may have a remedy under other law governing agencies. This change will be required for all such statements.

4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

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

Enclosure

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IMIDACLOPRID 4FL AG

For uses 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. 40.7%

INERT INGREDIENTS: 59.3%

TOTAL: 100.0%

Contains 4 pounds of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

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 a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 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 INHALED:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration. • Call a poison control center or doctor for further treatment advice.
In case of emergency call CHEMTREC toll free at 1-800-424-9300. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.	
Note To Physician: No specific antidote is available. Treat the patient symptomatically.	

EPA Reg. No. 42750-xxx
NET CONTENTS: _____

EPA Est. No. xxxxxx-xxx-xxx

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

AUG 18 2006

**Under the Federal Insecticide,
Fungicide, and Herbicide Act,
as amended, for the pesticide
registered under EPA Reg. No.
42750-140**

Manufactured For:
ALBAUGH, INC.
ANKENY, IA 50021

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed, absorbed through skin, or inhaled. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical resistant to this product are listed below. More for Category C on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

1. Long-sleeved shirt and long pants
2. Chemical-resistant gloves made of any waterproof material such as, nitrile rubber, butyl rubber, neoprene rubber, barrier laminate, polyethylene, polyvinyl chloride (PVC) or viton.
3. 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, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. Remove Personal Protective Equipment 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.

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 of 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, applications should be made 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 temperature 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 containment pad is not used, maintained 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.

Runoff Management

Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip. When using IMIDACLOPRID 4FL AG on erodible soils, Best Management Practices for minimizing runoff should be employed. Consult your local Natural Resources Conservation Service for recommendations in your use area.

Endangered Species Notice

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 may develop resistance to imidacloprid after repeated use. Users should incorporate *resistance management practices* such as rotating classes of insecticides when possible.

Insect species that have acquired a tolerance to imidacloprid and other neonicotinoid (Group 4A) insecticides may become dominant if Group 4A is used repeatedly. This can eventually result in the loss of this class of insecticides as a viable control.

Do not make over three consecutive applications of IMIDACLOPRID 4FL AG and/or other Group 4A neonicotinoid class products having a similar mode of action. Following a neonicotinoid series of treatments, Albaugh recommends rotation to application with products that control with a different mode of action before making more applications of neonicotinoid products. Using a rotation of insecticide classes approach, along with other IPM practices, is an effective strategy for minimizing insect pest's resistance to this class of chemistry.

Soil applications of neonicotinoid class insecticides to crops should be factored into the resistance management plans for foliar applications to the crops.

Other Group 4A, neonicotinoid products labeled for foliar treatments include: Actara, Assail, CALYPSO®, Centric, Intruder, LEVERAGE® and TRIMAX®. Other 4A Group, neonicotinoid products used as soil treatment include: ADMIRE® and Platinum. Additional information on insect resistance management can be obtained from your local extension specialist, certified crop advisor, product manufacturer or visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://irac-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 treated 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:

1. Coveralls
2. Chemical-resistant gloves made of any waterproof material such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or viton
3. Shoes plus socks

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or 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, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, 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 smoke.

Do not apply this product through any type of irrigation system unless it is specified in the "Recommended Application" section.

APPLICATION RECOMMENDATIONS

Direct applications of IMIDACLOPRID 4FL AG into the seed or root-zone of crop. Lack of correct application of IMIDACLOPRID 4FL AG into seed or root-zone could result in lessened or delayed efficacy. IMIDACLOPRID 4FL AG may be applied with ground or chemigation application. Do not apply with aerial application equipment. Broadcast, foliar applications are only recommended to seedling flats or trays, or where product is intended to be washed from foliage to soil prior to drying on foliage.

Best results of IMIDACLOPRID 4FL AG application are achieved when applications are made to the root-zone of plants. Earlier application of IMIDACLOPRID 4FL AG to developing plant results in earlier protection. IMIDACLOPRID 4FL AG is a systemic insecticide and moves from the plant's root system to the upper vegetative parts via the xylem tissue. This movement results in extended activity of IMIDACLOPRID 4FL AG, to control insects that can vector detrimental virus transmission. Higher rates should be made when insecticidal pressure occurs later in the plants development cycle or when insect pressure is heavy and/or continuous. Despite the systemic nature of IMIDACLOPRID 4FL AG, it usually does not control insects that infest flowers, blooms or fruit. Insects attacking these parts of a plant generally require a foliar type insecticide application. More specific IMIDACLOPRID 4FL AG application recommendations are provided in the crop-specific sections of this label.

Suppression, or less than complete control of certain diseases and insect pests including reduced feeding may also result from an IMIDACLOPRID 4FL AG applications. Complete control of these pests/diseases may require supplemental control measures.

IMIDACLOPRID 4FL AG use on crops grown for production of true seed intended for private or commercial planting is generally not recommended but may be allowed under State specific, supplemental labeling. Extreme care should be taken to minimize exposure of IMIDACLOPRID 4FL AG to honey bees and other beneficial pollinators. Contact your local Cooperative Extension Service, PCAs, consultants or local Albaugh representative for application on these type crops.

IMIDACLOPRID 4FL AG should be pre-mixed with water or other appropriate diluents prior to application. Maintain constant agitation to avoid settling.

Do not apply more than 0.50 lbs active ingredient per acre, per crop season, regardless of formulation or

method of application, unless specified within a crop-specific, Recommended Applications section for a given crop.

MIXING INSTRUCTIONS

1. Add a 50% of the required amount of water to the spray tank
2. Begin agitation
3. Add labeled rate of IMIDACLOPRID 4FL AG
4. Add balance of water needed.

Maintain sufficient agitation during both mixing and application. IMIDACLOPRID 4FL AG may be tank mixed with other pesticides and/or fertilizer solutions. Refer to Compatibility Note below. When tank mixing IMIDACLOPRID 4FL AG with other pesticides, prepare the tank mixture as recommended above and follow suggested Mixing Order below.

Mixing Order for Tank Mixes

1. Wettable powders
2. IMIDACLOPRID 4FL AG, or other flowables second,
3. Emulsifiable concentrates

Maintain good agitation as each pesticide is added. Do not add the next product until the previous is thoroughly mixed. If a fertilizer solution is added, a fertilizer pesticide compatibility agent may be needed. Maintain constant agitation during both mixing and application to ensure uniformity of spray mixture.

Compatibility Note

Unless the applicator has prior knowledge of the compatibility of the intended tank mixture, Albaugh recommends a small scale test by adding proportionate amounts of each ingredient in the appropriate order, to a clear pint or quart sized jar. Cap and shake for 5 minutes, then let set for 5 minutes. Any visual indication of poor mixing or formation of precipitates that cannot be easily re-dispersed indicates incompatibility and the mixture that should not be used.

USE IN CHEMIGATION SYSTEMS

Types of Irrigation Systems: Chemigation applications of IMIDACLOPRID 4FL AG may only be made to crops through chemigation systems as specified in crop-specific Application sections and only through low-pressure irrigation systems unless specifically recommended for a given crop. Do not apply IMIDACLOPRID 4FL AG 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, you should 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, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to 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 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 for which no tolerances for the active ingredient have been established, a 12-month plant-back interval should be observed.

PLANTBACK INTERVAL	COMMENT
Immediate Plant-back:	Any crop listed on this label plus the following crops not on this label: barley, canola, cardoon, Chinese celery, corn (field, sweet and pop), Celuce, cranberry*, cucurbits, Florence fennel, leafy petioles*, mustard seed*, rapeseed, rhubarb, sorghum, sugar beet, Swiss chard and wheat.
30-Day Plant-back:	Cereals (including buckwheat, millet, oats, rice, rye and triticale), soybeans, safflower
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

To control Aphids, Plant bugs, Thrips, Whiteflies apply 0.65 fluid ounces per 1,000 row feet. Equivalent to 8.5 to 10.55 fluid ounces per acre depending on row spacing.

Apply label rate of IMIDACLOPRID 4FL AG in one of the following methods:

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.

Notes and Restrictions for Cotton:

- Maximum IMIDACLOPRID 4FL AG allowed per crop season: 10.55 fluid ounces/Acre (0.33 lb ai/Acre)
- Apply no more than 0.5 lb active ingredient of imidacloprid per acre per season including seed treatment, soil and foliar uses.
- Do not apply more than a total of 6 applications of the active ingredient per season.
- Do not graze treated fields after any application of IMIDACLOPRID 4FL AG.

Please see Resistance Management section of this label.

POTATO

To control Aphids, Colorado potato beetle, Flea beetles, Potato Psyllids apply 0.45 to 0.65 fluid ounces per 1,000 row feet. Equivalent to 6.5 to 10.0 fluid ounces per acre depending on row spacing.

To suppress wireworms or in response to symptoms of Potato leaf roll virus (PLRV), Potato yellows, or Net necrosis (PLRV) apply 0.45 to 0.65 fluid ounces per 1,000 row feet. Equivalent to 6.5 to 10.0 fluid ounces per acre depending on row spacing.

SOIL APPLICATION

Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

1. In-furrow spray during planting directed on the 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. In the bedding operation (7 days or less) before planting, apply a narrow band directly below the eventual seed row. To be effective 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 shallow water table, at-plant applications of IMIDACLOPRID 4FL AG may be made in a 2 to 4 inch band (width of planter shoe opening) and completely covered.

POTATO (Seed Piece Treatment)

To control Aphids, Colorado potato beetle, Flea beetles, Leafhoppers, Potato Psyllids, and Wireworms apply 0.2 to 0.4 fluid ounces per 1,000 row feet. Equivalent to 4.0 to 8.0 fluid ounces per acre depending on row spacing. (Based on a seeding rate of 2000 lbs/acre)

In response to symptoms of Potato leaf roll virus (PLRV), Potato yellows, or Net necrosis (PLRV) apply 0.4 fluid ounces per 1,000 row feet. Equivalent to 8.0 fluid ounces per acre depending on row spacing.

Apply specified dosage as a diluted spray onto seed-pieces using a shielded spray system. Dilute with 3 parts water, or less, to 1 part IMIDACLOPRID 4FL AG. Maintain agitation during application. Fungicidal dust treatments may be applied after IMIDACLOPRID 4FL AG application. Application should only be made in areas with adequate ventilation. Plant seed-pieces as soon as possible after treating. Seed-pieces treated with Imidacloprid 4FL AG should not be exposed to sunlight.

Notes and Restrictions for Potato Seed Piece Treatment:

- Maximum IMIDACLOPRID 4FL AG allowed per crop season: 10.0 fluid ounces/Acre (0.31 lb AI/Acre)
- Do not use treated seed-pieces for food, feed, or fodder.
- Do not apply any subsequent application of IMIDACLOPRID 4FL AG or any other imidacloprid based product (in-furrow), following an IMIDACLOPRID 4FL AG seed-piece treatment.

TOBACCO

To control Mole Crickets, Whiteflies, Wireworms apply 0.7 to 1.4 fluid ounce per 1,000 plants as seedling tray drench or 0.9 to 1.4 fluid ounces per 1000 plants as an in-furrow or transplant water.

To suppress cutworms or in response to symptoms of Tomato spotted wilt virus (TSWV) apply 0.7 to 1.4 fluid ounce per 1,000 plants as seedling tray drench or 0.9 to 1.4 fluid ounces per 1000 plants as an in-furrow or transplant water.

Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

1. Broadcast foliar spray to seedlings in trays (tray drench) not more than 7 days prior to transplanting. Follow as soon as possible with overhead irrigation to wash IMIDACLOPRID 4FL AG from foliage into potting media. Failure to wash IMIDACLOPRID 4FL AG from foliage may result in a reduction in 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.

Note: Proper drench applications to plants in trays with IMIDACLOPRID 4FL AG are generally the best method of application. However, the specified rate of IMIDACLOPRID 4FL AG 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 IMIDACLOPRID 4FL AG into the plant and a delay in control.

To control Aphids and Flea beetles apply 0.5 fluid ounce per 1,000 plants as seedling tray drench or 0.7 fluid ounces per 1000 plants as an in-furrow or transplant water.

Notes and Restrictions for Tobacco:

- Pre-Harvest Interval (PHI): 14 days
- Maximum IMIDACLOPRID 4FL AG allowed per crop season is 16.0 fluid ounces/Acre (0.50 lb ai/acre)

VEGETABLE AND SMALL FRUIT CROPS

CUCURBIT VEGETABLES¹

Including: Chayote (fruit), Chinese waxgourd, (Chinese preserving melon), Citron melon, Cuban pumpkin, Cucumber, Gherkin, Gourds (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)

To control Aphids, Cucumber beetles, Leafhoppers, Thrips (Foliar-feeding thrips only), Whiteflies apply 8.0 to 12.0 fluid ounces per acre.

For suppression in response to Bacterial wilt (as vectored by various cucumber beetles Leaf silvering resulting from whitefly feeding apply 8.0 to 12.0 fluid ounces per acre.

Apply specific dosage of IMIDACLOPRID 4FL AG in one of the following methods:

1. Chemigation into root-zone through 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. IMIDACLOPRID 4FL AG must be incorporated into root-zone

Notes and Restrictions for Cucurbit Vegetables:

- Preharvest Interval (PHI): 21 days
- Maximum IMIDACLOPRID 4FL AG allowed per application: 12.0 fluid ounces/Acre (0.38 lb ai/acre)

CUCURBIT VEGETABLES (Planthouse Application)

¹Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

To control Aphids and Whiteflies apply 0.05 fluid ounce per 1000 plants (0.5 fluid ounces per 10,000 plants)

Apply specified dosage to seedlings in trays in the planthouse, targeting soil media (tray drench), not more than 7 days prior to transplanting, in one of the following manners:

1. Uniform, broadcast high-volume foliar spray, followed immediately by sufficient overhead irrigation to wash IMIDACLOPRID 4FL AG from foliage into potting media without loss of gravitational liquid from the bottom of the tray. Failure to wash IMIDACLOPRID 4FL AG 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.

The application made in the planthouse will only provide short-term protection and is not intended as a substitution for a field application. An additional field application must be made within 2 weeks following

transplanting to provide continuous protection. Applications of higher rates or increased number of applications in planthouse may result in significant plant injury. Transplants should be handled carefully during setting to avoid dislodging treated potting media from roots.

Important Note: Not all varieties of fruiting vegetables have been tested for tolerance to IMIDACLOPRID 4FL AG 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.

GREENHOUSE VEGETABLES¹

(mature plants in production greenhouses)
Cucumber, Tomato Only

¹Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

To control Aphids and Whiteflies apply 0.7 fluid ounces per 1000 plants.

Apply specified dosage in a minimum of 16 gallons of water for tomatoes and 21 gallons of water for cucumbers using soil drenches, micro-irrigation, drip irrigation, or hand-held or motorized calibrated irrigation equipment. Do not apply to immature plants since phytotoxicity may occur.

Applications should be made 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 beneficial (Orius sp.) Can occur when IMIDACLOPRID 4FL AG is applied.

Many varieties of vegetables have been tested for tolerance to IMIDACLOPRID 4FL AG and show good safety. However, certain varieties may show more sensitivity to IMIDACLOPRID 4FL AG. Therefore, treatment of a few plants is recommended before treating the whole greenhouse.

Notes and Restrictions for Greenhouse Vegetables:

- Pre-Harvest Interval (PHI): 0 days
- Maximum number IMIDACLOPRID 4FL AG applications per crop season: 1

FRUITING VEGETABLES¹

Including: Eggplant, Ground Cherry, Okra, Pepper (Including Bell peppers, Chili peppers, Cooking peppers, Pimentos and Sweet peppers), Tomato, Pepinos, Tomatillo

¹Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

To control Aphids, Colorado potato beetle, Flea beetles, Leafhoppers, Thrips (Foliar-feeding thrips only), Whiteflies apply 8.0 to 12.0 fluid ounces per acre. For Okra and Pepper apply 8.0 to 16.0 fluid ounces per acre.

For suppression in response to symptoms of Tomato mottle virus, Tomato spotted wilt virus, Tomato yellow leaf curl virus apply 8.0 to 12.0 fluid ounces per acre. For Okra and Pepper apply 8.0 to 16.0 fluid ounces per acre.

Apply specific dosage of IMIDACLOPRID 4FL AG in one of the following methods:

1. Chemigation into root-zone through 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. IMIDACLOPRID 4FL AG must be incorporated into root-zone.

Notes and Restrictions for Fruiting Vegetables:

- Pre-Harvest Interval (PHI): 21 days
- Maximum IMIDACLOPRID 4FL AG allowed on pepper and okra crops per application: 16.0 fluid ounces/Acre (0.50 lb ai/acre)
- Maximum IMIDACLOPRID 4FL AG allowed on other fruiting vegetable crops per application: 12.0 fluid ounces/Acre (0./38 lb ai/acre)

FRUITING VEGETABLES (Planthouse application)*

To control Aphids and Whiteflies apply 0.05 fluid ounce per 1000 plants

Apply specified dosage to seedlings in trays in the planthouse, targeting soil media (tray drench), not more than 7 days prior to transplanting, in one of the following manners:

1. Uniform, broadcast high-volume foliar spray, followed immediately by sufficient overhead irrigation to wash IMIDACLOPRID 4FL AG from foliage into potting media without loss of gravitational liquid from the bottom of the tray. Failure to wash IMIDACLOPRID 4FL AG 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.

The application made in the planthouse will only provide short-term protection and is not intended as a substitution for a field application. An additional field application must be made within 2 weeks following transplanting to provide continuous protection. Applications of higher rates or increased number of applications in planthouse may result in significant plant injury. Transplants should be handled carefully during setting to avoid dislodging treated potting media from roots.

Notes and Restrictions for Fruiting Vegetable Planthouse Application:

- Maximum amount IMIDACLOPRID 4FL AG applied in the planthouse: 0.05 fluid ounces (0.0078 lb

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AI)/10,000 Plants

- Maximum number IMIDACLOPRID 4FL AG applications in planthouse: 1

*Not permitted in California unless otherwise specified by supplemental labeling.

Important Note: Not all varieties of fruiting vegetables have been tested for tolerance to IMIDACLOPRID 4FL AG 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.

HEAD and STEM BRASSICA VEGETABLES¹

Including: Broccoli, Broccoli raab (rapini), Brussels sprouts, Cabbage, Cauliflower, Cavalo broccoli, Chinese (bok choy) cabbage, Chinese (napa) cabbage, Chinese mustard (gai Choy) cabbage, Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard spinach, Rape greens, Turnip tops (leaves)

LEAFY VEGETABLES¹

Including: amaranth (leafy amaranth, Chinese spinach, tampala), Arugula (Roquette), Chervil, Chrysanthemum (edible leaved and garland), Cilantro, 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), Raddicchio (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)

¹Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

To control Aphids and Whiteflies apply 5.0 to 12.0 fluid ounces per acre (based on 36 inch row spacing).

Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

1. Chemigation into root-zone through 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. IMIDACLOPRID 4FL AG must be incorporated into root-zone

Notes and Restrictions for Head and Stem Vegetables and Leafy Vegetables:

- Pre-Harvest Interval (PHI): 21 days
- Maximum IMIDACLOPRID 4FL AG allowed per application: 12.0 fluid ounces/Acre (0.38 lb ai/acre)

LEAFY PETIOLE VEGETABLES

Including: Cardoon, Celery, Chinese celery (fresh leaves and stalk only), Celtuce, Florence fennel including sweet anise, sweet fennel, Finocchio), Rhubarb, Swiss chard

¹Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

To control Aphids, Leafhoppers, Whiteflies apply 5.0 to 12.0 fluid ounces per acre.

Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

1. Chemigation into root-zone through 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. IMIDACLOPRID 4FL AG must be incorporated into root-zone

Notes and Restrictions for Leafy Petiole Vegetables:

- Pre-Harvest Interval (PHI): 45 days
- Maximum IMIDACLOPRID 4FL AG allowed per application: 12.0 fluid ounces/Acre (0.38 lb ai/acre)

LEGUME VEGETABLES¹ (except soybean, dry)

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)

¹Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

To control Aphids, Leafhoppers, Thrips (foliar feeding only), Whiteflies apply 8.0 to 12.0 fluid ounces per acre.

For suppression In response to symptoms of Bean common mosaic virus (BCMV), Bean golden mosaic virus (BGMV), Beet curly top hybrigeminivirus (BCTV) apply 8.0 to 12.0 fluid ounces per acre.

Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

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
3. In a narrow (2" or less) surface band over seed-line during planting incorporated into a depth of 1 to 1 ½ " with sufficient irrigation within 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.

Notes and Restrictions for Legume Vegetables:

- Preharvest Interval (PHI): 21 days
- Maximum IMIDACLOPRID 4FL AG allowed per crop season: 12.0 fluid ounces/Acre (0.38 lb ai/acre)

ROOT VEGETABLES¹

Including: Beet (garden)², Carrot⁻², Burdock (edible)², Celeriac², Chervil (turnip-rooted)², Chicory², Ginseng, Horseradish, Parsley (turnip-rooted), Parsnip², Radish², Oriental radish (diakon)², Rutabaga², Salsify (oyster plant), Salsify (black)-², Salsify (Spanish), Skirret, Turnip²

¹Not for use on crops grown for seed unless allowed by state-specific supplemental labeling

²Tops or greens from these crops may be utilized for food or feed.

To control Aphids, Flea beetles, Leafhoppers, Whiteflies apply 0.35 to 0.85 fluid ounces per 1000 row feet. Equivalent to 5.0 to 12.0 fluid ounces per acre depending on row spacing.

Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

1. Chemigation through 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.

Important Note: Rate applied affects the length of control. Use higher rates where infestations occur later in crop development, or where pest pressure is continuous. IMIDACLOPRID 4FL AG rates less than 0.35 fluid ounces/1000 row-feet will not provide adequate residual pest control. IMIDACLOPRID 4FL AG treated crops grown on very high organic matter soils (muck) may also require additional pest management control.

Notes and Restrictions for Root Vegetables:

- Pre-Harvest Interval (PHI): 21 days.
- Maximum IMIDACLOPRID 4FL AG allowed per crop season: 12.0 fluid ounces/Acre (0.38 lbs AI/Acre).
- Maximum IMIDACLOPRID 4FL AG applications per crop season: 1.

TUBEROUS AND CORM VEGETABLES ¹

Including: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Canna (edible, Queensland arrowroot), Casava (bitter and sweet) ², Chayote (root), Chufa, Dasheen (taro) ², Ginger, Leren, Sweet potato, Tanier (cocoyam) ², Tumeric, Yam bean (jicama, manioc pea), Yam (true) ²
(For recommended applications on potato see Field Crop section)

¹ Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

² Tops or greens from these crops may be utilized for food or feed.

To control Aphids, Flea beetles, Leafhoppers, Whiteflies apply 0.35 to 0.85 fluid ounces per 1000 row feet. Equivalent to 5.0 to 12.0 fluid ounces per acre depending on row spacing.

Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

1. In-furrow spray (rate specified per 1000 row-feet) over planting material (hulis) or shanked-in 1 to 2 inches below hulis depth at planting;
2. Side-dress not more than 0.3 fluid ounces/1000 row-feet no later than 45 days after-planting. Observe same PHI as above.

Note: Rate applied affects the length of control. Use higher rates where infestations occur later in crop development, or where pest pressure is heavy or continuous. IMIDACLOPRID 4FL AG rates less than 0.35 fluid ounces/1000 row-feet will not provide adequate residual pest control. IMIDACLOPRID 4FL AG treated crops grown on very high organic matter soils (muck) may also require additional pest management control.

Notes and Restrictions for Tuberous and Corm Vegetables:

- Pre-Harvest Interval (PHI) from planting application: 3 days (leaves); 125 days (corms).
- Maximum IMIDACLOPRID 4FL AG allowed per crop season: 12.0 fluid ounces/Acre (0.38 lbs AI/Acre).
- Maximum IMIDACLOPRID 4FL AG applications per crop season: 1.

STRAWBERRY (annual and perennial crops)

¹Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

²Do not use both application methods on the same crop in the same season.

To control Aphids and Whiteflies apply 12.0 to 16.0 fluid ounces per acre.

Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

1. Chemigation into root-zone through 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 transplant.

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.

Notes and Restrictions for Strawberries (annual and perennial crops)

- Pre-Harvest Interval (PHI): 14 days
- Maximum IMIDACLOPRID 4FL AG allowed per crop season: 16.0 fluid ounces/Acre (0.50 lb ai/acre)

STRAWBERRY ((Post-harvest Use on Perennial Crops)

To control White grub complex (grubs of Asiatic garden beetle, European and Masked Chafer, Japanese beetle, Oriental beetle)

Apply a single application post harvest to coincide with renovation of strawberry fields and during active egg-laying period of beetles. Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

1. As a ground spray via 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. The bandwidth should be equivalent to the width of the anticipated fruiting bed.
3. As a chemigation application with 600 to 1000 gallons of water followed by 0.10 to 0.25 inches irrigation.

Important Note: All soil-surface applications must be followed by 0.25 inches of rainfall or overhead irrigation water per acre within 2 hours of application. Failure to adequately incorporate IMIDACLOPRID 4FL AG into egg-deposition zone may result in decreased activity of beetle grubs.

Notes and Restrictions for Strawberry Post-harvest use on Perennial Crops:

- Pre-Harvest Interval (PHI): 14 days
- Maximum IMIDACLOPRID 4FL AG allowed preseason: 12.0 fluid ounces/Acre (0.38 lb ai/acre)

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SUGARBEET¹
(For use only in CA)

¹Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

To control Aphids, Leafhoppers, Whiteflies, Flea beetles apply 3.0 to 6.0 fluid ounces per acre.

For suppression in response to symptoms of Western yellows/Beet curly top hybrigeminivirus (BCTV) apply 3.0 to 6.0 fluid ounces per acre.

Apply specified dosage of IMIDACLOPRID 4FL AG in the following method:

1. Apply specified dosage 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 other pests listed.

Notes and Restrictions for Sugarbeets:

- Maximum IMIDACLOPRID 4FL AG allowed per crop season: 6.0 fluid ounces/Acre (0.18 lb ai/acre)
- Maximum imidacloprid allowed per season: 0.18 lb ai/acre (from any formulation) on any row spacing

CONVERSION CHART FOR LINEAR APPLICATION								
RATE Fluid ounces/Acre	Rate in Fluid Ounces / 1000 Row Feet Based On Average Row Spacing (in inches):							
	10	15	20	25	30	35	40	45
5	.095					.335	.380	.430
6	.125					.400	.460	.515
7	.135					.470	.535	.605
8	.155					.535	.610	.690
9	.170					.605	.690	.775
10	.190					.670	.765	.860
11	.210					.735	.840	.945
12	.230					.805	.920	1.035
13	.250					.870	.995	1.120
14	.270					.935	1.07	1.205
15	.285					1.005	1.145	1.290
16	.305					1.07	1.225	1.375

Important Note: The IMIDACLOPRID 4FL AG rate applied affects the length of control and the degree of control. Row-spacing X IMIDACLOPRID 4FL AG rate combinations in shaded blocks may not provide and are not recommended for long-term, residual control. Use higher rates where pest pressure may occur later in crop development or where pest pressure is severe or continuous. Albaugh offers no warranty for use of IMIDACLOPRID 4FL AG at rates below 0.35 fluid ounces/1000 row-feet.

TREE, VINE AND FRUIT CROPS

BUSHBERRY

Including: Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, Juneberry, Ligonberry, Salal

To control Japanese beetle (adults, feeding on foliage), White grub complex (grubs of Asiatic garden beetle, European and Masked chafer, Japanese beetle and Oriental beetle apply 8.0 to 16.0 fluid ounces per acre.

Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

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 followed with 0.25 inches of irrigation immediately after application.

For optimal grub control, apply IMIDACLOPRID 4FL AG to control 1st or 2nd instar larvae. Application may be made post-bloom up to 7 days prior to harvest, or post-harvest until October 1st. For optimum control of Japanese beetle larvae, make applications from June 1 to July 15. Do not apply during bloom.

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.

Apply IMIDACLOPRID 4FL AG to moist soil. If necessary, apply one hour of irrigation water immediately before application of IMIDACLOPRID 4FL AG. To ensure maximum efficacy, ½ to 1 inch of irrigation water or rainfall should be applied or received within 24 hours of application of IMIDACLOPRID 4FL AG to facilitate movement into the soil and into the root-zone

Notes and Restrictions for Bushberry:

- Pre-Harvest Interval (PHI): 7 days
- Maximum IMIDACLOPRID 4FL AG allowed per season: 16.0 fluid ounces/Acre (0.50 lb ai/acre)
- Do not apply during bloom.

CITRUS (Field)

Including: calamondin, citrus citron, Citrus hybrids (includes chironja, tangelo, and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Pummelo, Orange (sweet and sour), Tangelo, Satsuma mandarin, white sapote (Casimiroa spp), and other cultivars and/or hybrids of these.

To control Aphids, Asian citrus psyllid, Blackfly, Citrus leafminer, Leafhopper/Sharpshooters, Mealybugs, Scales, Termites (FL only), Whiteflies apply 8.0 to 16.0 fluid ounces per acre.

For suppression of Thrips (foliage feeding thrips only) and in response to symptoms of Citrus tristeza virus (CTV) through vector control and Citrus yellows apply 16.0 fluid ounces per acre.

Applications

Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment. For optimum results, apply to newly planted trees or those previously trained to drip, trickle or micro-sprinkler irrigation. Soil should be lightly prewetted to break soil surface tension prior to applications of IMIDACLOPRID 4FL AG. Chemigation application can be made separate to normal irrigation but followed by 10 to 20 minutes of additional watering to move IMIDACLOPRID 4FL AG into root-zone. Allow 24 hours before initiating subsequent irrigations.
2. Soil surface band spray on both sides of the tree. Bands should overlap 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. Only recommended for trees up to 8 feet tall.

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.

Notes and Restrictions for Citrus (Field):

- Pre-Harvest Interval (PHI): 0 day
- Maximum IMIDACLOPRID 4FL AG allowed per season: 16.0 fluid ounces/Acre (0.50 lb ai/acre)

CITRUS (containerized)

Including: calamondin, citrus citron, Citrus hybrids (includes chironja, tangelo, and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Pummelo, Orange (sweet and sour), Tangelo, Satsuma mandarin, white sapote (Casimiroa spp), and other cultivars and/or hybrids of these.

To control Aphids, Asian citrus psyllid, Blackfly, Citrus leafminer, Leafhoppers/Sharpshooters), Mealybugs, Scales, Whiteflies apply 0.37 milliliter per cubic foot of container media.

To control Citrus root weevil (larval complex) apply 0.62 to 1.2 milliliters per cubic foot of container media.

To suppress Citrus thrips apply to 1.25 milliliters per cubic foot of container media.

Determine volume of container and calculate dosage necessary to treat container. Apply calculated dosage of IMIDACLOPRID 4FL AG 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 optimal results, treatment should be made at planting prior to insect infestation. Repeat if necessary. For control of larvae of the citrus root weevil complex, application should be made prior to neonate larvae entering potting media. Utilize higher dosage for heavy infestation.

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GRAPE

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

To control Mealybugs, Leafhoppers/Sharpshooters, Phylloxera* spp. Apply 8.0 to 16.0 fluid ounces per acre.

To suppress Pierce's Disease apply 12.0 to 16.0 fluid ounces per acre.

Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

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. Hill drench in sufficient water to insure incorporation into the root-zone followed by irrigation.

For optimum results, make application(s) between bud-break and the pea-berry stage.

*Repeated and regular use of IMIDACLOPRID 4FL AG over several, consecutive growing seasons controls existing Phylloxera infestations over time or prevents Phylloxera from becoming established.

Notes and Restrictions for Grape:

- Pre-Harvest Interval (PHI): 30 days
- Maximum IMIDACLOPRID 4FL AG allowed per season: 16.0 fluid ounces/Acre (0.50 lb ai/acre)

HOP¹

To control Aphids apply 9.6 fluid ounces per acre.

Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

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. Hill drench in sufficient water to insure incorporation into the root-zone followed by irrigation.

¹Use not permitted in California unless otherwise directed by supplemental labeling.

Notes and Restrictions for Hops:

- Pre-Harvest Interval (PHI): 60 days
- Maximum IMIDACLOPRID 4FL AG allowed per season: 9.6 fluid ounces/Acre (0.30 lb ai/acre)

PECAN

To control Aphids and Twolined spittlebug apply 8.0 to 16.0 fluid ounces per acre.

To suppress Pecan scab (from reduction in honeydew deposition) apply 8.0 to 16.0 fluid ounces per acre.

Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

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. Emitter or spot application in a minimum of 4 fluid ounces of mixture per emitter site.

Notes and Restrictions for Pecan:

- Maximum IMIDACLOPRID 4FL AG allowed per season: 16.0 fluid ounces/Acre (0.50 lb ai/acre)
- Applications can be made from May 15 up to July 15. Applications made later in the season may result in reduced efficacy.
- Apply product to slightly moist soil and allow soil to dry prior to additional irrigation.

STONE FRUIT¹

Including: apricot, cherry (including sweet and tart), nectarine, peach, plum (including Chickasaw, Damson and Japanese), Plumcot, prune (fresh and dried)

To control Aphids (including woolly apple aphid) and Leafhoppers apply 8.0 to 12.0 fluid ounces per acre.

Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.

Notes and Restrictions for Stone Fruit:

- Pre-Harvest Interval (PHI): 21 days

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STONE FRUIT (Preplant, Root Drip Application)

To control Black peach aphid (infesting roots) apply 1.0 fluid ounces per 10 gallons of root dip solution.

Mix IMIDACLOPRID 4FL AG at 1.0 fluid ounces per 10 gallons of water. Thoroughly wet bare-root transplant to slightly above the graft union by soaking roots in the IMIDACLOPRID 4FL AG solution for up to 5 minutes. Allow solution to dry on roots and transplant trees as soon as possible following treatment.

POME FRUIT¹

Including: apple, crabapple, loquat, mayhaw, pear (including Oriental pear), quince

To control Aphids (including woolly apple aphid) and Leafhoppers apply 8.0 to 12.0 fluid ounces per acre.

Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.

Notes and Restrictions for Stone Fruit:

- Pre-Harvest Interval (PHI): 21 days
- Maximum IMIDACLOPRID 4FL AG allowed per season: 12.0 fluid ounces/Acre (0.38 lb ai/acre)

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TROPICAL FRUIT¹

Including: acerola, avocado, birida, black sapote, canistel, feijoa, jaboticaba, guava, longan, lychee, mamey sapote, mango, papaya, passionfruit, persimmon, pulasan, rambutan, sapodilla, Spanish lime, star apple, starfruit, wax jambu

To control Aphids, Leafhoppers, Whiteflies apply 12.0 to 16.0 fluid ounces per acre.

To suppress Scales apply 16.0 fluid ounces per acre.

Apply specified dosage of IMIDACLOPRID 4FL AG in one of the following methods:

1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.

Notes and Restrictions for Tropical Fruit:

- Preharvest Interval (PHI): 6 days
- Maximum IMIDACLOPRID 4FL AG allowed per season: 16.0 fluid ounces/Acre (0.50 lb ai/acre)

¹Use not permitted in California unless otherwise directed by supplemental labeling.

POPLAR/COTTONWOOD¹

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

To control Aphids and Cottonwood leaf beetle apply 8.0 to 16.0 fluid ounces per acre.

To suppress Phylloxerina popularia apply 8.0 to 16.0 fluid ounces per acre.

Apply specified dosage of IMIDACLOPRID 4FL AG in the following method:

1. Chemigation through low-pressure drip irrigation.

For Cottonwood leaf beetle, protection against damage will occur when application is made early, when the beetles first begin feeding. Larger trees may require earlier treatment as a result of slower uptake.

For Phylloxerina, apply early in the year, from break of dormancy through May.

Notes and Restrictions for Poplar/Cottonwood:

- Maximum IMIDACLOPRID 4FL AG allowed per season: 16.0 fluid ounces/Acre (0.50 lb ai/acre)

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POPLAR/COTTONWOOD¹

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

To control Aphids and Cottonwood leaf beetle apply 8.0 to 16.0 fluid ounces per acre.

To suppress *Phylloxera popularia* apply 8.0 to 16.0 fluid ounces per acre.

Apply specified dosage of IMIDACLOPRID 4FL AG in the following method:

1. Chemigation through low-pressure drip irrigation.

For Cottonwood leaf beetle, protection against damage will occur when application is made early, when the beetles first begin feeding. Larger trees may require earlier treatment as a result of slower uptake.

For *Phylloxera*, apply early in the year, from break of dormancy through May.

Notes and Restrictions for Poplar/Cottonwood:

- Maximum IMIDACLOPRID 4FL AG allowed per season: 16.0 fluid ounces/Acre (0.50 lb ai/acre)

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