#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

22

OCT 1 2008

Christopher Davis FMC Corporation Agricultural Products Group 1735 Market Street Philadelphia Pennsylvania 19103

Dear Mr. Davis:

Subject:

Updated Spray Drift Language for Pyrethroid

Agricultural Use Product as per EPA letter dated February 21,

2008

The Agency is in receipt of your Applications for Pesticide Notification dated August 27, 2008 for the following products:

Capture LFR Insecticide, EPA Reg. No. 279-3302 Capture 8% ME Insecticide/Miticide, EPA Reg. No. 279-3312

Registration Division (RD) has conducted a review of this request for it applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The labels submitted with the applications has been stamped "Notification" and will be placed in our records.

Note under Buffer Zones: note "streams" should read "permanent streams and "ponds" to read "natural ponds". Also, correct spelling of "greated" to "greater" under aerial applications.

Sincerely,

George T. LaRocca Product Manager 13 Insecticide Branch

Registration Division (7505P)

<b>\$EPA</b>	Environment Was	United States al Protection hington, DC 2046	•		✓	Registration Amendme Other		OPP Identifier Number
		Application	for Pestic	ide - Sec	tion	<u> </u>		
1. Company/Product Nu 279-3312	mber		2. EPA LaRo	Product Man	ager		3. Pro	Proposed Classification  None Restricted
. Company/Product (Na Capture 8% ME Ins			PM# 13					
FMC Corporation 1735 Market Stree Philadelphia, PA 1		Code)	(b)(i), to: EPA		is sim		in cor	FIFRA Section 3(c)(3) mposition and labeling FION:
	· · · · · · · · · · · · · · · · · · ·	·····	Section -	11				
Notification - Exp  Explanation: Use add  -Add spray drift languag  Certification Statement:	response to Agency letters of February made on the label a	ery. (For section l ruary 21, 2008			Applica	ation. Blow.		
			Section -	III				<del></del>
1. Material This Product	Will Be Packaged In:							
Child-Resistent Packagir Yes No * Certification mus be submitted	Yes No	No. per pt. container	Water Soluble Yes No If "Yes" Package wgt	No. per containe	r	P	fetal fastic ilass aper	pecify)
3. Location of Net Conte	nts Information  Container	4. Size(s) Retai	l Container		5. Lo	cation of Label (	Directio	ns
5. Manner in Which Lab	el is Affixed to Product	Lithogra Paper gl Stencile	ph ued d	Othe	r			
			Section -	IV				
. Contact Point <i>(Comp</i>	lete items directly below	for identification	of individual to	be contacted,	if nec	essary, to proce	ss this	application.)
<del>lame</del> Christopher Davis		<u> </u>	itle Registration Ma	nager		J .	lephone 5-299-6	No. (lintilude Area Code)
	tatements I have made of		ll attachments t					6. Dota Application Received

3. Title

5. Date

Registration Manager

8/27/08

EPA Form 8570-1 (Rev. 3-94) Previous editions are obsolete.

2. Signature

4. Typed Name

4. Typed Name Christopher Davis

White - EPA File Copy (original)

Yellow - Applicant Copy

#### **FMC Corporation**

Agricultural Products Group 1735 Market Street Philadelphia Pennsylvania 19103 215 299 6000

August 27, 2008



Mr. George LaRocca, PM-13 United States Environmental Protection Agency Document Processing Desk (AMEND)(E-SUB) Office of Pesticide Programs (H7504P) Room S-4900, One Potomac Yard 2777 South Crystal Drive Arlington, VA 22202

Dear Mr. LaRocca:

Subject: Capture<sup>®</sup> 8% ME Insecticide/Miticide, EPA Reg. No. 279-3312 Amendment to Label- Updated Spray Drift Language

FMC is amending the label for the subject product as required under the Agency's letter of February 21, 2008: Updated Spray Drift Language for Pyrethroid Agricultural Use Products.

To support this submission and to process this request, enclosed please find the following:

- Completed Application for Pesticide (EPA Form 8570-1) form
- Two copies of the draft labeling, including one with the change hi-lited
- Completed Certification with Respect to Label Integrity form
- A Compact Disk containing the label as amended

Since this amendment is Agency initiated, it is not covered under the EPA's Fee for Service categories for label amendments, and there is no fee required.

FMC trusts that this information is sufficient for the Agency to process this submission. If the Agency has any questions concerning this matter, please feel free to contact me at (215) 299-6334.

Sincerely,

Christopher Davis Registration Manager, FMC Corporation

#### RESTRICTED USE PESTICIDE

Toxic to fish and aquatic organisms. For retail sale to and use only by certified applicators, or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

# **CAPTURE 8%ME**

#### NOTIFICATION

## Insecticide/Miticide

OCT 1 2008

**Active Ingredient:** 

EPA Reg. No. 279-3312

EPA Est. No. 27

Bifenthrin: (2 methyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-cyclopropanecarboxylate\* ......

\*\*Cis isomers 97% minimum, trans isomers 3% maximum. U.S. Patent No. 4,238,505

This product contains 2/3 pound active ingredient per gallon.

#### KEEP OUT OF REACH OF CHILDREN **CAUTION**

This label must be in the possession of the user at the time of application. Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

For Information Regarding the Use of this Product Call 1-800-321-1FMC (1362).

	FIRST AID
lf	Call poison control center or doctor immediately for treatment advice.
swallowed	Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor.
	Do not give anything by mouth to an unconscious person.
If inhaled	Move person to fresh air.
	If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
	Call a poison control center or doctor for further treatment advice
lf on skin or	•Take off contaminated clothing.
clothing	Rinse skin immediately with plenty of water for 15-20 minutes.
	Call a poison control center or doctor for treatment advice.
If in eyes	Hold eye open and rinse slowly and gently with water for 15-20 minutes.
-	Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
	Call a poison control center or doctor for treatment advice.
HOTLINE NU	IMBER
Have the pro	duct container or label with you when calling a poison control center or doctor, or going for
treatment. Yo	ou may also contact 1-(800)-331-3148 for Emergency Assistance.
NOTE TO PH	IYSICIAN
	is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be reatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase

**FMC Corporation Agricultural Products Group** Philadelphia, PA 19103

absorption and so should be avoided.

**Net Contents:** 

PRECAUTIONARY STATEMENTS
Hazards to Humans (and Domestic Animals)
CAUTION

Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash before reuse.

All pesticide handlers (mixers, loaders and applicators) must wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves. After the product is diluted in accordance with label directions for use, and/or when mixing and loading using a closed spray tank transfer system (such as U-Turn®), or an in-line injector system, shirt, pants, socks, shoes and waterproof gloves are sufficient.

### **User Safety Recommendations**

Users should:

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

#### **Environmental Hazards**

This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

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

The use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Do not apply this product through any type of irrigation system.

**Resistance.** Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls, Water-proof gloves, and Shoes plus socks.

#### STORAGE AND DISPOSAL

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

Pesticide Storage: Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use replace lids and close tightly. Do not put concentrate or dilute material into food or drink container.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call FMC: (800) 331-3148.

To Confine Spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents. Pesticide Disposal: Pesticide wastes are toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for auidance.

#### **Container Disposal**

Metal or Plastic Container: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

U-Turn® Container: Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

For water soluble bags when all bags are used, the outer package should be clean and may be disposed of in a sanitary landfill, by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. If the outer container contacts formulated product in any way, it must be triple rinsed with clean water. Add rinsate to the spray tank and dispose of the outer package as described above.

#### General Instructions

Unless directed by registered supplemental labeling, follow the Directions for Use in each crop group section.

#### WATER SOLUBLE BAGS

The product in this package is a microemulsion formulation of the insecticide bifenthrin packaged in a translucent water soluble bag. Do not allow the inner bag to become wet before adding it to the spray or nurse tank. Do not handle the inner bag with wet hands or wet gloves. Rough handling may cause breakage. Do not store at temperatures below 32°F (0°C). Allow to warm above 50°F (10°C) before use. Cooler water temperatures increase the time needed for the inner bag to dissolve completely.

The insecticide needs to be diluted with water prior to spray application. Do not use nozzle screens (e.g., strainers) greater than 50 mesh size. Determine the number of water-soluble bag(s) to make up necessary spray suspension.

Calculate the number of bags needed for the recommended rate and number of acres to be treated by using the following equation:

Recommended

# Acres to be

Rate for Pest

Treated with

(Active/Acre)

Tankload #

0.04 (amt. ai in each bag)

= Water Soluble Bags to use for acres to be treated.

Do not break bags. When the equation results in less than a whole number of bags, use the next higher whole number of bags.

Fill the spray tank 1/2 full with water. Open the outer wrapper of this product and immediately dump required contents into the spray tank. Allow the water-soluble bag(s) to dissolve completely. Start agitation in the tank. Air agitation is not recommended. Mix thoroughly to fully disperse and suspend the wettable powder. Fill the spray tank with the required amount of water. Maintain agitation during storage in nurse or supply tank and during application.

Mix as needed; do not store diluted material.

#### **Rotational Crops**

Crops for which bifenthrin tolerances exist may be rotated at any time. All other crops may be rotated 30 days following the final application of bifenthrin.

#### **Tank-Mixture**

Capture 8% ME may be applied in tank mixtures with other products approved for use on registered crops. Observe all restrictions and precautions which appear on the labels of these products. Test for compatibility of products before mixing using a standard jar test or other similar method.

#### **Application Instructions**

Rate of application is variable according to pest pressure, timing of sprays, and field scouting. Use lower rates under light to moderate infestations; higher rates under heavy insect pressure and for mite control. Arid climates generally require higher rates.

In New York State this product may not be applied within 100 feet (using ground equipment) to 300 feet (using aerial equipment) of coastal marshes or streams that drain into coastal marshes.

Cultivation within 10 feet of a water body is prohibited to allow for the growth of a vegetated filter strip.

#### **BUFFER ZONES**

#### **Vegetative Buffer Zones**

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds). Only apply products containing zeta-cypermethrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21pp. <a href="http://www.in.nrcs.usda.gov/technical/agronomy/">http://www.in.nrcs.usda.gov/technical/agronomy/</a> newconbuf.pdf.

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast) – Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

Buffer Zone for ULV Aerial Application - Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds). Buffer Zone for Non-ULV Aerial Application – Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

#### **Spray Drift Requirements**

#### Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition. Do not apply when the wind velocity exceeds 15 mph.

#### Temperature Inversion

Do not make aerial or ground applications into temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

#### **Droplet Size**

Use only Medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

#### **Additional Requirements for Ground Applications**

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy. **Additional Requirements for Aerial Applications** 

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

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Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greated height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

#### **Spray Drift Precautions**

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

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

Do not apply by ground equipment within 25 feet, or by air within 150 feet of lakes; reservoirs, rivers, permanent streams, marshes or natural pends, estuaries, and commercial fish farm pend. Increase the buffer zone to 450 feet when ultra low volume (ULV) application is made in cetten. Use of ultra low volume (ULV) application on corn is prohibited.

For aerial applications, the spray beam should be mounted on the aircraft so as to minimize drift caused by wingtip or rotor vertices. The minimum practical beam length should be used and must not exceed 75% of wingspan or rotor diameter.

Use the largest droplet size consistent with good pest control. Formation of very small droplets may be minimized by appropriate nezzle selection, by orienting nezzles away from the air stream as much as possible, and by avoiding excessive spray beem pressure.

Spray should be released at the lowest height consistent with post control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

Make aerial or ground applications when the wind velocity favors on target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph.

Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

Do not cultivate within 10 feet of the aquatic area so as to allow growth of a vegetative filter strip.

Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.

Do not make aerial or ground applications during temperature inversions. Do not make aerial or ground applications to com if heavy rainfall is imminent. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smeke and observing a smoke layer near the ground surface.

#### **Artichoke**

Pest	Dosage* oz/A (lb ai/A)	Directions
Cribrate Weevil Artichoke Plume Moth	20.0 (0.10)	Apply when pest population reaches damaging threshold and repeat as necessary to maintain control, but not more often than 15-day intervals.  Do not exceed 20 ounces or 2.5 bags (0.10 lb ai) per acre between bud formation and harvest of an individual fruit.
		Application by ground: Apply a full cover spray in a minimum of 75 gallons of finished spray per acre.

Application by air: Apply specified dosage in a minimum of 10 gallons per acre.
Do not exceed 100 ounces or 12.5 bags (0.5 lb ai) per acre per season.
A 5-day preharvest interval must be observed.
•

<sup>\*1</sup> bag = 0.04 lb ai

# Hops

	Dosage*	
Pest	oz/A (lb ai/A)	Directions
Aphids	12.0 to 20.0	Do not exceed 20 ounces or 2.5 bags (0.1 lb ai) per
Armyworms	(0.06 to 0.1)	acre per application.
Cutworms		
Leafrollers		Do not exceed 60 ounces ot 7.5 bags (0.3 lb ai) per
Loopers		acre per season.
Root Weevils	10.0 to 20.0	A spray interval of 21 days between applications must
	(0.05 to 0.1)	be maintained.
Twospotted spider mite	20.0	Do not apply within 14 days of harvest
•	(0.10)	
	' '	Application by ground: For best results, full
		coverage is essential. Early season recommend 100-
		150 gallons of spray per acre. Late season
		recommend 200-250 gallons of spray per acre.
		For Root Weevil control, make a directed spray to the
		base of the plant. Spray up the vine 3 feet and the soil
	•	surface 1.5 to 2 feet on either side of the plant.
		Application by air for late season control of
		twospotted spider mites: Apply no less than 20 oz.
	\ .	(0.1 lb ai) per application in a minimum of 10 gallons
		per acre.
		Use of ultra low volune (ULV) application on hops is
		prohibited.

<sup>\*1</sup> bag = 0.04 lb ai

# **Strawberries**

Pest	Dosage* oz/A (lb ai/A)	Directions
Aphids Armyworms Fleabeetles Heliothis spp. Leafrollers Lygus spp. Plant Bugs Spittlebugs Stink Bugs Strawberry Clipper	8.0 to 40.0 (0.04 to 0.2)	Apply when pest populations reach damaging thresholds and repeat as necessary at 7-14 day intervals.  Do not apply more than 100 ounces or 12.5 bags (0.5 lb ai ) per acre per season.  No preharvest interval is required.
Strawberry Sap Beetle		Application by ground: Apply a full
Strawberry Root Weevil Black Vine Weevil	10.0 to 40.0 (0.05 to 0.2)	cover spray in a minimum of 50 gallons of finished spray per acre.
Spider mites	20.0 to 40.0 (0.1 to 0.2)	Application by air (Aerial application is prohibited in Florida): Apply specified dosage in a minimum of 5 gallons per acre.

<sup>\*1</sup> bag = 0.04 lb ai

CALIFORNIA SPECIFIC REQUIREMENTS FOR STRAWBERRY HARVESTERS: Harvesters and other personnel performing tasks with all-day foliage contact in treated fields within five (5) days of application must wear a long-sleeved shirt, long pants, and shoes plus socks.

Following treatment of strawberry fields at rates of Capture 8% ME greater than 0.1 lb ai/acre, harvesters must wear gloves for five (5) days following application.

#### **Caneberries**

		Dosage*	
Crop	Pest	oz./A (lb. ai/A)	Directions
Caneberries Including: Blackberries Bingleberries Dewberries	Leafrollers Orange Tortrix Root Weevils Black Vine Weevil	10.0 to 20.0 (0.05 to 0.1)	Apply by air or ground equipment using sufficient water to obtain full coverage of foliage. (Minimum of 10 gallons per acre by air and 50 gallons per acre by ground).
Lowberries Marionberries Olallieberries Youngberries Loganberries Raspberries	Twospotted Spider Mite Carmine Mite Raspberry Crown Borer	20.0 (0.1)	One application may be made pre-bloom and a second application may be made post bloom.  For Crown Borer, apply 20 ounces or 2.5 bags (0.1 lb ai) per acre, post-harvest (fall) or
			pre-bloom (spring), as a drench application directed at the crown of plants in a minimum of 200 gallons water / acre. Greater efficacy is observed at higher water gallonages (up to 400 gallons/a) or in an application prior to a significant rainfall event. Do not make both pre-bloom foliar and pre-bloom drench applications.
			Do not exceed 40 oz (0.2 lb ai) per acre per season.
			Do not apply within 3 days of harvest.

<sup>\*1</sup> bag = 0.04 lb ai

#### Pears

Pest	Dosage*	Directions
	oz/A (lb./ai/A)	•
Aphids		Application by ground: Apply as a dilute
Codling Moth	8.0 to 40.0	(minimum of 200 gallons of finished spray per
Cutworms	(0.04 to 0.2)	acre) or concentrate (minimum of 50 gallons of
Green Fruitworm		finished spray per acre) spray in sufficient
Leafhoppers		water to provide thorough coverage.
Leafminers		
Leafrollers	Į	Application by air:
Lygus spp.		Apply the specified dosage in a minimum of 10
Plant Bugs	,	gallons per acre by air.
Plum Curculio	<u> </u>	
San Jose Scale (Crawlers)		Do not apply more than 100 ounces or 12.5
Stink Bugs		bags (0.5 pound active) per acre per season
Tarnished Plant Bugs		with no more than 0.45 pound active per acre
Twospotted Spider Mite	12.0 to 40.0	applied after petal fall.
Yellow Mite	(0.06 to 0.2)	
European Red Mite		Apply as necessary to maintain control using a
European Reu Mite		minimum of 30 day spray interval.
•	4004 400	
	16.0 to 40.0	Apply up to 14 days prior to harvest.
	(0.08 to 0.2)	
		Do not graze livestock in treated orchards or
		cut treated cover crops for feed.

<sup>\*1</sup> bag = 0.04 lb ai

120

Tree Nut Crops: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan Walnut (black and English)

Pest	Dosage* oz/A (lb./ai/A)	Directions
Black Pecan Aphid Codling Moth Filbert Worm Hickory Shuckworm Leaffooted Bugs Navel Orangeworm Oblique banded Leafroller Peach Twig Borer Pecan Leaf Casebearer Pecan Nut Casebearer Pecan Phylloxera Plant Bugs Stink Bugs Walnut Aphid Yellow Pecan Aphid	10.0 to 40.0 (0.05 to 0.20)	Application by ground: Apply as a dilute (minimum of 200 gallons of finished spray per acre) or concentrate (minimum of 50 gallons of finished spray per acre) spray in sufficient water to provide thorough coverage.  Application by air: Apply the specified doseage in a minimum of 10 gallons of finished spray per acre.  Minimum Spray Intervals: Apply as needed to maintain control, but do not apply at intervals sooner than 15 days.  Observe a 21 day Pre Harvest Interval (phi) for Pecans and a 7 day Pre Harvest Interval (phi) for all other registered tree nut crops.
European Red Mite Spider Mites	16.0 to 40.0 (0.08 to 0.20)	Do not exceed 40 ounces or 5 bags (0.2 lb ai) per acre per application; do not exceed 100 oz or 12.5 bags (0.50 lb ai) per
Fire Ants Walnut Husk Fly	20.0 to 40.0 (0.1 to 0.2)	acre per season.  Do not graze livestock in treated orchards or cut treated cover crops for feed.

<sup>\*1</sup> bag = 0.04 lb ai

Citrus (1 day phi)

Pest	Dosage* oz/A (lb./ai/A)	Directions
Diaprepes Root Weevil (Diaprepes abbreviatus) Southern Blue Green Citrus Root Weevil (Pachnaeus litus) Blue Green Citrus Root Weevil (Pachnaeus opalus) Brown Leaf Notcher (Epicaerus mexicanus) Little Leaf Notcher	50.0 to 100.0 (0.25 - 0.50)	Apply Capture 8% ME by ground equipment to bare soil beneath citrus trees. Capture 8% ME must be uniformly applied from the trunk to the drip line of tree; apply in a minimum of 40 gallons of dilute spray per acre. Greater spray volume should insure greater uniformity of coverage. A pre- and post-application irrigation may aid in the uniformity of coverage as well.  Capture 8% ME protects citrus tree roots from Diaprepes and other citrus root weevil feeding by forming a barrier which provides contact activity on newly hatched larvae (neonates). As citrus root weevil eggs hatch in new foliage, neonates fall to the soil surface beneath the tree and come in contact with Capture 8% ME as they attempt to burrow into the root zone. Disturbance of the soil beneath trees should be minimized.
(Artipus floridanus)		Timing of Capture 8% ME applications is critical. Current information suggests that peak emergence of adult Diaprepes Weevil varies by

20.0 to 50.0 Fireant (Solenopsis citrus growing region and these emergence peaks can be dramatically (0.1 to 0.25) affected by environmental factors, such as soil moisture. Typically, two Asian Cockroach peaks are observed for Diaprepes, first in spring then late summer or (Blattélla asahinae) early fall. Southern Blue-Green and Blue-Green Citrus Weevils and Fuller Rose Beetle typically exhibit a single emergence peak in the spring. Brown and Little Leaf Notchers typically exhibit three emergence peaks, spring, summer and fall. Since emergence varies seasonally and by location, timing of Capture 8% ME application can be accurately forecast by observing adults. Adults are most active early morning and late afternoon; numbers can be estimated by trapping throughout spring and summer (emergence periods). Egg laying will occur for 8 to 10 weeks following adult emergence from the soil; larval invasion of the soil will begin 2-3 weeks following adult emergence. It is critical to have the Capture 8% ME soil barrier in place prior to drop of the neonates. Capture 8% ME is one of several effective tools in an integrated pest management program for Citrus Root Weevils. Application of Capture 8% ME should be used in conjunction with good cultural practices, biological control of larvae and foliar control of adults. Consult local university extension personnel for current information to protect citrus trees from Citrus Root Weevils and other pests. Additional Instructions: Apply to individual citrus resets, when not in solid planted rows, using handgun or shielded sprayer. Peak emergence of Diaprepes root weevil generally occurs in the spring. Depending on weather conditions, a minor emergence of Diaprepes root weevil may also occur in the fall. If the citrus grove to be treated is in an area where weather conditions are conducive to primary emergence occurring in the spring, 100 ounces or 12.5 bags (0.50 pound active) should be used to obtain the longest residual management of Diaprepes root weevil. If the citrus grove to be treated is in an area where weather conditions will promote more than one peak of pest emergence, 50 ounces or 6.25

bags (0.25 pound active) can be applied early season and 0.25 pound

active can be applied later in the season.

Do not apply through irrigation systems.

Do not allow any application of Capture 8% ME to contact fruit or foliage.

Do not apply more than a total of 100 ounces or 12.5 bags (0.5 lb. a.i.) per acre per year.

Apply the specified dosage in a minimum of 40 gallons of finished spray per acre.

Ground application only. Do not apply by air.

\*1 bag = 0.04 lb ai

## Cotton

Pest	Dosage* oz./A (lb. ai/A)	Directions
European Corn Borer	4.0 to 20.0	Capture 8% ME may be applied in water.
Soybean (Banded) Thrips	(0.02-0. 10)	
Tobacco Thrips		Apply in a minimum of 10 gallons per acre with
Boll Weevil		ground equipment or 2 gallons per acre by
Bollworm	8.0 to 20.0	aircraft.
Cabbage Looper	(0.04-0.10)	
Cotton Aphid		To Control Boll Weevil: Apply Capture 8%
Cotton Fleahopper		ME at an interval of 3 to 4 days until pest
Cotton Leafperforator	•	numbers are reduced to acceptable levels.
Cutworms		
Fall Armyworm		To Control Mites and Aphids: Apply when
Plant Bugs		pests first appear. Repeat as necessary to
Saltmarsh Caterpillar		maintain control. Higher rates will be required
Southern Garden		once a damaging threshold is established.
Leafhopper		
Stink Bugs	•	Do not apply more than 100 ounces or 12.5
Tobacco Budworm		bags (0.5 pound active) per acre per season.
Yellow Striped Armyworm		
Beet Armyworm		Do not apply within 14 days of harvest.
Carmine Spider Mite	12.0 to 20.0	
Lygus Spp.	(0.06-0.10)	Do not graze livestock in treated areas or cut
Pink Bollworm		treated crops for feed.
Twospotted Spider Mite		
Whitefly		Do not make more than 10 synthetic pyrethroid
		applications (of one product or combination of
•		products) to a cotton crop in one growing
İ		season. Synthetic pyrethroid products include
		Ambush®, Ammo®, Asana® XL, Baythroid®,
1		Capture®, Danitol®, Karate®, Mustang®, and
·		Scout X-TRA®.
		1

<sup>\*1</sup> bag = 0.04 lb ai

#### SUCCULENT PEAS AND BEANS

Crop	Pest	Dosage* oz/A (lb ai/A)	Directions
Pea (Pisum Species): Dwarf pea, Edible-pod pea, English pea, Garden pea, Green pea,	Flea Beetle Grasshoppers Aster Leafhopper Leafhoppers Aphids	5.0 to 20.0 (0.025-0.10)	Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment.
Snow pea, Sugar snap pea Pigeon pea Bean (Phaseolus Species): Broadbean (succulent) Lima bean (green) Runner bean, Snap bean, Wax bean Bean (Vigna Species): Asparagus bean, Blackeyed pea Chinese longbean, Cowpea, Moth bean, Southern pea Yardlong bean Jackbean Soybean (immature seed) Sword bean	Beet Armyworm Fall Armyworm Southern Armyworm Yellowstriped Armyworm Bean Leaf Beetle Cucumber Beetles Japanese beetle Adult Sap Beetle Plant Bug Stink Bugs Tarnished Plant Bug Alfalfa Caterpillar Cloverworm European Corn Borer Cutworms Western Bean Cutworm Corn Earworm Loopers Corn Rootworm Adult Thrips Pea Weevil Pea Leaf Weevil	(0.033-0.10)	Thorough coverage is essential to achieve control.  Do not apply more than 40 ounces or 5 bags (0.2 lb. active ingredient) per acre per season.  Do not apply within 3 days of harvest.  For wireworm, maggot or grubs, apply in-furrow with the seed or transplant
	Wireworm Maggot Grubs	10.0 to 20.0 (0.05-0.10)	
	Banks Grass Mite Twospotted Spider Mite Carmine Mite Lygus Species Whitefly	16.0 to 20.0 (0.08-0.10)	

<sup>\*1</sup> bag = 0.04 lb ai

## **BRASSICAS**

0	Doot	Dosage*	Discotions
Crop	Pest	oz/A (lb ai/A)	Directions
Head and Stem	Cutworms	6.6 to 20.0	Apply in a minimum of 5
Brassica Vegetables	Corn Earworm	(0.033-0.10)	gallons of finished spray per
_including:	Tobacco Budworm		acre by air or in a minimum
Broccoli	Saltmarsh Caterpillar		of 10 gallons per acre with
Chinese Broccoli (gailon,	Leafhoppers		ground equipment.
white flowering broccoli)	Flea Beetles		
Brussels Sprouts	Imported Cabbageworm		Thorough coverage is
Cauliflower	Cucumber Beetles	'	essential to achieve control.
Cavalo broccolo Kohlrabi	Aphids	·	Do not apply more than 100
Cabbage	Armyworms Loopers		Do not apply more than 100 ounces or 12.5 bags (0.5 lb.
Chinese Cabbage (napa)	Stink Bugs		active ingredient) per acre
Chinese Mustard Cabbage	Crickets		per season.
(gai choy)	Ground Beetles		per season.
(gar arioy)	Thrips	·	Do not make more than 5
	Wireworm (adults)	·	applications after bloom.
	Diamondback Moth		
			Do not make applications
	Wireworm	10.0 to 20.0	less than 7 days apart.
	Maggot	(0.05-0.10)	
	Grubs	,	Do not apply within 7 days
	Banks Grass Mite	16.0 to 20.0	of harvest.
	Twospotted Spider Mite	(0.08-0.10)	
· ·	Carmine Mite	(5.55 6.16)	For wireworm, maggot or
	Pacific Spider Mite		grubs, apply in-furrow with
	Lygus Species		the seed or transplant
1	Whitefly		.

<sup>\*1</sup> bag = 0.04 lb ai

# CANOLA, CRAMBE, RAPESEED

		Dosage*	
Crop	Pest	oz./A (lb. ai/A)	Directions
Canola	Aphids	6.6 to 8.0	Apply in a minimum of 2
Crambe	Cutworms	(0.033 - 0.04)	gallons of finished spray per
Rapeseed	Diamondback Moth		acre by air or in a minimum
	Loopers		of 10 gallons per acre with
	Other Lepidopterous Larvae		ground equipment.
	Flea Beetle		
	Flea Hopper	•	Thorough coverage is
	Grasshopper		essential to achieve control.
	Plant Bug		
	Stink Bugs		Do not apply more than 16
	Seedpod Weevil		oz or 2 bags (0.08 lb active
	Thrips		ingredient) per acre per
	Armyworms		season.
	٠		D
			Do not make applications
			less than 14 days apart.
1			Do not apply within 25 days
			Do not apply within 35 days of harvest.
		Ļ	T OI Haivest.

<sup>\*1</sup> bag = 0.04 lb ai

### **CUCURBITS**

		Dosage*	
Crop	Pest	oz./A (lb. ai/A)	Directions
Chayote (fruit)	Aphids	10.0 to 20.0	Apply in a minimum of 5
Chinese waxgourd	Cutworms	(0.05 – 0.10)	gallons of finished spray pe
(Chinese preserving	Cabbage Looper		acre by air or in a minimum
melon)	Leafhoppers		of 20 gallons per acre with
Citron melon	Cucumber Beetles		ground equipment.
Cucumber	Squash Bugs	+	
Gherkin	Melonworm	•	Thorough coverage is
Gourd, edible (includes	Pickleworm		essential to achieve control
hyotan, cucuzza)	Plant Bug		
(Luffa spp.) (includes	Stink Bugs		Do not apply more than 60
hechima,	Rindworm	,	oz or 7.5 bags (0.3 lb.
Chinese okra)	Squash Vine Borer	1	active ingredient) per acre
(Momordica spp.)	Armyworms		per season.
(includes balsam apple,	Corn Earworm	·	'
balsam pear, bitter	Tobacco Budworm		Do not make more that two
melon, Chinese	Grasshopper		applications after bloom.
cucumber)			
Muskmelon (hybrids and/or	Wireworm	10.0 to 20.0	Do not make applications
cultivars	Maggot	(0.05 – 0.10)	less than 7 days apart.
of Cucumis melo)	Grubs	(0.00 0)	1
(includes true	Whitefly	16.0 to 20.0	Do not apply within 3 days
cantaloupe, cantaloupe,	Banks Grass Mite		of harvest.
casaba, crenshaw melon,		(0.08 - 0.10)	
golden pershaw	Twospotted Spider Mite		For Wireworm, maggot or
melon, honeydew melon,	Carmine Mite		grubs, apply in-furrow with
honey balls, mango	Lygus Spp.	*	the seed or transplant.
melon, Persian melon,			and dodd or danoplaria.
pineapple melon, Santa			<u> </u>
Claus melon, and snake			
melon)			
Pumpkin (Cucurbita spp.)		_	
Squash, summer (includes			
crookneck squash,			
scallop squash,	·		
straightneck squash,	[	<b>\</b>	
vegetable marrow,	1		•
zucchini)	<u> </u>		
Squash, winter (includes			·
butternut	İ		·
squash, calabaza,	·		
hubbard squash			
(C. mixta; C. pepo)		1	i
· includes acorn squash,	1		
			1
spaghetti squash) Watermelon (includes			
		1	
hybrids and/or varieties of			
Citrullus spp.).	1		<u> </u>

<sup>\*1</sup> bag = 0.04 lb ai

## **EGGPLANT**

		Dosage*	
Crop	Pest	oz./A (lb. ai/A)	Directions
Eggplant	Colorado Potato Beetle Corn Earworm European Corn Borer Flea Beetle Cucumber Beetle Cabbage Looper Tomato Pinworm Tomato Hornworm Vegetable Leafminer Armyworms Plant Bug Stink Bug Thrips	6.6 to 20.0 (0.033 - 0.10)	Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment.  Thorough coverage is essential to achieve control.  Do not make applications less than 7 days apart.  Do not apply more than 40 oz or 5 bags (0.2 lb active
	Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus Spp. Whitefly	16.0 to 20.0 (0.08 - 0.10)	ingredient) per acre per season.  Do not apply within 7 days of harvest.

<sup>\*1</sup> bag = 0.04 lb ai

### **LETTUCE, HEAD**

Pest	Dosage* oz./A (lb. ai/A)	Directions
Aphids Armyworms Corn earworm Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Imported Cabbageworm Leafhoppers Loopers Salt Marsh Caterpillar Stink bug Spp. Tobacco Budworm	6.6 to 20.0 (0.033 - 0.10)	Apply in water as necessary for insect control using a minimum of 20 gallons of finished spray per acre with ground equipment and 5 gallons per acre by air.  Thorough coverage is essential to achieve control.  Do not make applications less than 7 days apart.  A maximum of 100 oz or 12.5 bags (0.5 lb. active ingredient) may be applied per acre per season.  Do not apply within 7 days of harvest.
Lygus Spp. Carmine Mite Two Spotted Spider Mite Whitefly	16.0 to 20.0 (0.08 - 0.10)	

<sup>\*1</sup> bag = 0.04 lb ai

## PEPPERS, BELL AND NON-BELL

Pest	Dosage* oz./A (lb. ai/A)	Directions
Armyworms Corn earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Leafminers Loopers Pepper Weevil Thrips	6.6 to 20.0 (0.033 - 0.10)	Apply using sufficient water to obtain uniform coverage. Apply as needed. Apply with ground equipment using a minimum of 20 gallons of finished spray per acre or a minimum of 5 gallons per acre by aircraft.  Do not make applications less than 7 days apart.  Do not apply more than 40 oz or 5 bags (0.20 lb active ingredient) per acre per season.
		Do not apply within 7 days of harvest.

Lygus Spp. Broad Mite Carmine Mite Two Spotted Spider Mite Whitefly	16.0 to 20.0 (0.08 - 0.10)		
· · · · · · · · · · · · · · · · · · ·			

<sup>\*1</sup> bag = 0.04 lb ai

TOMATOES (1 day phi)

TOMATOES (1 day phi)		
Pest	Dosage* oz./A (lb. ai/A)	Directions
Aphids		Apply in water as necessary for insect
Armyworms	6.6 to 16.0	control using a minimum of 15 gallons
Including: Beet	(0.033 - 0.08)	of finished spray per acre with ground
Armyworm, Fall		equipment.
Armyworm, Southern		
Yellowstriped Armyworm		Thorough coverage is essential to
Bean Leaf Beetle		achieve control.
Cabbageworm		
Carmine Mite		Do not make applications less than 10
Cloverworm		days apart.
Corn earworm		1 '
Corn Rootworm (adults)		A maximum of 4 applications may be
Cucumber Beetles		applied per season.
Cutworms		
Diamondback Moth		For Wireworm, maggot or grubs, apply
European Corn Borer	,	in-furrow with the seed or transplant.
Flea Beetles		
Flea Hopper	,	
Grasshopper		
Hornworm		
Japanese Beetle (Adult)		
Leafhoppers		1
Loopers		
Lygus Spp.		•
Melonworm		
Pea Weevil		
Pea Leaf Weevil	·	•
Pickleworm		
Pinworm		
Plant Bug		
Rindworm		
Salt Marsh Caterpillar	· ·	<b>,</b>
Sap Beetle		1
Seedpod Weevil		
Squash Bugs		
Stink bug Spp.		
Tobacco-Budworm		
Tarnished Plant Bug		·
Thrips	•	
Two Spotted Spider Mite		
Whitefly	·	1
Wireworm	10.0 to 16.0	†
Maggot	(0.05 – 0.08)	,
Grubs	(0.00 0.00)	
Oruba		

<sup>\*1</sup> bag = 0.04 lb ai

Spinach (40 day phi)

Opinach (40 day pin)		
Pest	Dosage* oz./A (lb. ai/A)	Directions
Colorado Potato Beetle Tomato Pinworm Tomato Hornworm Armyworms Corn earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Leafminers Loopers Pepper Weevil Thrips	6.6 to 20.0 (0.033 to 0.10)	For control of fire ants apply Capture 8% ME to the soil (at planting) or as a foliar treatment by ground or air at rates of up to 20 ounces or 2.5 bags (0.1 lb active) per acre at minimum 7-day intervals up to a maximum of 4 applications.  Do not apply within 40 days of harvest.  Apply the specified dosage in 5-50 gallons of finished spray per acre by air or 10-50 gallons finished spray per acre by ground.  Do not make applications less than 7 days apart.
Broad Mite Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus Spp. Fire Ants Whitefly	16.0 to 20.0 (0.08 to 0.10)	Do not apply more than 80 ounces or 10 bags (0.4 pounds active ingredient) per acre per season.

<sup>\*1</sup> bag = 0.04 lb ai

### **GRAPES**

0.00 -		
Pest	Dosage* oz./A (lb. ai/A)	Directions
	02.1A (ID. al/A)	
Cutworms Eastern grape leafhopper Grape berry moth Japanese beetles adults	10.0 to 20.0 (0.05 - 0.10)	Apply in a minimum of 10 gallons of finished spray by air or in a minimum of 25 gallons of finished spray with ground equipment.
Variegated leafhopper Western grape leafhopper		Thorough coverage is essential to achieve control.
Black vine weevil Glassywinged sharpshooter	20.0	When pest pressure is moderate to severe, use higher rate.
Twospotted spider mite	(0.10)	Do not apply more than 20 ounces or 2.5 bags (0.10 lb ai) per acre per season.
		Do not apply within 30 days of harvest.

<sup>\*1</sup> bag = 0.04 lb ai

AT-PLANT USE DIRECTIONS- All Labeled Crops

Pest	Dosage* oz./A (lb. ai/A)	Directions
Army Cutworm Cutworm Species True Armyworm or Armyworm Species	10.0 to 16.0 (0.05 - 0.10)	Apply as a broadcast application in water at a minimum of 10 gallons of finished spray per acre by ground or 2 gallons of finished spray per acre by air.  Follow all label directions for maximum use rates per season, crop rotational intervals, and harvest restrictions as stated in the specific crop sections of this label.

<sup>\*1</sup> bag = 0.04 lb ai

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