

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060. Approval expires 11-30-93

	United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number 201950
	Application for Pesticide:		
	Section I		

1. Company/Product Number SANDOZ AGRO, INC./ 55947-136	2. EPA Product Manager Phil Hutton	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Sandoz Agro, Inc./ Biological Insecticide	PM# 90	
5. Name and Address of Applicant (Include ZIP Code) Sandoz Agro, Inc. 1300 East Touhy Avenue Des Plaines, IL 60018 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

Section II	
<input type="checkbox"/> Amendment - Explain below <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other - explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
 Javelin WG Biological Insecticide is a B.t. subsp. kurstaki listed in Federal Register notice of May 3, 1995 (Vol. 60, No. 85, p. 21966) as one of the pesticides which qualifies for reduced restricted entry intervals. We are submitting a revised label for Javelin in which the REI is reduced to 4 hours from 12. No other changes were made to the label.

Section III			
1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes," Unit Package wgt. _____	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes," Package wgt. _____	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted.		No. per container _____	No. per container _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container _____	
		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner In Which Label Is Affixed To Product		<input type="checkbox"/> Other (_____)	
		<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled	

Section IV		
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Frederick F. Piszkiwicz	Title Registration Specialist	Telephone No. (Include Area Code) (708) 390-3698
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Registration Specialist	
4. Typed Name Frederick F. Piszkiwicz	5. Date August 31, 1995	

JAVELIN LABEL 2 of 2
w/REVISED 4/11. REI

(CONTAINER LABEL)

JAVELIN® WG BIOLOGICAL INSECTICIDE

For Control Of Insect Pests Of Vegetables, Fruit and Field Crops

ACTIVE INGREDIENT:

Bacillus thuringiensis, subspecies kurstaki
Potency of 52,863 Spodoptera Units
(at least 60 million viable spores) per milligram* 7.5%

INERT INGREDIENTS: 92.5%
TOTAL 100.0%

Potency units should not be used to adjust use rates beyond those specified in the Directions for Use section.

* Equivalent to 24.0 billion Spodoptera Units per pound
(17.0 billion International Units per pound).

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Made in the USA
EPA REG. NO.: 55947-136

Lot No.:

EPA EST. NO.: 55947-CA-2

Net Contents:

Manufactured by:
SANDOZ AGRO, INC.
DES PLAINES, IL 60018

Javelin® WG is a registered trademark of Sandoz Ltd.

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**JAVELIN® WG
BIOLOGICAL INSECTICIDE**

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)
CAUTION**

Harmful if inhaled or absorbed through the skin. Avoid breathing vapors or spray mist. Prolonged or frequently repeated skin contact may cause an allergic reaction in some individuals. Avoid contact with skin, eyes or clothing. Discontinue use if reaction occurs. In case of contact immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

STATEMENT OF PRACTICAL TREATMENT

If On Skin: Wash with plenty of soap and water. Get medical attention, if irritation persists.

If in eyes: Immediately flush eyes with plenty of water. Get medical attention if irritation persists.

Personal Protective Equipment:

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statements:

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

User Safety Recommendations:

Users should:

- o Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- o Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- o Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwaters.

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.

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 4 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

Unless specifically stated, do not apply this product through any type of irrigation system. 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 and disposal.

Storage: Store in original container in a cool, dry place inaccessible to children and pets and away from heat and direct sunlight. Protect from freezing. Storage at temperatures above 90°F may impair effectiveness.

Pesticide Disposal: Pesticide, spray mixture, or rinse water that cannot be used according to label instruction must be disposed of according to Federal, State, or Local procedures.

Container Disposal:

Completely empty container into application equipment. 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.

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(DIRECTIONS FOR USE)
JAVELIN® WG BIOLOGICAL INSECTICIDE

Made in the U.S.A.

EPA Reg. No. 55947-136

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.

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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 enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 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

Prosper with pesticides by using them properly! Read and follow label directions.

This labeling must be in the possession of the user at the time of the pesticide application.

NOTICE: Read "Limitation of Warranty and Limitation of Liability" on the container or in this Directions for Use section before buying or using. If terms are not acceptable, return at once unopened.

Unless specifically stated, do not apply this product through any type of irrigation system.

JAVELIN® WG is a biological insecticide for the control of lepidopterous larvae (see Recommended Application Rates section).

JAVELIN® WG attacks the larval gut and must be ingested by the insect to be effective.

JAVELIN® WG may be applied up to and on the day of harvest.

JAVELIN® WG is a registered trademark of Sandoz Ltd.

Manufactured by: Sandoz Agro, Inc., 1300 East Touhy Avenue, Des Plaines, Illinois 60018.

GENERAL USE INSTRUCTIONS

For most consistent control, apply at first sign of newly hatched worms (1st and 2nd instar larvae). Instructions for specific crops are located in ADDITIONAL INSTRUCTION sections under RECOMMENDED APPLICATION RATES.

Reapply as necessary under a pest management program that includes close scouting.

If rapid knockdown of heavy worm or non-lepidopterous populations is necessary, include an effective contact insecticide in combination with **JAVELIN® WG**.

For heavy worm infestations, use the higher **JAVELIN® WG** rate. During situations of dense foliage and/or rapid growth, increasing water carrier volumes will provide better crop coverage and improve **JAVELIN® WG** performance.

4.7.20

Tank mix recommendations are for use only in states where the tank mix product and application site are registered.

Read and follow all label directions for use for other pesticides used as tank mix partners with Javelin® WG for specific rate recommendations, application timing, and precautions.

Mixing:

Fill spray or mixing tank 3/4 full. Turn on agitation and pour JAVELIN® WG into water while maintaining continuous agitation. Add other spray material (if any) and add balance of water. Agitate as necessary to maintain suspension. Do not allow diluted sprays to remain in the tank for more than 48 hours. JAVELIN® WG is formulated to provide desirable coverage and adherence to leaf surfaces. Additional adjuvants, spreaders, or stickers may be added to improve product performance, especially under heavy dew or rainy conditions. Combinations with commonly used insecticides, fungicides, or other spray tank adjuvants are generally not deleterious to JAVELIN® WG 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.

GROUND APPLICATION

Unless otherwise stated, use recommended amount of JAVELIN® WG in a minimum of 20 gallons of water per acre depending on type of crop and requirements of state regulations. If lower volumes are used, proper application equipment must be used to insure adequate coverage. Thorough and uniform crop coverage is required for adequate insect control.

AERIAL APPLICATION

Use recommended amount of JAVELIN® WG in at least 3 gallons of water per acre. Applications at higher water volumes have demonstrated improved control of targeted pests. Apply early morning or evening when air is calm.

INSECTS CONTROLLED
WHEN USED AS DIRECTED, JAVELIN® WG WILL CONTROL THE FOLLOWING INSECTS

COMMON NAME	SCIENTIFIC NAME
Alfalfa caterpillar	<i>Colias eurytheme</i> Boisduval
Almond moth	<i>Cadra cautella</i> (Walker)
Armyworm	<i>Pseudaletia unipuncta</i> (Haworth)
Artichoke plume moth	<i>Platyptilla carduidactyla</i> (Riley)
Bagworm	<i>Thyridopteryx ephemeraeformis</i> (Haworth)
Banana skipper	<i>Erionota thrax</i> (Haworth)
Bertha armyworm	<i>Mamestra configurata</i>
Blueberry leafrollers	various
Blueberry spanworm	<i>Itame argillacearia</i> (Pack.)
Bollworm	<i>Helicoverpa zea</i> (Boddie)
California oak moth	<i>Phrygnidia californica</i> (Packard)
Cherry fruitworm	<i>Grapholita packardi</i> Zeller
Citrus cutworm	<i>Xylomyges curialis</i>
Codling moth	<i>Cydia pomonella</i> (Linnaeus)
Cotton leafworm	<i>Alabama argillacea</i> (Hubner)
Cotton leafperforator	<i>Bucculatrix thurberiella</i> Busck
Cutworm	various, family Noctuidae
Diamondback moth	<i>Plutella xylostella</i> (Linnaeus)
Douglas-fir tussock moth	<i>Orgyia pseudotsugata</i> (McDunnough)
Elm spanworm	<i>Ennomos subsignaria</i> (Hubner)
European corn borer	<i>Ostrinia nubilalis</i> (Hubner)
Fall cankerworm	<i>Alsophila pometaria</i> (Harris)
Fall webworm	<i>Hyphantria cunea</i> (Drury)
Filbert webworm	<i>Melissopus latiferreanus</i> (Walsingham)
Fruittree leafroller	<i>Archips argyrospila</i> (Walker)
Grape leaffolder	<i>Desmia funeralis</i> (Hubner)
Grapeleaf skeletonizer	<i>Harrisina americana</i> (Guerin)
Green cloverworm	<i>Plathypena scabra</i> (Fabricius)
Green fruitworm	<i>Lithophane antennata</i> (Walker)
Gypsy moth	<i>Lymantria dispar</i> (Linnaeus)
Helicoverpa spp.	<i>Helicoverpa</i> spp.
Heliopsis spp.	<i>Heliopsis</i> spp.
Hornworms	<i>Manduca</i> spp.
Imported cabbageworm	<i>Pieris rapae</i> (Linnaeus)
Jack pine budworm	<i>Chloristoneura pinus</i> Freeman
Loopers	various
Mimosa webworm	<i>Homadaula anisocentra</i> Meyri
Naval orangeworm	<i>Amyelois transitella</i> (Walker)

COMMON NAME	SCIENTIFIC NAME
Obliquebanded leafroller	<i>Choristoneura rosaceana</i> (Harris)
Ominiverous leafroller	<i>Platynota stultana</i>
Omniverous leaf-tier	<i>Cnephasia longana</i> (Haworth)
Orangedog	<i>Papilio cresphontes</i> Cramer
Orange tortrix	<i>Argyrotaenia citrana</i> (Fernald)
Oriental fruit moth	<i>Grapholita Molesta</i> (Busck)
Pandimus leafroller	<i>Pandimus pyrusana</i>
Peach twig borer	<i>Anarsia lineatella</i> Zeller
Pecan nut casebearer	<i>Acrobasis nuxvorella</i> Neunzig
Redbanded leafroller	<i>Argyroteenia velutinana</i> (Walker)
Redhumped caterpillar	<i>Schizura concinna</i> (J.E. Smith)
Rindworm complex	various
Roughskinned cutworm	<i>Athetis mindara</i> (Barnes & McDunnough)
Saltmarsh caterpillar	<i>Estigmene acrea</i> (Drury)
Sod webworm	<i>Crambus mutabilis</i>
Southwestern corn borer	<i>Diatraea grandiosella</i> Dyar
Spotted cutworm	<i>Xestia spp.</i>
Spring cankerworm	<i>Paleacrita vernata</i> (Peck)
Spruce budworm	<i>Choristoneura fumiferana</i> (Clemens)
Tent caterpillar	various, family Lasiocamidae
Tobacco budworm	<i>Helicoverpa virescens</i> (Fabricius)
Tobacco hornworm	<i>Manduca sexta</i> (Linnaeus)
Tomato pinworm	<i>Keiferia lycopersicella</i> (Walsingham)
Tropical sod webworm	<i>Herpetogramma phaeopteralis</i> Guenee
Tufted apple bud moth	<i>Platynota idaeusalis</i> (Walker)
Variogated leafroller	<i>Platynota flavedana</i> (Clemens)
Velvetbean caterpillar	<i>Anticarsia gemmatilis</i> (Hubner)
Western tussock moth	<i>Orgyia vetusta</i> (Boisduval)

Rate Selection Considerations

Rate recommendations are typically given as a range:

Lower rate ranges may be desired when tank mixing with contact insecticides labeled for worm control or under conditions of light worm infestations or when uniformly small worms are present.

Medium rate ranges may be desired when multiple worm life stages are present, continuous egg hatches are occurring or young or light armyworm infestations exist.

Upper rate ranges may be desired for heavy worm infestations, mature (larger) worms or for moderate to heavy infestations of armyworm, bollworm or other difficult to control worm species.

Unless otherwise stated, use recommended amount of **JAVELIN® WG** in a minimum of 20 gallons of water per acre depending on type of crop and requirements of state regulations. Lower volumes may be used, but proper application equipment must be used to insure adequate coverage. Thorough and uniform crop coverage is required for adequate insect control.

RECOMMENDED APPLICATION RATES

CROPS	LBS./ACRE
VEGETABLE CROPS	
Artichokes ADDITIONAL INSTRUCTIONS: Apply in a minimum of 100 gal. of water per acre with a spray interval of 10 days or less. Apply 1 lb/A in combination with ASANA® XL, AMBUSH®, or SUPRACIDE® aerially to aid in resistance management of the artichoke plume moth. Use and follow all label directions of the tank mix partner regarding application, timing, gallonage, and schedules.	0.50-1.25
Asparagus, Beans (Green, Lima, Mung), Broccoli, Broccoli Raab (Rapini), Brussels Sprouts, Cabbage, Cardoon, Carrots, Cauliflower, Celery, Celery, Chick Peas, Chinese Broccoli, Chinese Cabbage, Collards, Cucumbers, Dry Bulb Onions, Eggplants, Garlic, Green Onions, Greens (Dandelion, Turnip, Mustard, Beet, China), Herbs (Basil, Cilantro, Dill, Oregano, Thyme, etc.), Horseradish, Kale, Kohlrabi, Leeks, Lettuce (Endive, Romaine, Head Lettuce, Escarole, Butter Crunch, Leaf, etc.), Melons (Cantaloupe, Crenshaw, Honeydew, Muskmelon, Watermelon, etc.), Okra, Onions, Parsley, Parsnips, Peas, Peppers, Potatoes, Pumpkins, Radishes, Rutabaga, Salsify, Spinach, Squash (Summer and Winter), Sweet Corn, Sweet Potatoes, Swiss Chard, Table Beets, Tomatoes, Turnip Root, Watercress, Yams ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control.	0.12-1.50
FIELD CROPS	
Alfalfa (Hay and Seed), Sudan Grass, Hay Crops & Other Forage Crops ADDITIONAL INSTRUCTIONS: Under conditions of rapid plant growth and rapidly increasing armyworm populations (10 worms or greater per 180° sweep) use the highest rate. Against heterogeneous worm populations, where 4th and 5th instars are present, and continuous egg laying is occurring, applications may provide variable control. Under these conditions, the addition of a contact insecticide in combination with JAVELIN® WG is recommended. The addition of a spreader sticker to JAVELIN® WG may provide improved	0.25-1.50

CROPS	LBS./ACRE
performance.	
Canola and Evening Primrose ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control.	0.12-1.50
Dry Beans and Peas, Lentils, Mint, Peanuts, Rice, Safflower, Soybeans, Sugar Beets, Sunflower, Sorghum ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control.	0.25-1.50
Field Corn, Pop Corn, Seed Corn ADDITIONAL INSTRUCTIONS: Make initial application when economically damaging populations exist. Repeat as necessary to maintain control. Applications must be made to early instars prior to entering the ear or plant.	0.50-1.50
Hops ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control. Begin treatment as soon as possible after hatching and before larvae are protected by leaf folds.	0.25-1.00
Jojoba ADDITIONAL INSTRUCTIONS: Apply in a minimum of 50 gallons of water per acre by ground equipment or a minimum of 10 gallons of water by aerial equipment. Thorough coverage of foliage is essential and dictates the minimum spray volumes necessary.	0.50-1.00
Small Grains ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control.	1.00-1.50
Tobacco ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control.	0.12-1.25
Cotton Including Arizona and California Early and Mid-Season ADDITIONAL INSTRUCTIONS: Repeat as necessary throughout season to maintain control. If egg laying frequency indicates future moderate to heavy worm populations, time application spray to coincide with the 2nd instar larvae. During periods of high temperatures, worms will progress through 1st and 3rd instars very rapidly and early application timing is necessary for control.	0.50-1.50

CROPS	LBS./ACRE
<p>To be effective, JAVELIN® WG spray must be deposited at the larval feeding site. When plant cover is dense and worms are feeding in the lower 2/3 portion of the plant, aerial application of JAVELIN® WG may not provide adequate control.</p> <p>For the suppression of light to moderate infestations, apply at first sign of egg-laying or newly-hatched worms (1st instar larvae).</p> <p>Except Arizona and California</p> <p>Early</p> <p>ADDITIONAL INSTRUCTIONS: For early season management of <u>Helicoverpa</u> and <u>Heliothis</u> species. Initiate applications when 50% of plants are at pinhead square cotton stage, independent of <u>Helicoverpa</u> and <u>Heliothis</u> egg and larval counts, or at 1st egg lay, whichever occurs earlier. Continue applications on 5-day spray interval up to synthetic pyrethroid spray window.</p> <p>For added control of <u>Helicoverpa</u> and <u>Heliothis</u>, tank mixing of JAVELIN® WG with a labeled ovicide, such as, methomyl (0.125 lb a.i./acre), profenofos (0.25 lb. a.i./acre), or thiodicarb (0.125-0.25 lb a.i./acre) is recommended.</p> <p>Read and follow all directions for use, precautions and restrictions on tank mix product labels.</p>	<p>0.25-1.25</p>
FRUIT, NUT, & VINE CROPS	
<p>Apples and Pears</p> <p>ADDITIONAL INSTRUCTIONS: Apply when newly hatched larvae appear and before leaves are rolled. Continue applying as a part of the normal cover spray program until pest is adequately controlled. Apply when caterpillars are actively feeding (2nd-4th instars).</p>	<p>0.50-4.00</p>
<p>Avocados</p> <p>ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control. Begin treatment as soon as possible after hatching and before larvae are protected by leaf folds.</p> <p>(Amorbia [Mexican leafroller] is suppressed only.)</p>	<p>0.50-1.25</p>
<p>Bananas</p>	<p>0.50-1.00</p>

CROPS	LBS./ACRE
ADDITIONAL INSTRUCTIONS: Hawaii only. Use calibrated ground equipment with adequate water to apply to point of runoff.	
Citrus ADDITIONAL INSTRUCTIONS: Use 50-600 gallons of water per acre when using ground equipment and 10 gallons of water minimum per acre by air. (Amorbia [Mexican leafroller] is suppressed only.)	0.25-1.50
Blueberries, Caneberries, Currants, Kiwi ADDITIONAL INSTRUCTIONS: Apply by ground or aerial equipment using enough water to provide adequate coverage. Begin treatment as soon as possible after hatching. For leafrollers, apply before larvae are protected by leaf-folds.	0.25-1.00
Grapes ADDITIONAL INSTRUCTIONS: Apply by ground equipment in up to 200 gallons total sprayer acre to obtain thorough coverage of leaf surfaces. Start treating as soon as possible after hatching and before larvae are protected by leaf folds.	0.50-1.25
Almonds, Apricots, Cherries, Filberts, Nectarines, Peaches, Pecans, Persimmons, Plums, Pomegranate, Prunes, Walnuts ADDITIONAL INSTRUCTIONS: For leafrollers, start treating as soon as possible after hatching and before larvae are protected by leaf folds. Apply when caterpillars are actively feeding (2nd to 4th instar). Application timing is very important for good casebearer suppression. Consult your local university or extension agent for information concerning specific modeling that predicts egg lay, typical application dates, and scouting techniques for your area. JAVELIN® WG must be present at egg hatch for best control. Make application when the majority of eggs are in the pink stage. For best control make two applications 7 days apart. If only one application is made, a minimum of 1 lb. should be applied.	0.25-4.00
Melons (Also see vegetables.) ADDITIONAL INSTRUCTIONS: Apply at first sign of hatch before larvae enter fruit. Repeat as necessary to maintain control.	0.50-0.75

CROPS	LBS./ACRE								
<p>Strawberries</p> <p>ADDITIONAL INSTRUCTIONS: Apply as necessary to maintain control. Use 20 gallons water minimum per acre when using ground equipment and 5 gallons water minimum per acre by aircraft.</p> <p>In a tank mix with contact insecticides, rates as low as 1/2 lb. of JAVELIN® WG may be used for the control of armyworm.</p>	0.25-1.50								
<p>SHADE TREES and ORNAMENTALS (INCLUDING ROSES)</p> <p>ADDITIONAL INSTRUCTIONS: Apply when leaf expansion reaches 40% to 50% as infestation warrants. If eggs hatch over a long period of time, or if reinfestation occurs, spray about 14 days after first application.</p> <p>Apply when most larvae are 3rd-4th instar. Also consider the opening of the bud cap to ensure foliage exposure.</p> <p>Apply after eggs have hatched and early instar larvae are feeding on exposed foliage.</p>	0.12-1.25								
<p>TURF AND GRASS SEED PRODUCTION</p> <p>ADDITIONAL INSTRUCTIONS: Repeat as necessary throughout season to maintain control.</p>	1.00								
<p>STORED SOYBEANS, GRAINS (INDIAN MEAL MOTH, ALMOND MOTH)</p> <p>ADDITIONAL INSTRUCTIONS: To control and prevent Indian Meal Moth and Almond Moth infestations of stored soybeans and grains, prepare a spray mixture which includes 1 gallon of water for every 1.5 oz. by weight of JAVELIN® WG. The spray mixture may be applied either by treating the top 4 inches of grain as it is being augered into storage (applying 0.6 pint of mixture per bushel in the grain stream), or by treating the surface of grain after it is in the bin. The Table below can be used as a guide in determining the total amount of JAVELIN® WG needed according to the bin diameter or the number of bushels to be treated.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Bin Diameter (ft.)</th> <th style="text-align: center;">Surface Area (sq. ft.)</th> <th style="text-align: center;">Bushels (to 4 in. depth)</th> <th style="text-align: center;">JAVELIN® WG Rate (by weight)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;"> <div style="display: flex; justify-content: space-around;"> Grams oz. </div> </td> </tr> </tbody> </table>	Bin Diameter (ft.)	Surface Area (sq. ft.)	Bushels (to 4 in. depth)	JAVELIN® WG Rate (by weight)				<div style="display: flex; justify-content: space-around;"> Grams oz. </div>	
Bin Diameter (ft.)	Surface Area (sq. ft.)	Bushels (to 4 in. depth)	JAVELIN® WG Rate (by weight)						
			<div style="display: flex; justify-content: space-around;"> Grams oz. </div>						

187.0

CROPS				LBS./ACRE
8	50	13	21	0.75
12	113	30	50	1.75
16	201	53	85	3.00
20	314	84	120	4.25
24	452	120	185	6.50
28	615	163	255	9.00
32	804	214	326	11.50

To insure thorough coverage when making applications to the grain surface after it is in the bin, apply spray mixture in three (3) applications. Mix the grain with a scoop or rake to a depth of four (4) inches after each application.

Stored grain may be treated anytime, but for best results, treat grain at the time it is placed into storage or shortly thereafter, or in the early spring prior to egg-laying. Full season control is normally experienced. Re-treat only if reinfestation occurs.

For the protection of bagged grain, apply spray mixture to entire grain mass, and mix thoroughly prior to bagging. JAVELIN® WG at 6 oz. by weight per 10 gallons of water will treat approximately 100 bushels.

Treated grain may be used at any time after treatment.

FLOWERS AND ORNAMENTALS

JAVELIN® WG may also be used on flowers and ornamentals outdoors and in the greenhouse at a rate of 0.25 - 1.50 lb. per 100 gallons of water for control of listed insects on this label.

GUIDE FOR SMALL SPRAY VOLUME MIXING

Rate Lbs./A	Conversion Rate* Teaspoons/Gallon
1/4	1/2
1/2	1
1	2

* Assumes Application to spray runoff.

STORAGE AND DISPOSAL

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

Storage: Store in original container in a cool, dry place inaccessible to children and pets and away from heat and direct sunlight. Protect from freezing. Storage at temperatures above 90°F may impair effectiveness.

Pesticide Disposal: Pesticide, spray mixture, or rinse water that cannot be used according to label instruction must be disposed of according to Federal, State, or Local procedures.

Container Disposal: Completely empty container into application equipment. 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.

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AND LIMITATION OF LIABILITY**

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