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NOV 14 1994

Novo Nordisk A/S  
c/o Ms. Janet M. Overholt  
Novo Nordisk Bioindustrials, Inc.  
33 Turner Road  
Danbury, CT 06813-1907

Dear Ms. Overholt:

Subject: Foray® 76B Label Amendment  
Your Letters Dated 10/6/94  
EPA Registration Nos. 58998-17

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act is acceptable provided you make the following changes prior to shipment.

1) Delete "Avoid breathing spray mists." from the precautionary statements. A copy of our recent review of an inhalation study on the similar product Foray 48B is enclosed for your information.

2) Delete the phrase "highly selective" in the General Agricultural Use Instructions section as it is an implied safety claim.

3) Clearly designate on the master label the directions for use for agricultural applications' Directions for Use Booklet by titling this section as such. More clearly indicate that the directions for use for non-agricultural applications is part of the container label.

4) Add "Do not apply this product through any type of irrigation system." to the non-agricultural applications directions for use section.

5) Move the statements "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." into the Agricultural Use Requirements block directly above the REI statement.

		CONCURRENCES					
SYMBOL	R05C						
SURNAME	Overholt						
DATE	11/9/94						

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-2-

Submit five (5) copies of the final printed labeling.

Sincerely,



Phillip Hutton  
Product Manager 18  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

Enclosure

CONCURRENCES

SYMBOL								
SURNAME								
DATE								



Foray® is the Registered Trademark of Novo Nordisk A/S  
with COMMENTS  
in EPA Letter Dated

**KEEP OUT OF REACH OF CHILDREN** 3 9 18  
**CAUTION**

NOV 14 1994

**ACTIVE INGREDIENT** *Bacillus thuringiensis* subspecies *kurstaki*, Lepidopteran Active Toxin.....3.3%  
Inert Ingredients.....96.7%  
TOTAL.....100%

**POTENCY:** 16,700 International Units (IU)/mg of product (equivalent to 76 billion IU/GAL.). Potency units should not be used to adjust use rates beyond those specified in the directions for use sections.

**PRECAUTIONARY STATEMENTS:**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

Avoid contact with skin, eyes, open wounds or clothing. Avoid breathing spray mists. Causes moderate eye irritation.

**USER SAFETY RECOMMENDATIONS:**

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

**PERSONAL PROTECTIVE EQUIPMENT**

Applicators and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENVIRONMENTAL HAZARDS**

Do not contaminate water when disposing of equipment washwaters.

For terrestrial agricultural uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

**STATEMENTS OF PRACTICAL TREATMENT: *If on Skin:***

Wash with plenty of soap and water. Get medical attention. *If in Eyes:* Flush with plenty of water. Call a physician if eye irritation persists.

**DIRECTIONS FOR USE FOR AGRICULTURAL APPLICATIONS:**

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

**DIRECTIONS FOR USE Cont'd**

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 58998-17

**Agricultural Use Requirements:** Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions For Use section for information about this standard.

Do not apply this product through any type of irrigation system.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Refer to the Directions For Use Booklet attached to this container for further directions.

**STORAGE AND DISPOSAL:**

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

**Storage:** Store in a cool, dry place. Keep containers tightly closed when not in use. Store in temperatures above freezing and below 25 degrees C (77 degrees F).

**Pesticide Disposal:** Pesticide waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility in accordance with federal and local regulations.

**Container Disposal:** Triple rinse (or equivalent). 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.

**NOTICE OF WARRANTY:** NOVO NORDISK MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PURPOSE, OR OTHERWISE, EXPRESS OR IMPLIED, concerning this product or its uses which extend beyond the use of the product under normal conditions in accord with the statements made on this label. In no case shall the seller be liable for consequential, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer.

EPA Registration No. 58998-17  
EPA Est. No. 58998-DN-002  
BXL P768(9/94)

**MANUFACTURED FOR:**  
Novo Nordisk  
33 Turner Road, Danbury, CT 06813-1907

**NET CONTENTS**  
U S Gallons

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

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not apply this product through any type of irrigation system.

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.

#### **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, waterproof gloves, shoes plus socks.

#### **APPLICATION**

Foray 76B may be applied by ground or aerial equipment undiluted or with quantities of water sufficient to provide thorough coverage of plant parts to be protected. The amount of water needed per acre will depend upon crop size, weather, spray equipment, and local experience.

#### **MIXING**

Shake or stir Foray 76B before use. Fill spray or mixing tank half full of water. Begin agitation and pour Foray 76B into water while maintaining continuous agitation. Add other spray material (if any) and balance of water. Agitate as necessary to maintain suspension. Do not allow diluted mixture to remain in the tank for more than 72 hours.

The use of a spreader-sticker approved for use on growing crops is recommended for hard to wet crops such as cole crops or to improve weather-fastness of the spray deposits. Combinations with commonly used spray tank adjuvants are generally not deleterious to Foray 76B, if the mix is used promptly. Before mixing in the spray tank, it is advisable to test physical compatibility by mixing all components in a small container in proportionate quantities.

Foray 76B

5918

## SPRAY VOLUMES

**Ground Application:** Use recommended amount of Foray 76B in ground equipment with quantities of water sufficient to provide thorough coverage of plant parts to be protected. The amount of water needed per acre will depend upon crop size, weather conditions, spray equipment used and local experience.

**Aerial Application:** Use recommended amount of Foray 76B in aerial equipment undiluted or with quantities of water sufficient to provide thorough coverage of plant parts to be protected. In the western U.S. 5-10 gallons per acre is the normal minimum; in the eastern regions a minimum of 2-3 gallons is normally used. The minimum amount of water needed per acre will depend upon crop size, weather conditions, spray equipment used and local experience.

## GENERAL AGRICULTURAL USE INSTRUCTIONS

Foray 76B is a highly selective biological insecticide for the control of lepidopterous larvae. It contains the spores and endotoxin crystals of *Bacillus thuringiensis kurstaki*. Foray 76B must be ingested by the larvae to be effective. For consistent control, apply at first sign of newly hatched larvae (1st and 2nd instar larvae). Susceptible larvae that ingest Foray 76B cease feeding within a few hours and die within 2-5 days.

Foray 76B may be applied up to and on the day of harvest.

For maximum effectiveness the following is recommended:

Monitor fields to detect early infestations.

Apply Foray 76B when eggs start hatching and larvae are small (early instars) and before significant crop damage occurs. Larvae must be actively feeding to be affected.

Repeat applications every 3 to 14 days to maintain control and protect new plant growth. Factors affecting spray interval include rate of plant growth, weather conditions, and reinfestation. Monitor populations of pests and beneficials to determine proper timing of applications.

Under conditions of heavy pest pressures or when large worms are present use the higher rate, shorten the application interval, and/or improve spray coverage to enhance control. When these conditions are present, a contact insecticide should be used to enhance control.

Thorough coverage is essential for optimum performance. Ground applicators equipped with directed drop nozzles can improve coverage.

6918

APPLICATION RATES:

CROP GROUP				
FORAGE, FODDER, HAY				
	Crop	Pests	Rate (pts./acre)	Special Instructions
	Alfalfa (Hay & Seed) and Other Non-grass Animal Feeds, Grasses Grown For Feed (pasture, ranges, hay or silage)	Alfalfa Caterpillar Loopers	0.5-2.0	
		Armyworms	1.0-3.5	*
		European Skipper (Essex Skipper)	1.0-2.0	

CROP GROUP				
FRUITS & NUTS				
	Crop	Pests	Rate (pts./acre)	Special Instructions
	Pome and Stone Fruit Trees such as: Apples, Pears, Quince, Apricots, Cherries, Nectarines, Peaches, Plums, Prunes.  Nut Trees such as: Almonds, Filbert, Chestnuts, Walnuts, Pecans.	Citrus Cutworm Navel Orangeworm Redhumped Caterpillar Tent Caterpillars Omnivorous Leafroller Tortrix Moths Cankerworms Peach Twig Borer Fruittree Leafroller Gypsy Moth Tufted Apple Budmoth Fall Webworm Variegated Leafroller Redbanded Leafroller Walnut Caterpillar Codling Moth Cutworms Filbert Leafroller Oblique Banded Leafroller	1.0-3.5	
		Filbert Webworm	1.0-2.0	
		Roughskinned Cutworm	0.5-1.0	

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	Crop	Pests	Rate (pts./acre)	Special Instructions
	Citrus	Orangedog	0.5-2.0	
		Fruittree Leafroller Citrus Cutworm	1.0-3.5	
		Amorbia	2.0-2.5	** See Below
)	Small Fruit and Berries such as:  Blackberries, Blueberries, Currants, Raspberries, Strawberries, Cranberries.	Gypsy Moth Blueberry Leafroller Loopers Fruittree Leafroller Grape Berry Moth Oblique Banded Leafroller Achema Sphinx Moth (Hornworm)	1.0-2.0	
		Armyworms	1.0-3.5	*
		Tobacco Budworm	3.5	**See Below
	Grapes	Cherry Fruitworm Green Fruitworm	0.5-1.0	
		Grape Leaffolder Grapeleaf Skeletonizer Omnivorous Leafroller Orange Tortrix Saltmarsh Caterpillar	1.0-2.5	

CROP GROUP

OTHER FRUITS

	Crop	Pests	Rate (pts./acre)	Special Instructions
)	Bananas	Banana Skipper	1.0-2.0	
	Tropical Fruits	Hornworms Leafrollers Loopers Omnivorous Looper	1.0-3.5	
	Kiwi	Omnivorous Leafroller	1.0-2.5	

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Crop	Pests	Rate (pts./acre)	Special Instructions
Pineapple	<i>Gummosos-Batrachedra commosae</i> (Hodges) <i>Thecla-Thecla basilides</i> (Geyr)	0.5-1.0	
Melons	(See Vegetable Crops, Cucurbits)		

**CROP GROUPS**

**VEGETABLES AND COLE CROPS**

Crop	Pests	Rate (pts./acre)	Special Instructions
Root & Tuber Vegetables, and leaves of Root and Tuber vegetables such as: Beets, Carrot, Horseradish, Radish, Potato Sweet Potato, Turnip and Turnip Greens, Sugarbeets.	Imported Cabbageworm Green Cloverworm	0.5-2.0	
	Hornworms	0.25-2.0	
	Cutworms Loopers Webworms Saltmarsh Caterpillar Omnivorous Leafroller	1.0-2.0	
	Armyworms	1.0-3.5	*
	Diamondback Moth	0.5-2.0	
	European Corn Borer	2.0-2.5	
	Alfalfa Caterpillar	0.25-0.5	

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9918

Crop	Pests	Rate (pts./acre)	Special Instructions
Bulb Vegetables  such as: Garlic, Leeks, Onions, Shallot	Saltmarsh Caterpillar Omnivorous Leafroller Webworms	1.0-2.0	
	----- Hornworms	0.25-2.0	
	----- Imported Cabbageworm Green Cloverworm Loopers	0.5-2.0	
	----- Cutworms	1.0-2.0	
	----- Armyworms	1.0-3.5	*
	----- Diamondback Moth	0.5-1.0	
	----- European Corn Borer	2.0-2.5	
	----- <i>Heliothis</i> spp.	2.0	Suppression Only **
Leafy vegetables such as:  Celery, Lettuce (Head and Leaf), Parsley, Endive, Spinach, Kale	Imported Cabbageworm Green Cloverworm	0.5-2.0	
	----- Hornworms	0.25-2.0	
	----- Cutworms Webworms	1.0-2.0	
	----- Loopers Diamondback Moth	0.5-2.0	
	----- Saltmarsh Caterpillar Omnivorous Leafroller	1.0-2.0	
	----- Armyworms	1.0-3.5	*
	----- European Corn Borer	2.0-2.5	

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Crop	Pests	Rate (pts./acre)	Special Instructions
Legume and foliage of Legume vegetables, such as: Lentils, Peas, Beans, Soybeans	Loopers	0.5-2.0	
	Hornworms	0.25-1.0	
	Podworms Imported Cabbageworm Green Cloverworm Saltmarsh Caterpillar Soybean Loopers Velvetbean Caterpillar	1.0-2.0	
	Armyworms	1.0-3.5	*
	Diamondback Moth	0.5-2.0	
	European Corn Borer	2.0-2.5	
	Cutworms	1.0-2.5	
	Fruiting Vegetables such as: Eggplant, Peppers, Tomatoes.	Imported Cabbageworm Diamondback Moth Green Cloverworm	0.5-1.0
Hornworms		0.25-2.0	
Tomato Fruitworm ( <i>Heliothis</i> ) Variegated Cutworm Saltmarsh Caterpillar Loopers		1.0-2.0	
Armyworms		1.0-3.5	*
European Corn Borer		2.0-2.5	
Brassica (cole) vegetables such as: Broccoli, Brussels sprouts, Cabbage, Cauliflower, Collards, Kohlrabi.	Hornworms	0.25-2.0	
	Webworms Loopers Cutworms Saltmarsh Caterpillar Omnivorous leafroller	1.0-2.0	
	Diamondback Moth Imported Cabbageworm Green Cloverworm	0.5-2.0	
	Armyworms	1.0-3.5	*
	European Corn Borer	2.0-2.5	

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Crop	Pests	Rate (pts./acre)	Special Instructions	
Cucurbit vegetables such as: Cucumbers, Melons, Pumpkins, Squash, Watermelon.	Imported Cabbageworm	0.5-2.0		
	Green Cloverworm			
	Diamondback Moth			
	Loopers	1.0-3.5		*
	Saltmarsh Caterpillar			
	Melonworm	2.0-2.5		
Pickleworm				
Rindworm complex	0.25-1.0			
Armyworms				
European Corn Borer				
Hornworms				

**OTHER VEGETABLES**

Crop	Pests	Rate (pts./acre)	Special Instructions	
Artichokes	Artichoke Plume Moth	1.0-2.5		
	Armyworms	1.0-2.5		*
	Loopers	0.5-2.5		
Asparagus	Armyworms	1.0-3.5	*	
	Diamondback Moth	0.5-1.0		
	Green Cloverworm			
	Imported Cabbageworm			
Loopers	0.5-2.0			
Malanga	Armyworms	1.0-3.5	*	
	Saltmarsh Caterpillar	1.0-2.0		
Watercress	Loopers	0.5-1.7		
	Diamondback Moth			
	Armyworms	1.0-3.5		*
	Green Cloverworm	0.5-1.0		
	Imported Cabbageworm			
	Saltmarsh Caterpillar	1.0-2.0		
European Corn Borer	2.0-2.5			
Sweet Corn	(see Other Crops, Corn)			

12 9 18

CROP GROUP				
HERBS, SPICES, MINTS				
	Crop	Pests	Rate (pts./acre)	Special Instructions
	Such as: Basil, Dill, Oregano, Thyme, Peppermint.	Loopers	0.5-2.0	
		Diamondback Moth	0.5-1.0	
		Green Cloverworm		
		Imported Cabbageworm		
		Armyworms	1.0-3.5	*
		European Corn Borer	2.0-2.5	

CROP GROUP				
OTHER CROPS				
	Crop	Pests	Rate (pts./acre)	Special Instructions
	Avocadoes	Loopers	2.0-2.5	
		Orange Tortrix	1.0-3.5	
		Omnivorous Leafroller		
		Omnivorous Looper		
		Spanworm		
		Amorbia	1.0-3.5	Suppression Only **
	Rice	Armyworms	1.0-2.5	*
		Loopers	1.0-2.0	
		Saltmarsh Caterpillar		
		Cutworms	1.0-2.5	
		Green Cloverworm	0.5-1.0	
		Velvetbean Caterpillar		
		<i>Heliothis</i> spp.	2.0	Suppression Only **

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Crop	Pests	Rate (pts./acre)	Special Instructions
Cotton (Except CA & AZ)	Loopers	1.0-2.0	
	Armyworms	1.0-3.5	*
	Cotton Bollworm Tobacco Budworm	0.5-3.5	See Below

**Special Instructions:** For early season management of *Heliothis/Helicoverpa* species, initiate applications at pinhead square stage when eggs are present. For best results, application should be timed to coincide with egg hatch. Continue applications on 5 day intervals. Addition of an ovicide may be beneficial. Preservation of beneficial insects should be considered in selecting an ovicide. Applications of Foray 76B may continue throughout the season. As the larval population increases through the season, increase rates of Foray 76B, and tank-mix with other larvicides for increased control. When the crop canopy is dense and larvae are feeding in the lower canopy, aerial application of Foray 76B may not provide adequate deposit for acceptable control. This product can be mixed and used with other pesticides only in accordance with the most restrictive of label limitations and precautions. This product cannot be mixed with any product containing a label prohibition against such mixing. No label dosage rates may be exceeded.

Cotton (CA & AZ)	Armyworms	1.0-3.5	*
	Cotton Leaf Perforator	1.0-2.0	
	Cotton Leafworm		
	Saltmarsh Caterpillar		
	Loopers	1.0-2.0	
Cotton Bollworm Tobacco Budworm		1.0-3.5	See Below

**Special Instructions:** Repeat as necessary throughout the season to maintain control. If egg laying frequency indicates future moderate to heavy larval populations, time application to coincide with the second instar larvae. During periods of high temperatures, larvae will progress through first to third instars very rapidly and early application timing is necessary for control. When plant cover is dense and larvae are feeding in the lower 2/3 portion of the plant, aerial application of Foray 76B may not provide adequate deposit to achieve acceptable control.

Canola/Rape Seed	Armyworms	1.0-3.5	*
	Diamondback Moth	0.5-1.0	
	Loopers	1.0-2.0	
	<i>Heliothis</i> spp.	1.0-3.5	
Corn Such as: Field, Sweet, Popcorn.	Armyworms	1.0-3.5	*
	European Corn Borer (Whorl Stage Only)	1.0-2.5	
	Southwestern Corn Borer	2.0-2.5	Aids in Control

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Crop	Pests	Rate (pts./acre)	Special Instructions
Hops	Armyworms	1.0-3.5	*
	Loopers	0.5-2.0	
	Omnivorous Leaf-tier Spotted Cutworm Oblique Banded Leafroller	1.0-2.0	
Jojoba	Looper ( <i>Anacamptodes</i> spp.)	1.0-2.0	
Peanuts	Green Cloverworm Loopers Velvetbean Caterpillar Podworms	1.0-2.0	
	<i>Heliothis</i> spp.	2.0	Suppression Only **
Persimmons, Pomegranate	Fall Webworm Filbert Webworm Omnivorous Leafroller Redhumped Caterpillar Tent Caterpillars	1.0-2.0	
	Citrus Cutworm	1.0-2.5	
Safflower	Armyworms	1.0-3.5	*
	Loopers Saltmarsh Caterpillar	1.0-2.0	
Sorghum	Headworm	1.0-2.0	
Soybeans	(see Vegetable Crops, Legumes)		
Sunflowers	Headmoth Loopers	1.0-2.0	
Small Grains	Armyworms	1.0-3.5	*
	Loopers	1.0-2.0	
Tobacco	Tobacco Hornworm	0.25-1.0	
	Loopers	0.5-2.0	
	Tobacco Budworm	2.0	Suppression Only **

15918

CROP GROUP  
 FLOWERS BEDDING PLANTS,  
 AND ORNAMENTALS

Crop	Pests	Rate (pts./acre)	Special Instructions
Ornamentals Flowers, Bedding Plants	Armyworms	1.0-3.5	*
	Azalea Moth Diamondback Moth Ello Moth (Hornworm) Io Moth Loopers Oleander Moth Omnivorous Leafroller Omnivorous Looper Tobacco Budworm	0.5-1.0	

CROP GROUP  
 GREENHOUSE,  
 AND OUTDOOR NURSERY CROPS

Crop	Pests	Rate (pts./acre)	Special Instructions
Such as: Flowers, Brassica, Fruiting Groups, Herbs, and Leafy	Armyworms <i>Heliothis</i> spp.	1.0-3.5	*
	Loopers	1.0-2.0	

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CROP GROUP				
Forests, Shade Trees, Ornamentals, Shrubs, Sugar Maple Trees				
	Crop	Pests	Rate <sup>1</sup> (oz./acre)	Dosage <sup>1</sup> (BIU/acre)
	Forests, Shade Trees, Ornamentals, Shrubs, Sugar Maple Trees, Seed Orchards, Ornamental Fruit, Nut & Citrus Trees <sup>2</sup>	Gypsy Moth Elm Spanworm	13.5- 67.5	8 - 40
		Spruce Budworm Browntail Moth Douglas fir tussock moth coneworm Buck moth	13.5-50.5	8 - 30
		Tussock Moths Pine Butterfly Bagworm Leafrollers Tortrix Mimosa Webworm Tent Caterpillar Jackpine Budworm Blackheaded Budworm Saddled Prominent Saddleback Caterpillar Eastern & Western hemlock looper Orangestriped oakworm Satin Moth	10.0-27.0	6 - 16
		Redhumped Caterpillars Spring & Fall Cankerworm California Oakworm Fall Webworm	7.0-13.5	4 - 8

**Special Instructions**

- \* Armyworm Control: Foray 76B may be used to control small armyworms (first and second instar) when populations are light and full coverage sprays are applied. Repeat treatment as necessary. If mature larvae or heavy populations are present, a contact insecticide should be added to enhance control.
  - \*\* Suppression Only: Use to aid in control of light to moderate populations of first and second instars in Integrated Pest Management conditions. Repeat treatments at four to five day intervals. The use of additional ovicidal or larvicidal insecticide will aid in control.
- <sup>1</sup> Use the higher recommended rates on advanced larval stages or under high density larval populations.
- <sup>2</sup> In treating gypsy moth infested trees and shrubs in urban, rural, and semi-rural areas, exposure of non target vegetation including, but not limited to, native and ornamental species and food or feed crops is permitted.

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**DIRECTIONS FOR USE FOR NON-AGRICULTURAL APPLICATIONS**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

Not for use on trees being grown for sale or other commercial use, or for commercial seed production, or for the production of timber or wood products, or for research purposes.

For use on plants in non-crop and non-timber areas only. Not for use on crops, timber, or other plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.

FORAY 76B contains the spores and endotoxin crystals of *Bacillus thuringiensis kurstaki*. FORAY 76B is a stomach poison and is effective against lepidopterous larvae. After ingestion, larvae stop feeding within hours and die 2-5 days later. Maximum activity is exhibited against early instar larvae. FORAY 76B may be used for both ground and aerial application. The product should be shaken or stirred before use. Add some water to the tank mix, pour the recommended amount of FORAY 76B into the tank and then add the remaining amount of water to obtain the proper mix ratio. Agitate as necessary to maintain the suspension. The diluted mix should be used within 72 hours.

**Ground Application**

Use an adequate amount of tank mix to obtain thorough coverage without excessive run off. Use the recommended per acre dosages of Foray 76B in up to the following amounts of water:

High volume hydraulic sprayers	100 gallons
Mist blowers	10 gallons

**Aerial Application**

Foray 76B may be applied aerially, either alone or diluted with water at the dosages shown in the application rates table. Spray volumes of 28-128 ounces per acre are recommended. Best results are expected when Foray 76B is applied to dry foliage.

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18 9 18

CROP GROUP				
Forests, Shade Trees, Ornamentals, Shrubs, Sugar Maple Trees				
	Crop	Pests	Rate <sup>1</sup> (oz./acre)	Dosage <sup>1</sup> (BIU/acre)
	Forests, Shade Trees, Ornamentals, Shrubs, Sugar Maple Trees, Ornamental Fruit, Nut & Citrus Trees <sup>2</sup>	Gypsy Moth Elm Spanworm	13.5- 67.5	8 - 40
		Spruce Budworm Browntail Moth Douglas fir tussock moth coneworm Buck moth	13.5-50.5	8 - 30
		Tussock Moths Pine Butterfly Bagworm Leafrollers Tortrix Mimosa Webworm Tent Caterpillar Jackpine Budworm Blackheaded Budworm Saddled Prominent Saddleback Caterpillar Eastern & Western hemlock looper Orangestriped oakworm Satin Moth	10.0-27.0	6 - 16
		Redhumped Caterpillars Spring & Fall Cankerworm California Oakworm Fall Webworm	7.0-13.5	4 - 8

**Special Instructions**

- \* Armyworm Control: Foray 76B may be used to control small armyworms (first and second instar) when populations are light and full coverage sprays are applied. Repeat treatment as necessary. If mature larvae or heavy populations are present, a contact insecticide should be added to enhance control.
  - \*\* Suppression Only: Use to aid in control of light to moderate populations of first and second instars in Integrated Pest Management conditions. Repeat treatments at four to five day intervals. The use of additional ovicidal or larvicidal insecticide will aid in control.
- <sup>1</sup> Use the higher recommended rates on advanced larval stages or under high density larval populations.
- <sup>2</sup> In treating gypsy moth infested trees and shrubs in urban, rural, and semi-rural areas, exposure of non-target vegetation including, but not limited to, native and ornamental species and food or feed crops is permitted.