

## LAWN INSECT CONTROL.

To control insects listed below, apply recommended rates. For control of Ants, Brown Dog Ticks, Clover Mites, Crickets, Earwigs, Fleas, Millipeds, Sowbugs, and Springtails (Collembola), which are commonly found near the house and may enter the house, spray a 5-ft. band of soil around the house, as well as the house foundation wall to a height of 2-3 ft. Repeat application if necessary.

Insects	Rate/1,000 sq. ft.		Remarks
	Diazinon 500	Water	
Lawn Chinch Bugs	2-3 fl.oz. or 3-6 fl.oz.	25 gals.*	Use higher rate for longer residual control and in lawns of dense growth, such as St. Augustine lawns.
Ants, Army- worms, Clover Mites, Spring- tails (Collem- bola), Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Sod Webworms (Lawn Moths), Sowbugs	4 fl.oz.	3 gals.	Spot spray ant hills and wasp ground nest openings.  For lawn billbugs, irrigate the lawn thoroughly immediately after treatment.  For frit flies, mow grass and water well before treatment but delay application until grass is dry. Do not water again until necessary.
Brown Dog Ticks, Bermudagrass Mites, Chiggers, Fleas Leafhoppers	1½ fl.oz.	3 gals.	Do not apply to animals.  For brown dog ticks, spray grass and under shrubbery, particularly near house.
Millipeds	8 fl.oz.	3 gals.	
Rhodesgrass Scales	5 fl.oz.	25 gals.*	Apply when crawlers first emerge.

\*Or make application in 3 gals. of water per 1,000 sq. ft. and thoroughly water immediately following application.

BOXELDER BUGS: Spray bugs outside the home with 1½-2½ fl. oz. (2½-5 tablespoons) in 1 gal. water. At the same time, thoroughly spray around foundation, windows, doors, tree trunks, and into cracks and other places where the insects hide.

BILLBUGS, WHITE GRUBS (such as Japanese Beetle Larvae, European Chafer, Southern Chafer): Apply 4 fl. oz. per 1,000 sq. ft. of lawn. Water grass thoroughly after application. For grub control make application any time between late July and early October. For billbug control apply when activity is first observed or when chewed or brown grass is present, indicating damage from this insect.

HYPERODES WEEVIL (New York only): Apply 3 fl. oz. per 1,000 sq. ft. of grass. Water grass thoroughly after application. Treat problem areas in mid-April and again in mid-May.

#### FOREST INSECTS

PINE (Seed Orchards, Plantations, Forests)

Arkansas Sawfly (Loblolly Sawfly): Apply  $\frac{1}{2}$  pt. per acre over the tree canopy. Application should be made at or near the completion of egg hatch. Aerial applications should be made with a minimum of 2 gals. of spray per acre, in swaths not more than 90 ft. wide. Repeat application as needed.

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**WARNING:** May be fatal if swallowed. May be absorbed through skin. Do not breathe spray mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Avoid contamination of food. Do not use on humans or permit children to go onto sprayed grass until spray has completely dried. Keep out of reach of domestic animals. Do not contaminate feed or use on household pets or livestock. Do not permit pets to go onto sprayed grass until spray has completely dried.

##### ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. Birds feeding on treated areas may be killed. Keep out of lakes, streams, ponds, tidal marshes, and estuaries (except for effluence from treated water-cress beds). Do not apply to water that will be used for recreational purposes and human and livestock consumption. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. This product must not be used in areas where impact on threatened endangered species is likely. Contact your State Fish and Game Agency for information pertaining to areas having threatened endangered species. Apply this product only as specified on this label. This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply when bees are actively visiting the crop, cover crop, or weeds blooming in the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

##### PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill, or store near heat or open flame.

##### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Pesticide, spray mixture, or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies. Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling, reconditioning, or disposal in approved landfill, or bury in a safe place. Consult federal, state, or local disposal authorities for approved alternative procedures.

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (WH-567) WASHINGTON, D.C. 20460	EPA REGISTRATION NO.	DATE OF ISSUANCE <b>OCT 25 1982</b>
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT	
NOTICE OF PESTICIDE: <input type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)		
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)		
[Faded text, possibly: ... ... ...]		
NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.		
On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.		
A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.		
Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.		
This product is certified by registration in accordance with the Act.		
The registrant under the Act is required to provide the following information:		
1. The name and/or other data required for registration/reregistration of your product under the Act.		
2. The labeling changes required by law before you release the product for shipment.		
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SIGNATURE OF APPROVING OFFICIAL		
DATE		

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3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

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

A stamped copy of the label is enclosed for your records.

Sincerely yours,

George T. LaRocca  
Product Manager (15)  
Insecticide-Rodenticide Branch  
Registration Division (TS-767C)



ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

OCT 25 1982

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
3314-80

DIAZINON<sup>®</sup> - 500  
INSECTICIDE

FOR AGRICULTURAL OR COMMERCIAL USE ONLY

For Control of Certain  
Insects on Fruits, Nuts,  
Vegetables, Field Crops,  
and Ornamentals

Contains 4 lbs. Diazinon Per Gal.

ACTIVE INGREDIENTS:

O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl phosphorothioate .....	48.00%
Xylene Range Aromatic Solvent .....	39.75%
INERT INGREDIENTS .....	12.25%

Diazinon - Registered Trademark Ciba-Giegy

KEEP OUT OF REACH OF CHILDREN

WARNING

Statement Of Practical Treatments

IF SWALLOWED - Call a physician or Poison Control Center immediately.  
If possible vomiting should be induced under medical supervision.  
Vomiting may cause aspiration pneumonia. If necessary give victim  
one or two glasses of water and insert finger in back of throat.  
Repeat until vomit fluid is clear. Do not induce vomiting or give  
anything by mouth to an unconscious person.

IF INHALED - Remove victim to fresh air. Apply artificial respiration  
if indicated.

IF ON SKIN - Remove contaminated clothing and wash effected area  
thoroughly with soap and water.

IF IN EYES - Flush eyes with plenty of water. Call a physician  
immediately.

NOTE TO PHYSICIAN - Gastric lavage is indicated. Atropine Sulfate or  
2-PAM are specific antidotes.

See Side Panel For Additional Precautionary Statements

EPA Reg. No. 3314-

EPA Est. No. 3314-FL-1

NET CONTENTS \_\_\_\_\_ Gallon

COLONIAL PRODUCTS, INC.  
1830 Tenth Avenue North  
Lake Worth FL 33461

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

## FRUIT AND NUT CROPS

Note: Unless otherwise stated, the following rates should be applied as a dilute full cover spray.

## ALMONDS

Mites, Twig Borers: Apply 1-1½ pts. per 100 gals. of water.  
Parlatoria Scales, San Jose Scale: Mix 1-1½ pts. Diazinon 500 plus 2-3 gals. dormant oil per 100 gals. of water and apply as a dormant spray.  
Almond hulls may be used for feed for livestock.

## APRICOTS

Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers: Mix 1 pt. per 100 gals. of water. Apply when aphids, mites and scale crawlers first appear.  
Olive Scale Crawlers: Mix 1 pt. of Diazinon 500 plus 1½ gals. of light medium horticultural oil per 100 gals. of water. Apply when scale crawlers are present.  
Apricot Mealybugs: Mix 1 pt. per 100 gals. of water. Apply as a cover spray from petal fall to June. Do not apply within 10 days of harvest.

## BLUEBERRIES

Cranberry Fruitworms, Cherry Fruitworms, Blueberry Maggots, Aphids, Thrips, Twospotted Mites: Mix 1 pt. per 100 gals. of water. Apply up to 200 gals. of spray per acre. Do not apply within 7 days of harvest.

## CANE BERRIES

Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries  
Leafhoppers, Thrips, Aphids, Twospotted Mites, Raspberry Sawflies: Apply 2 pts. per acre in a minimum of 100 gals. of water.  
Raspberry Fruitworms: Apply at the above rates when blossom buds separate and repeat application immediately before blossoms open.  
Blueberry Mites: Apply 1-2 qts. per acre in a minimum of 100 gals. of water. Apply as a dormant spray in early spring, when canes are still on the ground and buds are closed. Make a second application when the buds are well developed, but still closed. Do not apply within 7 days of harvest.  
Raspberry Crown Borers (Raspberry Root Borers): Apply 2 qts. per acre in a minimum of 100 gals. of water as a drench to the crown area and to the lower canes. Apply either in the spring before berries begin to form or in the fall after harvest.

## CHERRIES

Eyespotted Bud Moths, Fruittree Leafrollers: Mix 1 pt. per 100 gals. of water. Apply in cover sprays as necessary beginning with petal fall.  
Cherry Fruit Flies: Mix ½-1 pt. per 100 gals. of water. Make 3 or 4 applications, beginning when adult cherry fruit flies begin to emerge and repeat at 10-day intervals.  
Leafhoppers: Apply 1 pt. per 100 gals. of water in 3-5 applications beginning at petal fall and continuing through the growing season, or apply as infestations develop.  
Black Cherry Aphids: Mix 1 pt. per 100 gals. of water. Apply as a cover spray when aphids appear and repeat after 10 days.

San Jose Scale Crawlers: Mix 1 pt. per 100 gals. of water. Apply during the pre-pink stage or when crawlers first appear. Do not apply within 10 days of harvest.

Cherry Rust Mites: Mix 1/2-1 pt. per 100 gals. of water. Apply as a supplemental spray after harvest.

#### CITRUS FRUITS

Grapefruit, Lemons, Limes, Oranges, Tangelos, Tangerines, Citrus Citron, Kumquats and hybrids of these

Citrus Aphids, Fruittree Leafrollers, Cottonycushion Scale Crawlers, Soft Scale Crawlers: Apply 1/2-1 pt. per 100 gals. of water (maximum 1,000 gals. per acre) as a thorough cover spray when aphids and crawler stages of scale insects first appear.

Fruittree Leafrollers: Use 1/2-1 pt. per 100 gals. of spray (maximum 1,000 gals. per acre) when an average of 50 percent of eggs in egg masses have hatched in the spring.

Citrus Thrips: Apply 1 pt. in 100 gals. of water (maximum 1,000 gals. per acre) when thrips first appear.

Citrus Snow Scale: Apply 1-2 pts. per 100 gals. of water (maximum 1,000 gals. per acre) as a postbloom spray and again as a summer spray. For heavy snow scale infestations, use the higher dosage rate. Thorough coverage of tree trunks, limbs and twigs is essential. Do not apply during bloom. Do not apply to citrus within 21 days of harvest. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources.

#### CRANBERRIES

Blackheaded Fireworms (*Rhopobota naevana*): Apply 2 qts. in 400 gals. of water per acre.

Cranberry Fruitworms: Apply 3 qts. in 400 gals. of water per acre. Do not apply within 7 days of harvest.

#### FIGS

Vinegar Flies (*Drosophila* spp.), Dried Fruit Beetles: Apply 1 pt. per 100 gals. of water. Do not apply within 5 days of harvest.

#### FILBERTS

Filbert Leafrollers, Aphids: Apply 1-2 qts. in 250-400 gals. of water per acre as a thorough cover spray.

#### GRAPES

Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leafrollers: Apply 1-2 pts. per acre in a minimum of 100 gals. of water as a thorough cover spray. Do not apply within 18 days of harvest.

*Drosophila* spp.: Apply 12-18 fl. oz. per acre in a minimum of 100 gals. of water as a thorough cover spray, or apply when insects first appear. Make additional applications at weekly intervals as necessary. Do not apply within 7 days of harvest.

#### OLIVES

Olive Scales: Mix 3/4-1 pt. of Diazinon 500 plus 1 l. gals. of light-medium summer horticultural oil per 100 gals. of water. Apply as a cover spray in June or July. Do not apply during bloom to avoid injury to pollinating insects or within 75 days of harvest.

## PEACHES, NECTARINES

Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers: Mix 1 pt. per 100 gals. of water. Apply when aphids, mites and scale crawlers first appear.

Olive Scale Crawlers: Mix 1/2 pt. of Diazinon 500 plus 1 1/2 gals. of light medium horticultural oil per 100 gals. of water. Apply when scale crawlers are present.

Oriental Fruit Moths: Mix 1 pt. per 100 gals. of water and apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult oriental fruit moth flight, if possible.

Peach Twig Borers: Mix 1 pt. per 100 gals. of water and apply to peaches in May and June.

Leafhoppers (Peaches only): Apply 1 pt. per 100 gals. of water in 3-5 applications beginning at petal fall and continuing through the growing season, or apply as infestations develop.

White Peach Scale (Peaches only): As a post-harvest spray apply 1 1/2-2 pts. per 100 gals. of water timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestations, two applications may be necessary. Do not apply to peaches within 20 days, or to nectarines within 10 days of harvest.

## PECANS

Aphids, Mites, Pecan Nut Casebearers, Walnut Caterpillars: Apply 1-3 qts. per acre as a foliage spray in a minimum of 100 gals. of water. Do not apply after husks crack.

## PINEAPPLE

Scales: Apply 5 qts. of Diazinon 500 plus 2 gals. of light medium horticultural oil in 500 gals. of water per acre to the vegetative slips on the plants following harvest of pineapple.

Mealybugs: Apply 2 qts. per acre in a minimum of 100 gals. of water. May be applied on day of harvest.

Pineapple forage and refuse may be fed to livestock 7 days following last application.

## PLUMS, PRUNES

Brown Mites (Clover Mites), European Red Mites: Apply 1 pt. per 100 gals. of water

Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids: Apply 1/2-1 pt. per 100 gals. of water. Do not apply within 10 days of harvest.

## STRAWBERRIES

Aphids, Twospotted Spider Mites: Apply 1 pt. per 100 gals. of water per acre.

Cyclamen Mites: Apply 1 qt. per 100 gals. of water per acre, directing spray to plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Make additional applications necessary, after harvest.

Mole Crickets: Broadcast 1 qt. per acre when insects are present. Apply 1-2 days before transplanting and immediately mix into the top 1-2 inches of soil.

Strawberry Leafrollers: Mix 3/4-1 pt. per 100 gals. of water. Apply 200 gals. of spray per acre when blossoms show color. Do not apply within 5 days of harvest.



## WALNUTS

Aphids, Mites: Apply 1 qt. per acre as a foliage spray in a minimum of 100 gals. of water.

Codling Moths, Scale Crawlers, Walnut Caterpillars: Apply 3 qts. per acre as a foliage spray in a minimum of 100 gals. of water. Do not apply after the husks open.

## VEGETABLE FOLIAR INSECTS

Unless otherwise stated, foliar applications of Diazinon 500 should always be applied to vegetable crops as a spray in a minimum of 2 gals. of water per acre for aerial applications and a minimum of 10 gals. of water per acre for ground applications.

## BEANS

Pole Beans, Snap Beans, Lima Beans

Black Bean Aphids, Mexican Bean Beetles, Leafminers: Apply 1-1½ pts. per acre.

Cucumber Beetles: Apply ¾ pt. in 100 gals. of water per acre. Do not apply within 7 days of bean harvest. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

## LIMA BEANS

Dipterous Leafminers, Leafhoppers, Mites: Apply 1 pt. per acre. Do not apply within 7 days of harvest. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

## BROCCOLI, CABBAGE, CAULIFLOWER

Aphids, Diamondback Moths, Imported Cabbageworms: Apply ½-1 pt. per acre. Applications at 7-10 day intervals will usually be required. Do not apply to broccoli or cauliflower within 5 days, or to cabbage within 7 days of harvest.

## BRUSSELS SPROUTS

Aphids, Diamondback Moths, Imported Cabbageworms: Apply 1 pt. per acre. Generally, applications at 7-10 day intervals will be required. Do not apply to brussels sprouts within 7 days of harvest.

## CARROTS

Aphids: Apply 1 pt. per acre. Do not apply within 10 days of harvest.

## CELERY

Aphids, Flea Beetles: Apply 1 pt. in 100 gals. of water per acre. Do not apply within 10 days of harvest. Plants should be market trimmed (tops removed) before being shipped or used. Tops should not be used for feed or food.

## COLLARDS, KALE, SWISS CHARD, TURNIP TOPS

Aphids, Imported Cabbageworms, Diamondback Moths, Harlequin Cabbage Bugs: Apply ½-1 pt. per acre. Do not apply to collards, kale, or turnip tops within 10 days, or to Swiss chard within 12 days, of harvest.

## CUCUMBERS

Aphids, Serpentine Leafminers, Thrips: Apply 1 pt. per acre. Do not apply within 7 days of harvest.

## LETTUCE, ENDIVE

Aphids, Dipterous Leafminers: Apply  $\frac{1}{2}$ -1 pt. per acre. Do not apply within 10 days of harvest.

## MELONS, SQUASH

Cantaloupes, Casabas, Crenshaws, Honeydew Melons, Muskmelons, Persian Melons, and hybrids of these: Watermelons and their hybrids; Summer and Winter Squash

Aphids, Leafhoppers, Mites: Apply 1-1 $\frac{1}{2}$  pts. per acre.

Serpentine Leafminers, Thrips: Apply  $\frac{1}{2}$ -1 pt. per acre. Do not apply to melons and winter squash within 3 days, or to summer squash within 7 days, of harvest.

## MUSHROOM HOUSES

Mushroom Flies (Phorids and Sciarids): Mix  $\frac{1}{2}$ -1 gal. in 50 gals. of water (0.5% to 1.0% actual Diazinon) and spray on outside and inside walls and ventilators of mushroom houses, after compost in beds has been pasteurized by heating. Do not spray compost in beds or after spawning. To treat wooden sides of beds, posts, doors and door frames after pasteurizing, mix  $\frac{1}{2}$  pt. in 6 gals. of water and apply with a brush. Do not treat compost.

## ONIONS

Onion Thrips: Apply 1 pt. per acre. Do not apply within 10 days of harvest.

## PEAS

Aphids, Leafminers: Apply  $\frac{3}{4}$ -1 pt. per acre. Peas may be picked immediately. Pea vines and pea vine hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.

## PEPPERS

Aphids, Serpentine Leafminers: Apply  $\frac{1}{2}$  pt. per acre. Do not apply within 5 days of harvest.

## POTATOES

Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leafminers: Apply at the rate of  $\frac{1}{2}$ - $\frac{3}{4}$  pt. per acre.

Banded Cucumber Beetles, Leafhoppers, Southern Armyworms: Apply  $\frac{3}{4}$ -1 pt. per acre. Do not apply within 35 days of harvest.

## RADISHES, PARSNIPS, TURNIPS

Aphids, Flea Beetles, Dipterous Leafminers: Apply  $\frac{1}{2}$ -1 pt. per acre. Do not apply within 10 days of harvest.

## SPINACH, BEETS

Aphids, Dipterous Leafminers: Apply  $\frac{1}{2}$ -1 pt. per acre. Do not apply to spinach within 10 days, or to beets within 14 days, of harvest.

## SQUASH (Summer and Winter)

See Melons and Squash section.

## SWEET CORN

Corn Earworms: Apply 1-1 $\frac{1}{4}$  qts. per acre when silks first appear. Two or three repeat applications at 2-3 day intervals will usually be necessary.

Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep. Refer also to Corn under Field and Forage Foliar Insects and Field and Forage Soil Insects.

**TOMATOES**

Aphids, Dipterous Leafminers: Apply  $\frac{1}{2}$  pt. per acre. To control leafminers, weekly applications are usually required.

Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms: Apply  $\frac{3}{4}$ -1 pt. per acre.

Vinegar Flies (*Drosophila* spp.): Apply  $\frac{1}{2}$  -1 $\frac{1}{2}$  pts. per acre. Weekly applications are usually required. Do not apply within 1 day of harvest.

**WATERCRESS (Hawaii only)**

Cyclamen Mites: Mix 1 pt. per 100 gals. of water and apply to one acre as a thorough cover spray. Spray should be directed into the crowns and growing tips of plants. If infestation is heavy, make a second application no later than 10 days after the first application. Repeat applications as necessary. Do not apply within 5 days of harvest.

**VEGETABLE SOIL INSECTS**

Unless otherwise stated, soil applications of Diazinon 500 should always be applied to vegetable crops as a spray in a minimum of 5 gals. of water per acre for ground applications.

**CUTWORMS (Surface and Subterranean)**

Broccoli	Kale	Snap Beans
Brussels Sprouts	Lettuce	Spinach
Cabbage	Lima Beans	Summer Squash
Cantaloupes	Muskmelons	Sweet Corn
Cauliflower	Parsley	Swiss Chard
Celery	Peas	Tomatoes
Collards	Peppers	Watermelons
Cucumbers	Potatoes	Winter Squash

**Endive (Escarole)**

Broadcast 2-4 qts. per acre just prior to planting. Work into the soil immediately, 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

**GARDEN SYMPHYLANS (centipedes)**

Cabbage	Peas	Snap Beans
Carrots	Pole Beans	Tomatoes
Corn	Radishes	Turnips
Lettuce	Red Beets	

Broadcast 10 qts. per acre just prior to planting. Immediately work into soil 4-8 inches. This preplant treatment will also control other soil insects: cutworms (surface and subterranean), mole crickets, root maggots, and wireworms.

**MOLE CRICKETS**

Broccoli	Endive (Escarole)	Radishes
Brussels Sprouts	Kale	Tomatoes
Cabbage	Lettuce	Turnips
Cauliflower	Mustard	
Collards	Peppers	

Broadcast 1 qt. per acre when insects are present. Make application to plant beds or field 1-2 days prior to sowing of seed or transplanting and immediately work into soil 1-2 inches.

**ONION MAGGOTS****Onions**

Furrow Application: Apply 1 qt. per acre in sufficient water to drench the seed furrow at planting time.

Broadcast Application: Broadcast 2-4 qts. per acre just prior to planting. Immediately work into soil 3-4 inches.

**ROOT MAGGOTS**

Broccoli, Brussels Sprouts, Cabbage, Cauliflower: Broadcast Application: Broadcast 2-3 qts. per acre and immediately work into the soil 3-4 inches, before seeding, either in the seedbed or in the field, or before transplanting.

Transplant Water (Drench) Application: Mix  $\frac{1}{4}$ - $\frac{1}{2}$  pt. in 50 gals. of transplant water when 200-300 gals. of water are used per acre. May be applied at the rate of  $\frac{1}{2}$ -1 cupful per plant, either by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.

Radishes: Mix 1 qt. in 50 gals. of water. Apply 80-100 gals. per acre (1-1- $\frac{1}{3}$  gals. per 1,000 linear feet of row) in the seed furrow at planting time.

**WIREWORMS**

Broccoli	Endive (Escarole)	Potatoes
Brussels Sprouts	Kale	Snap Beans
Cabbage	Lettuce	Spinach
Cantaloupes	Lima Beans	Summer Squash
Carrots	Muskmelons	Sweet Corn
Cauliflower	Onions	Sweet Potatoes
Celery	Parsley	Swiss Chard
Collards	Peas	Tomatoes
Cucumbers	Peppers	Watermelons
		Winter Squash

Broadcast 3-4 qts. per acre prior to planting, and immediately work into soil 4-8 inches.

Potatoes: Broadcast 3-6 qts. per acre prior to planting. Immediately disk or harrow into soil 4-8 inches.

**SOUTHERN POTATO WIREWORMS (Southeastern U.S.)****Potatoes**

For use to control southern potato wireworms in potatoes grown on mineral soils in the Southeast, apply 2-4 qts. per acre as a soil treatment prior to planting, and immediately mix thoroughly by disking, or other suitable means into the top 3-6 inches of soil, depending on location of wireworms.

**FIELD AND FORAGE FOLIAR INSECTS**

Unless otherwise stated, foliar applications of Diazinon 500 should always be applied to field and forage crops as a spray in a minimum of 2 gals. of water per acre for aerial applications and a minimum of 10 gals. of water per acre for ground applications.

**ALFALFA, CLOVER**

Spotted Alfalfa Aphids, Yellow Clover Aphids, Pea Aphids, Leafhoppers, Plant Bug Nymphs, Mites: Apply 3/4-1 pt. per acre.  
Grasshoppers: Apply 1 pt. per acre.

Following the above applications, dairy and beef cattle and sheep (1) may be grazed immediately following application, (2) may be fed green alfalfa or clover immediately following cutting, and (3) may be fed hay provided alfalfa or clover is not cut for hay for 7 days following treatment.

Alfalfa Weevil Larvae: For control in the spring, apply 2-3 pts. per acre when feeding damage to growing tips becomes evident. Repeat application, if necessary. If damage is already extensive, cut the hay and make application to the stubble. Do not graze dairy and beef animals or sheep for 2 days. Do not cut for hay for 10 days following treatment.

Do not spray livestock directly with either air or ground equipment. Do not treat during bloom to avoid injury to pollinating insects.

**CLOVER**

Striped Ground Crickets: Broadcast 1-2 pts. per acre following seeding in the fall but prior to clover emergence.

**CORN**

Use a minimum of 1 gal. of water for aerial applications and 5 gals. of water for ground applications.

Corn Rootworm Adults: Apply 1/2-1 pt. per acre.

Corn Leaf Aphids: Apply 1-2 pts. per acre. Complete coverage of the upper portions of the plants is essential. Repeat applications as necessary.

Mites: Apply 1 pt. per acre when infestations first appear. Repeat applications as necessary.

Flea Beetles: Apply 1 pt. per acre when insects first appear. Repeat applications as necessary.

Grasshoppers: Apply 1 pt. per acre.

Sap Beetles: Apply 2-2 1/2 pts. per acre. Add 1-2 gals. of soluble mineral oil per acre to the spray mixture. Consult State Agricultural Experiment Stations or State Extension Service Specialists for proper timing of sprays.

Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.

**COTTON**

Spider Mites, Aphids, Leafhoppers, Lygus Bugs, Cotton Leafworms, Cotton Leafperforators: Apply 1-2 pts. in 5-25 gals. of water per acre. Repeat as infestation warrants. Do not apply within 14 days of harvest. Do not graze treated cotton plants, or feed gin waste to livestock.

**GUAR (Texas and Oklahoma only)**

Midge: Apply 1/2-1 pt. per acre in a minimum of 10 gals. of water for ground application or 2 gals. of water for aerial application when 15% of the blooms are infested. Should the infestation warrant, repeat applications should be made in 5-6 days.

Do not make more than 3 applications to the same crop. Do not apply within 12 weeks of harvest. Do not graze or feed treated forage to livestock within 12 weeks of harvest.

**HOPS**

Aphids, Mites: Apply 1 qt. per acre. Do not apply within 14 days of harvest.

**SORGHUM**

Use a minimum of 1 gal. of water for aerial applications and 5 gals. for ground applications.

Sorghum Midge: Apply 1/2-1 pt. per acre when 90% of heads have emerged from the boot. Repeat application within 4 days.

Mites: Apply 1 pt. per acre when infestation first appears and repeat applications as necessary.

Greenbug: Apply at the rates indicated below when infestation first appears and repeat as necessary.

Texas and Oklahoma - Apply 1/2-1 pt. per acre.

All other areas - Apply 1 pt. per acre.

Crop may be fed to livestock immediately following treatment. Do not apply within 7 days of harvesting for grain.

**SUGAR BEETS**

Beet Leafhoppers, Dipterous Leafminers, Aphids: Apply 3/4-1 pt. per acre.

Grasshoppers: Apply 1 pt. per acre.

Tops may be fed to beef and dairy animals.

**SUGARCANE**

Aphids: Apply 1/2-1 pt. per acre. Allow 1 day between last application and harvest. Bagasse and forage may be fed to livestock.

**TOBACCO**

Aphids, Flea Beetles: Apply 1/2-3/4 pt. per acre. Do not apply within 3 days of harvest.

Grasshoppers: Apply 1 pt. per acre. Do not apply within 14 days of harvest.

**FIELD AND FORAGE SOIL INSECTS**

Unless otherwise stated, soil applications of Diazinon 500 should always be applied to field and forage crops as a spray in a minimum of 5 gals. of water per acre for ground applications.

**ALFALFA, CLOVER**

Cutworms (Surface and Subterranean): Broadcast 2-4 qts. per acre just prior to planting. Work into the soil immediately, 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

## CORN

## Corn Rootworm Larvae:

Postemergence Basal Treatment: Apply 1½-2½ oz. per 1,000 linear feet of corn row in sufficient water to thoroughly wet base of corn plant and a narrow band of soil next to the plant. Refer to the row spacing chart for amounts recommended per acre. Cover treated band with 2-3 inches of soil using a disk hiller or cultivator immediately after spraying.

Application should be made at the first sign of corn rootworm larvae, but not later than June 24 in the Middle Corn Belt, or July 1 in the Northern Corn Belt.

## Suggested Rates According to Row Spacing for Corn Rootworm Larvae Control

Row Spacing	Linear Feet of Corn Row/Acre	Postemergence Basal Treatment (Fl. oz.)
48"	10,890	14-28
42"	12,455	15.5-31
40"	13,068	16-32 (½-1 qt.)
38"	13,939	17.5-35
36"	14,250	18-36
30"	17,424	22-44
24"	21,780	27.5-55
20"	26,136	32-64 (1-2 qts.)
15"	34,848	44-88

Note: For row spacings not listed, calculate the approximate dosage based on the 40-inch row figure.

Seedcorn Maggots: Broadcast 2-4 qts. per acre just prior to planting. Work immediately into soil 2 inches.

Cutworms (Surface and Subterranean): Broadcast 2-4 qts. per acre. For surface cutworms apply just prior to planting or when larvae first appear, and immediately work into soil 1-2 inches. Do not apply later than lay-by. For subterranean cutworms apply just prior to planting and immediately work into soil 3-6 inches.

Wireworms: Apply 3-4 qts. per acre prior to planting and immediately work into the soil 4-8 inches.

Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.

## COWPEAS

Cutworms (Surface and Subterranean): Broadcast 2-4 qts. per acre just prior to planting. Work into the soil immediately, 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

## LESPEDEZA

Cutworms (Surface and Subterranean): Broadcast 2-4 qts. per acre just prior to planting. Work into the soil immediately, 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

**PEANUTS**

**Cutworms:** Apply 2 qts. per acre in a 12-inch band over the row. Thorough coverage of the foliage is essential. Begin application when small larvae appear. Two or three additional applications at three-week intervals may be necessary. Do not apply within 21 days of peanut harvest.

**Livestock** (1) may be fed peanut hulls, (2) may be fed peanut forage 7 days following treatment, and (3) may be fed peanut hay 21 days following treatment.

**SORGHUM**

**Cutworms (surface and Subterranean):** Broadcast 2-4 qts. per acre just prior to planting. Work into the soil immediately, 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

**SOYBEANS**

**Cutworms (Surface and Subterranean):** Broadcast 2-4 qts. per acre just prior to planting. Work into the soil immediately, 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

**SUGAR BEETS**

**Wireworms:** Broadcast 3-4 qts. per acre just prior to planting, and immediately work into soil 4-8 inches. Tops may be fed to beef and dairy animals.

**SUGARCANE**

**Wireworms:** Apply 1 gal. per acre in a 12-inch band centered over the furrow. Make application directly to seed pieces in open furrow at covering time.

**TOBACCO**

**Cutworms:** Broadcast 2-3 qts. per acre before transplanting and immediately work into the soil 2-4 inches.

**Green June Beetle Larvae:** Mix  $\frac{1}{4}$  pt. in 50 gals. of water and apply as a drench (100 gals. per 100 sq. yds.) to uprooted areas of plant beds with sprinkling can.

**Mole Crickets:** Broadcast 1 qt. per acre, when insects are present. Make application to beds or fields 1-2 days prior to sowing of seed or transplanting, and immediately work into soil 1-2 inches.

**Seedcorn Maggots:** Broadcast 3 pts. per acre, 3-4 weeks before transplanting. Immediately work into soil 2 inches.

**Wireworms:** Broadcast 2-3 qts. per acre, 3-4 weeks before transplanting. Immediately work into soil 6-9 inches.

**RANGE, PASTURE, AND GRASSLAND INSECTS**

Unless otherwise stated, Diazinon 500 should always be applied as a spray in a minimum of 1 gal. of water per acre for aerial applications and a minimum of 5 gals. of water per acre for ground applications.

**BERMUDAGRASS AND FORAGE GRASSES (OTHER THAN RANGE AND PASTURE GRASSES)**

**Thrips, Whiteflies, Grasshoppers:** Apply 1 pt. per acre.

Dairy and beef cattle and sheep (1) may be grazed immediately following application, (2) may be fed green forage immediately following cutting. Forage grasses may be cut for hay 7 days following treatment. Do not repeat application for 30 days.



## RANGELAND, PASTURE, DITCH BANKS, ROADSIDES, WASTELAND, NONCROP AREAS, BARRIER STRIPS

Grasshoppers: Apply 3/4-1 pt. per acre in water or oil (minimum of 1 gal. of oil per acre) when insects first appear, preferably in the nymphal stage. Thorough coverage of the foliage is essential. Dairy and beef cattle and sheep (1) may be grazed immediately following application, (2) may be fed green forage immediately following cutting, and (3) may be fed hay provided grass is not cut for hay for 21 days if the spray is a water solution, or for 30 days if the spray is an oil solution. Do not spray livestock directly with either air or ground equipment. Do not repeat application for 30 days.

## ORNAMENTAL INSECT CONTROL

To control certain insects on Arborvitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Douglas Fir, Elm, Gladioli, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Oak, Pine, Plum, Poplar, Rhododendron, Rose, Spruce, and Willow, apply the recommended rates indicated below:

Insects	Rate per 3 gals. water	Rate per 100 gals. water
Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dipterous Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leaf-tiers, Privet Mites, Scale Crawlers (Cottonycushion, Lecanium, Pine Needle, San Jose, Soft Scale), Thrips, Twospotted Mites, Webworms, Whiteflies	1/2 fl. oz.*	1 pt.**
Apple-and-Thorn Skeletonizers, Cotoneaster Webworms, Fall Webworms, Hemlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars	1 1/2 fl. oz.*	3 pts.**

\*1 fl. oz. = 2 tablespoons

\*\*16 fl. oz. = 1 pint

Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea and Gardenia, since injury to the plants may occur.

Mimosa Webworms: Mix 1/2 fl. oz. in 3 gals. of water (or 1 pt. in 100 gals. of water) and apply as a thorough foliar spray when adults first appear. Make a second and third application at 4-5 week intervals.