

Lawn Insect Control

To control insects listed below, apply recommended rates. For control of Ants, Brown Dog Ticks, Clover Mites, Crickets, Earwigs, Fleas, Millipedes, Sowbugs, and Collembola (Springtails), 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 AG500	Water	
Lawn Chiggers 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, Collembola (Springtails), Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Sod Webworms (Lawn Moths)	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 Bermuda Mites, Chiggers, Fleas, Leafhoppers	1-1/4 fl.	3 gals.	Do not apply to animals. For brown dog ticks spray grass and under shrubbery, particularly near house.
Millipedes	8 fl. oz.	3 gals.	
Rhodes-grass Scales	5 fl. oz.	25 gals.	Apply when crawlers first emerge.

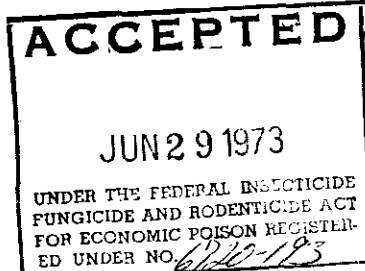
* Alternately, make application in 3 gals. of water per 1,000 sq. ft. and thoroughly water immediately following application.

Complete directions for use of Diazinon AG500 for insect control on those crops listed below are contained in a booklet attached to this container.

Alfalfa	Cucumbers	Olives	Sorghum
Almonds	Endive	Onions	Soybeans
Apricots	(escarole)	Oranges	Spinach
Beets	Field Corn	Ornamentals	Squash
Bermudagrass	Figs	Parsnips	Strawberries
Blueberries	Filberts	Pasture and Grass Forage	Sugar Beets
Broccoli	Grapefruit	Peaches	Sugarcane
Brussels Sprouts	Grapes	Peanuts	Sweet Corn
Cabbage	Hops	Peas	Sweet Potatoes
Caneberries	Kale	Pecans	Swiss Chard
Carrots	Lawns	Peppers	Tobacco
Cauliflower	Lemons	Pineapple	Tomatoes
Celery	Lespedeza	Plums	Turnips
Cherries	Lettuce	Pole Beans	Turnip Tops
Clover	Lima Beans	Potatoes	Walnuts
Collards	Melons	Prunes	
Cotton	Mushroom Houses	Radishes	
Cowpeas	Nectarines	Rangetand	
Cranberries		Snap Beans	



Diazinon* AG 500



Insecticide

For control of insects on fruits, nuts, vegetables, field crops, and ornamentals.

Warning:

Keep out of reach of children. See additional warning statements on back/side of container.

One Gallon

U.S. Standard Measure

Active Ingredients:

0,0-diethyl 0-(2-isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate	48%
Xylene	38%
Inert Ingredients	14%
Total	100%

Diazinon AG500 contains 4 lbs. Diazinon per gallon.

*Diazinon® - Reg. Trademark of CIBA-GEIGY Corporation

E.P.A. Reg. No. 6720-193

6720-193

06/29/1973

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IMPORTANT: Read the entire Directions for Use and Notice before using this product.

NOTICE: Seller's guaranty shall be limited to the terms of the label and subject thereto. The buyer assumes any risk to persons or property arising out of the use or handling and accepts the product on these conditions.

WARNING

KEEP OUT OF REACH OF CHILDREN

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 on to sprayed grass until spray has completely dried. Fish and Wildlife Caution: This product is toxic to fish and wildlife. Birds feeding on treated areas may be killed. Keep out of any body of water. Do not apply when weather conditions favor drift from areas treated or where runoff is likely to occur. Do not contaminate water by cleaning or equipment or disposal of wastes. Apply this product only as specified on this label.

This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service.

Do not reuse empty container. Destroy by perforating or crushing and burying in a safe place.

CAUTION: INFLAMMABLE MIXTURE. DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME. Minimum Flash Point 82°F.

General Information

Diazinon AG500 is an emulsifiable solution which when diluted with water according to the directions below is intended for the control of insect pests of agricultural crops. Do not use in barns or dwellings. Do not use on livestock.

In the directions for use given below, best control is obtained when application is made at first sign of insects. Application should be repeated as necessary to maintain control.

NOTE: The marketing of raw agricultural commodities having residues in excess of their permitted tolerances, or marketing those for which no tolerances have been set and bearing residues, will violate Federal Law when shipped in interstate commerce and may violate State Law.

Ornamental Insect Control

To control certain insects on Arbovitae, 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
<i>Acanthium scale</i> <i>Pine needle scale</i>		
Aphids, Bagworms, Carnation Bud Mites , Carnation Shoot , Mites, Clover Mites, Cyclamen Mites, <u>Dipterous Leaf Miners</u> , European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, <u>Obscure</u> Root Weevils, Omnivorous Leaf Tiers, Privet Mites, Scale Crawlers (cottony-cushion, Lecanium, Pine Needle, San Jose, Soft Scale), Thrips, Two-Spotted Mites, Webworms, Whiteflies, <i>San Jose scale, soft scale</i>	1/2 fl. oz.	1 pt.
Apple-and-Thorn Skeletonizers, Cotton-easter Webworms, Fall Webworms, Hemlock Chermes, Oak Loopers, Oblique-banded Leaf Rollers, Pear Slugs, Tent Caterpillars, <i>apple skeletonizer, thorn skeletonizer</i>	1-1/2 fl. oz.	3 pts.

*1 fl. oz. - 2 tablespoons
16 fl. oz. - 1 pint

Do not use on certain 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.

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

Citrus Aphids, Fruit-Tree Leaf Rollers, Cottony-Cushion Scale Crawlers, and Soft Scale Crawlers: Apply 1/2 - 1 pt. per 100 gals. of water (maximum

1000 gals. per acre) as a thorough cover spray when aphids and crawler stages of scale insects first appear.

Fruit-Tree Leaf Rollers: Use 1/2 - 1 pt. per 100 gals. of spray (maximum 1000 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 1000 gals. per acre) when thrips first appear.

Citrus Snow Scales: Apply 1 - 2 pts. per 100 gals. of water (maximum 1000 gals. per acre) as a post-bloom 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.

Pineapples
Scales: Apply 5 qts. of Diazinon AG500 plus 2 gals. of light or 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.

Strawberries
Aphids, Two-Spotted Spider Mites: Apply 1 pt. per 100 gals. of water per acre.

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

Strawberry Leaf Rollers: 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.

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Diazinon* AG 500

Insecticide

**Complete
directions
for use**

ACCEPTED
JUN 29 1973
UNDER THE FEDERAL INSECTICIDE FUNGICIDE AND RODENTICIDE ACT FOR ECONOMIC POISON REGISTERED UNDER NO. 6720-185

IMPORTANT: Read the entire **Directions For Use** and the **Conditions Of Sale And Warranty** before using this product.

*Diazinon® trademark of CIBA-GEIGY

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Fish and Wildlife Caution: This product is toxic to fish and wildlife. Birds feeding on treated areas may be killed. Keep out of any body of water. Do not apply when weather conditions favor drift from areas treated or where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

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Almonds

Mites, Twig Borers: Apply 1 - 1 1/2 pts. per 100 gals. of water.

Parlatoria Scales, San Jose Scales: Mix 1 - 1 1/2 pts. Diazinon 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 Mies (Clover Mites), Two-Spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers: Mix 1 pt. per 1 1/2 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, Two-Spotted 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.

Canberries

Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries

Leafhoppers, Thrips, Aphids, Two-Spotted 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.

Dryberry 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.

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Cherries:

Eye-Spotted Bud Moths, Fruit-Tree Leaf Rollers: Mix 1 pt. per 100 gals. of water. Apply in cover sprays as necessary, beginning with petal fall.

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.

Cherry Fruit Flies: Mix 1/2 - 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.

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 Scales 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 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, Fruit-Tree Leaf Rollers, Cottony-Cushion Scale Crawlers, and Soft Scale Crawlers: Apply 1/2 - 1 pt. per 100 gals. of water (maximum 1000 gals. per acre) as a thorough cover spray when aphids and crawler stages of scale insects first appear.

Fruit-Tree Leaf Rollers: Use 1/2 - 1 pt. per 100 gals. of spray (maximum 1000 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 1000 gals. per acre) when thrips first appear.

Citrus Snow Scales: Apply 1 - 2 pts. per 100 gals. of water (maximum 1000 gals. per acre) as a post-bloom 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.

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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

Black Headed Fireworms (Sparganothis sulfureana): 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 Leaf Rollers, 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 Leaf Folders: 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 AG500 plus 1 1/2 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 and Nectarines

Aphids, Brown Mites (Clover Mites), Two-Spotted 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 AG500 plus 1 1/2 gals. light medium horticultural oil per 100

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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 2 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 Case-bearers, Walnut

Caterpillars: Apply 1 - 3 qts. per acre per as a foliage spray in a minimum of 100 gals. of water. Do not apply after husks crack.

Pineapples

Scales: Apply 5 qts. of Diazinon AG500 plus 2 gals. of light or 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 and Prunes

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

Leaf Curl 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, Two-spotted Spider Mites: Apply 1 pt. per 100 gals. of water per acre.

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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, if necessary, after harvest.

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

Strawberry Leaf Rollers: 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.

Unless otherwise stated, foliar applications of Diazinon AG500 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, Leaf Miners: Apply 1 - 1 1/2 pts. per acre.

Cucumber Beetles: Apply 3/4 pt. in 100 gal. 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 Leaf Miners, 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.

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Broccoli, Cabbage, and Cauliflower

Aphids, Diamondback Moths, Imported Cabbageworms: Apply 1/2 - 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, and Turnip Tops

Aphids, Imported Cabbageworms, Diamondback Moths, Harlequin Cabbage Bugs, Corn Earworms: Apply 1/2 - 1 pt. per acre. Do not apply to collards, kale, or turnip tops within 10 days, Swiss Chard within 12 days, of harvest.

Cucumbers

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

Lettuce and Endive

Aphids, Dipterous Leaf Miners: Apply 1/2 - 1 pt. per acre. Do not apply within 10 days of harvest.

Melons and Squash

Chantaloupes, Casabas, Greenshaws, Honeydew Melons, Muskmelons, Persian Melons, and hybrids of these; Watermelons and their hybrids; Summer and Winter Squash

Aphids, Leafhoppers, Mites: Apply 1 - 1 1/2 pts. per acre.

Serpentine Leaf Miners, Thrips: Apply 1/2 - 1 pt. per acre.

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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 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 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, Leaf Miners: Apply 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 Leaf Miners: Apply 1/2 pt. per acre. Do not apply within 5 days of harvest.

Potatoes

Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leaf Miners: Apply at the rate of 1/2 - 3/4 pt. per acre.

Banded Cucumber Beetles, Leafhoppers, Southern Armyworms: Apply 3/4 - 1 pt. per acre.

Do not apply within 35 days of harvest.

Radishes, Parsnips, and Turnips

Aphids, Flea Beetles, Dipterous Leaf Miners: Apply 1/2 - 1 pt. per acre. Do not apply within 10 days of harvest.

Spinach and Beets

Aphids, Dipterous Leaf Miners: Apply 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 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 Leaf Miners: Apply 1/2 pt. per acre. To control leaf miners weekly applications are usually required.

Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms: Apply 3/4 - 1 pt. per acre.

Vinegar Flies (*Drosophila spp.*): Apply 1/2 - 1 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.

Unless otherwise stated, soil applications of Diazinon AG500 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 | Parsley |
| Brussels Sprouts | Peas |
| Cabbage | Peppers |
| Cantaloupes | Potatoes |
| Cauliflower | Snap Beans |
| Celery | Spinach |
| Collards | Summer Squash |
| Cucumbers | Sweet Corn |
| Endive (escarole) | Swiss Chard |
| Kale | Tomatoes |
| Lettuce | Watermelons |
| Lima Beans | Winter Squash |
| Muskmelons | |

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

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

Mole Crickets

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

Broadcast 1 qt. per acre when insects are present. Make application to plant beds or field 1 - 2 days

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prior to sowing of seed or transplanting and work into soil 1 - 2 inches immediately.

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. Work into soil 3 - 4 inches immediately.

Root Maggots

Broccoli, Brussels Sprouts, Cabbage and 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 1/4 - 1/2 pt. in 50 gals. of translant water, when 200 - 300 gals. of water are used per acre. May be applied at the rate of 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 1/3 gals. per 1,000 linear feet of row) in the seed furrow at planting time

Wireworms

- Broccoli
- Brussels Sprouts
- Cabbage
- Cantaloupes
- Carrots
- Cauliflower
- Celery
- Collards
- Cucumbers
- Endive (escarole)
- Kale
- Lettuce
- Lima Beans
- Muskmelons

- Onions
- Parsley
- Peas
- Peppers
- Potatoes
- Snap Beans
- Spinach
- Summer Squash
- Sweet Corn
- Sweet Potatoes
- Swiss Chard
- Tomatoes
- Watermelons
- Winter Squash

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

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Potatoes

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

Southern Potato Wireworms (Southeastern U.S.): 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 mixed thoroughly by disking, or other suitable means into the top 3 - 6 inches of soil, depending on location of wireworms.

Unless otherwise stated, foliar applications of Diazinon AG500 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 and Clover

Spotted Alfalfa Aphids, Yellow Clover Aphids, Pea Aphids, Leafhoppers, Plant Bug Nymphs, Mites: Apply 1/4 - 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

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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.

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, Cotton Leafworms, Cotton Leaf Perforators: 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.

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. of water 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

Leafhoppers, Dipterous Leaf Miners, Aphids: Apply 3/4 - 1 pt. per acre.

Note: 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 red 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.

Unless otherwise stated, soil applications of Diazinon AG500 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 and 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

Band Application at Planting Time: Apply 1 - 2 qts. per acre. Make application in the seed furrow or apply 2 1/2 - 5 oz. per 1,000 linear feet of corn row in a 4 - 7 inch band directly behind the planter shoe. For band treatment refer to the row spacing chart for amounts recommended per acre.

Postemergence Basal Treatment: Apply 1 1/4 - 2 1/2 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	Rate per acre	
		Planting time application	Postemergence basal treatment
48"	10,890	28-56 oz.	14-28 oz.
42"	12,455	31-62 oz.	15.5-31 oz.
40"	13,068	32-64 oz.	16-32 oz.
		(1-2 qts.)	(1/2-1 qt.)
38"	13,939	35-70 oz.	17.5-35 oz.
36"	14,250	36-72 oz.	18-36 oz.
30"	17,424	44-88 oz.	22-44 oz.
24"	21,780	55-110 oz.	27.5-55 oz.
20"	26,136	64-128 oz.	32-64 oz.
		(2-4 qts.)	(1-2 qts.)
15"	34,848	88-176 oz.	44-88 oz.

NOTE: For row spacings not listed, calculate the appropriate dosage based on the 40-inch row figure. **Seed Corn Maggots:** Broadcast 2 - 4 qts. per acre just prior to planting. Work into soil 2 inches immediately.

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

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

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 cutworm, 3 - 6 inches for subterranean cutworms.

Sugar Beets

Wireworms: Apply 1 gal. per acre just prior to planting, and work into soil 4 - 8 inches immediately. Tops may be fed to beef and dairy animals.

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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 work into the soil 2 - 4 inches immediately.

Green June Beetle Larvae: Mix 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 work into soil 1 - 2 inches immediately.

Seed-Corn Maggots: Broadcast 3 pts. per acre, 3 - 4 weeks before transplanting. Work into soil 2 inches immediately.

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

Unless otherwise stated, Diazinon AG500 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, and (3) forage grasses may be cut for hay 7 days following treatment. Do not repeat application more often than once every 30 days.

Rangeland, Pasture, Ditch Banks, Roadsides, Wasteland, Noncrop Area, And 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.

*Cottony scale
honeydew scale
pine needle scale
spruce scale
soft scale*

To control certain insects on Arbovitae, 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, Cyclemen Mites, Dipsasus Leaf Mites, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obacure Root Weevils, Omnivorous Leaf Tiers, Privet Mites, Scale Crawlers (Cottony-Cushion), Lecanium, Pine Needle, San Jose, Soft Scale, Thrips, Two-Spotted Mites, Webworms, Whiteflies	1/2 fl. oz.	1 pt.*

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apple skeletonizers

Apple-and-Thorn Skeletonizers, Cotton-easter Webworms, Fall Webworms, Hemlock Chermes, Oak Looper, Oblique-banded Leaf-roller, Pear Slugs, Tent Caterpillars	1-1/2 fl. oz.	3 pts.
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*1 fl. oz. - 2 tablespoons
16 fl. oz. - 1 pint

Do not use on certain 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.

To control insects listed below, apply recommended rates. For control of Ants, Brown Dog Ticks, Clover Mites, Crickets, Earwigs, Fleas, Millipedes, Sowbugs, and Collembola (Springtails), 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 AG500	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, Collembola (Springtails) Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Sod Webworms, (lawn Moths)	4 fl. oz.	3 gals.	Spot spray ant hills and wasp ground nest openings. For lawn billbug, irrigate the lawn thoroughly immediately after treatment. For frit flies, mow grass and water well before treat- ment but delay application until grass is dry Do not water again until necessary.
Brown Dog Ticks Bermuda Mites, Chiggers, Fleas, Leafhoppers	1-1/4 fl. oz.	3 gals.	Do not apply to animals. For brown dog ticks spray grass and under shrubby, particu- larly near house.
Millipedes	8 fl. oz.	3 gals.	
Rhodes-grass Scales	5 fl. oz.	25 gals.	Apply when crawlers first emerge.

*Alternately, 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 1¹/₄ - 2¹/₂ fl. oz. (2¹/₂ - 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.

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