18



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

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

APR 2 9 2010

Ms. Julie Schlekau
Federal Registration Manager
Registration & Regulatory Affairs
Valent U.S.A Corporation
1600 Riviera Avenue, Suite 200
Walnut Creek, CA 94596-8025

Dear Ms. Schlekau,

Subject: Supplemental Labels for Newly Approved Uses

Knack Insect Growth Regulator

EPA Reg. No. 59639-95

Esteem Ant Bait

EPA Reg. No. 59639-114

Esteem 35WP

EPA Reg. No. 59639-115

Pyriproxyfen 0.86 EC Ag

EPA Reg. No. 59639-160

Submissions dated January 28, 2010

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, is acceptable based on the following condition:

1. Supplemental labeling is valid for 18 months from the date of issuance. Thereafter, the content of the supplemental labeling must be incorporated into the Master Label for each product. The supplemental label for each of the above products expires on October 29, 2011.

A stamped copy of each label (with the supplemental labeling attached) is enclosed for your records. If you any questions or require more information, please contact Kevin Sweeney, at (703) 305-5063. Thank you for your cooperation in this matter.

Product Manager 10

Insecticide Branch

Registration Division (7505P)

Enclosure

FINAL PRINTED LABEL



GROUP 76 INSECTICIDE

[ABN: SEIZE™ 35 WP (INSECT GROWTH REGULATOR)]

ACCEPTED
with COMMENTS
in EPA Letter Dated

Under the Federal insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No.

ESTEEM® 35 WP (INSECT GROWTH REGULATOR)

Active Ingredient	By Wt.
*Pyriproxyfen	35.0%
Other Ingredients	<u>65.0</u> %
Total	.100.0%

*2-[1-methyl-2-(4-phenoxyphenoxy) ethoxy]pyridine

ESTEEM® 35 WP Insect Growth Regulator is a wettable powder formula containing 35% active ingredient.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET CONTENTS 5 OUNCES

[ABN: NET CONTENTS 4 OUNCES]

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Harmful if inhaled, swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling.

FIRST AID

If in eyes:

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

If inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

If swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- 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 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.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact **1-800-892-0099** for emergency medical treatment information.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear: long sleeved shirt, long pants, and socks plus shoes.

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

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands 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.
- 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:

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by disposing of equipment washwaters or rinsate. Avoid direct application and/or spray drift to bee hives.

DIRECTIONS FOR USE

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

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls over long-sleeved shirt and long pants, waterproof gloves and socks plus shoes.



DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY

IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

RISKS OF USING THIS PRODUCT

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

LIMITED WARRANTY

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

LIMITATION OF LIABILITY

To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements, Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is latter, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law, if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

NO AMENDMENTS

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing **Disclaimer**, **Risks of Using This Product**, **Limited Warranty** and **Limitation of Liability**, which may not be modified by any oral or written agreement.

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent allowed by applicable law.

Read and follow the entire label of each product to be used in the tank mix with this product.

WATER SOLUBLE PACKAGING

MULTIPLE PACKAGING

This bag contains multiple water soluble packets of ESTEEM 35 WP Insect Growth Regulator. Do not handle the packets with wet gloves or allow the packets to become wet prior to addition to spray tank. Do not break open packets. Refer to the Tables of Equivalents to calculate the number of packets to use. If all packets are not used, close and reseal outer container to protect remaining packet(s).

SINGLE PACKAGING

This bag contains one water soluble packet of ESTEEM 35 WP Insect Growth Regulator. Do not handle the packet with wet gloves or allow the packet to become wet prior to addition to spray tank. Do not break open packet. Refer to the Table of Equivalents to calculate the number of packets to use. Open outer bag by pulling perforated tearstrip and drop the unopened inner packet of ESTEEM 35 WP Insect Growth Regulator into spray tank.

TABLE OF EQUIVALENTS

RATES OF ESTEEM 35 WP PER ACRE	# OF WATER SOLUBLE PACKETS TO TREAT 5 ACRES [ABN: 4 ACRES]
3 oz	3
4 oz	4
5 oz	5

GENERAL INFORMATION

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

ESTEEM 35 WP is intended for use in Insect Pest Management (IPM) or Insect Resistance Management (IRM) programs. ESTEEM 35 WP will not control insect adults, and it is recommended to be used in combination and/or rotation with other IPM or IRM materials. Contact your local state extension service for details.

ESTEEM 35 WP acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

ARTICHOKE (GLOBE)

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

ESTEEM 35 WP does exhibit translaminar movement which means that ESTEEM 35 WP applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

Artichoke Plum Moth Banded Wing Whitefly	2.5 to 3 oz	
Greenhouse Whitefly Silverleaf Whitefly	2.0 10 0 02	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A).
Sweetpotato Whiterly		HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.
	·	Begin applications when whiteflies reach threshold levels per University/Extension
		recommendations (e.g., 3 to 5 adults per leaf and/or equivalent levels of immatures).
		Under severe pressure, use the higher recommended rates.
		Only whole fields should be treated.
		oplications per growing season
 Do not exceed 6 oz of ESTEEM 35 WP per acre per season. Do not apply earlier than 14 days after last ESTEEM 35 WP treatment. Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per acre per 		
	ESTEEM 35 WP may be recomply with local Integrate (IRM) programs. Do not apply within 7 Do not make more the Do not exceed 6 oz of Do not apply earlier the Regardless of formul season. Do not plant any cropareas sooner than 30	ESTEEM 35 WP may be mixed and/or alternated v comply with local Integrated Pest Management (IP (IRM) programs. Do not apply within 7 days of harvest. Do not make more than 2 ESTEEM 35 WP at Do not exceed 6 oz of ESTEEM 35 WP per at Do not apply earlier than 14 days after last Esteron Regardless of formulation do not apply more season.

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

ASPARAGUS

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

ESTEEM 35 WP does exhibit translaminar movement which means that ESTEEM 35 WP applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Asparagus	Whitefly	2.5 to 3 oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A).	
			HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.	
			Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g., 3 to 5 adults per leaf and/or equivalent levels of immatures).	
			Under severe pressure, use the higher recommended rates.	
			Only whole fields should be treated.	
	 Do not exceed 6 oz or Do not apply earlier the Regardless of formula Do not plant any crop sooner than 30 days a 	in 7 days of harvest. The than 2 ESTEEM 35 WP applications per growing season. The than 2 ESTEEM 35 WP per acre per season. The than 14 days after last ESTEEM 35 WP treatment. The mulation do not apply more than 0.134 lb pyriproxyfen per acre per season. The corp other than those with registered pyriproxyfen uses in treated areas ays after the last application. The product with an adjuvant.		

MANAGING WHITEFLY RESISTANCE: Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

BANANA AND PLATAIN

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

ESTEEM 35 WP does exhibit translaminar movement which means that ESTEEM 35 WP applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Banana Platain	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	4 to 5 oz	Apply with air or ground equipment in adequate water for uniform coverage: By air: 3 to 10 gals/A By ground: 10 to 50 gals/A HIGHER WATER VOLUMES MAY	
			PROVIDE IMPROVED INSECT CONTROL.	
			Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures).	
			Only whole fields should be treated.	
			d with commonly used insecticides to comply d Insect Resistance Management (IRM)	
	Do not exceed 15 oz	an 3 ESTEEM 35 WP a of ESTEEM 35 WP per	pplications per growing season. acre per season. than 0.327 lb pyriproxyfen per acre per	
	Do not plant any crop	arlier than 14 days after last ESTEEM 35 WP treatment. ny crop other than those with registered pyriproxyfen uses in treated areas days after the last application.		

MANAGING WHITEFLY RESISTANCE: Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to three applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 4 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

BERRIES (Crop Group 13)

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROPS	PESTS	PRODUCT RATE	SPECIAL INSTRUCTIONS
		PER ACRE	
Bushberries Berries: Bingleberry Blackberry including Bingleberry Black Satin Berry Boysenberry Cherokee Blackberry Chesterberry Cheyenne Blackberry Coryberry Darrowberry Dirksen thornless berry Himalayaberry Lavacaberry Lavacaberry Lucretiaberry Mommoth Blackberry Marionberry Nectorberry Olallieberry Oregon Evergreen Berry Phenomenalberry Ravenberry Rossberry	Cherry Fruitworm Cranberry Fruitworm Lecanium Scale	5 oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage. Fruitworms: Apply when egg laying begins and again at petal fall. Additional applications of another insecticide, at 10 - 14 day intervals, may be needed under high population pressure or sustained moth flight. Lecanium Scale: Apply at either dormant, delayed dormant or as an in-season cover spray. At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in-season use and rates of oil in your area.
Shawnee Blackberry			
Youngberry			
Blueberry Currant Elderberry Gooseberry Huckleberry	comply with local Int Management (IRM)	tegrated Pest Mana programs.	alternated with commonly used insecticides to agement (IPM) and Insect Resistance
Juneberry	Do not apply within 7 days of harvest.		
Lingonberry	Do not make more than 2 ESTEEM 35 WP applications per growing season.		
Loganberry	Do not exceed 10 oz of ESTEEM 35 WP per acre per season. Per and analysis of the season of the least ESTEEM 25 WP to a season.		
Raspberry,	 Do not apply earlier than 14 days after last ESTEEM 35 WP treatment. Regardless of formulation do not apply more than 0.218 lb pyriproxyfen per acre 		
(black and red) Salal	Regardless of following per season.	rmulation do not ap	opiy more than 0.218 ib pyriproxylen per acre

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

BRASSICA LEAFY VEGETABLES (Crop Group 5)

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

ESTEEM 35 WP does exhibit translaminar movement which means that ESTEEM 35 WP applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Brassica Leafy Vegetables: Broccoli Broccoli Raab (rapini) Brussels Sprouts Cabbage Cauliflower Cavalo Broccolo Chinese Broccoli (gailon) Chinese Cabbage (bok choy and napa) Chinese Mustard (gai choy) Collards Kale Kohlrabi Mizuna Mustard Greens Mustard Spinach Rape Greens	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	2.5 to 3 oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A). HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL. Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures). Under severe pressure, use the higher recommended rates. Only whole fields should be treated.
	 Do not exceed 6 oz E Do not apply earlier the Regardless of formula acre per season. 	an 2 ESTEEM 35 W STEEM 35 WP per nan 14 days after la ation do not apply m other than those w	st ESTEEM 35 WP treatment. nore than 0.134 lb pyriproxyfen per ith registered pyriproxyfen uses in

MANAGING WHITEFLY RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz/A for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

BULB VEGETABLES (Crop Group 3)

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Bulb Vegetables: Garlic Garlic, Great Headed Leek Onion, Dry Bulb Onion, Green Onion, Welsh Shallot	Onion Thrips Western Flower Thrip	2.5 oz	FOR SUPPRESSION OF THRIPS: Apply with ground equipment in adequate water for uniform coverage (20 to 50 gals/A). Begin applications when thrips reach threshold levels per University/Extension. Thorough coverage is critical for adequate water volume to ensure thorough coverage.
	 Do not apply within 3 days of harvest. Do not make more than 2 ESTEEM 35 WP applications per growing season. Do not exceed 5 oz of ESTEEM 35 WP per acre per season. Do not apply earlier than 14 days after last ESTEEM 35 WP treatment. Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per acre per season. Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application. 		

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

48

CITRUS (Including Ugli Fruit and White Sapote) (Crop Group 10)

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Citrus Ugli Fruit White Sapote	Black Scale Brown Soft Scale California Red Scale Florida Red Scale Snow Scale	5 oz	Apply with ground equipment in 200 to 1500 gals/A. Apply in sufficient water volume for tree size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage. Apply anytime prior to fruit becoming
			infested when scale is in the crawler stage. Thorough coverage is essential for good control.
			ESTEEM 35 WP may be applied with superior spray oils at 1/2 to 1%. Follow the manufacturer's directions and recommendations on timing and rates.
			NOTE: For scale apply only one application during emergence of scale crawlers per calendar year.
	Citrus Black Fly Citrus Leafminer Citrus Whitefly	3 oz	Apply with ground application in 200 to 1500 gals/A. Apply in sufficient water volume for tree size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
			Apply when pests are just beginning to build and before infestation has occurred. Thorough coverage is essential for good control.
	ESTEEM 35 WP may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) programs and Insect Resistance Management (IRM) programs.		
	 Do not apply within 1 day of harvest. Do not make more than 2 ESTEEM 35 WP applications per growing season. Do not exceed 8 oz of ESTEEM 35 WP per acre per season. Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per acre per season. 		
		er than 21 days after las	t ESTEEM 35 WP treatment.

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

<u>14</u> 48

COTTON

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

ESTEEM 35 WP does exhibit translaminar movement which means that ESTEEM 35 WP applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS	
Cotton	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly	2.5 to 3 oz	Apply with air or ground equipment in adequate water for uniform coverage:	
	Sweetpotato Whitefly	Do not apply less than 2.5 oz/A	By Air: 3 to 10 gals/A By Ground: 10 to 50 gals/A	
			HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.	
			Make only one application per growing season.	
			Begin application when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures).	
			Under severe pressure, use the higher recommended rates.	
			Only whole fields should be treated.	
	 Do not apply within 28 days of harvest. Do not make more than 1 ESTEEM 35 WP application per growing season. Do not exceed 3 oz ESTEEM 35 WP per acre per season. Regardless of formulation do not apply more than 0.067 lb pyriproxyfen per acre per season. Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after last application. 			

MANAGING WHITEFLY RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to one application per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

CRANBERRY

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Cranberry	Cherry Fruitworm Cranberry Fruitworm Lecanium Scale	5 oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or at least 20 gals/A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.
·			Fruitworms: Apply when egg laying begins and again at petal fall. Additional applications of another insecticide, at 10 to 14 day intervals, may be needed under high population pressure or sustained moth flight.
			Lecanium Scale: Apply at either dormant, delayed dormant or an in-season cover spray. At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in-season use and rates of oil in your area.
	 Do not apply within Do not make more Do not exceed 10 c Do not apply earlier 	anagement (IPM) and Inse 7 days of harvest. than 2 ESTEEM 35 WP ap oz of ESTEEM 35 WP per a than 14 days after last ES	with commonly used insecticides to comply with ect Resistance Management (IRM) programs. oplications per growing season. acre per season.

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.



CUCURBITS (Crop Group 9)

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

ESTEEM 35 WP does exhibit translaminar movement which means that ESTEEM 35 WP applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Cucurbits: Balsam Apple Balsam Pear Bitter Melon Cantaloupe Chayote Chinese Cucumber Chinese Waxgourd Citron Melon Cucumber Edible Gourd Gherkin Momordica spp Muskmelon Pumpkin Summer Squash Watermelon Winter Squash	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	2.5 to 3 oz Do not apply less than 2.5 oz/A.	Apply with air or ground equipment in adequate water for uniform coverage: By air: 3 to 10 gals/A By Ground: 10 to 50 gals/A HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL. Begin application when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures). Under severe pressure, use the higher recommended rates.
			Only whole fields should be treated.
	 Do not apply within 7 days of harvest. Do not make more than 2 ESTEEM 35 WP applications per growing season. Do not exceed 6 oz ESTEEM 35 WP per acre per season. Do not apply earlier than 14 days after last ESTEEM 35 WP treatment. Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per acre per season. Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application. 		

MANAGING WHITEFLY RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz/A for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

FRUITING VEGETABLES (Crop Group 8)

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

ESTEEM 35 WP does exhibit translaminar movement which means that ESTEEM 35 WP applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Fruiting Vegetables: Eggplant Ground Cherry Okra Pepino Pepper Tomatillo Tomato	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	2.5 to 3 oz Do not apply less than 2.5 oz/A of ESTEEM 35 WP when used as a stand alone application.	Apply with air or ground equipment in adequate water for uniform coverage: By Air: 3 to 10 gals/A By Ground: 10 to 50 gals/A HIGHER WATER VOLUMES PROVIDE IMPROVED INSECT CONTROL. Begin application when whiteflies reach	
			threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures). Under severe pressure, use the higher recommended rates. Only whole fields should be treated.	
	Banded Wing Whitefly Cabbage Looper Green Peach Aphid Greenhouse Whitefly (immatures & adults) Silverleaf Whitefly Sweetpotato Whitefly Tobacco Hornworm	1.8 to 2.5 oz + ORTHENE® 75 S 0.66 to 1.33 lbs/A or ORTHENE® 97 0.5 to 1.0 lb/A	Apply as a tank mix with ground equipment for uniform coverage (25 to 150 gals/A by ground). Make application when eggs or insects first appear. If control is needed during this period use an alternate insecticide registered for the target pest. ESTEEM 35 WP may also be mixed or alternated with commonly used insecticides to comply with local IPM programs. Comply with all applicable directions, restrictions and precautions on the registered labels for ORTHENE 75 S or ORTHENE 97.	
	 Do not apply within 14 days of harvest. Do not make more than 2 ESTEEM 35 WP applications per growing season. Do not exceed 6 oz ESTEEM 35 WP per acre per season. Do not apply earlier than 14 days after last ESTEEM 35 WP treatment. Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per acre per season. Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application. 			

continued

FRUITING VEGETABLES (Crop Group 8) - continued

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS		
Fruiting Vegetables: Tomato	Banded Wing Whitefly Beet Armyworm Fruitworm Greenhouse Whitefly (immatures & adults) Potato Aphid	1.8 to 2.5 oz + MONITOR® 4 Spray 24 fl oz	EARLY SEASON WHITEFLY CONTROL PROGRAM FOR REDUCTION OF GEMINIVIRUS: Apply as a tank mix with ground equipment for uniform coverage (10 to 120 gals/A). Make		
	Silverleaf Whitefly Sweetpotato Whitefly Thrips Tomato Pinworm Yellowstriped Armyworm	+ DANITOL® 2.4 EC Spray 10-2/3 fl oz	application when scouting first indicates adult whiteflies are on young plants. NOTE: This may result in treatment immediately following transplanting.		
			MID TO LATE SEASON WHITEFLY CONTROL PROGRAM FOR PREVENTION OF IRREGULAR FRUIT RIPENING: Apply as a tank mix with ground equipment for uniform coverage (20 to 120 gals/A by ground). Make application when scouting indicates whiteflies are present.		
			ESTEEM 35 WP may also be mixed or alternated with commonly used insecticides to comply with local IPM programs.		
			Comply with all applicable directions, restrictions and precautions on the registered labels for MONITOR 4 Spray and DANITOL 2.4 EC Spray.		
	 Do not make more than 	 Do not make more than 2 ESTEEM 35 WP applications per growing season. 			
	 Do not apply earlier that Regardless of formulation season. 	 Do not apply earlier than 14 days after last ESTEEM 35 WP treatment. Regardless of formulation do not apply more than 0.109 lb pyriproxyfen per acre per season. 			
	Do not plant any crop of sooner than 30 days af		ed pyriproxyfen uses in treated areas		

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz/A for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

GRAPE

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an insect growth regulator (IGR) and activity depends on the insects' development, evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Grape	Glassy-Winged Sharpshooter Grape Berry Moth Lecanium Scale	5 oz	Apply with ground equipment as a full coverage spray (50 to 200 gals/A). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.
			Lecanium Scale: Apply at either dormant, delayed dormant or an in-season cover spray. At dormant, delayed dormant you may use a spray oil at the manufacturer's recommended oil rate. Do not use oil in an in-season spray. In a cover spray make applications when scale crawlers first emerge.
			Follow local recommendations regarding in-season use and rates of oil in your area.
	 Do not apply within 21 days of Do not make more than 2 EST Do not exceed 10 oz ESTEEN Do not apply earlier than 14 do Regardless of formulation, do season. 	FEEM 35 WP applicati 1 35 WP per acre per s ays after last ESTEEM	season.

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

20

LEAFY VEGETABLES (EXCEPT BRASSICA VEGETABLES) (Crop Group 4)

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

ESTEEM 35 WP does exhibit translaminar movement which means that ESTEEM 35 WP applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Leafy Vegetables (Except Brassica Vegetables): Amaranth (Chinese Spinach) Arugula (Roquette) Cardoon Celery Celery, Chinese Celtuce Chervil Chrysanthemum, Edible-Leaved Chrysanthemum, Garland Corn Salad Cress, Garden Cress, Upland Dandelion Dock (Sorrel) Endive (Escarole) Fennel, Florence Lettuce, Head and Leaf	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	2.5 to 3 oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A). HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL. Begin applications when whiteflies reach threshold levels per University/Extension recommendations. Under severe pressure, use the higher recommended rates. Only whole fields should be treated.
Orach Parsley Purslane, Garden Purslane, Winter Radicchio (Red Chicory) Rhubarb Spinach New Zealand Spinach Vine Spinach Swiss Chard	 season. Do not exceed 6 oz E Do not apply earlier the Regardless of formula per acre per season. Do not plant any crop 	an 2 ESTEEM 35 WP as STEEM 35 WP per acreated at 14 days after last Eation do not apply more other than those with rethan 30 days after the	STEEM 35 WP treatment. than 0.134 lb pyriproxyfen registered pyriproxyfen uses in

MANAGING WHITEFLY RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz/A for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

LEAVES OF ROOT & TUBER VEGETABLES (Crop Group 2)

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

ESTEEM 35 WP does exhibit translaminar movement which means that ESTEEM 35 WP applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Leaves of Root & Tuber Vegetables: Beet, Garden Burdock, Edible Carrot Cassava, Bitter Cassava, Sweet Celeriac Chervil, Turnip-Rooted Chicory Dasheen (Taro) Parsnip Radish Radish, Oriental (Daikon) Rutabaga Salsify, Black Sugar Beet Sweet Potato Tanier Turnip Yam, True	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	2.5 to 3 oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A). HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL. Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures). Under severe pressure, use the higher recommended rates. Only whole fields should be
	season. Do not exceed 6 oz E Do not apply earlier the Regardless of formula per acre per season. Do not plant any crop treated areas sooner	STEEM 35 WP action and 14 days after last Eation do not apply more other than those with than 30 days after the to graze treated areas	ESTEEM 35 WP treatment. than 0.109 lb pyriproxyfen registered pyriproxyfen uses in last application.

MANAGING WHITEFLY RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz/A for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

77 Ty

LEGUME VEGETABLES (Succulent or Dried) (Crop Group 6)

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an insect growth regulator (IGR) and activity depends on the insects' development, evidence of activity will be slower than typical contact insecticides.

ESTEEM 35 WP exhibits translaminar movement which means that ESTEEM 35 WP applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Legume Vegetables (any cultivar or Bean (Phaseolus), Field Pea (Pisum) and Soybean): Beans (Lupinus): Grain Lupin Sweet Lupin White Lupin White Sweet Lupin Beans (Phaaseolus): Field Bean Kidney Bean Lima Bean Navy Bean Pinto Bean Runner Bean Snap Bean Tepary Bean Wax Bean Bean (Vigna): Adzuki Bean Asparagus Bean Blackeyed Pea Catjang Chinese Longbean Cowpea Crowder Pea Moth Bean Mung Bean Rice Bean Southern Pea Urd Bean Yardlong Bean Broad Bean (fava) Chickpea (garbanzo) Guar Jackbean Lablab Bean	PESTS Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly		SPECIAL INSTRUCTIONS EARLY SEASON WHITEFLY PROGRAM: Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A. Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage. Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures). Under severe pressure, use the higher recommended rates. Only whole fields should be treated.
Lablab Bean Lentil			
Pea (Pisum): Dwarf Pea Edible-podded Pea English Pea Field Pea Garden Pea Green Pea Snowpea Sugar Snap Pea Pigeon Pea Soybean	local Integrated Pest Mar Do not apply within Do not make more t Do not exceed 6 oz Do not apply earlier Regardless of formu Do not plant any crosoner than 30 days Do not allow livestor	ragement (IPM) and Institute 17 days of harvest. Than 2 ESTEEM 35 WP per a strain 14 days after last lation, do not apply more pother than those with a after the last application to graze treated area.	ESTEEM 35 WP treatment. bre than 0.134 lb of pyriproxyfen per acre per season. bregistered pyriproxyfen uses in treated areas con.

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LEGUME VEGETABLES (Succulent or Dried)(Crop Group 6) - continued

MANAGING WHITEFLY RESISTANCE: Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

OLIVE

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS		
Olive	Black Scale San Jose Scale	4 to 5 oz	Apply with ground equipment in 100 to 400 gals/A. Apply in sufficient water volume for tree size. Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.		
			Apply at either dormant, delayed dormant or an inseason cover spray. At dormant, delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding inseason use and rates of oil in your area.		
			Under heavy scale pressure, use the higher rate of ESTEEM 35 WP.		
	ESTEEM 35 WP may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.				
	 Do not apply within 7 days of harvest. Do not make more than 2 ESTEEM 35 WP applications per growing season. Do not exceed 10 oz of ESTEEM 35 WP per acre per season. Do not apply earlier than 14 days after last ESTEEM 35 WP treatment. Regardless of formulation do not apply more than 0.218 lb pyriproxyfen per acre per season. 				

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

25

PASTURE GRASS AND RANGELAND

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an insect growth regulator (IGR) and activity depends on the insects' development, evidence of activity will be slower than typical contact insecticides.

CROPS	PESŢS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Pasture Grass and Rangeland	Cricket Grasshopper Locust	2.5 to 3 oz	Apply with air or ground equipment in adequate water for uniform coverage: By air: 3 to 10 gals/A By Ground: 10 to 50 gals/A HIGHER WATER VOLUMES PROVIDE IMPROVED INSECT CONTROL. Begin application when pests reach threshold levels per University/Extension recommendations.
			Under severe pressure, use the higher recommended rates.
	 Do not make more than 2 ESTEEM Do not exceed 6 oz ESTEEM 35 WF Regardless of formulation do not apper season. Do not apply earlier than 14 days aff Do not plant any crop other than the treated areas sooner than 30 days a 		oplications per growing season. e per season. than 0.134 lb pyriproxyfen per acre STEEM 35 WP treatment. egistered pyriproxyfen uses in

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

PAWPAW

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

ESTEEM 35 WP does exhibit translaminar movement which means that ESTEEM 35 WP applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Pawpaw	Scale Whitefly	4 to 5 oz	Apply 100 to 400 gals/A with ground equipment. Coverage is essential for good control. Apply in sufficient water volume for tree size. Use of higher water volume will assure better coverage.	
			Scale: Apply at either dormant, delayed dormant or an in-season cover spray. At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. Do not use oil in an in-season spray.	
			In a cover spray make applications when scale crawlers first emerge.	
			Under heavy scale pressure, use the higher rate of ESTEEM 35 WP.	
	In-season sprays of E	STEEM 35 WP may not p	rotect fruit from blemishes by scale.	
•	ESTEEM 35 WP may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.			
	Do not make moreDo not exceed 15Do not apply earli	oz of ESTEEM 35 WP pe er than 14 days after last l	applications per growing season. Ir acre per season. ESTEEM 35 WP treatment. It is than 0.327 lb pyriproxyfen per acre per	

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to three applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 4 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

27

PINEAPPLE

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS		
Pineapple	Black Scale Brown Soft Scale California Red Scale Florida Red Scale Snow Scale	5 oz	Apply with ground equipment in 20 to 50 gals/A Apply in sufficient water volume for plant size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.		
			Apply anytime prior to fruit becoming infested when scale is in the crawler stage. Application at the 2 nd or 3 rd generation of scale may result in excessive dead scale remaining on the fruit at harvest. Thorough coverage is essential for good control.		
			ESTEEM 35 WP may be applied with superior spray oils at 1/2 to 1%. Follow the manaufacturer's directions and recommendations on timing and rates.		
	ESTEEM 35 WP may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.				
	 Do not apply within 1 day of harvest. Do not make more than 2 ESTEEM 35 WP applications per calendar year. Do not exceed 10 oz of ESTEEM 35 WP per acre per season. Do not apply earlier than 21 days after last ESTEEM 35 WP treatment. Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per acre per season. 				

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

28 W

POME FRUIT (Crop Group 11)

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Pome Fruit: Apple Crabapple Loquat Mayhaw Quince	Codling Moth Suppression of: Pandemis Leafroller Obliquebanded Leafroller	4 to 5 oz	Apply by ground with airblast equipment in a minimum of 50 gals/A. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
Quince		,	1st Generation Codling Moth: Apply at Biofix plus 100 degree days (this is usually close to petal fall). Make a second application 14 to 21 days later or timed to coincide with peak moth flights. For subsequent applications, if needed, apply other insecticides registered for Codling Moth control. The addition of oil has been shown to increase Codling Moth activity of ESTEEM 35 WP. Follow local recommendations regarding in-season use and rates of oil in your area.
			Obliquebanded and Pandemis Leafroller: Apply to the overwintering larvae at pink to petal fall tree growth stage. ESTEEM 35 WP does not directly control the larvae but inhibits normal pupation and adult emergence.
	Florida Red Scale Lecanium Scale San Jose Scale	4 to 5 oz	Apply by ground with airblast equipment in a minimum of 50 gals/A. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
			Apply at delayed dormant through pink. For delayed dormant use a superior spray oil at the manufacturer's recommended rate of oil.
			Under heavy scale pressure, use the higher rate of ESTEEM 35 WP.
			Scale: For control in-season, make application in cover sprays when scale crawlers first emerge. The use of oil at the crawler emergence stage has been shown to improve control. Follow local recommendations regarding in-season use and rates of oil in your area.

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18 TY

POME FRUIT (Crop Group 11) - continued

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Pome Fruit: Apple Crabapple Loquat Mayhaw	Green Apple Aphid Rosy Apple Aphid Spirea Aphid Spotted Tentiform Leafminer Westem Tentiform Leafminer	3 to 5 oz	Apply by ground with airblast equipment in a minimum of 50 gals/A. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
Quince			Leafminers: Apply at peak moth flight for control of 1 st or 2 nd generation. This usually occurs at pre-pink to pink apple stage for 1 st generation and 2 nd cover for 2 nd generation.
			Rosy Apple Aphid: Apply at 1/2" green apple growth stage.
			Green Apple & Spirea Aphid: Apply when aphids first appear, but before aphids are colonized.
			TIMING IS CRITICAL FOR ACCEPTABLE APHID CONTROL.
Pear Oriental Pear	Pear Psylla	4 to 5 oz	Apply by ground with airblast equipment in 75 to 400 gals/A with a superior spray oil at manufacturer's recommended rates for the stage of growth. It is essential to use adequate water volume to ensure thorough coverage.
			Apply a single application during the delayed dormant to pink stage of growth at 5 oz/A or make two applications from delayed dormant through petal fall stage of growth at 4 to 5 oz/A. Make application just before sustained egg lay is anticipated.
			DO NOT USE SKIP ROWS DURING APPLICATION.
	·		For in-season control of pear psylla, use an insecticide recommended for this use.
	Lecanium Scale San Jose Scale	4 to 5 oz	Apply by ground with airblast equipment in 100 to 400 gals/A at delayed dormant with a superior spray oil at the manufacturer's recommended rates. Under heavy scale pressure, use the higher rate.
			Apply in sufficient water volume for tree size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
			For control of scale in-season make application in cover sprays when scale crawlers first emerge. The use of oil at the crawler emergence stage has been shown to improve performance. Follow local recommendations regarding in-season use and rates of oil in your area.

continued

POME FRUIT (Crop Group 11) - continued

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Pome Fruit: Pear Oriental Pear	Codling Moth Suppression of: Obliquebanded Leafroller Pandemis Leafroller	4 to 5 oz	Apply by ground with airblast equipment in 100 to 400 gals/A. 1st Generation Codling Moth: Apply at Biofix plus 100 degree days. Make a second application 14 to 21 days later or timed to coincide with peak moth flights. For subsequent applications, if needed, apply other insecticides registered for Codling Moth control. The addition of oil has been shown to increase Codling Moth activity of ESTEEM 35 WP. Follow local recommendations regarding in-season use and rates of oil in your area. For additional generations apply other insecticides registered for Codling Moth Control.
	 ESTEEM 35 WP may be mixed and/or alternated with commonly used insecomply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs. Do not apply within 45 days of harvest. Do not make more than 2 ESTEEM 35 WP applications per growing seed to not exceed 10 oz of ESTEEM 35 WP per acre per season. Do not apply earlier than 14 days after last ESTEEM 35 WP treatment. Regardless of formulation do not apply more than 0.218 lb pyriproxyfem per season. 		

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

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POMEGRANATE

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

ESTEEM 35 WP does exhibit translaminar movement which means that ESTEEM 35 WP applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Pomegranate	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	4 to 5 oz	Apply with air or ground equipment in adequate water for uniform coverage: By air: 3 to 10 gals/A By ground: 10 to 50 gals/A HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL. Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures). Only whole fields should be treated.
	 Do not exceed 15 oz Do not apply earlier the Regardless of formula season. Do not plant any crop 	an 3 ESTEEM 35 WP a of ESTEEM 35 WP per han 14 days after last E ation do not apply more	STEEM 35 WP treatment. than 0.327 lb pyriproxyfen per acre per egistered pyriproxyfen uses in treated areas

MANAGING WHITEFLY RESISTANCE: Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to three applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 4 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.



ROOT AND TUBER VEGETABLES (Crop Group 1)

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

ESTEEM 35 WP does exhibit translaminar movement which means that ESTEEM 35 WP applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Root & Tuber Vegetables: Arracacha Arrowroot Artichoke, Chinese Artichoke, Jerusalem Beet, Garden Beet, Sugar Burdock, Edible Carnot Cassava (bitter and sweet) Celeriac Chaoyote (root) Chervil, Turnip-rooted Chicory Chufa Dasheen (taro) Ginger Ginseng Horseradish Leren Parsley, Turnip-rooted Parsnip Potato Radish Radish, Oriental Rutabaga	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	2.5 oz	Apply with ground equipment in adequate water for uniform coverage (20 to 50 gals/A). HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL. Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures). Under severe pressure, use the higher recommended rates. Only whole fields should be treated.
Salsify Salsify, Black Salsify, Spanish Skirret Sweet Potato Tanier Turmeric Turnip Yam, Bean Yam, True	 Do not apply within 7 days of harvest. Do not make more than 2 ESTEEM 35 WP applications per growing season. Do not exceed 5 oz of ESTEEM 35 WP per acre per season. Do not apply earlier than 14 days after last ESTEEM 35 WP treatment. Regardless of formulation do not apply more than 0.109 lb pyriproxyfen per acre per season. Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application. Do not allow livestock to graze treated areas. 		

MANAGING WHITEFLY RESISTANCE: Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.



SMALL FRUIT VINE CLIMBING CROPS (EXCEPT GRAPE) (Crop Group 13-07E)

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROPS	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Small Fruit Vine Climbing Crops: Berry, Schisandra Gooseberry Grape, Amur River Kiwifruit, Fuzzy Kiwifruit, Hardy Maypop and cultivars, varieties and/or hybrids of these.	Scale	5 oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage. Apply at either dormant, delayed dormant or an in-season cover spray. At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding inseason use and rates of oil in your area.
	 ESTEEM 35 WP may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs. Do not apply within 30 days of harvest. Do not make more than 2 ESTEEM 35 WP applications per growing season. Do not exceed 10 oz of ESTEEM 35 WP per acre per season. Do not apply earlier than 14 days after last ESTEEM 35 WP treatment. Regardless of formulation do not apply more than 0.218 lb pyriproxyfen per acre per season. Do not apply this product with an adjuvant. 		

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.



STONE FRUIT (Crop Group 12)

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Stone Fruit: Apricot Cherry Chickasaw Plum Damson Plum Fresh Prune Japanese Plum Nectarine Peach Plum Plumcot Prune	Lecanium Scale San Jose Scale Suppression of: Peach Twig Borer Oriental Fruit Moth	4 to 5 oz	Apply in 100 to 400 gals/A with ground equipment. Coverage is essential for good control. Apply in sufficient water volume for tree size. Use of higher water volume will assure better coverage. Scale: Apply at dormant, delayed dormant or as an in-season cover spray: At dormant, delayed dormant, use a spray oil at the manufacturer's recommended oil rate. Under heavy scale pressure, use the higher rate of ESTEEM 35 WP. Peach Twig Borer: ESTEEM 35 WP has provided good suppression of Peach Twig Borer when applied delayed dormant through bloom sprays. Use a spray oil at the manufacturer's recommended rate for the stage of crop growth.	
	In-season sprays of ESTEEM 35 WP may not protect fruit from blemishes by scale. ESTEEM 35 WP may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs. Do not apply within 14 days of harvest. Do not make more than 3 ESTEEM 35 WP applications per growing season. Do not exceed 15 oz of ESTEEM 35 WP per acre per season. Do not apply earlier than 14 days after last ESTEEM 35 WP treatment. Regardless of formulation do not apply more than 0:327 lb pyriproxyfen per acre per season.			

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to three applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

35

STRAWBERRY

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an insect growth regulator (IGR) and activity depends on the insects' development, evidence of activity will be slower than typical contact insecticides.

ESTEEM 35 WP exhibits translaminar movement which means that ESTEEM 35 WP applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS	
Strawberry	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	3 oz	Apply with ground equipment as a full coverage spray (100 to 400 gals/A). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.	
			Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures).	
			Under severe pressure, use the higher recommended rates.	
			Only whole fields should be treated.	
į	 Do not apply within 2 	2 days of harvest.		
		Do not make more than 2 ESTEEM 35 WP applications per growing season.		
	 Do not exceed 6 oz ESTEEM 35 WP per acre per season. Do not apply earlier than 30 days after last ESTEEM 35 WP treatment. Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application. Regardless of formulation, do not apply more than 0.134 lb. of pyriproxyfen per acre per season. 			

MANAGING WHITEFLY RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 3 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

36 48

TREE NUTS (Crop Group 14)

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Tree Nuts: Almond	Black Scale San Jose Scale Suppression of: Peach Twig Borer	4 to 5 oz	Apply with ground equipment in 100 to 400 gals/A. Coverage is essential for good control. Apply in sufficient water volume for tree size. Use of higher water volume will assure better coverage. Apply at either dormant, delayed dormant or an in-season cover spray. At dormant, delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in-season use and rates of oil in your area. ESTEEM 35 WP has provided good suppression of Peach Twig Borer when applied delayed dormant through bloom sprays.	
	Do not make moreDo not exceed 5 c	Do not apply within 21 days of harvest.		

continued

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to one application per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or other chemical classes of insecticides. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

TREE NUTS (Crop Group 14) - continued

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS		
Tree Nuts: Beechnut Brazil Butternut Cashew Chestnut	Codling Moth Dusky Veined Aphid Walnut Aphid	5 oz	Apply with ground equipment in 100 to 400 gals/A. Apply in sufficient water volume for tree size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.		
Chinquapin Filbert (Hazelnut) Hickory Macadamia Pecan Pistachio Walnut			1st Generation Codling Moth: Apply at Biofix plus 100 degree days. Make a second application 14 to 21 days later or timed to coincide with peak moth flights. For subsequent applications, if needed, apply other insecticides registered for Codling Moth control. The addition of oil has been shown to increase Codling Moth activity of ESTEEM 35 WP. Follow local recommendations regarding in-season use and rates of oil in your area.		
	Black Scale Brown Soft Scale Italian Scale Lecanium Scale San Jose Scale Walnut Scale Suppression of: Peach Twig Borer	4 to 5 oz	Apply with ground equipment in 100 to 400 gals/A at either dormant, delayed dormant or an in-season cover spray. The addition of a superior spray oil at dormant or delayed dormant may improve scale control. However, do not use a spray oil in oil sensitive crops such as Walnut. Follow manufacturer's recommendations regarding use and rates of oil for your area.		
			In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in-season use and rates of oil in your area. Under heavy scale pressure, use the higher		
			rate. Coverage is essential for good control. Apply in sufficient water volume for tree size. Use of higher water volume will assure better coverage.		
	comply with local Inte Management (IRM) p	ESTEEM 35 WP may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.			
	 Do not apply within 21 days of harvest. Do not make more than 2 ESTEEM 35 WP applications per growing season. Do not exceed 10 oz of ESTEEM 35 WP per acre per season. Do not apply earlier than 14 days after last ESTEEM 35 WP treatment. Regardless of formulation do not apply more than 0.218 lb pyriproxyfen per acre per season. 				

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

<u>38</u> 48

TROPICAL & SUBTROPICAL FRUIT

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROPS	PEST	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Tropical & Subtropical Fruit: Acerola Atemoya Avocado Biriba Black Sapote Canistel Cherimoya Custard Apple Feijoa Guava Ilama Jaboticaba Longan Lychee Mamey Sapote Mango Papaya	Scale	5 oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage. Apply at either dormant, delayed dormant or as an in-season cover spray. At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in-season use and rates of oil in your area.
Passionfruit Pulasan Rambutan Sapodilla Soursop Spanish Lime Star Apple	to comply w Managemen Do not a Do not r	ith local Integrated Pest t (IRM) programs. apply within 14 days of h nake more than 2 ESTE	EM 35 WP applications per growing season.
Starfruit Sugar Apple Wax Jambu	Do not a	apply earlier than 14 day ess of formulation do no	M 35 WP per acre per season. s after last ESTEEM 35 WP treatment. t apply more than 0.218 lb pyriproxyfen per acre

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

WATERCRESS

GENERAL: ESTEEM 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ESTEEM 35 WP has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since ESTEEM 35 WP is an insect growth regulator (IGR) and activity depends on the insects' development, evidence of activity will be slower than typical contact insecticides.

ESTEEM 35 WP exhibits translaminar movement which means that ESTEEM 35 WP applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS	
Watercress	Sharpshooters Whitefly	2.5 to 3 oz	Apply with ground equipment as a full coverage spray (10 to 50 gals/A). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.	
			Begin applications when whiteflies reach threshold levels per University/Extension recommendations	
			Under severe pressure, use the higher recommended rates.	
	·		Only whole fields should be treated.	
	Do not apply with	ithin 7 days of harve	est.	
			M 35 WP applications per growing season.	
		 Do not exceed 6 oz ESTEEM 35 WP per acre per season. 		
			after last ESTEEM 35 WP treatment.	
	 Regardless of f acre per seaso 		apply more than 0.134 lb of pyriproxyfen per	
•	 Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application. 			
	 Do not apply this 	product with an adju	vant.	

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting ESTEEM 35 WP Insect Growth Regulator to two applications per growing season. ESTEEM 35 WP may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal integrated Pest Management (IPM) and Integrated Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in a cool dry place.

Keep pesticide in original container.

Keep container closed when not in use.

Do not put concentrate or dilute into food or drink containers.

Not for use or storage in or around the home.

For help with any spill, leak, fire or exposure involving this material, call day or night 800-892-0099.

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

Nonrefillable outer bag. Do not reuse or refill the outer bag. Completely empty bag into application equipment. Then dispose the empty bag 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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Danitol is a restricted use product.

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Made in U.S.A.

EPA Reg. No. 59639-115 EPA Est. No.

059639-00115.200801204.E35.IR4.FINAL



continued

ESTEEM® 35 WP INSECT GROWTH REGULATOR

EPA Reg. No. 59639-115

ESTEEM® 35 WP INSECT GROWTH REGULATOR FOR USE ON ARTICHOKE (GLOBE), ASPARAGUS, LEAFY VEGETABLES (EXCEPT BRASSICA VEGETABLES), LEAVES OF ROOT & TUBER VEGETABLES, SMALL FRUIT VINE CLIMBING CROPS (EXCEPT GRAPE) AND WATERCRESS

DIRECTIONS FOR USE

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

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS, DIRECTIONS AND RESTRICTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION.

READ THE LABEL AFFIXED TO THE CONTAINER FOR ESTEEM 35 WP INSECT GROWTH REGULATOR BEFORE APPLYING. USE OF ESTEEM 35 WP INSECT GROWTH REGULATOR ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR ESTEEM 35 WP INSECT GROWTH REGULATOR.

ARTICHOKE (GLOBE)

GENERAL: Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Esteem 35 WP Insect Growth Regulator does exhibit translaminar movement which means that Esteem 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

ARTICHOKE (GLOBE) continued

PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Artichoke Plum Moth Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	2.5 to 3 oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A). HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.
		Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g., 3 to 5 adults per leaf and/or equivalent levels of immatures).
		Under severe pressure, use the higher recommended rates.
		Only whole fields should be treated.

Esteem 35 WP Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

- Do not apply within 7 days of harvest.
- Do not make more than 2 *Esteem* 35 WP Insect Growth Regulator applications per growing season.
- Do not exceed 6 oz of Esteem 35 WP Insect Growth Regulator per acre per season.
- Do not apply earlier than 14 days after last Esteem 35 WP Insect Growth Regulator treatment.
- Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per acre per season.
- Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.
- Do not apply this product with an adjuvant.

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.



ASPARAGUS

GENERAL: Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Esteem 35 WP Insect Growth Regulator does exhibit translaminar movement which means that Esteem 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where

whitefly are present.

PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Whitefly	2.5 to 3 oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A).
		HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.
		Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g., 3 to 5 adults per leaf and/or equivalent levels of immatures).
		Under severe pressure, use the higher recommended rates.
		Only whole fields should be treated.

- Do not apply within 7 days of harvest.
- Do not make more than 2 *Esteem* 35 WP Insect Growth Regulator applications per growing season.
- Do not exceed 6 oz of Esteem 35 WP Insect Growth Regulator per acre per season.
- Do not apply earlier than 14 days after last Esteem 35 WP Insect Growth Regulator treatment.
- Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per acre per season.
- Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.
- Do not apply this product with an adjuvant.

MANAGING WHITEFLY RESISTANCE: Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Esteem 35 WP Insect Growth Regulator to two applications per growing season. Esteem 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

LEAFY VEGETABLES (EXCEPT BRASSICA VEGETABLES) (Crop Group 4)

Amaranth (Chinese Spinach); Arugula (Roquette); Cardoon; Celery; Celery, Chinese; Celtuce; Chervil; Chrysanthemum, Edible-Leaved; Chrysanthemum, Garland; Corn Salad; Cress, Garden; Cress, Upland; Dandelion; Dock (Sorrel); Endive (Escarole); Fennel Florence; Lettuce, Head and Leaf; Orach; Parsley; Purslane, Garden; Purslane, Winter; Radicchio (Red Chicory); Rhubarb; Spinach; New Zealand Spinach; Vine Spinach; Swiss Chard

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PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly	2.5 to 3 oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A).
Sweetpotato Whitefly		HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.
		Begin applications when whiteflies reach threshold levels per University/Extension recommendations
		Under severe pressure, use the higher recommended rates.
		Only whole fields should be treated.

- Do not apply within 14 days of harvest.
- Do not make more than 2 Esteem 35 WP Insect Growth Regulator applications per growing season
- Do not exceed 6 oz Esteem 35 WP Insect Growth Regulator per acre per season.
- Do not apply earlier than 14 days after last Esteem 35 WP Insect Growth Regulator treatment.
- Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per acre per season.
- Do not plant any crop other than those with registered pyriproxyfen uses trivite ated areas sooner than 30 days after the last application.
- Do not apply this product with an adjuvant.

management practices, Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator r to two applications per growing season.

Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

LEAVES OF ROOT & TUBER VEGETABLES (Crop Group 2)

Beet, Garden; Burdock, Edible; Carrot; Cassava, Bitter; Cassava, Sweet; Celeriac; Chervil, Turnip-Rooted; Chicory; Dasheen (Taro); Parsnip; Radish; Radish, Oriental (Daikon); Rutabaga; Salsify, Black; Sugar Beet; Sweet Potato; Tanier; Turnip; Yam, True

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Esteem 35 WP Insect Growth Regulator does exhibit translaminar movement which means that Esteem 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Banded Wing Whitefly Greenhouse	2.5 to 3 oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A).
Whitefly Silverleaf Whitefly Sweetpotato		HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.
Whitefly		Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures).
		Under severe pressure, use the higher recommended rates.
		Only whole fields should be treated.

- Do not apply within 7 days of harvest.
- Do not make more than 2 Esteem 35 WP Insect Growth Regulator applications per growing season.
- Do not exceed 6 oz Esteem 35 WP Insect Growth Regulator per acre per season.
- Do not apply earlier than 14 days after last Esteem 35 WP Insect Growth Regulator treatment.
- Regardless of formulation do not apply more than 0.109 lb pyriproxyfen per acre per season.
- Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.
- Do not allow livestock to graze on treated areas.
- Do not apply this product with an adjuvant.

MANAGING WHITEFLY RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz/A for whitefly control

because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

SMALL FRUIT VINE CLIMBING CROPS (EXCEPT GRAPE)(Crop Group 13-07E)

Berry, Schisandra; Gooseberry; Grape, Amur River; Kiwifruit, Fuzzy; Kiwifruit, Hardy; Maypop; and cultivars, varieties and/or hybrids of these

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PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Scale	5 oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.
		Apply at either dormant, delayed dormant or an in-season cover spray. At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in-season use and rates of oil in your area.

Esteem 35 WP Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

- Do not apply within 30 days of harvest.
- Do not make more than 2 *Esteem* 35 WP Insect Growth Regulator applications per growing season.
- Do not exceed 10 oz of Esteem 35 WP Insect Growth Regulator per acre per season.
- Do not apply earlier than 14 days after last Esteem 35 WP Insect Growth Regulator treatment.
- Regardless of formulation do not apply more than 0.218 lb pyriproxyfen per acre per season.
- Do not apply this product with an adjuvant.

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticides.

WATERCRESS

GENERAL: Esteem 35 WP Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 35 WP Insect Growth Regulator has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Esteem 35 WP is an insect growth regulator (IGR) and activity depends on the insects' development, evidence of activity will be slower than typical contact insecticides.

Esteem 35 WP Insect Growth Regulator exhibits translaminar movement which means that Esteem 35 WP Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Sharpshooters Whitefly	2.5 to 3 oz	Apply with ground equipment as a full coverage spray (10 to 50 gals/A). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.
		Begin applications when whiteflies reach threshold levels per University/Extension recommendations
		Under severe pressure, use the higher recommended rates.
		Only whole fields should be treated.

- Do not apply within 7 days of harvest.
- Do not make more than 2 Esteem 35 WP Insect Growth Regulator applications per growing season.
- Do not exceed 6 oz Esteem 35 WP Insect Growth Regulator per acre per season.
- Do not apply earlier than 14 days after last *Esteem* 35 WP Insect Growth Regulator treatment.
- Regardless of formulation, do not apply more than 0.134 lb of pyriproxyfen per acre per season.
- Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.
- Do not apply this product with an adjuvant.

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting *Esteem* 35 WP Insect Growth Regulator to two applications per growing season. *Esteem* 35 WP Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 2.5 oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Integrated Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

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