



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OCT 19 2006

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Sherry Movassaghi, PhD Bayer CropScience 2 T.W. Alexander Drive Research Triangle Park, NC 27709

Subject:

Minor Label Changes, response to Agency Letter of July 12, 2006

EPA Registration No. 264-784 Renounce® 20 WP Insecticide

Your submission dated July 19, 2006

Dear Dr. Movassaghi:

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comment listed below. Two (2) copies of the finished labeling must be submitted prior to releasing the product for shipment. A stamped copy of the label is enclosed for your records.

- Since this product's label does not have use on grasses, under Direction for Use/Alfalfa revise the statements beginning with "Except for the states of CA, ID, OR, and WA..." to read: "Do not apply to mixed stands with intentionally-grown forage grasses."
- Delete grasses from the table on page 6.

If you have any questions regarding this action, please contact Olga Odiott at 703-308-9369.

Sincerely,

Product Manager 13
Insecticide Branch

Registration Division (7505P)

Enclosure

## RESTRICTED USE PESTICIDE

Due to Toxicity to Fish and Aquatic Organisms

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

**GROUP** 

3

**INSECTICIDE** 

# RENOUNCE® 20WP Insecticide

For control of certain insects on listed field crops, vegetables, and tree and vine crops.

#### **ACTIVE INGREDIENT:**

100%

EPA Reg. No. 264-784

EPA Est. No.

## STOP - Read the label before use KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

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

## **FIRST AID**

IF IN EYES:	<ul> <li>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.</li> </ul>
	Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> </ul>
	<ul> <li>Do not induce vomiting unless told to do so by a poison control center or docto.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
IF ON SKIN OR CLOTHING:	<ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul> Under the Pecal Insection Pungicide, and Podenticide as amended, for the pastic
IF INHALED:	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>

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.

**Note To Physician: ANTIDOTE** - No specific antidote is available. Treat symptomatically. Published data indicate Vitamin E acetate can prevent and/or mitigate symptoms of paresthesia (skin irritation) caused by synthetic pyrethroids. Vomiting may cause aspiration pneumonia. In case of poisoning, it is requested that you also notify Bayer CropScience.



## PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if swallowed, absorbed through the skin or inhaled. Causes moderate eye irritation. Avoid breathing dust. Avoid contact with skin, eyes or clothing.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE):

#### APPLICATORS AND OTHER HANDLERS MUST WEAR:

- · Long-sleeved shirt and long pants
- Chemical resistant gloves (such as nitrile, butyl, neoprene, and/or barrier laminate). If you want more options, follow the
  instructions for category A on an EPA chemical-resistance category selection chart.
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining 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.

## **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**

This pesticide is extremely toxic to fish and aquatic invertebrates. For terrestrial uses: Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

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. Additional information may be obtained by consulting your Cooperative Extension Service.

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING 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 REDUCTION MANAGEMENT

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

#### **Buffer Zone Requirements:**

**Ground, Foliar Applications:** Do not apply by ground within 25 feet of lakes; reservoirs; rivers; permanent streams, marshes or natural ponds; estuaries and commercial fish farm ponds.

**Aerial Applications:** Do not apply by air within 150 feet of lakes; reservoirs; rivers; permanent streams, marshes of hatural ponds; estuaries and commercial fish farm ponds. The spray boom should be mounted on the aircraft so as to minimize drift-caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of the wingspan or rotor diameter. Do not apply as Ultra-Low Volume (ULV).

**Importance of Droplet Size:** An important factor influencing drift is droplet size. Small droplets (<150 to 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, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure. Spray should be released at the lowest possible height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.

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. Avoiding applications when wind direction is toward the aquatic area can reduce risk of exposure to sensitive aquatic areas.

Restrictions During Temperature Inversions: Do not make aerial or 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, the movement of smoke from a ground source can also identify inversions. 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.

Airblast (Air Assist) Specific Recommendations: Airblast sprayers carry droplets into the canopy of trees/vines via a radially, or laterally directed air stream. The following drift management practices should be followed:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy;
- Block off upward pointed nozzles when there is no overhanging canopy;
- Use enough air volume to penetrate the canopy and provide good coverage;
- · Do not allow the spray to go beyond the edge of the cultivated area (i.e., turn off sprayer when turning at end rows);
- · For applications to the outside rows, only spray inward, toward the orchard/grove.

#### **RUNOFF MANAGEMENT**

Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip. When used on erodible soils, best management practices for minimizing runoff should be employed. Consult your local Soil Conservation Service for recommendations in your use area. Do not apply if soil is saturated with water or under conditions that favor runoff. Do not apply in the rain.

#### **INSECT RESISTANCE STATEMENT**

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or State agricultural authorities for details. If resistance to this product develops in your area, this product alone may not continue to provide adequate control of resistant pests. If poor performance cannot be attributed to improper application or rate, extreme weather conditions, etc., a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local Bayer CropScience representative, agricultural advisor or Cooperative Extension Service agent for the best alternative method of control in your area and insect resistance management strategies in your area.

## **DIRECTIONS FOR USE**

#### **Restricted Use Pesticide**

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

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

## 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 (REI). 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 REI of 12 hours.

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

- Coveralls
- Chemical resistant gloves (such as nitrile, butyl, neoprene, and/or barrier laminate)
- 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 away from open flame and extreme heat. Store 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 case and poly-bag container in a manner as to prevent spillage. Do not attempt to open PVA packets. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of as directed for pesticides above. 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 No. 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 dispose of in a sanitary landfill or, incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

RENOUNCE® 20WP may be used for control of a broad spectrum of insect pests by contact and ingestion. Because of this contact activity, good spray coverage of the crop is needed for the highest level of control.

#### **PACKAGE HANDLING**

RENOUNCE is packaged in 4.0 ounce Poly-Vinyl Acetate (PVA) packets. PVA packets are designed to dissolve in water and allow the contents to mix. These PVA packets represent a closed-handling system and must not be opened prior to adding to water in spray tank. Do not allow packets to become wet prior to adding to the spray tank. Do not handle with wet hands. Reseal outer bag to protect remaining packets from moisture.

**MIXING:** The enclosed packets containing RENOUNCE are water-soluble. To prepare the spray mixture, drop the required number of unopened packets into the spray tank while filling with water to the desired level. Operate the agitator while mixing. Depending on the water temperature and the degree of agitation, the packets should be completely dissolved within approximately 5 minutes from the time they were added to the water.

#### COMPATIBILITY / ORDER-OF-MIXING

RENOUNCE is physically and biologically compatible with many registered pesticides and fertilizers and micronutrients. Do not use PVA packets in a tank-mix with products that contain boron or release free chlorine. The resultant reaction of PVA and boron or free chlorine is a plastic that is not soluble in water or solvents. When considering mixing RENOUNCE with other pesticides, or with liquid fertilizer, first contact your supplier. For further information, contact your local Bayer CropScience representative. If your supplier and Bayer CropScience representative have no experience with the combination you are considering, you should conduct a test to determine physical compatibility. To determine physical compatibility, pour the recommended proportions of each chemical with the same proportion of water as will be present in the chemical supply tank into a suitable container, mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be re-mixed readily, the mixture is considered physically compatible.

The proper mixing procedure for RENOUNCE alone or in tank-mix combinations with other pesticides is:

- 1) Fill the spray tank 1/4 to 1/3 full with clean water:
- 2) While recirculating and with the agitator running, add the required number of unopened RENOUNCE packets;
- 3) Allow enough time for thorough mixing. Depending on water temperature the packets should completely dissolve in 5 to 10 minutes;
- 4) Continue to fill spray tank with water until 1/2 full;
- 5) If applicable, add remaining tank mix components in the following order: wettable powders (WP) or wettable granules (WG), flowables (FL or SC), and emulsifiable concentrates (EC). Ensure good agitation as each component is added. Do not add a tank mix component until the previous component is thoroughly mixed;
- 6) Fill spray tank to desired level and maintain constant agitation to ensure uniformity of spray mixture.

## APPLICATION RECOMMENDATIONS

## Not for Use in Greenhouses

Unless specified otherwise in the crop-specific recommended application section, RENOUNCE may be applied by the following methods:

#### **Foliar Application**

Foliar applications may be made using properly calibrated ground sprayers, fixed- or rotary-winged aircraft or through properly designed, sprinkler-type, chemigation equipment. See Chemigation Application directions below. Thorough and uniform coverage of plants, with direct contact of the spray mixture to the target pests, is required for satisfactory control.

Avoid application procedures where thorough coverage of plant is not possible. Applications made with less than thorough coverage may result in slower activity and/or less overall control from a single application than an application made with higher water volumes. See general, Spray Drift Reduction Management, section below for application guidelines on all application methods.

**Ground applications** should be made in a minimum of **10 gallons/A** unless specified otherwise in crop-specific recommended application section.

**Aerial applications** should be made in a minimum of **2 gallons/A** unless specified otherwise in crop-specific recommended application section, however 5 gallons/A are recommended. See crop specific gallonage requirements. Do not apply as Ultra-Low Volume (ULV). Aerial applications made to dense canopies may not provide sufficient coverage of lower leaves or interior plant portions to provide pest control. Higher labeled rates of RENOUNCE may be necessary for aerial applications.

#### **Chemigation Application**

Applications should be made as concentrated as possible. For best results, apply at 100% input/travel speed for center pivots, or 0.10 inch (2,716 gallons) up to 0.15 inch (4,073 gallons) of water/A for other systems. Higher labeled rates of RENOUNCE may be necessary for chemigation applications.

**Types of Irrigation Systems:** RENOUNCE may be applied through sprinkler type irrigation systems. These types include; center pivot, lateral move, or solid set irrigation systems. Do not apply RENOUNCE through any other type of irrigation system.

**Injection for Chemigation:** Inject the specified dosage of RENOUNCE into the irrigation main, water stream: (1) after the filtration system; (2) through a constant flow, metering device; (3) into the center of the main line flow via a pitot tube or equivalent; (4) at a point ahead of at least one, right-angle turn in main stream flow such that thorough mixing with the irrigation water is ensured.

**Uniform Water Distribution and System Calibration:** The irrigation system must provide uniform distribution of RENOUNCE treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in or on the crop can result from non-uniform distribution. The system must be calibrated to uniformly distribute the rates specified for chemigation application to specific crops. If you have questions about calibration, contact your local Bayer CropScience representative, Cooperative Extension Service agent, 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.

Required Injection and Sprinkler 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 back-flow. 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 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/engine stops, or in cases where there is no water pump, when water pressure decreases to the point where pesticide distribution is adversely affected. Injection systems must use a metering pump or equivalent, such as a positive displacement injection pump (e.g., diaphragm pump, venturi injection) 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.

Chemical Supply Tank Dilution and Agitation: For injection of RENOUNCE use a chemical supply tank for pre-mixing RENOUNCE with water before injecting mixture into the irrigation line. Dilution ratio should be at least 0.5 gal. water to 1 lbs RENOUNCE. It is necessary to provide constant mechanical or hydraulic agitation to maintain RENOUNCE in suspension in the chemical supply tank during the entire period of application. Determine the required amounts of RENOUNCE and water to mix in the tank. The amount of RENOUNCE needed equals the number of ounces of RENOUNCE to be applied per acre multiplied by the number of acres to be chemigated. The amount of suspension/mixture needed equals the gallons of suspension delivered per hour by the injection pump, multiplied by the number of hours chemigation will take place.

Cleaning the Chemical Injection System: In order to apply pesticides accurately, the chemical injection system must be kept clean; free from chemical or fertilizer residues and sediments. Refer to your owner's manual or ask your equipment supplier for the cleaning procedure for your injection system.

**Flushing the Irrigation System:** At the end of the application period, allow time to flush the pesticide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

Center-Pivot and Automatic-Move Linear Systems: Inject the specified dosage per acre continuously for one complete revolution (center pivot) or move of the system. The system should be run at maximum speed. It is recommended that nozzles in the immediate



area of control panels, chemical supply tanks, pumps and system safety devices are plugged to prevent chemical contamination of these areas. The use of END GUNS is NOT recommended. End guns that provide uneven distribution of treated water can result in less effectiveness or illegal pesticide residues in or on the crop.

Solid Set and Manually Controlled Linear Systems: Injection should be during the last 30 to 60 minutes of a regular irrigation period or as a separate 30 to 60 minute application not associated with a regular irrigation.

#### **CROP ROTATION STATEMENT**

Treated areas may be replanted with any crop as soon as practical after last application.

## MAXIMUM USAGE WHEN APPLYING BOTH CYFLUTHRIN AND BETA-CYFLUTHRIN PRODUCTS TO THE SAME CROP WITHIN THE SAME SEASON:

Do not apply more than the maximum seasonal total for each product when used alone, and do not apply more than the combined maximum seasonal total for both products as outlined in the table below.

Сгор	Maximum Seasonal Total for Either Product Used Alone (pounds active Ingredient/acre)		Maximum Seasonal Total When Applying Both Products to the Same Crop (pounds active Ingredient/acre)	
	beta-cyfluthrin*	cyfluthrin**	beta-cyfluthrin* Plus cyfluthrin**	
Alfalfa	0.1	0.2	0.2	
Grasses	0.06	0.12	0.12	
Brassica (Cole) Leafy Vegetables, CG 5	0.1	0.2	0.2	
Cucurbits, CG 9	0.0875	0.175	0.175	
Fruiting vegetables, CG 8	0.1315	0.263	0.263	
Leafy vegetables, CG 4	0.1	0.2	0.2	
Dried Shelled Legume Vegetables, CSG 6C	0.05	0.1	0.1	
Pea, Southern	0.0825	0.165	0.165	
Potato, and other tuberous and corm vegetables, CSG 1C	0.1315	0.263	0.263	
Root vegetables (except sugarbeet), CSG 1B	0.11	0.22	0.22	
Sweet corn	0.22	0.44	0.44	
Citrus, CG 10	0.05	0.1	0.1	
Grape	0.1	0.2	0.2	
Нор	0.125	0.25	0.25	
Pome fruit, CG 11	0.022	0.044	0.044	
Stone fruit, CG 12	0.044	0.088	0.088	
Tree nut crops, CG 14	0.022	0.044	0.044	

<sup>\*</sup>BAYTHROID XL

## **FIELD CROPS**

#### RECOMMENDED APPLICATIONS - RENOUNCE® 20WP Insecticide

For all crops, apply specific dosage of RENOUNCE at early threshold for target pest, as population begins to develop. Degree of control or suppression of additional labeled pests will be determined, in part by the stage of pest development at application and infestation level of those pests.

Application timing should be based on careful scouting and local economic thresholds. RENOUNCE may be applied before, during, or after planting Use the higher rates for moderate to heavy insect pressure. Lower rates are generally adequate for low to moderate insect pressure but require careful scouting and may require more frequent application.

RENOUNCE is a wettable powder formulation and is active by contact and ingestion. Thorough coverage is necessary for optimum performance.

<sup>\*\*</sup>Any cyfluthrin product approved for crop use.

PESTS CONTROLLED	Rate ounces/Acre	Rate lb Al/Acre
Alfalfa looper		
Army cutworm		
Cutworms	10.00	0.040 0.005
Green cloverworm	1.0 – 2.0	0.013 - 0.025
Meadow spittlebug		
Potato leafhopper		
Alfalfa caterpillar		
Alfalfa plant bug		
Alfalfa webworm		
Alfalfa weevil		
Armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)		
Aster leafhopper		
Beet armyworm (1st and 2nd instar)		
Corn earworm		
Corn rootworms (adult)		
Cucumber beetles (adult)		
Egyptian alfalfa weevil		
Fall armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)	2.0 - 3.5	0.025 - 0.044
Grape colaspis (adult)		
Japanese beetle (adult)		
June beetle (adult)		
Loopers		
Lygus bug		
Mexican bean beette		
Stink bugs		
Tarnished plant bug		
Threecomered alfalfa hopper		
Velvetbean caterpillar		
Yellowstriped armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)		
Blotch leafminer		
Grasshoppers	2.5 - 3.5	0.031 - 0.044
Western yellowstriped armyworm (1st and 2nd instar)		
PESTS SUPPRESSED		
Blue pea aphid		
Cowpea aphid	•	2.24
Pea aphid	3.5	0.044
Whitefly (adult)		

#### **Notes and Restrictions**

Pre-Harvest Interval (PHI) / Pre-Grazing Interval: 7 days.

Maximum RENOUNCE allowed per cutting: 4.0 ounces/A (0.05 lb Al/Acre).

Maximum RENOUNCE allowed per crop season: 16.0 ounces/A (0.2 lb Al/Acre).

Minimum ULV application volume (once refined cotton seed/vegetable oil): 1.0 qt/A – aerial application.

Except for the states of CA, ID, OR, and WA, do not apply to mixed stands with intentionally-grown forage grasses. When applying to mixed stands of alfalfa and intentionally-grown forage grasses in CA, ID, OR, and WA only, carefully observe the restrictions and use directions associated with both crops.

Due to potential injury to bees, do not apply to alfalfa grown for seed.

#### **VEGETABLE CROPS**

#### RECOMMENDED APPLICATIONS - RENOUNCE ® 20WP Insecticide

For all crops, apply specific dosage of RENOUNCE at early threshold for target pest as population begins to develop. Degree of control or suppression of additional labeled pests will be determined, in part, by the stage of pest development at application and infestation level of those pests.

Application timing should be based on careful scouting and local economic thresholds. RENOUNCE may be applied before, during, or after planting. Use the higher rates for moderate to heavy insect pressure. Lower rates are adequate for low to moderate insect pressure but require careful scouting and may require more frequent application.

RENOUNCE is a wettable powder formulation and is active by contact and ingestion. Thorough coverage is necessary for optimum performance.

### **BRASSICA (COLE) LEAFY VEGETABLES**

Includes all members of Crop Group 5 such as, but not limited to:

Broccoli, Broccoli raab (rapini), Brussels sprouts, Cabbage, Cauliflower, Cavalo broccoli, Chinese (gal lon) broccoli, Chinese (bok choy and napa) cabbage, Chinese mustard (gai choy) cabbage, Collards, Kale, Kohirabi, Mizuna, Mustard greens, Mustard spinach, Rape greens.

PESTS CONTROLLED	Rate ounces/Acre	Rate Ib Al/Acre
Cutworms		
Potato leafhopper	1.0 – 2.0	0.013 - 0.025
Thrips		
Alfalfa looper		_
Cabbage looper		
Cabbage webworm	2.0 – 3.0	0.025 - 0.038
Imported cabbageworm	-	
Southern cabbageworm		
Armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)	1	
Beet armyworm (1st and 2nd instar)		
Cabbage flea beetle		
Com earworm		
Diamondback moth (larvae)*		
Fall armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)		
Grasshoppers		
Japanese beetle (adult)	3.0 – 4.0	0.038 0.05
Lygus bug		
Meadow spittlebug		
Southern armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)		
Stink bugs		
Tarnished plant bug*		
Vegetable weevil (adult)	1	A Parties
Yellowstriped armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)		
PEST SUPPRESSED		
Whitefly (adult)*	4.0	0.05
Notes and Postrictions	· · · · · · · · · · · · · · · · · · ·	<u> </u>

#### **Notes and Restrictions**

Pre-Harvest Interval (PHI): 0 day.

Maximum RENOUNCE allowed per 7-day interval: 4.0 ounces/A (0.05 lb Al/Acre).

Maximum RENOUNCE allowed per crop season: 16.0 ounces/A (0.2 lb Al/Acre).

For aerial applications, apply in a minimum of 5 GPA.

Due to potential injury to bees, do not apply to crops grown for seed.

\*See INSECT RESISTANCE statement elsewhere on this label.



**CUCURBITS** (except crops grown for seed)

Includes all members of Crop Group 9 such as, but not limited to:

Balsam apple, Balsam pear, Bitter melon, Chayote, Chinese cucumber, Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Edible gourd (Includes: hyotan, cucuzza, henchmia and Chinese okra), Muskmelon (Includes: cantaloupe, true cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin, Summer squash (includes: crookneck squash, scallop squash, straightneck squash, vegetable marrow, and zucchini) Watermelon, Winter squash (includes: butternut squash,

calabaza, hubbard squash, acorn squash and spaghetti squash)

PESTS CONTROLLED	Rate ounces/Acre	Rate lb Al/Acre
Cutworms Potato leafhopper	1.0 – 2.0	0.013 - 0.025
Armyworm (1st and 2nd instar) Cabbage looper Corn earworm Grasshoppers Melonworm Pickleworm Rindworm Stink bugs	2.0 – 3.0	0.025 – 0.038
Cucumber beetles Lygus bug Tarnished plant bug * Tobacco budworm  PEST SUPPRESSED	3.0 – 3.5	0.038 - 0.044
Whitefly (adult)	3.5	0.044

#### **Notes and Restrictions**

Pre-Harvest Interval (PHI): 0 day.

Maximum RENOUNCE allowed per 7-day interval: 3.5 ounces/A (0.044 lb Al/Acre).

Maximum RENOUNCE allowed per crop season: 14 ounces/A (0.175 lb Al/Acre).

\* See INSECT RESISTANCE statement elsewhere on this label.



#### **FRUITING VEGETABLES**

Includes all members of Crop Group 8 such as, but not limited to:

Eggplant, Groundcherry, Pepino, Pepper (includes: bell pepper, chili pepper, cooking pepper, plmento, sweet pepper), Tomatillo, and Tomato

PESTS CONTROLLED	Rate ounces/Acre	Rate lb Al/Acre
Celery leaftier		
Colorado potato beetie *		
European corn borer		
Garden webworm		
Potato aphid	2.0 - 3.5	0.025 0.044
Potato leafhopper		
Stink bugs		
Tomato fruitworm (corn earworm)		
Tomato hornworm		
Beet armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)		
Cabbage looper		
Southern armyworm (1st and 2nd instar)		
Tarnished plant bug *	2.6 – 3.5	0.033 - 0.044
Thrips (except Thrips palmi)	2.0 – 3.3	0.033 = 0.044
Tomato pinworm		
Variegated cutworm		
Western yellowstriped armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)		
Flea beetles	3.5	0.044
Garden symphylan		0.044
PESTS SUPPRESSED		
Leafminers		
Pepper weevil	3.5	0.044
Whitefly (adult)		

#### **Notes and Restrictions**

Pre-Harvest Interval (PHI) for tomato: 0 day. PHI for all other fruiting vegetables included in this section: 7 days.

Maximum RENOUNCE allowed per 7-day interval: 3.5 ounces/A (0.044 lb Al/Acre).

Maximum RENOUNCE allowed per crop season: 21 ounces/A (0.263 lb Al/Acre).

For reduction of damage caused by garden symphylan, apply specified dosage to the top of the planting beds prior to transplanting. Spray should cover the entire top of the beds. Thoroughly incorporate to a depth of approximately 4 to 6 inches. A maximum of 1 pre-transplant application is allowed per crop season.

\* See INSECT RESISTANCE statement elsewhere on this label.



#### LEAFY VEGETABLES

includes all members of Crop Group 4 such as, but not limited to:

Amaranth (Chinese spinach), Arugula (rouquette), Cardoon, Celery, Chinese celery, Celtuce, Chervil, Chrysanthemum (edible-leaved and garland), Com salad, Cress (garden and upland), Dandelion, Dock (sorrel), Endive (escarole), Florence fennel, Lettuce (head and leaf), New Zealand spinach, Orach, Parsley, Purslane (garden and winter), Radicchlo (red chicory), Rhubarb, Spinach,

Swiss chard, Vine spinach Rate Rate **PESTS CONTROLLED** ounces/Acre Ib Al/Acre Cutworms 1.0 - 2.00.013 - 0.025Potato leafhopper Thrips Alfalfa looper Cabbage looper 0.025 - 0.038Green cloverworm 2.0 - 3.0Imported cabbageworm Saltmarsh caterpillar Beet armyworm (1st and 2nd instar) Corn earworm Diamondback moth (larvae)\* European corn borer Fall armyworm (1st and 2nd instar) Flea beetles Grasshoppers Japanese beetle (adult) 3.0 - 4.00.038 - 0.05Leafhoppers Lygus bug Meadow spittlebug Southern armyworm (1st and 2nd instar) Stink bugs Tarnished plant bug\* Vegetable weevil (adult) Yellowstriped armyworm (1st and 2nd instar) **PEST SUPPRESSED** 

4.0

#### **Notes and Restrictions**

Whitefly (adult)

Pre-Harvest Interval (PHI): 0 day.

Maximum RENOUNCE allowed per 7-day interval: 4 ounces/A (0.05 lb Al/Acre).

Maximum RENOUNCE allowed per crop season: 16.0 ounces/A (0.2 lb Al/Acre).

For aerial applications, apply in a minimum of 5 GPA.

Due to potential injury to bees, do not apply to crops grown for seed.

\*See INSECT RESISTANCE statement elsewhere on this label.

0.05



#### **DRIED SHELLED LEGUME VEGETABLES**

Includes all members of Crop Subgroup 6C such as, but not limited to:

Adzuki bean, Blackeyed pea, Broad bean, Catjang, Chickpea, Cowpea, Crowder pea, Dwarf pea, Edible-pod pea, English pea, Field bean, Field pea, Garbonzo bean, Garden pea, Green pea, Guar, Kldney bean, Lablab bean, Lentil, Lima bean, Lupin (grain, sweet, white and white sweet), Moth bean, Mung bean, Navy bean, Pigeon pea, Pinto bean, Rice bean, Snow pea, Sugar snap pea, Tepary bean, Urd bean

(Southern pea included in separate section.)

PESTS CONTROLLED	Rate ounces/Acre	Rate lb Al/Acre
Cutworms	1.0 – 2.0	0.013 - 0.025
Potato leafhopper	1.0 = 2.0	0.013 = 0.023
Cowpea curculio*		
Stink bugs	2.0 – 3.0	0.025 - 0.038
Tarnished plant bug*		
Bean leaf beetle		
Bean leaf webber		
Beet armyworm (1st and 2nd instar)		
Blister beetle		
Cabbage looper		
Corn earworm		
Cucumber beetle		
European corn borer		
Fall armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)		
Grasshoppers		
Green cloverworm		
Japanese beetle (adult)		
Lygus bug	3.0 – 4.0	0.038 - 0.05
Mexican bean beetle		
Pea leaf weevil		
Pea weevil		
Saltmarsh caterpillar		
Silverspotted skipper		
Soybean looper*		
Threecornered alfalfa hopper		
Tobacco budworm*		
Velvetbean caterpillar		•
Webworm		
Woolybear caterpillar		
Yellowstriped armyworm (1st and 2nd instar)		
PEST SUPPRESSED		
Pea aphid	4.0	0.05

#### **Notes and Restrictions**

Pre-Harvest Interval (PHI): 7 days (minimum time between final application and threshing for seed).

Maximum RENOUNCE allowed per 14-day interval: 4.0 ounces/A (0.05 lb Al/Acre).

Maximum RENOUNCE allowed per crop season: 8.0 ounces/A (0.1 lb Al/Acre).

For aerial applications, apply in a minimum of 5 GPA.

Do not feed treated vines or hay to livestock.

\*See INSECT RESISTANCE statement elsewhere on this label.

PESTS CONTROLLED	Rate ounces/Acre	Rate lb Al/Acre
Cutworms Potato leafhopper	1.0 – 2.0	0.013 - 0.025
Beet armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)  Corn earworm  Cowpea curculio  Fall armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)  Grasshoppers  Lygus bug  Southern armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)  Stink bugs  Tarnished plant bug*  Thrips  Yellowstriped armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)	2.0 – 2.6	0.025 - 0.033

#### **Notes and Restrictions**

Pre-Harvest Interval (PHI): 3 days.

Maximum RENOUNCE allowed per 5-day interval: 2.6 ounces/A (0.033 lb Al/Acre).

Maximum RENOUNCE allowed per crop season: 13.0 ounces/A (0.163 lb Al/Acre).

Due to potential injury to bees, do not apply to Southern peas grown for seed.

Do not feed treated vines or hay to livestock.

Do not apply to cowpeas or Southern pea varieties grown for livestock feed.

\*See INSECT RESISTANCE statement elsewhere on this label.

#### POTATO AND OTHER TUBEROUS AND CORM VEGETABLES

Includes all members of Crop Subgroup 1C such as, but not limited to:

Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Edible canna, Cassava (bitter and sweet), Chayote root, Chufa, Dasheen (taro), Ginger, Leren, Potato, Sweet potato, Tanier, True yam. Turneric, Yam bean

PESTS CONTROLLED	Rate ounces/Acre	Rate lb Al/Acre
Cutworms	10.00	0.043 0.035
Potato leafhopper	1.0 – 2.0	0.013 - 0.025
Cabbage looper		
Colorado potato beetle*		0.025 - 0.044
European corn borer	2.0 – 3.5	
Flea beetles		
Potato psyllid	2.0 – 3.5	0.023 = 0.044
Potato tuberworm		
Sweetpotato weevil (adults)		
Tarnished plant bug*		
PEST SUPPRESSED		
Aphids	3.5	0.044

#### Notes and Restrictions

Pre-Harvest Interval (PHI): 0 day. If more than 7 ounces/Acre is applied, allow at least 14 days between the last application and grazing.

- Maximum RENOUNCE allowed per 5-day interval: 3.5 ounces/A (0.044 lb Al/Acre).
- Maximum RENOUNCE allowed per crop season: 21.0 ounces/A (0.263 lb Al/Acre).
- \*See INSECT RESISTANCE statement elsewhere on this label.



## **ROOT VEGETABLES** (except sugar beet)

Includes all members of Crop Subgroup 1B such as, but not limited to:

Garden beet, Edible burdock, Carrot, Celeriac, Turnip-rooted chervil, Chicory, Ginseng, Horseradish, Turnip-rooted parsley,

Parsnip, Radish, Oriental radish, Rutabaga, Salsify (black, Spanish, and oyster plant), Skirret, Turnip

PESTS CONTROLLED	Rate ounces/Acre	Rate lb Al/Acre
Aster leafhopper		
Cutworms	20.25	0.005 0.044
Flea Beetle	2.0 – 3.5	0.025 - 0.044
Potato leafhopper		
Carrot weevil	3.5	0.044

## **Notes and Restrictions**

Pre-Harvest Interval (PHI): 0 day.

Maximum RENOUNCE allowed per 7-day interval: 3.5 ounces/A (0.044 lb Al/Acre).

Maximum RENOUNCE allowed per crop season: 17.5 ounces/A (0.22 lb Al/Acre).

Do not harvest radish tops (leaves) for human consumption.

Due to potential injury to bees, do not apply to crops grown for seed.

PESTS CONTROLLED	Rate ounces/Acre	Rate Ib Al/Acre
Black cutworm	00.0007,0.0	10710707
Flea beetles		
Granulate cutworm	1.0 – 2.0	0.013 – 0.025
Sandhill cutworm		
Armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)		V
Bean leaf beetle		
Cereal leaf beetle		•
Chinch bug		
Click beetle (adult)		1
Corn earworm	<u> </u>	
Corn rootworms (adult)		
Corn silk fly		
European corn borer*	2.0 – 3.5	0.025 - 0.044
Grape colaspis (adult)		
Japanese beetle (adult)		
June beetle (adult)	2.0 – 3.5	0.025 = 0.044
Leafhoppers		
Masked chafer (adult)		
Southern armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)		
Southern corn leaf beetle		
Southwestern corn borer*		
Stalk borer*		
Stink bugs		
Webworm		
Western bean cutworm		
Yellowstriped armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)		
Grasshoppers	2.5 3.5	0.031 - 0.044
Fall armyworm (1 <sup>st</sup> and 2 <sup>nd</sup> instar)	3.5	0.044

## **Notes and Restrictions**

Pre-Harvest Interval (PHI): 0 day.

Maximum RENOUNCE allowed per 2-day interval: 3.5 ounces/A (0.044 lb Al/Acre).

Maximum RENOUNCE allowed per crop season: 35.0 ounces/A (0.44 lb Al/Acre).

\*Application must be made prior to larva boring into plant.

#### TREE and VINE CROPS

#### RECOMMENDED APPLICATIONS - RENOUNCE @ 20WP Insecticide

For all crops, apply specific dosage of RENOUNCE at early threshold for target pest, as population begins to develop. Degree of control or suppression of additional labeled pests will be determined, in part by the stage of pest development at application and infestation level of those pests.

Recommended application rates within this label are based on full-size mature trees and vines. Application timing should be based on careful scouting and local economic thresholds. Use the higher rates for moderate to heavy insect pressure. Lower rates are generally adequate for smaller trees/vines or low to moderate insect pressure but require careful scouting and may require more frequent application.

RENOUNCE is a Wettable Powder formulation and is active by contact and ingestion. Thorough coverage of foliage and fruit is necessary for optimum performance.\_\_\_\_\_

#### CITRUS (California and Arizona, Only)

includes all members of Crop Group 10 such as, but not limited to:

Calamondin, Citrus citron, Citrus hybrids (includes chironja, tangelo, and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (sweet and sour), Pummelo, Satsuma mandarin, Tangelo, White sapote, and other cultivars and/or hybrids of these.

PESTS CONTROLLED	Rate ounces / Acre	Rate Ib Al/Acre
Glassywinged sharpshooter	2.0 – 4.0	0.025 - 0.05
Foliar feeding cutworms		
Fuller rose beetle (larvae and adults on foliage)	3.0 – 4.0	0.038 - 0.05
Grasshoppers	3.0 – 4.0	0.036 - 0.05
Root-weevil complex (larvae and adult on foliage )		-1
Citrus thrips	9.0	0.4
Katydid	8.0	0.1

#### **Notes and Restrictions**

Pre-Harvest Interval (PHI): 0 day.

Maximum RENOUNCE allowed per 7-day interval: 8.0 ounces/A (0.1 lb Al/Acre).

Maximum RENOUNCE allowed per crop season: 8.0 ounces/A (0.1 lb Al/Acre).

Minimum application volume (water): 25 GPA - ground, 25 GPA - aerial application.

Raisin, Table, Wine grape, and Muscadine grape			
PESTS CONTROLLED	Rate ounces/Acre	Rate Ib Al/Acre	
Glassywinged sharpshooter			
Grape leaf skeletonizer	2.0 – 4.0	0.025 - 0.05	
Western grape leaf skeletonizer			
Climbing cutworm			
Grape berry moth			
Grape bud beetle			
Grape cane gallmaker (adult)			
Grape flea beetle			
Grape leaffolder			
Grape leafhopper	3.0 – 4.0	0.038 - 0.05	
Grape leafroller			
Grape mealybug (crawlers)			
Omnivorous leafroller			
Orange tortrix			
Thrips			
Variegated leafhopper			

#### **Notes and Restrictions**

Pre-Harvest Interval (PHI): 3 days.

Maximum RENOUNCE allowed per 14-day interval: 4.0 ounces/A (0.05 lb Al/Acre).

Maximum RENOUNCE allowed per crop season: 16.0 ounces/A (0.2 lb Al/Acre).

Minimum application volume (water): 50 GPA - ground, 25 GPA - aerial application.

HOP		
PESTS CONTROLLED	Rate ounces/Acre	Rate lb Al/Acre
Hop aphid		
Hop flea beetle	4.0	0.05
Hop looper		
Hop plant bug		

#### **Notes and Restrictions**

Pre-Harvest Interval (PHI): 7 days.

Maximum RENOUNCE allowed per 14-day interval: 4.0 ounces/A (0.05 lb Al/Acre).

Maximum RENOUNCE allowed per crop season: 20.0 ounces/A (0.25 lb Al/Acre).

Minimum application volume (water): 25 GPA - ground, 25 GPA - aerial application.

POME FRUIT

Includes all members of Crop Group 11 such as, but not limited to: Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental pear, Quince

PESTS CONTROLLED	Rate ounces/Acre	Rate lb Al/Acre
Green fruitworm		
Potato leafhopper	1.8 – 2.5	0.023 - 0.031
White apple leafhopper		
Codling moth		
Oriental fruit moth	1	0.031 - 0.038
Spotted tentiform leafminer	2.5 – 3.0	
Stink bugs	2.5 – 3.0	
Tarnished plant bug		
Western tentiform leafminer		
Apple leafroller		
Apple maggot		
Ermine moth	1	
European apple sawfly		
Lesser appleworm		0.038 - 0.044
Obliquebanded leafroller		
Pandemis leafroller	3.0 – 3.5	
Pear sawfly (larvae = pear slug)	3.0 – 3.3	
Periodical cicada		
Plum curculio		
Redbanded leafroller		
San Jose scale (crawlers)		
Tufted apple bud moth		
Variegated leafroller		

#### **Notes and Restrictions**

Pre-Harvest Interval (PHI): 7 days.

Maximum RENOUNCE allowed per 14-day interval: 3.5 ounces/A (0.044 lb Al/Acre).

Maximum RENOUNCE allowed per crop season: 3.5 ounces/A (0.044 lb Al/Acre).

Minimum application volume (water): 100 GPA - ground application, 25 GPA - aerial application.

## STONE FRUIT

Includes all members of Crop Group 12 such as, but not limited to:

Apricot, Cherry (sweet and tart), Nectarine, Peach, Plum (includes Chickasaw, Damson, and Japanese), Plumcot, Prune (fresh and dried)

PESTS CONTROLLED	Rate ounces/Acre	Rate Ib Al/Acre
Green fruitworm		
Lesser peach tree borer	1.8 – 2.5	0.023 - 0.031
White apple leafhopper		
Codling moth		
Lygus bug		
Oriental fruit moth	2.5 3.0	0.031 - 0.038
Stink bugs		
Tarnished plant bug		
American plum borer		
Black cherry aphid		
Cherry fruit fly	<u> </u>	
Obliquebanded leafroller		
Omnivorous leafroller	3.0 – 3.5	0.038 - 0.044
Peach twig borer	3.0 – 3.5	0.038 – 0.044
Periodical cicada		
Plum curculio	ŀ	
Redbanded leafroller		
Western cherry fruit fly		

## **Notes and Restrictions**

Pre-Harvest Interval (PHI): 7 days.

Maximum RENOUNCE allowed per 14-day interval: 3.5 ounces/A (0.044 lb Al/Acre).

Maximum RENOUNCE allowed per crop season: 7.2 ounces/A (0.088 lb Al/Acre).

Minimum application volume (water): 50 GPA - ground application, 25 GPA - aerial application.



#### TREE NUT CROPS

includes all members of Crop Group 14 such as, but not limited to:

Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Hickory nut, Macadamia nut, Pecan, Pistachio,

Walnut (black and English)

PESTS CONTROLLED	Rate ounces/Acre	Rate Ib Al/Acre
Potato leafhopper White apple leafhopper	1.8 – 2.5	0.023 - 0.031
Ants (on foliage) Codling moth Common earwig Filbertworm		
Leaffooted bug Navel orangeworm Pecan nut casebearer Pecan weevil Stink bugs Tarnished plant bug Twolined spittlebug	2.5 – 3.0	0.031 – 0.038
Hickory shuckworm Obliquebanded leafroller Peach twig borer Walnut husk fly	3.0 – 3.5	0.038 – 0.044

#### **Notes and Restrictions**

Pre-Harvest Interval (PHI): 14 days.

Maximum RENOUNCE allowed per 14-day interval: 3.5 ounces/A (0.044 lb Al/Acre).

Maximum RENOUNCE allowed per crop season: 3.6 ounces/A (0.044 lb Al/Acre).

Minimum application volume (water): 100 GPA - ground application, 25 GPA - aerial application.

## **RATE CONVERSION CHART**

OUNCES OF PRODUCT PER ACRE	LB AI PER ACRE	ACRES PER 10 x 4.0 OUNCE PVA PACKETS	ACRES PER 20 LBS CASE
1.0	0.013	40	320
1.5	0.019	27	213
2.0	0.025	20	160
2.5	0.031	16	128
3.0	0.038	13	107
3.5	0.044	11	91
4.0	0.05	10	80
8.0	0.1	5	40

## IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

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NET CONTENTS: 10 x 4.0 ounce PVA Packets / Re-closable Bag - 8 Re-closable Bags / 20 lb Case

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PRODUCED FOR

Stryon Crept of poor

Bayer CropScience LP P.O. Box 12014, 2 T.W. Alexander Drive Research Triangle Park, North Carolina 27709 1-866-99BAYER (1-866-992-2937)

Renounce 20WP (MASTER) Approved 07/12/06