

# SOUTHERN AG

## LAWN & GARDEN PROBLEM SOLVER



Revised January 2007

This book is intended as a quick reference and not as a replacement for the pesticide label. Read the product label completely before using any product. Due to the EPA, labeled crops, pests and rates may change. Crop and pest information is also available from University extension and county agents. Please refer to the SOUTHERN AG Lawn & Garden Product Guide for product information. Sample labels are available at [www.southernag.com](http://www.southernag.com)

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# **SOUTHERN AG LAWN & GARDEN PRODUCT LIST**

## **BAITS**

CUTWORM AND CRICKET BAIT  
MOLE CRICKET BAIT  
PAYBACK FIRE ANT BAIT  
SNAIL AND SLUG BAIT

## **FERTILIZERS**

ALUMINUM SULFATE  
STOP BLOSSOM - END ROT OF TOMATOES  
CALCIUM NITRATE  
CHELATED CITRUS NUTRITIONAL SPRAY  
CHELATED GENERAL PURPOSE  
MINOR ELEMENT SPRAY  
CHELATED LIQUID IRON  
CHELATED PALM NUTRITIONAL  
CONTROLLED - RELEASE FERTILIZER 14-14-14  
CONTROLLED - RELEASE FERTILIZER 18-6-12  
ESSENTIAL MINOR ELEMENTS  
IRON GRANULES  
MAGNESIUM SULFATE  
MANGANESE SULFATE  
PLANT STARTER SOLUBLE FERTILIZER 12-48-8  
PLUG FAST 18-18-6  
SOIL ACIDIFIER  
POWERPAK 20-20-20 SOLUBLE FERTILIZER  
MAX ACID 30-10-10 SOLUBLE FERTILIZER  
START, ROOT AND BLOOM 10-30-20  
SULFATE OF POTASH  
SUPER PHOSPHATE  
ZINC SULFATE  
10-10-10 ALL PURPOSE FERTILIZER

## **FUNGICIDES**

BAYLETON - SYSTEMIC FUNGICIDE  
TURF FUNGICIDE GRANULAR with Bayleton  
CAPTAN FUNGICIDE  
LIQUID COPPER FUNGICIDE  
NEUTRAL COPPER FUNGICIDE  
DITHANE M-45  
LIQUID ORNAMENTAL & VEGETABLE FUNG.  
RD 20 DISINFECTANT  
WETTABLE OR DUSTING SULFUR  
TERRACLOR FUNGICIDE 75% WETTABLE  
THIOMYL SYSTEMIC FUNGICIDE  
TOMATO DUST

## **HERBICIDES**

2, 4-D AMINE WEED KILLER  
ATRAZINE HERBICIDE  
BASAGRAN SEDGE CONTROL  
BRUSH KILLER  
COPPER SULFATE GRANULAR CRYSTALS  
GLYPHOSATE 41% - WEED PRO  
SURFLAN A.S. PRE-EMERGENT HERBICIDE  
LAWN WEED KILLER WITH TRIMEC  
LAWN WEED KILLER RTU  
VANTAGE GRASS KILLER  
WEED GUN GLYPHOSATE READY TO USE

## **INSECTICIDES**

BIFENTHRIN LAWN INSECTICIDE GRANULES  
BORIC ACID ROACH POWDER  
5% CARBARYL DUST  
10% CARBARYL DUST  
DIPEL DUST  
FIRE ANT CONTROL GRANULES  
FLY BAIT  
GARDEN INSECT DUST with Permethrin  
HOME PEST CONTROL SPRAY  
LIVESTOCK DUST  
5% MALATHION DUST  
MALATHION 50% E.C.  
MALATHION-OIL CITRUS & ORNAMENTAL  
MOLE CRICKET & CHINCH  
LAWN INSECT CONTROL  
CONSERVE- NATURALYTE INSECT CONTROL  
TRIPLE ACTION NEEM OIL  
PARAFINE HORTICULTURAL OIL  
PERMETROL LAWN INSECTICIDE GRANULES  
PERMETROL LAWN INSECTICIDE  
& ROSE, FLOWER, FRUIT & VEGETABLE  
PET & LIVESTOCK PEST CONTROL SPRAY  
NATURAL PYRETHRIN CONCENTRATE  
THURICIDE HPC

## **MISCELLANEOUS**

HERBI - OIL 83-17  
RD 20 DISINFECTANT  
SPREADER-STICKER  
SURFACTANT FOR HERBICIDES  
STUMP REMOVER

# FRUIT & NUTS

<u>CROP</u>	<u>CONTROLS</u>	<u>PRODUCT</u>	<u>RATE</u>
All Fruits	certain diseases/insects/mites	Triple Action Neem Oil	1 oz (2 TBS) per gal
All Nuts	certain diseases/insects/mites	Triple Action Neem Oil	1 oz (2 TBS) per gal
Almonds	navel orange worm, twig borer	Permetrol	3 tsp per gal
Apples	many diseases	Captan Fungicide	2-4 TBS per gal
	many diseases	Liquid Copper (new)	1 - 6 Tsp per gal
	many insects	Malathion 50% EC	2 tsp per gal
	leaf miners, leaf rollers	Conserve-Naturalyte	2 ozs per gal
	many insect pests	Permetrol	3 tsp per gal
	many insect pests	Sevin 50 W	5 TBS per 3 gal
	thinning	Sevin 50 W	2.5 - 5 TBS per 3 gal
	scale	Parafine Hort Oil	6 TBS per gal (dormant use)
scale	Soluble Oil Spray	6 TBS per gal (dormant use)	
Apricots	many diseases	Captan Fungicide	1/2 - 3 TBS per gal
	many diseases	LOV Fungicide	2 TBS per gal
	worms, leafminers, fruit flies	Conserve-Naturalyte	2 ozs per gal
Avocados	Anthracnose	Liquid Copper (new)	4 tsp per gal
	Anthracnose, Bloth, Scab	Neutral Copper	4 tsp per gal
	scale, white fly	Malathion-Oil	2 TBS per gal
	scale, white fly	Parafine Hort Oil	3.5 TBS per gal
	scale, white fly	Soluble Oil Spray	3.5 TBS per gal
Bananas	Sigatoka	Liquid Copper (new)	1-2 tsp per gal
	Black pitting	Liquid Copper (new)	2.5 oz per gallon
	Sigatoka	Dithane m-45	2 - 3 TBS per gal per 435 sq ft
Blueberry	many diseases	Captan Fungicide	1 - 3 TBS per gal
	cankers	Liquid Copper (new)	4 - 5 tsp per gal
Caneberries	many diseases	Liquid Copper (new)	1 - 6 tsp per gal
Cherry	many diseases	Captan Fungicide	1 - 2 TBS per gal
	Brown Rot Blossom, Blight	Liquid Copper (new)	4 - 6 tsp per gal
	many diseases	LOV Fungicide	2 TBS per gal
	many insects	Malathion 50% EC	1 tsp per gal
	worms, leafminers, fruit flies	Conserve-Naturalyte	2 ozs per gal
Citrus	nutritional defeciencies	Ch. Citrus Nutritional	2 TBS per gallon
	many diseases	Liquid Copper (new)	1 - 4 tsp per gal
	brown rot	Neutral Copper	2 1/2 tsp per gal
	scale, spider mite, white fly	Malathion-Oil	2.5 TBS per gal
	"worms", thrips, leafminers	Conserve-Naturalyte	2 ozs per gal
	scale, spider mite, white fly	Soluble Oil Spray	4 TBS per gal
	aid in control of rust mite	Sulfur	3 TBS per gal
	zinc defeciency dieback	Zinc Sulfate Granular	1/4 - 1 lb per tree
Grapes	many diseases	Captan Fungicide	1 - 2 TBS per gal
	many diseases	Liquid Copper (new)	1 tsp per gal
	Anthracnose, Black rot, Downy	Neutral Copper	2 1/2 tsp per gal
	Grape Leaf Folder	Dipel Dust	9 - 27.5 ozs per 1,500 sq ft
	many diseases	Dithane m-45	1.5 - 4 TBS per gal per 435 sq ft
	many labeled insect pests	Malathion 50% EC	1 tsp per gal
	many labeled insect pests	Sevin 50 W	7.5 TBS per 3 gal
	little leaf disorder	Zinc Sulfate Granular	1/2 lb per 1000 sq ft

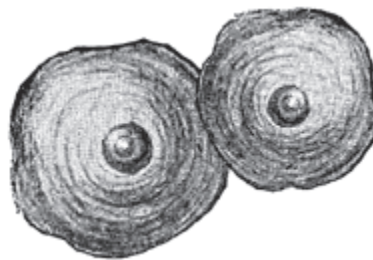
<u>CROP</u>	<u>CONTROLS</u>	<u>PRODUCT</u>	<u>RATE</u>
Kiwi	many diseases	Liquid Copper (new)	4 tsp per gal
Mango	Anthraxnose scale scale	Liquid Copper (new) Parafine Hort Oil Soluble Oil Spray	4 tsp per gal 3.5 TBS per gal 3.5 TBS per gal
Nectarines	many diseases many diseases many diseases	Captan Fungicide Liquid Copper (new) LOV Fungicide	2 - 4 TBS per gal 4 - 6 tsp per gal 2 TBS per gal
Papayas	Anthraxnose, fruit rot many diseases	Dithane M-45 LOV Fungicide	2 - 2.5 TBS per gal per 435 sq ft 3 - 4 TBS per gal
Peaches (may include nectarines)	many diseases many diseases many diseases many insects worms, leafminers, fruit flies many insect pests brown rot little leaf disorder	Captan Fungicide Liquid Copper (new) LOV Fungicide Malathion 50% EC Conserve-Naturalyte Permetrol Sulfur Zinc Sulfate Granular	2 - 4 TBS per gal 4 - 6 tsp per gal 2 TBS per gal 2 tsp per gal 2 ozs per gal 3 tsp per gal 3 TBS per gal 1/2 lb per 1000 sq ft
Pears (may include Quince)	Fire Blight, Blossom blast many insect pests many insect pests	Liquid Copper (new) Malathion 50% EC Permetrol	1/2 - 6 tsp per gal 2 tsp per gal 3 tsp per gal
Pecans	many diseases many insects empty nut caused by zinc def.	Liquid Copper (new) Malathion 50% EC Zinc Sulfate Granular	2 - 5 tsp per gal 2 tsp per gal 1.75- 3.5 lbs per inch across
Plums	many diseases many diseases worms, leafminers, fruit flies	Captan Fungicide LOV Fungicide Conserve-Naturalyte	2 - 3 TBS per gal 2 TBS per gal 2 ozs per gal
Strawberry	many disease leaf spots certain insect pests many insects certain insect pests many labeled insect pests	Captan Fungicide Liquid Copper (new) Cutworm & Cricket Bait Malathion 50% EC Mole Cricket Bait Sevin 50 W	1/2 - 3 TBS per gal 3 - 4 tsp per gal 0.9 lb per 1,000 sq ft 2 tsp per gal 0.9 lb per 1,000 sq ft 10 TBS per 3 gal



Japanese Beetle



Mealybug



San Jose Scale

# VEGETABLES

<u>CROP</u>	<u>CONTROLS</u>	<u>PRODUCT</u>	<u>RATE</u>
All Herbs	certain diseases/insects/mites	Triple Action Neem Oil	1 oz (2 TBS) per gal
All vegetables	certain diseases/insects/mites	Triple Action Neem Oil	1 oz (2 TBS) per gal
	Magnesium defeciency Snails and Slugs	Magnesium Sulfate Snail & Slug Bait	1/4 - 1 lb per 100 sq ft 1 lb per 4,400 sq ft
Asparagus	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.9 lb per 1,000 sq ft
	cutworms, asparagus beetles	Garden Insect Dust	uniform coverage
	cutworms, armyworms, crickets, sowbugs	Mole Cricket Bait	0.9 lb per 1,000 sq ft
	cutworms, asparagus beetle	Permetrol	1 tsp per gal
	Asparagus Beetle	Natural Pyrethrin Conc	1.2 - 3.6 ozs per 10 gals
Beans	beetles and worms	5% Carbaryl Dust	even coverage
	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.68 lb per 1,000 sq ft
	aphids, spider mites, beetles, leaf hoppers	Malathion 50% EC	2 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Mole Cricket Bait	0.68 lb per 1,000 sq ft
	worms, leafminers, thrips	Conserve-Naturalyte	2 ozs per gal
	aphids, leafhoppers, whitefly, beetles	Natural Pyrethrin Conc	1.2 - 3.6 ozs per 10 gals
	Mexican bean beetle	Sevin 50 W	5 TBS per gal
	Corn earworm, Japanese beetle	Sevin 50 W	7.5 TBS per gal
	worms	Thuricide HPC	2 - 4 tsp per gal
	bacterial blight	Liquid Copper (new)	2 - 6 tsp
	leaf spot, downy mildew, bacterial blight	Neutral Copper	4 tsp per gal
	rust, botrytis	LOV Fungicide	2 - 4 TBS per gal
	aid in rust control	Sulfur	spray at 1/2 cup per gal
root and stem rots	Terrachlor 75%	1.4 - 2.2 ozs per 1,000 of row	
Beets	Cercospora	Liquid Copper (new)	3 - 6 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.9 lb per 1,000 sq ft
	cutworms, armyworms, crickets, sowbugs	Mole Cricket Bait	0.9 lb per 1,000 sq ft
	many worms	Thuricide HPC	2 - 4 tsp per gal
Broccoli	cabbage loopers	5% Carbaryl Dust	even coverage
	downy mildew	Neutral Copper	4 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.9 lb per 1,000 sq ft
	Cabbage looper, Cabbageworm	Dipel Dust	9 - 33 ozs per 1,500 sq ft
	aphids & worms	Garden Insect Dust	uniform coverage
	Alternaria, Downy Mildew	LOV Fungicide	2.5 TBS per gal
	aphids, worms, leafhoppers	Malathion 50% EC	2 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Mole Cricket Bait	0.9 lb per 1,000 sq ft
	worms, leafminers	Conserve-Naturalyte	2 ozs per gal
	aphids & worms	Permetrol	1 tsp per gal
	aphids, worms, flea beetle, stink bug	Natural Pyrethrin Conc	1.2 - 3.6 ozs per 10 gals
	worms	Thuricide HPC	2 - 4 tsp per gal
Clubroot	Terrachlor 75% WP	1 oz per 3 gal	
Brussel Spouts	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.9 lb per 1,000 sq ft
	aphids & worms	Garden Insect Dust	uniform coverage
	Alternaria, Downy Mildew	LOV Fungicide	2.5 TBS per gal
	cutworms, armyworms, crickets, sowbugs	Mole Cricket Bait	0.9 lb per 1,000 sq ft
	worms, leafminers	Conserve-Naturalyte	2 ozs per gal
	aphids & worms	Permetrol	1 tsp per gal
	aphids, worms, flea beetle, stink bug	Natural Pyrethrin Conc	1.2 - 3.6 ozs per 10 gal
	Clubroot	Terrachlor 75% WP	1 oz per 3 gal
	worms	Thuricide HPC	2 - 4 tsp per gal

<u>CROP</u>	<u>CONTROLS</u>	<u>PRODUCT</u>	<u>RATE</u>
Cabbage	cabbage loopers	5% Carbaryl Dust	even coverage
	downy mildew	Neutral Copper	4 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.9 lb per 1,000 sq ft
	Cabbage looper, Cabbageworm	Dipel Dust	9 - 33 ozs per 1,500 sq ft
	aphids, worms	Garden Insect Dust	uniform coverage
	Alternaria, late blight	LOV Fungicide	2.5 TBS per gal
	aphids, worms	Malathion 50% EC	2 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Mole Cricket Bait	0.9 lb per 1,000 sq ft
	worms, leafminers	Conserve-Naturalyte	2 ozs per gal
	aphids, worms	Permetrol	1 tsp per gal
	aphids, worms, flea beetle, stink bug	Natural Pyrethrin Conc	1.2 - 3.6 ozs per 10 gal
	worms	Thuricide HPC	2 - 4 tsp per gal
	Clubroot	Terrachlor 75% WP	1 oz per 3 gal
Carrots	early and late blight	Liquid Copper (new)	4 - 6 tsp per gal
	downy mildew, cercospora, leaf blight	Neutral Copper	4 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.9 lb per 1,000 sq ft
	Alternaria, Downy Mildew	LOV Fungicide	2.5 TBS per gal
	cutworms, armyworms, crickets, sowbugs	Mole Cricket Bait	0.9 lb per 1,000 sq ft
	worms	Thuricide HPC	2 - 4 tsp per gal
Cauliflower	cabbage loopers	5% Carbaryl Dust	even coverage
	downy mildew	Neutral Copper	4 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.9 lb per 1,000 sq ft
	Cabbage looper, Cabbageworm	Dipel Dust	9 - 33 ozs per 1,500 sq ft
	many foliar insect pests	Garden Insect Dust	uniform coverage
	Alternaria, Downy Mildew	LOV Fungicide	2.5 TBS per gal
	cutworms, armyworms, crickets, sowbugs	Mole Cricket Bait	0.9 lb per 1,000 sq ft
	worms, leafminers	Conserve-Naturalyte	2 ozs per gal
	aphids & worms	Permetrol	1 tsp per gal
	aphids, worms, flea beetle, stink bug	Natural Pyrethrin Conc	1.2 - 3.6 ozs per 10 gals
	worms	Thuricide HPC	2 - 4 tsp per gal
Celery	Cabbage Looper	Dipel Dust	11 - 33 ozs per 1,500 sq ft
	early/ late blight	LOV Fungicide	3 - 4 TBS per gal
	aphids, spider mites	Malathion 50% EC	2 tsp per gal
	worms, leafminers	Conserve-Naturalyte	2 ozs per gal
	leaf miner, loopers, cutworm, armyworm	Permetrol	2 tsp per gal
	aphids, loopers	Natural Pyrethrin Conc	1.2 - 3.6 ozs per 10 gals
	worms	Thuricide HPC	2 - 4 tsp per gal
Collards	Cabbage Looper, Cabbageworm	Dipel Dust	9 - 33 ozs per 1,500 sq ft
	worms, leafminers	Conserve-Naturalyte	2 ozs per gal
	aphids, worms	Natural Pyrethrin Conc	1.2 - 3.6 ozs per 10 gal
	worms	Thuricide HPC	2 - 4 tsp per gal
	Wirestem or Black Root	Terrachlor 75% WP	12.2 - 18.4 oz per 1000 feet row
Corn	weed control	2,4 D Amine	2-4 pints per acre
	worms, beetles	5% Carbaryl Dust	even coverage
	armyworm, earworm	10% Carbaryl Dust	even coverage
	many diseases	Liquid Copper (new)	4 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.9 lb per 1,000 sq ft
	rust, leaf blight	Dithane M-45	1.5 TBS per gal per 435 sq ft
	Helminthosporium, rust	LOV Fungicide	2.5 TBS per gal
	cutworms, armyworms, crickets, sowbugs	Mole Cricket Bait	0.9 lb per 1,000 sq ft
	worms, corn borer	Conserve-Naturalyte	2 ozs per gal
	worms	Permetrol	2 tsp per gal
	worms	Sevin 50 W	5 TBS per 3 gal per 800 row feet
white bud disorder	Zinc Sulfate Granular	1/2 lb per 1000 sq ft	

<u>CROP</u>	<u>CONTROLS</u>	<u>PRODUCT</u>	<u>RATE</u>
Cucumber	many diseases	Liquid Copper (new)	3 - 4 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.45 lb per 1,000 sq ft
	Cabbage Looper	Dipel Dust	9 - 27.5 ozs per 1,500 sq ft
	many diseases	Dithane m-45	2 - 3 TBS per gal per 435 sq ft
	aphids, beetles, plant bugs, worms	Garden Insect Dust	uniform coverage
	many diseases	LOV Fungicide	2 - 4 TBS per gal
	aphids, beetles, leaf Hoppers, spider mites	Malathion 50% EC	2 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Mole Cricket Bait	0.45 lb per 1,000 sq ft
	worms, thrips, leafminers	Conserve-Naturalyte	2 ozs per gal
	worms	Thuricide HPC	2 - 4 tsp per gal
downy mildew	Tomato Dust (copper)	5.5 - 15 ozs per 1,000 sq ft	
Eggplant	many diseases	Liquid Copper (new)	4 tsp per gal
	many diseases	Neutral Copper	4 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.9 lb per 1,000 sq ft
	C.P. Beetle, leaf miner	Garden Insect Dust	uniform coverage
	aphids & spider mites	Malathion 50% EC	2 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Mole Cricket Bait	0.9 lb per 1,000 sq ft
	worms, thrips, C. P. beetle	Conserve-Naturalyte	2 ozs per gal
	C.P. Beetle, leafminer	Permetrol	2 tsp per gal
	many insect pest	Natural Pyrethrin Conc	1.2 - 3.6 ozs per 10 gals
	worms, stink bug, C.P. beetle	Sevin 50 W	7.5 TBS per 3 gal
worms	Thuricide HPC	1 - 4 tsp per gal	
Greens- see Mustard or Turnip			
Lettuce	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.9 lb per 1,000 sq ft
	Cabbage Loopers	Dipel Dust	11 - 33 ozs per 1,500 sq ft
	many foliar insect pests	Garden Insect Dust	uniform coverage
	many insects & spider mites	Malathion 50% EC	2 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Mole Cricket Bait	0.9 lb per 1,000 sq ft
	worms, leafminers	Conserve-Naturalyte	2 ozs per gal
	many insect pests	Permetrol	2 tsp per gal (head only)
	many insect pests	Natural Pyrethrin Conc	1.2 - 3.6 ozs per 10 gals
	worms	Thuricide HPC	2 - 4 tsp per gal
Melons	many diseases	Liquid Copper (new)	3 - 4 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.45 lb per 1,000 sq ft
	Cabbage Loopers	Dipel Dust	9 - 27.5 ozs per 1,500 sq ft
	many diseases	Dithane m-45	2 - 3 TBS per gal per 435 sq ft
	many foliar insect pests	Garden Insect Dust	uniform coverage
	many diseases	LOV Fungicide	2 - 4 TBS per gal
	many insects & spider mites	Malathion 50% EC	2 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Mole Cricket Bait	0.45 lb per 1,000 sq ft
	worms, thrips, leafminers	Conserve-Naturalyte	2 ozs per gal
	worms	Thuricide HPC	2 - 4 tsp per gal
downy mildew	Tomato Dust (copper)	5.5 - 15 ozs per 1,000 sq ft	
Mustards	Cabbage Looper	Dipel Dust	11 - 33 ozs per 1,500 sq ft
	many insects	Malathion 50% EC	2 tsp per gal
	worms, leafminers	Conserve-Naturalyte	2 ozs per gal
	many insect pests	Natural Pyrethrin Conc	1.2 - 3.6 ozs per 10 gal
	Wirestem or Black Root	Terrachlor 75% WP	12.2 - 18.4 oz per 1000 feet row
	worms	Thuricide HPC	2 - 4 tsp per gal
Okra	“worms”, beetles	5% Carbaryl Dust	even coverage
	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.9 lb per 1,000 sq ft
	cutworms, armyworms, crickets, sowbugs	Mole Cricket Bait	0.9 lb per 1,000 sq ft
	worms, stink bug, C.P. beetle	Sevin 50 W	7.5 TBS per 3 gal

<u>CROP</u>	<u>CONTROLS</u>	<u>PRODUCT</u>	<u>RATE</u>
Onions	Downy Mildew, Purple Blotch many diseases thrips worms	Liquid Copper (new) LOV Fungicide Malathion 50% EC Thuricide HPC	4 tsp per gal 1.5 - 2.5 TBS per gal 2 tsp per gal 2 - 4 tsp per gal
Peas (may include cowpeas)	bacterial blight cutworms, armyworms, crickets, sowbugs cutworms, armyworms, crickets, sowbugs worms, leafminers, thrips	Liquid Copper (new) Cutworm & Cricket Bait Mole Cricket Bait Conserve-Naturalyte	2 - 6 tsp per gal 0.68 lb per 1,000 sq ft 0.68 lb per 1,000 sq ft 2 ozs per gal
Peanuts	many diseases	LOV Fungicide	2 TBS per gal
Peppers	bacterial spot, Cercospora many diseases cutworms, armyworms, crickets, sowbugs many foliar insect pests aphids cutworms, armyworms, crickets, sowbugs worms, thrips, C.P. beetle many insect pests aphids worms, stink bug, C.P. beetle Southern Blight worms aid in control- bacteria spot	Liquid Copper (new) Neutral Copper Cutworm & Cricket Bait Garden Insect Dust Malathion 50% EC Mole Cricket Bait Conserve-Naturalyte Permetrol Natural Pyrethrin Conc Sevin 50 W Terrachlor 75% WP Thuricide HPC Tomato Dust (copper)	3 - 6 tsp per gal 4 tsp per gal 0.9 lb per 1,000 sq ft uniform coverage 2 tsp per gal 0.9 lb per 1,000 sq ft 2 ozs per gal 2 tsp per gal 1.2 - 3.6 ozs per 10 gals 7. 5 TBS per 3 gal 1 oz per 3 gal 1 - 4 tsp per gal 7 13 - 16 1/2 ozs per 1000 sq ft
Potatos	early and late blight cutworms, armyworms, crickets, sowbugs Cabbage Loopers early, late blights many foliar insect pests many diseases aphids, leaf hoppers, mealybugs cutworms, armyworms, crickets, sowbugs worms, C.P. Beetle, thrips many insect pests many insect pests worms, stink bug, C.P. beetle worms early & late blight	Liquid Copper (new) Cutworm & Cricket Bait Dipel Dust Dithane m-45 Garden Insect Dust LOV Fungicide Malathion 50% EC Mole Cricket Bait Conserve-Naturalyte Permetrol Natural Pyrethrin Conc Sevin 50 W Thuricide HPC Tomato Dust (copper)	3 - 6 tsp per gal 0.9 lb per 1,000 sq ft 11 - 33 ozs per 1,500 sq ft 1 - 2 TBS per gal per 435 sq ft uniform coverage 2 TBS per gal 2 tsp per gal 0.9 lb per 1,000 sq ft 2 ozs per gal 2 tsp per gal 1.2 - 3.6 ozs per 10 gals 7. 5 TBS per 3 gal 2 - 4 tsp per gal 11 - 22 ozs per 1,000 sq ft
Radishes	aphids aphids, flea beetle worms	Malathion 50% EC Natural Pyrethrin Conc Thuricide HPC	2 tsp per gal 1.2 - 3.6 ozs per 10 gals 2 - 4 tsp per g
Spinach	many diseases cutworms, armyworms, crickets, sowbugs many foliar insect pests cutworms, armyworms, crickets, sowbugs worms, leafminers many insect pests aphids, loopers, webworm worms	Neutral Copper Cutworm & Cricket Bait Garden Insect Dust Mole Cricket Bait Conserve-Naturalyte Permetrol Natural Pyrethrin Conc Thuricide HPC	4 tsp per gal 0.9 lb per 1,000 sq ft uniform coverage 0.9 lb per 1,000 sq ft 2 ozs per gal 1 tsp per gal 1.2 - 3.6 ozs per 10 gals 2 - 4 tsp per gal



Aphid

<u>CROP</u>	<u>CONTROLS</u>	<u>PRODUCT</u>	<u>RATE</u>
Squash (may include pumpkins)	many diseases	Liquid Copper (new)	3 - 4 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.45 lb per 1,000 sq
	many diseases	Dithane m-45	2 - 3 TBS per gal per 435 sq ft
	many foliar insect pests	Garden Insect Dust	uniform coverage
	many diseases	LOV Fungicide	2 - 4 TBS per gal
	many insects & spider mites	Malathion 50% EC	2 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Mole Cricket Bait	0.45 lb per 1,000 sq
	worms, thrips, leafminers	Conserve-Naturalyte	2 ozs per gal
	worms	Thuricide HPC	2 - 4 tsp per gal
	downy mildew	Tomato Dust (copper)	5.5 - 15 ozs per 1,000 sq ft
Strawberry	many disease	Captan Fungicide	1 1/2 - 3 TBS per gal
	leaf spots	Liquid Copper (new)	3 - 4 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.9 lb per 1,000 sq ft
	many insects	Malathion 50% EC	2 tsp per gal
	cutworms, armyworms, crickets, sowbugs	Mole Cricket Bait	0.9 lb per 1,000 sq ft
Sweet Potato	worms, C.P. Beetle, thrips	Sevin 50 W	10 TBS per 3 gal
		Conserve-Naturalyte	2 ozs per gal
Tomatoes	blossom end rot	Stop Blossom End Rot	1 oz. per gal
	bacteria spot/ speck	Liquid Copper (new)	3 - 6 tsp per gal
	many diseases	Neutral Copper	4 tsp per gal
	Cabbage loopers, hornworms	Dipel Dust	9 - 33 ozs per 1,500 sq ft
	many diseases	Dithane m-45	1.5 - 2 TBS per gallon per 435 sq ft
	many foliar insect pests	Garden Insect Dust	uniform coverage
	many diseases	LOV Fungicide	3 - 4 TBS per gal
	aphids, spider mites	Malathion 50% EC	2 tsp per gal
	worms, thrips, C.P. beetle	Conserve-Naturalyte	2 ozs per gal
	many insect pests	Permetrol	2 tsp per gal
	many insect pests	Natural Pyrethrin Conc	1.2 - 3.6 ozs per 10 gals
	worms, stink bug, C.P. beetle	Sevin 50 W	7.5 TBS per 3 gal
	Southern Blight	Terrachlor 75% WP	1 oz per 3 gal
	worms	Thuricide HPC	1 - 4 tsp per gal
	early & late blight	Tomato Dust (copper)	11 - 22 ozs per 1,000 sq ft
Turnips Greens	cutworms, armyworms, crickets, sowbugs	Cutworm & Cricket Bait	0.9 lb per 1,000 sq ft
	Cabbage Loopers, Cabbageworms	Dipel Dust	9 - 99 ozs per 1,500 sq ft
	many insects	Malathion 50% EC	2 tsp per gal
	certain insect pests	Mole Cricket Bait	0.9 lb per 1,000 sq ft
	many insect pests	Natural Pyrethrin Conc	1.2 - 3.6 ozs per 10 gals
worms	Thuricide HPC	2 - 4 tsp per gal	

Watermelon- see melons



Colorado Potato Beetle



Cabbageworm

# ORNAMENTAL INSECT CONTROL

READ PRODUCT LABEL FOR SPECIFIC LABELED PLANTS AND PESTS

<u>PRODUCT</u>	<u>RATE</u>
Carbaryl 5% Dust	Ready to Use
Carbaryl 10% Dust (for Woody Ornamentals)	Ready to Use
Cutworm & Cricket Bait	0.9 lbs per 1000 sq ft
Garden Insect Dust	Ready to Use
Home Pest Control	Ready to Use
Malathion 5% Dust	Ready to Use
Malathion 50% EC	1 - 2 tsp per gallon
Malathion-Oil Citrus & Ornamental Spray	2 TBS per gal
Mole Cricket Bait	0.9 lbs per 1000 sq ft
Mole Cricket & Chinch Bug Lawn Insect Control	2 - 3 lbs per 1000 sq ft
Conserve- Naturalyte Insect Control	2 oz per gal
Triple Action Neem Oil	1 oz per gallon
Payback Fire Ant Bait	12 oz per 5,000 sq ft or 10 mounds
Permetrol (liquid)	1 1/3 tsp per gal or 2.5 oz per gal for tent caterpillars
Pet & Livestock Pest Control Spray	Ready to Use
Natural Pyrethrin Concentrate	1.2 to 3.6 oz in 10 gal
Parafine Horticultural Oil	Non Dormant: 1 - 4 TBS per gal Dormant: 4 - 8 TBS per gal
Sevin 50 W	5 TBS per 3 gal
Snail & Slug Bait	0.9 lbs per 1000 sq ft
Soluble Oil Spray	Non Dormant: 1 - 4 TBS per gal Dormant: 4 - 8 TBS per gal
Thuricide HPC	4 tsp per gal

# ORNAMENTAL DISEASE CONTROL

Please read full product label for labeled plants and diseases.

<u>PRODUCT</u>	<u>RATE</u>
Systemic Fungicide (Bayleton)	1 - 2 TBS per gal (most uses)
Captan Fungicide	1 - 2 TBS per gal
Liquid Copper Fungicide	2 tsp per gal
Dithane M-45	1.5 TBS per gal
Liquid Ornamental Vegetable Fungicide	2 - 2.5 TBS per gal per 350 sq ft
Triple Action Neem Oil	1 oz (2 TBS) per gal
RD 20 Disinfectant	1 - 3 tsp per gal
Wettable or Dusting Sulfur	dust or spray at 2 TBS per gal
Terrachlor 75% WP	Spray: 1 lb per 150 sq ft Dip: 2 - 6 lbs per 100 gal
Thiomyl	Spray or Drench: 1 2/3 tsp - 3 tsp per gal

# TURFGRASS WEED CONTROL

<u>SITE</u>	<u>CONTROLS</u>	<u>PRODUCT</u>	<u>RATE</u>
All Lawn Renovation	all weeds & grasses	Weed Pro	1/5 - 2.5 ozs per 300 sq ft
All turfgrass	certain weeds weed prevention	Sedge Control- Basagran Surflan Team 2G	0.75 oz per 1000 sq ft in 1-2 gal 1 - 1.5 oz per 1000 sq ft 1.75 - 3.5 lbs per 1000 sq ft
Bluegrass	broadleaf weeds certain weeds broadleaf weeds broadleaf weeds	2,4-D Amine Weed* Sedge Control- Basagran Lawn Weed Killer-Trimec Lawn Spot Weeder	2 - 4 pints per acre 0.75 oz per 1000 sq ft in 1-2 gal 4 ozs in 8 gal per 1000 sq ft ready to use
Bahia	broadleaf weeds certain weeds broadleaf weeds broadleaf weeds	2,4-D Amine Weed* Sedge Control- Basagran Lawn Spot Weeder Lawn Weed Killer-Triemc	1 - 1.5 ozs per 1000 sq ft 0.75 oz per 1000 sq ft in 1-2 gal ready to use 4 ozs in 8 gal per 1000 sq ft
Bentgrass	certain weeds broadleaf weeds broadleaf weeds	Sedge Control- Basagran Lawn Spot Weeder Lawn Weed Killer-Trimec	0.75 oz per 1000 sq ft in 1-2 gal ready to use 2.5 ozs in 5 gal per 1000 sq ft
Bermuda	broadleaf weeds certain weeds broadleaf weeds broadleaf weeds	2,4-D Amine Weed * Sedge Control- Basagran Lawn Spot Weeder Lawn Weed Killer-Trimec	2 - 4 pints per acre 0.75 oz per 1000 sq ft in 1-2 gal ready to use 4 ozs in 8 gal per 1000 sq ft
Buffalo	certain weeds broadleaf weeds	Sedge Control- Basagran Lawn Weed Killer-Triemc	0.75 oz per 1000 sq ft in 1-2 gal 2.5 ozs in 5 gal per 1000 sq ft
Centpede	broadleaf weeds certain weeds broadleaf weeds	Atrazine (new 4%) Sedge Control- Basagran Lawn Weed Killer-Trimec	4 1/3 oz per 500 sq ft in 1 gal 0.75 oz per 1000 sq ft in 1-2 gal 4 ozs in 8 gal per 1000 sq ft
Fescues	broadleaf weeds certain weeds broadleaf weeds broadleaf weeds	2,4-D Amine Weed* Sedge Control- Basagran Lawn Spot Weeder Lawn Weed Killer-Trimec	2 - 4 pints per acre 0.75 oz per 1000 sq ft in 1-2 gal ready to use 4 ozs in 8 gal per 1000 sq ft
Ryegrass	broadleaf weeds certain weeds broadleaf weeds broadleaf weeds	2,4-D Amine Weed* Sedge Control- Basagran Lawn Spot Weeder Lawn Weed Killer-Trimec	2 - 4 pints per acre 0.75 oz per 1000 sq ft in 1-2 gal ready to use 4 ozs in 8 gal per 1000 sq ft
Pasture & Rangeland	broadleaf weeds	2,4-D Amine Weed*	2 - 4 pints per acre
St. Augustine	broadleaf weeds certain weeds broadleaf weeds (not Floratam or other improved varieties)	Atrazine (new 4%) Sedge Control- Basagran Lawn Weed Killer-Trimec	4 1/3 oz per 500 sq ft in 1 gal 0.75 oz per 1000 sq ft in 1-2 gal 2.5 ozs in 5 gal per 1000 sq ft
Zoysia	broadleaf weeds certain weeds	2,4-D Amine Weed* Sedge Control- Basagran	2 - 4 pints per acre 0.75 oz per 1000 sq ft

\* do not use on alfalfa, bent, clover, Carpet, Centipede, Dichondra or St. Augustine



# TURFGRASS DISEASE CONTROL

<u>CONTROLS</u>	<u>PRODUCT</u>	<u>RATE</u>
Algae	Liquid Copper Fungicide (new) RD 20 Disinfectant	1 pint per 1000 sq ft 1.6 ozs per 1000 sq ft
Anthracnose	Turf Fungicide Granular - Bayleton Systemic Fungicide - Bayleton Thiomyl Systemic Fungicide	3 - 6 lbs per 1000 sq ft 5.6 ozs per 100 sq ft 2 ozs per 1000 sq ft
Brown Patch	Turf Fungicide Granular - Bayleton Systemic Fungicide - Bayleton RD 20 Disinfectant Terrachlor 75% WP Thiomyl Systemic Fungicide	3 - 6 lbs per 1000 sq ft 2.8 - 5.6 ozs per 100 sq ft 1.6 ozs per 1000 sq ft 3 - 16 ozs per 1000 sq ft 2 ozs per 1000 sq ft
Dollar Spot	Turf Fungicide Granular - Bayleton Systemic Fungicide - Bayleton RD 20 Disinfectant Terrachlor 75% WP Thiomyl Systemic Fungicide	1.5 - 6 lbs per 1000 sq ft 2.8 - 5.6 ozs per 100 sq ft 1.6 ozs per 1000 sq ft 7 - 10 ozs per 1000 sq ft 2 ozs per 1000 sq ft
Fairy rings	RD 20 Disinfectant	1.6 ozs per 1000 sq ft
Fusarium Blight	Turf Fungicide Granular - Bayleton Systemic Fungicide - Bayleton RD 20 Disinfectant	6 lbs per 1000 sq ft 5.6 ozs per 100 sq ft 1.6 ozs per 1000 sq ft
Fusarium Patch	Turf Fungicide Granular - Bayleton Systemic Fungicide - Bayleton	6 - 12 lbs per 1000 sq ft 5.6 - 11.2 ozs per 100 sq ft
Gray Snow Mold	Turf Fungicide Granular - Bayleton Terrachlor 75% WP	12 lbs per 1000 sq ft 8 ozs per 1000 sq ft
Leaf Spot	RD 20 Disinfectant Terrachlor 75% WP	1.6 ozs per 1000 sq ft 7 - 10 ozs per 1000 sq ft
Pink Snow Mold	Turf Fungicide Granular - Bayleton Systemic Fungicide - Bayleton Terrachlor 75% WP Thiomyl Systemic Fungicide	6 - 12 lbs per 1000 sq ft 5.6 - 11.2 ozs per 100 sq ft 8 ozs per 1000 sq ft 2 ozs per 1000 sq ft
Powdery Mildew	Turf Fungicide Granular - Bayleton Systemic Fungicide - Bayleton	3 - 6 lbs per 1000 sq ft 2.8 - 5.6 ozs per 100 sq ft
Pythium Blight	RD 20 Disinfectant	1.6 ozs per 1000 sq ft
Red Thread	Turf Fungicide Granular - Bayleton Systemic Fungicide - Bayleton Thiomyl Systemic Fungicide	3 - 6 lbs per 1000 sq ft 2.8 - 5.6 ozs per 100 sq ft 2 ozs per 1000 sq ft
Rust	Turf Fungicide Granular - Bayleton Systemic Fungicide - Bayleton RD 20 Disinfectant	3 - 6 lbs per 1000 sq ft 2.8 - 5.6 ozs per 100 sq ft 1.6 ozs per 1000 sq ft
Summer Patch	Turf Fungicide Granular - Bayleton Systemic Fungicide - Bayleton	6 lbs per 1000 sq ft 5.6 - 11.2 ozs per 100 sq ft
Toad Stools	RD 20 Disinfectant	1.6 ozs per 1000 sq ft

# TURFGRASS INSECT CONTROL

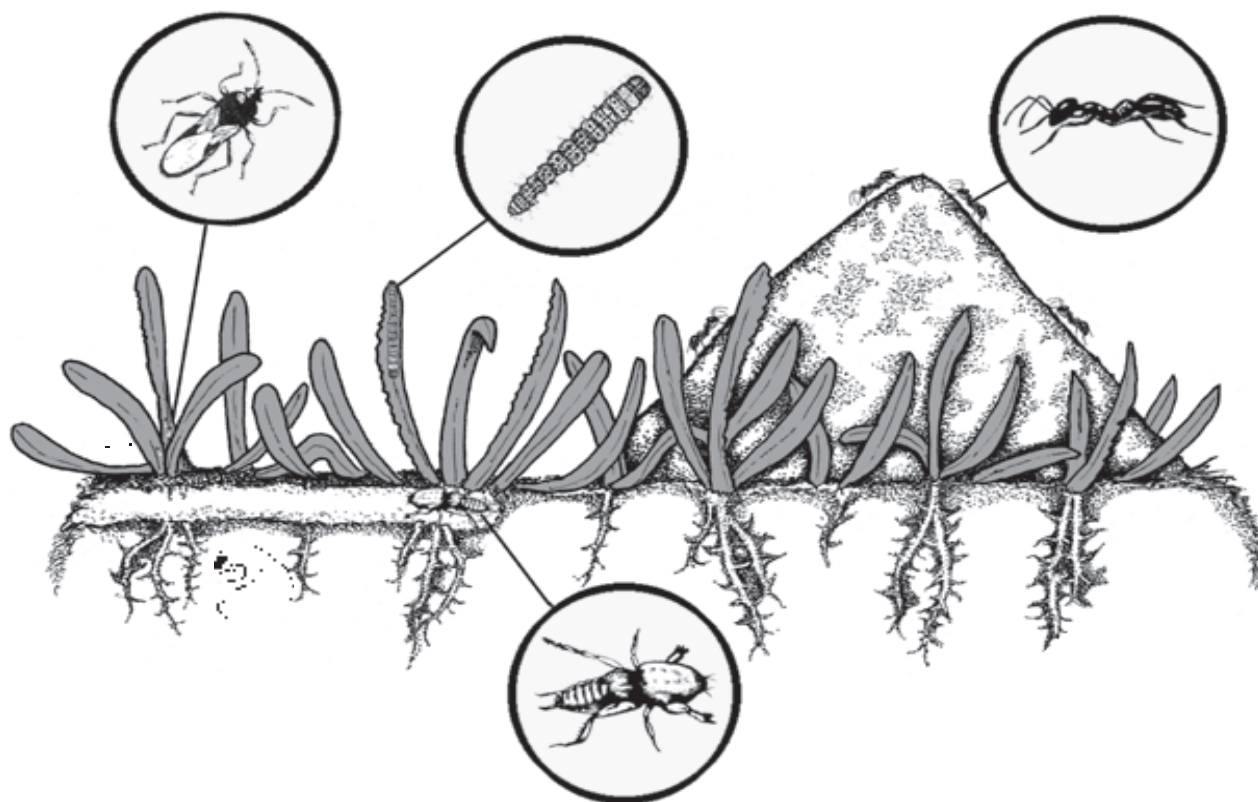
**Bifenthrin granular will be available later in 2007**

<u>CONTROLS</u>	<u>PRODUCTS</u>	<u>RATE</u>
Ants(not imported fire)	Cutworm & Cricket Bait	0.75 - 0.9 lbs per 1000 sq ft
	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Mole Cricket Bait	0.75 - 0.9 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2- 3 lbs per 1000 sq ft
	Permetrol (liquid)	3 tsp per 3 gal per 1000 sq ft
Armyworms	Carbaryl 10% Cust	2 lbs per 1000 sq ft
	Cutworm & Cricket Bait	0.75 - 0.9 lbs per 1000 sq ft
	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Mach 2 Grub Control Granules	1.55 lbs per 1000 sq ft
	Mole Cricket Bait	0.75 - 0.9 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Conserve Naturalyte Insect Control	6 oz per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
	Permetrol (liquid)	7 tsp per 10 gal per 1000 sq ft
	Sevin 50 W	1.5 lbs per 1250 sq ft
Billbugs	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
Boxelder bugs	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
Centipedes, Millipedes	Carbaryl 10% Dust	2 lbs per 1000 sq ft
	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
	Sevin 50 W	1.5 lbs per 1250 sq ft
Chiggers	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
Chinch bugs	Fire Ant Control Granules	2 - 3 lbs per 1000 sq st
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
	Permetrol (liquid)	7 tsp per 10 gal per 1000 sq ft
Cockroaches	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
Crickets	Cutworm & Cricket Bait	0.75 - 0.9 lbs per 1000 sq ft
	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Mole Cricket Bait	0.75 - 0.9 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
	Permetrol (liquid)	3 tsp per 3 gal per 1000 sq ft
Cutworms	Cutworm & Cricket Bait	0.75 - 0.9 lbs per 1000 sq ft
	Mach 2 Grub Control Granules	1.55 lbs per 1000 sq ft
	Mole Cricket Bait	0.75 - 0.9 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
	Permetrol (liquid)	7 tsp per 10 gal per 1000 sq ft
Darking Beetles	Cutworm & Cricket Bait	0.75 - 0.9 lbs per 1000 sq ft
	Mole Cricket Bait	0.75 - 0.9 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft

Fleas	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
	Permetrol (liquid)	6.5 oz per gal spot treatment
Grasshoppers	Cutworm & Cricket Bait	0.75 - 0.9 lbs per 1000 sq ft
	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Mole Cricket Bait	0.75 - 0.9 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
Permetrol (liquid)	3 tsp per 3 gal per 1000 sq ft	
Houseflies	Conserve Fly Bait	1 ounce per 125 sq ft
Imported Fire Ants	Carbaryl 5% Dust	2 - 4 ozs per mound
	Carbaryl 10% Dust	1 - 2 ozs per mound
	Fire Ant Control Granules	2 - 3 lbs per 1000
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Conserve Naturalyte Insect Control	2 - 4 oz per mound in 1 - 2 gal
Payback Fire Ant Bait	12 oz per 5,000 sq ft or 10 moundsb	
Japanese Beetle (adult)	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft (adult)
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft (adult)
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft (adult)
	Permetrol (liquid)	7 tsp per 10 gal per 1000 sq ft (grubs)
Lawn Moths	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
Mole Crickets	Cutworm & Cricket Bait	0.75 - 0.9 lbs per 1000 sq ft
	Mole Cricket Bait	0.75 - 0.9 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol (liquid)	7 tsp per 10 gal per 1000 sq ft
Mosquitoes	Malathion 50% EC	mist or fog at 4.5 oz per gal
Scorpions	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
Silverfish	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
Sod webworms	Carbaryl 10% Dust	2 lbs per 1000 sq ft
	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Mach 2 Grub Control Granules	1.55 lbs per 1000 sq ft
	Conserve Naturalyte Insect Control	6 oz per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
	Permetrol (liquid)	7 tsp per 10 gal per 1000 sq ft
Sevin 50 W	1.5 lbs per 1250 sq ft	
Sowbugs	Cutworm & Cricket Bait	0.75 - 0.9 lbs per 1000 sq ft
	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Mole Cricket Bait	0.75 - 0.9 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
Spiders	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
Spittle bugs	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
Ticks	Fire Ant Control Granules	2 - 3 lbs per 1000 sq ft
	Lawn Insect Control (Deltamethrin)	2 - 3 lbs per 1000 sq ft
	Permetrol Lawn Insecticide Granules	2 - 3 lbs per 1000 sq ft
	Permetrol (liquid)	6.5 oz per gal spot treatment

White Grub larve                      Permetrol liquid  
 \* Product containing Merit or Mach 2 are labeled to control White Grubs.

7 tsp per 10 gal per 1000 sq ft (Japanese Beetle Grub)



## Indoor Labeled Products

<u>PRODUCT</u>	<u>CONTROLS</u>	<u>RATE</u>
Boric Acid Roach Powder	crochroaches, Ants, silverfish	dust or 1 cup per gal
Home Pest Control Spray	many insects	ready to use

## Pets & Livestock Labeled Products

<u>PRODUCT</u>	<u>LABELED ANIMALS</u>	<u>RATE</u>
Livestock Dust	Poultry, Beef Cattle, Dairy Cattle, Swine	ready to use
Permetrol (liquid)	Dogs, Cattle, Sheep, Goats, Swine, Horses, Poultry	1.3 - 6.5 oz per gal
Pet & Livestock Pest Control Spray	Dogs, cattle, goats, sheep, hogs, horses	ready to use
Natural Pyrethrin Concentrate	pets and livestock	1:9 - 1:100 see label

## Lake & Pond Management Labeled Products

<u>Controls</u>	<u>Product</u>	<u>Rate</u>
Algae	Copper Sulfate Granular Crystals	0.8 - 2.3 lbs per acre foot
Water Hyacinth	2,4-D Amine Weed Killer	2 - 4 quarts per acre
Water Milfoil	2,4-D Amine Weed Killer	2.5 - 10 gal per acre

# TABLE OF WEIGHTS & MEASURES

## WEIGHTS

28.35 Grams = 1 Ounce  
 16 Ounces = 1 Pound = 453.6 Grams  
 1 Kilogram = 1000 Gram = 2.205 Pounds  
 1 Gallon water = 8.34 Pounds = 3.8 Kilogram  
 1 Cu. Ft. water = 62.4 Pounds = 28.3 Kilogram  
 1 Ton = 2,000 Pounds = 907 Kilograms

## USEFUL FORMULAS

Area of a Rect. or Square      A= length x width  
 Area of a Circle                A= 3.14 x Radius squared  
 Circumference of a Circle    C= Diameter x 3.14  
 Diameter of a Circle            D= Distance from side to side  
 Radius of a Circle R= 1/2 of Diameter

## VOLUME AND LIQUID MEASURE

3 Teaspoons = 1 Tbs. (Tablespoons) = 14.8 ml (Millilitres)  
 2 Tablespoons = 1 Fl. oz. (Fluid ounces) = 29.6 ml  
 8 Fluid ounces = 16 Tablespoons = 1 Cup = 236.6 ml  
 2 Cups = 32 Tbs. = 16 Fl. oz. = 1 Pint = 473.1 ml  
 2 Pints = 64 Tbs. = 32 Fl. oz. = 1 Quart = 946.2 ml  
 1 Litre = 1000 ml = 0.2642 Gallons = 33.81 Ounces  
 1 Gallon = 4 Quarts = 128 Fl. oz. = 256 Tbs. = 3785 ml

## LENGTH AND LAND MEASURE

1 inch = 2.54 cm (centimeters)  
 100 cm = 1 Meter = 3.281 Feet  
 1 mile = 5,280 Feet = 1,609 Kilometers  
 43,560 square feet = 1 Acre  
 1 Acre = 0.4047 Hectare

### EQUIVALENT QUANTITIES OF DRY MATERIALS (WETTABLE POWDERS) FOR VARIOUS QUANTITIES OF WATER:

WATER	QUANTITY OF MATERIAL					
100 GAL.	1 LB.	2 LB.	3 LB.	4 LB.	5 LB.	6 LB.
5 GAL.	3 TBS.	1.5 OZ.	2.50 OZ.	3.25 OZ.	4 OZ.	5 OZ.
1 GAL.	2 TSP.	1 TBS.	1.5 TBS.	2 TBS.	2.5 TBS.	3 TBS.

**NOTE:** Wettable pesticide materials vary considerably in density. Therefore the teaspoonful (TSP.) and tablespoonful (TBS.) measurements in this table are not exact dosage by weight but are within the bounds of safety and efficiency for mixing small amount of spray.

### EQUIVALENT QUANTITIES OF LIQUID MATERIALS (EMULSION, CONCENTRATES, ETC.) FOR VARIOUS QUANTITIES OF WATER:

WATER	QUANTITY OF MATERIAL					
100 GL.	1/2 PT.	1 PT.	2 PT.	3PT.	4 PT.	5 PT.
5 GL.	1 TBS.	1 FL OZ.	1.5 FL OZ.	2.5 FL OZ.	3 FL OZ.	4 FL OZ.
1 GL.	1/2 TSP.	1 TSP.	2 TSP.	3 TSP.	4 TSP.	5 TSP.

**NOTE:** These are approximate equivalents.



## SALES OFFICES

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 P.O. 429

Phone: 828-692-2233  
 U.S. 800-627-1121  
 FAX 828-693-7554

Boone, NC 28607  
 P.O. 85

Phone: 828-264-8843  
 U.S. 800-477-8843  
 FAX 828-264-5236