

264-823

06/28/2004

1/17



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
264-823

Date of Issuance:
JUN 28 2004

NOTICE OF PESTICIDE:

Registration

Reregistration

(under FIFRA, as amended)

Term of Issuance: Conditional

Name of Pesticide Product:
Provado 70WG Insecticide

Name and Address of Registrant (include ZIP Code):

Ms. Karen S. Shearer
Bayer CropScience
P.O. Box 12014, 2 T.W. Alexander Drive
Research Triangle Park, NC 27709

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 sec. 3(c)(7)(A). Once a pesticide is registered, however, it is not regarded as permanently acceptable. Registration does not eliminate the need for continual reassessment of pesticides. If the Agency determines that, at any time, additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under FIFRA section (3)(c)(2)(B).

- 1. Revise the EPA Registration Number to read, "EPA Reg. No. 264-823"

Signature of Approving Official:

Dani Daniel
Insecticide-Rodenticide Branch
Registration Division (7505C)

Date:

JUN 28 2004

2/17

Page Two
264-823

2. Submit two (2) copies of your final printed labeling before you release the product for shipment.

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

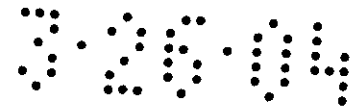
A stamped copy of the label is enclosed for your records. If you have any questions regarding this notice, please contact me at (703) 305-5409.

Enclosure :

3/17

GROUP 4A INSECTICIDE

Provado® 70 WG Insecticide



For control of certain insects infesting various crops.

ACTIVE INGREDIENT:

Imidacloprid, 1-[[6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine 70%

OTHER INGREDIENTS: 30%

EPA Reg. No. 264-XXX

EPA Est. No. 3125-MO-001

**STOP - Read the label before use
Keep out of reach of children**

CAUTION

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577
For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

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 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 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.
<p>In case of emergency call toll free the Bayer CropScience Emergency Response Telephone No. 1-800-334-7577. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<p>Note To Physician: No specific antidote is available. Treat the patient symptomatically.</p>	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves.
- 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 statements:

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.

**ACCEPTED
with COMMENTS
In EPA Letter Dated:
JUN 28 2004**

*Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
264-823*

User Safety Recommendations

User 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 of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

Mixing and Loading Buffer Zone 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, 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, sink-holes, or field drains.

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 Provado® 70 WG Insecticide on erodible soils, Best Management Practices for minimizing runoff should be employed. Consult your local National 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 are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area.

Provado® 70 WG Insecticide contains a Group 4A insecticide called imidacloprid. Insect biotypes with acquired or inherent tolerance to Group 4A products may eventually dominate the insect population if Group 4A products are used repeatedly as the predominant method of control for targeted species. This may eventually result in partial or total loss of control of those species by Provado® and to other Group 4A products.

The active ingredient in Provado® is a member of the neonicotinoid chemical group. Avoid using a block of more than three consecutive applications of Provado® and/or other Group 4A products having the same or similar mode of action. Following a neonicotinoid block of treatments, Bayer CropScience strongly encourages the rotation to a block of applications with effective products of a different mode of action before using additional applications of neonicotinoid products. Using a block rotation or windowed approach, along with other IPM practices, is considered an effective use strategy for preventing or delaying an insect pest's ability to develop resistance to this class of chemistry.

Foliar applications of Provado® or other Group 4A products from the neonicotinoid chemical class should not be used on crops previously treated with a long-residual, soil-applied product from the neonicotinoid chemical class.

Other Group 4A, neonicotinoid products used as foliar treatments include: Actara, Assail, CALYPSO, Centric, Intruder, LEVERAGE, and TRIMAX. Other Group 4A, neonicotinoid products used as soil treatment include: Admire® and Platinum.

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://irac-online.org/>.

5/17

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.

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:

- Long-sleeved shirt and long pants
- Waterproof gloves
- 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. You may contact the Bayer CropScience Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer CropScience Emergency Response telephone number is 1-800-334-7577.

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.

APPLICATION DIRECTIONS

Provado® should be applied as a directed or broadcast foliar spray. Thorough coverage of foliage is necessary without runoff for optimum insecticidal efficacy. Use adequate spray volumes, properly calibrated application equipment and spray adjuvant if necessary to obtain thorough coverage. Failure to provide adequate coverage and retention of Provado® on leaves and fruit may result in loss of insect control or delay in onset of activity. Provado® may be applied with properly calibrated ground or aerial application equipment. Minimum recommended spray volumes unless otherwise specified on crop specific, Recommended Application section are, 10.0 gallons/Acre by ground application, and 5.0 gallons/Acre through aerial equipment. Provado® may also be applied by overhead chemigation (see additional CHEMIGATION DIRECTIONS FOR USE, section below) if allowed in crop specific, Recommended Application section.

Provado® 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. As with any insecticide, care should be taken to minimize exposure of Provado® to honey bees and other pollinators. Use of Provado® on crops requiring bee pollination should be avoided during bloom and a minimum of 10 days prior to bloom. Additional information on Provado® uses for these crops and other questions may be obtained from the Cooperative Extension Service, PCAs, consultants or local Bayer CropScience representatives.

Do not apply more than 0.5 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.

Additional Product Use information may be obtained by calling, 1-866-99BAYER (1-866-992-2937) or visiting our web site at www.bayercropscienceus.com.

MIXING INSTRUCTIONS: To prepare the application mixture, add a portion of the required amount of water to the tank and with agitation add Provado®. Complete filling tank with balance of water needed. Maintain sufficient agitation during both mixing and application. Provado® may also be used with other pesticides and/or fertilizer solutions. **Please see Compatibility note.** When tank mixtures of Provado® and other pesticides are involved, prepare the tank mixture as recommended above and follow suggested Mixing Order below.

Mixing Order

When pesticide mixtures are needed, add PROVADO and other wettable powders or wettable granules first, other flowable (suspension concentrate) products second, and emulsifiable concentrates last. Ensure good agitation as each component is added. Do not add an additional component 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

Test compatibility of the intended mixture before adding PROVADO to the spray or mix tank. Add proportionate amounts of each ingredient in the appropriate order, to a pint or quart jar, cap, shake for 5 minutes, and let set for 5 minutes. Poor mixing or formation of precipitates that do not readily redispense indicates an incompatible mixture that should not be used. For further information, contact your local Bayer CropScience representative.

CHEMIGATION DIRECTIONS FOR USE

Refer to DIRECTIONS FOR USE section before proceeding with chemigation application.

Types of Irrigation Systems

Chemigation applications of PROVADO may be made to crops through overhead sprinkler chemigation systems if specified in crop-specific, Recommendation sections. Do not apply PROVADO through any other type of irrigation system.

Water Volume

PROVADO chemigation applications should be made as concentrated as possible. Retention of PROVADO on target site of insect infestation is necessary for optimum activity. Chemigation of PROVADO in water volumes exceeding 0.10 inches/Acre are not recommended.

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

DO NOT APPLY PROVADO THROUGH ANY IRRIGATION SYSTEM PHYSICALLY CONNECTED TO A PUBLIC WATER SYSTEM. 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. PROVADO may be applied through irrigation systems which may be supplied by a public water system only if the water from the public water system is 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. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

Any irrigation system using water supplied from a public water system must also meet the following requirements. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

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.
Immediate Plant-back All crops on this label plus the following crops not on this label: barley, canola, corn (field, sweet and pop), rapeseed, sorghum, sugar beet, and wheat.
30-Day Plant-back Cereals (including buckwheat, millet, oats, rice, rye, and triticale), legumes (including soybeans and peas), safflower
120-Day Plant-back Bulb crops (Garlic, Great-headed garlic (elephant), Leek, Onion (including dry bulb, green and Welsh), Shallot
12-Month Plant-back All Other Crops
*Cover crops for soil building or erosion control may be planted any time but may not be grazed or harvested for food or feed.

FIELD CROPS
Recommended Applications – PROVADO® 70 WG Insecticide

Apply specified rate per acre as foliar spray as pest populations begin to build. Thorough, uniform coverage is necessary to achieve optimal control. A spray adjuvant may be used to improve coverage. PROVADO may not knockdown established and heavy insect populations. Two applications may be required to achieve control. Scout fields and retreat if needed. PROVADO may be tank mixed with other insecticides as recommended for knockdown of pests or for improved control of other pests.

COTTON

Pests Controlled	Rate ounces/Acre
Aphids Fleahopper Plant bugs (East of Rocky Mountains)	1.1
Pests Suppressed	
Lygus bug (West of Rocky Mountains) Whiteflies	1.1
Notes and Restrictions	
Pre-Harvest Interval (PHI): 14 days	
Minimum interval between applications: 7 days	
Maximum PROVADO allowed per crop season: 6.6 ounces/Acre (0.29 lb A/A)	
Maximum number of PROVADO applications per crop season: 6	
Applications	
Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground, aerial or chemigation application equipment.	

8/17

POTATO

Pests Controlled	Rate ounces/Acre
Aphids Colorado potato beetle Flea beetles Leafhoppers Psyllids	1.1
Notes and Restrictions Pre-Harvest Interval (PHI): 7 days Minimum interval between applications: 7 days Maximum PROVADO allowed per crop season: 4.6 ounces/Acre (0.20 lb AI/A) Applications Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment.	

TOBACCO

Pests Controlled	Rate ounces/Acre
Aphids	0.6 – 1.2
Flea beetles Japanese beetle	1.2
Notes and Restrictions Pre-Harvest Interval (PHI): 14 days Minimum interval between applications: 7 days Maximum PROVADO allowed per crop season: 6.4 ounces/Acre (0.28 lb AI/A) Applications Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment.	

VEGETABLE and SMALL FRUIT CROPS

Recommended Applications – PROVADO® 70 WG Insecticide

Apply specified rate per acre as foliar spray as pest populations begin to build. Thorough, uniform coverage is necessary to achieve optimal control. A spray adjuvant may be used to improve coverage. PROVADO may not knockdown established and heavy insect populations. Two applications may be required to achieve control. Scout fields and retreat if needed. PROVADO may be tank mixed with other insecticides as recommended for knockdown of pests or for improved control of other pests.

FRUITING VEGETABLES^{2/}

Eggplant, Ground cherry, Okra ^{1/}, Pepper (including bell, chili, cooking, pimento and sweet) Tomato, Pepinos, Tomatillo

Pests Controlled	Rate ounces/Acre
Aphids Colorado potato beetle Leafhoppers Whiteflies	1.1
Pepper weevil (Pepper only)	1.8

Notes and Restrictions

Pre-Harvest Interval (PHI): **0 days**

Minimum interval between applications: **5 days**

Maximum PROVADO allowed per crop season: **5.5 ounces/Acre** (0.24 lb A/A)

Applications

For all pests listed except Pepper weevil, apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment.

For Pepper weevil, apply specified dosage of PROVADO as a broadcast or directed spray by ground equipment to infested area, timing applications prior to a damaging population becoming established. Good coverage of foliage and fruit is necessary for optimal control. Applications of PROVADO must be incorporated into a full-season program, where alternations of effective products from multiple classes of chemistry and different modes of action are utilized in a blocked or windowed approach. For additional information, please contact your Bayer representative, Extension Specialist or crop advisor.

^{1/} Use not permitted in California unless otherwise directed by supplemental labeling.

^{2/} Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

GLOBE ARTICHOKE ^{1/}

Pests Controlled	Rate ounces/Acre
Aphids Leafhoppers	1.1 – 2.9

Notes and Restrictions

Pre-Harvest Interval (PHI): **7 days**

Minimum interval between applications: **14 days**

Maximum PROVADO allowed per crop season: **11.4 ounces/Acre** (0.50 lb A/A)

Applications

Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment.

^{1/} Use not permitted in California unless otherwise directed by supplemental labeling.

HEAD and STEM BRASSICA VEGETABLES ^{2/}

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, Turnip tops (leaves), and

LEAFY VEGETABLES ^{2/}

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)^{1/}, Watercress (upland)^{1/}

Pests Controlled	Rate ounces/Acre
Aphids Flea beetles Whiteflies	1.1
Notes and Restrictions Pre-Harvest Interval (PHI): 7 days Minimum interval between applications: 5 days Maximum PROVADO allowed per crop season: 5.5 ounces/Acre (0.24 lb AI/A) Applications Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment. ^{1/} Use not permitted in California unless otherwise directed by supplemental labeling. ^{2/} Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.	

LEGUME VEGETABLES ^{2/}

(except soybean, dry)

Edible Podded and Succulent Shelled Pea ^{1/} and Bean and Dried Shelled Pea ^{1/} and Bean ^{1/}

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 ^{1/}: (*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 ^{1/}: Broad bean (fava), Chickpea (garbanzo bean), Guar, Jackbean, Lablab bean (hyacinth bean), Lentil, Pigeon pea, Soybean (immature seed), Sword bean

Pests Controlled	Rate ounces/Acre
Aphids Leafhoppers Whiteflies	1.0
Notes and Restrictions Pre-Harvest Interval (PHI): 7 days Minimum interval between applications: 7 days Maximum PROVADO allowed per crop season: 3.0 ounces/Acre (0.13 lb AI/A) Applications Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment. ^{1/} Use not permitted in California unless otherwise directed by supplemental labeling. ^{2/} Not for use on crops grown for seed crops unless allowed by state-specific supplemental labeling.	

ROOT, TUBEROUS and CORM VEGETABLES ^{1/2}

Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Beet (garden)^{3/}, Burdock (edible)^{3/}, Canna (edible, Queensland arrowroot), Carrot^{3/}, Cassava (bitter & sweet)^{3/}, Celeriac^{3/}, Chayote (root), Chervil (turnip-rooted)^{3/}, Chicory^{3/}, Chufa, Dasheen (taro)^{3/}, Ginger, Ginseng, Horseradish, Leren, Parsley (turnip-rooted), Parsnip^{3/}, Radish^{3/}, Oriental radish (diakon)^{3/}, Rutabaga^{3/}, Salsify (black)^{3/}, Salsify (oyster plant), Salsify (Spanish), Skirret, Sweetpotato, Tanier (cocoyam)^{3/}, Tumeric, Turnip^{3/}, Yam bean (jicama, manioc pea), Yam (true)^{3/}.

(For recommended applications on potato see Field Crops section)

Pests Controlled	Rate ounces/Acre
Aphids Flea beetles Leafhoppers Whiteflies	1.0
<p>NOTES AND RESTRICTIONS Pre-Harvest Interval (PHI): 7 days. Minimum interval between applications: 5 days Maximum PROVADO allowed per crop season: 1.0 ounces/Acre (on Radish); 3.0 ounces/Acre (on other crops). Maximum PROVADO applications per crop season: 1 (on Radish); 3 (on other crops). APPLICATIONS Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment. ^{1/} Use not permitted in California unless otherwise directed by supplemental labeling. ^{2/} Not for use on crops grown for seed unless allowed by state-specific supplemental labeling. ^{3/} Tops or greens from these crops may be utilized for food or feed.</p>	

STRAWBERRY ^{1/}

Pests Controlled	Rate ounces/Acre
Aphids Spittlebugs Whiteflies	1.1
<p>Notes and Restrictions Pre-Harvest Interval (PHI): 7 days Minimum interval between applications: 5 days Maximum PROVADO allowed per crop season: 3.3 ounces/Acre (0.14 lb A/A) Do not apply during bloom or within 10 days prior to bloom or when bees are actively foraging. Applications Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground, aerial or chemigation application equipment. ^{1/} Use not permitted in California unless otherwise directed by supplemental labeling.</p>	

TREE, BUSH and VINE CROPS**Recommended Applications – PROVADO® 70 WG Insecticide**

Apply specified rate per acre as foliar spray as pest populations begin to build. Thorough, uniform coverage is necessary to achieve optimal control. A spray adjuvant may be used to improve coverage. PROVADO may not knockdown established and heavy insect populations. Two applications may be required to achieve control. Scout fields and retreat if needed. PROVADO may be tank mixed with other insecticides as recommended for knockdown of pests or for improved control of other pests.

BUSHBERRY ^{1/}

Currant, Elderberry, Gooseberry, Huckleberry, Juneberry, Lingonberry, Salal

Pests Controlled	Rate ounces/Acre
Aphids Leafhoppers	0.9 – 1.1
Japanese beetle (adults) Thrips	1.7 – 2.3
Blueberry maggot	2.3
Notes and Restrictions	
Pre-Harvest Interval (PHI): 3 days	
Minimum interval between applications: 7 days	
Maximum PROVADO allowed per season: 11.4 ounces/Acre (0.50 lb AI/A)	
Maximum number of PROVADO applications per crop season: 5	
Minimum application volume (water): 20.0 GPA – ground, 5.0 GPA – aerial.	
Applications	
Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment.	
^{1/} Use not permitted in California unless otherwise directed by supplemental labeling.	

CITRUS

(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* sp), and other cultivars and/or hybrids of these)

Pests Controlled	Rate ounces/100 gallons	Rate ounces/Acre
Aphids Black fly Leafhoppers / Sharpshooters Leafminers Mealy bugs Scales Whiteflies	1.0 – 1.4 (for dilute application)	2.8 – 5.7 (depending on tree size, target pest and infestation pressure)
Pests Suppressed		
Thrips (foliage feeding thrips only)	1.0 – 1.4	2.8 – 5.7
Notes and Restrictions		
Pre-Harvest Interval (PHI): 0 days		
Minimum interval between applications: 10 days		
Maximum PROVADO allowed per season: 11.4 ounces/Acre (0.50 lb AI/A)		
Applications		
Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment. Aerial application of PROVADO may result in slower activity and reduced control relative to results from ground application.		
Scales - time applications to the crawler stage. Treat each generation.		
Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. Where "concentrate" applications are appropriate, increase the spray solution concentration to apply an equivalent rate per acre to that applied in the "dilute" application. The 5.7 ounces/Acre rate is based on full size trees. This rate may be reduced proportionally for smaller trees.		

13/17

GRAPE

American bunch grape, Muscadine grape and Viniferous grape

Pests Controlled	Rate ounces/Acre
Leafhoppers / Sharpshooters Mealybugs	0.8 – 1.1
Grapeleaf skeletonizer ^{1/}	1.1
Notes and Restrictions Pre-Harvest Interval (PHI): 0 days Minimum interval between applications: 14 days Maximum PROVADO allowed per season: 2.2 ounces/Acre (0.10 lb AI/A) Applications Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment. ^{1/} Grapeleaf skeletonizer control can be expected from ground applications that provide thorough coverage of foliage. Aerial applications may provide suppression.	

HOP

Pests Controlled	Rate ounces/Acre
Aphids	2.3
Notes and Restrictions Pre-Harvest Interval (PHI): 28 days Minimum interval between applications: 21 days Maximum PROVADO allowed per crop season: 6.9 ounces/Acre (0.30 lb AI/A) Applications Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment.	

PECAN ^{1/}

Pests Controlled	Rate ounces/Acre
Aphids (use higher rate for Black pecan aphid) <i>Phylloxera</i> sp. Spittlebugs	1.0 – 2.0
Notes and Restrictions Do not apply after shuck-split. Minimum interval between applications: 10 days Maximum PROVADO allowed per crop season: 8.0 ounces/Acre (0.35 lb AI/A) Applications Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment. ^{1/} Use not permitted in California unless otherwise directed by supplemental labeling.	

14/17

POME FRUIT

Apple, Crabapple, Loquat, Mayhaw, Pear (including Oriental pear), Quince

Pests Controlled	Rate ounces/100 gallons	Rate ounces/Acre ^{1/}
Leafhoppers	0.3 – 0.6	1.2 – 2.4
Aphids (except woolly apple aphid)		
Leafminers	0.6	2.4
San Jose scale		
FOR PEAR, ONLY		
Mealybugs	1.4	5.7
Pear psylla		

Notes and Restrictions

Pre-Harvest Interval (PHI): **7 days**

Minimum interval between applications: **10 days**

Maximum PROVADO allowed per crop season: **11.4 ounces/Acre** (0.50 lb A/A)

Do not apply during bloom or within 10 days prior to bloom or when bees are actively foraging.

Applications

Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment. Aerial application of PROVADO may result in slower activity and reduced control relative to results from ground application.

Leafhoppers - apply low rate for low to moderate populations of white apple leafhoppers and high rate for high populations or for other leafhopper species. Apply PROVADO while most leafhoppers are in the nymphal stage.

Leafminer - for first generation leafminer control, make application as soon as pollination is complete and bees are removed from the orchard. Greatest leafminer control will result from the earliest possible application. For second and succeeding generations of leafminer, optimal control is obtained from applications made early in the adult flight against egg and early instar larvae. A second application may be required 10 days later if severe pressure continues or if generations are overlapping. A single application may result in suppression only. PROVADO will not control late instar larvae.

Mealybugs - apply maximum gallonage for tree size with ground application equipment. Insure good spray coverage of the trunk and scaffolding limbs or other resting sites of mealybugs.

Rosy apple aphid - apply prior to leafrolling caused by Rosy apple aphid.

San Jose scale - time applications to the crawler stage. Treat each generation.

^{1/} The amount of PROVADO required per acre will depend on tree size and volume of foliage present. The rate per acre is based on a standard of 400 gallons of dilute spray solution per acre for large trees. To calculate the rate needed on smaller trees, multiply the pest specific rate (e.g., for aphid control, 0.6 ounces/100 gallons) times the number of 100 gallons of spray solution required to thoroughly wet foliage just prior to the point of runoff, on one acre of the trees being treated. For concentrate sprays, apply the same amount of PROVADO per acre as would be applied in a dilute spray based on tree size and foliage volume.

15/17

STONE FRUIT ^{1/}

Apricot, Cherry (including sweet and tart), Nectarine, Peach (For other stone fruit crops, see below), Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh and dried)

Pests Controlled	Rate ounces/100 gallons	Rate ounces/Acre
Aphids Green June beetle Japanese beetle Leafhoppers / Sharpshooters Plant bugs Rose chafer San Jose scale	0.6	1.2 – 2.4
Cherry fruit fly (maggot of Eastern and Western)	0.6	2.4
Pests Suppressed		
Plum curculio Stink bugs	0.6	2.4

Notes and Restrictions for Apricot, Nectarine, Peach:
 Pre-Harvest Interval (PHI): **0 day**
 Minimum interval between applications: **7 days**
 Maximum PROVADO allowed per crop season: **6.9 ounces/Acre** (0.30 lbs AI/A)
 Minimum application volume (water): 50 GPA – ground application, 25 GPA – aerial application

Notes and Restrictions for Cherries, Plums, Plumcot, Prune:
 Pre-Harvest Interval (PHI): **7 days**
 Minimum interval between applications: **10 days**
 Maximum PROVADO allowed per crop season: **11.4 ounces/Acre** (0.50 lb AI/A)
 Minimum application volume (water): 50 GPA – ground application, 25 GPA – aerial application

Applications
 Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment. Aerial application of PROVADO may result in slower activity and reduced control relative to results from ground application.

^{1/} Use not permitted in California unless otherwise directed by supplemental labeling.

16/17

TROPICAL FRUIT ^{1/}

Acerola, Avocado, Canistel, Feijoa, Jaboticaba, Guava, Longan, Lychee, Mamey sapote, Mango, Papaya, Passionfruit, Persimmon, Pulasan, Rambutan, Sapodilla, Sapote (black), Spanish lime, Star apple, Starfruit, Wax jambu

Pests Controlled	Rate ounces/Acre
Aphids Leafhoppers / Sharpshooters Thrips Whiteflies	2.4
Pests Suppressed	
Scales	2.4
<p>Notes and Restrictions: Pre-Harvest Interval (PHI): 7 days Minimum interval between applications: 10 days Maximum PROVADO allowed per crop season: 11.4 ounces/Acre (0.50 lb A/A) Maximum number PROVADO applications per crop season: 5</p> <p>Applications: Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment. Aerial application of PROVADO may result in slower activity and reduced control relative to results from ground application.</p> <p>^{1/} Use not permitted in California unless otherwise directed by supplemental labeling.</p>	

OTHER CROPS

Recommended Applications – PROVADO® 70 WG Insecticide

Apply specified rate per acre as foliar spray as pest populations begin to build. Thorough, uniform coverage is necessary to achieve optimal control. A spray adjuvant may be used to improve coverage. PROVADO may not knockdown established and heavy insect populations. Two applications may be required to achieve control. Scout fields and retreat if needed. PROVADO may be tank mixed with other insecticides as recommended for knockdown of pests or for improved control of other pests.

POPLAR / COTTONWOOD ^{1/}

(includes members of the genus *Populus* grown for pulp or timber)

Pests Controlled	Rate ounces/Acre
Aphids Leaf beetles	1.2 – 2.4
<p>Notes and Restrictions Pre-Harvest Interval (PHI): 7 days Minimum interval between applications: 10 days Maximum PROVADO allowed per crop season: 11.4 ounces/Acre (0.50 lb A/A)</p> <p>Applications Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment. Aerial application of PROVADO may result in slower activity and reduced control relative to results from ground application. For early-season pests, make first application as soon as pollination is complete and bees (if present) are removed from the treatment area.</p> <p>^{1/} Use not permitted in California unless otherwise directed by supplemental labeling.</p>	

17/17

CHRISTMAS TREE

Pests Controlled	Rate ounces/Acre
Aphids Adelgids Sawflies	1.2 – 2.4
<p>Notes and Restrictions</p> <p>Pre-Harvest Interval (PHI): 7 days</p> <p>Minimum interval between applications: 10 days</p> <p>Maximum PROVADO allowed per crop season: 11.4 ounces/Acre (0.50 lb AI/A)</p> <p>Applications</p> <p>Apply specified dosage of PROVADO as a broadcast or directed spray to infested area insuring thorough coverage. PROVADO may be applied through properly calibrated ground or aerial application equipment. Aerial application of PROVADO may result in slower activity and reduced control relative to results from ground application.</p> <p>Gall-forming adelgids - time applications to coincide with full bud-swell or first bud-break of earliest bud-breaking trees. Once galls form spraying will be ineffective.</p>	

IMPORTANT: READ BEFORE USE

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