

264-784

11/15/2005

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

NOV 15 2005

Jamin Huang, PhD
Bayer CropScience
2 T.W. Alexander Drive
Research Triangle Park, NC 27709

Subject: Label Amendment to Add Crop Uses

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

Your submissions dated March/22/2002, September/19/ 2003, and
August/12/2004

Dear Dr. Huang:

The amendment referred to above, submitted in connection with registration under Section (3) (c) (7) (b) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comments and terms for conditional registration 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.

1. You will submit and/or cite all data required for registration/reregistration of your product under FIFRA Section 3 (c) (5) when the Agency requires all registrants of similar products to submit such data; and submit responses required for reregistration of your product under FIFRA Section 4.
2. You agree that the subject amendment is conditional under the same terms and conditions for data generation as stipulated in our November 15, 1993 letter for use of this product on cotton.
3. You agree that the current synthetic pyrethroid mitigation measures are interim in nature and may be reconsidered or modified after review and evaluation of the Spray Drift Task Force data.
4. You will submit production information (pounds or gallons produced) for this product for the fiscal year in which the added uses are conditionally registered, in accordance with FIFRA Section 29. The fiscal year begins October 1 and ends September 30. The production information will be submitted to the Agency no later than November 15 following the end of the preceding fiscal year.

This information should be submitted to:

U.S. Environmental Protection Agency
Office of Pesticide Programs (7504C)
Document Processing Desk
Ariel Rios Building
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

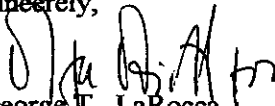
- 5. You agree to submit an Aerobic Aquatic Metabolism Study (Guideline 162-4) conducted in accordance with the 40 CFR Part 158. Please refer to the Environmental Risk Assessment Memorandum for the subject uses dated July 13, 2004 for details.
- 6. You will make the following label changes:
 - a. On page 15, under sweet corn, revise "*Maximum Renounce® 20WP allowed per day*" to read: "*Maximum Renounce® 20WP allowed per 2 day interval*". Field trial data only support 2-day retreatment intervals.
 - b. Under Disclaimer of Warranties revise the statement beginning with: "*Bayer CropScience disclaims any liability whatsoever...*" to read: "*To the fullest extent permitted by law Bayer CropScience disclaims ...*" or "*It is Bayer CropScience intention ...*" As currently written the statement negates and/or detracts from labeling requirements as set forth by the Agency in 40 CFR Part 156, and is, therefore, considered misbranding.

You should note that if you fail to satisfy any of the conditions imposed on this registration, e.g., you fail to submit the required data by the specified deadlines or the data submitted were not generated in accordance with applicable test guidelines, EPA may issue notice to cancel these uses under FIFRA 6(e).

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

9369.

Sincerely,



George J. LaRocca
Product Manager 13
Insecticide Branch
Registration Division (7505C)

Enclosure

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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:

Cyfluthrin, Cyano(4-fluoro-3-phenoxyphenyl)methyl-3-(2,2-dichloroethenyl)-2,2-dimethyl-cyclopropanecarboxylate. 20%

INERT INGREDIENTS: 80%
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 **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 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 SWALLOWED:	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
IF INHALED:	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

ACCEPTED with COMMENTS
In EPA Letter Dated NOV 15 2005
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 264-784

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.

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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:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

APPLICATORS AND OTHER HANDLERS MUST WEAR:

- Long-sleeved shirt and long pants
- Chemical resistant gloves (such as nitrile, butyl, neoprene, and/or barrier laminate)
- 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. Do not apply directly to water, to areas where surface water is present or to inter-tidal 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 wash-waters.

This product is highly toxic to bees exposed to direct contact or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops if bees are visiting the treatment area. Additional information may be obtained by consulting your Cooperative Extension Service.

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. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

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

- Coveralls
- Chemical resistant gloves (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® 20WP 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® 20WP 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® 20WP 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® 20WP 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® 20WP 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® 20WP 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.

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.

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APPLICATION GUIDELINES

Not for Use in Greenhouses

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.

Aerial applications should be made in a minimum of 2 gallons/A, 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 to provide pest control. Higher labeled rates of Renounce® 20WP 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® 20WP may be necessary for chemigation applications.

Types of Irrigation Systems: Renounce® 20WP may be applied through sprinkler type irrigation systems. These types include: center pivot, lateral move, or solid set irrigation systems. Do not apply Renounce® 20WP through any other type of irrigation system.

Injection for Chemigation: Inject the specified dosage of Renounce® 20WP 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® 20WP 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.

Public Water Systems: DO NOT APPLY Renounce® 20WP 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. Renounce® 20WP may be applied through any of the recommended types of 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 flow outlet end of the fill pipe and the 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 same safety requirements as for any other type of water supply and include the same safety devices.

Chemical Supply Tank Dilution and Agitation: For injection of Renounce® 20WP use a chemical supply tank for pre-mixing Renounce® 20WP with water before injecting mixture into the irrigation line. Dilution ratio should be at least 0.5 gal. water to 1 lbs Renounce® 20WP. It is necessary to provide constant mechanical or hydraulic agitation to maintain Renounce® 20WP in suspension in the chemical supply tank during the entire period of application. Determine the required amounts of Renounce® 20WP and water to mix in the tank. The amount of Renounce® 20WP needed equals the number of ounces of Renounce® 20WP 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.

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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.

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, Follar 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 or natural 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.

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.

CROP ROTATION STATEMENT

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

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FIELD CROPS

RECOMMENDED APPLICATIONS – RENOUNCE® 20WP

For all crops, apply specific dosage of Renounce® 20WP 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 local economic thresholds. Renounce® 20WP 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® 20WP is a wettable powder formulation and is active by contact and ingestion. Thorough coverage is necessary for optimum performance.

See application recommendations at the beginning of each section: **FIELD CROPS; VEGETABLE CROPS; TREE and VINE CROPS.**

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ALFALFA		
PESTS CONTROLLED	Rate ounces/Acre	Rate lbs AI/Acre
Alfalfa looper Cutworms Green cloverworm Meadow spittlebug Potato leafhopper	1.0 – 2.0	0.013 – 0.025
Alfalfa caterpillar Alfalfa plant bug Alfalfa webworm Alfalfa weevil Armyworm Aster leafhopper Beet armyworm (1 st and 2 nd instar) Corn earworm Corn rootworms (adult) Cucumber beetles (adult) Egyptian alfalfa weevil Fall armyworm (1 st and 2 nd instar) Grape coliaspis (adult) Japanese beetle (adult) June beetle (adult) Loopers Lygus bug Mexican bean beetle Stink bugs Tarnished plant bug Threecornered alfalfa hopper Velvetbean caterpillar Yellowstriped armyworm (1 st and 2 nd instar)	2.0 – 3.5	0.025 – 0.044
Blotch leafminer Grasshoppers Western yellowstriped armyworm (1 st and 2 nd instar)	2.5 – 3.5	0.031 – 0.044
PESTS SUPPRESSED		
Cowpea aphid Blue pea aphid Pea aphid Whitefly (adult)	3.5	0.044
<p>Notes: Pre-Harvest Interval (PHI) or Pre-Grazing Interval: 7 days.</p> <p>Maximum Renounce® 20WP allowed per cutting: 4.0 ounces/A (0.050 lbs AI/Acre).</p> <p>Maximum Renounce® 20WP allowed per crop season: 16.0 ounces/A (0.20 lbs AI/Acre).</p> <p>Minimum application volume (water): 10.0 GPA – ground, 2.0 GPA – aerial application.</p> <p>Due to potential injury to bees, do not apply to alfalfa grown for seed.</p> <p>Do not apply to mixed stands with intentionally-grown forage grasses.</p> <p>See CHEMIGATION statement in <i>Application Guidelines</i> section of this label.</p>		

VEGETABLE CROPS

RECOMMENDED APPLICATIONS – RENOUNCE® 20WP

For all crops, apply specific dosage of Renounce® 20WP 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 local economic thresholds. Renounce® 20WP 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® 20WP is a wettable powder formulation and is active by contact and ingestion. Thorough coverage is necessary for optimum performance.

See application recommendations at the beginning of each section: **FIELD CROPS; VEGETABLE CROPS; TREE and VINE CROPS.**

COLE CROPS

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

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

PESTS CONTROLLED	Rate ounces/Acre	Rate lbs AI/Acre
Cutworms Potato leafhopper Thrips	1.0 – 2.0	0.013 – 0.025
Alfalfa looper Cabbage looper Cabbage web worm Imported cabbageworm Southern cabbageworm	2.0 – 3.0	0.025 – 0.038
Armyworm Beet armyworm (1 st and 2 nd instar) Cabbage flea beetle Corn earworm Diamondback moth (larvae)* Fall armyworm (1 st and 2 nd instar) Grasshoppers Japanese beetle (adult) Lygus bug Meadow spittlebug Southern armyworm (1 st and 2 nd instar) Stink bugs Tarnished plant bug* Vegetable weevil (adult) Yellowstriped armyworm	3.0 – 4.0	0.038 – 0.050
PESTS SUPPRESSED		
Whitefly (adult)*	4.0	0.050

Notes: Pre-Harvest Interval (PHI): 0 day.

Maximum Renounce® 20WP allowed per 7-day interval: **4.0 ounces/A (0.050 lbs AI/Acre).**

Maximum Renounce® 20WP allowed per crop season: **16.0 ounces/A (0.200 lbs AI/Acre).**

Maximum number of applications: **4.**

Minimum application volume (water): 10 GPA – ground, 5 GPA – aerial application.

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

See CHEMIGATION statement in *Application Guidelines* section of this label.

*See INSECT RESISTANCE statement elsewhere on this label.

** Use not permitted in CA unless accompanied by supplemental label.

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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 lbs AI/Acre
Cutworms Potato leafhopper	1.0 – 2.0	0.013 – 0.025
Armyworm Cabbage looper Corn earworm Grasshoppers Melonworm Pickleworm Rindworm Stink bugs	2.0 – 3.0	0.025 – 0.038
Cucumber beetle Lygus bug Stripped cucumber beetle Tarnished plant bug * Tobacco budworm	3.0 – 3.5	0.038 – 0.044
PESTS SUPPRESSED		
Whitefly (adult)	3.5	0.044

Notes: Pre-Harvest Interval (PHI) = 0 day.

Maximum Baythroid® 2 allowed per 7-day interval: 3.5 ounces/A (0.044 lbs AI/Acre).

Maximum Baythroid® 2 allowed per crop season: 14 ounces/A (0.175 lbs AI/Acre).

Maximum number of applications: 4.

Minimum application volume (water): 10.0 GPA – ground, 2.0 GPA – aerial application.

See CHEMIGATION statement in *Application Guidelines* section of this label.

* See INSECT RESISTANCE statement elsewhere on this label.

** Use not permitted in CA unless accompanied by supplemental label.

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FRUITING VEGETABLES		
Includes all members of Crop Group 8 such as, but not limited to: Eggplant**, Groundcherry**, Pepino**, Pepper (Includes: bell pepper, chill pepper, cooking pepper, pimento, sweet pepper), Tomatillo**, and Tomato		
PESTS CONTROLLED	Rate ounces/Acre	Rate lbs AI/Acre
Celery leaf-tier Colorado potato beetle * European corn borer Garden webworm Potato aphid Potato leafhopper Stink bugs Tomato fruitworm (corn earworm) Tomato hornworm	2.0 – 3.5	0.025 – 0.044
Beet armyworm (1 st and 2 nd instar) Cabbage looper Southern armyworm (1 st and 2 nd instar) Tarnished plant bug * Thrips (except <i>Thrips palmi</i>) Tomato pinworm Variegated cutworm Western yellowstriped armyworm (1 st and 2 nd instar)	2.6 – 3.5	0.033 – 0.044
Flea beetles	3.5	0.044
PESTS SUPPRESSED		
Leafminers Pepper weevil Whitefly (adult)	3.5	0.044
<p>Notes: Pre-Harvest Interval (PHI) for tomato = 0 days. PHI for all other fruiting vegetables included in this section = 7 days. Maximum Baythroid® 2 allowed per 7-day interval: 3.5 ounces/A (0.044 lbs AI/Acre). Maximum Baythroid® 2 allowed per crop season: 21 ounces/A (0.263 lbs AI/Acre). Maximum number of applications: 6. Minimum application volume (water): 10.0 GPA – ground, 2.0 GPA – aerial application. See CHEMIGATION statement in <i>Application Guidelines</i> section of this label. * See INSECT RESISTANCE statement elsewhere on this label. ** Use not permitted in CA unless accompanied by supplemental label.</p>		

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) ****, **Corn 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)****, **Radicchio (red chicory)****, **Rhubarb****, **Spinach****, **Swiss chard****, **Vine spinach****

PESTS CONTROLLED	Rate ounces/Acre	Rate lbs AI/Acre
Cutworms Potato leafhopper Thrips	1.0 – 2.0	0.013 – 0.025
Alfalfa looper Cabbage looper Green cloverworm Imported cabbageworm Saltmarsh caterpillar	2.0 – 3.0	0.025 – 0.038
Beet armyworm (1 st and 2 nd instar) Corn earworm Diamondback moth (larvae)* European corn borer Fall armyworm (1 st and 2 nd instar) Flea beetles Grasshoppers Japanese beetle (adult) Leafhoppers Lygus bug Meadow spittlebug Southern armyworm (1 st and 2 nd instar) Stink bugs Tarnished plant bug* Vegetable weevil (adult) Yellowstriped armyworm	3.0 – 4.0	0.038 – 0.050
PESTS SUPPRESSED		
Whitefly (adult)	4.0	0.050

Notes: Pre-Harvest interval (PHI): 0 day.

Maximum Renounce® 20WP allowed per 7-day interval: 4 ounces/A (0.050 lbs AI/Acre).

Maximum Renounce® 20WP allowed per crop season: 16.0 ounces/A (0.20 lbs AI/Acre).

Maximum number of applications: 4.

Minimum application volume (water): 10 GPA – ground, 5 GPA – aerial application.

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

See CHEMIGATION statement in *Application Guidelines* section of this label.

*See INSECT RESISTANCE statement elsewhere on this label.

**Use not permitted in CA unless accompanied by supplemental label.

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BEAN AND PEA, DRY

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**, Kidney 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 lbs AI/Acre
Cutworms Potato leafhopper	1.0 – 2.0	0.013 – 0.025
Cowpea curculio* Stink bugs Tarnished plant bug*	2.0 – 3.0	0.025 – 0.038
Bean leaf beetle Bean leaf webber Beet armyworm (1 st and 2 nd instar) Blister Beetle Cabbage looper Corn earworm Cucumber beetle European corn borer Fall armyworm (1 st and 2 nd instar) Grasshoppers Green cloverworm Japanese beetle (adult) Lygus bug Mexican bean beetle Pea leaf weevil Pea weevil Saltmarsh caterpillar Silverspotted skipper Soybean looper* Threecornered alfalfa hopper Tobacco budworm* Velvetbean caterpillar Webworm Woollybear caterpillar Yellowstriped armyworm	3.0 – 4.0	0.038 – 0.050
PEST SUPPRESSED		
Pea aphid	4.0	0.050

Notes: Pre-Harvest Interval (PHI): 7 days (minimum time between final application and threshing for seed).
 Maximum Baythroid® 2 allowed per 14-day interval: 4.0 ounces/A (0.050 lbs AI/Acre).
 Maximum Baythroid® 2 allowed per crop season: 8.0 ounces/A (0.100 lbs AI/Acre).
 Maximum number of applications: 4.
 Minimum application volume (water): 10.0 GPA – ground, 5.0 GPA – aerial application.
 See CHEMIGATION statement in *Application Guidelines* section of this label.
 Do not feed treated vines or hay to livestock.
 *See INSECT RESISTANCE statement elsewhere on this label.
 **Use not permitted in CA unless accompanied by supplemental label.

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PEA, SOUTHERN		
PESTS CONTROLLED	Rate ounces/Acre	Rate lbs AI/Acre
Cutworms Potato leafhopper	1.0 – 2.0	0.013 – 0.025
Beet armyworm (1 st and 2 nd instars) Corn earworm Cowpea curculio Fall armyworm (1 st and 2 nd instars) Grasshoppers Lygus bug Southern armyworm Stink bugs Tarnished plant bug Thrips Yellowstriped armyworm	2.0 – 2.6	0.025 – 0.033
<p>Notes: Pre-Harvest Interval (PHI): 3 days. Maximum Renounce® 20WP allowed per 5-day interval: 2.6 ounces/A (0.033 lbs AI/Acre). Maximum Renounce® 20WP allowed per crop season: 13.0 ounces/A (0.163 lbs AI/Acre). Maximum number of applications: 5. Minimum application volume (water): 10.0 GPA – ground, 2.0 GPA – aerial application. 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 CHEMIGATION statement in <i>Application Guidelines</i> section of this label. *See INSECT RESISTANCE statement elsewhere on this label.</p>		

POTATO, SWEET POTATO and other tuberous and corn 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**, Ginger**, Leren**, Potato, Sweet potato**, Tanier**, True yam**, Turmeric**, Yam bean****

PESTS CONTROLLED	Rate ounces/Acre	Rate lbs AI/Acre
Cutworms Potato leafhopper	1.0 – 2.0	0.013 – 0.025
Cabbage looper Colorado potato beetle* European corn borer Flea beetles Potato tuberworm Potato psyllid Sweetpotato weevil (adults) Tarnished plant bug*	2.0 – 3.5	0.025 – 0.044
PESTS SUPPRESSED		
Aphids	3.5	0.044

Notes:
 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® 20WP allowed per 5-day interval: **3.5 ounces/A (0.044 lbs AI/Acre)**.
 Maximum Renounce® 20WP allowed per crop season: **21.0 ounces/A (0.263 lbs AI/Acre)**.
 Maximum number of applications: **6**.
 Minimum application volume (water): **10.0 GPA – ground; 2.0 GPA – aerial application**.
 See CHEMIGATION statement in *Application Guidelines* section of this label.
 *See INSECT RESISTANCE statement elsewhere on this label.
 **Use not permitted in CA unless accompanied by supplemental label.

ROOT VEGETABLES (except sugarbeet)
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**, Parainin**, Radish, Oriental radish**, Rutabaga**, Salsify (black, Spanish, and oyster plant)**, Skirret**, Turnip****

PESTS CONTROLLED	Rate ounces/Acre	Rate lbs AI/Acre
Aster leafhopper Cutworms Flea Beetle Potato leafhopper	2.0 – 3.5	0.025 – 0.044
Carrot weevil	3.5	0.044

Notes: Pre-Harvest Interval (PHI): **0 day**.
 Maximum Baythroid® 2 allowed per 7-day interval: **3.5 ounces/A (0.044 lbs AI/Acre)**.
 Maximum Baythroid® 2 allowed per crop season: **17.5 ounces/A (0.220 lbs AI/Acre)**.
 Maximum number of applications: **5**.
 Minimum application volume (water): **10.0 GPA – ground, 2.0 GPA – aerial application**.
 Do not harvest radish tops (leaves) for human consumption.
 Due to potential injury to bees, do not apply to any of the crops listed in this section grown for seed.
 See CHEMIGATION statement in *Application Guidelines* section of this label.
 **Use not permitted in CA unless accompanied by supplemental label.

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SWEET CORN		
PESTS CONTROLLED	Rate ounces/Acre	Rate lbs AI/Acre
Black cutworm Flea beetles Granulate cutworm Sandhill cutworm	1.0 – 2.0	0.013 – 0.025
Armyworm Bean leaf beetle Cereal leaf beetle Chinch bug Click beetle (adult) Corn earworm Corn rootworms (adult) Corn silk fly European corn borer Grape colaspis (adult) Japanese beetle (adult) Leafhoppers Masked chafer (adult) Southern armyworm (1 st and 2 nd instar) Southern corn leaf beetle Southwestern corn borer Stalk borer Stink bugs Webworm Western bean cutworm Yellowstriped armyworm (1 st and 2 nd instar)	2.0 – 3.5	0.025 – 0.044
Grasshoppers	2.5 – 3.5	0.031 – 0.044
Fall armyworm (1 st and 2 nd instar)	3.5	0.044
Notes: Pre-Harvest Interval (PHI): 0 day. Maximum Renounce® 20WP allowed per day: 3.5 ounces/A (0.044 lbs AI/Acre). Maximum Renounce® 20WP allowed per crop season: 35.0 ounces/A (0.440 lbs AI/Acre). Maximum number of applications: 10. Minimum application volume (water): 10.0 GPA – ground; 2.0 – aerial application. See CHEMIGATION statement in <i>Application Guidelines</i> section of this label.		

TREE and VINE CROPS

RECOMMENDED APPLICATIONS – RENOUNCE® 20WP

For tree and vine crops, application rates should be based on the Tree or Vine, Row-Volume/Density concept for either dilute or concentrate applications. For determining product required in concentrate applications, first determine amount of spray volume per acre necessary to spray-to-drip in a dilute application in a grove, yard, vineyard, or orchard. Based on this volume, calculate required formulation quantities per acre. Apply equivalent amount per acre for concentrate sprays. For orchard/vineyard airblast applications, do not spray above trees/vines and turn off outward pointing nozzles at row ends and outer rows.

Renounce® 20WP is a wettable powder formulation and is active by contact and ingestion. Thorough coverage of foliage and fruit is necessary for optimum performance.

For all crops, apply specific dosage of Renounce® 20WP 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 local economic thresholds. 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.

See application recommendations at the beginning of each section: **FIELD CROPS; VEGETABLE CROPS; TREE and VINE CROPS.**

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 lbs A/Acre
Glassywinged sharpshooter	2.0 – 4.0	0.025 – 0.050
Foliar feeding cutworms		
Fuller rose beetle (larvae and adults on foliage)	3.0 – 4.0	0.038 – 0.050
Grasshoppers		
Root-weevil complex (larvae and adult on foliage)		
Citrus thrips	8.0	0.10
Katydid		

Notes: Pre-Harvest Interval (PHI): **0 day.**

Maximum Renounce® 20WP allowed per 7-day interval: **8.0 ounces/A (0.10 lbs A/Acre).**

Maximum Renounce® 20WP allowed per crop season: **8.0 ounces/A (0.10 lbs A/Acre).**

Maximum number of applications: **4** (at low rate).

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

Maximum use rate is based on canopy size requiring 250 gallons per acre, if sprayed to drip.

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GRAPE ** Raisin, Table, Wine grape, and Muscadine grape		
PESTS CONTROLLED	Rate ounces/Acre	Rate lbs A/Acre
Glassywinged sharpshooter Grape leaf skeletonizer Western grape leaf skeletonizer	2.0 – 4.0	0.025 – 0.050
Climbing cutworm Grape berry moth Grape bud beetle Grape cane gallmaker (adult) Grape flea beetle Grape leaf folder Grape leafhopper Grape leafroller Grape mealybug (crawlers) Omnivorous leafroller Orange tortrix Thrips Variegated leafhopper	3.0 – 4.0	0.038 – 0.050
<p>Notes: Pre-Harvest Interval (PHI): 3 days. Maximum Baythroid® 2 allowed per 14-day interval: 4 ounces/A (0.050 lbs A/Acre). Maximum Baythroid® 2 allowed per crop season: 16 ounces/A (0.200 lbs A/Acre). Maximum number of applications: 4. Minimum application volume (water): 50 GPA – ground, 25 GPA – aerial application. Maximum use rate is based on canopy size requiring 250 gallons per acre, if sprayed to drip. ** Use not permitted in CA unless accompanied by supplemental label.</p>		

HOP		
PESTS CONTROLLED	Rate ounces/Acre	Rate lbs A/Acre
Hop aphid Hop flea beetle Hop looper Hop plant bug	4.0	0.050
<p>Notes: Pre-Harvest Interval (PHI): 7 days. Maximum Renounce® 20WP allowed per 14-day interval: 4.0 ounces/A (0.050 lbs A/Acre). Maximum Renounce® 20WP allowed per crop season: 20.0 ounces/A (0.250 lbs A/Acre). Maximum number of applications: 5. Minimum application volume (water): 25 GPA – ground, 25 GPA – aerial application.</p>		

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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 lbs AI/Acre
Green fruitworm Potato leafhopper White apple leafhopper	1.8 – 2.5	0.023 – 0.031
Codling moth Oriental fruit moth Spotted tentiform leafminer Stink bugs Tarnished plant bug Western tentiform leafminer	2.5 – 3.0	0.031 – 0.038
Apple leafroller Apple maggot Ermine moth European apple sawfly Lesser appleworm Obliquebanded leafroller Pandemis leafroller Pear sawfly (larvae = pear slug) Periodical cicada Plum curculio Redbanded leafroller San Jose scale (crawlers) Tufted apple bud moth Variegated leafroller	3.0 – 3.5	0.038 – 0.044
<p>Notes: Pre-Harvest Interval (PHI): 7 days. Maximum Baythroid® 2 allowed per 14-day interval: 3.5 ounces/A (0.044 lbs AI/Acre). Maximum Baythroid® 2 allowed per crop season: 3.5 ounces/A (0.044 lbs AI/Acre). Maximum number of applications: 2 (at low rate). Minimum application volume (water): 100 GPA – ground application, 25 GPA – aerial application. Maximum use rate is based on canopy size requiring 400 gallons per acre, if sprayed to drip. ** Use not permitted in CA unless accompanied by supplemental label.</p>		

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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 plum, Damson plum, and Japanese plum), Plumcot, Prune		
PESTS CONTROLLED	Rate ounces/Acre	Rate lbs A/Acre
Green fruitworm Lesser peach tree borer White apple leafhopper	1.8 – 2.5	0.023 – 0.031
Codling moth Lygus bug Oriental fruit moth Stink bugs Tarnished plant bug	2.5 – 3.0	0.031 – 0.038
American plum borer Black cherry aphid Cherry fruit fly Obliquebanded leafroller Omnivorous leafroller Peach twig borer Periodical cicada Plum curculio Redbanded leafroller Western cherry fruit fly	3.0 – 3.5	0.038 – 0.044
<p>Notes: Pre-Harvest Interval (PHI): 7 days. Maximum Baythroid® 2 allowed per 14-day interval: 3.5 ounces/A (0.044 lbs A/Acre). Maximum Baythroid® 2 allowed per crop season: 7.2 ounces/A (0.088 lbs A/Acre). Maximum number of applications: 4 (at low rate). Minimum application volume (water): 50 GPA – ground application, 25 GPA – aerial application. Maximum use rate is based on canopy size requiring 250 gallons per acre, if sprayed to drip. ** Use not permitted in CA unless accompanied by supplemental label.</p>		

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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 lbs AI/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
<p>Notes: Pre-Harvest Interval (PHI): 14 days. Maximum Baythroid® 2 allowed per 14-day interval: 3.5 ounces/A (0.044 lbs AI/Acre). Maximum Baythroid® 2 allowed per crop season: 3.6 ounces/A (0.044 lbs AI/Acre). Maximum number of applications: 2 (at low rate). Minimum application volume (water): 100 GPA – ground application, 25 GPA – aerial application. Maximum use rate is based on canopy size requiring 500 gallons per acre, if sprayed to drip. ** Use not permitted in CA unless accompanied by supplemental label.</p>		

RATE CONVERSION CHART

OUNCES OF PRODUCT PER ACRE	LBS 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	0.050	10	80
8.0	0.10	5	40

RATE CONVERSION CHART FOR TREE AND VINE APPLICATIONS

OUNCES PER ACRE	OUNCES PER 100 GAL OF WATER WHEN USING SPRAY VOLUME OF:						
	25 GPA	50 GPA	100 GPA	150 GPA	200 GPA	250 GPA	500 GPA
1.8	7.2	3.6	1.8	1.2	0.9	0.7	0.36
2.0	8.0	4.0	2.0	1.3	1.0	0.8	0.4
2.5	10.0	5.0	2.5	1.7	1.3	1.0	0.5
3.0	12.0	6.0	3.0	2.0	1.5	1.2	0.6
3.5	14.0	7.0	3.5	2.3	1.8	1.4	0.7
4.0	16.0	8.0	4.0	2.7	2.0	1.6	0.8
8.0	32.0	16.0	8.0	5.3	4.0	3.2	1.6

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.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience. All such risks shall be assumed by the user or buyer.

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

Renounce is a registered trademark of Bayer.



Bayer CropScience

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