

264-1011

7/30/2013

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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

JUL 30 2013

Sherry Movassaghi, PhD  
Bayer CropScience  
P.O. Box 12014  
Research Triangle Park, NC 27709

Subject: Label Amendment – Reduce Number of Applications in Cotton  
D#: 477164

EPA Registration No. 264-1011  
Decis 1.5 EC Insecticide

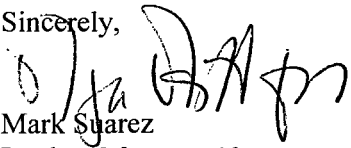
Your submission dated March 27, 2013

Dear Dr. Movassaghi:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), 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 letter, please contact Olga Odiott at (703) 308-9369.

Sincerely,

  
Mark Suarez  
Product Manager 13  
Insecticide Branch  
Registration Division (7505P)

Enclosure

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**RESTRICTED USE PESTICIDE**

**DUE TO ACUTE TOXICITY AND TOXICITY TO FISH AND AQUATIC ORGANISMS**  
For retail sale to and use only by certified applicators or persons under their supervision  
and only for those uses covered by the certified applicator's certification.

Group **3** Insecticide

# DECIS® 1.5EC Insecticide

For Insect Control on Bulb Vegetables, Cucurbit Vegetables, Fruiting Vegetables, Root Vegetables (except Sugarbeets), Tuberos and Corm Vegetables, Pome Fruits, Tree Nuts, Canola and Rapeseed, Cotton, Field Corn, Popcorn, Sweet Corn, Soybeans, Sorghum and Sunflowers.

ACTIVE INGREDIENT:	Percent by Weight
(1R,3R)-3(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylic acid (S)- alpha-cyano-3-phenoxy-benzyl ester	16.6%*
OTHER INGREDIENTS**	83.4%
<b>TOTAL:</b>	<b>100.0%</b>

\*Equivalent to 1.5 lb. active ingredient per U.S. gallon.

\*\*Contains petroleum distillates

E.P.A. Reg. No. 264-1011

E.P.A. Est. No.



**KEEP OUT OF REACH OF CHILDREN**  
**DANGER POISON**  
**PELIGRO - VENENO**



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)

**ACCEPTED**  
JUL 30 2013  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
Registered under  
EPA Reg. No. 264-1011

### FIRST AID

<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<p><b>For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577.</b></p> <p><b>Have the product container or label with you when calling a poison control center or doctor or going for treatment.</b></p>	
<p><b>NOTE TO PHYSICIAN:</b> Probable mucosal damage may contraindicate the use of gastric lavage.</p>	

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

##### DANGER - POISON

Fatal if swallowed. Corrosive. Causes irreversible eye damage and skin burns. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not get in eyes, on skin, or on clothing. Wear face shield or goggles. Wear protective clothing and chemical resistant gloves. Harmful if absorbed through the skin or inhaled. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse.

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

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## 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.

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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. Do not apply when wind speed favors drift beyond the area intended for treatment. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Shake well before using.

### 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

### APPLICATION

Dilute DECIS® 1.5EC 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 1.5 EC Insecticide by aerial application in New York State.

DECIS 1.5EC may be applied before, during, or after planting. Use the higher labeled rate for soil incorporated applications.

### 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 1.5EC 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 1.5EC 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 1.5EC 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.

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### COTTON

Target Pests	Rate		Remarks
	Pounds AI/A	Fl. Oz./A	
Cotton fleahoppers Cotton leafperforator Cotton leafworm Cutworm Leafhoppers Threecornered alfalfa hopper Thrips	0.013 to 0.019	1.1 to 1.6	<p><b>Minimum Gallonage Requirements:</b> 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.</p>
Armyworm (all species) <sup>2, 3</sup> Aphids <sup>1</sup> Boll weevil Cabbage looper <sup>3</sup> Cotton bollworm European Corn borer Grasshoppers Mites <sup>1</sup> Pink bollworm Saltmarsh caterpillar Soybean looper <sup>3</sup> Stink bugs Tarnished plant bug <sup>2</sup> Tobacco budworm <sup>2</sup> Whitefly (adult) <sup>1</sup> Western plant Bug <sup>2</sup>	0.019 to 0.030	1.6 to 2.6	<p><b>Optimum Gallonage Requirements:</b> 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.</p> <p><b>NOTES for Use on Cotton:</b></p> <ol style="list-style-type: none"> <li>DO NOT apply more than 26.0 fluid ounces of DECIS 1.5EC per acre (0.3 lb ai/A) per growing season.</li> <li>DO NOT make more than 6 applications of DECIS 1.5EC.</li> <li>Allow 5 days between successive applications of DECIS 1.5EC.</li> <li>DO NOT apply DECIS 1.5EC within 21 days of harvest.</li> <li>DO NOT apply this product as a ULV application. Dilute the desired amount of DECIS 1.5EC so that at least 2 gallons of spray solution per acre is applied.</li> </ol>
<p><sup>1</sup> Suppression only.  <sup>2</sup> See resistance statements under the "Directions For Use" section.  <sup>3</sup> For best control apply to 1<sup>st</sup> and 2<sup>nd</sup> instar larvae.</p>			

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### CORN, FIELD AND POP

Target Pests	Rate		Remarks
	Pounds A/A	Fl. Oz./A	
Cutworms Flea beetles Grasshoppers	0.012 to 0.018	1.0 to 1.5	<b>Minimum Gallonage Requirements:</b> 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.
Aphids <sup>1</sup> Armyworm (all species) <sup>2,3</sup> Chinch bugs Click beetle Corn earworm <sup>2,3</sup> Corn rootworm (adult) European corn borer <sup>3</sup> Japanese beetle (adult) June beetle (adult) Masked chafer (adult) Southern corn borer <sup>3</sup> Southwestern corn borer <sup>3</sup> Stalk borer <sup>3</sup> Stink bugs Webworm	0.018 to 0.022	1.5 to 1.9	
<sup>1</sup> Suppression only. <sup>2</sup> See resistance statement under the "Directions For Use" section. <sup>3</sup> Apply to early instar larvae prior to boring into the ear or stalk.			

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### CORN, SWEET

Target Pests	Rate		Remarks
	Pounds A/A	Fl. Oz./A	
Cutworms Flea beetles Grasshoppers	0.012 to 0.018	1.0 to 1.5	<p><b>Application Interval:</b></p> <p>To protect the tassel, silk and ear, a 1 day interval may be used from tassel emergence to silk dry-down. Once silks have dried and egg laying has stopped, spray intervals may be extended as indicated by scouting.</p> <p><b>Minimum Gallonage Requirements:</b></p> <p>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. As the crop canopy closes, water volume should be increased to a minimum of 5 gallons per acre for aerial applications and a minimum of 10 gallons of water per acre for ground applications to insure thorough coverage.</p> <p><b>NOTES for Use on Sweet Corn:</b></p> <ol style="list-style-type: none"> <li>DO NOT apply more than 38.4 fluid ounces of DECIS 1.5EC per acre (0.45 lb ai/A) on sweet corn in one growing season.</li> <li>DO NOT apply DECIS 1.5EC within 24 hours of harvest.</li> <li>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.</li> <li>DO NOT feed treated stover to livestock within 21 days of application.</li> </ol>
Aphids <sup>1</sup> Armyworm (all species) <sup>2,3</sup> Chinch bugs Click beetle Corn earworm <sup>2,3</sup> Corn rootworm (adult) European corn borer <sup>3</sup> Japanese beetle (adult) June beetle (adult) Masked chafer (adult) Southern corn borer <sup>3</sup> Southwestern corn borer <sup>3</sup> Stalk borer <sup>3</sup> Stink bugs Webworm	0.018 to 0.028	1.5 to 2.4	
<p><sup>1</sup> Suppression only.</p> <p><sup>2</sup> See resistance statement under the "Directions For Use" section.</p> <p><sup>3</sup> Apply to early instar larvae prior to boring into ear or stalk.</p>			



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## SORGHUM

Target Pests	Rate		Remarks
	Pounds AI/A	Fl. Oz./A	
Corn earworm (also known as sorghum headworm) Cutworms Flea beetles Grasshoppers Sorghum webworm	0.012 to 0.018	1.0 to 1.5	<b>Minimum Gallonage Requirements:</b> 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.
Aphids <sup>1</sup> Armyworm (all species) <sup>2,3</sup> Chinch bug Corn rootworm beetles (adult) European corn borer <sup>3</sup> Lesser corn stalk borer <sup>3</sup> Mexican rice borer <sup>3</sup> Southern corn borer <sup>3</sup> Stalk borer <sup>3</sup> Sugarcane borer <sup>3</sup> Sorghum midge	0.015 to 0.022	1.3 to 1.9	
Stink bugs	0.018 to 0.022	1.5 to 1.8	
<sup>1</sup> Suppression only. <sup>2</sup> See resistance statement under the "Directions For Use" section. <sup>3</sup> Apply to early instar larvae prior to boring into the stalk.			

### SOYBEANS

Target Pests	Rate		Remarks
	Pounds AI/A	Fl. Oz./A	
Corn earworm <sup>3</sup> Cutworms Green cloverworm Leafhoppers Three-cornered alfalfa hopper Velvetbean caterpillar	0.012 to 0.018	1.0 to 1.5	<b>Minimum Gallonage Requirements:</b> 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.  <b>Optimum Gallonage Requirements:</b> For aerial applications under hot, dry environmental conditions or when the crop canopy is dense, gallonage requirements may need to be increased to 4 – 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 15 gallons per acre to obtain thorough coverage.  <b>NOTES for use on Soybeans:</b> 1. DO NOT apply more than 8.5 fluid ounces of DECIS 1.5EC per acre (0.1 lb ai/A) on soybeans in one growing season. 2. DO NOT apply DECIS 1.5EC within 21 days of harvest. 3. DO NOT allow livestock to graze treated forage, or feed treated hay to livestock.
Armyworm (all species) <sup>2,3</sup> Bean leaf beetle Cabbage looper <sup>3</sup> Click beetle Corn rootworm beetles (adult) European corn borer Grape colaspis (adult) Grasshoppers Japanese beetle (adult) Masked chafer Mexican bean beetle Saltmarsh caterpillar Soybean aphid Soybean looper <sup>3</sup> Stink bugs Tarnished plant bug <sup>2</sup> Tobacco budworm <sup>2,3</sup> Webworm Yellow Woollybear	0.018 to 0.028	1.5 to 2.4	

<sup>2</sup> See resistance statement under the "Directions For Use" section.  
<sup>3</sup> For best control apply to 1<sup>st</sup> and 2<sup>nd</sup> instar larvae.

### SUNFLOWERS (Except in California)

Target Pests	Rate		Remarks
	Pounds AI/A	Fl. Oz./A	
Banded sunflower moth Cabbage looper <sup>3</sup> Corn earworm <sup>3</sup> Cutworms Grasshoppers (except lubber grasshoppers) Leafhoppers Potato flea beetle Sunflower beetle Sunflower seed weevil Sunflower stem weevil (moth) Sunflower maggot Sunflower moth	0.012 to 0.018	1.0 to 1.5	<p><b>Minimum Gallonage Requirements:</b> 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.</p> <p><b>NOTES for Use on Sunflowers:</b></p> <ol style="list-style-type: none"> <li>DO NOT apply more than 3.8 fluid ounces of DECIS 1.5EC per acre (0.045 lb ai/acre) on sunflowers in one growing season.</li> <li>DO NOT apply within 21 days of harvest for sunflowers.</li> <li>DO NOT graze or feed treated sunflower foliage to livestock.</li> <li>DO NOT apply this product to sunflowers as an Ultra Low Volume (ULV) spray.</li> </ol>
<sup>3</sup> For best control apply to 1 <sup>st</sup> and 2 <sup>nd</sup> instar larvae.			

### BULB VEGETABLES

**Crops of Crop 3 Including:** Garlic, bulb; Garlic, great headed; Leek; Onion, dry bulb and green; Onion, Welsh; Shallot

Target Pests	Rate		Remarks
	Pounds AI/A	Fl. Oz./A	
Cutworms	0.012 to 0.018	1.0 to 1.5	<p><b>Minimum Gallonage Requirements:</b> 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.</p>
Stink bugs Thrips	0.018 to 0.028	1.5 to 2.4	<p><b>NOTES for Use on Bulb Vegetables:</b></p> <ol style="list-style-type: none"> <li>DO NOT apply more than 9.6 fluid ounces of DECIS 1.5EC per acre (0.112 lb ai/A) on bulb vegetables in one growing season.</li> <li>Allow 5 days between applications of DECIS 1.5EC.</li> <li>DO NOT apply within 1 day of harvest.</li> </ol>

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### CUCURBIT VEGETABLES

**Crops of Crop 9 Including:** Chayote (fruit); Chinese waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra); Momordica spp (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon (includes cantaloupe); pumpkin; squash, summer; squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash)

Target Pests	Rate		Remarks
	Pounds A/A	Fl. Oz./A	
Cabbage looper	0.012	1.0	<b>Minimum Gallonage Requirements:</b> 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.
Cutworms	to	to	
Leafhoppers	0.028	2.4	
Armyworm (all species) <sup>2,3</sup>	0.018	1.5	<b>NOTES for Use on Cucurbit Vegetables:</b> 1. DO NOT apply more than 14.4 fluid ounces of DECIS 1.5EC per acre (0.168 lb ai/A) on cucurbit vegetables in one growing season. 2. Allow 3 days between applications of DECIS 1.5EC. 3. DO NOT apply within 3 days of harvest.
Colorado potato beetle <sup>2</sup>	to	to	
Corn earworm	0.028	2.4	
Cucumber beetles			
Diamondback moth (larvae) <sup>2</sup>			
Flea beetles			
Grasshoppers			
Green peach aphid <sup>1</sup>			
Leafminers <sup>2</sup>			
Melonworm			
Pickleworm			
Stink bugs			
Tarnished plant bug <sup>2</sup>			
Tobacco budworm <sup>2,3</sup>			
Tomato pinworm			
Vegetable weevil (adult) <sup>1</sup>			
Western plant bug <sup>2</sup>			
Whitefly (adult) <sup>1</sup>			
<sup>1</sup> Suppression only. <sup>2</sup> See resistance statement under the "Directions For Use" section. <sup>3</sup> For best control apply to 1 <sup>st</sup> and 2 <sup>nd</sup> instar larvae.			

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### FRUITING VEGETABLES

Crops of Crop Group 8 Including: Eggplant; groundcherry ( Physalis spp); pepino; pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); tomatillo; tomato

Target Pests	Rate		Remarks
	Pounds A/A	Fl. Oz./A	
Cabbage looper	0.012	1.0	<b>Minimum Gallonage Requirements:</b> 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.
Leafhoppers	to	to	
Tomato hornworm	0.028	2.4	
Aphids <sup>1</sup>	0.018	1.5	<b>NOTES for Use on Fruiting Vegetables:</b> 1. DO NOT apply more than 14.4 fluid ounces of DECIS 1.5EC per acre (0.168 lb ai/A) on fruiting vegetables in one growing season. 2. Allow 5 days between applications of DECIS 1.5EC. 3. DO NOT apply within 1 day of harvest.
Armyworm (all species) <sup>2,3</sup>	to	to	
Colorado potato beetle <sup>2</sup>	0.028	2.4	
Cucumber beetle			
Cutworms			
Diamondback moth <sup>2</sup>			
European corn borer			
Flea beetles			
Imported cabbageworm			
Leafminers <sup>1</sup>			
Pepper weevil			
Stink bugs			
Tarnished plant bug <sup>2</sup>			
Thrips			
Tomato fruitworm (corn earworm)			
Tomato pinworm			
Variegated cutworm			
Whitefly <sup>1</sup>			
<sup>1</sup> Suppression only. <sup>2</sup> See resistance statement under the "Directions For Use" section. <sup>3</sup> For best control apply to 1 <sup>st</sup> and 2 <sup>nd</sup> instar larvae.			

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**GLOBE ARTICHOKE**

Target Pests	Rate		Remarks
	Pounds AI/A	Fl. Oz./A	
Aphids <sup>1</sup>	0.018	1.5	<b>Minimum Gallonage Requirements:</b> 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.  <b>NOTES for Use on Globe Artichoke:</b> 1. DO NOT apply more than 12.0 fluid ounces of DECIS 1.5EC 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 1.5EC. 3. DO NOT apply within 3 days of harvest.
Armyworm (all species) <sup>2,3</sup>	to	to	
Cabbage looper <sup>3</sup>	0.028	2.4	
Cribrate weevil			
Leafminers <sup>1</sup>			
Lygus bug (plant bug) <sup>1,2</sup>			
Pale striped flea beetles			
Plume moth			
Probas bug			
<sup>1</sup> Suppression only. <sup>2</sup> See resistance statement under the "Directions For Use" section. <sup>3</sup> For best control apply to 1 <sup>st</sup> and 2 <sup>nd</sup> instar larvae.			

**ROOT VEGETABLES (EXCEPT SUGARBEET)**

Crops of Crop Subgroup 1-B Including: (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**

Crops of Crop Subgroup 1-C Including: (potato, sweet potato, arracacha, arrowroot, chinese artichoke, jerusalem artichoke, edible canna, bitter and sweet cassava, chayote (root), chufa, dasheen, ginger, leren, tanier, tumeric, yam bean, true yam)

Target Pests	Rate		Remarks
	Pounds A/A	Fl. Oz./A	
Cabbage looper <sup>3</sup>	0.012	1.0	<b>Minimum Gallonage Requirements:</b> 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.
Cutworms	to	to	
Pea aphid	0.028	2.4	
Armyworm (all species) <sup>2,3</sup>	0.018	1.5	<b>NOTES for Use on Root, Tuberous, and Corm Vegetables:</b> 1. DO NOT apply more than 12.0 fluid ounces of DECIS 1.5EC 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 1.5EC. 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.
Colorado potato beetle <sup>2</sup>	to	to	
European corn borer	0.028	2.4	
Flea beetles			
Green peach aphid <sup>1</sup>			
Leafhoppers			
Lygus bug (plant bug) <sup>2</sup>			
Tarnished plant bug <sup>2</sup>			
<sup>1</sup> Suppression only. <sup>2</sup> See resistance statement under the "Directions For Use" section. <sup>3</sup> For best control apply to 1 <sup>st</sup> and 2 <sup>nd</sup> instar larvae.			

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**CANOLA, CRAMBE, RAPESEED**

Target Pests	Rate		Remarks
	Pounds A/A	Fl. Oz./A	
Beet Armyworm <sup>2,3</sup> Bertha Armyworm Cabbage seed pod weevil Clover Cutworm Daimonback Moth Flea Beetle Grasshopper Lygus bug (plant bug) <sup>2</sup>	.009	0.8	<b>Minimum Gallonage Requirements:</b> 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.  <b>NOTES for Use on Canola, Crambe and Rapeseed:</b> 1. DO NOT apply more than 1.5 fluid ounces of DECIS 1.5EC per acre (0.018 lb ai/A) on Canola, Crambe, or Rapeseed in one growing season. 2. Allow 7 days between applications of DECIS 1.5EC. 3. DO NOT apply DECIS 1.5EC within 7 days of harvest.
<sup>2</sup> See resistance statement under the "Directions For Use" section. <sup>3</sup> For best control apply to 1 <sup>st</sup> and 2 <sup>nd</sup> instar larvae.			

**TREE NUTS**

**Crops of Crop Group 14 plus Pistachio Including:** (almonds, beech nut, Brazil nut, butternut, cashew, chestnut, chinquapin, filbert, hickory nut, macadamia nut, pecan, pistachio, walnut)

Target Pests	Rate		Remarks
	Pounds A/A	Fl. Oz./A	
Aphids <sup>1</sup> Codling moth Filbertworm Hickory shuckworm Leafhoppers Navel orangeworm Obliquebanded leafroller Peach twig borer Pecan nut casebearer Pecan weevil Stink bugs Tarnished plant bug <sup>2</sup> Walnut husk fly Western peach borer	0.02 to 0.033	1.7 to 2.8	For best results against over-wintering peach twig borer, apply as a dormant spray or delayed dormant spray. Decis may be applied in combination with dormant oil. Refer to the dormant oil product label for additional use directions and restrictions.  <b>Minimum Gallonage Requirements:</b> 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.  <b>NOTES for Use on Tree Nuts:</b> 1. DO NOT apply more than 14 fluid ounces of DECIS 1.5EC per acre (0.165 lb ai/A) on tree nuts in one growing season. 2. Allow 7 days between applications of DECIS 1.5EC. 3. DO NOT apply within 21 days of harvest.
<sup>1</sup> Suppression only. <sup>2</sup> See resistance statement under the "Directions For Use" section.			



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### POME FRUITS

Crops of Crop Group 11 Including: apple; crabapple; loquat; mayhaw; pear; oriental pear, quince

Target Pests	Rate		Remarks
	Pounds Ai/A	Fl. Oz./A	
Apple leafroller	0.011	0.9	<p>For applications to boring insects, apply prior to the insects entering the wood or fruit. Insects contained within plant tissue may not be controlled.</p> <p><b>Minimum Gallonage Requirements:</b></p> <p>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.</p> <p><b>NOTES for Use on Pome Fruits:</b></p> <ol style="list-style-type: none"> <li>DO NOT apply more than 3.6 fluid ounces of DECIS 1.5EC per acre (0.042 lb ai/A) on pome fruits in one growing season.</li> <li>Allow 7 days between applications of DECIS 1.5EC.</li> <li>DO NOT apply within 21 days of harvest.</li> </ol>
Apple leaf miner	to	to	
Apple maggot	0.022	1.9	
Codling moth			
Green fruitworm			
Obliquebanded leafroller			
Oriental fruit moth			
Plum curculio			
Potato leafhopper			
Redbanded leafroller			
San José scale (crawlers)			
Spotted tentiform leafminer			
Tarnished plant bug <sup>2</sup>			
Western plant bug <sup>2</sup>			
White apple leafhopper			
Aphids <sup>1</sup>	0.022	1.9	
European apple sawfly			
Lesser appleworm			
Pear psylla <sup>1</sup>			
Pear sawfly			
Periodic cicada			
Stink bugs			

<sup>1</sup> Suppression only.

<sup>2</sup> See resistance statement under the "Directions For Use" section.

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### RATE CONVERSION CHART

FLUID OUNCES PER ACRE	LBS AI PER ACRE	ACRES PER GALLON
0.8	0.009	160
1.0	0.012	128
1.2	0.014	107
1.4	0.016	91
1.6	0.019	80
1.8	0.021	71
2.0	0.023	64
2.2	0.026	56
2.4	0.028	53
2.6	0.030	49
2.8	0.033	46

### RATE CONVERSION CHART FOR HIGH VOLUME APPLICATIONS

DESIRED FLUID OUNCES OF PRODUCT PER ACRE	FLUID OUNCES PER 100 GAL OF WATER WHEN USING SPRAY VOLUME OF:						
	25 GPA	50 GPA	100 GPA	150 GPA	200 GPA	250 GPA	500 GPA
0.8	3.2	1.6	0.8	0.53	0.4	0.32	0.16
1	4	2	1	0.67	0.5	0.4	0.2
1.2	4.8	2.4	1.2	0.8	0.6	0.48	0.24
1.4	5.6	2.8	1.4	0.93	0.7	0.56	0.28
1.6	6.4	3.2	1.6	1.07	0.8	0.64	0.32
1.8	7.2	3.6	1.8	1.2	0.9	0.72	0.36
2	8	4	2	1.33	1.0	0.8	0.4
2.2	8.8	4.4	2.2	1.47	1.1	0.88	0.44
2.4	9.6	4.8	2.4	1.6	1.2	0.96	0.48
2.6	10.4	5.2	2.6	1.73	1.3	1.04	0.52
2.8	11.2	5.6	2.8	1.87	1.4	1.12	0.56

### CHEMIGATION USE DIRECTIONS AND PRECAUTIONS

#### SPRINKLER IRRIGATION APPLICATION

Apply DECIS 1.5EC 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 1.5EC 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 1.5EC 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.

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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 1.5EC 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.

**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 6 synthetic pyrethroid applications (of one product or combination of products) to a crop in one growing season. Synthetic pyrethroid products include AMBUSH<sup>®</sup>, AMMO<sup>®</sup> 2.5EC, ASANA<sup>®</sup> XL, BAYTHROID 2, CAPTURE<sup>®</sup> 2EC, CYMBUSH, DANITOL 2.4EC, DECIS, FURY<sup>™</sup> 1.5EC, KARATE<sup>®</sup>, MUSTANG, POUNCE<sup>®</sup> 3.2EC, SCOUT X-TRA<sup>®</sup>, and SynerGin<sup>™</sup> 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.**

**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 Deltamethrin 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 fishponds).

**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 fishponds).

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### **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 fishponds).

### **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.

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

### **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 wingspan 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 crosswind, 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.

Do not apply DECIS 1.5 EC Insecticide by aerial application in New York State.

## **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 Handling:** Non-refillable container, do not refill or reuse. 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 reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

#### **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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**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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PRODUCED FOR



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