U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460 NOTICE OF PESTICIDE: <u>X</u> Registration (under FIFRA, as amended) U.S. ENVIRONMENTAL PROTECTION AGENCY B9168-124 Term of Issuance: Unconditional Name of Pesticide Product:				
NOTICE OF PESTICIDE:     Term of Issuance:				
X     Registration     Term of Issuance:				
Liberty Pyriproxyfen 35 WSB				
Name and Address of Registrant (include ZIP Code):				
Liberty Crop Protection, LLC 1880 Fall River Drive, Suite 100 Loveland, CO 80538				
Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number				
On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.				
Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.				
This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:				
<ol> <li>Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.</li> <li>Make the following label changes before you release the product for shipment:</li> </ol>				
• Revise the EPA Registration Number to read, "EPA Reg. No. 89168-124."				
3. Submit one copy of the revised final printed label for the record before you release the product for shipment.				
Signature of Approving Official: Date:				
Jamin Cair				
Tamica Cain, Acting Product Manager 10 12/1/21				
Invertebrate Vertebrate Branch 2				
Registration Division (7505P)       EPA Form 8570-6				

Page 2 of 2 EPA Reg. No. 89168-124 Decision No. 570081

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 1/15/2021
- Alternate CSF 1 dated 1/15/2021

If you have any questions, please contact David Drawbaugh by phone at 202-566-2604, or via email at Drawbaugh.David@epa.gov

Enclosure

**{BOOKLET FRONT PANEL LANGUAGE}** 

PYRIPROXFEN GROUP 7 INSECTICIDE

# LIBERTY PYRIPROXYFEN 35 WSB

**Insect Growth Regulator** 

ACTIVE INGREDIENT:	By Wt.
*Pyriproxyfen	
OTHER INGREDIENTS:	
TOTAL:	
*2-[1-methyl-2-(4-phenoxyphenoxy) ethoxy]pyridine	

LIBERTY PYRIPROXYFEN 35 WSB is a wettable powder formula containing 35% active ingredient.

# KEEP OUT OF REACH OF CHILDREN CAUTION

See inside label booklet for First Aid, Precautionary Statements and Directions for Use.

EPA Reg. No.: 89168-XX EPA Est. No.: Net Contents: \_\_\_\_\_

> Manufactured For: LIBERTY CROP PRODUCTION, LLC 1880 FALL RIVER DRIVE, SUITE 100 LOVELAND, CO 80538



112921

# {LANGUAGE INSIDE BOOKLET}

	FIRST AID		
lf in eyes:	<ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>		
<ul> <li>If inhaled:</li> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>			
<ul> <li>If swallowed:</li> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>			
lf on skin or clothing:	<ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>		
HOT LINE NUMBER Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: 1-800-424- 9300.			

### For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND 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 and before eating, drinking, chewing gum, using tobacco or using the toilet.

# PERSONAL PROTECTIVE EQUIPMENT (PPE):

## Applicators and other handlers must wear:

- Long-sleeved shirt,
- Long pants,
- 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/PPE 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.

# PHYSICAL OR CHEMCIAL HAZARDS

Do not mix or allow to come in contact with oxidizing agents. Hazardous chemical reaction will occur.

# **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 (WPS), 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 (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

# 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 WPS 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,
- Socks plus shoes

# 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 the user, applicator and/or applicator advisor, to the extent allowable by applicable law.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

## **RESISTANCE MANAGEMENT**

For resistance management, LIBERTY PYRIPROXYFEN 35 WSB is a Group 7 Insecticide. Any insect population may contain individuals naturally resistant to LIBERTY PYRIPROXYFEN 35 WSB and other Group 7 insecticides.

The resistant individuals may dominate the insect population if this group of insecticide are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of LIBERTY PYRIPROXYFEN 35 WSB or other Group 7 insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistancemanagement and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Liberty Crop Protection at 844-425-8488. You can also contact your pesticide distributor or university extension specialist to report resistance.

Refer to specific crop sections for "Managing Insect Resistance" language applicable to that crop.

# SPRAY DRIFT

#### Aerial Applications

- Do not release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to use a fine or coarser droplet size (ASABE S572.1), except for when applying ultra-low volume applications.
- Applicators must use 1/2 swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Do not apply during temperature inversions.

## Airblast Applications

- All sprays must be directed into the canopy.
- Nozzles directed out of the orchard must be turned off when treating the outer row, or when making turns between rows.
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

#### **Groundboom Applications**

- User must only apply with the nozzle height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use a fine or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 15 miles per hour at the application site. Do not apply during temperature inversions.

#### SPRAY DRIFT ADVISORIES

# THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

#### IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

#### **Controlling Droplet Size – Ground Boom**

- Volume Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### **Controlling Droplet Size – Aircraft**

Adjust Nozzles – Follow nozzle manufacturer's recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

#### **BOOM HEIGHT – Ground Boom**

For ground equipment, the boom should remain level with the crop and have minimal bounce.

#### **RELEASE HEIGHT - Aircraft**

Higher release heights increase the potential for spray drift.

#### SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

#### **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

#### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

## WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

# WATER SOLUBLE PACKAGING

#### [MULTIPLE PACKAGING

This bag contains multiple water-soluble packets of LIBERTY PYRIPROXYFEN 35 WSB. 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 LIBERTY PYRIPROXYFEN 35 WSB. 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 LIBERTY PYRIPROXYFEN 35 WSB into spray tank.]

TABLE OF EQUIVALENTS			
RATES OF	# OF WATER		
LIBERTY PYRIPROXYFEN 35 WSB	SOLUBLE PACKETS		
PER ACRE	TO TREAT 5 ACRES		
3 oz.	3		
4 oz.	4		
5 oz.	5		

# **PRODUCT INFORMATION**

LIBERTY PYRIPROXYFEN 35 WSB is intended for use in Integrated Pest Management (IPM) or Insect Resistance Management (IRM) programs. LIBERTY PYRIPROXYFEN 35 WSB will not control adult insects, 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.

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

## **RESTRICTIONS FOR ALL APPLICATIONS:**

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

# **ARTICHOKE (GLOBE)**

#### [Not For Use in] [California] [New York]

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

LIBERTY PYRIPROXYFEN 35 WSB does exhibit translaminar movement which means that LIBERTY PYRIPROXYFEN 35 WSB 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 whiteflies since one of the major obstacles is getting the product to the underside of the leaves where whiteflies are present.

PESTS	PRODUCT RATES PER ACRE	APPLICATION INSTRUCTIONS
Artichoke Plume Moth Bandedwinged Whitefly Greenhouse Whitefly	2.5 to 3 oz.	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gal./A). HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT
Silverleaf Whitefly Sweetpotato Whitefly		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 specified rates.

LIBERTY PYRIPROXYFEN 35 WSB may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

#### **Restrictions:**

- Do not apply within 7 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 6 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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.
- Only whole fields should be treated.

**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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. LIBERTY CROP PRODUCTION, LLC 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**

#### [Not For Use in] [California] [New York]

**GENERAL:** LIBERTY PYRIPROXYFEN 35 WSB acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. LIBERTY PYRIPROXYFEN 35 WSB has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since LIBERTY

PYRIPROXYFEN 35 WSB is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

LIBERTY PYRIPROXYFEN 35 WSB does exhibit translaminar movement which means that LIBERTY PYRIPROXYFEN 35 WSB 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 whiteflies since one of the major obstacles is getting the product to the underside of the leaves where whiteflies are present.

PESTS	PRODUCT RATES PER ACRE	APPLICATION INSTRUCTIONS
Whiteflies	2.5 to 3 oz.	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gal./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 specified rates.
Restrictions:	1	

- Do not apply within 7 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 6 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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.
- Only whole fields should be treated.

**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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. LIBERTY CROP PRODUCTION, LLC 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.

# **BANANAS AND PLANTAIN**

[Not For Use in] [California] [New York]

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

LIBERTY PYRIPROXYFEN 35 WSB does exhibit translaminar movement which means that LIBERTY PYRIPROXYFEN 35 WSB 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 whiteflies since one of the major obstacles is getting the product to the underside of the leaves where whiteflies are present.

PESTS	PRODUCT RATES PER ACRE	APPLICATION INSTRUCTIONS	
Bandedwinged Whitefly Greenhouse Whitefly	4 to 5 oz.	Apply with air or ground equipment in adequate water for uniform coverage:	
Silverleaf Whitefly Sweetpotato Whitefly		By air: 3 to 10 gal./A By ground: 10 to 50 gal./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.	
Restrictions:			
<ul> <li>Do not apply within 14 days of harvest.</li> </ul>			
<ul> <li>Do not make more than 3 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.</li> </ul>			
<ul> <li>Do not exceed 15 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.</li> </ul>			

• Regardless of formulation, do not apply more than 0.327 lb. pyriproxyfen per acre per season.

• Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB treatment.

• 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 or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than three applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. LIBERTY CROP PRODUCTION, LLC 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.

# BERRY

# Low Growing, Except Strawberry (Subgroup 13-07H)

[Not For Use in] [California] [New York]

CROPS	PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Bearberry Bilberry Blueberry, Lowbush Cloudberry Cranberry Lingonberry Muntries Partridgeberry	Cherry Fruitworm Cranberry Fruitworm Lecanium Scales	5 oz.	Apply with ground or air equipment as a full coverage spray (minimum of 5 gal./A by air or 50 gal./A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.
Cultivars, varieties, and/or hybrids of these			<b>Fruitworms:</b> 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.
			<b>Lecanium Scales:</b> 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.

#### **Restrictions:**

- Do not apply within 7 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 10 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB 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)

LIBERTY PYRIPROXYFEN 35 WSB does exhibit translaminar movement which means that LIBERTY PYRIPROXYFEN 35 WSB 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 whiteflies since one of the major obstacles is getting the product to the underside of the leaves where whiteflies are present.

Broccoli Raab (rapini)Whiteflywater for uniform coverage (10 to 50Brussels SproutsGreenhousegal./A).	CROPS	PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Cauliflower Cavalo BroccoloSilverleaf Whitefly SweetpotatoHIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.Chinese Broccoli (gailon) Chinese Cabbage (bok choy and napa)WhiteflyBegin applications when whiteflies reach 	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	Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato	2.5 to 3 oz.	<ul> <li>gal./A).</li> <li>HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.</li> <li>Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g., 3 to 5 adults per leaf and/or or equivalent levels of immatures).</li> <li>Under severe pressure, use the higher specified rates.</li> </ul>

#### **Restrictions:**

- Do not apply within 7 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 6 oz. LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. LIBERTY CROP PRODUCTION, LLC 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 3-07)

CROPS	PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Garlic Garlic, Great Headed Leek Onion, Dry Bulb. Onion, Green Onion, Welsh Shallot	Onion Thrips Western Flower Thrips	2.5 oz.	FOR SUPPRESSION OF THRIPS: Apply with ground equipment in adequate water for uniform coverage (20 to 50 gal./A). Begin applications when thrips reach threshold levels per University/Extension. Thorough coverage is critical for adequate water volume to ensure thorough coverage.

## **Restrictions:**

- Do not apply within 3 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 5 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB 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.

# BUSHBERRY

# (Subgroup 13-07B)

CROPS	PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Aronia Berry Blueberry, Highbush Blueberry, Lowbush Buffalo Currant Chilean Guava Cranberry, Highbush Currant, Black Currant, Red Elderberry European Barberry Gooseberry	Cherry Fruitworm Cranberry Fruitworm Lecanium Scales	5 oz.	Apply with ground or air equipment as a full coverage spray (minimum of 5 gal./A by air or 50 gal./A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage. <b>Fruitworms:</b> Apply when egg laying begins and again at petal fall.

Lingonberry Native Currant Salal Sea Buckthorn Cultivars, varieties, and/or hybrids of these Lecanium Scales: 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.	Honeysuckle, Edible Huckleberry Jostaberry Juneberry Saskatoon Berry)	Additional applications of another insecticide, at 10 to 14 day intervals, may be needed under high population pressure or sustained moth flight.
	Salal Sea Buckthorn Cultivars, varieties,	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

#### **Restrictions:**

- Do not apply within 7 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 10 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB 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.

# CANEBERRY

# (Subgroup 13-07A)

[Not For Use in] [California] [New York]

		PRODUCT	
CROPS	PESTS	RATE PER ACRE	APPLICATION INSTRUCTIONS
Blackberry including:	Cherry Fruitworm	5 oz.	Apply with ground or air equipment as
Bingleberry	Cranberry Fruitworm		a full coverage spray (minimum of 5
Black Satin Berry	Lecanium Scales		gal./A by air or 50 gal./A by ground).
Boysenberry			Thorough coverage is critical for
Cherokee Blackberry			adequate control. It is essential to use
Chesterberry			adequate water volume to ensure
Cheyenne Blackberry			thorough coverage.
Coryberry			Fruitworms: Apply when egg laying
Darrowberry			begins and again at petal fall.
Dewberry			Additional applications of another
Dirksen Thornless Berry			insecticide, at 10 to 14 day intervals,
Himalayaberry			may be needed under high population
Hullb.erry			pressure or sustained moth flight.
Lavacaberry Lowberry			Lesenium Seeles, Apply at either
Lucretiaberry			Lecanium Scales: Apply at either dormant, delayed dormant or an in-
Mammoth Blackberry			season cover spray. At dormant or
Marionberry			delayed dormant use a spray oil at the
Necterberry			manufacturer's recommended oil rate.
Olallieberry			In a cover spray make applications
Oregon Evergreen berry			when scale crawlers first emerge.
Phenomenalb.erry			Follow local recommendations
Rangerberry			regarding in-season use and rates of
Ravenberry			oil in your area.
Rossberry			
Shawnee Blackberry			
Loganberry			
Raspberry, including:			
Bababerry			
Black raspberry			
Blackcap			
Caneberry			
Framboise			
Frambueso			
Himbeere			
Keriberry			
Mayberry			
Red raspberry			
Thimbleberry			
Tulameen			
Yellow raspberry			
Wild raspberry			
Youngberry			
Cultivars, varieties, and/or			
hybrids of these	E WSP may be mixed a	d/or alternated	with commonly used insecticides to

#### **Restrictions:**

- Do not apply within 7 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 10 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB 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.

# **CITRUS FRUIT**

## (Crop Group 10-10)

CROPS	PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Australian Desert Lime Australian Finger-lime Australian Round Lime Brown River Finger Lime Calamondin Citron	Black Scale Brown Soft Scale California Red Scale Florida Red Scale Snow Scale	5 oz.	Apply with ground equipment in 200 to 1500 gal./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.
Citrus hybrids Grapefruit Japanese Summer Grapefruit Kumquat Lemon			Apply any time prior to fruit becoming infested when scale is in the crawler stage. Thorough coverage is essential for good control.
Lime Mediterranean Mandarin Mount White Lime New Guinea Wild Lime Orange, Sour Orange, Sweet Pummelo Russell River Lime Satsuma Mandarin Sweet Lime Tachibana Orange Tahiti Lime Tangelo Tangerine (mandarin) Tangor Trifoliate Orange Uniq Fruit Cultivars, varieties,			LIBERTY PYRIPROXYFEN 35 WSB may be applied with superior spray oils at ½ to 1%. Follow the manufacturer's directions and recommendations on timing and rates.
			ated with commonly used insecticides of Resistance Management (IRM)

#### **Restrictions:**

- Do not apply within 1 day of harvest.
- Do not make more than 1 LIBERTY PYRIPROXYFEN 35 WSB application per growing season.
- Do not exceed 5 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Regardless of formulation, do not apply more than 0.134 lb. pyriproxyfen per acre per season.
- For scale apply only one application during emergence of scale crawlers per calendar year.

		PRODUCT	
CROPS	PESTS	RATE	APPLICATION INSTRUCTIONS
		PER ACRE	
Australian Desert Lime	Citrus Blackfly	3 oz.	Apply with ground application in 200
Australian Finger-lime	Citrus Leafminer		to 1500 gal./A. Apply in sufficient
Australian Round Lime	Citrus Whitefly		water volume for tree size.
Brown River Finger Lime			Thorough coverage is critical for control. It is essential to use
Calamondin			adequate water volume to ensure
Citron			thorough coverage.
Citrus hybrids			5 5
Grapefruit			Apply when pests are just beginning
Japanese Summer			to build and before infestation has
Grapefruit			occurred. Thorough coverage is
Kumquat			essential for good control.
Lemon			
Lime			
Mediterranean			
Mandarin			
Mount White Lime			
New Guinea Wild Lime			
Orange, Sour			
Orange, Sweet			
Pummelo			
Russell River Lime			
Satsuma Mandarin			
Sweet Lime			
Tachibana Orange			
Tahiti Lime			
Tangelo			
Tangerine (mandarin)			
Tangor			
Trifoliate Orange			
Uniq Fruit			
Cultivars, varieties,			
and/or hybrids of these		 	ated with commonly used

LIBERTY PYRIPROXYFEN 35 WSB 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.

# **Restrictions:**

- Do not apply within 1 day of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 6 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Regardless of formulation do not apply more than 0.134 lb. pyriproxyfen per acre per season.
- Do not apply earlier than 21 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB 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.

# COTTON

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

LIBERTY PYRIPROXYFEN 35 WSB does exhibit translaminar movement which means that LIBERTY PYRIPROXYFEN 35 WSB 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 whiteflies since one of the major obstacles is getting the product to the underside of the leaves where whiteflies are present.

PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Bandedwinged Whitefly Greenhouse Whitefly	2.5 to 3 oz.	Apply with air or ground equipment in adequate water for uniform coverage:
Silverleaf Whitefly Sweetpotato Whitefly	Do not apply less than 2.5 oz./A	By Air: 3 to 10 gal./A By Ground: 10 to 50 gal./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 specified rates.
		Only whole fields should be treated.

## **Restrictions:**

• Do not apply within 28 days of harvest.

• Do not make more than 1 LIBERTY PYRIPROXYFEN 35 WSB application per growing season.

• Do not exceed 3 oz. LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than one application per growing season. LIBERTY PYRIPROXYFEN 35 WSB may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. LIBERTY CROP PRODUCTION, LLC 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.

# **CUCURBITS**

## (Crop Group 9)

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

LIBERTY PYRIPROXYFEN 35 WSB does exhibit translaminar movement which means that LIBERTY PYRIPROXYFEN 35 WSB 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 whiteflies since one of the major obstacles is getting the product to the underside of the leaves where whiteflies are present.

Balsam PearWhiteflyBitter MelonGreenhouse WhiteflyCantaloupeGreenhouse WhiteflyChayoteSilverleaf WhiteflyChinese CucumberSweetpotato WhiteflyChinese WaxgourdSweetpotato WhiteflyCitron Melon2.5 fl oz./ACucumberEdible GourdEdible GourdGherkinMomordica spp.MuskmelonPumpkinSummer Squash	CROPS	PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Restrictions:	Balsam Pear Bitter Melon Cantaloupe Chayote Chinese Cucumber Chinese Waxgourd Citron Melon Cucumber Edible Gourd Gherkin <i>Momordica</i> spp. Muskmelon Pumpkin Summer Squash Watermelon Winter Squash	Whitefly Greenhouse Whitefly Silverleaf Whitefly	Do not apply less than	By Ground: 10 to 50 gal./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 specified rates.

- Do not apply within 7 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 6 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. LIBERTY CROP PRODUCTION, LLC 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.

# FRUITING VEGETABLES

(Crop Group 8-10)

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

LIBERTY PYRIPROXYFEN 35 WSB does exhibit translaminar movement which means that LIBERTY PYRIPROXYFEN 35 WSB 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 whiteflies since one of the major obstacles is getting the product to the underside of the leaves where whiteflies are present.

CROPS	PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
African Eggplant Bush Tomato Bell Pepper Cocona Currant Tomato	Bandedwinged Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	2.5 to 3 oz. Do not apply less	Apply with air or ground equipment in adequate water for uniform coverage: By Air: 3 to 10 gal./A By Ground: 10 to 50 gal./A
Eggplant Garden Huckleberry Goji Berry Ground Cherry Martynia Naranjilla Okra Pea Eggplant Pepino Pepper, Bell		than 2.5 oz./A of LIBERTY PYRIPROXYFEN 35 WSB when used as a stand- alone application.	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 specified rates. Only whole fields should be treated.
Pepper, Nonbell Roselle Scarlet Eggplant Sunberry Tomatillo Tomato Tree Tomato Cultivars, varieties, and/or hybrids or these	Bandedwinged Whitefly Cabbage Looper Green Peach Aphid Greenhouse Whitefly (immatures & adults) Silverleaf Whitefly Sweetpotato Whitefly Tobacco Hornworm	1.8 to 2.5 oz.	Apply as a tank mix with ground equipment for uniform coverage (25 to 150 gal./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. LIBERTY PYRIPROXYFEN 35 WSB 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 tank mix partner label.

CROPS	PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Tomato	Bandedwinged Whitefly	1.8 to 2.5 oz.	EARLY SEASON WHITEFLY CONTROL PROGRAM FOR REDUCTION OF
	Beet Armyworm Fruitworms Greenhouse Whitefly (immatures & adults) Potato Aphid Silverleaf Whitefly	+ Label specified amount of a Fenpropathrin insecticide	GEMINIVIRUS: Apply as a tank mix with ground equipment for uniform coverage (10 to 120 gal./A). Make application when scouting first indicates adult whiteflies are on young plants. <b>NOTE:</b> This may result in treatment immediately following transplanting.
	Sweetpotato Whitefly Thrips Tomato Pinworm Yellowstriped Armyworm		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 gal./A by ground). Make application when scouting indicates whiteflies are present.
			LIBERTY PYRIPROXYFEN 35 WSB 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 label for the Fenpropathrin insecticide.

#### **Restrictions:**

- Do not apply within 14 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 5 oz. LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB treatment.
- Regardless of formulation do not apply more than 0.109 lb. pyriproxyfen per acre per season.
- Do not plan 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. LIBERTY CROP PRODUCTION, LLC 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 IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

# GRAPE

#### [Not For Use in New York]

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

PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Glassy-Winged Sharpshooter Grape Berry Moth Lecanium Scales	5 oz.	Apply with ground equipment as a full coverage spray (50 to 200 gal./A). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.
		<b>Lecanium Scales:</b> 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.

LIBERTY PYRIPROXYFEN 35 WSB may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

#### **Restrictions:**

- Do not apply within 21 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 10 oz. LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB 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.

## HERB

#### (Subgroup 19A)

#### [Not For Use in] [California] [New York]

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

LIBERTY PYRIPROXYFEN 35 WSB does exhibit translaminar movement which means that LIBERTY PYRIPROXYFEN 35 WSB 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 whiteflies since one of the major obstacles is getting the product to the underside of the leaves where whiteflies are present.

CROPS	PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Angelica Balm Basil Borage	Whiteflies, including: Bandedwinged Whitefly Greenhouse	2.5 to 3 oz.	Apply with ground equipment in adequate water for uniform coverage. A minimum of 20 gallons per acre for ground
Burnet Chamomile Catnip Chervil (dried)	Whitefly Silverleaf Whitefly Sweetpotato Whitefly		applications. HIGHER WATER VOLUMES MAY PROVIDE IMPROVED
Chive Chive, Chinese Clary Coriander (leaf)			INSECT CONTROL. Begin application when whiteflies reach threshold levels.
Costmary Cilantro (leaf) Curry (leaf)			Under severe pressure, use the higher specified rates.
Dillweed Horehound Hyssop Lavender			Treat only whole fields.
Lemongrass Lovage (leaf) Marigold			
Marjoram Nasturtium Parsley (dried)			
Pennyroyal Rosemary Rue Sage			
Savory, Summer and Winter Sweet Bay Tansy			
Tarragon Thyme Wintergreen			
Woodruff Wormwood Restrictions:			

- Do not apply within 1 (one) day of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 6 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB treatment.
- Regardless of formulation do not exceed 0.134 lb. pyriproxyfen per acre per season.
- Do not plant any crop other than those with registered LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. LIBERTY CROP PRODUCTION, LLC 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.

# LEAFY VEGETABLES

#### Except Brassica Vegetables (Crop Group 4)

[Not For Use in] [California] [New York]

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

LIBERTY PYRIPROXYFEN 35 WSB does exhibit translaminar movement which means that LIBERTY PYRIPROXYFEN 35 WSB 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 whiteflies since one of the major obstacles is getting the product to the underside of the leaves where whiteflies are present.

PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Bandedwinged Whitefly Greenhouse Whitefly	2.5 to 3 oz.	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gal./A).
Silverleaf Whitefly 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 specified rates.
		Only whole fields should be treated.
	Bandedwinged Whitefly Greenhouse Whitefly Silverleaf Whitefly	PESTSRATE PER ACREBandedwinged2.5 to 3 oz.WhiteflyGreenhouse WhiteflySilverleaf Whitefly

#### **Restrictions:**

- Do not apply within 14 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 6 oz. LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. LIBERTY CROP PRODUCTION, LLC 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

#### Human Food or Animal Feed (Crop Group 2)

[Not For Use in] [California] [New York]

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

LIBERTY PYRIPROXYFEN 35 WSB does exhibit translaminar movement which means that LIBERTY PYRIPROXYFEN 35 WSB 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 whiteflies since one of the major obstacles is getting the product to the underside of the leaves where whiteflies are present.

CROPS	PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
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	Bandedwinged 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 gal./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 specified rates. Only whole fields should be treated.
Postrictions:	1		1

#### **Restrictions:**

- Do not apply within 7 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 5 oz. LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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.

**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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. LIBERTY CROP PRODUCTION, LLC 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.

# LEGUME VEGETABLES

Succulent or Dried (Crop Group 6)

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

LIBERTY PYRIPROXYFEN 35 WSB does exhibit translaminar movement which means that LIBERTY PYRIPROXYFEN 35 WSB 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 whiteflies since one of the major obstacles is getting the product to the underside of the leaves where whiteflies are present.

CROPS	PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Beans ( <i>Lupinus</i> ): Grain Lupin Sweet Lupin White Lupin White Sweet Lupin	Bandedwinged Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	2.5 to 3 oz.	EARLY SEASON WHITEFLY PROGRAM: Apply with ground equipment in adequate water for uniform coverage (10 to 50 gal./A). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.
Beans ( <i>Phaseolus</i> ): Field Bean Kidney Bean Lima Bean			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).
Navy Bean Pinto Bean Runner Bean Snap Bean Tepary Bean Wax Bean Bean ( <i>Vigna</i> ):			Under severe pressure, use the higher specified rates. Only whole fields should be treated.
Bean ( <i>Vigna</i> ): 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			
Lentil			
Pea (Pisum):			
Dwarf Pea			
Edible-podded			
Pea			
English Pea			
Field Pea			
Garden Pea			
Green Pea			
Snowpea			
Sugar Snap Pea			
Pigeon Pea			
Soybean			
Sword Bean			
Restrictions:			

- Restrictions:
- [California only] [New York only] [not for use on soybeans]
- Do not apply within 7 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 6 oz. LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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 allow livestock to graze on treated areas.
- Do not use on legume vegetables varieties grown for livestock feed.

**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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. LIBERTY CROP PRODUCTION, LLC 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.

## OLIVE

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

PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Black Scale San Jose Scale	4 to 5 oz.	Apply with ground equipment in 100 to 400 gal./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 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. Under heavy scale pressure, use the higher rate of
		LIBERTY PYRIPROXYFEN 35 WSB.

LIBERTY PYRIPROXYFEN 35 WSB may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

#### **Restrictions:**

- Do not apply within 7 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.

• Do not exceed 10 oz. LIBERTY PYRIPROXYFEN 35 WSB per acre per season.

- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB 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.

# PASTURE GRASS AND RANGELAND

[Not For Use in] [California] [New York]

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

PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS	
Crickets Grasshoppers	2.5 to 3 oz.	Apply with air or ground equipment in adequate wate for uniform coverage:	
Locusts		By air 3 to 10 gal./A By ground 10 to 50 gal./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 specified rates.	

LIBERTY PYRIPROXYFEN 35 WSB may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

#### **Restrictions:**

- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 6 oz. LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Regardless of formulation, do not apply more than 0.134 lb. pyriproxyfen per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB treatment.
- 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB 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.

# PAWPAW

#### [Not For Use in] [California] [New York]

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

LIBERTY PYRIPROXYFEN 35 WSB does exhibit translaminar movement which means that LIBERTY PYRIPROXYFEN 35 WSB 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 whiteflies since one of the major obstacles is getting the product to the underside of the leaves where are present.

PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Scales Whiteflies	4 to 5 oz.	Apply 100 to 400 gal./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.
		<b>Scales:</b> 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 LIBERTY PYRIPROXYFEN 35 WSB.

In-season sprays of LIBERTY PYRIPROXYFEN 35 WSB may not protect fruit from blemishes by scale.

LIBERTY PYRIPROXYFEN 35 WSB may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

### **Restrictions:**

- Do not apply within 14 days of harvest.
- Do not make more than 3 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 15 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than three applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. LIBERTY CROP PRODUCTION, LLC 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.

# PINEAPPLE

#### [Not For Use in] [California] [New York]

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

PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Black Scale Brown Soft Scale California Red Scale Florida Red Scale Citrus Snow Scale	5 oz.	Apply with ground equipment in 20 to 50 gal./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 any time prior to fruit becoming infested when scale is in the crawler stage. Application at the 2 <sup>nd</sup> or 3 <sup>rd</sup> generation of scale may result in excessive dead scale remaining on the fruit at harvest. Thorough coverage is essential for good control.
		LIBERTY PYRIPROXYFEN 35 WSB may be applied with superior spray oils at ½ to 1%. Follow the manufacturer's directions and recommendations on timing and rates.

LIBERTY PYRIPROXYFEN 35 WSB may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

#### **Restrictions:**

- Do not apply within 1 day of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per calendar year.
- Do not exceed 5 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 21 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB 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.

# POME FRUIT

## (Crop Group 11-10)

PESTS	PRODUCT RATES PER ACRE	APPLICATION INSTRUCTIONS
Codling Moth Suppression of: Pandemis	4 to 5 oz.	Apply by ground with airblast equipment in a minimum of 50 gal./A. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
Leafroller Obliquebanded Leafroller		1 <sup>st</sup> 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 LIBERTY PYRIPROXYFEN 35 WSB. Follow local recommendations regarding in-season use and rates of oil in your area.
		<b>Obliquebanded and Pandemis Leafroller:</b> Apply to the overwintering larvae at pink to petal fall tree growth stage. LIBERTY PYRIPROXYFEN 35 WSB does not directly control the larvae but inhibits normal pupation and adult emergence.
Florida Red Scale Lecanium Scales San Jose Scale	4 to 5 oz.	Apply by ground with airblast equipment in a minimum of 50 gal./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 LIBERTY PYRIPROXYFEN 35 WSB.
		<b>Scales:</b> 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.
	Codling Moth Suppression of: Pandemis Leafroller Obliquebanded Leafroller Florida Red Scale Lecanium Scales	PESTSRATES PER ACRECodling Moth4 to 5 oz.Suppression of: Pandemis Leafroller

CROPS	PESTS	PRODUCT RATES PER ACRE	APPLICATION INSTRUCTIONS
Apple Azarole Crabapple Loquat	Apple Aphid Rosy Apple Aphid	3 to 5 oz.	Apply by ground with airblast equipment in a minimum of 50 gal./A. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
Medlar Mayhaw Quince Quince, Chinese	Spirea Aphid Spotted Tentiform Leafminer		<b>Leafminers:</b> Apply at peak moth flight for control of 1 <sup>st</sup> or 2 <sup>nd</sup> generation. This usually occurs at pre-pink to pink apple stage for 1 <sup>st</sup> generation and 2 <sup>nd</sup> cover for 2 <sup>nd</sup> generation.
Quince, Japanese Tejocote Cultivars,	Western Tentiform Leafminer		<b>Rosy Apple Aphid:</b> Apply at ½" green apple growth stage.
varieties, and/or			<b>Green Apple &amp; Spirea Aphid:</b> Apply when aphids first appear, but before aphids are colonized.
hybrids of these			TIMING IS CRITICAL FOR ACCEPTIABLE APHID CONTROL.
Pear Pear, Asian	Pear Psylla	4 to 5 oz.	Apply by ground with airblast equipment in 75 to 400 gal./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 SKIP ROWS DURING APPLICATION.
			For in-season control of pear psylla, use an insecticide recommended for this use.
	Lecanium Scales San Jose Scale	4 to 5 oz.	Apply by ground with airblast equipment in 100 to 400 gal./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.

CROPS	PESTS	PRODUCT RATES PER ACRE	APPLICATION INSTRUCTIONS
Pear Pear, Asian	Codling Moth Suppression of: Obliquebanded Leafroller Pandemis Leafroller	4 to 5 oz.	Apply by ground with airblast equipment in 100 to 400 gal./A. <b>1</b> <sup>st</sup> <b>Generation Codling Moth:</b> Apply at Biofix plus 100 degree days. Make a second application 14 to 21 days later or times 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 LIBERTY PYRIPROXYFEN 35 WSB. 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.

- Do not apply within 45 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 10 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB 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.

# POMEGRANATE

[Not For Use in] [California] [New York]

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

LIBERTY PYRIPROXYFEN 35 WSB does exhibit translaminar movement which means that LIBERTY PYRIPROXYFEN 35 WSB 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 whiteflies since one of the major obstacles is getting the product to the underside of the leaves where whiteflies are present.

PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS	
Bandedwinged 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 gal./A By ground: 10 to 50 gal./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).	
Restrictions:		Only whole fields should be treated.	

- Do not apply within 14 days of harvest.
- Do not make more than 3 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 15 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB treatment.
- Regardless of formulation, do not apply more than 0.327 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than three applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. LIBERTY CROP PRODUCTION, LLC 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)

[Not For Use in] [California] [New York]

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

LIBERTY PYRIPROXYFEN 35 WSB does exhibit translaminar movement which means that LIBERTY PYRIPROXYFEN 35 WSB 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 whiteflies since one of the major obstacles is getting the product to the underside of the leaves where whiteflies are present.

CROPS	PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Arracacha Arrowroot Artichoke, Chinese	Bandedwinged Whitefly Greenhouse Whitefly	2.5 oz.	Apply with ground equipment in adequate water for uniform coverage (20 to 50 gal./A).
Artichoke, Jerusalem Beet, Garden Beet, Sugar Burdock, Edible	Silverleaf Whitefly Sweetpotato Whitefly		HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.
Canna, Edible Carrot Cassava, (bitter and sweet) Celeriac Chaoyote (root)			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).
Chervil, Turnip-rooted Chicory Chufa			Under severe pressure, use the higher specified rates.
Dasheen (taro) Ginger Ginseng Horseradish Leren Parsley, Turnip-rooted Parsnip Potato Radish Radish, Oriental			Only whole fields should be treated.
Rutabaga Salsify Salsify, Black Salsify, Spanish Skirret Sweet Potato Tanier Turmeric Turnip Yam, Bean Yam, True			
<ul> <li>Restrictions:</li> <li>Do not apply within 7 data</li> </ul>	avs of harvest		

- Do not apply within 7 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 5 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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.

**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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. LIBERTY CROP PRODUCTION, LLC 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)

(Subgroup 13-07E)

[Not For Use in] [New York]

LIBERTY PYRIPROXYFEN 35 WSB acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. LIBERTY PYRIPROXYFEN 35 WSB has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since LIBERTY PYRIPROXYFEN 35 WSB 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	APPLICATION INSTRUCTIONS
Berry, Schisandra* Gooseberry* Grape, Amur River* Kiwifruit, Fuzzy Kiwifruit, Hardy Maypop* Cultivars, varieties and/or hybrids of these	Scales Whiteflies	5 oz.	Apply with ground or air equipment as a full coverage spray (minimum of 5 gal./A by air or 50 gal./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
<sup>*</sup> Not for use in CA			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.

LIBERTY PYRIPROXYFEN 35 WSB may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

#### **Restrictions:**

- Do not apply within 30 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 10 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB 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)

LIBERTY PYRIPROXYFEN 35 WSB acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. LIBERTY PYRIPROXYFEN 35 WSB has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since LIBERTY PYRIPROXYFEN 35 WSB 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	APPLICATION INSTRUCTIONS
Apricot Cherry Chickasaw Plum Damson Plum Fresh Prune Japanese Plum	Lecanium Scales San Jose Scale	4 to 5 oz.	Apply in 100 to 400 gal./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.
Nectarine Peach Plum Plumcot Prune	Suppression of: Peach Twig Borer Oriental Fruit Moth		<b>Scales:</b> 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 LIBERTY PYRIPROXYFEN 35 WSB.
			<b>Peach Twig Borer:</b> LIBERTY PYRIPROXYFEN 35 WSB 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 LIBERTY PYRIPROXYFEN 35 WSB may not protect fruit from blemishes by scale.

LIBERTY PYRIPROXYFEN 35 WSB may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management IPM and Insect Resistance Management (IRM) programs.

## **Restrictions:**

- Do not apply within 14 days of harvest.
- Do not make more than 3 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 15 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than three applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB 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.

# STRAWBERRY

#### [Not For Use in New York]

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

LIBERTY PYRIPROXYFEN 35 WSB does exhibit translaminar movement which means that LIBERTY PYRIPROXYFEN 35 WSB 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 whiteflies since one of the major obstacles is getting the product to the underside of the leaves where whiteflies are present.

PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Bandedwinged Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	3 oz.	Apply with ground equipment as a full coverage spray (100 to 400 gal./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 specified rates.
		Only whole fields should be treated.

#### **Restrictions:**

- Do not apply within 2 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 6 oz. LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 30 days after last LIBERTY PYRIPROXYFEN 35 WSB 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. 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. LIBERTY CROP PRODUCTION, LLC 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.

# TREE NUTS

### (Crop Group 14)

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

Almond	Black Scale San Jose Scale Suppression of: Peach Twig Borer	4 to 5 oz.	Apply with ground equipment in 100 to 400 gal./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.
Restrictions:			LIBERTY PYRIPROXYFEN 35 WSB has provided good suppression of Peach Twig Borer when applied delayed dormant through bloom sprays.

- Do not apply within 21 days of harvest.
- Do not make more than 1 LIBERTY PYRIPROXYFEN 35 WSB application per growing season.
- Do not exceed 5 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Regardless of formulation, do not apply more than 0.109 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no one application per growing season. LIBERTY PYRIPROXYFEN 35 WSB 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.

#### TREE NUTS (Crop Group 14) - continued

Codling Moth Dusky-veined uphid Valnut Aphid	5 oz.	Apply with ground equipment in 100 to 400 gal./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.
		1 <sup>st</sup> 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 LIBERTY PYRIPROXYFEN 35 WSB. Follow local recommendations regarding in-season use and rates of oil in your area.
Black Scale Brown Soft Scale calian Pear Scale ecanium Scales San Jose Scale Valnut Scale Suppression of:	4 to 5 oz.	Apply with ground equipment in 100 to 400 gal./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.
Peach Twig Borer		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.
	rown Soft Scale alian Pear Scale ecanium Scales an Jose Scale alnut Scale uppression of: Peach Twig	rown Soft Scale alian Pear Scale ecanium Scales an Jose Scale falnut Scale uppression of: Peach Twig prer

LIBERTY PYRIPROXYFEN 35 WSB may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

#### **Restrictions:**

- Do not apply within 21 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 10 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB 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.

# **TROPICAL & SUBTROPICAL FRUIT**

LIBERTY PYRIPROXYFEN 35 WSB acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. LIBERTY PYRIPROXYFEN 35 WSB has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since LIBERTY PYRIPROXYFEN 35 WSB 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	APPLICATION INSTRUCTIONS
Acerola Atemoya Avocado Biriba Black Sapote Canistel Cherimoya	Scales	5 oz.	Apply with ground or air equipment as a full coverage spray (minimum of 5 gal./A by air or 50 gal./A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.
Cherimoya Custard Apple Feijoa Guava Ilama Jaboticaba Longan Lychee Mamey Sapote Mango Passionfruit Papaya Pulasan Rambutan Sapodilla Soursop Spanish Lime Star Apple			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.
Starfruit Sugar Apple Wax Jambu			for alternated with commonly used insecticides

LIBERTY PYRIPROXYFEN 35 WSB may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

## **Restrictions:**

- Do not apply within 14 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 10 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB 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

# [Not For Use in] [California] [New York]

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

LIBERTY PYRIPROXYFEN 35 WSB does exhibit translaminar movement which means that LIBERTY PYRIPROXYFEN 35 WSB 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 whiteflies since one of the major obstacles is getting the product to the underside of the leaves where whiteflies are present.

PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Sharpshooters Whiteflies	2.5 to 3 oz.	Apply with ground equipment as a full coverage spray (10 to 50 gal./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 specified rates.
		Only whole fields should be treated.

LIBERTY PYRIPROXYFEN 35 WSB may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

#### **Restrictions:**

- Do not apply within 7 days of harvest.
- Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.
- Do not exceed 6 oz. LIBERTY PYRIPROXYFEN 35 WSB per acre per season.
- Do not apply earlier than 14 days after last LIBERTY PYRIPROXYFEN 35 WSB 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.

**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, LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. LIBERTY CROP PRODUCTION, LLC 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.

# WHITE SAPOTE

## [Not For Use in New York]

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

PESTS	PRODUCT RATE PER ACRE	APPLICATION INSTRUCTIONS
Black Scale Brown Soft Scale California Red Scale Florida Red Scale Snow Scale	5 oz.	Apply with ground equipment in 200 to 1500 gal./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 any time prior to fruit becoming infested when scale is in the crawler stage. Application at the 2 <sup>nd</sup> or 3 <sup>rd</sup> generation of scale may result in excessive dead scale remaining on the fruit at harvest. Thorough coverage is essential for good control.
		LIBERTY PYRIPROXYFEN 35 WSB may be applied with superior spray oils at ½ to 1%. Follow the manufacturer's directions and recommendations on timing and rates.

LIBERTY PYRIPROXYFEN 35 WSB may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

#### **Restrictions:**

• Do not apply within 1 day of harvest.

• Do not make more than 1 LIBERTY PYRIPROXYFEN 35 WSB application per growing season.

• Do not exceed 5 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.

• Regardless of formulation do not apply more than 0.134 lb. pyriproxyfen per acre per season.

• For scale apply only one application during emergence of scale crawlers per calendar year.

Citrus Blackfly Citrus Leafminer Citrus Whitefly	fminer	Apply with ground application equipment in 200 to 1500 gal./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.

LIBERTY PYRIPROXYFEN 35 WSB may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

## **Restrictions:**

• Do not apply within 1 day of harvest.

• Do not make more than 2 LIBERTY PYRIPROXYFEN 35 WSB applications per growing season.

• Do not exceed 6 oz. of LIBERTY PYRIPROXYFEN 35 WSB per acre per season.

• Do not apply earlier than 21 days after last LIBERTY PYRIPROXYFEN 35 WSB treatment.

• Regardless of formulation, do not apply more than 0.134 lb. of 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,

LIBERTY CROP PRODUCTION, LLC is restricting LIBERTY PYRIPROXYFEN 35 WSB to no more than two applications per growing season. LIBERTY PYRIPROXYFEN 35 WSB 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.

# 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.

#### **PESTICIDE DISPOSAL**

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

#### **CONTAINER HANDLING**

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 other procedures allowed by State and local authorities.

#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of LIBERTY CROP PROTECTION LLC or Seller. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW all such risks shall be assumed by Buyer and User and Buyer and User agree to hold LIBERTY CROP PROTECTION LLC and Seller harmless for any claims relating to such factors.

LIBERTY CROP PROTECTION LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or LIBERTY CROP PROTECTION LLC, and TO THE EXTENT CONSISTENT WITH APPLICABLE LAW Buyer and User assume the risk of any such use. To the extent consistent with applicable law LIBERTY CROP PROTECTION LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, neither LIBERTY CROP PROTECTION LLC nor Seller shall be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF LIBERTY CROP PROTECTION LLC AND 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 THE PRODUCT OR, AT THE ELECTION OF LIBERTY CROP PROTECTION, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

LIBERTY CROP PROTECTION LLC and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of Sale and Limitation of Warranty and Liability which may not be modified except by written agreement signed by a duly authorized representative of LIBERTY CROP PROTECTION LLC.