264-840 9/23/2010 1/31

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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

SEP 2 3 2010

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

Subject: Label Amendment to Increase the Soybean Pre-Harvest Interval (PHI)

EPA Registration No. 264-840
Baythroid® XL

Your submission dated December 15, 2009

Dear Dr. Movassaghi:

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

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

Sincerely,

Mark Suarez
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

# BAYTHROID® XL

For control of certain insect pests on field, vegetable, tree and vine crops.

ACTIVE INGREDIENT:

| | |
|---|---|
| ß-cyfluthrin<br>Cyano(4-fluoro-3-phenoxyphenyl)methyl-3-(2,2-dichloroethenyl)-2,2-dimethyl-cyclopropanecarboxylate ..... | 12.70% |
| INERT INGREDIENTS: ..... | 87.30% |
| Contains 1 lb Beta-cyfluthrin per gallon.<br>(This product contains aromatic petroleum distillates.) | 100.00% |

EPA Reg. No. 264-840 EPA Est. No.

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

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: | • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.<br>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.<br>• Call a poison control center or doctor for treatment advice. |
| IF SWALLOWED: | • Call a poison control center or doctor immediately for treatment advice.<br>• Do not induce vomiting unless told to do so by a poison control center or doctor.<br>• Do not give any liquid to the person.<br>• Do not give anything by mouth to an unconscious person. |
| IF ON SKIN OR CLOTHING: | • Take off contaminated clothing.<br>• Rinse skin immediately with plenty of water for 15 to 20 minutes.<br>• Call a poison control center or doctor for treatment advice. |
| IF INHALED: | • Move person to fresh air.<br>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.<br>• Call a poison control center or doctor for further treatment advice. |

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. Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

ACCEPTED
SEP 23 2010
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide Registered under EPA Reg. No. 264-840

# PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## WARNING

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Do not breathe vapors or spray mist. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals.

**Personal Protective Equipment (PPE):** Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G 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 barrier laminate or viton
- Shoes plus socks
- Protective eyewear
- **Mixer/loaders supporting aerial applications and chemigation applications must wear also** (except when using closed mixing/loading systems): a dust/mist filtering respirator MSHA/NIOSH approval number prefix TC-21C.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them. 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. Apply this product only as specified on this label.

This pesticide 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 on which bees are actively foraging. 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.**

## Buffer Zone Requirements:

**Vegetative Buffer Strip:**

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing Beta Cyfluthrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 2 1 pp. http://www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf.

**Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast)**

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes reservoirs, rivers, permanent streams; marshes or natural ponds, estuaries, and commercial fish ponds).

**Buffer Zone for ULV Aerial Application**

Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams; marshes or natural ponds, estuaries, and commercial fish ponds).

**Buffer Zone for Non-ULV Aerial Application**

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams; marshes or natural ponds, estuaries, and commercial fish ponds).

## Spray Drift Requirements

**Wind Direction and Speed:**

Only apply this product if the wind direction favors on-target deposition.

Do not apply when the wind velocity exceeds 15 mph.

**Temperature Inversion:**

Do not make aerial or ground applications into temperature inversions.

Inversions are characterized by stable air and increasing temperatures with height above the ground.. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

## Droplet Size:

Use only Medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

**Additional Requirements for Ground Applications**

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

**Additional Requirements for Aerial Applications**

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

## 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. Do not apply under conditions that favor drift from 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, 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 company representative or agricultural advisor/state Extension agent for the best alternative method of control in your area. Consult your state Cooperative Extension Service agent or agricultural advisor for insect resistance management strategies and recommended insect control methods in your area.

## PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

# 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 barrier laminate or viton
- Shoes plus socks
- Protective eyewear

## 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 container in a manner as to prevent spillage. If container is leaking, invert container to prevent leakage. If the container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer CropScience Emergency Response Team for decontamination procedures or any other assistance that may be necessary. Bayer CropScience Emergency Response Telephone No. is 1-800-334-7577.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**CONTAINER DISPOSAL - RETURNABLE/REFILLABLE SEALED CONTAINER:** Do not rinse container. Do not break seals. Replace the dust cover/cap and return container, intact to point of purchase.

**BAYTHROID® XL may be used for control of a broad spectrum of insect pests by contact action. Because of this contact activity, good spray coverage of the crop is needed for the highest level of control.**

## APPLICATION RECOMMENDATIONS

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

### Foliar Spray 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 gallonages. Refer to Spray Drift Reduction Management section for application guidelines on minimizing drift from 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. 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 BAYTHROID XL may be necessary for aerial applications.

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Chemigation applications (See Chemigation Application directions below) should be made as concentrated as possible. For best results apply at 100% input/travel speed, for center pivots or 0.1 inch (2,716 gallons) up to 0.15 inch (4,073 gallons) of water/A, for other systems. Higher labeled rates of BAYTHROID XL may be necessary for chemigation applications.

## Chemigation Application

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

**Injection for Chemigation:** Inject the specified dosage of BAYTHROID XL into the irrigation main, water stream: (1) through a constant flow, metering device; (2) into the center of the main line flow via a pitot tube or equivalent; (3) 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 BAYTHROID XL 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 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 BAYTHROID XL use a chemical supply tank for pre-mixing BAYTHROID XL with either water or non-emulsifiable oil before injecting mixture into the irrigation line. Dilution ratio should be at least 4 parts of either water/ or non-emulsifiable oil to 1 part BAYTHROID XL. If necessary, constant mechanical or hydraulic agitation should be maintained in the chemical supply tank during the entire period of application. Determine the required amounts of BAYTHROID XL and either water or non-emulsifiable oil to mix in the tank. The amount of BAYTHROID XL needed equals the number of fluid ounces of BAYTHROID XL to be applied per acre multiplied by the number of acres to be chemigated. The amount of emulsion needed equals the gallons of emulsion delivered per hour by the injection pump, multiplied by the number of hours chemigation will take place. The amount of either water or non-emulsifiable oil needed equals the amount of emulsion needed minus the amount of BAYTHROID XL needed.

**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 for all lines 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 be 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 crop injury, lack of 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.

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**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.

| Crop | 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 | 0.175 | 0.35 | 0.35 |
| Corn (field, pop, seed) | 0.088 | 0.175 | 0.175 |
| Cotton | 0.25 | 0.5 | 0.5 |
| Grasses | 0.089 | 0.176 | 0.176 |
| Peanut | 0.066 | 0.131 | 0.131 |
| Sorghum | 0.066 | 0.131 | 0.131 |
| Soybean | 0.088 | 0.175 | 0.175 |
| Sugarcane | 0.132 | 0.263 | 0.263 |
| Sunflower | 0.066 | 0.131 | 0.131 |
| Tobacco | 0.0022 | 0.0044 | 0.0044 |
| Barley, Buckwheat, Millet (Pearl And Proso), Oat, Rye,, Triticale And Wheat | 0.038 | 0.076 | 0.076 |
| Brassica (Cole) Leafy Vegetables, CG 5 | 0.1 | 0.2 | 0.2 |
| Cucurbits, CG 9 | 0.088 | 0.175 | 0.175 |
| Fruiting vegetables, CG 8 | 0.132 | 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 | 0.083 | 0.165 | 0.165 |
| Potato, and other tuberous and corm vegetables, CSG 1C | 0.132 | 0.263 | 0.263 |
| Carrot and Radish | 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 |
| Hop | 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 |

*BAYTHROID XL

**Any cyfluthrin product approved for crop use.

**FIELD CROPS**

**RECOMMENDED APPLICATIONS - BAYTHROID® XL**

For all crops, apply specific dosage of BAYTHROID XL 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. BAYTHROID XL 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.

BAYTHROID XL is an Emulsifiable Concentrate formulation and is active by contact and ingestion. Thorough coverage is necessary for optimum performance.

| ALFALFA | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Alfalfa looper<br>Army cutworm<br>Cutworms<br>Green cloverworm<br>Meadow spittlebug<br>Potato leafhopper | 0.8 - 1.6 | 0.0065 - 0.0125 |
| Alfalfa caterpillar<br>Alfalfa plant bug<br>Alfalfa webworm<br>Alfalfa weevil<br>Armyworm (1st and 2nd instar)<br>Aster leafhopper<br>Beet armyworm (1st and 2nd instar)<br>Corn earworm<br>Corn rootworms (adult)<br>Cucumber beetles (adult)<br>Egyptian alfalfa weevil<br>Fall armyworm (1st and 2nd instar)<br>Grape colaspis (adult)<br>Japanese beetle (adult)<br>June beetle (adult)<br>Loopers<br>Lygus bug<br>Mexican bean beetle<br>Stink bugs<br>Tarnished plant bug<br>Threecornered alfalfa hopper<br>Velvetbean caterpillar<br>Yellowstriped armyworm (1st and 2nd instar) | 1.6 - 2.8 | 0.0125 – 0.022 |
| Blotch leafminer<br>Grasshoppers<br>Western yellowstriped armyworm (1st and 2nd instar) | 2.0 - 2.8 | 0.0155 – 0.022 |
| PESTS SUPPRESSED | | |
| Blue pea aphid<br>Cowpea aphid<br>Pea aphid<br>Whitefly (adult) | 2.8 | 0.022 |

**Notes and Restrictions**

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

Maximum BAYTHROID XL allowed per cutting: **5.6 fluid ounces/A (0.044 lb AI/Acre)**.

Maximum BAYTHROID XL allowed per crop season: **22.4 fluid ounces/A 0.175 lb AI/Acre)**.

Make applications as necessary but no closer than a 5-day interval.

For applications to mixed-stands of ALFALFA with GRASSES intentionally grown for forage or hay, please see the section of this label entitled: GRASS – Pasture / Rangeland / Grass for Seed / Grass for Hay / Grass in mixed-stands with Alfalfa. 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.

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| CORN – Foliar Applications<br>Field Corn, Popcorn, Seed Corn, Teosinte – (see Sweet Corn recommendations in Vegetable Crops Section) | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Black cutworm<br>Flea beetles<br>Granulate cutworm<br>Sand hill cutworm | 0.8 – 1.6 | 0.007 – 0.013 |
| Armyworm (1st and 2nd instar)<br>Bean leaf beetle<br>Cereal leaf beetle<br>Chinch bug<br>Click beetle (adult)<br>Corn earworm<br>Corn rootworms (adult)<br>European corn borer*<br>Grape colaspis (adult)<br>Japanese beetle(adult)<br>June beetle (adult)<br>Leafhoppers<br>Masked chafer (adult)<br>Southern armyworm (1st and 2nd instar)<br>Southern corn leaf beetle<br>Southwestern corn borer*<br>Stalk borer*<br>Stink bugs<br>Webworm<br>Western bean cutworm<br>Yellowstriped armyworm (1st and 2nd instar) | 1.6 – 2.8 | 0.013 – 0.022 |
| Grasshoppers | 2.1 – 2.8 | 0.017 – 0.022 |
| Fall armyworm (1st and 2nd instar) | 2.8 | 0.022 |

**Notes and Restrictions**

Pre-Harvest Interval (PHI): Grain or fodder – **21 days**; Green forage – **0 day**.

Maximum BAYTHROID XL allowed per 7-day interval: **2.8 fluid ounces/A (0.022 lb AI/Acre).**

Maximum BAYTHROID XL allowed per crop season: **11.2 fluid ounces/A (0.088 lb AI/Acre)**.

Maximum number of applications per season: **4**. Three applications may be applied up to early dent stage. One application may be made between early dent and 21 days before harvest.

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

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

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| CORN – Soil Applications<br>Field Corn, Popcorn, Seed Corn, Teosinte –(see sweet Corn recommendation in Vegetable Crop Section) | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/1000 row-ft | Rate**<br>fluid ounces/Acre |
| Seedcorn maggot<br>Wireworm | 0.12 – 0.16 | 2.0 – 2.8 |
| PEST SUPPRESSED | | |
| White grub | 0.14 – 0.16 | 2.5 – 2.8 |

**Notes and Restrictions**

Pre-Harvest Interval (PHI): Grain or fodder – **21 days**; Green forage – **0 day**.

Maximum BAYTHROID XL allowed at planting: **2.8 fluid ounces/A (0.022 lb AI/Acre)**.

Maximum BAYTHROID XL allowed per crop season: **11.2 fluid ounces/A (0.088 lb AI/Acre).**

**APPLICATION INSTRUCTIONS:** BAYTHROID XL may be applied in water or in liquid, pop-up fertilizer at planting. Apply in a minimum of 2 GPA of total mix volume when applied in water. Good agitation must be maintained at all times during application.

**INSTRUCTIONS FOR LIQUID POP-UP FERTILIZER APPLICATION:** Perform a compatibility test prior to mixing the entire tank to ensure that BAYTHROID XL will remain in solution while applying. Take a known amount of the fertilizer to be used as a carrier and place in a glass jar. Add the appropriate amount of BAYTHROID XL based on the labeled use rate. Add other components to be tank mixed. Gently agitate the solution. Examine the solution for signs of incompatibility such as flocculation, precipitation, separation, etc. If incompatibility occurs contact your local Bayer CropScience representative for additional information. Fertilizers containing zinc have been shown to be incompatible with BAYTHROID XL.

**PLACEMENT**: Total mix volume should be applied in the open furrow ahead of the closing wheels for optimum coverage.

****ROW WIDTH**: The above rate calculations are based on standard 30 in. row spacing. For row spacing less than 30 inches, adjust rate not to exceed **2.8 fluid ounces/A (0.022 lb AI/Acre)**. Diminished control may occur when rate is decreased below recommended rate per 1000 row-ft.

| COTTON | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Cotton leafperforator<br>Cotton leafworm<br>Cutworms<br>Thrips | 0.8 – 1.6 | 0.007 – 0.013 |
| Boll weevil<br>Cabbage looper<br>Cotton aphid<br>Cotton bollworm*<br>Cotton fleahopper<br>Cucumber beetle<br>European corn borer<br>Flea beetles<br>Garden webworm<br>Lygus bug*<br>Pink bollworm<br>Saltmarsh caterpillar<br>Southern garden leafhopper<br>Stink bugs<br>Tarnished plant bug*<br>Threecornered alfalfa hopper<br>Tobacco budworm*<br>**Ovicidal Control:**<br>Cotton bollworm and tobacco budworm | 1.6 – 2.6 | 0.013 – 0.021 |
| Grasshopper | 2.0 – 2.8 | 0.016 – 0.022 |
| Beet armyworm (1st and 2nd instar)<br>Cotton leafminer<br>Fall armyworm (1st and 2nd instar)<br>Soybean looper<br>Yellowstriped armyworm (1st and 2nd instar) | 3.2 | 0.025 |
| PEST SUPPRESSED | | |
| Whitefly (adult) | 3.2 | 0.025 |

**Notes and Restrictions**

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

Maximum BAYTHROID XL allowed per 3-day interval: **3.2 fluid ounces/A (0.025 lb AI/Acre)**.

Maximum BAYTHROID XL allowed per crop season: **32.0 fluid ounces/A (0.25 lb AI/Acre)**.

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

Do not graze treated fields.

Do not make more than a total of 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season.

*See INSECT RESISTANCE statement elsewhere on this label.

| GRASS<br>Pasture / Rangeland / Grass for Seed / Grass for Hay / Grass in mixed-stands with Alfalfa | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Armyworms (1st and 2nd instar)<br>Army cutworm<br>Cereal leaf beetle<br>Cutworms<br>Green cloverworm<br>Meadow spittlebug<br>Potato leafhopper | 1.6 – 1.9 | 0.013 – 0.015 |
| Aster leafhopper<br>Beet armyworm (1st and 2nd instar)<br>Corn earworm<br>Chinch bug<br>Crickets<br>Fall armyworm (1st and 2nd instar)<br>Grass thrips<br>Grasshoppers<br>Japanese beetle (adult)<br>June beetle (adult)<br>Loopers<br>Lygus bug<br>Southern armyworm (1st and 2nd instar)<br>Stink bugs<br>Tarnished plant bug<br>Velvetbean caterpillar<br>Webworms<br>WesternYellowstriped armyworm (1st and 2nd instar)<br>Yellowstriped armyworm (1st and 2nd instar) | 2.6 – 2.8 | 0.02 – 0.022 |

**Notes and Restrictions: Grass for Pasture, Rangeland and Grass for Seed**

Pre-Grazing Interval: **0 day** (minimum time between last application and beginning of foraging or seed harvest).

Maximum BAYTHROID XL allowed per 5-day interval: **2.8 fluid ounces/A (0.022 lb AI/Acre).**

Maximum BAYTHROID XL allowed per crop season: **11.3 fluid ounces/A (0.089 lb AI/Acre).**

**Notes and Restrictions: Grass for Hay**

Pre-Harvest Interval (PHI): **0 day** (minimum time between last application and baling for harvest).

Maximum BAYTHROID XL allowed per 5-day interval: **2.8 fluid ounces/A (0.022 lb AI/Acre).**

Maximum BAYTHROID XL allowed per cutting: **11.3 fluid ounces/A (0.089 lb AI/Acre).**

**Notes and Restrictions: Grass in mixed-stands with Alfalfa**

See additional PESTS CONTROLLED from ALFALFA section of Label.

Pre-Harvest Interval (PHI) / Pre-Grazing Interval: **7 days** (minimum time between last application and beginning of foraging or baling).

Maximum BAYTHROID XL allowed per cutting: **2.8 fluid ounces/A (0.022 lb AI/Acre).**

Maximum BAYTHROID XL allowed per crop season: **11.3 fluid ounces/A (0.089 lb AI/Acre).**

| PEANUT | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Cutworms<br>Green cloverworm<br>Potato leafhopper<br>Rednecked peanutworm<br>Velvetbean caterpillar | 1.0 – 1.8 | 0.008 – 0.014 |
| Armyworm (1st and 2nd instar)<br>Bean leaf beetle<br>Corn earworm<br>Corn rootworms (adult)<br>Grape colaspis (adult)<br>Grasshoppers<br>Japanese beetle (adult)<br>June beetle (adult)<br>Stink bugs<br>Threecornered alfalfa hopper<br>Vegetable weevil | 1.8 – 2.4 | 0.014 – 0.019 |
| Beet armyworm (1st and 2nd instar)<br>Fall armyworm (1st and 2nd instar)<br>Southern armyworm (1st and 2nd instar)<br>Whitefringed beetle (adult) | 2.4 – 2.8 | 0.019 – 0.022 |
| PESTS SUPPRESSED | | |
| Soybean looper<br>Thrips<br>Whitefly (adult) | 2.8 | 0.022 |
| **Notes and Restrictions**<br>Pre-Harvest Interval (PHI): **14 days (minimum time between final application and threshing for seed).**<br>Maximum BAYTHROID XL allowed per 10-day interval: **2.8 fluid ounces/A (0.022 lb AI/Acre).**<br>Maximum BAYTHROID XL allowed per crop season: **8.4 fluid ounces/A (0.066 lb AI/Acre).**<br>Minimum ULV application volume (once refined cotton seed/vegetable oil): 1.0 qt/A – aerial application. | | |

| SORGHUM | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Cutworms<br>Sorghum midge | 1.0 – 1.3 | 0.008 – 0.01 |
| Armyworm (1st and 2nd instar)<br>Beet armyworm (1st and 2nd instar)<br>Black wooly bear<br>European corn borer*<br>Fall armyworm (1st and 2nd instar)<br>False chinch bug<br>Flea beetle<br>Sorghum headworm (corn earworm)<br>Sorghum webworm<br>Southern armyworm (1st and 2nd instar)<br>Southwestern corn borer*<br>Stalk borer*<br>Stink bugs<br>True armyworm (1st and 2nd instar)<br>Webworms<br>Yellowstriped armyworm (1st and 2nd instar) | 1.3 – 2.8 | 0.010 – 0.022 |
| Chinch bug<br>Grasshoppers<br>Sugarcane rootstock weevil | 2.0 – 2.8 | 0.019 – 0.022 |

**Notes and Restrictions**

Pre-Harvest Interval (PHI): **14 days**.

If more than 5.6 fluid ounces/Acre is applied, allow at least 14 days between last application and grazing.

Maximum BAYTHROID XL allowed per 10-day interval: **2.8 fluid ounces/A (0.022 lb AI/Acre)**.

Maximum BAYTHROID XL allowed per crop season: **8.4 fluid ounces/A (0.066 lb AI/Acre)**.

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

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

| SOYBEAN | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Bean leaf beetle (growth stage VC-V2)<br>Cutworms<br>Potato leafhopper<br>Thrips<br>Green cloverworm | 0.8 – 1.6 | 0.007 – 0.013 |
| Armyworm (1st and 2nd instar)<br>Bean leaf beetle<br>Bean leaf webber<br>Beet armyworm (1st and 2nd instar)<br>Blister beetle<br>Cabbage looper<br>Click beetle (adult)<br>Corn earworm<br>Corn rootworms (adult)<br>Cucumber beetle<br>European corn borer<br>Fall armyworm (1st and 2nd instar)<br>Grape colaspis (adult)<br>Japanese beetle (adult)<br>June beetle (adult)<br>Lygus bug<br>Masked chafer (adult)<br>Mexican bean beetle<br>Saltmarsh caterpillar<br>Silverspotted skipper<br>Southern armyworm (1st and 2nd instar)<br>Stink bugs<br>Tarnished plant bug*<br>Threecornered alfalfa hopper<br>Tobacco budworm*<br>Velvetbean caterpillar<br>Webworm<br>Woolybear caterpillar<br>Yellowstriped armyworm (1st and 2nd instar) | 1.6 – 2.8 | 0.013 – 0.022 |
| Grasshoppers<br>Soybean aphid | 2.0 – 2.8 | 0.016 – 0.022 |
| PESTS SUPPRESSED | | |
| Lesser cornstalk borer<br>Soybean looper* | 2.8 | 0.022 |

**Notes and Restrictions**

Pre-Harvest Interval (PHI) for seed: **21 days**; dry vines (hay) and green forage may be fed 15 days after last application.

Maximum BAYTHROID XL allowed per 7-day interval: **2.8 fluid ounces/A (0.022 lb AI/Acre)**.

Maximum BAYTHROID XL allowed per crop season: **11.2 fluid ounces/A (0.088 lb AI/Acre)**.

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

*See INSECT RESISTANCE statement elsewhere on this label.

| SUGARCANE | | |
|---|---|---|
| PESTS CONTROLLED | Rate fluid ounces/Acre | Rate lb AI/Acre |
| Sugarcane borer* | 2.1 | 0.017 |
| Rice stalk borer* | 2.8 | 0.022 |

**Notes and Restrictions**

Pre-Harvest Interval (PHI): **15 days**.

Maximum BAYTHROID XL allowed per 7-day interval: **2.8 fluid ounces/A (0.022 lb AI/Acre)**.

Maximum BAYTHROID XL allowed per crop season: **16.8 fluid ounces/A (0.132 lb AI/Acre)**.

For ground application, apply in a minimum of 10 GPA.

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

Do not apply if soil is saturated with water.

Do not apply under conditions that favor runoff.

Do not apply in the rain.

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

| SUNFLOWER | | |
|---|---|---|
| PESTS CONTROLLED | Rate fluid ounces/Acre | Rate lb AI/Acre |
| Cutworms<br>Sunflower beetle | 0.8 – 1.6 | 0.007 – 0.013 |
| Sunflower stem weevil (adult) | 1.6 – 2.4 | 0.013 – 0.019 |
| Banded sunflower moth<br>Grasshoppers<br>Stink bugs<br>Sunflower bud moth<br>Sunflower headclipping weevil<br>Sunflower midge<br>Sunflower moth<br>Sunflower seed weevil | 2.0 – 2.8 | 0.016 – 0.022 |
| Palestripped flea beetle | 2.8 | 0.022 |

**Notes and Restrictions**

Pre-Harvest Interval (PHI) and Pre-grazing or Foraging Interval: **30 days**.

Maximum BAYTHROID XL allowed per 7-day interval: **2.8 fluid ounces/A (0.022 lb AI/Acre)**.

Maximum BAYTHROID XL allowed per crop season: **8.4 fluid ounces/A (0.066 lb AI/Acre)**.

DO NOT apply by ULV application.

Use not permitted in California.

| TOBACCO | | |
|---|---|---|
| PESTS CONTROLLED | Rate fluid ounces/Acre | Rate lbs AI/Acre |
| Cutworms | 0.28 | 0.0022 |

**Notes and Restrictions**

Apply up to 7 days following transplanting as an individual plant treatment.

Maximum BAYTHROID XL allowed per crop season: **0.28 fluid ounces/A (0.0022 lb AI/Acre)**.

Maximum number of applications: **1**.

Minimum application volume (water): 15 GPA – ground

Use not permitted in CA.

| |
|---|
| CEREAL GRAIN (EXCEPT RICE)<br>Includes all members of Crop Group 15 (except rice): Wheat, Corn, Millet (pearl and proso), Barley, Buckwheat, Oats, Popcorn, Rye, Sorghum, Teosinte, and Triticale |
| FORAGE, FODDER AND STRAW OF CEREAL GRAIN<br>Includes all members of Crop Group 16, Forage, Fodder, and Straw of all commodities included in group cereal grains (except rice). |
| |
| See use recommendation for each crop. |

| BARLEY, BUCKWHEAT, MILLET (PEARL and PROSO), OAT, RYE,, TRITICALE and WHEAT | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Army cutworm<br>Cereal leaf beetle<br>Cutworms | 1.0 – 1.8 | 0.008 – 0.014 |
| Armyworm (1st and 2nd instar)<br>Bird cherry-oat aphid*<br>English grain aphid*<br>Fall armyworm (1st and 2nd instar)<br>Flea beetles<br>Grasshoppers<br>Grass sawfly<br>Pale western cutworm<br>Russian wheat aphid*<br>Southern armyworm (1st and 2nd instar)<br>Stink bugs<br>Yellowstriped armyworm (1st and 2nd instar) | 1.8 – 2.4 | 0.014 – 0.019 |
| Chinch bug | 2.4 | 0.019 |

**Notes and Restrictions**

Pre-Grazing or Foraging Interval: **3 days**. Pre-Harvest Interval (PHI): **30 days.**

Maximum BAYTHROID XL allowed per 3-day interval: **2.4 fluid ounces/A (0.019 lb AI/Acre)**.

Maximum BAYTHROID XL allowed per crop season: **4.8 fluid ounces/A (0.038 lb AI/Acre)**.

* For best control, applications must be made prior to insects damaging the plants. Use the higher rate range and increased water volume for applications occurring after plant damage has taken place or following booting in order to receive better coverage. Once damage occurs or plant growth stage reaches booting, control may be limited to suppression only.

VEGETABLE CROPS

RECOMMENDED APPLICATIONS - BAYTHROID® XL

For all crops, apply specific dosage of BAYTHROID XL 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. BAYTHROID XL 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.

BAYTHROID XL is an Emulsifiable Concentrate formulation and is active by contact and ingestion. Thorough coverage is necessary for optimum performance.

| BRASSICA (COLE) LEAFY VEGETABLES<br>Includes all members of Crop Group 5:<br>Broccoli, Broccoli raab (rapini), Chinese (gai lon) broccoli, Brussels sprouts, Cabbage, Chinese (bok choy) cabbage, Chinese (napa) cabbage, Chinese mustard (gai choy) cabbage, Cauliflower, Cavalo broccolo, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens, and Turnip greens. | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Cutworms<br>Potato leafhopper<br>Thrips | 0.8 – 1.6 | 0.007 – 0.013 |
| Alfalfa looper<br>Cabbage looper<br>Cabbage webworm<br>Imported cabbageworm<br>Southern cabbageworm | 1.6 – 2.4 | 0.013– 0.019 |
| Armyworm (1st and 2nd instar)<br>Beet armyworm (1st and 2nd instar)<br>Cabbage flea beetle<br>Corn earworm<br>Diamondback moth (larvae)*<br>Fall armyworm (1st and 2nd instar)<br>Grasshoppers<br>Japanese beetle (adult)<br>Lygus bug<br>Meadow spittlebug<br>Southern armyworm (1st and 2nd instar)<br>Stink bugs<br>Tarnished plant bug*<br>Vegetable weevil (adult)<br>Yellowstriped armyworm (1st and 2nd instar) | 2.4 – 3.2 | 0.019– 0.025 |
| PEST SUPPRESSED | | |
| Whitefly (adult) | 3.2 | 0.025 |

**Notes and Restrictions**

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

Maximum BAYTHROID XL allowed per 7-day interval: **3.2 fluid ounces/A (0.025 lb AI/Acre)**.

Maximum BAYTHROID XL allowed per crop season: **12.8 fluid ounces/A (0.1 lb AI/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:

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 fluid ounces/Acre | Rate lb AI/Acre |
|---|---|---|
| Cutworms<br>Potato leafhopper | 0.8 – 1.6 | 0.007 – 0.013 |
| Armyworm (1st and 2nd instar)<br>Cabbage looper<br>Corn earworm<br>Grasshoppers<br>Melonworm<br>Pickleworm<br>Rindworm<br>Stink bugs | 1.6 – 2.4 | 0.013 – 0.019 |
| Cucumber beetles<br>Lygus bug<br>Tarnished plant bug *<br>Tobacco budworm | 2.4 – 2.8 | 0.019– 0.022 |
| PEST SUPPRESSED | | |
| Whitefly (adult) | 2.8 | 0.022 |

**Notes and Restrictions**

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

Maximum BAYTHROID XL allowed per 7-day interval: **2.8 fluid ounces/A (0.022 lb AI/Acre).**

Maximum BAYTHROID XL allowed per crop season: **11.2 fluid ounces/A (0.088 lb AI/Acre).**

* See INSECT RESISTANCE statement elsewhere on this label.

| FRUITING VEGETABLES<br>Includes all members of Crop Group 8:<br>Eggplant, Groundcherry, Pepino, Pepper (includes: bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo, and Tomato | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Celery leaftier<br>Colorado potato beetle *<br>European corn borer<br>Garden webworm<br>Potato aphid<br>Potato leafhopper<br>Stink bugs<br>Tomato fruitworm (corn earworm)<br>Tomato hornworm | 1.6 – 2.8 | 0.013 – 0.022 |
| Beet armyworm (1st and 2nd instar)<br>Cabbage looper<br>Southern armyworm (1st and 2nd instar)<br>Tarnished plant bug *<br>Thrips (except *Thrips palmi*)<br>Tomato pinworm<br>Variegated cutworm<br>Western yellowstriped armyworm (1st and 2nd instar) | 2.1 – 2.8 | 0.017 – 0.022 |
| Flea beetles<br>Garden symphylan | 2.8 | 0.022 |
| PESTS SUPPRESSED | | |
| Leafminers (Adult)<br>Pepper weevil<br>Whitefly (adult) | 2.8 | 0.022 |

**Notes and Restrictions**

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

Maximum BAYTHROID XL allowed per 7-day interval: **2.8 fluid ounces/A (0.022 lb AI/Acre).**

Maximum BAYTHROID XL allowed per crop season: **16.8 fluid ounces/A (0.132 lb AI/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:**

**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 fluid ounces/Acre | Rate lb AI/Acre |
|---|---|---|
| Cutworms<br>Potato leafhopper<br>Thrips | 0.8 – 1.6 | 0.007 – 0.013 |
| Alfalfa looper<br>Cabbage looper<br>Green cloverworm<br>Imported cabbageworm<br>Saltmarsh caterpillar | 1.6 – 2.4 | 0.013 – 0.019 |
| Beet armyworm (1st and 2nd instar)<br>Corn earworm<br>Diamondback moth (larvae)*<br>European corn borer<br>Fall armyworm (1st and 2nd instar)<br>Flea beetles<br>Grasshoppers<br>Japanese beetle (adult)<br>Leafhoppers<br>Lygus bug<br>Meadow spittlebug<br>Southern armyworm (1st and 2nd instar)<br>Stink bugs<br>Tarnished plant bug*<br>Vegetable weevil (adult)<br>Yellowstriped armyworm (1st and 2nd instar) | 2.4 – 3.2 | 0.019 – 0.025 |
| **PEST SUPPRESSED** | | |
| Whitefly (adult) | 3.2 | 0.025 |

**Notes and Restrictions**

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

Maximum BAYTHROID XL allowed per 7-day interval: **3.2 fluid ounces/A (0.025 lb AI/Acre)**.

Maximum BAYTHROID XL allowed per crop season: **12.8 fluid ounces/A (0.1 lb AI/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.**

DRIED SHELLED LEGUME VEGETABLES

Includes all members of Crop Subgroup 6C:

Adzuki bean, Blackeyed pea, Broad bean, Catjang, Chickpea (Garbanzo bean), Cowpea, Crowder pea, Field bean, Field pea, Guar, Kidney bean, Lablab bean, Lentil, Dry Lima bean, Lupin (grain, sweet, white and white sweet), Moth bean, Mung bean, Navy bean, Pigeon pea, Pinto bean, Rice bean, Tepary bean, Urd bean

(Southern pea included in separate section.)

| PESTS CONTROLLED | Rate fluid ounces/Acre | Rate lb AI/Acre |
|---|---|---|
| Cutworms<br>Potato leafhopper | 0.8 – 1.6 | 0.007 – 0.013 |
| Cowpea curculio*<br>Stink bugs<br>Tarnished plant bug* | 1.6 – 2.4 | 0.013 – 0.019 |
| Bean leaf beetle<br>Bean leaf webber<br>Beet armyworm (1st and 2nd instar)<br>Blister beetle<br>Cabbage looper<br>Corn earworm<br>Cucumber beetle<br>European corn borer<br>Fall armyworm (1st and 2nd instar)<br>Grasshoppers<br>Green cloverworm<br>Japanese beetle (adult)<br>Lygus bug<br>Mexican bean beetle<br>Pea leaf weevil<br>Pea weevil<br>Saltmarsh caterpillar<br>Silverspotted skipper<br>Soybean looper*<br>Threecornered alfalfa hopper<br>Tobacco budworm*<br>Velvetbean caterpillar<br>Webworm<br>Woolybear caterpillar<br>Yellowstriped armyworm (1st and 2nd instar) | 2.4 – 3.2 | 0.019– 0.025 |
| PEST SUPPRESSED | | |
| Pea aphid | 3.2 | 0.025 |

**Notes and Restrictions**

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

Maximum BAYTHROID XL allowed per 14-day interval: **3.2 fluid ounces/A (0.025 lb AI/Acre)**.

Maximum BAYTHROID XL allowed per crop season: **6.4 fluid ounces/A (0.05 lb AI/Acre)**.

Do not feed treated vines or hay to livestock.

*See INSECT RESISTANCE statement elsewhere on this label.

| PEA, SOUTHERN | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Cutworms<br>Potato leafhopper | 0.8 – 1.6 | 0.007 – 0.013 |
| Beet armyworm (1st and 2nd instar)<br>Corn earworm<br>Cowpea curculio*<br>Fall armyworm (1st and 2nd instar)<br>Grasshoppers<br>Lygus bug<br>Southern armyworm (1st and 2nd instar)<br>Stink bugs<br>Tarnished plant bug*<br>Thrips<br>Yellowstriped armyworm (1st and 2nd instar) | 1.6 – 2.1 | 0.013 - 0.017 |
| **Notes and Restrictions**<br>Pre-Harvest Interval (PHI): **3 day**.<br>Maximum BAYTHROID XL allowed per 5-day interval: **2.1 fluid ounces/A (0.017 lb AI/Acre)**.<br>Maximum BAYTHROID XL allowed per crop season: **10.5 fluid ounces/A (0.083 lb AI/Acre)**.<br>Due to potential injury to bees, do not apply to southern peas grown for seed.<br>Do not feed treated vines or hay to livestock.<br>Do not apply to cowpea or southern pea varieties grown for livestock feed.<br>*See INSECT RESISTANCE statement elsewhere on this label. | | |

| POTATO AND OTHER TUBEROUS AND CORM VEGETABLES<br>Includes all members of Crop Subgroup 1C:<br>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, Turmeric, Yam bean | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Cutworms<br>Potato leafhopper | 0.8 - 1.6 | 0.007 – 0.013 |
| Cabbage looper<br>Colorado potato beetle*<br>Cucumber beetles<br>European corn borer<br>Flea beetles<br>Potato psyllid<br>Potato tuberworm<br>Sweetpotato weevil (adults)<br>Tarnished plant bug* | 1.6 - 2.8 | 0.013 – 0.022 |
| PEST SUPPRESSED | | |
| Aphids | 2.8 | 0.022 |
| Notes **and Restrictions**<br>Pre-Harvest Interval (PHI): **0 day**.<br>If more than 5.6 fluid ounces/Acre is applied, allow at least 14 days between last application and grazing.<br>Maximum BAYTHROID XL allowed per 5-day interval: **2.8 fluid ounces/A (0.022 lb AI/Acre)**.<br>Maximum BAYTHROID XL allowed per crop season: **16.8 fluid ounces/A (0.132 lb AI/Acre)**.<br>*See INSECT RESISTANCE statement elsewhere on this label. | | |

| CARROT AND RADISH | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Aster leafhopper<br>Cutworms<br>Flea beetles<br>Potato leafhopper | 1.6 – 2.8 | 0.013 – 0.022 |
| Carrot weevil | 2.8 | 0.022 |
| Notes **and Restrictions**<br>Pre-Harvest Interval (PHI): **0 day**.<br>Maximum BAYTHROID XL allowed per 7-day interval: **2.8 fluid ounces/A (0.022 lb AI/Acre)**.<br>Maximum BAYTHROID XL allowed per crop season: **14.0 fluid ounces/A (0.11 lb AI/Acre)**.<br>Do not harvest radish tops (leaves) for human consumption.<br>Due to potential injury to bees, do not apply to crops grown for seed. | | |

| SWEET CORN – FOLIAR APPLICATIONS | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Black cutworm<br>Flea beetles<br>Granulate cutworm<br>Sand hill cutworm | 0.8 - 1.6 | 0.007 – 0.013 |
| Armyworm (1st and 2nd instar)<br>Bean leaf beetle<br>Cereal leaf beetle<br>Chinch bug<br>Click beetle (adult)<br>Corn earworm<br>Corn rootworms (adult)<br>Corn silk fly (adult)<br>European corn borer*<br>Grape colaspis (adult)<br>Japanese beetle (adult)<br>June beetle (adult)<br>Leafhoppers<br>Masked chafer (adult)<br>Southern armyworm (1st and 2nd instar)<br>Southern corn leaf beetle<br>Southwestern corn borer*<br>Stalk borer*<br>Stink bugs<br>Webworm<br>Western bean cutworm<br>Yellowstriped armyworm (1st and 2nd instar) | 1.6 - 2.8 | 0.013 – 0.022 |
| Grasshoppers | 2.0 - 2.8 | 0.016 – 0.022 |
| Fall armyworm (1st and 2nd instar) | 2.8 | 0.022 |

**Notes and Restrictions**

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

Maximum BAYTHROID XL allowed per 2 day interval: **2.8 fluid ounces/A (0.022 lb AI/Acre)**.

Maximum BAYTHROID XL allowed per crop season: **28.0 fluid ounces/A (0.22 lb AI/Acre)**.

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

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

| SWEET CORN – Soil Applications | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/1000 row-ft | Rate<br>fluid ounces/Acre |
| Seedcorn maggot<br>Wireworm | 0.12 – 0.16 | 2.0 – 2.8 |
| PEST SUPPRESSED | | |
| White grub | 0.14 – 0.16 | 2.5 – 2.8 |

**Notes and Restrictions**

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

Maximum BAYTHROID XL allowed at planting: **2.8 fluid ounces/A (0.022 lb AI/Acre)**.

Maximum BAYTHROID XL allowed per crop season: **28.0 fluid ounces/A (0.22 lb AI/Acre)**.

**APPLICATION INSTRUCTIONS:** BAYTHROID XL may be applied in water or in liquid, pop-up fertilizer at planting. Apply in a **minimum of 2 GPA** of total mix volume when applied in water. Good agitation must be maintained at all times during application.

**INSTRUCTIONS FOR LIQUID POP-UP FERTILIZER APPLICATION:** Perform a compatibility test prior to mixing the entire tank to ensure that BAYTHROID XL will remain in solution while applying. Take a known amount of the fertilizer to be used as a carrier and place in a glass jar. Add the appropriate amount of BAYTHROID XL based on the labeled use rate. Add other components to be tank mixed. Gently agitate the solution. Examine the solution for signs of incompatibility such as flocculation, precipitation, separation, etc. If incompatibility occurs contact your local Bayer CropScience representative for additional information. Fertilizers containing zinc have been shown to be incompatible with BAYTHROID XL.

**PLACEMENT:** Total mix volume should be applied in the open furrow ahead of the closing wheels for optimum coverage.

Use not permitted in California.

**TREE and VINE CROPS**

**RECOMMENDED APPLICATIONS - BAYTHROID® XL**

For all crops, apply specific dosage of BAYTHROID XL 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 or when applying by air. 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.

BAYTHROID XL is an Emulsifiable Concentrate (EC) formulation and is active by contact and ingestion. For tree and vine crops, apply by ground or air equipment using sufficient water to obtain through coverage of target plant parts for optimum performance. When applying by air, apply in a minimum of 5 gallons/A; unless specified otherwise in the crop specific recommended application sections. Use higher volumes as necessary to achieve thorough coverage.

| CITRUS (California and Arizona, Only)<br>Includes all members of Crop Group 10:<br>Calamondin, Citrus citron, Citrus hybrids (includes chironja, tangelo, and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (sweet and sour), Pummelo, Satsuma mandarin, White sapote, and other cultivars and/or hybrids of these. | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Glassywinged sharpshooter | 1.6 – 3.2 | 0.013 – 0.025 |
| Foliar feeding cutworms<br>Fuller rose beetle (larvae and adults on foliage)<br>Grasshoppers<br>Root-weevil complex (larvae and adults on foliage) | 2.4 – 3.2 | 0.019 – 0.025 |
| Asian citrus psyllid | 2.4 - 6.4 | 0.019 - 0.05 |
| Citrus thrips<br>Katydid | 6.4 | 0.05 |
| **Notes and Restrictions**<br>Pre-Harvest Interval (PHI): **0 day**.<br>Maximum BAYTHROID XL allowed per 7-day interval: **6.4 fluid ounces/A (0.05 lb AI/Acre)**.<br>Maximum BAYTHROID XL allowed per crop season: **6.4 fluid ounces/A (0.05 lb AI/Acre)**.<br>Minimum application volume (water): 25 GPA – ground, 25 GPA – aerial application. | | |

| GRAPE<br>Includes: Table grape, Raisin, Wine and Muscadine grape | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Glassywinged sharpshooter<br>Grape leaf skeletonizer<br>Western grape leaf skeletonizer | 1.6 – 3.2 | 0.013 – 0.025 |
| Climbing cutworm<br>Grape berry moth<br>Grape bud beetle<br>Grape cane gallmaker (adult)<br>Grape flea beetle<br>Grape leaffolder<br>Grape leafhopper<br>Grape leafroller<br>Grape mealybug (crawlers)<br>Omnivorous leafroller<br>Orange tortrix<br>Thrips<br>Variegated leafhopper | 2.4 – 3.2 | 0.019 – 0.025 |
| **Notes and Restrictions**<br>Pre-Harvest Interval (PHI): **3 days**.<br>Maximum BAYTHROID XL allowed per 14-day interval: **3.2 fluid ounces/A (0.025 lb AI/Acre)**.<br>Maximum BAYTHROID XL allowed per crop season: **12.8 fluid ounces/A (0.1 lb AI/Acre)**.<br>Minimum application volume (water): 50 GPA – ground, 25 GPA – aerial application. | | |

| HOP | | |
|---|---|---|
| PESTS CONTROLLED | Rate fluid ounces/Acre | Rate lb AI/Acre |
| Hop aphid<br>Hop flea beetle<br>Hop looper<br>Hop plant bug | 3.2 | 0.025 |
| **Notes and Restrictions**<br>Pre-Harvest Interval (PHI): **7 days**.<br>Maximum BAYTHROID XL allowed per 14-day interval: **3.2 fluid ounces/A (0.025 lb AI/Acre)**.<br>Maximum BAYTHROID XL allowed per crop season: **16.0 fluid ounces/A (0.125 lb AI/Acre)**.<br>Minimum application volume (water): 25 GPA – ground, 25 GPA – aerial application. | | |

| POME FRUIT<br>Includes all members of Crop Group 11:<br>Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental pear, Quince | | |
|---|---|---|
| PESTS CONTROLLED | Rate fluid ounces/Acre | Rate lb AI/Acre |
| Green fruitworm<br>Potato leafhopper<br>White apple leafhopper | 1.4 – 2.0 | 0.011 – 0.016 |
| Codling moth<br>Oriental fruit moth<br>Spotted tentiform leafminer<br>Stink bugs<br>Tarnished plant bug<br>Western tentiform leafminer | 2.0 – 2.4 | 0.016 – 0.019 |
| Apple leafroller<br>Apple maggot (adult)<br>Ermine moth<br>European apple sawfly<br>Lesser appleworm<br>Obliquebanded leafroller<br>Pandemis leafroller<br>Pear sawfly (larvae = pear slug)<br>Periodical cicada<br>Plum curculio<br>Redbanded leafroller<br>San Jose scale (crawlers)<br>Tufted apple bud moth<br>Variegated leafroller | 2.4 – 2.8 | 0.019 – 0.022 |
| **Notes and Restrictions**<br>Pre-Harvest Interval (PHI): **7 days**.<br>Maximum BAYTHROID XL allowed per 14-day interval: **2.8 fluid ounces/A (0.022 lb AI/Acre)**.<br>Maximum BAYTHROID XL allowed per crop season: **2.8 fluid ounces/A (0.022 lb AI/Acre)**.<br>Minimum application volume (water): 100 GPA – ground application, 25 GPA – aerial application. | | |

| STONE FRUIT<br>Includes all members of Crop Group 12:<br>Apricot, Cherry (sweet and tart), Nectarine, Peach, Plum (includes Chickasaw, Damson, and Japanese), Plumcot, Prune (fresh and dried) | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Green fruitworm<br>Lesser peach tree borer<br>White apple leafhopper | 1.4 – 2.0 | 0.011 – 0.016 |
| Codling Moth<br>Lygus bug<br>Oriental fruit moth<br>Stink bugs<br>Tarnished plant bug | 2.0 – 2.4 | 0.016 – 0.019 |
| American plum borer<br>Black cherry aphid<br>Cherry fruit fly<br>Obliquebanded leafroller<br>Omnivorous leafroller<br>Peach twig borer<br>Periodical cicada<br>Plum curculio<br>Redbanded leafroller<br>Western cherry fruit fly | 2.4 – 2.8 | 0.019 – 0.022 |
| **Notes and Restrictions**<br>Pre-Harvest Interval (PHI): **7 days**.<br>Maximum BAYTHROID XL allowed per 14-day interval: **2.8 fluid ounces/A (0.022 lb AI/Acre)**.<br>Maximum BAYTHROID XL allowed per crop season: **5.6 fluid ounces/A (0.044 lb AI/Acre)**.<br>Minimum application volume (water): 50 GPA – ground application, 25 GPA – aerial application. | | |

| TREE NUT CROPS<br>Includes all members of Crop Group 14:<br>Almond, Beechnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Hickory nut, Macadamia nut, Pecan, Pistachio, Walnut (black and English) | | |
|---|---|---|
| PESTS CONTROLLED | Rate<br>fluid ounces/Acre | Rate<br>lb AI/Acre |
| Potato leafhopper<br>White apple leafhopper | 1.4 – 2.0 | 0.011 – 0.016 |
| Ants (on foliage)<br>Codling moth<br>Common earwig<br>Filbertworm<br>Leaffooted bug<br>Navel orangeworm<br>Pecan nut casebearer<br>Pecan weevil<br>Stink bugs<br>Tarnished plant bug<br>Twolined spittlebug | 2.0 – 2.4 | 0.016 – 0.019 |
| Hickory shuckworm<br>Obliquebanded leafroller<br>Peach twig borer<br>Walnut husk fly | 2.4 – 2.8 | 0.019 – 0.022 |
| **Notes and Restrictions**<br>Pre-Harvest Interval (PHI): **14 days**.<br>Maximum BAYTHROID XL allowed per 14-day interval: **2.8 fluid ounces/A (0.022 lb AI/Acre)**.<br>Maximum BAYTHROID XL allowed per crop season: **2.8 fluid ounces/A (0.022 lb AI/Acre)**.<br>Minimum application volume (water): 100 GPA – ground application, 25 GPA – aerial application. | | |

## RATE CONVERSION CHART

| FLUID OUNCES PER ACRE | LB AI PER ACRE | ACRES PER GALLON |
|---|---|---|
| 0.8 | 0.0065 | 160 |
| 1.0 | 0.008 | 128 |
| 1.2 | 0.0095 | 107 |
| 1.4 | 0.011 | 91 |
| 1.6 | 0.0125 | 80 |
| 1.8 | 0.014 | 71 |
| 2.0 | 0.0155 | 64 |
| 2.2 | 0.017 | 56 |
| 2.4 | 0.019 | 53 |
| 2.6 | 0.0205 | 49 |
| 2.8 | 0.022 | 46 |
| 3.0 | 0.0235 | 43 |
| 3.2 | 0.025 | 40 |
| 6.4 | 0.05 | 20 |

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Bayer CropScience

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