53883-134	5 09/17/	2004	
AND	U.S. ENVIRONMENTAL PROTECTION AGENC Office of Pesticide Programs Antimicrobials Division (7510C) 1200 Pennsylvania Avenue NW Washington, D.C. 20460	EPA Reg. Number: 53883-135	Date of Issuance: 09/17/04
Thing ANOTECTO	NOTICE OF PESTICIDE: Registration Reregistration	Term of Issuance Conditional	e:
under FIFRA, as am	ended)	Name of Pesticion Enfenvalerate	
	Registrant (include ZIP Code):		
Control Solutions, 903 Genoa-Red E Pasadena, TX 7750	Bluff		
e submitted to and	Deling differing in substance from that acce accepted by the Registration Division prior his product always refer to the above EPA re	to use of the label in com	
ancel the registrative the registrative use of the This produced that you . Submit and/or	health and the environment, the Administrat tion of a pesticide in accordance with the A on of a product under this Act is not to be a name or to its use if it has been covered uct is conditionally registered in accorda : cite all data required for registration of the Agency requires all registrants of sin	ct. The acceptance of any construed as giving the reg by others. ance with FIFRA sec 3(c your product under FIF)	name in connection fistrant a right to c)(7)(A) RA sec.
submit accepta	ble responses required for reregistration wing labeling changes:	-	
	EPA Registration Number to read: "EPA	A Registration Number	
ignature of Approvi	ng Official:	Date:	
Jeorge T. LaRoc		September 17	, 2004
Froduct Manager Insecticide Brancl	(RM 13) n/Registration Division (7505C)		
Form 8570-6		1 	

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- b. Under "Limitation of Warranty and Liability" statement (7th paragraph, 1st statement): Delete the "shall" on the 1st line to change the sentence from "To the extent permitted by law shall Control Solutions, Inc. or seller shall not be liable of this product." to "To the extent permitted by law, Control Solutions, Inc. or seller shall not be liable of this product."
- 3. Submit two (2) copies of the final printed label bearing the aforementioned revisions prior to releasing this product for sale.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Enclosure

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RESTRICTED USE PESTICIDE

DUE TO TOXICITY TO FISH AND AQUATIC ORGANISMS

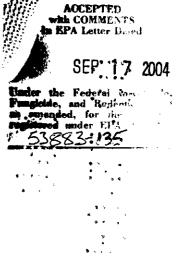
For retail sale to and use only by Certified Applicator or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Esfenvalerate AG

Active Ingredient:	By Wt.
Esfenvalerate	-
(S)-cyano (3-phenoxyphenyl) methyl (S)-4-chloro-alpha-(1-methylethy	yl)
Benzeneacetate	8.4%
Inert Ingredients*	<u>91.6%</u>
Total	100.0%

*Contains xylene range aromatic solvent This product contains 0.66 lbs. Active Ingredient per gallon.

NET CONTENTS _____



3/27

KEEP OUT OF REACH OF CHILDREN WARNING / AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

· · · · · · · · · · · · · · · · · · ·	FIRST AID
	or label with you when calling a poison control center or doctor, or going for ontact the Poison Control Center 800-222-1222 for emergency medical
If swallowed	 Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
If inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
If on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If in eyes	 Hold eye open and rinse slowly and gently with water 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing eye. Call a poison control center or doctor for treatment advice.
	or label with you when calling a poison control center or doctor, or going for ontact the Poison Control Center 800-222-1222.
Note to Physician – Conta If on skin, after drying appl	ins xylene range aromatic solvent – vomiting may cause aspiration pneumonia. y vitamin E cream or oil if available. If not available, apply vegetable oil The oil or cream may be used repeatedly until relief is achieved.

HAZARD TO HUMANS (AND DOMESTIC ANIMALS)

WARNING! May be fatal if swallowed. Harmful if inhaled. Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

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 E on an EPA chemical-resistance category selection chart. Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

Chemical-resistant gloves, such as Barrier Laminate or Neoprene Rubber or Nitrile Rubber or Viton. Shoes plus socks.

Protective evewear.

Discard clothing or 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.

1.1.1

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENGINEERING CONTROL 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 [40CFR part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or when disposing of equipment wash-waters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops if bees are visiting the treatment area.

WILDLIFE PROTECTION IS EVERYONE'S REPONSIBILITY

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with the 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 the 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 on this product that are covered by the Worker Protection Standard. 5/2

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 Protections Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coveralls.

Chemical-resistant gloves, such as Barrier Laminate or Neoprene Rubber or Nitrile Rubber or Viton. Shoes plus socks.

Protective eyewear.

GENERAL INFORMATION

ESFENVALERATE AG insecticide 0.66 Emulsible Concentrate contains 0.66 pounds of active ingredient per gallon. For the applications given below, mix the required amount of ESFENVALERATE AG in sufficient diluent to provide uniform coverage (Refer to Use Tables). ESFENVALERATE AG may be applied by ground or aerial application equipment.

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.

INTEGRATED PEST MANAGEMENT

Control Solutions, Inc. recommends the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an Integrated Pest Management (IPM) program, which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices and including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

SPRAY PREPARATION

Spray equipment must clean and free of previous pesticide deposits before applying ESFENVALERATE AG.

SPRAY TANK CLEANOUT

Immediately following application of ESFENVALERATE AG, thoroughly clean all mixing and spray equipment. Flush the tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately). Take all necessary precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose waste rinse water in accordance with local regulations.

TANK MIXING

Do not tank mix ESFENVALERATE AG with fungicides containing fentin hydroxide (triphenyltin hydroxide) such as "Super Tin" as crop injury may result.

ESFENVALERATE AG may be tank mixed with the DuPont herbicide products when insect populations require control concurrent with the need for weed control. Follow all herbicide and ESFENVALERATE AG label directions regarding proper usage. A "jar test" for physical compatibility should be conducted before field mixtures are made and applications initiated. For best results, use of spray equipment having continuous agitation is recommended.

ESFENVALERATE AG may be used in combination with 2, 4-D herbicides providing that the following mixing directions are follows: (1) Do not apply the combination in a volume of water less than 2 gallons per acre total spray. (2) Always mix the ESFENVALERATE AG thoroughly in the total volume of spray water first, followed by the addition of the 2,4-D herbicide. Because of the availability of a great variety of 2,4-D herbicide products, a jar test for physical compatibility should be conducted before field mixtures of a particular combination are made.

CHEMIGATION

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) row, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. ESFENVALERATE AG may be premixed in a supply tank with water, oil, fertilizer, or other appropriate tank mixed agricultural chemicals. A pretest of physical compatibility for untried tank mixes is advised. Agitation may be necessary. Application should be in sufficient water and of sufficient duration to apply the recommended rate evenly to the entire treated area. No run-off can be permitted during chemigation. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. Do not apply when wind speed favors drift beyond the area intended for treatment.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. 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.

Do not connect an irrigation system (including greenhouse systems) used for ESFENVALERATE AG application to a public water system.

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.

CROP ROTATION ALL ROTATION CROPS MAY BE PLANTED IMMEDIATELY FOLLOWING LAST APPLICATION.

SPRAY RECOMMENDATIONS AND PRECAUTIONS

• All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS, MARSHES, OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.

- Do not apply by ground within 25 feet, or by air within 150 feet of lakes; reservoirs; rivers; permanent streams, marshes, or natural ponds; estuaries and commercial fish farm ponds. Increase the buffer zone to 450 feet when ultralow volume (ULV) application is made.
- For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of wing span or rotor diameter.
- Use the largest droplet size consistent with good pest control. Formation of very small droplets may be minimized by appropriate nozzle selection, by orientating nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
- Spray should be released at the lowest height consistent with pest control and flight safety. Applications more that 10 feet above the crop canopy should be avoided.
- Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when winds gusts approach 15 mph.
- Risk of exposure to aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.
- Do not cultivate within 10 feet of the aquatic area so as to allow growth of a vegetative filter strip.
- Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.
- Do not make aerial or ground applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

8/27

SPECIFIC USES-COTTON

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Сгор	Insect	Applica	tion rate	Acres treated per Gal of ESFENVALERATE AG	Last Application (days to harvest)	
		lb i/acre	fl oz/acre			
Cotton	Cotton Bollworm Tobacco Budworm Boll Weevil Beet Armyworm* Cabbage Looper Saltmarsh Caterpillar Cotton Leafworm Cutworms Lygus Bugs Plant Bugs Thrips (on seedling cotton) Leafhoppers Fleahoppers Grasshoppers Whitefly** Cotton Aphid Pink Bollworm	0.03-0.05	5.8-9.6	22 - 13	21	
	Note: For light infestation of The above insects	0.02	3.9	33		
	Cotton Leaf Perforator	0.03	5.8	22	-	
	Cotton Lear Periorator0.035.822To control Boll Weevil infestations, a 3 to 5 day interval between applications may be necessary.May be applied in water or nonvolatile vegetable oils.May be applied in water or nonvolatile vegetable oils.When applying ESFENVALERATE AG in an oil carrier, apply a total spray volume of at least 1 qt per acre.When applying ESFENVALERATE AG in water carrier, apply at least 1 gal per acre by air (at least 3 gal per acre in Arizona and 5 gal per acre in California) or 4 gal per acre by ground.Do not apply more than 0.5 lb ai per acre per season. Do not graze livestock on treated fields or feed treated trash.ESFENVALERATE AG can provide contact ovicidal effect on Heliothis spp, eggs when applied according to label directions for control of tobacco budworm; application should be timed to correspond with peak egg deposition to achieve maximum ovicidal effect. Use on this pest stage (egg) is not registered in California.					
	Do not make more than a total of 1 combination of products) to a cotto products include "Ambush" insect insecticide, "Baythroid" emulsifial "Danitol 2.4 EC" Spray insecticide "Karate" Insecticide, "Mustang" in insecticide.	on crop in one icide, "Ammo ble pyrethroid e/miticide, "D	growing seas "insecticide. insecticide, "e ecis" insectici	on. Synthetic pyrethroid ESFENVALERATE AG Capture" insecticide/miticide, de, "Fury" insecticide,		

SPECIFIC USES-FIELD CROPS

<u> </u>	PECIFIC USES-FIELD CROP				
,		Applicat	Application Rate		
Сгор			fl oz/acre	Acres treated per gal of ESFENVALERATE AG	Last Application (days to harvest)
Corn (field)†	Insect Cutworm	0.03 - 0.05	5.8 - 9.6	22 - 13	21
	Grasshopper Corn Earworm Stalk Borer Flea Beetle Corn Rootworm (adult control) Chinch Bug Southwestern Corn Borer Armyworm (True Armyworm) Corn Leaf Aphid Oat Bird-Cherry Aphid				
	Cutworm, Grasshopper – App after planting as required to pro with herbicides and/or fertilizer. AG with these products. Follow regarding proper usage. Corn Earworm – First applicat should be made at 3 – 5 day inte Stalk Borer, Flea Beetle – App	tect emerging or en s should be determ v all herbicide/ferti tion should be at or ervals until silking	nerged corn seed ined prior to tank lizer recommend before silking. S is completed.	lings. Physical compatibility mixing ESFENVALERATE ations and directions Subsequent applications	
	corn, before borers enter the pla Adult Corn Rootworm – Appl Should reinfestation occur, repe	nt. y at the first sign o			

	 ESFENVALERATE AG may be tank-mixed with Parathion (Methyl) and applied on field corn (and seed corn) where supplemental control of Adult Corn Rootworm is desired in conjunction with insects controlled by ESFENVALERATE AG when used alone. Refer to the ESFENVALERATE AG and Parathion (Methyl) labels for appropriate rates of the individual products for controlling the respective insects. Chinch Bugs – Over the top sprays, as used for control of ear and stalk infesting corn pests, are not adequate for chinch bug control. It is very important that the spray be directed at the base of the plant through the use of drop nozzles or some other mechanism. Southwestern Corn Borer – Two or more applications may be required. For moderate to heavy infestations, higher rates (0.036-005 lb ai per acre) are recommended. Corn leaf Aphid, Oat Bird-Cherry Aphid – For optimum results, direct the spray at the aphid population so as to achieve maximum coverage of the exposed insects. Aphids not contacted by the spray, such as in whorls and leaf axils, may not be adequately controlled. 						
	European Corn Borer	0.04 - 0.05	7.8 - 9.6	16 - 13			
	 First brood: Spray while eggs are the blackhead stage or before the larvae enter the whorl. Application by ground equipment is suggested. Good coverage of both upper and lower leaf surfaces is essential. This can be accomplished with drop nozzles over the row and on each side of the corn plant. Multiple applications may be required when egg laying is prolonged or where moderate to heavy populations are present. A higher rate is recommended for moderate to heavy populations. Proper coverage by ground equipment usually requires 20 – 30 gallons of carrier. Once larvae enter the whorl, foliar sprays will not provide adequate control. Second brood: Make applications when sufficient egg masses are found. Spray when eggs are in the blackhead stage or starting to hatch. When egg laying is prolonged or a third generation is 						
	present, additional sprays may be required. A higher rate is recommended for moderate to heavy populations. Good coverage above, below, and in the ear zone is essential. This usually requires $2-3$ gallons of carrier by air. If ground equipment is used, drop nozzles on each side of the plant will provide best coverage.						
	ESFENVALERATE AG may be tank-mixed with Parathion (methyl) and applied on field corn (and seed corn) where supplemental control of European Corn Borer is desired in conjunction with insects controlled by ESFENVALERATE AG when used alone.						
	Refer to the ESFENVALERATE AG and Parathion (methyl) labels for appropriate rates of the individual products for controlling the respective insects.						
	Western Bean 0.015 - 0.03 2.9 - 5.8 44 - 22 Cutworm 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 - 0.03 0.015 -						
	Apply before larvae enter †Do not apply more that		er season.				
Corn (seed)	For specific insect control Follow directions carefully		er to Field Corn (a	bove).	1		
	Multiple applications and/or shortened intervals between sprays must be used to insure proper insect control. Do not apply more that 0.25 lb a.i. per acre per season.						

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Multiple applications and/or s insect control. Do not apply in Corn Earworm Red-necked Peanut Worm Potato Leafhopper Velvetbean Caterpillar Beet Armyworm* Granulate Cutworm Grasshoppers Cutworms Lesser Cornstalk Borer*			22 - 13	21		
Corn Earworm Red-necked Peanut Worm Potato Leafhopper Velvetbean Caterpillar Beet Armyworm* Granulate Cutworm Grasshoppers Cutworms Lesser Cornstalk Borer*	0.0150.03	2.9 - 5.8		21		
Granulate Cutworm Grasshoppers Cutworms Lesser Cornstalk Borer*	0.03-0.05	5.8 - 9.6	22 - 13			
	1					
Fall Armyworm**	0.05	9.6	13			
Do not feed or graze livestock on treated vines. Do not apply more than 0.15 lb a.i per acre per season. *Aids in control. **Aids in control. For heavy infestations use of DuPont TM LANNATE insecticide is recommended. Please refer to the LANNATE label for use instructions.						
Sorghum Midge	0.015 - 0.03	2.9 - 5.8	44 - 22	21		
Corn Earworm (headworm) Cutworms Chinch Bugs	0.03 - 0.05	5.8 - 9.6	22 - 13			
Do not apply more than 0.15 lb a.i. per acre per season. When applying in nonvolatile vegetable oils use a total spray volume of 1 or more qts per acre. Chinch Bug Control: For optimum results, spray should be directed at base of plants.						
Mexican Bean Beetle Green Cloverworm Velvetbean Caterpillar Potato Leafhopper Saltmarsh Caterpillar Woolybear Caterpillar	0.015 - 0.03	2.9 - 5.8	44 - 22	21		
Cabbage Looper Corn Earworm Southern Green Stinkbug Bean Leaf Beetle Cutworms Three-cornered Alfalfa Hopper Beet Armyworm* Grasshoppers	0.03 - 0.05	5.8 - 9.6	22 - 13			
	Do not apply more than 0.15 1 *Aids in control. **Aids in control. For heavy recommended. Please refer to Sorghum Midge Corn Earworm (headworm) Cutworms Chinch Bugs Do not apply more than 0.15 1 When applying in nonvolatile Chinch Bug Control: For opti Mexican Bean Beetle Green Cloverworm Velvetbean Caterpillar Potato Leafhopper Saltmarsh Caterpillar Woolybear Caterpillar Corn Earworm Southern Green Stinkbug Bean Leaf Beetle Cutworms Three-cornered Alfalfa Hopper	Do not apply more than 0.15 lb a.i per acre per *Aids in control.*Aids in control.**Aids in control.**Aids in control.For heavy infestations use or recommended.Please refer to the LANNATESorghum Midge $0.015 - 0.03$ Corn Earworm (headworm) $0.015 - 0.03$ Corn Earworm (headworm) $0.03 - 0.05$ Cutworms Chinch Bugs $0.015 - 0.03$ Do not apply more than 0.15 lb a.i. per acre per When applying in nonvolatile vegetable oils use Chinch Bug Control: For optimum results, sprational systemMexican Bean Beetle Green Cloverworm Velvetbean Caterpillar Potato Leafhopper Saltmarsh Caterpillar Woolybear Caterpillar $0.03 - 0.05$ Corn Earworm Southern Green Stinkbug Bean Leaf Beetle Cutworms Three-cornered Alfalfa Hopper Beet Armyworm* Grasshoppers $0.03 - 0.05$	Do not apply more than 0.15 lb a.i per acre per season. *Aids in control. *Aids in control. For heavy infestations use of DuPont TM LANNATH recommended. Please refer to the LANNATE label for use instruction Sorghum Midge 0.015 – 0.03 2.9 – 5.8 Corn Earworm 0.03 – 0.05 5.8 – 9.6 Cutworms Chinch Bugs 0.03 – 0.05 5.8 – 9.6 Cutworms Chinch Bug Control: For optimum results, spray should be directed at Mexican Bean Beetle 0.015 – 0.03 2.9 – 5.8 Green Cloverworm Velvetbean Caterpillar Potato Leafhopper Saltmarsh Caterpillar Woolybear Caterpillar Woolybear Caterpillar Southern Green Stinkbug Bean Leaf Beetle Cutworms Three-cornered Alfalfa Hopper Beet Armyworm* Grasshoppers	Do not apply more than 0.15 lb a.i per acre per season. *Aids in control. **Aids in control. For heavy infestations use of DuPont TM LANNATE insecticide is recommended. Please refer to the LANNATE label for use instructions. Sorghum Midge 0.015 - 0.03 2.9 - 5.8 44 - 22 Corn Earworm 0.03 - 0.05 5.8 - 9.6 22 - 13 Cutworms Chinch Bugs 0.015 - 0.03 2.9 - 5.8 44 - 22 Do not apply more than 0.15 lb a.i. per acre per season. When applying in nonvolatile vegetable oils use a total spray volume of 1 or more qts per acre. Chinch Bugs 0.015 - 0.03 2.9 - 5.8 44 - 22 Do not apply more than 0.15 lb a.i. per acre per season. When applying in nonvolatile vegetable oils use a total spray volume of 1 or more qts per acre. Chinch Bug Control: For optimum results, spray should be directed at base of plants. Mexican Bean Beetle 0.015 - 0.03 2.9 - 5.8 44 - 22 Green Cloverworm 0.03 - 0.05 5.8 - 9.6 22 - 13 22 - 13 Mexican Bean Beetle 0.03 - 0.05 5.8 - 9.6 22 - 13 22 - 13 Green Cloverworm 0.03 - 0.05 5.8 - 9.6 22 - 13 22 - 13 Cabbage Looper 0.03 - 0.05 5.8 - 9.6 22 - 13		

	When applying in nonvolatile Do not feed or graze livestock Do not apply more than 0.2 lb *Aids in control.	on treated fields.		at least 1 qt.			
Sugar Beets	Grasshoppers Beet Armyworms* Leafhoppers Cutworms (seedling spray) Saltmarsh Caterpillar Cabbage Looper Beet Webworm Flea Beetle (except CA)	0.03 - 0.05	5.8 - 9.6	22 - 13	21		
	Do not apply more that 0.15 lb ai/acre per season. Apply with ground or air equipment using sufficient water to provide uniform coverage (minimum of 2 gal of water per acre). *Aids in control.						
Sugarcane	Sugarcane Borer	0.03 - 0.05	5.8 - 9.6	22 – 13	21		
	Do not apply more than 0.2 lb	a.i/cre per season.	· · · · · · · · · · · · · · · · · · ·				
Sunflower	Sunflower Beetle (except CA)	0.0075 - 0.03	1.45 - 5.8	88 - 22	28		
	Grasshoppers Cutworms Heliothis (complex) Sunflower Moth Sunflower Seed Weevil Banded Sunflower Moth Beet Armyworm* Sunflower Maggott Leafhoppers Sunflower Stem Weevil	0.03 - 0.05	5.8 - 9.6	22 - 13			
	Do not apply more than 0.2 lb *Aids in control.	. ai/acre per season					

SPECIFIC USES – FRUITS AND NUTS

DILUTE SPRAY: Apply specified dosage per 100 gallons of water in a uniform spray applied to the point of drip with conventional ground equipment. Do not exceed maximum number of gallons per acre indicated. NOTE: In order to apply the correct amount of ESFENVALERATE AG insecticide to your orchard you must know the number of gallons of water needed to spray one acre of your trees to the point of drip. If you do not already know this gallonage, you should conduct a test to determine it. If you do not know how to conduct such a test with your equipment, you should ask for assistance from your equipment dealer or State Extension specialist.

CONCENTRATE SPRAY: APPLY SPECIFIED DOSAGE PER ACRE IN NO LESS THAN 30 GALS. OF WATER PER ACRE BY GROUND. WHEN APPLYING ESFENVALERATE AG BY AIR, CONSULT YOUR COOPERATIVE EXTENSION SERVE FOR APPLICATION GUIDELINES.

		Application Rate			Acres	Last
		Concen	trate Spray	Dilute Spray	treated per gal of ESFEN- VALER- ATE AG	Applica- tion (days to harvest)
Сгор	Insect	lb ai/acre	fl oz/acre	fl oz/ 100 gal.		
APPLES	Oblique Banded LeafrollerCodling MothVariegated LeafrollerWhite Apple LeafhopperTentiform Leaf MinerSan Jose Scale (fruit infestations only)Apple Aphid Tufted Apple Bud MothPlum Curculio Oriental Fruit Moth Apple Maggot Red-Banded Leafroller Lesser Appleworm Green Fruitworm Rosy Apple Aphid Plant Bugs (Tarnished Plant Bug, Stink Bugs)	0.025- 0.075	4.8 - 14.5	2.0-5.8	26-9	21
	Apple Ermine Moth (ID, OR & WA only)			3.0		
	Tufted Apple Bud Moth	0.04-0.075	8.0-14.5		16.9	a for y sudad (1978)

	(overwintering)							
	(MD, NC, NJ, PA,							
	VA, WV only)							
	Do not feed or graze livestock on treated orchard floors.							
	Do not apply more than ().525 lbs. a.i.	per acre pe	r season. Fo	or dilute spray a	apply 200 – 600		
	gals per acre, but do not a	apply more th	an 14.5 fl. (oz. of ESFE	NVALERATE	AG per acre		
	per treatment.							
	Plant Bug, Rosy Apple A							
	Use prebloom and post bloom spray timings recommended by State Extension Services. <u>Apple Ermine Moth</u> —Apply with 2 to 4 gallons of superior spray oil in 100 gallons of water in a spray-to-wet application to insure thorough coverage of all stems and branches where Apple Ermine Moth hibernacula are found. When using on apple nursery stock, do not treat bundled plants since it is difficult to achieve a full coverage application which could result in less than complete control. Make first application in the fall after 90% of leaf fall has occurred-usually after October 15.							
	Make a second application	n 7 to 14 day	a later					
	Note: Overwintering larv			wimately 30) days after ann	lication		
	<u>Tufted Apple Bud Moth (overwintering</u>)—For use on apple for the control of overwintering larvae of the tufted apple bud moth with directed ground application to the apple orchard							
	floor. Make one applicat							
	petal fall stage of apple.					••		
	Use the lower rate on sma							
	the higher rate on larger l	arvae (petal f	all stage of	apple) and/	or on moderate	to high		
	populations.							
		er acre to the orchard floor in no less than 30 gals of water per						
	acre by ground to obtain the							
	line to allow coverage of PRECAUTIONARY STA							
	ESFENVALERATE AG to the groundcover at the pink stage of apple development may be toxic to overwintering <i>Stethorus punctum</i> . <i>S. punctum</i> is a coccinellid insect and the major predator of spider mites in the MD, NC, NJ, PA, VA and WV fruit growing areas. This							
	predator overwinters in the same areas of the orchard groundcover as the tufted apple bud moth and moves into apple trees from mid-April through mid-May when maximum daily temperatures exceed 68° F. Emergence from the groundcover is 20-70% complete by the							
	pink stage and 90-100% of	complete by p	etal fall on	the apple cu	ultivar Yorking			
BLUEBERRY	Aphids (NJ only)	0.025-	4.8-9.6		26-13	14		
(except CA)	Blueberry Spanworm	0.05						
	Cherry Fruitworm*							
	Cranberry Fruitworm							
	Cranberry Weevil*							
	Grasshoppers							
	Leafhoppers Red Striped							
	Fireworm*							
	I.B.C.WOLW			Í				
	Blueberry Maggot	0.05	9.6		13			
	Black Vine Weevil	0.05	9.6		13			
	(adult control)				-			
	Strawberry Root							
	Weevil (adult control)							
	(OR, WA only)							
	Do not apply more than 0		er season (38.4 fluid o	unces of			
	product per acre per seaso							
	Use of ground application		nded; for gr	ound applic	ation use a			
	minimum of 50 gals wate	r per acre.						

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Do not apply this product through any type of irrigation system. Note: ESFEWALERATE AG can act as a bee repellent, do not apply within 7 days of pollination. Apply as a pre-bloom or post-bloom spray only, *Aids in control. Black vine weevil & strawherry root weevil (adult control) (OR. WA, only): Look for leaf nothing beginning in late May to early June as the first sign of weevil feeding. Also check for adults on or just below the soil surface around the base of plants. Apply ESFENVALERATE AG within two to three weeks of first sign of infestation. Do not apply by air, apply by ground using a minimum of 50 gallons of water per are. Direct spray to provide full coverage of foliage and soil area around base of plants. Best results are form applications mude affer dark when temperatures are warm and weevils are actively feeding. Root weevils emerge over a several week period, make additional applications when signs of new feeding appear. CANEBERRIES (blackberries, boysenberries, logan herries, youngberries, logan herries, youngberries, logan berries, youngby more than 0.15 b ai per aree per season. Do not apply more than 0.15 b ai per aree per season. Do not apply more than 0.15 b ai per aree per season. Do not apply more than 0.15 b ai per aree per season. Do not apply more than 0.15 b ailons of water per are. Direct spray to poly day so bfore harvest. Adult Root Weevils; Look for leaf notching beginning in late May to early indice around the base of plants. Apply so a full coverage spray in a minimum of 50 gallons of water per aree. Direct spray to provide through norvest. Adult Root Weevils; Look for leaf notching beginning in late May to early before harvest. Adult Root Weevils; Look for leaf notching beginning in late May to early by ground usin		· · · · · · · · · · · · · · · · · · ·							
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applications when signs of new feeding appear. NOTE: ESFENVALERATE AG can act as a bee repellent, do not apply within 7 days of pollination. Apply as a pre-bloom or post-bloom spray only. Remove bees prior to application. For maximum safety to bees, apply ESFENVALERATE AG in the evening after sunset.PEARPear Psylla Codling Moth Green Fruitworm Plum Curculio Leafrollers Pear Slug Periodical Cicada0.025- 0.0754.8-14.5 Line2.0-5.8 Line 2.0-5.826-9 Line 2.0-5.828									
NOTE:ESFENVALERATE AG can act as a bee repellent, do not apply within 7 days of pollination. Apply as a pre-bloom or post-bloom spray only. Remove bees prior to application. For maximum safety to bees, apply ESFENVALERATE AG in the evening after sunset.PEARPear Psylla Codling Moth Green Fruitworm Plum Curculio Leafrollers Pear Slug Periodical Cicada0.025- 0.0754.8-14.5 Leafrollers Leafrollers Leafrollers26-9 Leafrollers Leafrollers					and subsequ	ieilt i			
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only. Remove bees prior to application. For maximum safety to bees, apply ESFENVALERATE AG in the evening after sunset.PEARPear Psylla Codling Moth Green Fruitworm Plum Curculio Leafrollers Pear Slug Periodical Cicada0.025- 4.8-14.54.8-14.5 2.0-5.826-9 2828					•				
apply ESFENVALERATE AG in the evening after sunset.PEARPear Psylla0.025-4.8-14.52.0-5.826-928Codling Moth0.0750.0754.8-14.52.0-5.826-928Green FruitwormPlum Curculio4.8-14.54.8-14.54.8-14.54.8-14.54.8-14.5Pear SlugPear Slug4.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.5Pear SlugPear Slug4.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.5Pear SlugPear Slug4.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.5Pear Slug4.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.5Pear Slug4.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.5Pear Slug4.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.5Pear Slug4.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.5Pear Slug4.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.5Pear Slug4.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.5Pear Slug4.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.5Pear Slug4.8-14.54.8-14.54.8-14.54.8-14.54.8-14.54.8-14.5<									
PEARPear Psylla Codling Moth Green Fruitworm Plum Curculio Leafrollers Pear Slug Periodical Cicada0.025- 0.0754.8-14.5 2.0-5.826-928						to bees,			
Codling Moth 0.075 Green Fruitworm Plum Curculio Leafrollers Pear Slug Periodical Cicada Image: Control of the second seco		apply ESPENVALERAT			1				
Green Fruitworm Plum Curculio Leafrollers Pear Slug Periodical Cicada				1 A X-14 5	2.0-5.8	26-9	- 7V		
Plum Curculio Leafrollers Pear Slug Periodical Cicada	PEAR	Pear Psylla		4.0 1.4.5		I I I I I I I I I I I I I I I I I I I	20		
Leafrollers Pear Slug Periodical Cicada	PEAR	Pear Psylla Codling Moth		4.0 14.5			20		
Pear Slug Periodical Cicada	PEAR	Pear Psylla Codling Moth Green Fruitworm		4.0 14.5			20		
Periodical Cicada	PEAR	Pear Psylla Codling Moth Green Fruitworm Plum Curculio		4.0 14.5			20		
	PEAR	Pear Psylla Codling Moth Green Fruitworm Plum Curculio Leafrollers		1.0 11.3			20		
Do Not apply more than 0.375 lbs. a i ner acre per season	PEAR	Pear Psylla Codling Moth Green Fruitworm Plum Curculio Leafrollers		1.0 [11.5			20		
	PEAR	Pear Psylla Codling Moth Green Fruitworm Plum Curculio Leafrollers Pear Slug		4.0 [11.5			20		

PEAR (dormant)	Do not apply more than 0.225 lb. a.i. per acre between bloom and harvest.Do not feed or graze livestock on treated orchard floors. For dilute spray apply 200 – 600 gals per acre, but do not apply more than 14.5 fl. oz. of ESFENVALERATE AG per acre per treatment.Pear Psylla0.05-0.19.6-19.27.3-12.813.2-6.6Apply during dormant to prebloom (whitd bud) stage only. Do not apply more than 0.2 lb. a.i. per acre per season. Do not graze orchard floor. For 					
STONE FRUITS (including apricots, cherries, nectarines, peaches, plums, prune plums)	Peach Twig Borer Oriental Fruit Moth Peach tree Borer Plum Curculio Lesser Peach Tree Borer Periodical Cicada Cherry Fruit Fly Western Cherry Fruit Fly American Plum Borer Black Cherry Aphid Leafrollers Leafhoppers Green Fruitworm Plant Bugs (Tarnished Plant Bug, Stink Bugs)	0.025- 0.075	4.8-14.5	2.0-5.8	26-9	14
	Peach Twig Borer (Dormant) (CA only) Tufted Apple Bud Moth (overwintering) (Peach only) (MD, NC, NJ, PA, CA and only)	0.04- 0.075 0.04- 0.075	8-14.5 8.0-14.5	3.1-5.8	16-9	16-9

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	Do not apply more than 0					
	than 0.3 lbs. a.i. per acre per season between bloom and harvest. For dilute					
	spray apply 200 – 400 ga					
	of ESFENVALERATE A	• •	er treatment	t. Do not gi	raze livestock	
	on treated orchard floors.					
	Peach Tree Borer, Americ					
	Apply as directed trunk a		mb spray. '	Thorough c	overage of	
	trunk and scaffold limbs i					
	Peach Twig Borer, Plum					
	Western Cherry Fruit Fly.					
	<u>Cicada Control</u> – Apply b		ayer to achi	eve thoroug	gh coverage of	
	all aerial portions of the tr					
	Plant Bug Control - Time					
	Use prebloom and postblo	oom spray tin	nings recom	imended by	State	
	Extension Services.					
	Peach Twig Borer (Dorma	<u>ant)—</u> Make a	pplication	with an EPA	A registered	
	dormant oil; for specific r	ecommendati	ions on use	of oil consu	ılt	
	manufacturer's label. For	r best perform	ance, groui	nd applicati	on equipment	
	is recommended.					
	Tufted Apple Bud Moth (
	of overwintering larvae of					
	application to the peach o					
	ESFENVALERATE AG	at either pope	corn stage o	f peach or a	at shucksplit	
	stage of peach.					
	Use the lower rate on sma					
	populations. Use the high			shucksplit	stage of	
	peach) and/or on moderat					
	Apply specific dosage per					
	of water per acre by grour					
	in a band from trunk to dr					
	overwintering tufted apple				JNARY	
	STATEMENT - BENEFI					
	ESFENVALERATE AG					
	development may be toxic	c to overwint	ering Steind	orus punciu	m. S. puncium	
		At		1 Jan malana 1		
	is a coccinellid insect and				n the MD,	
	is a coccinellid insect and NC, NJ, PA, VA and WV	fruit growing	g areas. Th	is predator	n the MD, overwinters in	
	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch	fruit growing ard groundco	g areas. Th over as the t	is predator ufted apple	n the MD, overwinters in bud moth and	
	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro	fruit growing ard grounded om mid-April	g areas. Th over as the t through M	is predator ufted apple id-May who	n the MD, overwinters in bud moth and en maximum	
	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro daily temperatures exceed	fruit growing ard grounded om mid-April 168° F. Emer	g areas. The over as the t through M rgence from	is predator ufted apple id-May when the ground	n the MD, overwinters in bud moth and en maximum I cover is 90-	
	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro daily temperatures exceed 100% complete by shucks	fruit growing aard groundee om mid-April 68° F. Emer split. Shucks	g areas. The over as the t through M rgence from	is predator ufted apple id-May when the ground	n the MD, overwinters in bud moth and en maximum I cover is 90-	
	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro daily temperatures exceed	fruit growing aard groundee om mid-April 68° F. Emer split. Shucks	g areas. The over as the t through M rgence from	is predator ufted apple id-May when the ground	n the MD, overwinters in bud moth and en maximum I cover is 90-	
	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro daily temperatures exceed 100% complete by shucks	fruit growing aard groundee om mid-April 68° F. Emer split. Shucks	g areas. The over as the t through M rgence from	is predator ufted apple id-May when the ground	n the MD, overwinters in bud moth and en maximum I cover is 90-	
	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro daily temperatures exceed 100% complete by shucks	fruit growing aard groundee om mid-April 68° F. Emer split. Shucks	g areas. The over as the t through M rgence from	is predator ufted apple id-May when the ground	n the MD, overwinters in bud moth and en maximum I cover is 90-	
Almonds	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro daily temperatures exceed 100% complete by shucks minimize predator toxicit	fruit growing ard grounded om mid-April l 68° F. Emer split. Shucks y.	g areas. The over as the t through M rgence from plit is the p	is predator ufted apple id-May who the ground referred tim	n the MD, overwinters in bud moth and en maximum I cover is 90- ing to	21
Almonds	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro daily temperatures exceed 100% complete by shucks minimize predator toxicity	fruit growing aard groundee om mid-April 68° F. Emer split. Shucks	g areas. The over as the t through M rgence from	is predator ufted apple id-May when the ground	n the MD, overwinters in bud moth and en maximum I cover is 90-	21
Almonds	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro daily temperatures exceed 100% complete by shucks minimize predator toxicity Navel Orangeworm Peach Twig Borer	fruit growing ard grounded om mid-April l 68° F. Emer split. Shucks y.	g areas. The over as the t through M rgence from plit is the p	is predator ufted apple id-May who the ground referred tim	n the MD, overwinters in bud moth and en maximum I cover is 90- ing to	21
Almonds	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro daily temperatures exceed 100% complete by shucks minimize predator toxicity Navel Orangeworm Peach Twig Borer Peach Twig Borer	fruit growing ard grounded om mid-April l 68° F. Emer split. Shucks y.	g areas. The over as the t through M rgence from plit is the p	is predator ufted apple id-May who the ground referred tim	n the MD, overwinters in bud moth and en maximum I cover is 90- ing to	21
Almonds	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro daily temperatures exceed 100% complete by shucks minimize predator toxicity Navel Orangeworm Peach Twig Borer Peach Twig Borer (Dormant) (CA only)	fruit growing ard grounded om mid-April 1 68° F. Emer split. Shucks y. 0.05-0.1	g areas. The over as the t through M rgence from plit is the pr 9.6-19.2	is predator ufted apple id-May who the ground referred tim 7.3-12.8	n the MD, overwinters in bud moth and en maximum I cover is 90- ing to	21
Almonds	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro daily temperatures exceed 100% complete by shucks minimize predator toxicity Navel Orangeworm Peach Twig Borer Peach Twig Borer (Dormant) (CA only) Do not apply more than 0.	fruit growing aard groundee om mid-April 68° F. Emer split. Shucks y. 0.05-0.1 .2 lb. a.i. per	g areas. The over as the t through M rgence from plit is the pu 9.6-19.2 acre per sea	is predator ufted apple id-May who the ground referred tim 7.3-12.8	n the MD, overwinters in bud moth and en maximum I cover is 90- ing to	21
Almonds	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro daily temperatures exceed 100% complete by shucks minimize predator toxicity Navel Orangeworm Peach Twig Borer Peach Twig Borer (Dormant) (CA only) Do not apply more than 0 Do not graze livestock on	fruit growing aard grounded om mid-April 68° F. Emer split. Shucks y. 0.05-0.1 .2 lb. a.i. per treated orcha	g areas. The over as the t through M rgence from plit is the pr 9.6-19.2 acre per sea ard floors.	is predator ufted apple id-May who the ground referred tim 7.3-12.8	n the MD, overwinters in bud moth and en maximum I cover is 90- ing to 13.2-6.6	21
Almonds	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro daily temperatures exceed 100% complete by shucks minimize predator toxicity Navel Orangeworm Peach Twig Borer Peach Twig Borer (Dormant) (CA only) Do not apply more than 0 Do not graze livestock on Peach Twig Borer (Dormation)	fruit growing aard grounded om mid-April 1 68° F. Emer split. Shucks y. 0.05-0.1 0.05-0.1 .2 lb. a.i. per treated orcha ant) Make a	g areas. The over as the t through M regence from plit is the pr 9.6-19.2 acre per sea ard floors.	is predator ufted apple id-May who the ground referred tim 7.3-12.8 son.	n the MD, overwinters in bud moth and en maximum I cover is 90- ing to 13.2-6.6 A registered	21
Almonds	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro daily temperatures exceed 100% complete by shucks minimize predator toxicity Navel Orangeworm Peach Twig Borer (Dormant) (CA only) Do not apply more than 0 Do not graze livestock on Peach Twig Borer (Dorma dormant oil; for specific	fruit growing ard grounded om mid-April 168° F. Emer split. Shucks y. 0.05-0.1 0.05-0.1 2 lb. a.i. per treated orcha ant)—Make a recommendat	g areas. The over as the t through M rgence from plit is the pr 9.6-19.2 acre per sea ard floors. application ions on use	is predator ufted apple id-May who the ground referred tim 7.3-12.8 uson. with an EPA of oil cons	n the MD, overwinters in bud moth and en maximum I cover is 90- ing to 13.2-6.6 A registered ult	21
Almonds	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro daily temperatures exceed 100% complete by shucks minimize predator toxicity Navel Orangeworm Peach Twig Borer (Dormant) (CA only) Do not apply more than 0 Do not graze livestock on Peach Twig Borer (Dorma dormant oil; for specific manufacturer's label. For	fruit growing ard grounded om mid-April 168° F. Emer split. Shucks y. 0.05-0.1 0.05-0.1 2 lb. a.i. per treated orcha ant)—Make a recommendat	g areas. The over as the t through M rgence from plit is the pr 9.6-19.2 acre per sea ard floors. application ions on use	is predator ufted apple id-May who the ground referred tim 7.3-12.8 uson. with an EPA of oil cons	n the MD, overwinters in bud moth and en maximum I cover is 90- ing to 13.2-6.6 A registered ult	21
Almonds	is a coccinellid insect and NC, NJ, PA, VA and WV the same areas of the orch moves into peach trees fro daily temperatures exceed 100% complete by shucks minimize predator toxicity Navel Orangeworm Peach Twig Borer (Dormant) (CA only) Do not apply more than 0 Do not graze livestock on Peach Twig Borer (Dorma dormant oil; for specific	fruit growing ard grounded om mid-April 168° F. Emer split. Shucks y. 0.05-0.1 0.05-0.1 2 lb. a.i. per treated orcha ant)—Make a recommendat	g areas. The over as the t through M rgence from plit is the pr 9.6-19.2 acre per sea ard floors. application ions on use	is predator ufted apple id-May who the ground referred tim 7.3-12.8 uson. with an EPA of oil cons	n the MD, overwinters in bud moth and en maximum I cover is 90- ing to 13.2-6.6 A registered ult	21

	Leafroller		l		[]	, <u>11.,.m</u> i
	Make first application at	fter emergence	of filbert w	vorm moths	in early	· · · · · · · · · · · · · · · · · · ·
	summer. Do not apply a					
	first. Do not apply more					
	spray, apply 200 – 400 g					
	of ESFENVALERATE	AG per acre p	er treatment	. Do not gr	aze livestock	
	on treated orchard floors					
			1			
Pecans	Pecan Weevil	0.025-	4.8-14.5	2.0-5.8	26-9	21
	Hickory Shuckworm	0.075) .		
	Pecan Nut Casebearer					
	Pecan Aphids					
	Pecan Spittlebug					
	Pecan Stem					
	Phylloxera					
	Peccan Leaf	1	í	j l	ľ	
	Phylloxera					
	Do not feed or graze livestock on treated orchard floors.					
	Do not apply more than					
	apply 200 – 600 gals per			ore than 14.	5 fl. oz. of	
	ESFENVALERATE AC					
	Phylloxera – Correct tim					
	optimum control of leaf			isult local s	pray	
	recommendations for co					
Walnuts	Walnut Aphid	0.05-0.1	9.6-19.2	4.0	13-6	21
	Walnut Husk Fly					
	Codling Moth					
	Navel Orangeworm					
	Do not apply more than				ļ	
	For dilute sprays, apply		s per acre.	Do not feed	or graze	
	livestock on treated crop					
	NOTE: Use of baits in V			recommend	led where	
	endorsed by local Agricu					
	CONCENTRATE SPRA					
	than 30 gals. Of water per acre by ground or 5 gals. of water per acre by air.					

SPECIFIC USES - VEGETABLE CROPS

Сгор	Insect		ition Rate	Acr gal	es treated per	Last Application
Crop	mote	lb ai/acre	fl oz/acre		ENVALERATE	(days to harvest)
Artichoke	Artichoke Plume Moth	0.03-0.05	5.8-9.6		22 - 13	1
	Do not apply more often tha between bud formation and 10 gallons per acre by air an water to obtain coverage wit	harvest of an id 50 – 200 g	individual fru allons per acro	uit. Ap	oply in a minimum of	
Beans, Dry Peas, Dry Lentils	Mexican Bean Beetle Saltmarsh Caterpillar	0.015 - 0	0.03 2.9 -	5.8	44 - 22	21
	Corn Earworm Potato Leafhopper Pea Aphid Grasshoppers Leafhoppers Cowpea Curculio Cutworms Cabbage Looper Western Bean Cutworm Velvetbean Caterpillar Beet Armyworm* Cucumber Beetle Corn Rootworm (Adults) Painted Lady Butterfly (larvae) Green Cloverworm	0.03 - 0.0	05 5.8 -	9.6	22 - 13	
	Pea Weevil (ID, OR & WA only) Pea Leaf Weevil (ID, OR & WA only)	0025 - 0	0.05 4.8 -	9.6	26 - 13	
	Leafhoppers (except CA)	0.015 - 0	.05 2.9 –	9.6	44 - 13	

	Do not apply more than 0.2 lb a.i per acre per season. Do not feed or graze livestock on treated vines. *Aids in control. <u>Pea Weevil & Pea Leaf Weevil (ID, OR & WA)</u> – Time of applicaton is critical in achieving control of pea weevil. For optimum results, apply a bloom prior to detecting adult pea weevils. Once adult pea weevil populations reach a level of 2 or more adults per 25 sweeps, control may be reduced. <u>Leafhoppers (except CA)</u> – ESFENVALERATE AG may be tank mixed with DuPont TM BENLATE Fungicide. Follow as ESFENVALERATE AG and BENLATE label directions regarding proper usage. A "jar test" for physical compatibility should be conducted before field mixtures are made and applications initiated. Order of addition of tank mix components may affect compatibility. For best results, use of spray equipment having continuous agitation is recommended.					
Beans, Snap	Mexican Bean Beetle Saltmarsh Caterpillar	0.015 - 0.03	2.9-5.8	44 - 22	3	
	Potato Leafhopper European Corn Borer Corn Earworm Cucumber Beetle (adults) Flea Beetle Green Cloverworm Cutworm (seedling spray) Grasshoppers Pea Aphid Leahopper Cabbage Looper Western Bean Cutworm Velvet Bean Caterpillar Beet Armyworm* Cucumber Beetle Corn Rootworm (adults) Leafminer (Guam only)	0.03 – 0.05 ai per acre per seaso	5.8 - 9.6	22 - 13		
	Do not allow livestock to graz vines for livestock forage, fod *Aids in control.	e treated bean fields.		treated bean		
Broccoli,	Imported Cabbageworm	0.015 - 0.03	2.9 - 5.8	44 - 22	3	
(including Chinese Broccoli) Cabbage, Cauliflower, Chinese	Cabbage Looper Beet Armyworm* Alfalfa Looper Flea Beetle Grasshoppers Cutworm	0.03 - 0.05	5.8 - 9.6	22 - 13		

Cabbage (Tight headed varieties only)	Do not apply more than 0.4 lbs season. *Aids in control.				
Carrots	Aster Leafhopper Cutworms Leafhoppers	0.03 - 0.05	5.8 - 9.6	22 – 13	7
	Carrot Weevil*	0.05	9.6	13	
	Do not apply more than 0.5 ai/ For aerial application apply in a <u>*Carrot Weevil</u> – Begin treatme Thorough spray coverage of creating recommended.	a minimum of 5 gals w ent when weevils beco	me active.	application is	
Collards	Imported Cabbageworm Cabbage Looper Beet Armyworm* Alfalfa Looper Flea Beetle Grasshopper Cutworm	0.03 - 0.05	5.8-9.6	22 - 13	7
	Do not feed livestock on treated per acre per season. For aerial acre. *Aids in control.				
CUCUMBER, MELONS (Cantaloupe, Honeydew Melons, Watermelon, Muskmelon), PUMPKIN, SQUASH (Summer, Winter)	Pickleworm Rindworms Leafhoppers Corn Earworm Cabbage Looper Squash Bug Cutworms (seedling spray) Cucumber Beetle (adults) Grasshoppers Plant Bugs (Lygus Bugs, Stink Bugs) Squash Vine Borer	0.03 – 0.05	5.8 - 9.6	22 - 13	3
	Do not apply more than 0.25 lbs	s. a.i. per acre per seas	on.	<u> </u>	
Eggplant	Colorado Potato Beetle Flea Beetles Corn Earworm Loopers European Corn Borer	0.03 - 0.05	5.8 - 9.6	22 - 13	7
	Apply when insects are observe				
	applications at 7 to 10 day inter 0.35 lbs. a.i. per acre per season		. Do not apply	more than	

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only)	Do not apply more than 0.4 lbs.	a.i. per acre per seas	on		
Lentils Lettuce, Head	See "Beans, Dry" Cabbage Looper	0.025 - 0.05	4.8-9.6	26 - 13	7
AZ, CA, CO, FL, NM & TX ONLY	Alfalfa Looper Heliothis spp. Beet Armyworm*				·
	Do not apply more than 0.35 lbs *Aids in Control	s. a.i. per acre per sea	son.		
Mustard Greens	Cabbage Looper Imported Cabbageworm	0.05	9.6	13	7
	Do not apply more than 0.2 lbs/	a.i. per acre per seaso	on.		
Peas, Dry	See "Beans, Dry"				
Peas, Green	Pea Aphid Green Cloverworm	0.015 - 0.03	2.9 - 5.8	44 - 22	3
	Cabbage Looper Celery Looper Alfalfa Looper Cutworms Armyworm Corn Earworm Imported Cabbageworm Alfalfa Caterpillar	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Pea Weevil (ID, OR & WA only) Pea Leaf Weevil (ID, OR & WA only)	0.025 – 0.05	4.8 - 9.6	26 - 13	
	Do not apply more than 0.1 lb at Do not feed treated pea vines to <u>Pea Weevil & Pea Leaf Weevil (</u> critical in achieving control of p prior to detecting adult pea weev level of 2 or more adults per 25	livestock. (ID, OR & WA only) ea weevil. For optim vils. Once adult pea	um results, app weevil populatio	ly a bloom	

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22/27

0.03 - 0.055.8 - 9.622 - 13 7 Pepper European Corn Borer Beet Armyworm* Flea Beetles Corn Earworm Loopers' **Colorado Potato Beetle Pepper Weevil*** Cucumber Beetle (adults) Southern Armyworm Apply when insects are observed or when insect damage is observed. Repeat applications at 7 to 10 day intervals to achieve control. Do not apply more than 0.35 lbs. a.i. per acre per season. *Aids in control. Potato Psllid 0.015 - 0.032.9 - 5.8 44 - 22 7 Potato Potato Tuberworm 5.8 - 9.6 22 - 13 0.03 - 0.05 Fleabeetles Tranished Plant Bug **Cabbage Looper** Potato Aphid Potato Leafhopper Cucumber Beetle (adult control) Grasshoppers EuropeanCorn Borer Beet Armyworm* Western Yellow-Striped Armyworm **Buckthorn Aphid** Cutworms **Colorado Potato Beetle Colorado Potato Beetle** 0.05 9.6 13 (Long Island, NY only) Do not apply more than 0.35 lb. a.i. per acre per season. *Aids in control. 7 Radishes 0.03 - 0.055.8 - 9.6 22 - 13Armyworms Beetles Do not apply more than 0.1 lb. ai/acre per season 0.03 - 0.0522 - 13 5.8 - 9.6 1 Sweet Corn[†] Corn Earworm Southwestern Corn Borer **European Corn Borer** Beet Armyworm* Flea Beetles Sap Beetles (adults) **Banded Cucumber Beetle Tarnished Plant Bug**

23/27

24/27

	Begin applications either befor maintain control. For protection treat when necessary to mainta directions for use under field co *Aids in control.	n against corn borers in control. For additic	other than at sill	king time,	
	Stalk Borer Cutworms Corn Rootworms (adults) Grasshoppers Chinch Bugs Armyworm	0.03 - 0.05	5.8-9.6	22 - 13	
	Western Bean Cutworm	0.015 - 0.03	2.9 - 5.8	44 - 22	
	For additional information co	1 nsult directions for use corn.	e under field		
	Corn Leaf Aphid Oat Bird-Cherry Aphid	0.03 - 0. 05	5.8 - 9.6	22 - 13	
	For optimum results, direct the maximum coverage of the expo such as in whorls and leaf axils †Do not apply more than 0.5	osed insects. Aphids n , may not be adequate	ot contacted by ly controlled.		
Tomato	Tomato Hornworm Tobacco Hornworm	0.015 - 0.03	2.9 - 5.8	44 - 22	1
	Tomato Pinworm Flea Beetle Tomato Fruitworm Colorado Potato Beetle Cutworms Cabbage Looper Southern Armyworm Beet Armyworm* Western Yellow-Striped Armyworm Grasshoppers Whitefly Potato Aphid	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Vegetable Leafminer** Do not apply more than 0.5 lbs *Aids in control. **ESFENVALERATE AG is n Leafminer in Florida.			13 able	
Turnips (TX only)	Imported cabbageworm Armyworm Fleabeetle	0.03 - 0.05	5.8 - 9.6	22 - 13	7
	Do not apply more than 0.4 lbs	a.i. per acre per seaso	n.		

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SPECIALTY USES

		Applicat	tion Rate	Acres treated per		
Сгор	Insect	lb ai/acre	fl oz/acre	gal of ESFENVALERATE AG		
NON-CROPLAND (excluding public land such as	Grasshoppers Saltmarsh Caterpillar	0.015 - 0.03	2.9 – 5.8	44 - 22		
forests, parks, or recreational)	Armyworms Army Cutworms Chinch Bugs	0.03 - 0.05	5.8 - 9.6	22 - 13		
	Spray non-cropland adjacent to tilled areas to control migrating insects (Grasshoppers, Armyworms) which are a threat to crops. Do not apply more than 0.5 lbs. active ingredient per acre per year. Do not feed treated crop to livestock. Refer to Spray Recommendations and Precautions when applying to areas adjacent to water.					

		High Vo		
Сгор	Insect	lb ai/100 gal	fl oz/100 gal	Low Volume Sprays (Mistblower) Ib ai/acre
CHRISTMAS TREE PLANTINGS, CONIFER SEED ORCHARDS, FOREST TREE NURSERIES, CONIFER PLANTATIONS	Nantucket Pine Tip Moth and other Pine Tip Moths (except CA) Spittlebugs Pineleaf Chermid Redheaded Pine Sawfly Balsam Woolly Adelgid Pine Chafer Red Pine Sawfly Pine Conelet Bug European Pine Sawfly Cranberry Girdler (adult Control) Pine Needle Midge Balsam Twig Aphid Spruce budworm	0.03 - 0.05	5.8 – 9.6	0.03 - 0.05
	Spray in sufficient gallonage	to obtain good cove	rage of entire tree	
	Pales Weevil	0.03 - 0.05	5.8 - 9.6	
	Northern Pine Weevil			
	Dilute formulation in kerosen developing larvae. Use suffic			
N	Coneworm	Applicati	on Rate	

Seedbug Seed Chalcid	 9.6 fl oz/100 gals water for high volume sprayers. 52 fl oz/100 gals water for low volume sprayers. 0.19 lb. ai/acre application in not less than 10 gals of water for aerial applications. 				
 Apply first application within 1 week of female flower closure or peak pollen fl for Webbing Coneworm control. For other Coneworms and Seedbugs, apply fi application within 30 days following female flower closure. Repeat application intervals of 4 weeks but do not apply more than 1.6 lbs. ai per acre per year. For Seed Chalcid control, apply when all cones are pendant, and repeat at 1 - 2 intervals for 2 or more sprays, or as needed. Apply approximately 5 - 10 gals of the 9.6 fl oz/100 gal dilution per tree with h volume sprayers. With low volume sprayers apply 100 gals of the 52 fl oz/100 dilution per acre. Do not graze or harvest cover crop. Refer to Spray Recommendation and Precautions when applying to areas adjacent to water. 					

STORAGE AND DISPOSAL

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

STORAGE: Store in a secure, dry and temperate area. Store in original container. Keep container closed when not in use. Do not store near food or feed. Do not use or store around the home. Avoid contact with water. In case of spill or leak, soak up with sand, earth or synthetic absorbent (do not use alkaline absorbents) and dispose of wastes in compliance with local, State and Federal regulations.

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

CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer for recycling or reconditioning if container reuse is permitted. If container reuse is prohibited, puncture metal containers and dispose of in a sanitary landfill, or by other approved State and local procedures. Dispose of plastic containers in a sanitary landfill, or by incineration if allowed by State and local authorities. If burned, stay out of smoke.

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