

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

February 23, 2009

Christopher Davis FMC Corp. 1735 Market Street Philadelphia, PA 19103

Subject:

Amendment - Response to Agency's August 28, 2008 letter

Capture 2EC Insecticide/Miticide

EPA Reg. No. 279-3069

Your submission dated February 13, 2009

Dear Mr. Davis:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comments listed below. Two (2) copies of the finished labeling must be submitted prior to releasing the product for shipment. A stamped copy of the label is enclosed for your records.

1. Update the label as required under the Agency's February 21, 2008 letter concerning "Spray Drift Language for Pyrethroid Agricultural Use Products".

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

If you have any questions regarding this action, please contact BeWanda Alexander at (703) 305-7460.

Sincerely,

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Interim Product Manager 13

Insecticide Branch

Registration Division (7505P)

### 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.

# **APTURE 2EC**

# Insecticide/Miticide

### CAPTURE 2EC IS NOT FOR SALE OR USE IN CALIFORNIA.

EPA Reg. No. 279-3069

EPA Est. No. 279

**Active Ingredient:** 

Bifenthrin: (2 methyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-

Other Ingredients:\*\* 74.9%

100.0%

This product contains 2 pounds active ingredient per gallon. U.S. Patent No. 4,238,505

**ALL-WEATHER FORMULA** 

# KEEP OUT OF REACH OF CHILDREN **WARNING AVISO**

Under the Federal Insecticide. Fungicide, and Rodenticide Act as amended, for the pesticide Registered unde RPA Reg. No. 🕢

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.)

See other panels for additional precautionary information.

### **FIRST AID**

If Swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

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

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

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

### **HOTLINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-331-3148 for emergency medical treatment information.

# NOTE TO PHYŠICIÁN

This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided. Contains petroleum distillate - vomiting may cause aspiration pneumonia.

For Emergency Assistance Call (800) 331-3148.

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

**Net Contents:** 

<sup>\*\*</sup>Cis isomers 97% minimum, trans isomers 3% maximum.

<sup>\*\*</sup>Contains xylene range aromatic solvents.

### PRECAUTIONARY STATEMENTS

**Hazards to Humans (and Domestic Animals)** 

### Warning

May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing.

**Personal Protective Equipment:** Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Handlers who may be exposed to the dilute through application or other tasks must wear: long-sleeved shirt and long pants, chemical resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton, and shoes plus socks.

Handlers who may be exposed to the concentrate through mixing, loading, application or other tasks must wear: long-sleeved shirt and long pants, chemical-resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton, shoes plus socks, and protective eyewear. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

# **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.

### **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.

### Physical/Chemical Hazards

Do not use or store near heat or open flame.

### 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.

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

### STORAGE AND DISPOSAL

### **Pesticide Storage**

Do not freeze. Do not store below 40° F. If crystals are observed, warm material to above 60° F by placing container in warm location. Shake or roll container periodically to redissolve solids. 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 containers. Do

not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call FMC: 1-(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. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

### 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 other procedures approved by State and local authorities. Do not cut or weld metal containers. U-Turn® Container: Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

### **Chemigation Use Directions**

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

For LEPA irrigation a minimum of 0.75 inch of water per acre is recommended. Where non-emulsified oils are used as the diluent, 1 to 2 pints per acre is recommended.

Results from utilizing chemigation have been variable and depend upon the set up and calibration of equipment. Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. Contact your State Agricultural Extension Service specialists, equipment manufacturers or other experts for consultation on the suitability of the equipment set up to obtain effective control of the target insect pests.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. Failure to cease application during a mechanical stoppage may result in undesirable residues to adjacent areas.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment. Capture® 2 EC insecticide/miticide should be applied continuously for the duration of the water application. Capture 2 EC should be diluted in sufficient volume to ensure accurate application over the area to be treated. When using chemigation, a minimum of 0.5 inch per acre of irrigation water is recommended. Agitation generally is not required when a suitable diluent is used. A diluent test should be conducted to ensure that phase separation will not occur during dilution and application. Failure to achieve a uniform dilution throughout the time of application may result in undesirable residues or less than desirable control.

### **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 2 EC Insecticide/Miticide 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.

# **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.

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

### **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 ponds, estuaries, and commercial fish farm pond. Increase the buffer zone to 450 feet when ultra low volume (ULV) application is made in cotton. Use of ultra low volume (ULV) application on corn and hops is prohibited.

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

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

Spray should be released at the lowest height consistent with pest control and flight safety. Applications more 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 corn 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 smoke and observing a smoke layer near the ground surface.

#### COTTON

PEST	DOSAGE			
PESI	LB AI/A	FL OZ/A		
European Corn Borer Soybean (Banded) Thrips Tobacco Thrips	0.02-0. 10	1.3-6.4		
Boll Weevil Bollworrn Cabbage Looper Cotton Aphid Cotton Fleahopper Cotton Leafperforator Cutworms Fall Armyworm Plant Bugs Saltmarsh Caterpillar Southern Garden Leafhopper Stink Bugs Tobacco Budworm Whitefly Yellow Striped Armyworm	0.04-0.10	2.6-6.4		
Beet Armyworm Carmine Spider Mite Lygus Spp. Pink Bollworm Twospotted Spider Mite	0.06-0.10	3.8-6.4		

### **RESTRICTIONS—Cotton**

Do not apply more than 0.5 pound active per acre per season.

Do not apply within 14 days of harvest.

Do not graze livestock in treated areas or cut treated crops for feed.

Do not make more than 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season. Synthetic pyrethroid products include Ambush®, Ammo®, Asana® XL, Baythroid®, Capture®, Danitol®, Karate®, Mustang®, and Scout X-TRA®.

### **REMARKS—Cotton**

Capture 2 EC may be applied in water or refined vegetable oil (soybean/cottonseed).

**Application in Water:** Apply in a minimum of 5 gallons per acre with ground equipment or 1 gallon per acre by aircraft. When applying by air, 1 quart of emulsified oil may be substituted for one quart of water in the finished spray.

**ULV Application**: Apply the recommended rate of Capture 2 EC in refined vegetable oil in a minimum of 1 quart of finished spray per acre with aircraft calibrated to give adequate coverage.

To Control Boll Weevil: Apply Capture 2 EC at an interval of 3 to 4 days until pest numbers are reduced to acceptable levels.

**To Control Mites and Aphids**: Apply when pests first appear. Repeat as necessary to maintain control. Higher rates will be required once a damaging threshold is established.

This product is not for sale or use in the State of California.

# FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (AT PLANT USE)

TEANT OOL)					
PEST DOSAGE		AGE	REMARKS		
Corn Rootworm Larvae Northern Southern Western	0.0046 pound active per 1,000 linear feet of row	0.30 fluid ounces per 1,000 linear feet of row	Apply as a 5 to 7 inch T-band treatment over an open seed furrow. Position the spray nozzle behind the planter shoe, in front of the press wheel centered over the row. Use the table below to determine the Capture 2EC needs per acre. Apply in a minimum of 3 gallons of finished spray per acre.  Mix Capture 2EC with water or fertilizer in the following		

Army Cutworm Cutworm Species Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm or Armyworm Species Wireworm	0.0023 to 0.0046 pound active per 1,000 linear feet of row	0.15 to 0.30 fluid ounces per 1,000 linear feet of row	manner. Fill the spray tank approximately one-half full with water or liquid fertilizer, add the proper amount of Capture 2EC, then add the rest of the water or fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform spray mixture.  Applications of Capture 2EC alone or in recommended tank mixtures, in conjunction with in furrow pop-up fertilizers may be used. A jar compatibility test should be performed with appropriate ratio of Capture 2EC and fertilizer to ensure mixture will stay in solution. Constant agitation should be maintained during mixing and application.  Do not apply to soil where there is greater than 30% cover of crop residue remaining.  Do not apply within 30 days of harvest Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment. Do not apply more than 0.1 pound active per acre per season as an at plant application.
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Row Spacings (inches)	40	38	36	30 .
Capture 2EC (pounds ai per acre)	0.060	0.064	0.069	0.080
Capture 2EC (formulated ounces per acre)	3.9	4.1	4.4	5.12

# FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (PRE & PPI)

Pest	Dos	sage	Remarks		
Błack Cutworm White Grub Wireworm Seedcorn Maggot Armyworm spp. Stalkborer	0.047 to 0.062 LB Al/A Pre-Plant Incorporated (PPI)	3 to 4 FL OZ/A Pre-Plant Incorporated (PPI)	The 3- 4oz/A rate must be applied as PPI and can be tankmixed and applied with PPI herbicides. Incorporation of Capture should not be any deeper than the intended planting depth and no deeper than 3 inches. Incorporation depth should be close to the intended seed planting depth.		
Black Cutworm Armyworm spp. Stalkborer	0.040 LB Al/A Pre- Emergence (PRE)	2.56 FL OZ/A Pre- Emergence (PRE)	The 2.56 oz/A rate may be applied PRE and can be tankmixed and applied with PRE herbicides.		

# FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (FOLIAR USE)

PEST		SAGE
	LB AI/A	FL OZ/A
Aphids Army Cutworm Beet Armyworm Cereal Leaf Beetle Chinch Bug Common Stalk Borer Corn Earworm Corn Rootworm Adults Cucumber Beetle Adult Cutworm Species European Corn Borer Fall Armyworm Flea Beetle Grasshoppers Greenbug Japanese Beetle Adult Sap Beetle Southern Armyworm Southern Corn Leaf Beetle Southwestern Corn Borer Stinkbugs Tarnished Plant Bug True Armyworm or Armyworm Species Webworms Western Bean Cutworm Yellowstriped Armyworm	0.033-0.10	2.1-6.4

Banks Grass Mite Carmine Mite Twospotted Spider Mite	0.08-0.10	5.12-6.4

### **RESTRICTIONS—Corn**

Do not apply more than 0.3 pound active per acre per season including pre & ppi, at plant, plus foliar applications.

Do not apply within 30 days of harvest.

Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application. Use of ultra low volume (ULV) application on corn is prohibited.

Do not make aerial or ground applications to corn if heavy rainfall is imminent.

Use of Capture 2EC on corn is prohibited in all coastal counties.

#### REMARKS—Corn

**General**: Apply in a minimum of 2-5 gallons of finished spray per acre by aircraft or in a minimum of 10 gallons per acre with ground equipment. To improve control by aircraft, use 5 gallons of finished spray per acre particularly when initial populations are heavier than normal. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

**To control ear-attacking pests**: Apply Capture 2 EC just before silking and repeat as necessary to maintain control.

**Southwestern Corn Borer, European Corn Borer**: Make application for corn borer control with initial application at or shortly before egg hatch.

For control of other insect pests: Apply when pests first appear and repeat as necessary.

For Control of Mites: Apply for Banks Grass Mite control when colonies first form prior to leaf damage or discoloration and before dispersal above the bottom third of the plant.

For Twospotted Spider Mite and Carmine Mite control, apply when colonies first form prior to leaf damage or discoloration and before widespread mite dispersal throughout the canopy.

Higher rates will be necessary for heavier initial populations and corn under heat or drought stress. Field experience with dimethoate at 0.5 lb. active per acre in tank mixture has demonstrated good control under these conditions.

For mite control in Texas, New Mexico, Oklahoma, Arizona: Apply in a minimum of 5 gallons of finished spray per acre by aircraft or in a minimum of 10 gallons per acre with ground equipment.

#### SWEET CORN (GRAIN AND SILAGE) SWEET CORN GROWN FOR SEED (AT PLANT USE

SWEET CORN (GRAIN	I AND SIL	AGE) SWE	EET CORN GROWN FOR SEED (AT PLANT U
PEST	DOS	AGE	REMARKS
Corn Rootworm Larvae Northern Southern Western  Army Cutworm	0.0046 pound active per 1,000 linear feet of row	0.30 fluid ounces per 1,000 linear feet of row	Apply as a 5 to 7 inch T-band treatment over an open seed furrow. Position the spray nozzle behind the planter shoe, in front of the press wheel centered over the row. Use the table below to determine the Capture 2EC needs per acre. Apply in a minimum of 3 gallons of finished spray per acre.  Mix Capture 2EC with water or fertilizer in the following manner. Fill the spray tank approximately one-half full with
Cutworm Species Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm or Armyworm Species Wireworm	to 0.0046 pound active per 1,000 linear feet of row	0.30 fluid ounces per 1,000 linear feet of row	water or liquid fertilizer, add the proper amount of Capture 2EC, then add the rest of the water or fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform spray mixture.  Applications of Capture 2EC alone or in recommended tank mixtures, in conjunction with in furrow pop-up fertilizers may be used. A jar compatibility test should be performed with appropriate ratio of Capture 2EC and fertilizer to ensure mixture will stay in solution. Constant agitation should be maintained during mixing and application.
,			Do not apply to soil where there is greater than 30% cover of crop residue remaining.  Do not apply within 30 days of harvest.  Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment.  Do not apply more than 0.1 pound active per acre per season as an at plant application.

Row Spacings (inches)	40	38	36	30
Capture 2EC (pounds ai per acre)	0.060	0.064	0.069	0.080
Capture 2EC (formulated ounces per acre)	3.9	4.1	4.4	5.12

SWEET CORN (GRAIN AND SILAGE) SWEET CORN GROWN FOR SEED (FOLIAR USE)

GROWN FOR SEED (FOLIAN USE)				
PEST	DC LB Al/A	SAGE FL OZ/A		
Aphids	LD AI/A	1000		
Army Cutworm	0.033-0.10	2.1-6.4		
Beet Armyworm	0.000-0.10	2.1-0.4		
Cereal Leaf Beetle				
Chinch Bug				
Common Stalk Borer				
Corn Earworm				
Corn Rootworm Adults				
Cucumber Beetle Adult				
Cutworm Species				
European Corn Borer				
Fall Armyworm				
Flea Beetle				
Grasshoppers				
Greenbug				
Japanese Beetle Adult				
Sap Beetle				
Southern Armyworm				
Southern Corn Leaf Beetle				
Southwestern Corn Borer				
Stinkbugs				
Tarnished Plant Bug				
True Armyworm or				
Armyworm Species				
Webworms				
Western Bean Cutworm				
Yellowstriped Armyworm				
Banks Grass Mite				
Carmine Mite	0.00.0.40	5 40 6 4		
Twospotted Spider Mite	0.08-0.10	5.12-6.4		

### **RESTRICTIONS—Sweet Corn**

Do not apply more than 0.2 pounds active ingredient (12.8 ounces formulated) per acre per season.

Do not apply within one day of harvest.

Do not graze livestock in treated areas or cut treated crops for feed within 1 day of the last application.

Use of ultra low volume (ULV) application on corn is prohibited.

Do not make aerial or ground applications to com if heavy rainfall is imminent.

Use of Capture 2EC is prohibited in all coastal counties.

### **REMARKS—Sweet Corn**

**General:** 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. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

To control ear-attacking pests: Apply Capture® 2EC when silking begins and repeat as necessary to maintain control.

**Southwestern Corn Borer, European Corn Borer**: Make 2 applications for corn borer control with the initial application at or shortly before egg hatch.

For control of other insect pests: Apply when pests first appear and repeat as necessary. For Control of Mites:

Apply for Banks Grass Mite control when colonies first form prior to leaf damage or discoloration and before dispersal above the bottom third of the plant.

For Twospotted Spider Mite and Carmine Mite control, apply when colonies first form prior to leaf damage or discoloration and before widespread mite dispersal throughout the canopy.

Higher rates will be necessary for heavier initial populations and corn under heat or drought stress.

# **SUCCULENT PEAS AND BEANS**

COCCUENTIERS	DOSAGE				
CROP	PEST	LB/AI/A	FLOZ/A	REMARKS	
Pea (Pisum'spp.): Dwarf pea, Edible-pod pea, English pea, Garden pea, Gareen pea, Snow pea, Sugar snap pea Pigeon pea Bean (Phaseolus spp.): Broadbean (succulent) Lima bean (green) Runner bean, Snap bean, Wax bean Bean (Vigna spp.): Asparagus bean, Blackeyed pea Chinese longbean, Cowpea, Moth bean, Southern pea Yardlong bean Jackbean Soybean (immature seed) Sword bean	Flea Beetle Grasshoppers Aster Leafhopper Leafhoppers  Aphids 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 Webworms Pea Weevil Pea Leaf Weevil Whitefly	0.025 - 0.10	2.1 - 6.4	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. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.  Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated) per acre per season.  Do not apply within 3 days of harvest.	
	Banks Grass Mite Twospotted Spider Mite Carmine Mite Lygus Spp	. 0.08 - 0.10	5.12 - 6.4		

# **BRASSICAS**

DUASSICAS				
	<b>!</b>	DOS	SAGE	"
CROP	PEST	LB/AI/A	FLOZ/A	REMARKS
Head and Stem Brassica Vegetables including: Broccoli Chinese Broccoli (gailon, white flowering broccoli) Brussels Sprouts Cauliflower Cavalo broccolo Kohlrabi Cabbage Chinese Cabbage (napa) Chinese Mustard Cabbage (gai choy)	Cutworms Corn Earworm Tobacco Budworm Saltmarsh Caterpillar Leafhoppers Flea Beetles Imported Cabbageworm Cucumber Beetles Aphids Whitefly Armyworms Loopers Stink Bugs Crickets Ground Beetles Thrips Wireworm (adults) Diamondback Moth	0.033 - 0.10	2.1 - 6.4	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. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.  Do not apply more than 0.5 lb. active ingredient (1 quart) per acre per season.  Do not make more than 5 applications after bloom.  Do not make applications less than 7 days apart.
	Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus Spp.	0.08 - 0.10	5.12 - 6.4	Do not apply within 7 days of harvest.

CANOLA, CRAMBE, RAPESEED

	,	DOS	AGE	
CROP	PEST	LB/AI/A	FLOZ/A	REMARKS
Canola Crambe Rapeseed	Aphids Cutworms Diamondback	0.033 - 0.04	2.1 – 2.6	Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons
	Moth Loopers Other Lepidopterous Larvae Flea Beetle Flea Hopper Grasshopper	·		per acre with ground equipment. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.
	Plant Bug Stink Bugs Seedpod Weevil		÷	Do not apply more than 0.08 lb active ingredient (5.12 ounces) per acre per season.
	Thrips Whitefly Armyworms			Do not make applications less than 14 days apart.
				Do not apply within 35 days of harvest.

CUCURBITS

		DOS	SAGE	
CROP	PEST	LB/AI/A	FLOZ/A	REMARKS
Chayote (fruit) Chinese waxgourd (Chinese preserving melon) Citron melon Cucumber Gherkin Gourd, edible (includes hyotan, cucuzza) (Luffa spp.) (includes hechima, Chinese okra) (Momordica spp.) (includes balsam apple, balsam pear, bitter melon, Chinese cucumber) Muskmelon (hybrids and/or cultivars of Cucumis melo) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon) Pumpkin (Cucurbita spp.) Squash, summer (includes	Aphids Cutworms Cabbage Looper Leafhoppers Cucumber Beetles Squash Bugs Melonworm Pickleworm Plant Bug Stink Bugs Rindworm Squash Vine Borer Armyworms Corn Earworm Tobacco Budworm Grasshopper Whitefly Banks Grass	0.04 - 0.10	5.12 - 6.4	Apply in a minimum of 5 gallons of finished spray per acre by air or in a minimum of 20 gallons per acre with ground equipment. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.  Do not apply more than 0.3 lb active ingredient (19.2 ounces formulated) per acre per season.  Do not make more than two applications after bloom.  Do not make applications less than 7 days apart.
crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini) Squash, winter (includes butternut squash, calabaza, hubbard squash (C. mixta; C. pepo) includes acorn squash, spaghetti squash) Watermelon (includes hybrids and/or varieties of Citrullus spp.).	Mite Twospotted Spider Mite Carmine Mite Lygus Spp.			Do not apply within 3 days of harvest.

# **EGGPLANT**

Eddi EAITI				· · · · · · · · · · · · · · · · · · ·
		DOS.	AGE	
CROP	PEST	LB/AI/A	FLOZ/A	REMARKS
Eggplant	Colorado Potato Beetle Corn Earworm European Corn Borer Flea Beetle Cucumber Beetle Cabbage Looper Tomato Pinworm Tomato Hornworm Vegetable Leafminer Whitefly Armyworms Plant Bug Stink Bug Thrips	0.033 - 0.10	2.1 - 6.4	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. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.  Do not make applications less than 7 days apart.
	<b>}</b>	1		Do not apply more than 0.2 lb

Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus Spp.	0.08 - 0.10	5.12 - 6.4	active ingredient (12.8 ounces formulated) per acre per season.  Do not apply within 7 days of harvest.
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LETTUCE, HEAD

	DOS	AGE	
PEST	LB/Al/A	FLOZ/A	REMARKS
Aphids Armyworms Corn earworm Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Imported Cabbageworm Leafhoppers Loopers Salt Marsh Caterpillar Stink bug Spp. Tobacco Budworm Whitefly	0.033 - 0.10	2.1 - 6.4	Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment and 5 gallons per acre by air. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control. Do not make applications less than 7 days apart.  A maximum of 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	0.08 - 0.10	5.12 - 6.4	

# **CANEBERRIES**

		DOS	AGE	
CROP	PEST	LB/AI/A	FLOZ/A	REMARKS
Caneberries Including: Blackberries Bingleberries	Leafrollers Orange Tortrix Root Weevils	0.05 - 0.10	3.2 - 6.4	Apply by air or ground equipment using sufficient water to obtain full coverage of foliage. (minimum of 10 gallon
ewberries owberries larionberries olallieberries oungberries oganberries laspberries	Raspberry Crown Borer Spider Mites	0.10	6.4	per acre by air and 50 gallons per acre by ground).  One application may be made pre-bloom and a second application may be made post bloom.
				For Crown Borer, apply 0.1 lb ai/a post harvest (fall) or pre-bloom (spring), as a drench application directed at the crown of plants in a minimum 200 gallons water/ acre. Greater efficacy is observed a higher water gallonages (up to 400 gallons/a) or in an application prior to a significar rainfall event. Do not make bo pre-bloom foliar and pre-bloor drench applications.
,				Do not apply within 3 days of harvest.
				Do not exceed 0.2 lb ai per ad per season.

# **ARTICHOKE**

	DOSAGE		
PEST	LB/AI/A	FLOZ/A	REMARKS

Cribrate Weevil Artichoke Plume Moth	0.10	6.4	Apply when pest population reaches damaging threshold and repeat as necessary to maintain control, but not more often than 15 day intervals.
			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 0.5 lb ai per acre per season. A 5-day preharvest interval must be observed.

# PEPPERS, BELL AND NON-BELL

	DOS	AGE	
PEST	LB/AI/A	FLOZ/A	REMARKS
Armyworms Corn earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Leafminers Loopers Pepper Weevil Thrips Whitefly	0.033 - 0.10	2.1 - 6.4	Apply using sufficient water to obtain uniform coverage. Apply as needed. Apply with ground equipment using a minimum of 10 gallons of finished spray per acre or a minimum of 2 gallons per acre by aircraft.  Do not make applications less than 7 days apart.  Do not apply more than 0.20 pound active ingredient per acre per season.  Do not apply within 7 days of harvest.
Lygus Spp. Broad Mite Carmine Mite Two Spotted Spider Mite	0.08 - 0.10	5.12 - 6.4	

# HOPS

	DOS	AGE	
PEST	LB/AI/A	FLOZ/A	REMARKS
Aphids Armyworms	0.06 - 0.10	3.8 - 6.4	Do not exceed 0.1 lb ai per acre per application.
Cutworms Leafrollers		·	Do not exceed 0.3 lb ai per acre per season.
Loopers			A spray interval of 21 days between applications must be maintained.
Root Weevils	0.05 - 0.10	3.2 - 6.4	A 14 day pre-harvest interval must be observed.
Twospotted spider mite	0.10	6.4	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 6.4 oz. (0.1 lb ai) per application in a minimum of 10 gallons per acre.
			Use of ultra low volume (ULV) application on hops is prohibited.
	1		1

# **PEARS**

	DOSAGE		·
PEST	LB/AI/A	FLOZ/A	RÉMARKS

Aphids Codling Moth Cutworms Green Fruitworm Leafhoppers Leafminers Leafrollers Lygus spp. Plant Bugs Plum Curculio San Jose Scale (Crawlers) Stink Bugs Tarnished Plant Bugs	0.04 to 0.20	2.6 to12.8	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 dosage in a minimum of 10 gallons per acre by air.  Do not apply more than 0.5 pound active per acre per season with no more than 0.45 pound active per acre applied after petal fall.  Apply as necessary to maintain control using a minimum of 30 day spray interval.  Apply up to 14 days prior to harvest.
Twospotted Spider Mite Yellow Mite	0.06 - 0.20	3.8 to 12.8	Do not graze livestock in treated orchards or cut treated cover crops for feed.
European Red Mite	0.08 - 0.20	5.12 to 12.8	

# CITRUS (1 day phi)

Insects Controlled	Rate of Application	Method of Application
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 (Artipus floridanus)	16 - 32 fluid ounces (0.25 - 0.50 pound active) per acre	Apply Capture 2EC by ground equipment to bare soil beneath citrus trees. Capture 2EC 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 2EC 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 2EC as they attempt to burrow into the root zone. Disturbance of the soil beneath trees should be minimized.  Timing of Capture 2EC applications is critical. Current information suggests that peak emergence of adult Diaprepes Weevil varies by citrus growing region and these
Fire ants (Solenopsis spp.) Asian cockroach (Blattélla asahinae)	6.4 - 16 fluid ounces (0.1 - 0.25 pound active) per acre.	emergence peaks can be dramatically affected by environmental factors, such as soil moisture. Typically, two peaks are observed for Diaprepes, first in spring then late summer or 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 2EC 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 2EC soil barrier in place prior to drop of the neonates.
		Capture 2EC is one of several effective tools in an integrated pest management program for Citrus Root Weevils. Application of Capture 2EC 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 hand-gun 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, 32 fluid ounces formulated product 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, 16 fluid ounces formulated product can be applied early season and 16 fluid ounces formulated product can be applied later in the season.
Do not apply through irrina	tion avatama	

Do not apply through irrigation systems.

Do not allow any application of Capture 2EC to contact fruit or foliage.

Do not apply more than a total of 32 fluid ounces of formulated product (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.

TOMATOES (1 day phi)

Aphids Armyworms Including: Beet Armyworm, Fall Armyworm, Southern Yellowstriped Armyworm Bean Leaf Beetle Cabbageworm Carmine Mite Cloverworm Corn earworm Corn Bootworm Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leafhoppers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil Pickleworm	2.1 - 5.2 fluid ounces (0.033 - 0.08 pound active) per acre.	Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment.  Thorough coverage is essential to achieve control.
Including: Beet Armyworm, Fall Armyworm, Southern Yellowstriped Armyworm Bean Leaf Beette Cabbageworm Carmine Mite Cloverworm Corn earworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leafhoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		finished spray per acre with ground equipment.  Thorough coverage is essential to achieve
Armyworm, Fall Armyworm, Southern Yellowstriped Armyworm Bean Leaf Beetle Cabbageworm Carmine Mite Cloverworm Corn Rootworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leathoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		finished spray per acre with ground equipment.  Thorough coverage is essential to achieve
Armyworm, Southern Yellowstriped Armyworm Bean Leaf Beetle Cabbageworm Carmine Mite Cloverworm Corn Rootworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leafhoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		equipment.  Thorough coverage is essential to achieve
Armyworm, Southern Yellowstriped Armyworm Bean Leaf Beetle Cabbageworm Carmine Mite Cloverworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leathoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		Thorough coverage is essential to achieve
Bean Leaf Beetle Cabbageworm Carmine Mite Cloverworm Corn earworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leafhoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		
Cabbageworm Carmine Mite Cloverworm Corn earworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leafhoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		
Carmine Mite Cloverworm Corn earworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leafhoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		
Cloverworm Corn earworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leathoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		
Corn earworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leathoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		
Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leathoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		
Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leathoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		
Cucumber Beetles Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leafhoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		
Cutworms Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leathoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		
Diamondback Moth European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leafhoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		
European Corn Borer Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leathoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		
Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leathoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		·
Flea Hopper Grasshopper Japanese Beetle (Adult) Leathoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		
Grasshopper Japanese Beetle (Adult) Leathoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		
Japanese Beetle (Adult) Leathoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		
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Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil		
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Melonworm Pea Weevil Pea Leaf Weevil	•	•
Pea Weevil Pea Leaf Weevil		
Pea Leaf Weevil	•	
	•	
Plant Bug		
Rindworm		
Salt Marsh Caterpillar		
Sap Beetle		
Seedpod Weevil		•
Squash Bugs		
Stink bug Spp.		
Tobacco Budworm		
Tarnished Plant Bug		
Thrips	•	
Two Spotted Spider Mite		1
Whitefly		

Do not make applications less than 10 days apart.

A maximum of 4 applications may be applied per season.

Spinach (40 day phi)

Insects Controlled	Rate of Application	Method of Application
Colorado Potato Beetle Tomato Pinworm Tomato Hornworm Armyworms Corn earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Leafminers Loopers Pepper Weevil Thrips Whitefly	2.1 to 6.4 ounces (0.033 to 0.10 pound active) per acre	For control of whiteflies apply foliar treatments of Capture® insecticide by ground or air at rates of up to 0.4 pt. (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.  For control of fire ants apply Capture® insecticide to the soil (at planting) or as a foliar treatment by ground or air at rates of up to 0.4 pt. (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.
Broad Mite Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus Spp. Fire Ants	5.12 to 6.4 ounces (0.08 to 0.10 pound active) per acre	

# **GRAPES**

	DOS	AGE	
PEST	LB/AI/A	FLOZ/A	REMARKS
Cutworms Eastern grape leafhopper Grape berry moth Japanese beetles adults Variegated leafhopper Western grape leafhopper	0.05 - 0.10	3.2 - 6.4	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.  When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray.  Thorough coverage is essential to achieve control.
Black vine weevil Glassywinged sharpshooter Twospotted spider mite	0.10	6.4	When pest pressure is moderate to severe, use higher rate.  Do not apply more than 0.10 lb ai per acre per season.  Do not apply within 30 days of harvest.

# **OKRA**

PEST		REMARKS	
	LBS AI/A	FL OZ/A	
Armyworms Corn earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Leafminers Loopers Thrips Whitefly Aphids Japanese Beetle (Adult), Stink bugs	0.033 to 0.10	2.1 to 6.4	Apply using sufficient water to obtain uniform coverage. Apply as needed. Apply with ground equipment using a minimum of 10 gallons of finished spray per acre or a minimum of 2 gallons per acre by aircraft.  Do not make applications less than 7 days apart.  Do not apply more than 0.20 pound active ingredient per
Lygus Spp. Broad Mite Carmine Mite Two Spotted Spider Mite	0.08 to 0.10	5.12 to 6.4	acre per season.  Do not apply within 7 days of harvest.

CILANTRO, CORIANDER

PEST		REMARKS	
	LBS AI/A	FL OZ/A	,
Spotted Cucumber Beetle Beet Armyworm Cabbage Looper Aphids Whitefly Flea beetle Thrips Leafminer Cutworm Grasshoppers Saltmarsh caterpillar	0.033 to 0.10	2.1 to 6.4	Apply using sufficient water to obtain uniform coverage. Apply as needed. Apply with ground equipment using a minimum of 10 gallons of finished spray per acre or a minimum of 2 gallons per acre by aircraft.  Do not make applications less than 7 days apart.  Do not apply more than 0.50 pound active ingredient per acre per season.
Two Spotted Spider Mite	0.08 to 0.10	5.12 to 6.4	Do not apply within 3 days of harvest.

CROP	PEST	DO	SAGE	REMARKS
		LBS AVA	FL OZ/A	
Dried cultivars of: Bean (Lupinus) Bean (Phaseolus) Field bean Kidney bean Lima bean (dry) Navy bean	Flea Beetle Grasshoppers Aster Leafhopper Leafhoppers	0.025 to 0.10	1.6 to 6.4	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.  When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray:
Pinto bean Tepary bean Bean (Vigna) Adzuki bean Blackeyed pea Catjang Cowpea Crowder pea Moth bean Mung bean Rice bean Southern pea Urd bean Broad bean (dry) Chickpea Guar Lablab bean Lentil Pea (Piscum) Field pea Pigeon pea	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 Webworms Pea Weevil Pea Leaf Weevil Whitefly Imported cabbageworm Saltmarsh caterpillar Tobacco budworm Leafminer Banks Grass Mite Twospotted Spider Mite Carmine Mite Lygus Spp	0.08 to 0.10	5.12 to 6.4	Thorough coverage is essential to achieve control.  Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated) peas, or 0.3 active ingredient (19.2 ounces formulated) to beans per acre per season.  Do not apply within 14 days of harvest.  Do not make applications less than 7 days apart.

LEAFY BRASSICAS

CROP	PEST	PEST DOSAGE		REMARKS
	·	LBS AVA	FL OZ/A	
Broccoli Raab Bok Choy Collards Kale Mizuna Mustard Greens Mustard Spinach Rape Greens	Cutworms Corn Earworm Tobacco Budworm Saltmarsh Caterpillar Leafhoppers Flea Beetles Imported Cabbageworm Cucumber Beetles Aphids Whitefly Armyworms Loopers Stink Bugs Crickets Ground Beetles Thrips Wireworm (adults) Diamondback Moth Japanese Beetle (adult) Grasshoppers Aphids Banks Grass	0.033 to 0.10	2.1 to 6.4	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. When applying by air, 1-2 quarts of emulsified oil mabe substituted for 1-2 quarts of water in the finished spray.  Thorough coverage is essential to achieve control.  Do not apply more than 0.4 lb. active ingredient per acre per season.  Do not make applications less than 7 days apart.  Do not apply within 7 days of harvest
	Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite			

#### TUBEROUS AND CORM VEGETARIES

CROP	PEST DOSAGE		SAGE	REMARKS
		LBS AI/A	FL OZ/A	<b>-</b>
Potato Sweet potato Arracacha Arrowroot	Corn wireworm Tobacco wireworm	0.30 (at-plant)	19.2 (at-plant)	Capture may be applied as an in-furrow planting time treatment for the control of wireworms, rootworms and white grubs. Apply Capture at the rate of 0.3 pounds active per
Chinese artichoke Jerusalem artichoke Edible canna	Southern potato wireworm Japanese beetle grubs June beetle	0.05 to 0.15 (lay-by)	3.2 to 9.6 (lay-by)	acre as an in-furrow spray or T-band spray at planting time.
Cassava (bitter and sweet) Chayote (root) Chufa Dasheen (taro) Ginger Leren Tanier Turmer Yam bean True yam	Sweetpotato flea beetle Cucumber beetle Sweetpotato weevil Banded Cucumber beetle Black flea beetle Whitefringed beetle White grub Sugarcane beetle Rootworms	0.033 to 0.10 (foliar)	2.1 to 6.4 (foliar)	Capture may be applied as a lay-by treatment for the control of wireworms, rootworms and white grubs. Apply Capture to the drill area and cover with soil utilizing cultivation equipment set to throw soil to the drill area. Apply Capture as a banded spray over the row at a rate of 0.05-0.15 pounds active per acre (3.2 to 9.6 ounces formulated) in 10 gallons per acre of spray.  Capture may be applied as a foliar spray for the control of the adult life stages of flea beetles, click beetles (wireworms), cucumber beetles (rootworms), white fringed beetles and May/June beetles (white grubs). Apply Capture at the rate of 0.1 lbs active per acre (6.4 ounces formulated) in 10 gallons of spray by ground and 3 gallons of spray by air.  Do not make more than 2 foliar applications per season no sooner than 21 days apart.
				Do not apply more than 0.5 lb. active ingredient per acre per season, including soil application.
	1			Do not apply within 21 days of harvest

# **TOBACCO**

CROP	PEST	DOS	SAGE	REMARKS
		LBS AI/A	FL OZ/A	
Tobacco	Cutworm ssp. Tobacco Flea Beetle (larvae) White Grubs Wireworms Mole Crickets Armyworm spp. Stalkborers	0.0625 - 0.10	4.0 - 6.4	Pre-transplant soil applications: Apply 0.0625- 0.1 lb ai/A in a minimum of 10 gal/A to control soil pests. Use of suitable equipment to incorporate into top 4" of the soil is required to control below ground pests.  At-transplant water treatment application: Apply 0.0625- 0.1 lb ai/A in a water treatment application volume of 10-200 gal/A.
	Aphid spp. Armyworm spp. Flea Beetle (Adults) Chinch Bugs Stink Bugs Japanese Beetles Grasshoppers Cutworm spp. Tarnished Plant Bugs Green Bugs Thrips Whiteflies	0.04- 0.10	2.56 - 6.4	Foliar applications: Apply 0.04- 0.10 lb ai/A per foliar application up to, and including, layby in a minimum of 10 gal/A. Do not make more than 2 foliar applications per season.
	Spider mites . Lygus spp.	0.1	6.4	,

Do not apply more than 0.2 lb ai/A per season.

Do not apply later than layby.

May be tank mixed with Command, Spartan and other herbicides approved for tobacco use.

# LEAFY PETIOLE VEGETABLES

		DO	SAGE		
CROP	PEST	LB/AI/A	FLOZ/A	REMARKS	
Celery Cardoon Chinese celery Celtuce Florence fennel Rhubarb Swiss chard	Cutworms Corn Earworm Leafhoppers Flea Beetles Imported Cabbageworm Cucumber Beetles Aphids Armyworms Loopers Stink Bugs Crickets Ground Beetles Thrips Wireworm (adults) Diamondback Moth	0.033 - 0.10	2.1 - 6.4	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 apply more than 0.5 lb. active ingredient (1 quart) per acre per season.  Do not make applications less than 7 days apart.  Do not apply within 7 days of harvest.	
	Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus Spp.	0.08 - 0.10	5.12 - 6.4		

# **BUSHBERRIES**

		DOS		
CROP	PEST	LB/AI/A	FLOZ/A	REMARKS

Blueberry, highbush and lowbush Currant Elderberry Gooseberry Huckleberry	Blueberry maggot, Fruitworms, Plum curculio Leaf rollers Spanworm Leafhoppers Japanese beeltle Aphids	0.033 - 0.10	2.1 - 6.4	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 apply more than 0.5 lb. active ingredient (1 quart) per acre per season.  Do not make applications less than 7 days apart.  Do not apply within 1 day of harvest.
	Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus Spp.	0.08 - 0.10	5.12 - 6.4	

# Dealers Should Sell in Original Packages Only.

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**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.

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