Dear Ms. Cain:

Re: Registration of a Major Change in Labeling for the Active Ingredient Deltamethrin (Chemical Code 097805) Contained in Decis 0.2EC Insecticide (EPA Reg. No. 264-1007)

The New York State Department of Environmental Conservation (Department) has completed review of your application and data package received on December 20, 2005 and supplemental information supplied to date regarding registration of the above-referenced pesticide product. The subject application and data package were deemed complete for purposes of technical review on September 5, 2006. Pursuant to the review time frame specified in Environmental Conservation Law (ECL) §33-0704.2, a registration decision date of February 2, 2007 was established. However, Bayer CropScience requested and was granted a waiver of the decision date to allow ample time to mitigate specific concerns of the Department regarding application methods and buffer zones near aquatic areas.

Previously approved uses of deltamethrin in New York State include residential, commercial and institutional insecticide sprays and dust, insect control in turfgrass, ornamentals, and building perimeters, use on dogs in flea and tick collars, and protection of stored grain and seeds. The application for registration of Decis 0.2EC Insecticide was determined to be a major change in labeling due to the proposed use on agricultural crops including bulb vegetables, cucurbit vegetables, fruiting vegetables, root vegetables (except sugarbeets), tuberous and corm vegetables, pome fruits, tree nuts, canola and rapeseed, field corn, popcorn, sweet corn, soybeans, sorghum and sunflowers.

Decis 0.2EC Insecticide contains 2.86% deltamethrin. The product is formulated as an emulsifiable concentrate and is classified as a “restricted use pesticide” by the United States Environmental Protection Agency (USEPA) due to acute toxicity to fish and aquatic organisms. The maximum annual application rate for Decis 0.2EC Insecticide is 288 fluid ounces per acre per year (0.45 pounds of deltamethrin per acre per year).

The Department hereby accepts Decis 0.2EC Insecticide (EPA Reg. No. 264-1007) for registration as a “restricted use” pesticide in New York State. The following technical
reviews were conducted to evaluate the expanded use of deltamethrin in New York State.

**ENVIRONMENTAL FATE AND GROUNDWATER IMPACTS:**

The Department’s groundwater staff reviewed the information submitted in support of the major change in labeling for Decis 0.2EC Insecticide. The following is the groundwater staff’s technical review:

**Solubility:** Deltamethrin has a solubility of 200 mg/L.

**Hydrolysis:** No DER was submitted, but the EPA discussed this study in a 4/10/92 EFGWB memo. The study was marginally acceptable. At pH 9, the half-life was 2.5 days. The study at pHs 5 and 7 needed to be repeated.

**Aqueous Photolysis:** In an acceptable study (MRID 42114818), in the benzyl-labeled ring, the half-life was 64 days with one transformation product: 3-phenoxybenzoic acid. In the gem-labeled ring, the half-life was 86 days.

**Soil Photolysis:** In an acceptable study (MRID 42114819), the half-life in a sandy loam was 9 days.

**Aerobic Soil Metabolism:** According to the DER (MRID 42114820), this was the third study submitted, and the first two (MRID 41677407 and 41677404) fulfilled the data requirement. These two DERs were not submitted, but according to the 4/10/92 and the 2/3/94 EFGWB memo, the half-life ranged from 11 to 19 days. This third study was done on an alkaline soil, not typical of NY conditions. The half-life was 22-26 days in this alkaline soil and had one major transformation product, Br2Ca.

**Aerobic Aquatic Metabolism:** In a marginally supplemental study (MRID 44977005) in a water-loam sediment from a ditch, the half-life in water was 6.0 days, in the sediment was 62 days and in the entire system was 25 days. In a water-sandy loam sediment, the half-life in water was <1 day, in the sediment was 131 days, and in the entire system was 120 days. The major transformation product found was Br2Ca.

**Anaerobic Soil Metabolism:** In an acceptable study (MRID 42114821), deltamethrin degraded with a half-life of 34 days in an alkaline sandy loam soil.

**Adsorption/Desorption:** In an acceptable study (MRID 42976501), deltamethrin was immobile. The Kocs ranged from 204,000 to 577,000.

**Transformation Adsorption/Desorption:** In a partially acceptable study (MRID 44977006), transformation product 3-phenoxybenzoic acid had an adsorption Koc of 287 in clay, 189 in silty clay loam, 105 in sandy loam and 50 in a clay loam. It had a desorption Koc of 374 in clay, 368 in silty clay loam, 165 in sandy loam and 70 in a clay loam.

**Aged Leaching:** In a study not designed to meet Subdivision N guidelines (MRID 42475907), deltamethrin was not mobile in silty clay or loamy sand soils. The transformation product 3-phenoxybenzoic acid was mobile in the silty clay and loamy sand soils.

**Transformation Aged Leaching:** In an acceptable study (MRID 42475908), the transformation product Br2Ca was very mobile in a sandy loam, a clay soil, a silty clay loam, a sandy loam and a clay loam.

**Terrestrial Field Dissipation:** In a study (MRID 42137505) on a Louisiana loam soil (ph 6.6, % OM 0.7) the half-life was 231 days. In a study (MRID 4211482) in a Minnesota loamy sand
(pH 6.6, %OM 2.17) the half-life was 14 days in the vegetated plot and 69 days in the bareground plot. In a study (MRID42883903) on a California loamy sand, the half-life was biphasic for the bareground plot, 5.7 days for phase 1, and 37 days for phase 2). The half-life for the vegetated plot was 40 days.

**Summary:** Given the very high Kocs and very short half-life, deltamethrin will not impact groundwater when used as labeled. **Therefore, staff have no objections to the registration of this product as labeled in all of New York State.**

**ECOLOGICAL EFFECTS**

The Department’s Bureau of Habitat staff reviewed the information submitted in support of the major change in labeling for Decis 0.2EC Insecticide. The following is the Bureau of Habitat staff’s technical review:

Deltamethrin was last reviewed by Bureau of Habitat staff in May 1998. In that assessment, 6 products labeled for control of ants and/or other pests in turf and on ornamentals were reviewed. Due to the very high toxicity of deltamethrin to marine/estuarine fish and invertebrates, Bureau of Habitat staff required a use buffer of 100 feet around coastal marshes and streams that drain directly into coastal marshes.

**USE PATTERN:**

Decis 0.2EC Insecticide (Decis) is labeled for control of numerous insect pests on field corn, sweet corn, and pop corn, sorghum, soybeans, sunflowers, cucurbit, fruiting, bulb, and root vegetables, canola, crambe, and rapeseed, and pome fruits. The combined area devoted to these crops in New York State is well over 1 million acres.

Single applications of 0.012 to 0.028 lbs active ingredient (ai) are made using water as the carrier. Application intervals and seasonal rate limits are as follows:

- **Field & pop corn-** 21 day intervals, 5 applications or 0.095 lbs ai/season,
- **Sweet corn-** applications may be made at 1 day intervals from tassel emergence until silk dry-down, thereafter applications are made when needed as determined by scouting, no more than 0.45 lbs. Ai may be applied/season,
- **Sorghum-** no interval stated, 0.045 lbs. Ai/season maximum,
- **Soybeans-** no interval stated, 0.1 lbs. Ai/season,
- **Bulb vegetables-** 5 day intervals, 5 applications or 0.112 lbs. ai/season maximum,
- **Cucurbits and root vegetables -** 3 day intervals, 0.168 lbs. and 0.14 Ai/season respectively.
- **Fruiting vegetables-** 5 day intervals, 0.168 lbs. Ai/season,
- **Pome fruits-** 7 day intervals, 0.042 lbs. Ai/season.

Decis may be applied before, during, or after planting. The label allows aerial and chemigation applications for all listed crops. In the section describing use precautions in the vicinity of aquatic areas, the label prohibits applications within 25 feet of surface waters by ground equipment or 150 feet by air. The label also recommends not cultivating within 10 feet of aquatic areas to allow growth of a vegetative filter strip.
AERIAL APPLICATIONS:
   A single application of Decis applied directly to the surface of a water body at the lowest
labeled rate results in a deltamethrin water concentration that exceeds the LC_{50} of all aquatic
organisms for which data was submitted. This far exceeds Bureau of Habitat criteria for
protection of aquatic resources. Therefore, the Department has determined that mitigative
measures will be necessary prior to registration of Decis in New York State. An acceptable
mitigative measure would be the addition of a New York State aerial application
prohibition statement to the final product label for Decis.

MARINE/ESTUARINE PROTECTIVE BUFFER:
   Previous Bureau of Habitat reviews of the active ingredient deltamethrin determined that
a 100 foot exclusionary use buffer around coastal marshes and the waters that drain directly into
coastal marshes is an appropriate mitigative measure for the protection of fish and aquatic
invertebrates in marine/estuarine areas. To facilitate the registration of Decis in New York
State, the Department will recommend that an advisory statement regarding buffers
around coastal marshes be added to the Decis label. Examples of appropriate statements
can be found on New York State stamped “accepted for registration” labeling for
numerous products containing deltamethrin.

HUMAN HEALTH EFFECTS:
   The New York State Department of Health reviewed the information submitted in support
of the major change in labeling for Decis 0.2EC Insecticide. The following is the Department of
Health staff’s technical review:

   Decis 0.2EC Insecticide was not very acutely toxic by the dermal or inhalation routes of
exposure. This pesticide product, however, was moderately toxic via acute oral exposure. In
addition, the Decis product caused irreversible eye damage and moderate skin irritation (tested on
rabbits). This product was determined not to be a skin sensitizer (tested on guinea pigs).

   Deltamethrin was moderately toxic to laboratory animals following acute oral exposure,
but was not very acutely toxic by the dermal and inhalation exposure routes. This active
ingredient was neither very irritating to animal eyes and skin nor was it a skin sensitizer. In
addition, deltamethrin was not very toxic in chronic oral laboratory animal studies, nor did it
cause oncogenic, genotoxic, teratogenic or reproductive effects. The USEPA Office of Pesticide
Programs (OPP) established a reference dose (RfD) for deltamethrin of 0.01 milligrams per
kilogram body weight per day (mg/kg/day) based on a no-observed-effect level (NOEL) of 1.0
mg/kg/day from a chronic feeding study in dogs (reduced body weight gain and chewing and
scratching of extremities) and an uncertainty factor of 100. This RfD has not yet been adopted by
the USEPA’s Integrated Risk Information System (IRIS). A current search of the toxicological
literature did not find any significant new information on the toxicity of deltamethrin.

   The USEPA established tolerances for deltamethrin residues in or on field corn (0.7 to 5.0
parts per million (ppm)); popcorn (5.0 ppm); sweet corn (0.03 to 15 ppm); cucurbit, fruiting,
root, tuberous and corm vegetables (0.2, 0.3, 0.2, and 0.04 ppm, respectively); rapeseed (0.2
ppm); sorghum (0.5 to 1.0 ppm); soybean (0.1 to 0.2 ppm); sunflower (0.1 ppm); and pome fruit
(0.2 ppm). The chronic population adjusted dose (cPAD) for deltamethrin is 0.0033 mg/kg/day
and is based on the RfD of 0.01 mg/kg/day and an additional uncertainty factor of 3 to account
for USEPA’s “[C]oncern for the qualitative evidence of increased susceptibility [to
developmental effects] observed in mice” (delayed ossification in fetuses at doses that did not
cause maternal effects). The USEPA estimated that chronic dietary exposures to deltamethrin
residues would be 3.0 percent of the cPAD for the general U.S. population, 4.7 percent for all
infants less than one-year old, 7.6 percent for children one to two years old and 7.1 percent for
children three to five years old. This chronic exposure analysis is based on anticipated residues from field trial data and percent crop treated information.

The USEPA conducted a risk assessment for occupational exposures to deltamethrin as used in Decis 0.2EC Insecticide. According to the USEPA, for deltamethrin “No dermal endpoint was selected because no systemic toxicity via the dermal route was seen at the limit dose and therefore a dermal risk assessment was not required.” For occupational handlers for all durations of inhalation exposure, the USEPA estimated margins of exposure (MOEs) of about 1,500 and greater. For these estimates, 100 percent absorption from inhalation exposure was assumed. The NOEL used for estimating the inhalation MOEs was 1.0 mg/kg/day from the chronic feeding study in dogs. Since no dermal toxicity endpoints were selected, the USEPA did not require an occupational risk assessment for potential post-application exposures of workers to deltamethrin. Generally, the USEPA considers MOEs of 100-fold or greater to provide adequate worker protection. In the case of deltamethrin, however, a MOE of 300-fold or greater may be a more appropriate basis of comparison, given the uncertainties for fetal effects as accounted for in the cPAD derivation.

There are no chemical specific federal or New York State drinking water/groundwater standards for deltamethrin. Based on its chemical structure, deltamethrin falls under the 50 microgram per liter New York State drinking water standard for an “unspecified organic contaminant” (10 NYCRR Part 5, Public Water Systems). If one uses the cPAD derived for the general population (0.0033 mg/kg/day) and procedures for deriving ambient water quality standards and guidelines based on non-oncogenic effects (6 NYCRR Part 702.5), a value of 23 micrograms per liter can be derived. This value could be used to derive a screening value for comparison to estimated groundwater and surface water concentrations.

The available information indicates that deltamethrin is not very toxic following chronic oral exposure nor does it appear to possess oncogenic, genotoxic, teratogenic or reproductive toxicological properties. In addition, both this active ingredient and the formulated product Decis 0.2EC Insecticide are not very acutely toxic by the dermal or inhalation routes of exposure, but following acute oral exposure, both were moderately toxic. The formulated product caused irreversible eye damage and moderate skin irritation to laboratory animals. To mitigate these adverse effects, the Decis product label requires workers to use protective eyewear and wear chemical-resistant gloves. In addition, the estimated risks to workers from use of the Decis product are within the range that is generally considered acceptable, and dietary exposure of the general public to deltamethrin residues on currently labeled crops is not expected to pose significant health risks. **Given the above, we do not object to the registration of Decis 0.2EC Insecticide in New York State.**

**REGISTRATION SUMMARY**

Based upon the technical reviews described above, the Department’s only unmitigated concern was the potential of deltamethrin to produce unacceptable levels of aquatic toxicity. To mitigate this concern, Bayer CropScience has added the statements “Do not apply Decis 0.2EC Insecticide by aerial application in New York State” and “In New York State, this product may not be applied within 100 feet of a coastal marsh or stream that drains directly into a coastal marsh” to the label for Decis 0.2EC Insecticide. **Therefore, the Department has registered Decis 0.2EC Insecticide (EPA Reg. No. 264-1007) for use in New York State. Decis 0.2EC Insecticide is classified as a “restricted use” pesticide by the USEPA.**

Please note the yes under the "restriction" column on the enclosed Certificate of Pesticide Registration and the “classified for restricted use in New York State” stamp on the enclosed
product label. As such, this product is restricted in its purchase, distribution, sale, use and possession in New York State. Furthermore, this product may **only** be purchased and used by a certified applicator in New York State.

The New York State Department of Environmental Conservation Regulations 6 NYCRR 326.3(a) state: "It shall be unlawful for any person to distribute, sell, offer for sale, purchase for the purpose of resale, or possess for the purpose of resale, any restricted pesticide unless said person shall have applied for, and been issued a commercial permit."

Should you require information to obtain a commercial permit, please contact the Pesticide Reporting and Certification Section, at (518) 402-8748.

The Pesticide Reporting Law (PRL) in the Environmental Conservation Law Article 33 Title 12 requires all certified commercial pesticide applicators to report information annually to the Department regarding each pesticide application they make. Commercial pesticide retailers are required to report all sales of restricted pesticide products and sales of general use pesticide products to private applicators for use in agricultural crop production. If no sales are made within New York State, a report still must be filed with the Department indicating this is the case.

If you need information relating to the Pesticide Reporting Law, or annual report forms, please visit the Department’s website at [http://www.dec.ny.gov/chemical/27506.html](http://www.dec.ny.gov/chemical/27506.html) or call (518) 402-8748.

Please note that a proposal by Bayer CropScience or any other registrant to register a product that contains deltamethrin, and whose labeled uses are likely to increase the potential for significant impact to humans, nontarget organisms, or the environment, would constitute a major change in labeled use pattern. Such an application must be accompanied by a new application fee and meet the requirements listed in Appendix 1.B. of “New York State Pesticide Product Registration Procedures” (September 2005). Such information, as well as forms, can be accessed at our website as listed in our letterhead. Please be aware that any unregistered product may **not** be sold, offered for sale, distributed, or used in New York State.

Sincerely,

Maureen P Serafini

Maureen P. Serafini
Director
Bureau of Pesticides Management

Enclosures
ecc: w/enc. - R. Mungari, NYS Dept of Ag & Markets
W. Smith, Cornell University, PSUR
DECIS® 0.2EC Insecticide


ACTIVE INGREDIENT: Percent by Weight
(1R,3R)-3(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylic acid (S)- alpha-cyano-3-phenoxy-benzyl ester ................. 2.86%*

INERT INGREDIENTS** ................................................................. 97.14%

*Equivalent to 0.2 lb. active ingredient per U.S. gallon.
**Contains petroleum distillates

TOTAL 100.0%


KEEP OUT OF REACH OF CHILDREN
DANGER PELIGRO

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 SWALLOWED:
• Immediately call a poison control center or doctor for treatment advice.
• Do not induce vomiting unless told to do so by a poison control center or doctor.
• Do not give liquid to the person.
• Do not give anything by mouth to an unconscious person.

IF IN EYES:
• Hold eye open and rinse slowly and gently with water for 15-20 minutes.
• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
• Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING:
• Take off contaminated clothing.
• Rinse skin immediately with plenty of water for 15-20 minutes.
• Call a poison control center or doctor for treatment advice.

IF INHALED:
• 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.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

DANGER
May be fatal if swallowed. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Harmful if absorbed through the skin or inhaled. Avoid breathing spray mist. Wear protective clothing, gloves, eyewear (goggles, face shield or safety glasses) as indicated under Personal Protective Equipment. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

Skin exposure may result in a sensation described as a tingling, itching, burning, or prickly feeling. Onset may occur immediately to 4 hours after exposure and may last 2 to 30 hours, without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

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 G on an EPA chemical resistance category selection chart.

Handlers who may be exposed to the dilute through application or other tasks must wear:
- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves such as barrier laminate or Viton®
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when mixing or loading, or cleaning equipment

Handlers who may be exposed to the concentrate through mixing, loading, application, or other tasks must wear:
- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate or Viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when mixing or loading, or cleaning equipment

ENGINEERING CONTROLS STATEMENT
When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4–6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product’s 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.

ENVIRONMENTAL HAZARDS
This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in areas near the application site. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

This pesticide is highly toxic to bees exposed to direct treatment. Do not apply it or allow it to drift to crops or weeds on which bees are actively foraging.

Notify State and/or Federal authorities and Bayer CropScience immediately if you observe any adverse environmental effects due to the use of DECIS® Insecticide.

NOTICE: It is a Federal offense to use any pesticide in a manner that results in the death of a member of an endangered species.

PHYSICAL AND CHEMICAL HAZARDS
Do not use or store near heat or open flame.
**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Do not store over 100°F or below 50°F.

**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.

**WHEN PACKAGED IN PLASTIC CONTAINERS:**

**Container Disposal:** Empty containers should be triple rinsed into the spray tank during the spray operation. Then offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill or by incineration; or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**WHEN PACKAGED IN SVR CONTAINERS:**

**Returnable Container Return Procedure:** Return the container clean (outside only) to the place of business from which the DECIS® Insecticide was purchased. This returnable container is the sole property of Bayer CropScience and must not be opened or discarded.

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**DIRECTIONS FOR USE**

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

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

Shake well before using.

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**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 over short-sleeved shirt and short pants
- Chemical-resistant gloves such as barrier laminate or Viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

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**APPLICATION**

Dilute DECIS® 0.2EC in water according to the directions shown below and apply to the target crops at the rates listed. Uniform coverage is essential. Consult your local or state agricultural authorities regarding economic thresholds and timing of application for specific pests. Under heavy pest populations use of the highest labeled rate is recommended.

Do not apply Decis 0.2 EC Insecticide by aerial application in New York State.

DECIS® 0.2EC may be applied before, during, or after planting. Use the higher labeled rate for soil incorporated applications.

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**RESISTANCE**

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, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, 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 for the best alternative method of control for your area.
TANK MIX RECOMMENDATIONS

DECIS® 0.2EC Insecticide may be applied in tank mixtures with other pesticides approved for use on the crops specified. Observe all restrictions and precautions which appear on the labels of those products. If compatibility with another product is not known perform a small-scale test to determine compatibility. When testing combination sprays for compatibility, first add DECIS® 0.2EC Insecticide to at least an equal amount of water in a clear container, mix thoroughly, and then add combination products to the mixture. Curdling, precipitation, greasing, layer formation or increased viscosity are symptoms of incompatibility. If any of these symptoms appear do not use the combination.

DECIS® 0.2EC Insecticide may also be applied in combination with additive products such as adjuvants, spreader stickers, penetrating agents, and drift control agents. Observe all restrictions and precautions which appear on the labels of those products. If compatibility with such a product is not known, a small scale test as described above should be performed.

COTTON

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<tr>
<th>Target Pests</th>
<th>Rate</th>
<th>Remarks</th>
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<td></td>
<td>Pounds AI/A</td>
<td>Fl. Oz./A</td>
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<tr>
<td>Cotton fleahoppers</td>
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<td>Cotton leafperforator</td>
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<td>Leafhoppers</td>
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<td>Threecornered alfalfa hopper</td>
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<td>Thrips</td>
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<tr>
<td>Armyworm (all species)²,³</td>
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<td>Aphids¹</td>
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<td>Boll weevil</td>
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<td>Cabbage looper³</td>
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<td>European Corn borer</td>
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<td>Grasshoppers</td>
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<td>Mites¹</td>
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<td>Pink bollworm</td>
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<td>Western plant Bug²</td>
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Minimum gallonage requirements:
For aerial application use a minimum of 2 gallons of water per acre (3 gallons in Arizona). For ground applications, use a minimum of 5 gallons of water per acre for thorough coverage of the foliage.

Optimum gallonage requirements:
For aerial applications under hot, dry environmental conditions or when the crop canopy is dense, gallonage requirements may need to be increased to 3 to 5 gallons of water plus crop oil concentrate at 1 pint to 1 quart per acre. Ground application gallonage should be increased to a minimum of 10 gallons per acre obtain thorough coverage.

NOTES for Use on Cotton:
1. DO NOT apply more than 192 fluid ounces of DECIS® 0.2EC per acre (0.3 lb ai/A) per growing season.
2. DO NOT make more than 10 applications of DECIS® 0.2EC.
3. Allow 5 days between successive applications of DECIS® 0.2EC.
4. DO NOT apply DECIS® 0.2EC within 21 days of harvest.
5. DO NOT apply this product as a ULV application. Dilute the desired amount of DECIS® 0.2EC so that at least 2 gallons of spray solution per acre is applied.

¹ Suppression only.
² See resistance statement under the “Directions For Use” section.
³ For best control apply to 1⁴ and 2⁵ instar larvae.
# CORN, FIELD AND POP

<table>
<thead>
<tr>
<th>Target Pests</th>
<th>Rate</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pounds Ai/A</td>
<td>Fl. Oz/A</td>
</tr>
<tr>
<td>Cutworms</td>
<td>0.012</td>
<td>7.7</td>
</tr>
<tr>
<td>Flea beetles</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>Grasshoppers</td>
<td>0.018</td>
<td>11.5</td>
</tr>
<tr>
<td>Aphids¹</td>
<td>0.018</td>
<td>11.5</td>
</tr>
<tr>
<td>Armyworm (all species)²,³</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>Chinch bugs</td>
<td>0.022</td>
<td>14.1</td>
</tr>
<tr>
<td>Click beetle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corn earworm²,³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corn rootworm (adult)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>European corn borer³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Japanese beetle (adult)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>June beetle (adult)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Masked chafer (adult)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southern corn borer³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southwestern corn borer³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stalk borer³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stink bugs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Webworm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Minimum gallonage requirements:**
For aerial applications, use a minimum of 2 gallons of water per acre. For ground applications, use a minimum of 5 gallons of water per acre for thorough coverage of the foliage.

**NOTES for Use on Corn:**

1. DO NOT apply more than 60.8 fluid ounces of DECIS® 0.2EC per acre (0.095 lb ai/A) on field corn in one growing season.
2. DO NOT make more than 5 applications of DECIS® 0.2EC per acre per season.
3. Allow 21 days between successive applications of DECIS® 0.2EC.
4. DO NOT apply DECIS® 0.2EC within 21 days of harvest of field corn for grain or fodder, or within 12 days of cutting or grazing field corn for forage.

¹ Suppression only.
² See resistance statement under the “Directions For Use” section.
³ Apply to early instar larvae prior to boring into the ear or stalk.
## CORN, SWEET

<table>
<thead>
<tr>
<th>Target Pests</th>
<th>Rate</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pounds AIA/</td>
<td>Fl. Oz/A</td>
</tr>
<tr>
<td>Cutworms</td>
<td>0.012</td>
<td>7.7</td>
</tr>
<tr>
<td>Flea beetles</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>Grasshoppers</td>
<td>0.018</td>
<td>11.5</td>
</tr>
<tr>
<td>Aphids(^1)</td>
<td>0.018</td>
<td>11.5</td>
</tr>
<tr>
<td>Armyworm (all species)(^2,3)</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>Chinch bugs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Click beetle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corn earworm(^2,3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corn rootworm (adult)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>European corn borer(^3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Japanese beetle (adult)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>June beetle (adult)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Masked chafer (adult)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southern corn borer(^3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southwestern corn borer(^3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stalk borer(^3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stink bugs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Webworm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(^1\) Suppression only.

\(^2\) See resistance statement under the “Directions For Use” section.

\(^3\) Apply to early instar larvae prior to boring into ear or stalk.

NOTES for Use on Sweet Corn:

1. DO NOT apply more than 288 fluid ounces of DECIS\(^\circ\) 0.2EC per acre (0.45 lb ai/A) on sweet corn in one growing season.

2. DO NOT apply DECIS\(^\circ\) 0.2EC within 24 hours of harvest.

3. DO NOT graze livestock in treated areas or cut treated crops for feed within 24 hours of the last application to a fresh / green crop.

4. DO NOT feed treated stover to livestock within 21 days of application.
<table>
<thead>
<tr>
<th>Target Pests</th>
<th>Rate</th>
<th>Pounds A.i./A</th>
<th>Fl. Oz./A</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn earworm (also known as sorghum headworm)</td>
<td>0.012 to 0.018</td>
<td>7.7</td>
<td>11.5</td>
<td>Minimum gallonage requirements: For aerial applications, use a minimum of 2 gallons of water per acre. For ground applications, use a minimum of 5 gallons of water per acre for thorough coverage of the foliage.</td>
</tr>
<tr>
<td>Cutworms</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flea beetles</td>
<td>0.015 to 0.022</td>
<td>9.6</td>
<td>14.1</td>
<td></td>
</tr>
<tr>
<td>Grasshoppers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sorghum webworm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aphids¹</td>
<td>0.015 to 0.022</td>
<td>9.6</td>
<td>14.1</td>
<td></td>
</tr>
<tr>
<td>Armyworm (all species)²³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chinch bug</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corn rootworm beetles (adult)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>European corn borer³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lesser corn stalk borer³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mexican rice borer³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southern corn borer³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stalk borer³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sugarcane borer³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sorghum midge</td>
<td>0.018 to 0.022</td>
<td>11.5</td>
<td>14.1</td>
<td></td>
</tr>
<tr>
<td>Stink bugs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ Suppression only.

² See resistance statement under the “Directions For Use” section.

³ Apply to early instar larvae prior to boring into the stalk.
<table>
<thead>
<tr>
<th>Target Pests</th>
<th>Rate</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pounds AI/A</td>
<td>FL. OZ/A</td>
</tr>
<tr>
<td>Corn earworm$^3$</td>
<td>0.012</td>
<td>7.7</td>
</tr>
<tr>
<td>Cutworms</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>Green cloverworm</td>
<td>0.018</td>
<td>11.5</td>
</tr>
<tr>
<td>Leafhoppers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three-cornered alfalfa hopper</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Velvetbean caterpillar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Armyworm (all species)$^{2,3}$</td>
<td>0.018</td>
<td>11.5</td>
</tr>
<tr>
<td>Bean leaf beetle</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>Cabbage looper$^3$</td>
<td>0.022</td>
<td>14.1</td>
</tr>
<tr>
<td>Click beetle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corn rootworm beetles (adult)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>European corn borer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grape colaspis (adult)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grasshoppers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Japanese beetle (adult)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Masked chafer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mexican bean beetle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saltmarsh caterpillar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soybean aphid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soybean looper$^3$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stink bugs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tarnished plant bug$^2$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tobacco budworm$^{2,3}$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Webworm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yellow Woollybear</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Minimum gallonage requirements:**
For aerial applications, use a minimum of 2 gallons of water per acre. For ground applications, use a minimum of 5 gallons of water per acre for thorough coverage of the foliage.

**Optimum gallonage requirements:**
For aerial applications under hot, dry environmental conditions or when the crop canopy is dense, gallonage requirements may need to be increased to 3 – 5 gallons of water plus crop oil concentrate at 1 pint to 1 quart per acre. Ground application gallonage should be increased to a minimum of 10 gallons per acre to obtain thorough coverage.

**NOTES for use on Soybeans:**
1. DO NOT apply more than 64.0 fluid ounces of DECIS$^{0.2EC}$ per acre (0.1 lb ai/A) on soybeans in one growing season.
2. DO NOT apply DECIS$^{0.2EC}$ within 21 days of harvest.
3. DO NOT allow livestock to graze treated forage, or feed treated hay to livestock.

$^2$ See resistance statement under the “Directions For Use” section.
$^3$ For best control apply to 1$^{st}$ and 2$^{nd}$ instar larvae.
## SUNFLOWERS
(Except in California)

<table>
<thead>
<tr>
<th>Target Pests</th>
<th>Rate</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pounds AI/A</td>
<td>Fl. Oz/A</td>
</tr>
<tr>
<td>Banded sunflower moth</td>
<td>0.012</td>
<td>7.7</td>
</tr>
<tr>
<td>Cabbage looper(^3)</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>Corn earworm(^3)</td>
<td>0.018</td>
<td>11.5</td>
</tr>
<tr>
<td>Cutworms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grasshoppers (except lubber grasshoppers)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leafhoppers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potato flea beetle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sunflower beetle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sunflower seed weevil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sunflower stem weevil (moth)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sunflower maggot</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sunflower moth</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Minimum Gallonage Requirements:
For aerial applications use a minimum of 2 gallons of water per acre. For ground applications use a minimum of 5 gallons of water per acre for thorough coverage of the foliage.

**NOTES for Use on Sunflowers:**
1. DO NOT apply more than 28.8 fluid ounces of DECIS\(^{\circledR}\) 0.2EC per acre (0.045 lb ai/acre) on sunflowers in one growing season.
2. DO NOT apply within 21 days of harvest for sunflowers.
3. DO NOT graze or feed treated sunflower foliage to livestock.
4. DO NOT apply this product to sunflowers as an Ultra Low Volume (ULV) spray.

---

## BULB VEGETABLES
Includes all members of Crop Group 3 such as:
(garlic, leeks, onions, shallots)

<table>
<thead>
<tr>
<th>Target Pests</th>
<th>Rate</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pounds AI/A</td>
<td>Fl. Oz/A</td>
</tr>
<tr>
<td>Cutworms</td>
<td>0.012</td>
<td>7.7</td>
</tr>
<tr>
<td></td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td></td>
<td>0.018</td>
<td>11.5</td>
</tr>
<tr>
<td>Stink bugs</td>
<td>0.018</td>
<td>11.5</td>
</tr>
<tr>
<td></td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td></td>
<td>0.028</td>
<td>17.9</td>
</tr>
</tbody>
</table>

Minimum Gallonage Requirements:
For aerial applications use a minimum of 2 gallons of water per acre. For ground applications use sufficient water to obtain full coverage of foliage.

**NOTES for Use on Bulb Vegetables:**
1. DO NOT apply more than 71.7 fluid ounces of DECIS\(^{\circledR}\) 0.2EC per acre (0.112 lb ai/A) on bulb vegetables in one growing season.
2. Allow 5 days between applications of DECIS\(^{\circledR}\) 0.2EC.
3. Do not apply within 1 day of harvest.

\(^3\) For best control apply to 1\(^{st}\) and 2\(^{nd}\) instar larvae.
## CUCURBIT VEGETABLES
Includes all members of Crop Group 9 such as:
(cantaloupes, chayote, Chinese waxgourd, citron melon, cucumber, gherkin, gourds, Momordica species, muskmelon, pumpkin, squash, watermelon)

<table>
<thead>
<tr>
<th>Target Pests</th>
<th>Rate</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pounds AI/A</td>
<td>Fl. Oz./A</td>
</tr>
<tr>
<td>Cabbage looper</td>
<td>0.012</td>
<td>7.7</td>
</tr>
<tr>
<td>Cutworms</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>Leafhoppers</td>
<td>0.028</td>
<td>17.9</td>
</tr>
<tr>
<td>Armyworm (all species)²,³</td>
<td>0.018</td>
<td>11.5</td>
</tr>
<tr>
<td>Colorado potato beetle²</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>Corn earworm</td>
<td>0.028</td>
<td>17.9</td>
</tr>
<tr>
<td>Cucumber beetles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diamondback moth (larvae)²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flea beetles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grasshoppers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Green peach aphid¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leafminers²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melonworm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pickleworm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stink bugs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tarnished plant bug²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tobacco budworm²,³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tomato pinworm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vegetable weevil (adult)¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western plant bug²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Whitefly (adult)¹</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Minimum Gallonage Requirements:
For aerial applications use a minimum of 2 gallons of water per acre. For ground applications use sufficient water to obtain full coverage of foliage.

### NOTES for Use on Cucurbit Vegetables:
1. DO NOT apply more than 107.5 fluid ounces of DECIS® 0.2EC per acre (0.168 lb ai/A) on cucurbit vegetables in one growing season.
2. Allow 3 days between applications of DECIS® 0.2EC.
3. DO NOT apply within 3 days of harvest.

¹ Suppression only.
² See resistance statement under the “Directions For Use” section.
³ For best control apply to 1st and 2nd instar larvae.
FRUITING VEGETABLES
Includes all members of Crop Group 8 such as:
(eggplant, groundcherry, pepinos, peppers, tomatillo, tomato)

<table>
<thead>
<tr>
<th>Target Pests</th>
<th>Rate</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pounds Al/A</td>
<td>Fl. Oz./A</td>
</tr>
<tr>
<td>Cabbage looper</td>
<td>0.012</td>
<td>7.7</td>
</tr>
<tr>
<td>Leafhoppers</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>Tomato hornworm</td>
<td>0.028</td>
<td>17.9</td>
</tr>
<tr>
<td>Aphids¹</td>
<td>0.018</td>
<td>11.5</td>
</tr>
<tr>
<td>Armyworm (all species)²,³</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>Colorado potato beetle²</td>
<td>0.028</td>
<td>17.9</td>
</tr>
<tr>
<td>Cucumber beetle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cutworms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diamondback moth²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>European corn borer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flea beetles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Imported cabbageworm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leafminers¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pepper weevil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stink bugs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tarnished plant bug²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thrips</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tomato fruitworm (corn earworm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tomato pinworm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Variegated cutworm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Whitefly¹</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Minimum Gallonage Requirements:
For aerial applications use a minimum of 2 gallons of water per acre. For ground applications use sufficient water to obtain full coverage of foliage.

NOTES for Use on Fruiting Vegetables:
1. DO NOT apply more than 107.5 fluid ounces of DECIS® 0.2EC per acre (0.168 lb ai/A) on fruiting vegetables in one growing season.
2. Allow 5 days between applications of DECIS® 0.2EC.
3. DO NOT apply within 1 day of harvest.

¹ Suppression only.
² See resistance statement under the “Directions For Use” section.
³ For best control apply to 1st and 2nd instar larvae.
## GLOBE ARTICHOKE

<table>
<thead>
<tr>
<th>Target Pests</th>
<th>Rate</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pounds AI/A</td>
<td>Fl. Oz./A</td>
</tr>
<tr>
<td>Aphids(^1)</td>
<td>0.018</td>
<td>11.5</td>
</tr>
<tr>
<td>Armyworm (all species)(^2,3)</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>Cabbage looper(^3)</td>
<td>0.028</td>
<td>17.9</td>
</tr>
<tr>
<td>Cribrate weevil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leafminers(^1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lygus bug (plant bug)(^1,2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pale striped flea beetles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plume moth</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Probas bug</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Suppression only.
2 See resistance statement under the “Directions For Use” section.
3 For best control apply to 1\(^{st}\) and 2\(^{nd}\) instar larvae.
ROOT VEGETABLES (EXCEPT SUGARBEET)
Includes all members of Crop Subgroup 1B such as:
(carrot, celeriac, chervil (turnip-rooted), chicory, edible burdock, garden beet, ginseng, horseradish, parsley (turnip-rooted), parsnip, radish, oriental radish, rutabaga, salsify, black salsify, spanish salsify, skirret, turnip)

TUBEROUS and CORM VEGETABLES
Includes all members of Crop Subgroup 1C such as:
(potato, sweet potato, arracacha, arrowroot, chinese artichoke, jerusalem artichoke, edible canna, bitter and sweet cassava, chayote (root), chufa, dasheen, ginger, leren, tanier, turmeric, yam bean, true yam)

<table>
<thead>
<tr>
<th>Target Pests</th>
<th>Rate</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pounds Al/A</td>
<td>Fl. Oz/A</td>
</tr>
<tr>
<td>Cabbage looper</td>
<td>0.012</td>
<td>7.7</td>
</tr>
<tr>
<td>Cutworms</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>Pea aphid</td>
<td>0.028</td>
<td>17.9</td>
</tr>
<tr>
<td>Armyworm (all species)</td>
<td>0.018</td>
<td>11.5</td>
</tr>
<tr>
<td>Colorado potato beetle</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>European corn borer</td>
<td>0.028</td>
<td>17.9</td>
</tr>
<tr>
<td>Flea beetles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Green peach aphid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leafhoppers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lygus bug (plant bug)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tarnished plant bug</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Minimum Gallonage Requirements:
For aerial applications use a minimum of 2 gallons of water per acre. For ground applications use sufficient water to obtain full coverage of foliage.

NOTES for Use on Root, Tuberous, and Corm Vegetables:
1. DO NOT apply more than 89.6 fluid ounces of DECIS® 0.2EC per acre (0.14 lb ai/A) on root, tuberous and corm vegetables in one growing season.
2. Allow 3 days between applications of DECIS® 0.2EC.
3. DO NOT apply within 3 days of harvest.
4. Except for radishes, DO NOT apply to root, tuberous, and corm vegetables whose tops or leaves are to be harvested for human or livestock consumption.

1 Suppression only.
2 See resistance statement under the “Directions For Use” section.
3 For best control apply to 1st and 2nd instar larvae.
## CANOLA, CRAMBE, RAPESEED

<table>
<thead>
<tr>
<th>Target Pests</th>
<th>Rate</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pounds A/A</td>
<td>Fl. OZ/A</td>
</tr>
<tr>
<td>Beet Armyworm2,3</td>
<td>.009</td>
<td>5.8</td>
</tr>
<tr>
<td>Bertha Armyworm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cabbage seed pod weevil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clover Cutworm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diamondback moth</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flea Beetle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grasshopper</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lygus bug (plant bug)2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

Minimum Gallonage Requirements:
For aerial applications use a minimum of 2 gallons of water per acre. For ground applications use a minimum of 5 gallons of water per acre for thorough coverage of the foliage.

NOTES for Use on Canola, Crambe and Rapeseed:
1. DO NOT apply more than 11.6 fluid ounces of DECIS® 0.2EC per acre (0.018 lb ai/A) on Canola, Crambe, or Rapeseed in one growing season.
2. Allow 7 days between applications of DECIS® 0.2EC.
3. DO NOT apply DECIS® 0.2EC within 7 days of harvest.

2 See resistance statement under the “Directions For Use” section.
3 For best control apply to 1st and 2nd instar larvae.

### TREE NUTS

Includes all members of Crop Group 14 such as:
(almonds, beech nut, Brazil nut, butternut, cashew, chestnut, chinquapin, filbert, hickory nut, macadamia nut, pecan, pistachio, walnut)

<table>
<thead>
<tr>
<th>Target Pests</th>
<th>Rate</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pounds A/A</td>
<td>Fl. OZ/A</td>
</tr>
<tr>
<td>Aphids1</td>
<td>0.02</td>
<td>12.8</td>
</tr>
<tr>
<td>Codling moth</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>Filbertworm</td>
<td>0.033</td>
<td>21.1</td>
</tr>
<tr>
<td>Hickory shuckworm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leafhoppers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Navel orangeworm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Obliquebanded leaf roller</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peach twig borer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pecan nut casebearer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pecan weevil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stink bugs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tarnished plant bug2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walnut husk fly</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western peach borer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Minimum Gallonage Requirements:
For aerial applications use a minimum of 10 gallons of water per acre. For ground applications, use a minimum of 25 gallons of water per acre for thorough coverage of the foliage.

NOTES for Use on Tree Nuts:
1. DO NOT apply more than 105.6 fluid ounces of DECIS® 0.2EC per acre (0.165 lb ai/A) on tree nuts in one growing season.
2. Allow 7 days between applications of DECIS® 0.2EC.
3. DO NOT apply within 21 days of harvest.

1 Suppression only.
2 See resistance statement under the “Directions For Use” section.
### POME FRUITS
Includes all members of Crop Group 11 such as:
(apple, crabapple, loquat, mayhaw, pear, oriental pear, quince)

<table>
<thead>
<tr>
<th>Target Pests</th>
<th>Rate</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apple leafroller</td>
<td>0.011 to 0.022</td>
<td>For applications to boring insects, apply prior to the insects entering the wood or fruit. Insects contained within plant tissue may not be controlled.</td>
</tr>
<tr>
<td>Apple leaf miner</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apple maggot</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Codling moth</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Green fruitworm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Obliquebanded leafroller</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oriental fruit moth</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plum curculio</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potato leafhopper</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Redbanded leafroller</td>
<td></td>
<td></td>
</tr>
<tr>
<td>San Jose scale (crawlers)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spotted tentiform leafminer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tarnished plant bug¹</td>
<td>0.022</td>
<td></td>
</tr>
<tr>
<td>Western plant bug²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White apple leafhopper</td>
<td>0.022</td>
<td></td>
</tr>
<tr>
<td>Aphids¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>European apple sawfly</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lesser appleworm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pear psylla¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pear sawfly</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Periodic cicada</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stink bugs</td>
<td>0.022</td>
<td></td>
</tr>
</tbody>
</table>

¹ Suppression only.
² See resistance statement under the “Directions For Use” section.
RATE CONVERSION CHART

<table>
<thead>
<tr>
<th>FLUID OUNCES PER ACRE</th>
<th>LBS AI PER ACRE</th>
<th>ACRES PER GALLON</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.8</td>
<td>0.009</td>
<td>22</td>
</tr>
<tr>
<td>8</td>
<td>0.013</td>
<td>16</td>
</tr>
<tr>
<td>9</td>
<td>0.014</td>
<td>14</td>
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<tr>
<td>10</td>
<td>0.016</td>
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<tr>
<td>12</td>
<td>0.019</td>
<td>10.5</td>
</tr>
<tr>
<td>14</td>
<td>0.022</td>
<td>9</td>
</tr>
<tr>
<td>16</td>
<td>0.025</td>
<td>8</td>
</tr>
<tr>
<td>18</td>
<td>0.028</td>
<td>7</td>
</tr>
<tr>
<td>20</td>
<td>0.031</td>
<td>6.4</td>
</tr>
<tr>
<td>21.1</td>
<td>0.033</td>
<td>6.1</td>
</tr>
</tbody>
</table>

RATE CONVERSION CHART FOR HIGH VOLUME APPLICATIONS

<table>
<thead>
<tr>
<th>DESIRED FLUID OUNCES OF PRODUCT PER ACRE</th>
<th>25 GPA</th>
<th>50 GPA</th>
<th>100 GPA</th>
<th>150 GPA</th>
<th>200 GPA</th>
<th>250 GPA</th>
<th>500 GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.8</td>
<td>23.2</td>
<td>11.6</td>
<td>5.8</td>
<td>3.9</td>
<td>2.9</td>
<td>2.3</td>
<td>1.2</td>
</tr>
<tr>
<td>8</td>
<td>32</td>
<td>16</td>
<td>8</td>
<td>5.3</td>
<td>4</td>
<td>3.2</td>
<td>1.6</td>
</tr>
<tr>
<td>9</td>
<td>36</td>
<td>18</td>
<td>9</td>
<td>6.0</td>
<td>4.5</td>
<td>3.6</td>
<td>1.8</td>
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<td>40</td>
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<td>6.7</td>
<td>5</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>48</td>
<td>24</td>
<td>12</td>
<td>8.0</td>
<td>6</td>
<td>4.8</td>
<td>2.4</td>
</tr>
<tr>
<td>14</td>
<td>56</td>
<td>28</td>
<td>14</td>
<td>9.3</td>
<td>7</td>
<td>5.6</td>
<td>2.8</td>
</tr>
<tr>
<td>16</td>
<td>64</td>
<td>32</td>
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<td>10.7</td>
<td>8</td>
<td>6.4</td>
<td>3.2</td>
</tr>
<tr>
<td>18</td>
<td>72</td>
<td>36</td>
<td>18</td>
<td>12.0</td>
<td>9</td>
<td>7.2</td>
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<td>80</td>
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<td>13.3</td>
<td>10</td>
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<td>4</td>
</tr>
<tr>
<td>21.1</td>
<td>84.4</td>
<td>42.2</td>
<td>21.1</td>
<td>14.1</td>
<td>10.6</td>
<td>8.4</td>
<td>4.2</td>
</tr>
</tbody>
</table>

CHEMIGATION USE DIRECTIONS AND PRECAUTIONS

SPRINKLER IRRIGATION APPLICATION

Apply DECIS® 0.2EC Insecticide at rates and timing described elsewhere in this label. As local recommendations differ, consult your local State Extension Service or other local experts for recommendations on adjuvant or diluent types, rates, and mixing instructions. These recommendations should be proven, through university and extension field trials, to be effective with DECIS® 0.2EC Insecticide applied by chemigation.

Check the irrigation system to ensure uniform application of water to all areas. Thorough coverage of foliage is required for good control. Good agitation in the pesticide supply tank should be maintained prior to and during the entire application period.

Apply by injecting the recommended rate of DECIS® 0.2EC Insecticide into the irrigation system using a metering device that will introduce a constant flow and by distributing the product to the target area in 0.1 to 0.2 inches per acre of irrigation water. In general, use the least amount of water required for proper distribution and coverage. It is recommended that the product be injected into the main irrigation line ahead of a right angle turn in the line to ensure adequate dispersion or mixing in the irrigation water. Once the application is completed, flush the entire irrigation and injection system with clean water before stopping the system.

In addition to the above recommendations, if application is being made during a normal irrigation set of a stationary sprinkler, the recommended rate of DECIS® 0.2EC Insecticide for the area covered should be injected into the system only during the end of the irrigation set for sufficient time to provide adequate coverage and product distribution.

NOTE: Bayer CropScience does not recommend connecting chemigation systems 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.
USE PRECAUTIONS – SPRINKLER IRRIGATION APPLICATION

- Apply this product only through sprinkler (including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set, or hand move) irrigation system(s). Do not apply this product through any other type of irrigation system.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.
- If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- 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.
- The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Do not apply through chemigation systems connected to public water systems.

SUPPLEMENTAL SPRAY RECOMMENDATIONS AND PRECAUTIONS

- All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.
- **For cotton**, do not make more than a total of 10 synthetic pyrethroid applications (of one product or combination of products) to a crop in one growing season. Synthetic pyrethroid products include AMBUSH®, AMMO® 2.5EC, ASANA® XL, BAYTHROID 2, CAPTURE® 2EC, CYMBUSH, DANITOL 2.4EC, DECIS®, FURY™ 0.2EC, KARATE®, MUSTANG, POUNCE® 3.2EC, SCOUT X-TRA®, and SynerGin™ 2.

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.

- Do not apply by ground within 25 feet or by air within 150 feet of lakes; reservoirs, rivers; permanent streams, marshes, or natural ponds; estuaries and commercial fish farm ponds.
- In New York State, this product may not be applied within 100 feet of a coastal marsh or stream that drains directly into a coastal marsh.
- For aerial applications, 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 wing span or rotor diameter.
- Use the largest droplet size consistent with pest control. 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 height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.
- Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph.
- Do not apply Decis 0.2 EC Insecticide by aerial application in New York State.
- Risk of exposure to aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.
- Do not cultivate within 10 feet of the aquatic area so as to allow growth of vegetative filter strip.
- Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas.
- Do not make aerial or ground applications during 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.

**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 must 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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