

**6th Edition, 2022**

# **Guam Fruit and Vegetable Pesticide Guide**

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**University of Guam  
Cooperative Extension & Outreach  
College of Natural & Applied**

# Preface

The intention of this pesticide guide is to assist farmers in selecting the proper pesticides for individual problems. The guide will be updated As needed due to the constant revisions in labeling being made by chemical manufacturers and U.S. EPA. The guide will also be revised as new pests/pesticides are introduced into Guam.

**This pesticide guide is only intended to supplement pesticide labels! Growers should always read the label first before using any pesticide.**

Since the majority of pesticide registration is conducted by chemical manufacturers in the mainland United States, certain insect pests that attack plants on Guam are not found on product labels. To aid growers with insect pests not found on product labels, some suggested uses of pesticides are listed in this publication. According to federal law, it is permissible to use a particular pesticide as long as the pesticide is registered for use on that particular crop, the recommended label rate is not exceeded and spraying intervals and days to harvest are followed.

Most pesticides rates are listed in terms of pounds per acre (lbs./A) or pints per acre (pts/A). For many pesticide applicators this measurement is confusing. When preparing a 50-100 gallon tank of pesticide, please refer to Appendix A (Calibration) to determine how much pesticide should be mixed with a particular quantity of water. When mixing small amounts of pesticide, such as 1-3 gallons, please refer to Appendix B (Converting pints/acre to teaspoons/gallon). The appendices are located at the back of this guide. When mixing small amounts of powder formulations, it is very important to use an accurate weighing apparatus, such as an electronic Scales or balance, in order to get the correct amount. Powders vary in concentration depending on the amount of the active ingredient as well as inert ingredients that make up the formulation.

We have also included a section (Appendix E) that provides you with information on Private and Commercial Certification and Recertification for the application of restricted use pesticides.

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**OMRI Listed® \*\*** - The Organic Materials Review Institute (OMRI) or OMRI Listed® seal assures the suitability of products for certified organic production, handling, and processing.

Read label for restrictions

## Appendix A: Calibration

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### How to Calibrate a Hand Sprayer:

1. Measure and mark a small test area 18.5 feet X 18.5 feet square.  
(18.5 feet square) is 1/128 of an acre.
2. Determine the output of the hand sprayer by filling a known volume of plain water to the full mark of an empty hand sprayer.
3. After pressurizing the hand sprayer, determine how long it takes in seconds to spray the marked off area with water used in # 1.
4. Fill the sprayer up again with the known volume of plain water used in # 2.
5. At the same pressure used in #3, collect the spray from the nozzle using fluid ounces (fl. oz.) in a container, for the same length of time (seconds) needed to spray the measured area. The fluid ounces collected in the container will be equal to the gallons of spray you would have applied had you sprayed a full acre (GPA).

### Determine the Amount of Chemical to Add to the Tank

6. Divide the useful capacity of the tank (step 2) by the spray output, GPA (step 5) to determine the decimal fraction of an acre covered by each tank of spray solution.
7. Read the label to determine the volume of product recommended per acre.
8. Multiply the volume of product per acre (step 7) by the fractional acre covered per tank (step 6) to determine the amount of product to add per tank of spray.

### Example:

- John measured the volume of the spray tank and found it to be two gallons. (Step 1)
- He measured and marked a test area 18.5 x 18.5 feet. (Step 2)
- He sprayed the test area and found it took 32 seconds. (Step 3)
- He caught the output in a container for 32 seconds and measured 34 fluid ounces of water caught. This shows John was putting out the equivalent of 34 gallons per acre. (Step 4)
- Each tank will cover  $2 \text{ gallons} / 34 \text{ gallons / acre} = 0.059 \text{ acre}$  (Step 5)
- The product label recommends 1 quart (32 fl.-oz.) of herbicide per acre. (Step 6)
- The amount of product to add to a full spray tank is:  $32 \text{ fl.-oz. per acre} \times 0.059 \text{ acres per tank} = 1.9 \text{ fl.-oz. per spray tank.}$  (Step 7)

## APPENDIX A

This methodology works because the test area (18.5 feet square) is 1/128 of an acre. A U.S. gallon is 128 fluid ounces. The fluid ounces of spray required to treat the test area therefore is equivalent to the gallons of spray output that would be applied to a full acre, provided the operator maintains a consistent pattern of spray output and spray coverage.

You'll need to check from time to time to make sure your sprayer is delivering the same amount of spray you calibrated. If your sprayer is delivering too much, excessive residue can accumulate on plants and you can run the risk of burning your plants with chemical sprays. If your sprayer is not delivering enough, you probably won't kill the pests you're trying to control.

### **Changing Delivery Rate:**

There are 3 ways to change the delivery rate of your sprayer; the following methods can be used:

1. Change the pump pressure. (Lower pressure means less spray is being delivered)
2. Change the speed (e.g., tractor speed or how fast you walk) of your sprayer. Slower speed means more spray is being delivered.
3. Change the nozzles on the sprayer. The larger the hole in the nozzle, the greater the amount of spray being delivered.

Citation: *Calibrating hand-held Lancaster County Sprayers*. (n.d.). Retrieved October 27, 2022, from <https://lancaster.unl.edu/ag/factsheets/handspray.pdf>

## APPENDIX B

# Appendix B: Converting Pints/Acre to Teaspoons/Gallon

BASED ON 100 GALLONS OF WATER/ACRE

RECOMMENDED RATE per acre (A) for LIQUIDS	CONVERTS TO (amount/gallon)
5 2/6 fluid ounces	1/4 teaspoon
1/2 pint (8 fluid ounces)	1/2 teaspoon
10 2/6 fl oz	2/3 teaspoon
1 pint	1 teaspoon
1 1/2 pints	1 1/2 teaspoons
1 quart	2 teaspoons
2 1/2 pints	2 1/2 teaspoons
3 pints	1 Tablespoon = 3 teaspoons
1 2/3 quarts	3 1/4 teaspoons
3 1/2 pints	3 1/2 teaspoons
4 pints	4 teaspoons
4 1/2 pints	4 1/2 teaspoons
5 pints	5 teaspoons
5 1/2 pints	5 1/2 teaspoons
6 pints	2 Tablespoons = 6 teaspoons
4 quarts	8 teaspoons
8 1/4 pints	8 1/4 teaspoons

# Appendix C: Useful Conversion factors

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<b>Liquid</b>		
1 Tablespoon (T)	=	3 teaspoons (t)
1 fluid ounce (fl oz)	=	2 Tablespoons
1 cup (C)	=	8 ounces (oz)
1 pint (pts)	=	16 oz
1 quart (qt.)	=	4 C
4 C	=	2 pts
4 C	=	32 fl. oz
2 pts	=	32 fl. oz
1 gallon (gal)	=	3.785 liters (l)
1 gallon (gal)	=	128 fl. oz
3.785 liters (l)	=	128 fl. oz
1 quart	=	946 milliliters (ml)
1 fl oz	=	29.54 ml
1 liter	=	1.06 qt
1 liter	=	0.264 gal
<b>Dry</b>		
1 oz.	=	28.35 grams (g)
1 pound (lb)	=	453.59 g
1 pound (lb)	=	16 oz
453.59 g	=	16 oz
1 ton	=	2000 lb
1 hundredweight	=	100 lb
1 gram	=	0.0353 oz
1 kilogram (kg)	=	2.205 lbs.
1 kg	=	1000 g

## APPENDIX C

1 metric ton (MT)	=	1.1 tons
<b>Length</b>		
1 inch (in)	=	2.54 centimeters (cm)
1 Foot (Ft)	=	0.35 meters (m)
1 Foot (Ft)	=	0.35 meters (m)
1 yard (yd.)	=	3 ft
1 cm	=	0.394 in
1 m	=	3.28 ft
<b>Area</b>		
1 acre(A)	=	43,560 square feet(sq Ft)
1 A	=	0.405 hectare (ha)
1 hectare (ha)	=	2.47 acres
<b>Yield or Rate</b>		
1 lb/A	=	1.12 kg/ha
1 kg/ha	=	0.89 lb/A
<b>Temperature</b>		
$^{\circ}\text{F}$	=	$\frac{9}{5} \text{ }^{\circ}\text{C} + 32$
$^{\circ}\text{C}$	=	$\frac{5}{9} (\text{ }^{\circ}\text{F} - 32)$

## Appendix D: English, Chamorro, Filipino, and Scientific Names of Fruits and Vegetables

### VEGETABLES

English	Chamorro	Filipino	Scientific Name
Beans, KW (snap)	abuchuelas	sitaw	<i>Phaseolus vulgaris</i>
Beans, KW (string)	abuchuelas	sitaw	<i>Phaseolus vulgaris</i>
Beans, lima	chuchumeka	patani	<i>Phaseolus lunatus</i>
Bean, mung	-----	mungo	<i>Phaseolus aureus</i>
Beans, wing	sigidiyas	sigarilyas	<i>Psophocarpus tetragonolobus</i>
Beans, yardlong (asparagus)	frioles	sitaw	<i>Vigna unguiculata</i> subsp. <i>sesquipedalis</i>
Bitter melon (balsam pear)	atmagosu	ampalaya	<i>Momordica charantia</i>
Bok choy	-----	pechay	<i>Brassica campestris</i> ( <i>Chinensis</i> group)
Broccoli	brokoli	brokoli	<i>Brassica oleracea</i> var. <i>italica</i>
Cabbage	ripoya	repolyo	<i>Brassica oleracea</i> var. <i>capitata</i>
Cabbage, Chinese	nappa'	pechay Baguio	<i>Brassica chinensis</i>
Cantaloupe	-----	milon	<i>Cucumis melo</i> var. <i>reticulatus</i>
Carrot	yanahuria (kaRot)	kaRot	<i>Daucus carota</i>
Cassava	mendioka	kamoteng kahoy	<i>Manihot esculenta</i>
Cauliflower	kaliflaria	cauliflower	<i>Brassica oleracea</i> var. <i>botrytis</i>
Chayote	chaitoti	sayote	<i>Sechium edule</i>
Corn, Field	gualo', mai'es	mais	<i>Zea mays</i>

## APPENDIX D

Corn, Sweet	mai'es (mames)	mais	Zea mays
Cucumber	kiukamba (pipino ensalada)	pipino	Cucumis sativus
Eggplant	beningenas	talong	Solanum melongena
Garlic	-----	bawang	Allium sativum
Gourd	tagu'a	upo	Lagernaria spp., Cucurbita spp.
Gourd, bottle	-----	upo	Lagernaria seceraria
Gourd, snake	-----	patola	Trichosanthes cucumerina
Gourd, wax	kondot	patola	Benincasa hispida
Honeydew	-----	milon	Cucumis melo var. inordorus
Horseradish	-----	malunggay	Armoracia rusticana
Jicama	Yam bean	sinkamas	Pachyrhizus erosus
Leek	-----	sibuyas	Allium ampeloprasum
Lettuce, bibb	lettos (lechuga)	lechugas	Lactuca sativa
Lettuce, head	lettos (lechuga)	lechugas	Lactuca sativa
Lettuce, romaine	lettos (lechuga)	lechugas	Lactuca sativa
Luffa, angled	patola	patola	Luffa acutangula
Luffa, smooth	-----	patola	Luffa cylindrica
Melon, orient sweet	pepino	milon	Cucumis melo
Muskmelon	-----	Million	Cucumis melo var. reticulatus
Mustard	mostasa	mustasa	Brassica juncea
Okra	Okra	Okra	Hibiscus esculentus
Onions	siboyas	sibuyas	Allium cepa

## APPENDIX D

Onions, (Japanese bunching)	-----	sibuyas tagalog	Allium fistulosum
Parsley	pasle	kinchay	Petroselinum crispum
Peanut (groundnut)	-----	mani	Arachis hypogaea
Pechay	pechai	pechay	Brassica campestris (Pekinensis group)
Pepper, banana	donne' aga'	sili (puti)	Capsicum annuum
Pepper, bell (sweet)	donne' mames	pimiento	Capsicum annuum
Pepper, hot	donne' pika, donne' sali, donne' tio	sili (labuyo)	Capsicum frutescens
Pumpkin	kalamasa	kalabasa	Cucurbita moschata
Purslane	-----	ngalog	Portulaca oleracea
Radish	rades	labanos	Raphanus sativus
Radish, Chinese	daikon	labanos	Raphanus sativus var. longipinnatu
Squash	kalamasa	kalabasa	Cucurbita moschata, C. pepo, C. mixta, C. maxima
Squash, summer	-----	kalabasa	Cucurbita pepo
Squash, winter	-----	kalabasa	Cucurbita moschata, C. pepo, C. mixta, C. maxima
Swamp cabbage (water convolvulus)	kang kong	kang kong	Ipomoea aquatica
Sweet Potato	kamuti	kamote	Ipomoea batatas
Taro, Honolulu	sunin Honolulu	gabi (Honolulu)	Xanthosoma sagittifolium
Taro, red (dasheen)	sunin agaga'	gabi	Colocasia esculenta
Taro, swamp	-----	gabi	Cyrtosperma chamissonis

## APPENDIX D

Tomato	tumates	kamatis	<i>Lycopersicon esculentum</i>
Watermelon	-----	pakwan	<i>Citrullus lanatus</i>
Yam, red	dagu' (dagon aggag')	ube	<i>Dioscorea alata</i>
Yam, spiny	gaddo'	ube	<i>Dioscorea esculentum</i> Var. <i>fasciculata</i>
Yam, wild	nika	ube	<i>Dioscorea esculentum</i> var. <i>spinosa</i>
Zucchini	sukini	kalabasa	<i>Cucurbita pepo</i>

## FRUITS

English	Chamorro	Filipino	Scientific Name
Achote	achote	achuete	<i>Bixa orellana</i>
Avocado	alageta	abokado	<i>Persea americana</i>
Banana	aga'	saging	<i>Musa spp.</i>
Breadfruit, seedless	lemai	rimas	<i>Artocarpus altilis</i> var. <i>apyrena</i>
Breadfruit, seeded	dugdug	kamansi	<i>Artocarpus mariannensis</i>
Cacao	kakao	kakao	<i>Theobroma cacao</i>
Camachile	kamachile	kamachile	<i>Pithecellobium dulce</i>
Cashew	kasoi	kasuy	<i>Anacardium occidentales</i>
Coconut	niyok	niyog	<i>Cocos nucifera</i>
Cucumber tree	pikko', pickle	kamias	<i>Averrhoa bilimbi</i>
Custard apple	anonas	anonas	<i>Annona reticulata</i>
Eggfruit	-----	tiessa	<i>Pouteria campechiana</i>

## APPENDIX D

Grape, muscardine	ubas	ubas	Vitis Rotundifolia
Grapefruit	kahet ma'gas	suha, lukban	Citrus paradisi
Guava	abas	bayabas	Psidium guajava
Jackfruit	langka'	langka	Artocarpus heterophylla
Lemon, wild	lemonchina	lemon, kalamansi	Citrus limon
Lime	lemon riat	limon	Citrus aurantiifolia
Mango	mangga	mangga	Mangifera indica
Orange, sour	kahet (lemon)	kahel	Citrus aurantium
Papaya (pawpaw)	papaya	papaya	Carica papaya
Pineapple	pina	pina	Ananas comosus
Pomegranate	granada	granada	Punica granatum
Sapodilla	chiko, chickle	chico	Manilkara zapota
Soursop	laguanaha	guyabano	Annona muricata
Star apple	-----	kaimito	Chrysophyllum cainito
Starfruit (carambolla)	bilimbinis	balimbang	Averrhoa carambola
Sugarcane	tupo	tubo	Saccharum officinarum
Sweetsop	atis	atis	Annona squamosa
Tamarind	kalamendo'	sampalok	Tamarindus indica
Tangerine	lalangita	dalanghita	Citrus reticulata

# **Appendix E: Core (Pesticide Core Examination), Private and Commercial Pesticide Applicator Certification for Restricted Use Pesticide (RUP) and Recertification Guidelines**

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## **CORE**

All individuals seeking Private or Commercial Pesticide Applicator certification must pass the PESTICIDE CORE examination. A pesticide study manual entitled “Applying Pesticides Correctly: A Guide for Private and Commercial Applicators” (CORE GUIDE) contains all the information you will need to read and understand before you can successfully pass the PESTICIDE CORE examination. This pesticide manual contains 11 units. Each unit begins with learning objectives, terms to know, and at the end of each unit a set of questions that you need to understand and eventually be able to answer on your own. Also, P. L. 30-197 states that Core Training is required for any applicant who intends to use general use pesticides as part of carrying out his occupational duties. The Core Training consists of sixteen (16) hours of training.

The information contained in this pesticide manual provides both the Private and Commercial Applicator the basic knowledge needed to pass the PESTICIDE CORE examination. A score of 70% or above is considered a passing score. Upon request, the PESTICIDE CORE examination can be taken at the Guam Environmental Protection Agency (GEPA). Once you successfully pass the PESTICIDE CORE examination, two (2) options are available to you:

### **Option 1. Private Applicator for (RUP)**

Any individual that has successfully passed the PESTICIDE CORE examination with a score of 70% or above and completes the sixteen (16) hour training course can participate in a Private Pesticide workshop. P. L. 30-197 states that Category Training is required for all restricted use pesticide applicators. Satisfactory completion of Core Training is required as a prerequisite for Category Training. Category Training consists of sixteen hours (16) of a specialized type of training course and a closed-book exam. A pesticide study manual entitled “Applying Pesticides Correctly: A Supplement Guide for Private Applicators” (PRIVATE GUIDE) is available for this category. GEPA defines Private Applicators as “persons using or supervising restricted use pesticides for the purpose of producing any agricultural commodity on property owned or rented by him or his employer, or, if applied without compensation other than trading of personal services between producers of agricultural commodities on the property of another person. Upon request, the PRIVATE PESTICIDE examination can be taken at the Guam Environmental Protection Agency (GEPA).

## APPENDIX E

### **Option 2. Commercial Applicator for (RUP)**

Any individual that has successfully passed the PESTICIDE CORE examination with a score of 70% or above and completes the sixteen (16) hour training course can participate in a Commercial Pesticide workshop. P. L. 30-197 states that Category Training is required for all restricted use pesticide applicators. Satisfactory completion of Core Training is required as a prerequisite for Category Training. Category Training consists of sixteen hours (16) of a specialized type of training course and a closed-book exam. Guam EPA defines Commercial Applicators as “persons applying or supervising the use of restricted use pesticides in pest control work, demonstration work or similar pest control activity”. Upon request, the Commercial applicator examination can be taken at the Guam Environmental Protection Agency (GEPA).

#### **(RUP) - Applicator Categories:**

1. Agriculture Pest Control
  - 1.1. Plants
  - 1.2. Animals
2. Forest Pest Control
3. Ornamental and Turf Pest Control
4. Seed Treatment
5. Aquatic Pest Control
6. Right-of-way Pest Control
7. Industrial, Institutional, Structural and Health-ReLated Pest Control
  - 7.1. General and Structural Pest Control
  - 7.2. Structural and Commodity Fumigation
  - 7.3. Soil Fumigation
  - 7.4. Chlorine Gas
8. Public Health Pest Control
9. Regulatory Pest Control

### **RENEWAL of Core, Private, and Commercial Pesticide Applicator Cards**

All Certification Cards shall be renewed every three (3) years. Individuals may submit applications for renewal no more than thirty (30) days prior to the expiration date of their certification. Individuals intending to renew their certification must successfully pass the appropriate exam with a score of 70% or above.

Any questions concerning Guam's Pesticide laws please call the Guam Environmental Protection Agency at 671-300-4751/2/3.

**ALIAS 4F**

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Banana</b>	Aphids Leafhoppers Thrips	3.2 oz/A	0 days	14 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Maximum Alias 4F allowed per crop season when making foliar applications: 16 fluid ounces per acre</li> <li>*Apply as a broadcast or directed foliar spray to area as pest populations build</li> <li>*Two applications may be required</li> <li>*Read the label</li> </ul>				
<b>Brassica Leafy Vegetables:</b>  <b>Broccoli</b> <b>Cabbage</b> <b>Cauliflower</b> <b>Chinese Cabbage</b> <b>Mustard Greens</b>	Aphids Flea Beetles Leafhoppers Whiteflies	1.5 oz/A	7 days	5 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Maximum Alias 4F allowed per crop season when making foliar applications: 7.68 fluid ounces per acre</li> <li>*Apply as a broadcast or directed foliar spray to area as pest populations build</li> <li>*Two applications may be required</li> <li>*Not for use on crops grown for seed unless allowed by state-specific labeling</li> </ul>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Citrus:</b> <b>Grapefruit</b> <b>Lemon</b> <b>Lime</b> <b>Tangerine</b> <b>Orange</b>	Aphids Black Flies Flea Beetles Leafhoppers Leafminers Mealybugs Scales Sharpshooters Thrips (Suppressed) Whiteflies	4-8 oz/A	0	10 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Maximum Alias 4F allowed per crop season when making foliar applications: 16 fluid ounces per acre</li> <li>*Apply as a broadcast or directed foliar spray to area as pest populations build</li> <li>*Two applications may be required</li> <li>*Do not apply during bloom or within 10 days prior to bloom or when bees are foraging</li> </ul>				
<b>Cucurbits:</b> <b>(SOIL TREATMENT)</b>  <b>Bitter melon</b> <b>Cantaloupe</b> <b>Gourd</b> <b>Honeydew</b> <b>Muskmelon</b> <b>Pumpkin</b> <b>Squash</b> <b>(Summer, Winter)</b> <b>Watermelon</b>	Aphids Cucumber Beetles Leafhoppers Thrips Whiteflies	8-12 oz/A	21	See label
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Maximum Alias 4F allowed per crop season when making foliar applications: 12 fluid ounces per acre</li> <li>*Not for use on crops grown for seed unless allowed by state-specific labeling</li> <li>*Read the label for application methods</li> </ul>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Fruiting Vegetables:</b>  <b>Eggplant</b> <b>Okra</b> <b>Pepper (Bell, Chili, Sweet)</b> <b>Tomato</b> <b>Pepino</b>	Aphids Colorado Potato Beetle Leafhoppers Whiteflies	1.5-2.4 oz/A	0 days	5 days
	<b>Specific Directions:</b> *Maximum Alias 4F allowed per crop season when making foliar applications: 7.68 fluid ounces per acre *Not for use on crops grown for seed unless allowed by state-specific labeling *Apply as a broadcast or directed foliar spray to area as pest populations build *Two applications may be required *Not for use on crops grown for seed unless allowed by state-specific labeling			
<b>Leafy Vegetables:</b>  <b>Lettuce (Head, Leaf)</b> <b>Parsley</b>	Aphids Flea Beetles Leafhoppers Whiteflies	1.5 oz/A	7 days	5 days
	<b>Specific Directions:</b> *Maximum Alias 4F allowed per crop season when making foliar applications: 7.6 fluid ounces per acre *Not for use on crops grown for seed unless allowed by the state *Apply as a broadcast or directed foliar spray to area as pest populations build *Two applications may be required			
<b>Legume Vegetables:</b>  <b>Beans</b>	Aphids Leafhoppers Whiteflies	1.4 oz/A	7 days	See label
	<b>Specific Directions:</b> *Maximum Alias 4F allowed per crop season when making foliar applications: 4.2 fluid ounces per acre *Not for use on crops grown for seed unless allowed by the state *Apply as a broadcast or directed foliar spray to area as pest populations build *Two applications may be required			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Peanut (SOIL TREATMENT)</b>	Aphids Leafhoppers Thrips (Suppressed) Whiteflies	8-12 oz/A	14 days	See label
	<b>Specific Directions:</b> *Maximum Alias 4F allowed per crop season when making soil applications: 12 fluid ounces per acre *Prior to applying Alias 4F to Peanut, consult with the State, Cooperative Extension Service, or a AFAMA representative for recommendations *Read the label for application methods			
<b>Root Vegetables:</b>  <b>Carrot</b> <b>Parsley (Turnip- Rooted)</b> <b>Radish</b>	Aphids Flea Beetles Leafhoppers Whiteflies	1.4 oz/A	7 days	5 days
	<b>Specific Directions:</b> *Maximum Alias 4F allowed per crop season when making foliar applications: 1.4 fluid ounces per acre on Radish, 4.2 fluid ounces on other crops *Maximum Alias 4F application(s) per crop season: 1 on radish, 3 on all other crops *Not for use on crops grown for seed unless allowed by the state *Apply as a broadcast or directed foliar spray to area as pest populations build *Two applications may be required			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Tropical Fruit:</b> <b>Avocado</b> <b>Guava</b> <b>Mango</b> <b>Papaya</b>	Aphids Leafhoppers Mealybugs Scales (Suppressed) Thrips Whiteflies	3.2 oz/A	7 days	10 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Maximum Alias 4F allowed per crop season when making foliar applications: 16 fluid ounces per acre</li> <li>*Do not apply pre-bloom or during bloom or when bees are foraging</li> <li>*Apply as a broadcast or directed foliar spray to area as pest populations build</li> <li>*Two applications may be required</li> </ul>				
<b>Tuberous and Corn Vegetables:</b> <b>Sweet Potato</b> <b>Yam</b>	Aphids Cucumber Beetles Leafhoppers Whiteflies	1.4 oz/A	7 days	5 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Maximum Alias 4F allowed per crop season when making foliar applications: 1.4 fluid ounces per acre for Radish, 4.2 fluid ounces on all other crops</li> <li>*Not for use on crops grown for seed unless allowed by state-specific labeling</li> <li>*Read the label for application methods</li> </ul>				

# AMDRO FIRE ANT BAIT GRANUALS

CROP	PEST(S) CONTROLLED	
<b>Tropical Fruits and Nuts:</b>	Bighead ants Fire ants Little fire ants	See label
<b>Avocado Banana Breadfruit Cashew Guava Mango Papaya Star Apple</b>	<b>Special Directions:</b> *Amdro may be applied in Tropical Fruits and nut orchards when applied in bait stations *Do not apply Amaro directly to the ground around these crops *Do not apply directly to any part of the plant *When applying for control of little fire ants, apply Amaro in orchards only during non-fruiting periods *Remove bait stations from orchard after flowering but before fruiting structures appear on crop plants *Do not apply Amaro in orchards when fruits are presents on crop plants *Read label for bait station directions	

**BRAVO 720**

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL				
<b>Beans, Dry</b>	Anthracnose Cercospora Leaf Spot	1.375-2 pts/A	14	7-10 days				
<b>Specific Directions:</b>								
<ul style="list-style-type: none"> <li>*Use in sufficient water to obtain adequate coverage</li> <li>*Begin applications during Early bloom stage</li> <li>*For use only on beans harvested dry with pods removed</li> <li>*Do not apply more than 4 times per growing season</li> <li>*Do not allow livestock to graze in treated areas or feed treated plant parts to livestock</li> </ul>								
<b>Beans, Snap</b>	Botrytis Blight (Gray mold)	3 pts/A	7 days	7 days				
<b>Specific Directions:</b>								
<ul style="list-style-type: none"> <li>*Use in sufficient water to obtain adequate coverage</li> <li>*Begin applications during Early bloom stage or when disease first threatens</li> <li>*Do not graze treated areas or feed treated plant parts to livestock</li> </ul>								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Rust</td> <td style="width: 25%;">1.375-3 pts/A</td> <td style="width: 25%;">7 days</td> <td style="width: 25%;">7 days</td> </tr> </table>					Rust	1.375-3 pts/A	7 days	7 days
Rust	1.375-3 pts/A	7 days	7 days					
<b>Specific Directions:</b>								
<ul style="list-style-type: none"> <li>*Use in sufficient water to obtain adequate coverage</li> <li>*Begin applications during Early bloom stage or when disease first threatens</li> <li>*Do not graze treated areas or feed treated plant parts to livestock</li> </ul>								
<b>Broccoli</b> <b>Cabbage</b> <b>Cauliflower</b> <b>Chinese Cabbage</b>	Alternaria Leaf Spot	1.5 pts/A	7 days	7-10 days				
<b>Specific Directions:</b>								
<ul style="list-style-type: none"> <li>*Use in sufficient water to obtain adequate coverage</li> <li>*Begin applications after transplants are set in field, or shortly after emergence of field-seeded crop, or when conditions favor disease development</li> </ul>								

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Carrot</b>	Cercospora (Early) Blight Alternaria (Late) Blight	1.5-2 pts/A	0	7-10 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Use in sufficient water to obtain adequate coverage</li> <li>*Start applications when disease threatens</li> <li>*Bravo 720 may be applied through sprinkler irrigation equipment</li> </ul>				
<b>Corn, Sweet</b>	Helminthosporium Leaf Blight Rust	0.75-2 pts/A	14 days	4-7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Use in sufficient water to obtain adequate coverage</li> <li>*Begin applications when conditions favor disease development</li> <li>*Under severe disease conditions, use 1.5-2 pts/A</li> <li>*Do not apply to sweet corn to be processed</li> <li>*Do not allow livestock to graze in treated fields</li> <li>*Do not ensile treated corn or use as livestock forage</li> </ul>				
<b>Cucurbits:</b> <b>Cantaloupe</b> <b>Cucumber</b> <b>Honeydew</b> <b>Muskmelon</b> <b>Pumpkin</b> <b>Squash, Summer</b> <b>Squash, Winter</b> <b>Watermelon</b>	Anthracnose Target Spot	1.5-2 pts/A	0 days	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Use in sufficient water to obtain adequate coverage</li> <li>*Begin applications when plants are in true Leaf stage or when conditions are favorable for disease development</li> <li>*Under severe disease conditions, shorten spray interval</li> <li>*Bravo 720 may be applied through sprinkler irrigation equipment</li> <li><b>*Watermelon use:</b> Spraying mature watermelons may result in sunburn of the upper surface of the fruit. Do not apply Bravo 720 to watermelons when any of the following conditions are present: (1) intense heat and sunlight, (2) drought conditions, (3) poor vine canopy, (4) other crop and environmental conditions which may be conducive to increased natural sunburn</li> <li>*Do not combine Bravo 720 with anything excepts water for application to watermelons unless your prior use has shown the combination to be non-injurious to watermelons under your conditions of use</li> </ul>				

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Cercospora Leaf Spot Gummy Stem Blight Alternaria Leaf Blight Powdery Mildew Scab (No Scab on Cucumber)	2-3 pts/A	0 days	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Use in sufficient water to obtain adequate coverage</li> <li>*Begin applications when plants are in true Leaf stage or when conditions are favorable for disease development</li> <li>*Under severe disease conditions, shorten spray interval</li> <li>*Bravo 720 may be applied through sprinkler irrigation equipment</li> <li><b>*Watermelon use:</b> Spraying mature watermelons may result in sunburn of the upper surface of the fruit. Do not apply Bravo 720 to watermelons when any of the following conditions are present: (1) intense heat and sunlight, (2) drought conditions, (3) poor vine canopy, (4) other crop and environmental conditions which may be conducive to increased natural sunburn</li> <li>*Do not combine Bravo 720 with anything excepts water for application to watermelons unless your prior use has shown the combination to be non-injurious to watermelons under your conditions of use</li> </ul>				
<b>Garlic Green Onion</b>	Botrytis Blight (Gray mold)	1.5-3 pts/A	7 (garlic) 14 (green onion)	7-10 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Use in sufficient water to obtain thorough coverage of tops.</li> <li>*Begin applications prior to favorable infection periods, and repeat for as long as conditions favor disease</li> <li>*Use the high rate and a 7 day schedule of applications when heavy dew or rain persist</li> <li>*Do not apply more than 3 times per season in green onions.</li> <li>*If additional disease control is needed before harvest, use another registered fungicide</li> </ul>				

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
Papaya	Anthracnose Stem End Rot	1.5-3 pts/A	0 days	14 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Use in sufficient water to obtain adequate coverage of fruit and leaves</li> <li>*Begin treatment when conditions favor development of disease and continue treatments until weather conditions no longer favor disease development</li> <li>*Do not graze livestock in treated area or feed processing by-products to livestock</li> </ul>				
Peanut	Early Leaf Spot (Cercospora) Late Leaf Spot (Cercosporidium)	1-1.5 pts/A	14 days	10-14 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Apply in sufficient water for adequate coverage when Leaf wetness first occurs or 30-40 days after planting</li> <li>*When conditions favor Late Leaf Spot or when rust occur, apply 1.5 pts/A at 10 day intervals for the remainder of the season</li> <li>*Do not allow livestock to graze in treated areas</li> <li>*Do not feed hay or threshings from treated fields to livestock</li> <li>*Bravo 720 may be applied through sprinkler irrigation equipment</li> </ul>				
	Rust	1.5 pts/A	14 days	10-14 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Apply in sufficient water for adequate coverage when Leaf wetness first occurs or 30-40 days after planting</li> <li>*When conditions favor Late Leaf Spot or when rust occur, apply 1.5 pts/A at 10 day intervals for the remainder of the season</li> <li>*Do not allow livestock to graze in treated areas</li> <li>*Do not feed hay or threshings from treated fields to livestock</li> <li>*Bravo 720 may be applied through sprinkler irrigation equipment</li> </ul>				

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Tomato</b>	<b>Foliage:</b> Early Blight Botrytis Blight (Gray mold) Gray Leaf Spot Septoria Leaf Spot Target Spot	2-2.75 pts/A	0 days	7-10 days
<b>Specific Directions:</b> <ul style="list-style-type: none"> <li>*Read the label</li> <li>*Apply in sufficient water to obtain adequate coverage</li> <li>*Begin applications when dew or rain occur and disease threatens</li> <li>*Use the highest rate and shortest interval specified when disease conditions are severe</li> <li>*Bravo 720 may be combined in the spray tank with EPA-registered pesticide products that claim copper as the active ingredient and are labeled for control of bacterial diseases of tomatoes. Check the copper manufacturer's label for specific instructions, precautions, and limitations prior to mixing with Bravo 500</li> <li>*Bravo 720 may be applied through sprinkler irrigation equipment</li> </ul>				

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	<b>Fruit:</b> Anthracnose Alternaria Fruit Rot (Black mold) Botrytis Blight (Gray mold) Rhizoctonia Fruit Rot	2-2.75 pts/A	0 days	7-14 days (beginning at fruit set)
<b>Specific Directions:</b> <ul style="list-style-type: none"> <li>*Read the label</li> <li>*Apply in sufficient water to obtain adequate coverage</li> <li>*Begin applications when dew or rain occur and disease threatens</li> <li>*Use the highest rate and shortest interval specified when disease conditions are severe</li> <li>*Bravo 720 may be combined in the spray tank with EPA-registered pesticide products that claim copper as the active ingredient and are labeled for control of bacterial diseases of tomatoes. Check the copper manufacturer's label for specific instructions, precautions, and limitations prior to mixing with Bravo 500</li> <li>*Bravo 720 may be applied through sprinkler irrigation equipment</li> </ul>				

## **CROP OIL CONCENTRATE**

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Consult your agricultural extension agent for information on pesticide use for this crop.

# DIBROM 8 EMULSIVE

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Beans</b>	Aphids Leafhoppers Loopers Leafminers Spider Mites	1 pts/A	1 day	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Begin application at first sign of insects</li> <li>*Do not feed treated vines or hay</li> <li>*Do not make more than 5 applications per season</li> </ul>				
	Large Loopers Stink Bugs	1.5 pts/A	1 day	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Begin application at first sign of insects</li> <li>*Do not feed treated vines or hay</li> <li>*Do not make more than 5 applications per season</li> </ul>				
<b>Broccoli</b> <b>Cabbage</b> <b>Chinese Cabbage</b> <b>Cauliflower</b>	Aphids Cabbageworm Diamondback Caterpillars	1 pt/A	1 day	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply when temperature is over 90°F</li> </ul>				
<b>Cantaloupe</b> <b>Muskmelon</b>	Aphids Armyworms Loopers Leafhoppers Leafminers	1 pts/A (minimum of 30 gals. of water)	1 day	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply when temperature is over 90°F</li> <li>*Do not apply more than 2 pts of product per acre per season</li> </ul>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Citrus:</b> <b>Grapefruit</b> <b>Lemon</b> <b>Orange</b> <b>Tangerine</b>	Aphids Mites Leafrollers Scale Crawlers Thrips	1-2 pts/A use 100-500 gals. of water	7 days	An Needed
<b>Specific Directions:</b>				
	<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Apply when pests first appear</li> </ul>			
<b>Eggplant</b> <b>Pepper</b> <b>(Bell, Hot)</b>	Aphids Beetles Leafminers Flea Beetles Spider Mites	1-2 pts/A (minimum of 20 gals. of water)	1 day	7 days
<b>Specific Directions:</b>				
	<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply when temperature is over 90°F</li> <li>*Do not apply more than 6 pts of product per acre per season</li> <li>*Do not make more than 5 applications per season</li> </ul>			
<b>Summer Squash</b>	Aphids Armyworms Cucumber Beetles Spider Mites Loopers Thrips	1-2 pts/A (minimum of 20 gals. of water)	1 day	7 days
<b>Specific Directions:</b>				
	<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply when temperature is over 90°F</li> <li>*Do not apply more than 6 pts of product per acre per season</li> </ul>			

## DIBROM 8 EMULSIVE

Insecticide

\*Restricted Use Pesticide\*

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Leafminers	1.5-2 pts/A (minimum of 20 gals. of water)	1 day	7 days

**Specific Directions:**

- \*Read the label
- \*Do not apply when temperature is over 90°F
- \*Do not apply more than 6 pts of product per acre per season
- \*Do not make more than 5 applications per season

**DIMETHOATE 4 EC**

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Beans (Green, Snap, Dry)</b>	Aphids Grasshoppers Beetles Leafhoppers Leafminers Mites Plant Bugs	0.5-1 pts/A	7 days	As needed
<b>Specific Directions:</b>				
*Do not feed treated vines *This pesticide is highly toxic to bees, do not apply if bees are visiting the areas to be treated when crop or weeds are in bloom				
<b>Broccoli Cauliflower</b>	Aphids	0.5-1 pts/A	7 days	As needed
<b>Specific Directions:</b>				
*Read the label				
<b>Cabbage</b>	Aphids	0.5-1 pts/A	3 days	As needed
<b>Specific Directions:</b>				
*Read the label				
<b>Citrus:</b>	Aphids	0.5-1 pts per 100 gals. water	15 days	As needed
<b>Specific Directions:</b>				
*Apply as an outside coverage spray				
<b>Grapefruit Lemon Orange Tangerine</b>	Mites	0.5-1 pts per 100 gals. water	15 days	An Needed
<b>Specific Directions:</b>				
*Apply as an outside coverage spray				
<b>Scales</b>				
1-1.5 pts per 100 gals. water				
<b>Specific Directions:</b>				
*Apply as a thorough coverage spray				

## DIMETHOATE 4 EC

Insecticide/Miticide  
General Use Pesticide

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Thrips	0.5-1 pts per 100 gals. water	15 days	An Needed
<b>Specific Directions:</b>				
*Apply as a mist spray				
	Whiteflies	1 pts per 100 gals. water	15 days	An Needed
<b>Specific Directions:</b>				
*Apply as a thorough distribution coverage spray				
<b>Field Corn</b>	Aphids Mites Beetles Caterpillars Spider Mites	0.67-1 pts/A	14 days	As needed
<b>Specific Directions:</b>				
*Make no more than 3 applications per year				
*Do not feed or graze within 14 days of last application				
*Do not apply to com during the pollen-shed period				
	Grasshoppers	1 pts/A in 20-40 gals of water	14 days	As needed
<b>Specific Directions:</b>				
*Make no more than 3 applications per year				
*Do not feed or graze within 14 days of last application				
*Do not apply to com during the pollen-shed period				
<b>Melons:</b> <b>Cantaloupe</b> <b>Honeydew</b> <b>Muskmelon</b> <b>Pepino</b>	Aphids Leafhoppers Leafminers	1 pts/A	3 days	As needed
<b>Specific Directions:</b>				
*Read the label				
<b>Lettuce, Head</b>	Aphids Leafhoppers Leafminers	0.5 pts/A	7 days	As needed
<b>Specific Directions:</b>				
*Read the label				

## DIMETHOATE 4 EC

Insecticide/Miticide  
General Use Pesticide

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Lettuce, Leaf Mustard Greens</b>	Aphids Leafhoppers Leafminers	0.5 pts/A	7 days	As needed
	<b>Specific Directions:</b> *Read the label			
<b>Pepper</b>	Aphids Leafminers	0.5-0.67 pts/A	0 days	As needed
	<b>Specific Directions:</b> *Read the label			
<b>Tomato</b>	Aphids Leafhoppers Leafminers	0.5-1 pts/A	7 days	As needed
	<b>Specific Directions:</b> *Where cabbage worms and cabbage Loopers are a problem, the above rates are compatible with endosulfan, malathion or parathion. Use in accordance with the manufacturer's directions for control of these insects			
<b>Watermelon</b>	Aphids Leafminers	0.5-1 pts/A	3 days	As needed
	<b>Specific Directions:</b> *Read the label			

**DIPEL DF \*\***

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Avocado</b>	Caterpillars Leafrollers Loopers	0.5-2 lb/A	0 days	As needed
	<b>Special Directions:</b> *Read the label			
<b>Banana</b>	Banana skipper	0.5-1 lb/A	0 days	As needed
	<b>Special Directions:</b> *Read the label			
<b>Beans</b>	Armyworms	1-2 lbs./A	0 days	As needed
	<b>Special Directions:</b> *DiPel DF may be used to control small Armyworms and/or podworms (1st and 2nd instar) when populations are light and full coverage sprays are applied *If mature worms or heavy populations are present a contact insecticide should be used to enhance control			
	Loopers Caterpillars	0.5-1 lb/A	0 days	As needed
	<b>Special Directions:</b> *Read the label			
<b>Bitter melon</b>	Armyworms	1-2 lbs./A	0 days	As needed
<b>Cantaloupe</b>				
<b>Cucumber</b>				
<b>Gourds</b>				
<b>Honeydew</b>				
<b>Kondot</b>				
<b>Muskmelon</b>				
<b>Pepino</b>				
<b>Pumpkin</b>				
<b>Squash, Summer</b>				
<b>Squash, Winter</b>				
<b>Watermelon</b>				
	<b>Specific Directions:</b> *Read the label			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
Carrot	Armyworms	1-2 lbs./A	0 days	As needed
<b>Special Directions:</b>				
*DiPel DF may be used to control small Armyworms and/or podworms (1st and 2nd instar) when populations are light and full coverage sprays are applied *If mature worms or heavy populations are present a contact insecticide should be used to enhance control				
Citrus:  Grapefruit Lemon Lime Orange Tangerine	Caterpillars Cutworms Diamondback Moths Leafrollers Loopers	0.5-1 lb/A	0 days	As needed
	<b>Special Directions:</b>			
	*Read the label			
Citrus:  Grapefruit Lemon Lime Orange Tangerine	Cutworms	0.5-2 lbs./A	0 days	As needed
<b>Special Directions:</b>				
*Apply to light to moderate populations of newly-hatched worms *Read the label				
Corn	Leafrollers	0.5-2 lbs./A	0 days	As needed
	<b>Special Directions:</b>			
*DiPel DF may be used to control small Armyworms and/or podworms (1st and 2nd instar) when populations are light and full coverage sprays are applied *If mature worms or heavy populations are present a contact insecticide should be used to enhance control				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
Eggplant Pepper, Bell Pepper, Hot Tomato	Armyworms	1-2 lbs./A	0 days	As needed
<b>Special Directions:</b>				
<p>*DiPel DF may be used to control small Armyworms and/or podworms (1st and 2nd instar) when populations are light and full coverage sprays are applied</p> <p>*If mature worms or heavy populations are present a contact insecticide should be used to enhance control</p>				
	Caterpillars Cutworms Loopers	1-2 lbs./A	0 days	As needed
<b>Special Directions:</b>				
<p>*Read the label</p>				
Garlic Green onion	Armyworms	1-2 lbs./A	0 days	As needed
<b>Special Directions:</b>				
<p>*DiPel DF may be used to control small Armyworms and/or podworms (1st and 2nd instar) when populations are light and full coverage sprays are applied</p> <p>*If mature worms or heavy populations are present a contact insecticide should be used to enhance control</p>				
	Caterpillars Cutworms Diamondback Moths Leafrollers Loopers	0.5-1 lb/A	0 days	As needed
<b>Specific Directions:</b>				
<p>*Read the label</p>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Lettuce (Head, Leaf)</b> <b>Broccoli</b> <b>Cabbage</b> <b>Mustard Greens</b> <b>Cauliflower</b> <b>Chinese Cabbage</b> <b>Parsley</b>	Armyworms	1-2 lbs./A	0 days	As needed
<b>Special Directions:</b>				
*DiPel DF may be used to control small Armyworms and/or podworms (1st and 2nd instar) when populations are light and full coverage sprays are applied				
*If mature worms or heavy populations are present a contact insecticide should be used to enhance control				
	Caterpillars Diamondback Moths Cutworms Leafrollers Loopers	0.5-1 lb/A	0 days	As needed
<b>Specific Directions:</b>				
*Read the label				
<b>Peanut</b>	Caterpillars Loopers	0.5-1 lb/A	0 days	As needed
<b>Special Directions:</b>				
*Read the label				

## For Smaller Spray Volume

If Rate Is	Use This Amount Per Gallon (wt)	
1/4 lb./acre or 100 gals.	1/2 tsp.	(0.04 oz)
1/2 lb./acre or 100 gals.	1 tsp.	(0.08 oz)
1 lb./acre or 100 gals.	2 tsps.	(0.16 oz)
2 lb./acre or 100 gals.	4 tsps.	(0.32 oz)

# D.Z.N. DIAZINON AG500

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Beans (Pole, Snap)</b>	Cutworms	2-4 qts/A	See label	See label
<b>Specific Directions:</b>				
*Broadcast just before planting and immediately incorporate into the soil				
	Aphids	1-1.5 pts/A	7 days	5 days
	Beetles			
	Leafminers			
<b>Specific Directions:</b>				
*Apply as insects occur				
*Do not make more than 3 applications per season				
*Wait 4 days following treatment if forage is to be cut for hay				
*Diazinon will not control organophosphate-resistant Leafminers				
*To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom				
	Cucumber	0.75 pts/A	7 days	5 days
	Beetles			
<b>Specific Directions:</b>				
*Apply as insects occur				
*Do not make more than 3 applications per season				
*Wait 4 days following treatment if forage is to be cut for hay				
*Make Cucumber Beetles application in 100 gals. of water per acre				
*To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom				
<b>Broccoli</b>	Cutworms	2-4 qts/A	See label	See label
<b>Specific Directions:</b>				
*Broadcast just before planting and immediately incorporate into the soil				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Aphids Diamondback Moths Caterpillars Leafminers	0.5-1 pts/A	7 days	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Apply as insects occur</li> <li>*Diazinon will not control organophosphate-resistant Leafminers</li> <li>*Do not make more than 5 applications per season</li> </ul>				
<b>Cabbage</b>	Cutworms	2-4 qts/A	See label	See label
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Broadcast just before planting and immediately incorporate into the soil</li> </ul>				
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Apply as insects occur</li> <li>*Diazinon will not control organophosphate-resistant Leafminers</li> <li>*Do not make more than 5 applications per season</li> </ul>				
<b>Cantaloupe</b> <b>Honeydew</b> <b>Muskmelon</b> <b>Watermelon</b>	Cutworms	2-4 qts/A	See label	See label
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Broadcast just before planting and immediately incorporate into the soil</li> </ul>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Aphids Cucumber Beetles Leafhoppers Leafminers Melonworms Spider Mites Thrips	0.5-1.5 pts/A	3 days	7 days
<b>Specific Directions:</b>				
*Apply as insects occur				
*Diazinon will not control organophosphate-resistant Leafminers				
*Do not make more than 5 applications per season				
<b>Carrot</b>	Cutworms	2-4 qts/A	See label	See label
	<b>Specific Directions:</b>			
	*Broadcast just before planting and immediately incorporate into the soil			
<b>Cauliflower</b>	Aphids	1 pts/A	14 days	7 days
	<b>Specific Directions:</b>			
	*Apply as insects occur			
*Do not make more than 5 applications per season				
	Cutworms	2-4 qts/A	See label	See label
	Specific Directions:			
	*Broadcast just before planting and immediately incorporate into the soil			
	Aphids Diamondback Moths Caterpillars Leafminers	0.5-1 pts/A	5 days	7 days
	<b>Specific Directions:</b>			
	*Apply as insects occur			
*Diazinon will not control organophosphate-resistant Leafminers				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL					
<b>Chinese Cabbage</b>	Aphids Diamondback Moths Caterpillars Leafminers	0.5-1 pts/A	10 days	7 days					
<b>Specific Directions:</b>									
<ul style="list-style-type: none"> <li>*Apply as insects occur</li> <li>*Diazinon will not control organophosphate-resistant Leafminers</li> <li>*Do not make more than 5 applications per season</li> </ul>									
<b>Cucumber</b>	Cutworms	2-4 qts/A	See label	See label					
<b>Specific Directions:</b>									
<ul style="list-style-type: none"> <li>*Broadcast just before planting and immediately incorporate into the soil</li> </ul>									
<table border="1"> <tr> <td>Aphids Diamondback Moths Caterpillars Leafminers</td><td>1 pts/A</td><td>7 days</td><td>7 days</td><td></td></tr> </table>					Aphids Diamondback Moths Caterpillars Leafminers	1 pts/A	7 days	7 days	
Aphids Diamondback Moths Caterpillars Leafminers	1 pts/A	7 days	7 days						
<b>Specific Directions:</b>									
<ul style="list-style-type: none"> <li>*Apply as insects occur</li> <li>*Diazinon will not control organophosphate-resistant Leafminers</li> <li>*Do not make more than 5 applications per season</li> </ul>									
<b>Lettuce (Head, Leaf)</b>	Cutworms	2-4 qts/A	See label	See label					
<b>Specific Directions:</b>									
<ul style="list-style-type: none"> <li>*Broadcast just before planting and immediately incorporate into the soil</li> </ul>									
<table border="1"> <tr> <td>Aphids Leafminers</td><td>0.5-1 pts/A</td><td>14 days</td><td>7 days</td><td></td></tr> </table>					Aphids Leafminers	0.5-1 pts/A	14 days	7 days	
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<b>Specific Directions:</b>									
<ul style="list-style-type: none"> <li>*Apply as insects occur</li> <li>*Diazinon will not control organophosphate-resistant Leafminers</li> <li>*Do not make more than 5 applications per season</li> </ul>									
<b>Mustard Greens</b>	Cutworms	2-4 qts/A	See label	See label					
<b>Specific Directions:</b>									
<ul style="list-style-type: none"> <li>*Broadcast just before planting and immediately incorporate into the soil</li> </ul>									

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Aphids Diamondback Moths Caterpillars Leafminers	0.5-1 pts/A	10 days	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Apply as insects occur</li> <li>*Diazinon will not control organophosphate-resistant Leafminers</li> <li>*Do not make more than 5 applications per season</li> </ul>				
<b>Parsley</b>	Cutworms	2-4 qts/A	See label	See label
	<b>Specific Directions:</b> <ul style="list-style-type: none"> <li>*Broadcast just before planting and immediately incorporate into the soil</li> </ul>			
<b>Pepper (Bell, Hot)</b>	Cutworms	2-4 qts/A	See label	See label
	<b>Specific Directions:</b> <ul style="list-style-type: none"> <li>*Broadcast just before planting and immediately incorporate into the soil</li> </ul>			
	Aphids Leafminers	0.5-1 pts/A	5 days	7 days
	<b>Specific Directions:</b> <ul style="list-style-type: none"> <li>*Apply as insects occur.</li> <li>*Diazinon will not control organophosphate-resistant Leafminers</li> <li>*Do not make more than 5 applications per season</li> </ul>			
<b>Radish</b>	Cutworms	2-4 qts/A	See label	See label
	<b>Specific Directions:</b> <ul style="list-style-type: none"> <li>*Broadcast just before planting and immediately incorporate into the soil</li> </ul>			
	Aphids Flea Beetles Leafminers	0.5-1 pts/A	14 days	7 days
	<b>Specific Directions:</b> <ul style="list-style-type: none"> <li>*Apply as insects occur</li> <li>*Diazinon will not control organophosphate-resistant Leafminers</li> <li>*Do not make more than 5 applications per season</li> </ul>			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Squash, Summer</b>	Cutworms	2-4 qts/A	See label	See label
<b>Specific Directions:</b>				
*Broadcast just before planting and immediately incorporate into the soil				
	Aphids	0.5-1.5 pts/A	7 days	7 days
	Cucumber			
	Beetles			
	Leafhoppers			
	Leafminers			
	Melonworms			
	Spider Mites			
	Thrips			
<b>Specific Directions:</b>				
*Apply as insects occur				
*Diazinon will not control organophosphate-resistant Leafminers				
*Do not make more than 5 applications per season				
<b>Squash, Winter</b>	Cutworms	2-4 qts/A	See label	See label
<b>Specific Directions:</b>				
*Broadcast just before planting and immediately incorporate into the soil				
	Aphids	0.5-1.5 pts/A	3 days	7 days
	Cucumber			
	Beetles			
	Leafhoppers			
	Leafminers			
	Melonworms			
	Spider Mites			
	Thrips			
<b>Specific Directions:</b>				
*Apply as insects occur				
*Diazinon will not control organophosphate-resistant Leafminers				
*Do not make more than 5 applications per season				
<b>Sweet Potato</b>	Flea Beetles	3-4 qts/A	See label	See label
<b>Specific Directions:</b>				
*Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
Sweet Corn	Cutworms	2-4 qts/A	See label	See label
	<b>Specific Directions:</b> *Broadcast just before planting and immediately incorporate into the soil			
	Caterpillars	1-1.25 qts/A	See label	7 days
	<b>Specific Directions:</b> *Apply when silks first appear *Do not make more than 5 applications per season			
	Aphids	1-2 pts/A	See label	7 days
	<b>Specific Directions:</b> *Apply in sufficient water to provide complete coverage to the upper portions of the plants *Do not make more than 5 applications per season			
	Beetles	2-2.5 pts/A	See label	7 days
	<b>Specific Directions:</b> *Do not make more than 5 applications per season			
	Flea Beetles	1 pts/A	See label	7 days
	Grasshoppers			
	Spider Mites			
	<b>Specific Directions:</b> *Apply as insects occur *Do not make more than 5 applications per season			
	<b>SWEET CORN NOTES:</b> (1) To protect bees, do not apply foliarly to corn during the pollen shed period (2) Allow a minimum of 7 days between the last application and grazing or cutting for forage (3) Corn may be picked 7 days after the last application			
Tomato	Cutworms	2-4 qts/A	See label	See label
	<b>Specific Directions:</b> *Broadcast just before planting and immediately incorporate into the soil			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Aphids Leafminers	0.5 pts/A	1 day	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Apply as insects occur</li> <li>*Diazinon will not control organophosphate-resistant Leafminers</li> <li>*Do not make more than 5 applications per season</li> </ul>				
		Armyworms Cucumber Beetles	0.75-1 pts/A	1 day 7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Apply as insects appear</li> <li>*Do not make more than 5 applications per season</li> </ul>				

**DEADLINE GT**

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Citrus</b>	Slugs Snails	25lbs./A	0 days	14 days
	<b>Specific Directions:</b> *Total number of applications per season: 6 *Read the label for application directions			
<b>Corn, Field</b>	Slugs Snails	25lbs./A	0 days	7 days
	<b>Specific Directions:</b> *Total number of applications per season: 3 *Read the label for application directions			
<b>Leafy Greens:</b>  <b>Broccoli</b> <b>Cabbage</b> <b>Cauliflower</b> <b>Collards</b> <b>Kale</b> <b>Mustard Greens</b>	Slugs Snails	25lbs./A	0 days	14 days
	<b>Specific Directions:</b> *Total number of applications per season: 3 *Read the label for application directions			
<b>Lettuce</b>	Slugs Snails	25lbs./A	0 days	14 days
	<b>Specific Directions:</b> *Total number of applications per season: 3 *Read the label for application directions			
<b>Tomato</b>	Slugs Snails	25lbs./A	0 days	14 days
	<b>Specific Directions:</b> *Total number of applications per season: 3 *Read the label for application directions			

## Restrictions

- This product is intended solely for use on agricultural crops grown for commercial or research purposes, and in State and/or Federal invasive mollusk eradication operations.
- This product may not be applied to residential sites (i.e., in yards, gardens, around homes and apartments) and other sites such as the exterior areas around schools and daycare facilities, and athletic fields, playgrounds, parks, recreation areas, etc.
- Do not apply as wide-area broadcast. Broadcast applications and applications of this product directed to plant parts are prohibited except to grass grown for seed, taro and as specified for use in State and/or Federal invasive mollusk eradication operations.
- Do not allow bait pellets to come in contact with plant parts except to grass grown for seed, taro, and as specified for use in State and/or Federal invasive mollusk eradication operations.
- Use only as a baiting treatment to be applied directly to the soil area beneath listed plants.
- Read entire label before using.
- Use as band treatment between rows.
- Do not apply to dry soil. Make applications following irrigation.
- Do not re-water for 48 hours after application.
- Apply any time of day, but evening applications are preferred
- Do not use in or around Hanalei, Kaua'i (USFW Refuge)

**EQUIS 720**

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Beans, Dry</b>	Anthracnose Ascochyta Blight Cercospora Leaf Blotch Downy Mildew Rust	1.37-2 pts/A	14 days	7-10 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Seasonal limits (pints/A/year): 8</li> <li>*Begin applications at first onset of disease which may occur as Early as 2 to 4 weeks before flowering</li> <li>*Repeat applications at 7-10 day intervals, but do not apply at less than 7 day intervals</li> <li>*For use only on beans to be harvested dry with pods removed. Do not apply within 14 days to harvest</li> </ul>				
<b>Beans, Snap</b>	Rust	1.37-3 pts/A	7 days	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Seasonal limits (pints/A/year): 12</li> <li>*Begin applications during Early bloom stage or when disease first threatens and repeat as necessary</li> <li>*Do not apply at less than 7 day intervals</li> <li>*Do not apply within 7 days of harvest</li> <li>*For resistance management of rust, alternate with another fungicide registered for bean rust control</li> </ul>				
	Botrytis Blight (Gray mold)	3 pts/A	7 days	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Seasonal limits (pints/A/year): 12</li> <li>*Begin applications during Early bloom stage or when disease first threatens and repeat as necessary</li> <li>*Do not apply at less than 7 day intervals</li> <li>*Do not apply within 7 days of harvest</li> <li>*For resistance management of rust, alternate with another fungicide registered for bean rust control</li> </ul>				

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Brassica Leafy Vegetables:</b>  <b>Broccoli, Cabbage, Cauliflower, Chinese Cabbage, Mustard Greens</b>	Alternaria Leaf Spot Downy Mildew	1.5 pts/A	7 days	7-10 days
	<b>Specific Directions:</b> *Use in sufficient water to obtain adequate coverage, applying by ground, air, or chemigation *Begin applications after transplants are set in field or shortly after emergence of field-seeded crop or when conditions favor disease development			
<b>Carrots</b>	Alternaria Leaf Blight Cercospora Leaf Spot	1.5-2.0 pts/A	0 days	0 days
	<b>Specific Directions:</b> *Use in sufficient water to obtain adequate coverage, applying by ground, air, or chemigation *Start applications when disease threatens and repeat at 7- to 10-day intervals, but do not apply at less than 7-day intervals *Equis 720 SST may be applied the day of harvest			

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Curcurbits:</b>  <b>Cantaloupe</b> <b>Cucumber</b> <b>Gourds</b> <b>Honeydew</b> <b>Bitter melon</b> <b>Muskelon</b> <b>Pumpkin</b> <b>Squash</b> <b>Watermelon</b>	Anthracnose Downy Mildew Target Spot	1.5- 2 pts/A	0 days	0 days
	<b>Specific Directions:</b>  *Use in sufficient water to obtain adequate coverage, applying by ground, air, or chemigation *Begin applications when plants are in first true Leaf stage or when conditions are favorable for disease development *Repeat applications at 7-day intervals, but do not apply at less than 7-day intervals *Equis 720 SST may be applied the day of harvest <b>Watermelon Note:</b> Spraying mature watermelons may result in sunburn of the upper surface of the fruit. Do not apply Equis 720 SST to watermelons when any of the following conditions are present: x Intense heat and sunlight x Drought conditions x Poor vine canopy x Other crop and environmental conditions which may be conducive to increased natural sunburn Do not combine Equis 720 SST with anything excepts water for application to watermelons unless your prior use has shown the combination to be non-injurious to watermelons under your conditions of use			

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Alternaria Leaf Blight Alternaria Leaf Spot Cercospora Leaf Spot Gummy Stem Blight/Vine Decline Powdery Mildew (Sphaerotheca only) Scab	2.0-3.0 pts/A	7 days	7 days
<b>Specific Directions:</b> <ul style="list-style-type: none"> <li>*Use in sufficient water to obtain adequate coverage, applying by ground, air, or chemigation</li> <li>*Begin applications when plants are in first true Leaf stage or when conditions are favorable for disease development</li> <li>*Repeat applications at 7-day intervals, but do not apply at less than 7-day intervals</li> <li>*Equis 720 SST may be applied the day of harvest</li> </ul> <p><b>Watermelon Note:</b> Spraying mature watermelons may result in sunburn of the upper surface of the fruit. Do not apply Equis 720 SST to watermelons when any of the following conditions are present: x Intense heat and sunlight x Drought conditions x Poor vine canopy x Other crop and environmental conditions which may be conducive to increased natural sunburn Do not combine Equis 720 SST with anything excepts water for application to watermelons unless your prior use has shown the combination to be non-injurious to watermelons under your conditions of use.</p>				

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Corn, Sweet</b>	Helminthosporium Leaf Blight Rust	0.75-2.0 pts/A	14 days	7 days
<b>Specific Directions:</b>				
	<ul style="list-style-type: none"> <li>*Use in sufficient water to obtain adequate coverage, applying by ground, air, or chemigation</li> <li>*Begin applications when conditions favor disease development and repeat at 7-day intervals, but do not apply at less than 7-day intervals</li> <li>*Under severe disease conditions, use 1.5 to 2 pints per acre</li> <li>*Do not apply within 14 days of harvest</li> <li>*Do not apply to sweet corn to be processed</li> <li>*Do not ensile treated corn or use as livestock forage</li> <li>*Do not allow livestock to graze in treated fields</li> </ul>			
<b>Fruiting Vegetables: (Except Tomato)</b>  <b>Eggplant</b> <b>Okra</b> <b>Pepino</b> <b>Pepper (Bell, Chili, Cooking, Pimento, Sweet)</b> <b>Tomatillo</b>	Anthracnose Botrytis Blight (Gray mold) Cercospora Leaf Spot Powdery Mildew	1.5 pts/A	3 days	7-10 days
<b>Specific Directions:</b>				
	<ul style="list-style-type: none"> <li>*Use in sufficient water to obtain adequate coverage, applying by ground, air, or chemigation</li> <li>*Begin applications as a foliage, flower, and fruit spray when disease is expected</li> <li>*Repeat applications at 7- to 10-day intervals, but do not apply at less than 7-day intervals</li> <li>*Do not apply within 3 days of harvest</li> </ul>			
<b>Mango</b>	Anthracnose	2.0-3.5 pts/A	21 days	7-14 days
<b>Specific Directions:</b>				
	<ul style="list-style-type: none"> <li>*Use 20 to 300 gallons per acre, applying by ground or air</li> <li>*Begin applications at Early bloom and repeat on a 7- to 14-day interval until Early fruit development, but do not apply at less than 7-day intervals</li> <li>*Begin the season with the 2 pint rate on a 14-day treatment interval</li> <li>*If disease pressure is severe, use the higher rate and shorter interval</li> <li>*Do not apply within 21 days of harvest</li> </ul>			

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Onions (Dry bulb)</b> <b>Garlic</b>	Botrytis Blight (Gray mold) Purple Blotch Botrytis Neck Rot (Suppression) Downy Mildew (Suppression)	1.0-3.0 pts/A	7 days	See label
<b>Specific Directions:</b>				
	*Use in sufficient water to obtain thorough coverage of tops, applying by ground, air, or chemigation			
	*Repeat applications as necessary (see table on label), but do not apply at less than 7-day intervals			
	*Use with disease monitoring systems which adjust fungicide rates and frequency of application according to disease hazard (Read the label for directions)			
	*For Suppression of neck Rot (Botrytis spp.) during storage, use a minimum of 3 weekly applications prior to lifting using 1 3/8 to 3 pints of Equis 720 SST per acre			
	*Do not apply within 7 days of harvest			
<b>Papaya</b>	Alternaria Fruit Spot Anthracnose Stem End Rot	1.5-3.0 pts/A	0 days	14 days
<b>Specific Directions:</b>				
	*Use sufficient water to obtain adequate coverage of fruit and leaves, applying by ground only			
	*Begin treatment when conditions favor development of disease, and continue treatments at 14-day intervals until weather conditions no longer favor disease development			
	*Do not apply at less than a 14-day interval			
	*Equis 720 SST may be applied the day of harvest			

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
Peanut	Early Leaf Spot (Cercospora) Late Leaf Spot (Cercosporidium) Pepper Spot	1.0-1.5 pts/A	14 days	14 days
<b>Specific Directions:</b>				
		*Use in sufficient water for coverage when Leaf wetness first occurs or 30 to 40 days after planting, using ground, air, or chemigation		
		*Repeat at 14-day intervals, but do not apply at less than 14-day intervals.		
		*When conditions favor Late Leaf Spot or when rust or web blotch occur, apply 1.5 pints per acre at 14-day intervals for the remainder of the season		
		*Alternate chemigation applications with ground or aerial applications		
		*Use 1.5 pints if applying by chemigation		
		*Do not apply within 14 days of harvest		
		*Do not allow livestock to graze in treated areas		
		*Do not feed hay or threshings from treated fields to livestock		
	Rust Web Blotch	1.5 pts/A	14 days	14 days
<b>Specific Directions:</b>				
		*Use in sufficient water for coverage when Leaf wetness first occurs or 30 to 40 days after planting, using ground, air, or chemigation		
		*Repeat at 14-day intervals, but do not apply at less than 14-day intervals.		
		*When conditions favor Late Leaf Spot or when rust or web blotch occur, apply 1.5 pints per acre at 14-day intervals for the remainder of the season		
		*Alternate chemigation applications with ground or aerial applications		
		*Use 1.5 pints if applying by chemigation		
		*Do not apply within 14 days of harvest		
		*Do not allow livestock to graze in treated areas		
		*Do not feed hay or threshings from treated fields to livestock		

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL																								
<b>Tomato</b>	Foliage: Early Blight Botrytis Blight (Gray mold) Gray Leaf Spot Late Blight Septoria Leaf Spot Target Spot	1.37-2.0 pts/A	0 days	7-10 days																								
<b>Specific Directions:</b>																												
<ul style="list-style-type: none"> <li>*Use in sufficient water to obtain adequate coverage, applying by ground, air, or chemigation</li> <li>*Begin applications when dew or rain occurs and disease threatens</li> <li>*Apply every 7 to 10 days for foliage diseases</li> <li>*For fruit diseases, begin at fruit set and apply every 7 to 14 days</li> <li>*Do not apply at less than 7-day intervals</li> <li>*Use the highest rate and shortest interval when disease is severe</li> <li>*Equis 720 SST may be applied the day of harvest</li> </ul>																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Alternaria Fruit Rot (Black Mold)</td> <td style="padding: 5px;">2.0-2.75 pts/A</td> <td style="padding: 5px;">0 days</td> <td style="padding: 5px;">7-14 days</td> </tr> <tr> <td style="padding: 5px;">Anthracnose</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;">Botrytis Blight (Gray mold)</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;">Late Blight</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;">Fruit Rot</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;">Rhizoctonia Fruit Rot</td> <td></td> <td></td> <td></td> </tr> </table>					Alternaria Fruit Rot (Black Mold)	2.0-2.75 pts/A	0 days	7-14 days	Anthracnose				Botrytis Blight (Gray mold)				Late Blight				Fruit Rot				Rhizoctonia Fruit Rot			
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Late Blight																												
Fruit Rot																												
Rhizoctonia Fruit Rot																												
<b>Specific Directions:</b>																												
<ul style="list-style-type: none"> <li>*Use in sufficient water to obtain adequate coverage, applying by ground, air, or chemigation</li> <li>*Begin applications when dew or rain occurs and disease threatens</li> <li>*Apply every 7 to 10 days for foliage diseases</li> <li>*For fruit diseases, begin at fruit set and apply every 7 to 14 days</li> <li>*Do not apply at less than 7-day intervals</li> <li>*Use the highest rate and shortest interval when disease is severe</li> <li>*Equis 720 SST may be applied the day of harvest</li> </ul>																												

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Yam</b>	Anthracnose	1.0-1.25 pts/A	7 days	10-14 days
<b>Specific Directions:</b> <ul style="list-style-type: none"> <li>*Use in sufficient water to obtain adequate coverage, applying by ground, air, or chemigation</li> <li>*Begin applications when disease first threatens</li> <li>*Repeat applications As needed at 10- to 14- day intervals, but do not apply at less than 10-day intervals. *Do not apply within 7 days of harvest</li> </ul>				

## KOCIDE 3000 \*\*

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Avocado</b>	Anthracnose Blotch Scab	3.5-5.25 lb/A	0 days	14-30 days
	<b>Specific Directions:</b> *Apply when bloom buds begin to swell and continue application at 14-30 day intervals for five to six applications *Use higher rates when conditions favor disease *Maximum annual rate/acre: 63 lb.			
<b>Banana</b>	Sigatoka (Black and Yellow)	0.75 lb/A	0 days	7-14 days
	<b>Specific Directions:</b> *Maximum annual rate/acre: 63 lb.			
<b>Beans (Dry, Green)</b>	Brown Spot Common Blight	0.5-1.25 pts/A	0 days	7-14 days
	<b>Specific Directions:</b> *Read the label. *Use the higher rate for more severe disease *For protective sprays, make first application when plants are 6 inches high; repeat on a 7-14 day schedule depending upon local conditions			
<b>Cacao</b>	Black Pod	0.75-3.75 lb/A	0 days	14-21 days
	<b>Specific Directions:</b> *Begin applications at the start of the rainy season and continue while infection conditions persist *Apply .75 to 2 pounds at 14 to 21 day intervals if needed depending on disease severity *For drier areas, make two to four applications using 2.5 to 3.75 pounds per acre according to disease incidence and planting density *Maximum annual rate/acre: 52.5 lb.			

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL					
<b>Carrot</b>	Alternaria Leaf Spot Cercospora Leaf Spot	0.75 - 1.5 lb/A	0 days	7-14 days					
<b>Specific Directions:</b>									
<ul style="list-style-type: none"> <li>*Begin applications when disease first threatens and repeat at 7- to 14- day intervals if needed depending on disease severity</li> <li>*Maximum annual rate/acre: 16.7 lb.</li> </ul>									
<b>Citrus:</b>	Melanose Scab	1.75 - 5 lb/A	0 days	7 days					
<b>Grapefruit</b> <b>Lemon</b> <b>Lime</b> <b>Orange</b> <b>Tangerine</b>	<b>Specific Directions:</b>								
<ul style="list-style-type: none"> <li>*Apply as pre-bloom and post-bloom sprays</li> <li>*Use the higher rates when conditions favor disease</li> <li>*Minimum retreatment interval is 7 days</li> <li>*Maximum annual rate/acre: 42 lb.</li> </ul>									
<table border="1"> <tr> <td>Alternaria Brown Spot</td> <td>1.75 - 3.5 lb/A</td> <td>0 days</td> <td>7 to 21 days</td> <td></td> </tr> </table>					Alternaria Brown Spot	1.75 - 3.5 lb/A	0 days	7 to 21 days	
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<b>Specific Directions:</b>									
<ul style="list-style-type: none"> <li>*On susceptible varieties apply when the first spring flush appears and each flush thereafter</li> <li>*Application to fruit should start after two thirds of the petals have fallen and be repeated on a 7 to 21 day schedule if needed</li> <li>*Use the higher rates when conditions favor disease</li> <li>*Maximum annual rate/acre: 42 lb.</li> </ul>									

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Phytophthora Brown Rot Septoria Spot	1.75-3.5 lb/A	0 days	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Begin application in fall before or just after the first rain and continue if needed</li> <li>*For Brown Rot only, apply to skirts of trees to a height of at least 4 feet</li> <li>*For control of Septoria Spot or where fruit have already been infected with Brown Rot, apply to entire tree</li> <li>*Apply also to bare ground one Foot beyond skirt</li> <li>*Use the higher rates when conditions favor disease</li> <li>*Minimum retreatment interval is 7 days</li> <li>*Maximum annual rate/acre: 42 lb.</li> </ul>				
	Phytophthora Foot Rot	0.5 lb/A	0 days	1 year
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Mix with 1 quart of water, "Tre-Hold" or Latex paint. Paint trunks of trees from the soil surface to the lowest scaffold limbs</li> <li>*Apply in May prior to summer rains and/or in the fall prior to wrapping trees for freeze protection</li> <li>*Treatment serves as protection for up to 1 year, but does not cure existing infections</li> <li>*NOTE: Areas where microjet or low volume irrigation hit the tree trunk may require retreatment due to wash off.</li> <li>*Maximum annual rate/acre: 42 lb.</li> </ul>				
	Citrus Canker (Suppression)	1 - 2.5 lb/A	0 days	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Spray flushes 7 to 14 days after shoots begin to grow</li> <li>*Young fruit may require an additional application</li> <li>*Number and timing of applications will be dependent upon disease pressure</li> <li>*Under heavy pressure, spray each flush of new growth</li> <li>*Minimum retreatment interval is 7 days</li> <li>*Maximum annual rate/acre: 42 lb.</li> </ul>				

## KOCIDE 3000 \*\*

Fungicide  
General Use Pesticide  
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CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Black Spot	1 - 3 lb/A	0 days	7-21 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Begin treatment prior to or when disease first appears and repeat every 7 to 21 days if needed</li> <li>*Use the higher rates and shorter spray intervals when conditions favor disease</li> <li>*Minimum retreatment interval is 7 days</li> <li>*Maximum annual rate/acre: 42 lb.</li> </ul>				
<b>Corn (Field, Sweet)</b>	Bacterial Stalk Rot	0.5 - 1.75 lb/A	0 days	7-10 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Begin treatment when disease first appears and repeat every 7 to 10 days if needed</li> <li>*Use the higher rates and shorter spray intervals when conditions favor disease</li> <li>*Maximum annual rate/acre: 14 lb.</li> </ul>				
<b>Crucifers:</b> <b>Broccoli</b> <b>Cabbage</b> <b>Chinese Cabbage</b> <b>Cauliflower</b> <b>Collard Greens</b> <b>Mustard Greens</b> <b>Turnip</b> <b>Kale</b>	Black Leaf Spot (Alternaria) Black Rot (Xanthomonas) Downy Mildew	0.5 - 0.75 lb/A	0 days	7-10 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Begin application after transplants are set in the field, or shortly after emergence of field seeded crops or when conditions favor disease development</li> <li>*Apply at 7- to 10-day intervals if needed</li> <li>*Use the higher rates when conditions favor disease</li> <li>*NOTE: Reddening of older leaves may occur on broccoli and a flecking of wrapper leaves may occur on cabbage</li> <li>*Maximum annual rate/acre: 8.8 lb.</li> </ul>				

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Cucurbits:</b> <b>Cantaloupe</b> <b>Cucumber</b> <b>Honeydew</b> <b>Muskmelon</b> <b>Pumpkin</b> <b>Squash</b> <b>Watermelon</b>	Alternaria Leaf Spot Angular Leaf Spot Anthracnose Downy Mildew Gummy Stem Blight Powdery Mildew Watermelon Bacterial Fruit Blotch (Suppression)	0.5 - 1.25 lb/A	0 days	5-7 days
	<b>Specific Directions:</b> *Begin applications prior to disease development and continue while conditions are favorable for disease development *Repeat at 5- to 7-day intervals if needed *Use the higher rates when conditions favor disease *NOTE: Crop injury may occur from application at higher rates and shorter intervals. Discontinue use if injury occurs *Maximum annual rate/acre: 17.5 lb.			
<b>Eggplant</b>	Alternaria Blight Anthracnose	0.75 - 1.5 lb/A	0 days	7-10 days
	<b>Specific Directions:</b> *Begin applications prior to development of disease symptoms *Repeat sprays at 7- to 10-day intervals if needed depending on disease severity *Maximum annual rate/acre: 26.3 lb.			
<b>Guava</b>	Anthracnose Red Algae	1.25 - 2.0 lb/A	0 days	7 days
	<b>Specific Directions:</b> *Make initial application just before flowering and repeat on a weekly schedule until just before harvest *Apply in sufficient water for thorough coverage *Use the higher rates for severe disease *Maximum annual rate/acre: 16.4 lb.			

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
Lettuce	Downy Mildew	0.75 - 1.5 lb/A	0 days	5-10 days
<b>Specific Directions:</b>				
	<ul style="list-style-type: none"> <li>*Begin applications when disease symptoms first appear or when conditions favor disease development</li> <li>*Repeat at 5- to 10-day intervals if needed depending on disease severity</li> <li>*NOTE: Determine if there is varietal sensitivity prior to use</li> <li>*Injury may occur to sensitive lettuce varieties and under adverse weather conditions</li> <li>*Discontinue use if injury occurs</li> <li>*Maximum annual rate/acre: 26.6 lb.</li> </ul>			
Mango	Anthracnose	2 - 6 lb/A	0 days	7 days
<b>Specific Directions:</b>				
	<ul style="list-style-type: none"> <li>*Apply at 7 day intervals after fruit set until harvest</li> <li>*Use the higher rates when rainfall is heavy and disease pressure is high</li> <li>*Maximum annual rate/acre: 160 lb.</li> </ul>			
Okra	Anthracnose Bacterial Leaf Spot Leaf Spot Pod Spot Powdery Mildew	0.75 - 1.75 lb/A	0 days	5-10 days
<b>Specific Directions:</b>				
	<ul style="list-style-type: none"> <li>*Begin treatment when disease first threatens and repeat every 5- to 10- days if needed depending on disease severity</li> <li>*Use the higher rates and shorter spray intervals when conditions favor disease</li> <li>*Maximum annual rate/acre: 17.5 lb.</li> </ul>			
Onion Garlic	Bacterial Blight Downy Mildew Purple Blotch	0.75 - 1.5 lb/A	0 days	7-10 days
<b>Specific Directions:</b>				
	<ul style="list-style-type: none"> <li>*Begin when plants are 4 to 6 inches high and repeat at 7- to 10-day intervals if needed depending on disease severity</li> <li>*Can cause phytotoxicity to leaves</li> <li>*Maximum annual rate/acre: 20 lb.</li> </ul>			

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
Peanut	Cercospora Leaf Spot	0.75 - 1.25 lb/A	0 days	7-14 days
	<b>Specific Directions:</b>			
	*Begin spraying at 35 to 40 days after planting or when disease symptoms first appear and repeat at 7- to 14-day intervals if needed *Reduce sprays to 7 day intervals during humid weather *Use the higher rates when conditions favor disease *Flowable sulfur may be added *Maximum annual rate/acre: 15.8 lb.			
Pepper	Anthracnose Bacterial Spot Cercospora Leaf Spot	0.75 - 1.25 lb/A	0 days	3-10 days
	<b>Specific Directions:</b>			
	*Begin applications when conditions first favor disease development and repeat at 3- to 10-day intervals if needed depending on disease severity *Use the higher rates when conditions favor disease *Maximum annual rate/acre: 39.5 lb.			
Papaya	Anthracnose	1.75 - 4.25 lb/A	0 days	7 days
	<b>Specific Directions:</b>			
	*Apply before disease appears. Apply at 7-day intervals if needed *The addition of an approved spreader is desirable *Use the higher rates when conditions favor disease *Maximum annual rate/acre: 70.7 lb.			
Parsley	Bacterial Blight (Pseudomonas sp.)	1.25 - 2.0 lb/A	0 days	10 days
	<b>Specific Directions:</b>			
	*Begin applications when plants are first established in the field and repeat at 10 day intervals if needed depending on disease severity and environmental conditions *Maximum annual rate/acre: 6.7 lb.			

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CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Tomato</b>	Anthracnose Bacterial Speck Bacterial Spot Botrytis Blight (Gray mold) Late Blight Septoria Leaf Spot	0.75 - 1.75 lb/A	0 days	3-10 days
<b>Specific Directions:</b> *Begin applications when disease first threatens and repeat at 3- to 10- day intervals if needed depending on disease severity *Use the higher rates when conditions favor disease *Maximum annual rate/acre: 58 lb. (Processing), 26.7 lb. (Fresh market)				

# LANNATE LV

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Avocado</b>	Leafrollers Loopers	1.5-3 pts/A	1 day	5-7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 3 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 2 applications/crop</li> </ul>				
<b>Beans</b>	Beetles Leafhoppers	0.75-3 pts/A	See label	5-7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 15 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 10 applications/crop</li> </ul>				
	Cutworms	1.5 pts/A	See label	5-7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 15 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 10 applications/crop</li> </ul>				
	Armyworms Aphids Caterpillars Loopers Thrips	1.5-3 pts/A	See label	5-7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 15 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 10 applications/crop</li> </ul>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Broccoli</b>	Diamondback Moths Loopers	1.5-3 pts/A	3 days	2 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 21 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 10 applications/crop</li> <li>*Add a wetting agent to improve coverage</li> </ul>				
	Caterpillars	0.75-3 pts/A	3 days	2 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 21 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 10 applications/crop</li> <li>*Add a wetting agent to improve coverage</li> </ul>				
<b>Cabbage</b>	Diamondback Moths Loopers	1.5-3 pts/A	1 day	5-7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 24 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 15 applications/crop</li> <li>*Add a wetting agent to improve coverage</li> </ul>				
	Caterpillars	0.75-3 pts/A	1 day	2 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 24 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 15 applications/crop</li> <li>*Add a wetting agent to improve coverage</li> </ul>				
	Armyworms Cutworms	1.5 pts/A	1 day	2 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 24 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 15 applications/crop</li> <li>*Add a wetting agent to improve coverage</li> </ul>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Carrot</b>	Leafhoppers	1.5-3 pts/A	1 day	5-7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 21 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 10 applications/crop</li> </ul>				
	Armyworms Cutworms	0.75-1.5 pts/A	1 day	5-7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 21 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 10 applications/crop</li> </ul>				
<b>Cauliflower</b>	Caterpillars	0.75-3 pts/A	3 days	2 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label.</li> <li>*Do not apply more than 24 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 10 applications/crop</li> <li>*Add a wetting agent to improve coverage</li> </ul>				
	Diamondback Moths Loopers	1.5-3 pts/A	3 days	2 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 24 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 10 applications/crop</li> <li>*Add a wetting agent to improve coverage</li> </ul>				
	Cutworms	1.5 pts/A	3 days	2 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 24 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 10 applications/crop</li> <li>*Add a wetting agent to improve coverage</li> </ul>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Chinese Cabbage (Napa, Bok Choy)</b>	Armyworms Loopers	1.5-3 pts/A	10 days	5-7 days
	<b>Specific Directions:</b> *Read the label *Do not apply more than 24 pints of LANNATE®LV/acre (A)/crop *Do not make more than 10 applications/crop *Minimum of 25 gallons water per acre			
<b>Corn, Field</b>	Aphids Armyworms Beetles Caterpillars Flea Beetles	0.75-1.5 pts/A	See label	5-7 days
	<b>Specific Directions:</b> *Read the label *Do not apply more than 7.5 pints of LANNATE®LV/acre (A)/crop *Do not make more than 5 applications/crop			
	Cutworms	1.5 pts/A	See label	5-7 days
	<b>Specific Directions:</b> *Read the label *Do not apply more than 7.5 pints of LANNATE®LV/acre (A)/crop *Do not make more than 5 applications/crop			
<b>Corn, Sweet</b>	Aphids Armyworms Beetles Caterpillars Flea Beetles	0.75-1.5 pts/A	See label	1 day
	<b>Specific Directions:</b> *Read the label *Do not apply more than 21 pints of LANNATE®LV/acre (A)/crop *Do not make more than 28 applications/crop *Certain hybrid varieties of corn are susceptible to methomyl injury *Treat a small area to determine crop safety before full scale spraying			

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Caterpillars																																				
<b>Specific Directions:</b>																																				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 15 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 10 applications/crop</li> </ul>																																				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Garlic</b>	Armyworms	1.5-3 pts/A	7 days	5-7 days
	<b>Specific Directions:</b>			
	*Read the label			
	*Do not apply more than 9 pints of LANNATE®LV/acre (A)/crop			
	*Do not make more than 6 applications/crop			
	*Add a wetting agent to improve coverage			
<b>Horseradish</b>	Aphids Thrips	1.5 pts/A	65 days	5-7 days
	<b>Specific Directions:</b>			
	*Read the label			
	*Do not apply more than 6 pints of LANNATE®LV/acre (A)/crop			
	*Do not make more than 4 applications/crop			
<b>Leafy Green Vegetables:</b>	Armyworms Caterpillars Diamondback Moths Loopers	1.5-3 pts/A	10 days	5-7 days
<b>Mustard Greens Parsley</b>				
	<b>Specific Directions:</b>			
	*Read the label			
	*Do not apply more than 12 pints of LANNATE®LV/acre (A)/crop			
	*Do not make more than 8 applications/crop			
<b>Lettuce (Head, Leaf)</b>	Aphids Armyworms Loopers Caterpillars Leafhoppers Thrips	1.5-3 pts/A	See label	2 days
	<b>Specific Directions:</b>			
	*Read the label			
	<b>Lettuce (Head varieties):</b>			
	*Do not apply more than 21 pints of LANNATE®LV/acre (A)/crop			
	*Do not make more than 12 applications/crop			
	<b>Lettuce (Leaf varieties):</b>			
	*Do not apply more than 12 pints of LANNATE®LV/acre (A)/crop			
	*Do not make more than 6 applications/crop			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Cutworms	1.5 pts/A	See label	2 days
<b>Specific Directions:</b>				
*Read the label				
<b>Lettuce (Head varieties):</b>				
*Do not apply more than 21 pints of LANNATE®LV/acre (A)/crop				
*Do not make more than 12 applications/crop				
<b>Lettuce (Leaf varieties):</b>				
*Do not apply more than 12 pints of LANNATE®LV/acre (A)/crop				
*Do not make more than 6 applications/crop				
<b>Melons:</b> <b>Cantaloupe</b> <b>Honeydew</b> <b>Muskmelon</b> <b>Pepino</b> <b>Watermelon</b>	Aphids Armyworms Loopers Cucumber Beetles Cutworms Caterpillars Flea Beetles Melonworms	1.5-3 pts/A	See label	5-7 days
*Read the label				
* Do not apply more than 18 pints of LANNATE®LV/acre (A)/crop				
*Do not make more than 12 applications/crop				
<b>Onion, Green</b>	Armyworms Cutworms Thrips	1.5-3 pts/A	7 days	5-7 days
<b>Specific Directions:</b>				
*Read the label				
*Do not apply more than 21 pints of LANNATE®LV/acre (A)/crop				
*Do not make more than 8 applications/crop				
*Add wetting agent to improve coverage				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Peanut</b>	Armyworms Caterpillars Cutworms Leafhoppers Loopers Thrips	0.75-3 pts/A	21 days	5-7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 12 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 8 applications/crop</li> </ul>				
<b>Pepper (Bell, Hot)</b>	Aphids Armyworms Loopers Caterpillars Cutworms	0.75-3 pts/A	3 days	5-7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 12 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 8 applications/crop</li> </ul>				
<b>Squash, Summer Bitter melon Gourds Kondot</b>	Aphids Armyworms Loopers Cucumber Beetles Cutworms Caterpillars Flea Beetles Melonworms	1.5-3 pts/A	See label	5-7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 18 pints of LANNATE®LV/acre (A)/crop</li> <li>*Do not make more than 12 applications/crop</li> </ul>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Tomato</b>	Aphids Armyworms Caterpillars Cutworms Loopers	0.75-3 pts/A	1 day	5-7 days
	<b>Specific Directions:</b> *Read the label *Do not apply more than 7.2 lbs. a.i./ A /crop *Do not make more than 16 applications/crop			

**MALATHION 5 EC**

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Avocado</b>	Loopers Scales Thrips	7.5 pts/a	7 days	As needed
	<b>Specific Directions:</b> *Read the label *Do not make more than 2 applications/crop			
<b>Broccoli</b>	Aphids Caterpillars Loopers	1-2 pts/A	2 days	As needed
	<b>Specific Directions:</b> *Read the label *Do not make more than 2 applications/crop			
<b>Cabbage</b>	Aphids Caterpillars Loopers Diamondback Moths	1-2 pts/A	7 days	As needed
	<b>Specific Directions:</b> *Read the label *Do not make more than 6 applications/crop			
<b>Carrot</b>	Aphids	1.5-2 pts/A	7 days	As needed
	<b>Specific Directions:</b> *Read the label			
	Leafhoppers	1.5-2 pts/A	7 days	As needed
	<b>Specific Directions:</b> *Read the label *Do not make more than 2 applications/crop			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Cauliflower</b>	Aphids Diamondback Moths	1-2 pts/A	7 days	As needed
	<b>Specific Directions:</b> *Read the label *Do not make more than 2 applications/crop			
<b>Citrus:</b> <b>Grapefruit</b> <b>Lemon</b> <b>Lime</b> <b>Orange</b> <b>Tangerine</b>	Mites Scales Thrips	2.4 pts/A	7 days	As needed
	<b>Specific Directions:</b> *Read the label *Do not apply when trees are in bloom *Do not make more than 3 applications/crop			
<b>Corn, Sweet</b>	Beetles	1.6 pts/A	5 days	As needed
	<b>Specific Directions:</b> *Read the label *Injury may occur in the whorl or to the silks *Do not make more than 2 applications/crop			
<b>Cucumber</b>	Aphids Caterpillars Beetles Cucumber Beetles Leafminers Spider Mites	1.5-2.8 pts/A	1 day	As needed
	<b>Specific Directions:</b> *Read the label *Do not make more than 2 applications/crop			
<b>Eggplant</b>	Aphids Spider Mites	1.5-2.5 pts/A	3 days	As needed
	<b>Specific Directions:</b> *Read the label *Do not make more than 4 applications/crop			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Garlic</b>	Aphids Thrips	1.5-2.5 pts/A	3 days	As needed
<b>Specific Directions:</b>				
*Read the label *Do not make more than 3 applications/crop				
<b>Lettuce, Leaf</b>	Aphids Leafhoppers Spider Mites	2-3 pts/A	14 days	As needed
<b>Specific Directions:</b>				
*Read the label *Do not make more than 2 applications/crop				
<b>Melons:</b> <b>Cantaloupe</b> <b>Honeydew</b> <b>Muskmelon</b>	Aphids Cucumber Beetles Leafminers Leafhoppers Spider Mites	1.5-2 pts/a	1 day	As needed
<b>Specific Directions:</b>				
*Read the label *Do not make more than 2 applications/crop				
<b>Okra</b>	Aphids	1.5 pts/A	1 day	As needed
<b>Specific Directions:</b>				
*Read the label * Do not make more than 5 applications/crop				
<b>Specific Directions:</b>				
*Read the label *Do not make more than 5 applications/crop				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
Papaya	Aphids Mealybugs	1.5-2 pts/A	1 day	As needed
	<b>Specific Directions:</b> *Read the label *Do not make more than 8 applications/crop			
Parsley	Aphids	1.5-2 pts/A	21 days	As needed
	<b>Specific Directions:</b> *Read the label *Do not make more than 2 applications/crop			
Pepper (Bell, Hot)	Aphids Caterpillars	1-2.5 pts/A	3 days	As needed
	<b>Specific Directions:</b> *Read the label *Do not make more than 2 applications/crop			
Pineapple	Mealybugs	1 pts/100 gals water or 8 pts/A	7 days	As needed
	<b>Specific Directions:</b> *Read the label *Do not make more than 3 applications/crop			
Pumkin	Aphids Caterpillars Cucumber Beetles Leafhoppers Spider Mites	1.5 pts/A	1 day	As needed
	<b>Specific Directions:</b> *Read the label *Do not make more than 2 applications/crop			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Radish</b> <b>Horseradish</b>	Aphids	1.5 pts/A	7 days	As needed
	<b>Specific Directions:</b> *Read the label *Do not make more than 3 applications/crop			
<b>Squash, Summer</b>	Aphids Cucumber Beetles Caterpillars Leafminers Spider Mites	2-2.8 pts/A	1 day	As needed
	<b>Specific Directions:</b> *Read the label. *Do not make more than 3 applications/crop			
<b>Squash, Winter</b>	Aphids Cucumber Beetles Caterpillars Leafminers Spider Mites	1.6 pts/A	1 day	As needed
	<b>Specific Directions:</b> *Read the label. *Do not make more than 3 applications/crop			
<b>Sweet Potato</b>	Leafhoppers Leafminers	1.5-2.5 pts/A	0 days	As needed
	<b>Specific Directions:</b> *Read the label. *Do not make more than 2 applications/crop			
<b>Tomato</b>	Aphids Spider Mites	1.5 pts/A	1 day	As needed
	<b>Specific Directions:</b> *Read the label			

## MALATHION 5 EC

Insecticide/Miticide  
General Use Pesticide

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Armyworms Caterpillars	2.5 pts/A	1 day	As needed
<b>Specific Directions:</b>				
*Read the label				
*Do not make more than 4 applications/crop				
<b>Watermelon</b>	Aphids Cucumber Beetles Leafminers Leafhoppers Spider Mites	1.5-2.5 pts/A	1 day	As needed
<b>Specific Directions:</b>				
*Read the label				
*Do not make more than 2 applications/crop				

# MALATHION 8 Aquamul

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Avocado</b>	Loopers Scales Thrips	4-4.7pts/A	7 days	30 days
<b>Specific Directions:</b>				
*Read the label				
*Do not make more than 2 applications/acre per calendar year				
<b>Broccoli</b>	Aphids Caterpillars Loopers	1.25pts/A	2 days	7 days
<b>Specific Directions:</b>				
*Read the label				
*Do not make more than 6 applications/acre per calendar year				
<b>Cabbage</b>	Aphids Caterpillars Diamondback Moths Loopers	1.25pts/A	7 days	See label
<b>Specific Directions:</b>				
*Read the label				
*Do not make more than 6 applications/acre per calendar year				
<b>Carrot</b>	Aphids Leafhoppers	1-1.25 pts/A	7 days	7 days
<b>Specific Directions:</b>				
*Read the label				
*Do not make more than 2 applications/acre per calendar year				
<b>Citrus:</b>	Scales	1.5pts/A	7 days	30 days
<b>Grapefruit</b>	<b>Specific Directions:</b>			
<b>Lemon</b>	*Read label			
<b>Lime</b>	*Do not apply when trees are in bloom			
<b>Orange</b>	*Do not make more than 3 applications/crop			
<b>Tangerine</b>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Corn, Sweet</b>	Beetes	1 pt/A	5 days	5 days
	<b>Specific Directions:</b>			
	*Read the label			
	*Injury may occur in the whorl or to the silks			
	*Do not make more than 2 applications/crop			
<b>Cucumbers</b>	Aphids Beetles Caterpillars Cucumber Beetles Leafhoppers Spider Mites	1-1.75 pts/A	1 day	7 days
	<b>Specific Directions:</b>			
	*Read the label			
	*Do not make more than 2 applications/crop			
<b>Eggplant</b>	Aphids Spider Mites	0.75-1.56 pts/A	3 day	5 days
	<b>Specific Directions:</b>			
	*Read the label			
	*Do not make more than 4 applications/crop			
<b>Garlic</b>	Aphids Thrips	1-1.5 pts/A	3 days	7 days
	<b>Specific Directions:</b>			
	*Read the label			
	*Do not make more than 3 applications/crop			
<b>Lettuce, Leaf</b>	Aphids Leafhoppers	1.25-1.88 pts/A	14 days	6 days
	<b>Specific Directions:</b>			
	*Read label			
	*Do not make more than 3 applications/crop			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Loopers Spider Mites	1.88 pts/A	14 days	6 days
<b>Specific Directions:</b>				
*Read label *Do not make more than 3 applications/crop				
<b>Melons: (Other than Watermelon)</b>	Aphids Cucumber Beetles Leafhoppers Leafminers Spider Mites	1 pts/A	1 day	7 days
<b>Specific Directions:</b>				
*Read label *Do not make more than 2 applications/crop				
<b>Okra</b>	Aphids Beetles	1.2 pts/A	1 day	7 days
<b>Specific Directions:</b>				
*Read the label *Do not make more than 5 applications/crop				
<b>Papaya</b>	Aphids Mealybugs	1.25 pts/A	1 day	3 days
<b>Specific Directions:</b>				
*Read the label *Do not make more than 8 applications/crop				
<b>Parsley</b>	Aphids	1-1.5 pts/A	7 days	7 days
<b>Specific Directions:</b>				
*Read label *Do not make more than 2 applications/crop				
<b>Peppers</b>	Aphids	0.75-1.5 pts/A	3 days	5 days
<b>Specific Directions:</b>				
*Read the label *Do not make more than 2 applications/crop				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
Pineapple	Mealybugs	2 pts/A	7 days	7 days
	<b>Specific Directions:</b> *Read the label *Do not make more than 2 applications/crop			
Pumpkin	Aphids Caterpillars Cucumber Beetles Leafhoppers Spider Mites Thrips	1 pt/A	1 day	7 days
	<b>Specific Directions:</b> *Read the label *Do not make more than 2 applications/crop			
Radish Horseradish	Aphids	1 pt/A	7 days	7 days
	<b>Specific Directions:</b> *Read the label *Do not make more than 3 applications/crop			
Squash, Summer	Aphids Caterpillars Cucumber Beetles Spider Mites Thrips	1.75 pts/A	1 day	7 days
	<b>Specific Directions:</b> *Read the label *Do not make more than 3 applications/crop			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Squash, Winter</b>	Aphids Caterpillars Cucumber Beetles Spider Mites Thrips	1 pt/A	1 day	7 days
<b>Specific Directions:</b>				
*Read the label				
*Do not make more than 3 applications/crop				
<b>Sweet Potato</b>	Leafhoppers	1-1.56 pts/A	0 days	7 days
	<b>Specific Directions:</b>			
	*Read the label *Do not make more than 2 applications/crop			
<b>Tomato</b>	Leafminers	1 3/4 pts/A	0 days	7 days
	<b>Specific Directions:</b>			
	*Read the label *Do not make more than 2 applications/crop			
	Aphids Spider Mites	1-1.56 pts/A	1 day	5 days
	<b>Specific Directions:</b>			
	*Read the label *Do not make more than 4 applications/crop			
	Armyworms Caterpillars	1.56 pts/A	1 day	5 days
	<b>Specific Directions:</b>			
	*Read the label *Do not make more than 2 applications/crop			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Watermelon</b>	Aphids Cucumber Beetles Leafhoppers Leafminers Spider Mites	1.5 pts/A	1 day	7 days
	<b>Specific Directions:</b> *Read label *Do not make more than 2 applications/crop			

**MANZATE PRO STICK**

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Banana</b>	Sigatoka	2-3 lb/A	0 days	14-21 days
<b>Specific Directions:</b>				
		*Apply when leaves first appear and repeat every 14 to 21 days or as required		
		*Use sufficient water to provide adequate coverage		
		*Do not apply more than 30 lbs (22.5 lbs active) per acre per growing cycle		
		*Minimum preharvest interval 0 days		
<b>Broccoli</b>	Alternaria Leaf Spot Downy Mildew	1.6-2.1 lb/A	7 days	7-10 days
<b>Specific Directions:</b>				
		*Begin applications prior to disease development and when conditions are favorable for disease development		
		*Apply at 7 to 10-day intervals, if needed		
		*Use higher rates when conditions favor disease		
		*Do not apply more than 12.8 lbs product (9.6 lbs mancozeb)/A/season		
		*Minimum retreatment interval is 7 days		
		*Minimum preharvest interval is 7 days		
		*Do not apply this product with a U-boom device		
<b>Cabbage</b>	Alternaria Leaf Spot Downy Mildew	1.6-2.1 lb/A	7 days	7-10 days
<b>Specific Directions:</b>				
		*Begin applications prior to disease development and when conditions are favorable for disease development		
		*Apply at 7 to 10-day intervals, if needed		
		*Use higher rates when conditions favor disease		
		*Do not apply more than 12.8 IDS product (9.6 lbs mancozeb)/A/season		
		*Minimum retreatment interval is 7 days		
		*Minimum preharvest interval is 7 days		
		*Do not apply this product with a U-boom device		

## MANZATE PRO STICK

Fungicide  
General Use Pesticide

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Corn, Sweet</b>	Common Rust Helminthosporium Leaf Blight Gray Leaf Spot	1.5 lb/A	7 days	4-7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Use sufficient water for thorough coverage</li> <li>*Start applications when disease first appears and repeat at 4 to 7 day intervals</li> <li>*Do not apply within 7 days of harvest</li> <li>*Do not apply more than 22.5 lbs (17 lbs active) per acre per crop east of the Mississippi and AR and LA</li> <li>*Do not apply more than 7.5 lbs (5.6 lbs active) per acre per crop west of the Mississippi excepts AR and LA</li> <li>*Do not apply to sweet corn in home gardens</li> </ul>				
<b>Corn, Field</b>	Common Rust Helminthosporium Leaf Blight Gray Leaf Spot	1.5 lb/A	40 days	4-7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Do not apply within 40 days of harvest</li> <li>Do not apply more than 15 lbs (11.25 lbs active) per acre per crop</li> </ul>				
<b>Cucumber</b>	Anthracnose Cercospora Leaf Spot Downy Mildew Gummy Stem Blight Scab	2-3 lb/A	5 days	7-10 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Start applications when plants are in the two-Leaf stage and repeat at 7 to 10 day intervals</li> <li>*Use sufficient water and direct spray to provide thorough coverage of both upper and lower leaf surfaces</li> <li>*Do not apply within 5 days of harvest</li> <li>*Do not apply more than 24 lbs (18 lbs active) per acre per crop</li> </ul>				

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Cucurbits:</b> <b>Chinese wax gourd</b> <b>Gourd</b> <b>Muskmelon</b> <b>Pumpkin</b> <b>Squash, Summer</b> <b>Squash, Winter</b> <b>Watermelon</b>	Alternaria Leaf Spot Anthracnose Cercospora Leaf Spot Downy Mildew Gummy Stem Blight Scab	2-3 lb/A	5 days	7-10 days
	<b>Specific Directions:</b>			
	*Start applications when the plants are in the two leaf stage and repeat at 7- to 10-day intervals *Use sufficient water and direct spray to provide thorough coverage of both upper and lower leaf surfaces *For aerial applications, the minimum spray volume is 2 gallons per acre *Do not apply more than 25.6 lbs. product (19.2 lbs. active ingredient) per acre per year *Do not apply more than 8 applications per year *Do not apply within 5 days of harvest *Note: Some cantaloupe varieties (i.e. Harvest Queen, Gold Star, Super Star, Sweet and Early, and Saticoy) are sensitive to Manzate Pro-Stick fungicide *Consult UOG Cooperative Extension Service Specialist prior to use			
<b>Lettuce (Head, Leaf)</b>	Anthracnose Downy Mildew	1.6-2.1 lb/A	See label	7-10 days
	<b>Specific Directions:</b>			
	*Begin applications prior to disease development and when conditions are favorable for disease development *Apply at 7 to 10-day intervals, if needed *Use higher rates when conditions favor disease *Remove residues from head lettuce by stripping and trimming *For all states: minimum retreatment interval is 7 days *Do not apply this product with a U-boom device			

## MANZATE PRO STICK

Fungicide  
General Use Pesticide

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Melon:</b> <b>Cantaloupe</b> <b>Honeydew</b> <b>Watermelon</b>	Alternaria Leaf Spot Anthracnose Downy Mildew Gummy Stem Blight Cercospora Leaf Spot	2-3 lb/A	5 days	7-10 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Start applications when plants are in the two-Leaf stage and repeat at 7 to 10 day intervals</li> <li>*Use sufficient water and direct spray to provide thorough coverage of both upper and lower Leaf surfaces</li> <li>*Some varieties are sensitive to MANZATE PRO-STICK fungicide</li> <li>*Consult UOG Cooperative Extension Service Specialist prior to use</li> <li>*Do not apply within 5 days of harvest</li> <li>*Do not apply more than 24 lbs (18 lbs active) per acre per season</li> </ul>				
<b>Onion (Dry bulb)</b> <b>Garlic</b> <b>Shallot</b>	Botrytis Blight (Gray mold) Downy Mildew Neck Rot Purple Blotch	3 lb/A	7 days	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Follow a protective spray schedule starting when diseases are first reported in the area and repeat at 7 day intervals throughout the season</li> <li>*Do not apply within 7 days of harvest</li> <li>*Do not apply to exposed bulbs</li> <li>*Do not apply more than 30 lbs (22.5 lbs active) per acre per crop</li> </ul>				

## MANZATE PRO STICK

Fungicide  
General Use Pesticide

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Papaya</b>	Anthracnose (Colletotrichum) Phytophthora Fruit Rot Black Spot (Cercospora)	2.0-2.5 lb/A (minimum 50 gals per acre)	0 days	14 to 21 days
<b>Specific Directions:</b>				
	<ul style="list-style-type: none"> <li>*Begin at flowering; treat central column crown, blossom area and developing fruit. Repeat at 14 to 21 day intervals</li> <li>*Do not use more than 37 lbs (28 lbs active) per acre per year, i.e. do not make more than 14 applications at the maximum use rate per year</li> <li>*Minimum pre-harvest interval 0 days</li> </ul>			
<b>Peanut</b>	Ascochyta Web Blotch Cercospora Leaf Spot Rust	1-2 lb/A	14 days	7-14 days
<b>Specific Directions:</b>				
	<ul style="list-style-type: none"> <li>*Start application when disease first appears or is reported in area</li> <li>*Repeat sprays at 7 to 14 day intervals</li> <li>*Reduce sprays to a 7 day interval during humid weather</li> <li>*Do not apply within 14 days of harvest</li> <li>*Do not use more than 16 lbs (12 lbs active) per acre per crop</li> <li>*Do not feed treated vines to livestock</li> </ul>			
<b>Pepper</b>				
<b>Specific Directions:</b>				
	<ul style="list-style-type: none"> <li>*See label</li> </ul>			
<b>Squash, Summer</b>	Downy Mildew	2-3 lb/A	5 days	7-10 days
<b>Specific Directions:</b>				
	<ul style="list-style-type: none"> <li>*Start applications when plants are in the two-Leaf stage and repeat at 7 to 10 day intervals</li> <li>*Use sufficient water and direct spray to provide thorough coverage of both upper and lower leaf surfaces</li> <li>*Do not apply within 5 days of harvest</li> <li>*Do not apply more than 24 lbs (18 lbs active) per acre per crop</li> </ul>			

## MANZATE PRO STICK

Fungicide  
General Use Pesticide

CROP	DISEASE(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Tomato</b>				
<b>Specific Directions:</b> *See label				
<b>Tropical Fruits:</b>  <b>Mango</b> <b>Star apple</b>	Anthracnose Phytophthora Fruit Rot Black Spot (Cercospora)	2-2.5 lb/A	0 days	14-21 days
<b>Specific Directions:</b> *Start applications at flowering and continue at 14- to 21-day intervals *Direct spray to crown and blossom area *Use 20 to 100 gallons water per acre *Do not apply more than 37.3 lbs. product (28 lbs. active ingredient) per acre per year *Do not apply more than 14 applications per year *Applications may be made up to the day of harvest				

NEEM OIL \*\*

Fungicide/Insecticide/Miticide/Nematicide

OMRI Listed

## **NEEM OIL \*\***

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See label

# PERM-UP 3.2 EC

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Avocado</b>	Caterpillar Leafhoppers Loopers Scales Scale Crawlers Thrips Whiteflies	8 oz/A	7 days	7-10 days
<b>Specific Directions:</b> *Do not apply more than 32 oz. product (0.8 lbs.. a.i.) per acre per season *Apply when insects first appear and repeat as needed to provide control				
<b>Brassica Leafy Vegetables:</b>  <b>Broccoli Cauliflower</b>	Aphids (Suppression) Armyworms Diamondback Moths Loopers Plant Bugs Thrips	2-4 oz/A	1 day	5 days
<b>Specific Directions:</b> *Maximum rate for broccoli is 8 oz. product (0.2. lbs.. a.i.)/A *Do not apply more than 0.8 lbs.. a.i. per acre per season for broccoli *Do not apply more than 0.4 lbs.. a.i. per acre per season for cauliflower *Apply when insects first appear and repeat as needed to provide control				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Cabbage</b> <b>Chinese Cabbage</b>	Armyworms Cutworms Flea Beetles	4-8 oz/A	1 day	5-10 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Apply every 5-10 days or as needed</li> <li>*Do not apply more than 16 oz. Product (0.4 lbs.. a.i.) per acre per season (32 oz. product/0.8 lbs.. a.i. in Hawaii)</li> </ul>				
	Aphids (Suppression) Diamondback Moths Loopers	2-8 oz/A	1 day	5-10 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Apply every 5-10 days or as needed</li> <li>*Do not apply at intervals less than 5 days</li> <li>*Do not apply more than 16 oz. Product (0.4 lbs.. a.i.) per acre per season (32 oz. product/0.8 lbs.. a.i. in Hawaii)</li> </ul>				
<b>Corn, Sweet</b>	Armyworms Cutworms Flea Beetles Leafhoppers	4-8 oz/A	1 day	3-5 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Do not apply more than 32 oz. product (0.8 lbs.. a.i.) per acre per season</li> <li>*Apply every 3 to 5 days or as needed</li> <li>*Do not apply at intervals less than 3 days</li> <li>*Do not apply within 1 day of harvest</li> </ul>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Cucurbits:</b>  <b>Cantaloupe</b> <b>Cucumber</b> <b>Gourd</b> <b>Bitter melon</b> <b>Honeydew</b> <b>Muskmelon</b> <b>Pumpkin</b> <b>Squash</b> <b>(Summer, Winter)</b> <b>Watermelon</b>	Aphids Leafminers Squash Bugs	8 oz/A	0 days	7 days
	<b>Specific Directions:</b>  *Apply by air or ground equipment. By air, apply in a minimum of 4 gallons of water per acre *By ground, apply in a minimum of 20 gallons of water per acre *Use sufficient water to obtain full coverage of foliage			
	Cucumber Beetles Cutworms Leafhoppers Loopers Melonworms Plant Bugs	4-8 oz/A	0 days	7 days
	<b>Specific Directions:</b>  *Read the label. *Apply by air or ground equipment. By air, apply in a minimum of 4 gallons of water per acre *By ground, apply in a minimum of 20 gallons of water per acre *Use sufficient water to obtain full coverage of foliage			
<b>Eggplant</b>	Flea Beetles Leafminers Loopers	6 oz/A	3 days	7 days
	<b>Specific Directions:</b>  *Apply as needed, using sufficient water to obtain uniform coverage *Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre *By ground, apply in a minimum of 10 gallons of water per acre *Use sufficient water to obtain full coverage of foliage			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Garlic</b>	Armyworms Thrips	6-18 oz/A	1 day	10 days
	<b>Specific Directions:</b>			
	*Begin applications when pests appear and repeat as necessary to maintain control			
	*Use higher label rates as onion thrips population increases and avoid rescue situations			
	*Do not apply more than 32 oz. product (0.8 lbs.. a.i.) per acre per season			
	*Apply by air or ground equipment. By air, apply in a minimum of 5 gallons of water per acre			
	*By ground, apply in a minimum of 20 gallons of water per acre			
	*Use sufficient water to obtain full coverage of foliage			
	Cutworms Leafminers Stink Bugs	4-8 oz/A	1 day	10 days
	<b>Specific Directions:</b>			
	*Begin applications when pests appear and repeat as necessary to maintain control			
	*Use higher label rates as onion thrips population increases and avoid rescue situations			
	*Do not apply more than 32 oz. product (0.8 lbs.. a.i.) per acre per season			
	*Apply by air or ground equipment. By air, apply in a minimum of 5 gallons of water per acre			
	*By ground, apply in a minimum of 20 gallons of water per acre			
	*Use sufficient water to obtain full coverage of foliage			
<b>Horseradish</b>	Weevils	6 oz/A	30 days	10 days
	<b>Specific Directions:</b>			
	*Read the label			
	*Do not apply more than 18 oz. product (0.45 lbs.. a.i.) per acre per season			
	*As a spring preplant dip, soak sets for 30 minutes and air-dry before planting			
	*For foliar application, apply with ground equipment in a minimum spray volume of 20 gallons finished spray per acre. Make up to 3 foliar applications as needed to control Weevils adults during oviposition			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Leafy Vegetables:</b>  <b>Celery</b> <b>Lettuce (Head, Leaf)</b> <b>Parsley</b>	Aphids Armyworms Cutworms Leafminers	4-8 oz/A	1 day	7 days
	<b>Specific Directions:</b> *Read the label			
	Loopers Leafhoppers	2-8 oz/A	1 day	7 days
	<b>Specific Directions:</b> *Read the label			
<b>Onion</b>	Armyworms Thrips	6-12 oz/A	1 day	7 days
	<b>Specific Directions:</b> *Begin applications when pests appear and repeat as necessary to maintain control *Use higher label rates as onion thrips population increases and avoid rescue situations *Do not apply more than 40 oz. product (1.0 lbs.. a.i.) per acre per season *Apply by air or ground equipment. By air, apply in a minimum of 5 gallons of water per acre *By ground, apply in a minimum of 20 gallons of water per acre *Use sufficient water to obtain full coverage of foliage			
	Cutworms Leafminers Stink Bugs	4-12 oz/A	1 day	7 days
	<b>Specific Directions:</b> *Begin applications when pests appear and repeat as necessary to maintain control *Use higher label rates as onion thrips population increases and avoid rescue situations *Do not apply more than 40 oz. product (1.0 lbs.. a.i.) per acre per season *Apply by air or ground equipment. By air, apply in a minimum of 5 gallons of water per acre *By ground, apply in a minimum of 20 gallons of water per acre *Use sufficient water to obtain full coverage of foliage			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Peppers, Bell</b>	Cutworms Flea Beetles Leafminers Loopers Weevils	4-8 oz/A	3 days	5 days
<b>Specific Directions:</b>				
*Do not apply more than 32 oz. product (0.8 lbs.. a.i.) per acre per season				
*Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre				
*By ground, apply in a minimum of 10 gallons of water per acre				
<b>Tomato</b>	Armyworms Beetles Cutworms Leafminers Loopers	2-8 oz/A	0 days	7 days
<b>Specific Directions:</b>				
*Do not apply more than 24 oz. product (0.6 lbs.. a.i.) per acre per season				
*Do not apply to cherry tomatoes or other varieties which produce fruit less than one inch in diameter				
*Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre				
*By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage				

PURESPRAY GREEN OIL \*\*

Fungicide/Insecticide/Miticide

OMRI Listed

## **PURESPRAY GREEN OIL \*\***

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See label

**SAFER INSECTICIDAL SOAP \*\***

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Beans</b>	Aphids Grasshoppers Spider Mites Whiteflies	2.5 fl oz/gal water or 5 Tbsp/gal water	0 days	See label
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Apply when insects first appear or when damage occurs</li> <li>*Spray to wet all infested plant surfaces</li> <li>*One gallon of spray covers approximately 850 sq. ft. of growing area</li> <li>*For most pests repeat application after several days to eliminate newly hatched individuals</li> <li>*Do not make more than 3 sequential applications over a 2 week period</li> <li>*Do not apply during heat of day or when Leaf temperature exceeds 90°F</li> </ul>				
<b>Brassica Leafy Vegetables:</b> <b>Broccoli</b> <b>Cabbage</b> <b>Chinese Cabbage</b>	Aphids (Suppression) Leafhoppers Plant Bugs Whiteflies	2.5 fl oz/gal water or 5 Tbsp/gal water	0 days	See label
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Apply when insects first appear or when damage occurs</li> <li>*Spray to wet all infested plant surfaces</li> <li>*One gallon of spray covers approximately 850 sq. ft. of growing area</li> <li>*For most pests repeat application after several days to eliminate newly hatched individuals</li> <li>*Do not make more than 3 sequential applications over a 2 week period.</li> <li>*Do not apply during heat of day or when Leaf temperature exceeds 90°F</li> </ul>				

## SAFER INSECTICIDAL SOAP \*\*

Insecticide  
OMRI Listed

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Carrot Radish</b>	Aphids (Suppression) Leafhoppers Plant Bugs Whiteflies	2.5 fl oz/gal water or 5 Tbsp/gal water	0 days	See label
<b>Specific Directions:</b>				
		*Read the label *Apply when insects first appear or when damage occurs *Spray to wet all infested plant surfaces *One gallon of spray covers approximately 850 sq. ft. of growing area. *For most pests repeat application after several days to eliminate newly hatched individuals *Do not make more than 3 sequential applications over a 2 week period. *Do not apply during heat of day or when Leaf temperature exceeds 90°F		
<b>Citrus: Grapefruit Lemon Orange</b>	Aphids Scales Mites	2.5 fl oz/gal water or 5 Tbsp/gal water	0 days	7 days
<b>Specific Directions:</b>				
		*Read the label *Spray when insects first appear or when their populations attain spray level *Apply to achieve thorough coverage of infested branches and/or foliage *Repeat at weekly intervals or as needed *Avoid spraying when blossoms are present *Some marking of fruit may occur, especially when spray run-off occurs or when sooty mold is present		

## SAFER INSECTICIDAL SOAP \*\*

Insecticide  
OMRI Listed

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Cucurbits:</b> <b>Cantaloupe</b> <b>Cucumber</b> <b>Honeydew</b> <b>Muskmelon</b> <b>Pepino</b> <b>Squash, Summer</b> <b>Watermelon</b>	Aphids (Suppression) Mites Plant Bugs Whiteflies	2.5 fl oz/gal water or 5 Tbsp/gal water	0 days	See label
		<b>Specific Directions:</b>		
		*Read the label *Always apply to cucumbers at night or during the coolest part of the day *Spray to wet all infested plant surfaces. *One gallon of spray covers approximately 850 sq. ft. of growing area *Do not make more than 3 sequential applications over a 2 week period *Do not apply during heat of day or when Leaf temperature exceeds 90°F		
<b>Eggplant</b> <b>Pepper (Bell, Hot)</b> <b>Tomato</b>	Aphids (Suppression) Mites Whiteflies	2.5 fl oz/gal water or 5 Tbsp/gal water	0 days	See label
		<b>Specific Directions:</b>		
		*Read the label *Apply when insects first appear or when damage occurs *Spray to wet all infested plant surfaces *One gallon of spray covers approximately 850 sq. ft. of growing area *For most pests repeat application after several days to eliminate newly hatched individuals *Do not make more than 3 sequential applications over a 2 week period *Do not apply during heat of day or when Leaf temperature exceeds 90°F		

## SAFER INSECTICIDAL SOAP \*\*

Insecticide  
OMRI Listed

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Garlic</b>	Thrips (Suppression)	2.5 fl oz/gal water or 5 Tbsp/gal water	0 days	See label
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Apply when insects first appear or when damage occurs</li> <li>*Spray to wet all infested plant surfaces</li> <li>*One gallon of spray covers approximately 850 sq. ft. of growing area</li> <li>*For most pests repeat application after several days to eliminate newly hatched individuals</li> <li>*Do not make more than 3 sequential applications over a 2 week period.</li> <li>*Do not apply during heat of day or when Leaf temperature exceeds 90°F</li> </ul>				
<b>Lettuce (Head, Leaf)</b>	Aphids (Suppression)  Mites  Whiteflies	2.5 fl oz/gal water or 5 Tbsp/gal water	0 days	See label
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Apply when insects first appear or when damage occurs</li> <li>*Spray to wet all infested plant surfaces</li> <li>*Do not make more than 3 sequential applications over a 2 week period</li> <li>*Do not apply during heat of day or when Leaf temperature exceeds 90°F</li> </ul>				

**SEVIN 4F**

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Brassica Leafy Vegetables:</b>	Flea Beetles Leafhoppers	0.5-1 qts/A	See label	7 days
<b>Broccoli Cauliflower Cabbage Chinese Cabbage Collards Mustard Greens</b>	<b>Specific Directions:</b> *Read the label *Repeat applications as needed up to a total of 4 times but not more than once every 7 days <u>RESTRICTIONS AND PRECAUTIONS: BRASSICA LEAFY VEGETABLES</u> *For Broccoli and Cabbage Cauliflower do not apply within 3 days of harvest *For Chinese Cabbage, Collards, Kale, and Mustard Greens, do not apply within 14 days of harvest *Do not apply more than a total of 6 quarts per acre per crop			
	Armyworms Caterpillars Diamondback Moths Plant Bugs Stink Bugs	1-2 qts/A	3 See label	7 days
	<b>Specific Directions:</b> *Read the label *Repeat applications as needed up to a total of 4 times but not more than once every 7 days <u>RESTRICTIONS AND PRECAUTIONS: BRASSICA LEAFY VEGETABLES</u> *For Broccoli and Cabbage Cauliflower do not apply within 3 days of harvest *For Chinese Cabbage, Collards, Kale, and Mustard Greens, do not apply within 14 days of harvest *Do not apply more than a total of 6 quarts per acre per crop			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Citrus:</b> <b>Grapefruit</b> <b>Lemon</b> <b>Lime</b> <b>Orange</b> <b>Tangerine</b>	Cutworms Leafrollers	2-3 qts/A	5 days	14 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Repeat applications as necessary up to a total of 8 times but not more than once every 14 days</li> <li>*Do not apply more than a total of 20 qts/A/crop</li> <li>*Observe bee caution</li> <li>*Apply in sufficient volume for adequate coverage. This will vary depending on the pest and its severity, the tree condition, size, and density, and other factors</li> <li>*For scale control, apply when crawlers are present</li> <li>*For best control of Eriophyid mites including citrus rust mite, apply when pest populations are low</li> </ul>				
	Mites Plant Bugs Scales	3-5 qts/A	5 days	14 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Repeat applications as necessary up to a total of 8 times but not more than once every 14 days</li> <li>*Do not apply more than a total of 20 qts/A/crop</li> <li>*Observe bee caution</li> <li>*Apply in sufficient volume for adequate coverage. This will vary depending on the pest and its severity, the tree condition, size, and density, and other factors</li> <li>*For scale control, apply when crawlers are present</li> <li>*For best control of Eriophyid mites including citrus rust mite, apply when pest populations are low</li> </ul>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Beetles Weevils	5-7.5 qts/A	5 days	14 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Repeat applications as necessary up to a total of 8 times but not more than once every 14 days</li> <li>*Do not apply more than a total of 20 qts/A/crop</li> <li>*Observe bee caution</li> <li>*Apply in sufficient volume for adequate coverage. This will vary depending on the pest and its severity, the tree condition, size, and density, and other factors</li> <li>*For scale control, apply when crawlers are present</li> <li>*For best control of Eriophyid mites including citrus rust mite, apply when pest populations are low</li> </ul>				
<b>Corn, Field</b>	Armyworms Flea Beetles Japanese Beetles Leafhoppers	1-2 qt/A	See label	14 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Observe bee caution</li> <li>*Repeat applications as needed up to a total of 4 times but not more than once every 14 days</li> <li>*Do not apply more than a total of 8 qts/acre/crop</li> <li>*Optimum timing and good coverage are essential for effective control</li> <li>*Do not apply within 48 days of harvest of grain and fodder or within 14 days of harvest or grazing of forage or silage</li> </ul>				
	Cutworms	2 qt/A	See label	14 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Observe bee caution</li> <li>*Repeat applications as needed up to a total of 4 times but not more than once every 14 days</li> <li>*Do not apply more than a total of 8 qts/acre/crop</li> <li>*Optimum timing and good coverage are essential for effective control</li> <li>*Do not apply within 48 days of harvest of grain and fodder or within 14 days of harvest or grazing of forage or silage</li> </ul>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Corn, Sweet</b>	Armyworms Flea Beetles Japanese Beetles Leafhoppers	1-2 qt/A	See label	3 days
	<b>Specific Directions:</b> *Read the label *Observe bee caution *Repeat applications as needed up to a total of 8 times but not more than once every 3 days *Do not apply more than a total of 16 qts/acre/crop *Optimum timing and good coverage are essential for effective control *Do not apply within 2 days of harvest of ears, within 14 days of harvest or grazing of forage, or within 48 days of fodder			
	Cutworms	2 qt/A	See label	3 days
	<b>Specific Directions:</b> *Read the label *Observe bee caution *Repeat applications as needed up to a total of 8 times but not more than once every 3 days *Do not apply more than a total of 16 qts/acre/crop *Optimum timing and good coverage are essential for effective control *Do not apply within 2 days of harvest of ears, within 14 days of harvest or grazing of forage, or within 48 days of fodder			
<b>Cucurbits:</b>  <b>Cucumbers</b> <b>Melons</b> <b>Pumpkins</b> <b>Squash</b>	Caterpillars Melonworms	0.5-1 qt/A	3 days	7 days
	<b>Specific Directions:</b> *Read the label *Repeat applications as necessary up to a total of 6 times but not more often than once every 7 days *Do not apply more than a total of 6 qts/acre/crop *Observe plant response precautions *For optimum control of Squash Bugs, apply sufficient spray volume for thorough coverage and time sprays for early morning or late afternoon			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Cucumber Beetles Flea Beetles Leafhoppers Squash Bugs	1 qt/A	3 days	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Repeat applications as necessary up to a total of 6 times but not more often than once every 7 days</li> <li>*Do not apply more than a total of 6 qts/acre/crop</li> <li>*Observe plant response precautions</li> <li>*For optimum control of Squash Bugs, apply sufficient spray volume for thorough coverage and time sprays for early morning or late afternoon</li> </ul>				
<b>Fruiting Vegetables:</b>  <b>Eggplant</b> <b>Peppers (Bell, Hot)</b> <b>Tomatoes</b>	Armyworms Beetles Caterpillars Plant Bugs Stink Bugs (Suppression) Thrips (Suppression)	1-2 qt/A	3 days	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Repeat applications as necessary up to a total of 7 times but not more often than once every 7 days</li> <li>*Do not apply more than a total of 8 qts/acre/crop</li> <li>*Thorough coverage is essential to effectively suppress stink Bugs</li> </ul>				
	Flea Beetles Leafhoppers	0.5-1 qt/A	3 days	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Repeat applications as necessary up to a total of 7 times but not more often than once every 7 days</li> <li>*Do not apply more than a total of 8 qts/acre/crop</li> <li>*Thorough coverage is essential to effectively suppress stink Bugs</li> </ul>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Cutworms	2 qt/A	3 days	7 days
	<b>Specific Directions:</b>			
	<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Repeat applications as necessary up to a total of 7 times but not more often than once every 7 days</li> <li>*Do not apply more than a total of 8 qts/acre/crop</li> <li>*Thorough coverage is essential to effectively suppress stink Bugs</li> </ul>			
<b>Leafy Vegetables:</b>  <b>Celery Lettuce (Head, Leaf) Parsley</b>	Flea Beetles Leafhoppers	0.5-1 qt/A	14 days	7 days
	<b>Specific Directions:</b>			
	<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Repeat applications as necessary up to a total of 5 times but not more often than once every 7 days</li> <li>*Do not apply more than a total of 6 qts/acre/crop</li> </ul>			
	Armyworms Caterpillars Plant Bugs Stink Bugs	1-2 qt/A	14 days	7 days
	<b>Specific Directions:</b>			
	<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Repeat applications as necessary up to a total of 5 times but not more often than once every 7 days</li> <li>*Do not apply more than a total of 6 qts/acre/crop</li> </ul>			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Legumes:</b>  <b>Beans (Fresh, Dried)</b>	Caterpillars Cucumber Beetles Cutworms Japanese Beetles Loopers Plant Bugs	0.5-1 qt/A	See label	7 days
	<b>Specific Directions:</b>  *Read the label *Repeat applications as necessary up to a total of 4 times but not more often than once every 7 days *Do not apply more than a total of 6 qts/acre/crop *Do not apply within 14 days of grazing or harvest for forage or within 3 days of harvest of fresh beans or peas or within 21 days of harvest of dried peas, seed, or hay *Observe plant response precautions *For cutworm control, this product is most effective against species which feed on the upper portions of the plant *Use lower rates for light to moderate populations and smaller instars and to provide maximum survival of beneficial insects and spider. Use the higher rates for heavy populations and larger instars			
	Flea Beetles Leafhoppers Thrips	1 qt/A	See label	7 days
	<b>Specific Directions:</b>  *Read the label *Repeat applications as necessary up to a total of 4 times but not more often than once every 7 days *Do not apply more than a total of 6 qts/acre/crop *Do not apply within 14 days of grazing or harvest for forage or within 3 days of harvest of fresh beans or peas or within 21 days of harvest of dried peas, seed, or hay *Observe plant response precautions *For cutworm control, this product is most effective against species which feed on the upper portions of the plant *Use lower rates for light to moderate populations and smaller instars and to provide maximum survival of beneficial insects and spider. Use the higher rates for heavy populations and larger instars			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Armyworms Cutworms Stink Bugs	1-1.5 qt/A	See label	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Repeat applications as necessary up to a total of 4 times but not more often than once every 7 days</li> <li>*Do not apply more than a total of 6 qts/acre/crop</li> <li>*Do not apply within 14 days of grazing or harvest for forage or within 3 days of harvest of fresh beans or peas or within 21 days of harvest of dried peas, seed, or hay</li> <li>*Observe plant response precautions</li> <li>*For cutworm control, this product is most effective against species which feed on the upper portions of the plant</li> <li>*Use lower rates for light to moderate populations and smaller instars and to provide maximum survival of beneficial insects and spider. Use the higher rates for heavy populations and larger instars</li> </ul>				
Okra	Stink Bugs	1-1.5 qt/A	3 days	8 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than a total of 6 qts/A/crop</li> <li>*Apply using ground equipment in sufficient volume to insure good coverage</li> <li>*Apply as needed on 6 to 8 day intervals</li> </ul>				
<b>Root and Tuber Crops:</b>  <b>Carrots</b> <b>Horseradish</b> <b>Radish</b> <b>Potato</b>	Flea Beetles Leafhoppers	0.5-1 qt/A	7 days	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Repeat applications as necessary up to a total of 6 times but not more often than once every 7 days</li> <li>*Do not apply more than a total of 6 quarts per acre per crop</li> </ul>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Armyworms Beetles Caterpillars Cutworms Plant Bugs Stink Bugs	1-2 qt/A	7 days	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Repeat applications as necessary up to a total of 6 times but not more often than once every 7 days</li> <li>*Do not apply more than a total of 6 qts/acre/crop</li> <li>*For cutworm control, this product is most effective against species which feed on the upper portions of the plant</li> </ul>				
<b>Sweet Potato</b>	Armyworms Beetles Caterpillars Cucumber Beetles Flea Beetles Weevils	1-2 qt/A	7 days	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*For foliar sprays, repeat applications as necessary up to a total of 8 times but not more often than once every 7 days</li> <li>*Do not apply more than a total of 8 qts/acre/crop with in-season sprays</li> <li>*Do not apply more than a total of 1.2 qts/A as a preplant dip treatment</li> </ul>				

**SEVIN SL**

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Brassica Leafy Vegetables:</b>	Flea Beetles Leafhoppers	0.5-1 qts/A	3 days	7 days
<b>Broccoli Cabbage Chinese Cabbage (napa)</b>	<b>Specific Directions:</b> *Repeat applications as needed up to a total of 4 times *Do not apply more than a total of 6 quarts per acre per crop per year (6 pounds active ingredient per acre per crop per year) *Application is permitted only within 30 days from the date of crop emergence or the date of transplanting *Bee caution: do not apply this product to target crops or weeds in bloom			
	Armyworms Diamondback Moths Stink Bugs Plant Bugs	1-2 qts/A	3 days	7 days
	<b>Specific Directions:</b> *Repeat applications as needed up to a total of 4 times *Do not apply more than a total of 6 quarts per acre per crop per year (6 pounds active ingredient per acre per crop per year) *Application is permitted only within 30 days from the date of crop emergence or the date of transplanting *Bee caution: do not apply this product to target crops or weeds in bloom			
<b>Brassica Leafy Vegetables:</b>	Flea Beetles Leafhoppers	0.5-1 qts/A	14 days	7 days
<b>Chinese Cabbage (Bok Choy) Collards Mustard Greens</b>	<b>Specific Directions:</b> *Repeat applications as needed up to a total of 14 times but not more often than once every 7 days *Do not apply more than a total of 6 quarts per acre per crop per year (6 pounds active ingredient per acre per crop per year) *Application is permitted only within 30 days from the date of crop emergence or the date of transplanting *Bee caution: do not apply this product to target crops or weeds in bloom			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Armyworms Diamondback Moths Stink Bugs Plant Bugs	1-2 qts/A	14 days	7 days
<b>Specific Directions:</b>				
<p>*Repeat applications as needed up to a total of 14 times but not more often than once every 7 days</p> <p>*Do not apply more than a total of 6 quarts per acre per crop per year (6 pounds active ingredient per acre per crop per year)</p> <p>*Application is permitted only within 30 days from the date of crop emergence or the date of transplanting</p> <p>*Bee caution: do not apply this product to target crops or weeds in bloom</p>				
<b>Citrus:</b>  <b>Grapefruit</b> <b>Lemon</b> <b>Lime</b> <b>Orange</b>	Cutworms Leafrollers	2-3 qts/A	5 days	14 days
<b>Specific Directions:</b>				
<p>*Repeat applications as needed up to a total of 8 times but not more often than once every 14 days</p> <p>*Bee caution: do not apply this product to target crops or weeds in bloom. Moving weeds or cover crop bloom prior to applying this product will reduce hazard to bees. Not for use on trees intended for resale of produce or other commercial use. Not for use on trees covering areas greater than 1,000 Ft<sup>2</sup></p>				
	Mites Plant Bugs Scales	3-5 qts/A	5 days	14 days
<b>Specific Directions:</b>				
<p>*Repeat applications as needed up to a total of 8 times but not more often than once every 14 days</p> <p>*Bee caution: do not apply this product to target crops or weeds in bloom. Moving weeds or cover crop bloom prior to applying this product will reduce hazard to bees. Not for use on trees intended for resale of produce or other commercial use. Not for use on trees covering areas greater than 1,000 Ft<sup>2</sup></p> <p>*For scale, apply when pest populations are low</p> <p>*For best results on Eriophyid Mites, including citrus rust mite, apply when pest populations are low</p>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Weevils	5 qts/A	5 days	14 days
<b>Specific Directions:</b>				
<p>*Repeat applications as needed up to a total of 8 times but not more often than once every 14 days</p> <p>*Bee caution: do not apply this product to target crops or weeds in bloom. Moving weeds or cover crop bloom prior to applying this product will reduce hazard to bees. Not for use on trees intended for resale of produce or other commercial use. Not for use on trees covering areas greater than 1,000 Ft<sup>2</sup></p>				
<b>Fruiting Vegetables:</b>  <b>Eggplant</b> <b>Pepinos</b> <b>Pepper (Bell, Chili, Cooking, Sweet)</b> <b>Tomato</b>	Armyworms Stink Bugs (suppression) Thrips (suppression)	1-2 qts/A	3 days	7 days
<b>Specific Directions:</b>				
<p>*Repeat applications as needed up to a total of 7 times but not more often than once every 7 days</p> <p>*Thorough coverage is necessary to effectively suppress Stink Bugs</p> <p>*When disease transmission is suspected, monitor fields following application and retreat if reinfestation occurs but not more often than once every 7 days</p> <p>*Do not apply more than a total of 8 quarts per acre per crop per year (8 pounds active ingredient per acre per crop per year)</p> <p>*Bee caution: do not apply this product to target crops or weeds in bloom</p>				
	Flea Beetles Leafhoppers	0.5-1 qts/A	3 days	7 days
<b>Specific Directions:</b>				
<p>*Repeat applications as needed up to a total of 7 times but not more often than once every 7 days</p> <p>*Thorough coverage is necessary to effectively suppress Stink Bugs</p> <p>*When disease transmission is suspected, monitor fields following application and retreat if reinfestation occurs but not more often than once every 7 days</p> <p>*Do not apply more than a total of 8 quarts per acre per crop per year (8 pounds active ingredient per acre per crop per year)</p> <p>*Bee caution: do not apply this product to target crops or weeds in bloom</p>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
	Cutworms	2 qts/A	3 days	7 days
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Repeat applications as needed up to a total of 7 times but not more often than once every 7 days</li> <li>*Thorough coverage is necessary to effectively suppress Stink Bugs</li> <li>*When disease transmission is suspected, monitor fields following application and retreat if reinfestation occurs but not more often than once every 7 days</li> <li>*Do not apply more than a total of 8 quarts per acre per crop per year (8 pounds active ingredient per acre per crop per year)</li> <li>*Bee caution: do not apply this product to target crops or weeds in bloom</li> <li>*For cutworm, this product is more effective against species which feed on the upper portions of the plant</li> </ul>				
<b>Leafy Vegetables:</b>	Flea Beetles Leafhoppers	0.5-1 qts/A	14 days	7 days
<b>Celery Lettuce (Head, Leaf) Parsley</b>	<b>Specific Directions:</b>			
	<ul style="list-style-type: none"> <li>*Repeat applications as needed up to a total of 5 times but not more often than once every 7 days</li> <li>*Do not apply more than a total of 6 quarts per acre per crop per year (6 pounds active ingredient per acre per crop per year)</li> <li>*Bee caution: do not apply this product to target crops or weeds in bloom</li> </ul>			
	Armyworms Stink Bugs Plant Bugs	1-2 qts/A	14 days	7 days
	<b>Specific Directions:</b>			
	<ul style="list-style-type: none"> <li>*Repeat applications as needed up to a total of 5 times but not more often than once every 7 days</li> <li>*Do not apply more than a total of 6 quarts per acre per crop per year (6 pounds active ingredient per acre per crop per year)</li> <li>*Bee caution: do not apply this product to target crops or weeds in bloom</li> </ul>			

# Sluggo SNAIL & SLUG BAIT \*\*

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Avocado</b>	Slugs	40 lbs/A	0	As needed
<b>Grapefruit</b>	Snails			
<b>Lemon</b>	<b>Specific Directions:</b>			
<b>Lime</b>	*Read the label.			
<b>Orange</b>	*Broadcast liberally under trees, around irrigation pipes, farm buildings and any other place where slugs and snails may congregate.			
<b>Tangerine</b>	*Use only as a baiting treatment to be applied directly to the soil area beneath plants.			
	*Do not allow bait pellet to come in contact with parts of plant that may be used for food or feed purposes.			
	*Slug & Snail Bait should not be applied to dry soil.			
	*Applications should be made following an irrigation for best results.			
	*Apply any time of the day, but evening applications are preferred.			
	*Do not re-water for 48 hours after application.			
<b>Beans</b>	Slugs	30-40 lbs/A	0	As needed
<b>Bittermelon</b>	Snails	or 1 lb/1,100 sq Ft		
<b>Broccoli</b>				
	<b>Specific Directions:</b>			
	*Read the label.			
	*Use only as a baiting treatment to be applied directly to the soil area beneath plants.			
	*Do not allow bait pellet to come in contact with parts of plant that may be used for food or feed purposes.			
	*Slug & Snail Bait should not be applied to dry soil.			
	*Applications should be made following an irrigation for best results.			
	*Apply any time of the day, but evening applications are preferred.			
	*Do not re-water for 48 hours after application.			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Cabbage</b>	Slugs	1,500 sq. ft. of soil surface	0	As needed
<b>Cantaloupe</b>				
<b>Carrot</b>				
<b>Cauliflower</b>				
<b>Corn</b>				
<b>Cucumber</b>				
<b>Eggplant</b>				
<b>Garlic</b>				
<b>Gourds</b>				
<b>Honeydew</b>				
<b>Horseradish</b>				
<b>Lettuce</b>				
<b>Muskmelon</b>				
<b>Mustard Greens</b>				
<b>Okra</b>				
<b>Pepino</b>				
<b>Pepper, Bell</b>				
<b>Pepper, Hot</b>				
<b>Pumpkin</b>				
<b>Radish</b>				
<b>Squash, Summer</b>				
<b>Squash, Winter</b>				
<b>Sweet Potato</b>				
<b>Tomato</b>				
<b>Watermelon</b>				
<b>Specific Directions:</b>				
*Read the label.				
*Use only as a baiting treatment to be applied directly to the soil area beneath plants.				
*Do not allow bait pellet to come in contact with parts of plant that may be used for food or feed purposes.				
*Slug & Snail Bait should not be applied to dry soil.				
*Applications should be made following an irrigation for best results.				
*Apply any time of the day, but evening applications are preferred.				
*Do not re-water for 48 hours after application.				

TRIACT 70 \*\*

Fungicide/Insecticide/Miticide

OMRI Listed

## **TRIACT 70 \*\***

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See label

# VENDEX 50WP

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Citrus:</b> <b>Grapefruit</b> <b>Lemon</b> <b>Lime</b> <b>Orange</b> <b>Tangerine</b>	Mites	2-4 lbs./A	7 days	See label
	<b>Specific Directions:</b>			
	*Read the label *Apply when Mites first appear *Make no more than 2 applications per year			
<b>Eggplant</b>	Mites	2-3 lbs./A	3 days	See label
	<b>Specific Directions:</b>			
	*Read the label *Apply when Mites first appear *Repeat as necessary to maintain mite control, making no more than 3 applications per year *Apply no more than 9 lbs. per acre per year			
<b>Papaya</b>	Mites	2 lbs./A	7 days	See label
	<b>Specific Directions:</b>			
	*Read the label *Apply when Mites first appear *Repeat as necessary to maintain mite control, making no more than 4 applications per season *Apply no more than 8 lbs. per acre per year *Do not apply more than once per month to bearing trees			

# VYDATE L

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Cantaloupe</b>	Aphids	2-4 pt/A	1 day	7 days
<b>Cucumber</b>	Leafminers			
<b>Honeydew Melon</b>	<b>Specific Directions:</b> *Read the label *Do not apply more than 16 pts (2 gals) Vydate L per acre per season *Apply in sufficient water to obtain uniform coverage of foliage *Make applications when insects first appear *Apply the low rate for light infestations of insects and the high rate for severe infestations *Where Leafminer infestations occur annually, initiate treatment schedule 2-4 weeks after planting and repeat weekly or as needed			
<b>Pumpkin</b>	Nematodes	See label	See label	See label
<b>Squash (Summer, Winter)</b>	<b>Specific Directions:</b> *Read the label *Do not apply more than 16 pts (2 gals) Vydate L per acre per season *Apply in sufficient water to obtain uniform coverage of foliage *Make applications when insects first appear *Apply the low rate for light infestations of insects and the high rate for severe infestations *Where Leafminer infestations occur annually, initiate treatment schedule 2-4 weeks after planting and repeat weekly or as needed			
<b>Watermelon</b>				
<b>Carrot</b>	Nematodes	See label	See label	See label
	<b>Specific Directions:</b> *Read the label *Do not apply more than 20 pts (2.5 gals) Vydate L per acre per season			

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Citrus (Fruit-bearing)</b>	Mites	0.25-1 pt/100 gal water	7 days	See label
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Spray to run-off using up to 400 gals of water per acre</li> <li>*Do not apply more than 4 qts of product per acre</li> <li>*Begin applications as soon as significant infestations are found and continue on an as needed basis</li> <li>*Under light to moderate pressure, apply on 4 to 6 week intervals or as needed; whereas under moderate to heavy pressure, apply every 2 to 3 weeks as long as the infestation continues</li> <li>*Do not make more than 6 applications/year</li> </ul> <p>NOTE: Do not graze livestock in treated orchards. Do not handle plants or come in contact with foliage within 3 days of application. This product is toxic to bees and should not be applied when bees are actively visiting the area</p> <p>*Do not apply more than 28 pts (3.5 gals) Vydate L per acre per year</p>				
	Thrips	2-4 pt/A	7 days	See label
<b>Specific Directions:</b>				
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Apply in sufficient water (100-500 gals per acre) to give good coverage</li> </ul> <p>NOTE: Do not graze livestock in treated orchards. Do not handle plants or come in contact with foliage within 3 days of application. This product is toxic to bees and should not be applied when bees are actively visiting the area</p> <p>*Do not apply more than 28 pts (3.5 gals) Vydate L per acre per year</p>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL
<b>Citrus (Non Fruit-bearing)</b>	Aphids Beetles Leafhoppers Leafminers Mealybugs Mites Scales Thrips Whiteflies (Foliar Treatment)	See label	See label	See label
<b>Specific Directions:</b>				
<p>*Read the label</p> <p>NOTE: Use only on commercial plantings; do not use on home plantings. Since varieties are numerous, continually changing, and may respond differently to Vydate L, test Vydate L on a small scale before proceeding to large-scale application. Varietal response may also vary if Vydate L is mixed with other products</p>				
<p>*Do not apply more than 32 pts (4 gals) per acre per season</p>				
	Nematodes	See label	See label	See label
<b>Specific Directions:</b>				
<p>*Read the label</p> <p>NOTE: Use only on commercial plantings; do not use on home plantings. Since varieties are numerous, continually changing, and may respond differently to Vydate L, test Vydate L on a small scale before proceeding to large-scale application. Varietal response may also vary if Vydate L is mixed with other products</p>				
<p>*Do not apply more than 32 pts (4 gals) per acre per season</p>				
<b>Eggplant</b>	Aphids Beetles Leafminers Mites	2-4 pts/A	1 day	10 days-3 weeks
<b>Specific Directions:</b>				
<p>*Read the label.</p> <p>*Do not apply more than 12 pts (1.5 gals) Vydate L per acre per season</p>				

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL				
	Nematodes	See label	See label	See label				
<b>Specific Directions:</b>								
<ul style="list-style-type: none"> <li>*Read the label.</li> <li>*Do not apply more than 24 pts (3 gals) Vydate L per acre per season</li> </ul>								
<b>Pepper (Bell, Hot)</b>	Aphids Leafminers Weevils (Foliar Treatment)	2-4 pt/A	7 days	1-2 weeks				
<b>Specific Directions:</b>								
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 14 pts (1.75 gals) Vydate L per acre per season</li> <li>*Apply in sufficient water to obtain uniform coverage</li> <li>*Make applications when insects first appear</li> <li>*Apply low rates for light infestations of insects</li> <li>*Use highest recommended rates and shorter intervals for controlling severe infestations</li> </ul>								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Nematodes</td> <td style="padding: 2px;">See label</td> <td style="padding: 2px;">See label</td> <td style="padding: 2px;">See label</td> </tr> </table>					Nematodes	See label	See label	See label
Nematodes	See label	See label	See label					
<b>Specific Directions:</b>								
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 14 pts (1.75 gals) Vydate L per acre per season</li> <li>*Apply in sufficient water to obtain uniform coverage</li> <li>*Make applications when insects first appear</li> <li>*Apply low rates for light infestations of insects</li> <li>*Use highest recommended rates and shorter intervals for controlling severe infestations</li> </ul>								
<b>Pineapple</b>	Nematodes	See label	See label	See label				
<b>Specific Directions:</b>								
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 4 gals Vydate L per acre per year</li> <li>*Do not harvest or graze treated fields within 30 days of application</li> </ul>								

CROP	PEST(S) CONTROLLED	RATE	DAYS TO HARVEST	SPRAYING INTERVAL				
<b>Sweet Potato</b>	Nematodes	See label	See label	See label				
<b>Specific Directions:</b>								
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 24 pts (3 gals) Vydate L per acre per season</li> </ul>								
<b>Tomato</b>	Aphids Beetles Leafminers	2-4 pt/A	3 days	5-7 days				
<b>Specific Directions:</b>								
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 32 pts (4 gals) Vydate L per acre per season</li> <li>*Apply in sufficient water to obtain uniform coverage</li> <li>*Make applications when insects first appear</li> <li>*Apply low rates for light infestations of insects</li> <li>*Use highest recommended rates and shorter intervals for controlling severe infestations</li> </ul>								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Nematodes</td> <td style="padding: 2px;">See label</td> <td style="padding: 2px;">See label</td> <td style="padding: 2px;">See label</td> </tr> </table>					Nematodes	See label	See label	See label
Nematodes	See label	See label	See label					
<b>Specific Directions:</b>								
<ul style="list-style-type: none"> <li>*Read the label</li> <li>*Do not apply more than 32 pts (4 gals) Vydate L per acre per season</li> <li>*Apply in sufficient water to obtain uniform coverage</li> <li>*Make applications when insects first appear</li> <li>*Apply low rates for light infestations of insects</li> <li>*Use highest recommended rates and shorter intervals for controlling severe infestations</li> </ul>								

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**Consult your agricultural extension agent for information on pesticide use for this crop.**

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## **IBA**

***Consult your agricultural extension agent for information on pesticide use for this crop***

## **Jackfruit**

***Consult your agricultural extension agent for information on pesticide use for this crop***

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### **Weevils**

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### **Slugs and Snails**

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### **Insects, Mites and Nematodes**

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**Consult your agricultural extension for information on pesticide use for this crop.**

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**Consult your agricultural extension agent for information on pesticide use for this crop.**

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# **6<sup>th</sup> Edition 2022**

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## **University of Guam College of Natural & Applied Sciences Cooperative Extension & Outreach**

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For additional information on pesticides and pest control, please contact an agricultural extension agent at the University of Guam, Guam Cooperative Extension Services, College of Natural & Applied Sciences. You may call (671) 735-2080/81.

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