

ACCEPTED

DEC 2 1972

UNDER THE FEDERAL INSECTICIDE
REGULATIONS ACT
FOR ECONOMIC POISON REGISTER-
ED UNDER NO. 476-206. SUBJECT
ATTACHED COMMENTS.



PARATHION 25-WP

Organophosphorus Insecticide
For Use In Water

LABEL FOLDER

CONTENTS — USE PRECAUTIONS

DIRECTIONS FOR USE

RECOMMENDATIONS



POISON — DANGER

Before using read all Precautions
and Directions For Use.

NOT FOR HOME USE

EPA REG. NO. 476-206

1-ARC-721130-0

USE PRECAUTIONS

READ ALL PRECAUTIONS AND DIRECTIONS BEFORE USING. Use only for crops and claims recommended.

FISH & WILDLIFE CAUTIONS: This product is toxic to fish and wildlife. Keep out of lakes, streams, and ponds. Birds and other wildlife in treated areas may be killed. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

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.

In order that pesticidal residues on food and forage crops will not exceed tolerances established by the Environmental Protection Agency, use only at recommended rates and intervals, and do not apply closer to harvest than specified. Do not apply or allow to drift to areas occupied by unprotected humans or beneficial animals or onto adjoining food, fiber or pasture crops. The grower is responsible for residues on his crops as well as for damages caused by drift from his property to that of others.

DIRECTIONS FOR USE

To be used only by trained personnel using approved protective equipment.

Aircraft or conventional ground equipment can be used, except as specified, in either high volume or concentrate spraying provided local experience has given good results and no plant injury. For concentrate spraying, calculate the amount of chemical needed to treat an acre, rather than as rate per 100 gal. of water. Measure specified quantity of this product, then wash through filter screen into partly filled spray tank with agitator running. Add balance of water and keep agitator running during mixing, filling, hauling and application operations. Do not allow mixture to stand without agitation. Do not combine with strongly alkaline materials. Do not combine with emulsifiable concentrate liquids unless previous experience has proven physically compatible and safe to plants. Emulsifiable liquids should ALWAYS BE THOROUGHLY emulsified with at least half of total water before adding this product.

SUGGESTED WATER RATES FOR AIRCRAFT AND GROUND EQUIPMENT

The actual rate required to provide thorough coverage varies with type of equipment used and variable size of trees, trees per acre, also plant growth at time of application. Except as specified for certain uses, the following rates are, therefore, intended to cover a broad range of conditions.

Crop	Gal. Water/Acre	
	Aircraft	Ground
Vegetable & Field Crops	5-20	20- 125
Orchard, Grapes	10-40	—
Orchard Crops (see exceptions below)	—	300- 800
Citrus	—	500-3000
Grapes	—	100- 200

Maximum permissible rate per acre, expressed as Parathion 25-WP is given in parenthesis, (), after each crop claim.

Maximum permissible rates per acre and corresponding limitations are listed as a ready reference of legal limits for occasions when rates higher than those recommended are necessary to control unusual infestations. Consult State Agricultural Experiment Stations or Cooperative State Extension Services for additional information as the timing and number of applications may vary with local conditions.

IMPORTANT:

Regardless of the type of equipment used and the volume of water required to make full coverage sprays for tree fruit and nut crops, or to make uniform applications on vegetable and field crops, do not apply more than the maximum permissible rate per acre as specified for each crop claim.

RECOMMENDATIONS FRUIT AND NUT CROPS

Before reading the following crop claims, rates and restrictions, first read the labeling section entitled Directions For Use.

In Northern Calif. do not apply to APRICOTS by aircraft or concentrate sprayers. Do not use on APPLES & PEARS when foliage is wet and under slow drying conditions, especially when concentrate sprays are used.

Unless otherwise specified, rates are given in terms of Parathion 25-WP per 100 gal. water for thorough coverage applications; full coverage sprays for scale control. Repeat as necessary. For codling moth, oriental fruit moth and plum curculio control, apply at petal fall and every 10 to 14 days thereafter until control is achieved.

The term "dormant oil," as used in dormant spray recommendations, requires the use of a type and quantity suitable for the specific tree crop, as specified by the oil manufacturer.

ALMONDS

Dormant Spray: Mite eggs, peach twig borer, scale insects (parlatoria, peach, San Jose). Use 2 lb. per 100 gal. water plus a dormant oil. Make full coverage spray. **CAUTION:** Oil sprays may injure trees. Apply only after winter rains have noticeably moistened bark. (24 lb.)

Petal Fall Spray (when bloom finished on all varieties): Fruit tree leaf roller, Oriental fruit moth, tent caterpillar, peach twig borer. Use 2 lb. Make full coverage spray. **Caution:** Do not apply after hulls open. Do not feed treated hulls to livestock. (12 'b.)

APPLES

DORMANT SPRAYS

Overwintering aphid and mite eggs, scale insects. Use 2 lb. per 100 gal. of water plus a dormant oil. (24 lb.)

SEASONAL SPRAYS

Aphids (green apple, rosy apple, woolly apple), bud moth, codling moth, fruit tree leaf roller, mealybugs, mites (clover, European red, Pacific, Schoenii, two-spotted, Willamette), orange tortrix, plum curculio, red-banded leaf roller (1st, 2nd and 3rd broods), red bug, scales (Forbes, San Jose, scurfy). Use 2 lb.

Caution: Injury to fruit and foliage may result from use of this material on Golden Delicious, Jonathan, McIntosh and related varieties. Consult Agricultural Extension Service. Do not apply within 14 days of harvest. (24 lb.)

APRICOTS (Do not apply by aircraft.)

DORMANT SPRAY

Overwintering mite eggs, peach twig borer, scale insects. Use 2 lb. per 100 gal. plus a dormant oil. Make full coverage spray. (14.4 lb.)

SEASONAL SPRAYS

Mealybug, mealy plum aphid. Use 1 lb.

Codling moth, fruit tree leaf roller, Oriental fruit moth, peach twig borer, scales (European fruit lecanium, San Jose), tortrix. Use 2 to 2 1/4 lb.

Bud moth, fruit tree leaf roller, mealybugs, mites (clover, European, Pacific, Schoenii, Willamette). Use 1 1/2 lb.

Caution: Do not apply until danger of bee poisoning has passed. Do not apply within 14 days of harvest. (14.4 lb.)

CHERRIES

DORMANT SPRAY

Overwintering aphid and mite eggs, scale insects. Use 2 lb. per 100 gal. plus a dormant oil. (8.4 lb.)

SEASONAL SPRAYS

Aphids (including black cherry aphid), cankerworm, cherry fruitworm, cherry slug, eye spotted bud moth, fruit flies (begin at fly emergence and repeat at 7-day intervals), fruit tree leaf roller (apply at petal fall or shuck split), mites, Oriental fruit moth (apply at shuck split and 10 to 12 days later), Pandemis moth, plum curculio (make 2 to 3 applications, 8 to 10 days apart, beginning at petal fall or shuck split), rose chafers, San Jose scale crawlers, sawflies, shot-hole borer, thrips, tortrix. Do not apply within 14 days of harvest. Use 1 lb. (8.4 lb.)

CITRUS (California Recommendations)

(Grapefruit, Kumquats, Lemons, Limes, Tangerines, Tangerines)

California red scale, purple scale, yellow scale (1 1/2 lb. for purple scale) or 1/2 lb. spray oil per 100 gal. in a full coverage year, except during bloom.

Citricola and cottony-cushion scale per acre application or 1/4 lb. per 100 gal. during August to November; per 100 gal. during February to March and June applications.

Black scale. Use 1 lb. per 100 gal. during August to November.

Citrus thrips. Use 6 lb. per 100 gal. or 1 lb. per 100 gal. in a full coverage spray in late summer and early fall and prevent scarring of fruit.

Caution: Do not use treated citrus

Maximum Rate/Acre and Use Limitations
16 lb. — 14 days of harvest:
Over 16 to 40 lb. — 30 days of harvest

FILBERTS

Apple mealybug, bud moth, filbert, 1 lb. Do not apply after hulls begin to open.

GRAPES

California Recommendations

Grape mealybug. Apply 2 lb. per 100 gal. spray per acre in late June or early July.

Areas Other Than California

Aphids (grapevine), berry moth, grape beetle, leaf folder, grape leafhopper, leaf roller, two-spotted mite. Use 2 lb. per 100 gal.

Maximum Rate/acre Use Limitations
6 lb. 14 days of harvest
Over 6 lb. to 10 lb. Apply only if buckshot

NECTARINES, PEACHES

DORMANT SPRAY

Overwintering aphid and mite eggs, scale insects. Use 2 lb. per 100 gal. plus coverage spray. (20 lb.)

SEASONAL SPRAYS

Cat-facing insects, Oriental fruit moth (Make applications during appearance to late summer. Apply 2 or 3 sprays; scaffold limbs timed with moth flight), plum curculio (peaches), thrips 1 lb. San Jose scale. Use 2 lb.

Cottony-peach scale, fruit tree leaf lecanium scale (California only, if hatched). Shot-hole borer, spider scale insect control make full coverage

Use Limitations

California — Do not apply within 2 weeks of harvest. Do not apply more than once after bloom. 10 lb. per acre per application acre between January 1st and

Areas Other Than California — Do not apply more than once after bloom.

DIRECTIONS FOR USE

To be used only by trained personnel using approved protective equipment.

Aircraft or conventional ground equipment can be used, except as specified, in either high volume or concentrate spraying provided local experience has given good results and no plant injury. For concentrate spraying, calculate the amount of chemical needed to treat an acre, rather than as rate per 100 gal. of water. Measure specified quantity of this product, then wash through filter screen into partly filled spray tank with agitator running. Add balance of water and keep agitator running during mixing, filling, hauling and application operations. Do not allow mixture to stand without agitation. Do not combine with strongly alkaline materials. Do not combine with emulsifiable concentrate liquids unless previous experience has proven physically compatible and safe to plants. Emulsifiable liquids should ALWAYS BE THOROUGHLY emulsified with at least half of total water before adding this product.

SUGGESTED WATER RATES FOR AIRCRAFT AND GROUND EQUIPMENT

The actual rate required to provide thorough coverage varies with type of equipment used and variable size of trees, trees per acre, also plant growth at time of application. Except as specified for certain uses, the following rates are, therefore, intended to cover a broad range of conditions.

Crop	Gal. Water/Acre	
	Aircraft	Ground
Vegetable & Field Crops	5-20	20- 125
Orchard, Grapes	10-40	—
Orchard Crops (see exceptions below)	—	300- 800
Citrus	—	500-3000
Grapes	—	100- 200

Maximum permissible rate per acre, expressed as Parathion 25-WP is given in parenthesis, (), after each crop claim.

Maximum permissible rates per acre and corresponding limitations are listed as a ready reference of legal limits for occasions when rates higher than those recommended are necessary to control unusual infestations. Consult State Agricultural Experiment Stations or Cooperative State Extension Services for additional information as the timing and number of applications may vary with local conditions.

IMPORTANT:

Regardless of the type of equipment used and the volume of water required to make full coverage sprays for tree fruit and nut crops, or to make uniform applications on vegetable and field crops, do not apply more than the maximum permissible rate per acre as specified for each crop claim.

RECOMMENDATIONS FRUIT AND NUT CROPS

Before reading the following crop claims, rates and restrictions, first read the labeling section entitled Directions For Use.

In Northern Calif. do not apply to APRICOTS by aircraft or concentrate sprayers. Do not use on APPLES & PEARS when foliage is wet and under slow drying conditions, especially when concentrate sprays are used.

Unless otherwise specified, rates are given in terms of Parathion 25-WP per 100 gal. water for thorough coverage applications; full coverage sprays for scale control. Repeat as necessary. For codling moth, oriental fruit moth and plum curculio control, apply at petal fall and every 10 to 14 days thereafter until control is achieved.

The term "dormant oil," as used in dormant spray recommendations, requires the use of a type and quantity suitable for the specific tree crop, as specified by the oil manufacturer.

ALMONDS

Dormant Spray: Mite eggs, peach twig borer, scale insects (parlatoria, peach, San Jose). Use 2 lb. per 100 gal. water plus a dormant oil. Make full coverage spray. **CAUTION:** Oil sprays may injure trees. Apply only after winter rains have noticeably moistened bark. (24 lb.)

Petal Fall Spray (when bloom finished on all varieties): Fruit tree leaf roller, Oriental fruit moth, tent caterpillar, peach twig borer. Use 2 lb. Make full coverage spray. **Caution:** Do not apply after hulls open. Do not feed treated hulls to livestock. (12 lb.)

APPLES

DORMANT SPRAYS

Overwintering aphid and mite eggs, scale insects. Use 2 lb. per 100 gal. of water plus a dormant oil. (24 lb.)

SEASONAL SPRAYS

Aphids (green apple, rosy apple, woolly apple), bud moth, codling moth, fruit tree leaf roller, mealybugs, mites (clover, European red, Pacific, Schoenii, two-spotted, Willamette), orange tortrix, plum curculio, red-banded leaf roller (1st, 2nd and 3rd broods), red hugh, scales (Forbes, San Jose, scurfy). Use 2 lb.

Caution: Injury to fruit and foliage may result from use of this material on Golden Delicious, Jonathan, McIntosh and related varieties. Consult Agricultural Extension Service. Do not apply within 14 days of harvest. (24 lb.)

APRICOTS (Do not apply by aircraft.)

DORMANT SPRAY

Overwintering mite eggs, peach twig borer, scale insects. Use 2 lb. per 100 gal. plus a dormant oil. Make full coverage spray. (14.4 lb.)

SEASONAL SPRAYS

Mealybug, mealy plum aphid. Use 1 lb.

Codling moth, fruit tree leaf roller, Oriental fruit moth, peach twig borer, scales (European fruit lecanium, San Jose), tortrix. Use 2 to 2 1/4 lb.

Bud moth, fruit tree leaf roller, mealybugs, mites (clover, European, Pacific, Schoenii, Willamette). Use 1 1/2 lb.

Caution: Do not apply until danger of bee poisoning has passed. Do not apply within 14 days of harvest. (14.4 lb.)

CHERRIES

DORMANT SPRAY

Overwintering aphid and mite eggs, scale insects. Use 2 lb. per 100 gal. plus a dormant oil. (8.4 lb.)

SEASONAL SPRAYS

Aphids (including black cherry aphid), cankerworm, cherry fruitworm, cherry slug, eye spotted bud moth, fruit flies (begin at fly emergence and repeat at 7-day intervals), fruit tree leaf roller (apply at petal fall or shuck split), mites, Oriental fruit moth (apply at shuck split and 10 to 12 days later), Pandemis moth, plum curculio (make 2 to 3 applications, 8 to 10 days apart, beginning at petal fall or shuck split), rose chafers, San Jose scale crawlers, sawflies, shot-hole borer, thrips, tortrix. Do not apply within 14 days of harvest. Use 1 lb. (8.4 lb.)

CITRUS (California Recommendations)

(Grapefruit, Kumquats, Lemons, Limes, Oranges, Tangerines, Tangerines)

California red scale, purple scale, yellow scale. Use 2 1/2 lb. (1 1/2 lb. for purple scale) or 1/2 lb. plus a recommended spray oil per 100 gal. in a full coverage spray anytime of year, except during bloom.

Citricola and cottony-cushion scales. Use 6 lb. per 100 gal. per acre application or 1/4 lb. per 100 gal. in a full coverage spray during August to November; increase rate to 1/2 lb. per 100 gal. during February to March and 1 lb. during May and June applications.

Black scale. Use 1 lb. per 100 gal. in a full coverage spray during August to November.

Citrus thrips. Use 6 lb. per 100 gal. per acre application or 1 lb. per 100 gal. in a full coverage spray at petal fall. Repeat in late summer and early fall to protect new growth and prevent scarring of fruit.

Caution: Do not use treated citrus peel for food purposes.

Maximum Rate/Acre and Use Limitations

16 lb. — 14 days of harvest.

Over 16 to 40 lb. — 30 days of harvest.

FILBER'S

Apple mealybug, bud moth, filbert aphid, spider mites. Use 1 lb. Do not apply after hulls begin to open. (12 lb.)

GRAPES

California Recommendations

Grape mealybug. Apply 2 lb. per 100 gal. water. Use 300 gal. spray per acre in late June or early July.

Areas Other Than California

Aphids (grapevine), berry moth, grape mealybug, Japanese Beetle, leaf folder, grape leafhopper, leaf roller, red-banded leaf roller, two-spotted mite. Use 1 to 2 lb.

Maximum Rate/acre

6 lb.

Over 6 lb. to 10 lb.

Use Limitations

14 days of harvest.

Apply only before fruit is the size of buckshot or after harvest.

NECTARINES, PEACHES

DORMANT SPRAY

Overwintering aphid and mite eggs, peach twig borer, scale insects. Use 2 lb. per 100 gal. plus a dormant oil. Make full coverage spray. (20 lb.)

SEASONAL SPRAYS

Cat-facing insects, Oriental fruit moth, peach tree borer (Make applications during appearance of the moths in early to late summer. Apply 2 or 3 sprays to trunk from ground to scaffold limbs timed with moth flight.), peach twig borer, plum curculio (peaches), thrips 1 lb. (on nectarines only), San Jose scale. Use 2 lb.

Cottony-peach scale, fruit tree leaf roller, green peach aphid, lecanium scale (California only. Apply after all eggs have hatched). Shot-hole borer, spider mites. Use 1 1/2-2 lb. For scale insect control make full coverage spray.

Use Limitations

California — Do not apply within 21 days of harvest. Do not apply more than once after bloom. Do not apply more than 10 lb. per acre per application or more than 20 lb. per acre between January 1st and harvest.

Areas Other Than California — Do not apply within 14 days of harvest. Do not apply more than 20 lb. per acre per year.

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 UNDER THE FEDERAL INSECTICIDE
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 FOR ECONOMIC POISON REGISTER-
 ED UNDER NO.

VEGETABLE AND FIELD CROPS
 (ALSO READ DIRECTIONS FOR USE)

OLIVES

DORMANT SPRAY

Black scale. Use 1 lb. per 100 gal. plus a dormant oil. Make full coverage spray. (44 lb.)

SEASONAL SPRAYS

Scales (parlatoria, oleander, black). Use 2 lb. with regular oil spray during June or July. Do not apply after Aug. 1. (44 lb.)

PECANS

Aphids. Use 1 to 1½ lb.

Mites, pecan nut casebearer, pecan leaf casebearer. Use 1½ lb.

Black and yellow pecan aphid, fall armyworm, twig girdlers. Use 4 lb.

Caution: Do not apply within 15 days of harvest or after shucks open. (21.6 lb.)

PEARS

DORMANT SPRAY

Overwintering aphid and mite eggs, pear psylla, scale insects (brown apricot, European fruit lecanium, San Jose). Use 2 lb. per 100 gal. water plus a dormant oil. Make full coverage spray. (7½ pt.)

SEASONAL SPRAYS

Codling moth, pear blister mite, woolly aphid. Use 1 lb. in pre-blossom spray.

Brown apricot scale (when eggs hatch), mealybug, fruit tree leaf rotter, pear psylla (pre-blossom or post-blossom sprays), spider mites, tentiform leafminer. (2 lb.)

Caution: Under some conditions injury may occur on Bosc pears in the Northeast. Do not apply within 14 days of harvest. (14.4 lb.)

PLUMS, PRUNES

Dormant Spray: Overwintering aphid and mite eggs, scale insects (black, brown apricot, European fruit lecanium, Parlatoria [olive], San Jose), peach twig borer. Use 2 lb. per 100 gal. water plus a dormant oil. Make full coverage spray. (16 lb.)

SEASONAL SPRAYS

Aphid (mealy plum), bud moth, codling moth, leafhopper, orange tortrix, scales (parlatoria and San Jose [crawler stage only]), spider mites, thrips (flower, pear), tussock moth. Use 1 lb.

Fruit tree leaf roller, peach twig borer, tent caterpillars. Use 2 lb.

CAUTION

Do not apply within 14 days of harvest. (16 lb.)

STRAWBERRIES

Southeast Region

Field crickets, flea beetles, flower thrips, leaf rollers, pame-ras. Use 1-2 lb. Spider mites. Use 1½ lb. Do not apply within 14 days of harvest. (4 lb.)

Other Areas

Aphids. Use 2-3½ lb. Do not apply within 14 days of harvest. (3½ lb.) Post-harvest control of root weevil. Use 4 lb. (4 lb.)

Unless otherwise indicated, dosages are given in pounds of this product per acre in sufficient water to provide thorough coverage. Begin applications when insects first appear and repeat at 7-10 day intervals as needed to maintain control, but observe use limitations given for specific crops.

Explanation: Armyworms -- recommendation applies for control up to 3rd instar stage.

BEANS

Aphids, armyworms, leafhopper, leaf miner, Mexican bean beetle, spider mites, stink bugs, whiteflies. Use 2 lb.

Maximum Rate/Acre	Limitation
2 lb.	7 days of harvest.
Over 2 lb. to 3½ lb.	15 days of harvest.

BEETS (Table)

Alfalfa looper, aphids, armyworms, blister beetles, flea beetle, leafhopper, leaf miner, webworm. Use 2-3½ lb. Do not apply within 15 days of harvest, or 21 days if tops are to be used for food or feed. (3½ lb.)

CABBAGE, CAULIFLOWER, BROCCOLI, BRUSSELS SPROUTS, KALE, MUSTARD, TURNIPS

Aphids, armyworms, cabbage looper, flea beetle, diamond-back moth larvae, imported cabbageworm, serpentine leaf miner, thrips. Use 2 lb.

Do not apply within 7 days of harvest on broccoli, Brussels sprouts, and cauliflower; 10 days on cabbage, kale, mustard and turnips. (2 lb.)

CARROTS

Aphids, leafhoppers. Use 2-4 lb. Do not apply within 15 days of harvest. Do not use treated carrot tops for food or feed. (4 lb.)

CELERY

Aphids, celery leaf miner, celeryworms, leafhoppers, serpentine leafminer, spider mites -- use 3-4 lb.

Max. Rate/Use Limitation

2 lb. -- 21 days of harvest.
 Over 2 lb. to 4 lb. -- 30 days of harvest.

CORN

Aphids, armyworms, budworm, corn earworm (Apply to silks as soon as they appear. Make 3 to 4 applications at 2-3 day intervals as infestations warrants. Repeat immediately after rain.), corn rootworm adults (make full coverage applications to foliage when adult beetles become numerous and repeat as necessary), European corn borer, spider mites, stink bugs. Use 2-4 lb. Do not apply within 12 days of picking or cutting.

CUCURBITS (Cucumbers, melons, squash)

Aphids, cucumber beetle, flea beetle, leafhopper, melon-worm, pickleworm, serpentine leaf miner, spider mites, squash bug, stink bugs, thrips. Use 2 lb. Do not apply before plants start to vine. Do not apply unless plants are dry. Do not apply within 15 days of harvest on cucumber and squash; 7 days of harvest on melons. (2 lb.)

EGGPLANT

Aphids, blister beetle, Colorado potato beetle, eggplant lace bug, flea beetle, leaf miner, spider mites, stink bugs, thrips, whiteflies. Use 2-3½ lb. Do not apply within 15 days of harvest. (3½ lb.)

HOPS

Hop aphid, spider mites. Use 3½ lb. Do not apply within 15 days of harvest. (3½ lb.)

LEGUMES, SMALL GRAINS (Alfalfa, clover, vetch, barley, oats, wheat)

For all areas except California and Nevada.

Aphids, armyworms, blister beetles, grasshoppers. Use 1 to 2 lb. Do not apply when legumes are in bloom. Birds and other wildlife in treated areas may be killed. Make no application within 15 days of cutting, forage use or harvesting of grains.

Maximum Rate/Acre

Alfalfa, vetch	3½ lb.
Barley, clover, oats, wheat	6 lb.

LETTUCE, ENDIVE

Alfalfa looper, aphids, armyworms, banded cucumber beetle, cabbage looper, imported cabbageworm, leafhopper, leaf miner, lygus bug, six-spotted leafhopper. Use 2 lb. Do not apply within 7 days of harvest on head lettuce; 21 days on endive, leaf and bibb lettuce. (2 lb.)

ONIONS

Aphids, leaf miner, thrips (repeat at weekly intervals as necessary), Petrobria mite, stink bugs. Use 2-3½ lb. Do not apply within 15 days of harvest. (3½ lb.)

Onion maggot. Use 2-3½ lb. in sufficient water to cover one acre when applied in furrow at planting time. (3½ lb.)

PEAS

Alfalfa looper, aphids, armyworms, celery looper, climbing cutworm, serpentine leaf miner, spider mites, stink bugs, thrips. Use 2 lb. Do not apply within 10 days of harvest. (2 lb.)

PEPPERS

Aphids, flea beetle, pepper maggot, serpentine leaf miner, thrips, Western potato flea beetle. Use 2-3½ lb. Do not apply within 15 days of harvest. (3½ lb.)

POTATOES, IRISH

Aphids (including green peach), armyworms, blister beetles, Colorado potato beetle, flea beetle, grasshoppers, leafhopper, plant bugs, potato psyllid, serpentine leaf miner, spider mites, stink bugs, thrips, vegetable weevil. Use 2-4 lb. Do not apply within 5 days of harvest. (4 lb.)

SPINACH

Aphids, leaf miner of harvest. (2 lb)

SUGAR BEET

Alfalfa looper, worm. Use 1½-2

Aphids, beetle, blister beetle, f

Do not apply wi

TOBACCO

Plant Beds

Aphids, flea beetle treat 100 sq. yd.

New Set Plants

Flea beetle -- 1 acre.

Vegetable weevil one acre.

Field Application

Aphids, suckfly acre.

Flea beetle. Use

Caution: Applicator. Do not days of cutting when cutting. Juices when cu

TOMATOES

Aphids, armyworm, spider mites, psyllid, whitefly Do not apply w

SOIL INSECTS

Garden symphy (red), carrots, cabbage, cauliflower, onions, peas, peppers (summer and broadcast soil 1 lb. per acre in top 4 to 6 inch 20 lb. per acre the insecticide

Caution: Keep for 48 hours. Do

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RODENTICIDE AND RODENTICIDE ACT
ECONOMIC POISON REGISTERED
UNDER NO.

VEGETABLE AND FIELD CROPS
(ALSO READ DIRECTIONS FOR USE)

Unless otherwise indicated, dosages are given in pounds of this product per acre in sufficient water to provide thorough coverage. Begin applications when insects first appear and repeat at 7-10 day intervals as needed to maintain control, but observe use limitations given for specific crops.

Explanation: Armyworms — recommendation applies for control up to 3rd instar stage.

BEANS

Aphids, armyworms, leafhopper, leaf miner, Mexican bean beetle, spider mites, stink bugs, whiteflies. Use 2 lb.

Maximum Rate/Acre	Limitation
2 lb.	7 days of harvest.
Over 2 lb. to 3 1/2 lb.	15 days of harvest.

BEETS (Table)

Alfalfa looper, aphids, armyworms, blister beetles, flea beetle, leafhopper, leaf miner, webworm. Use 2-3 1/2 lb. Do not apply within 15 days of harvest, or 21 days if tops are to be used for food or feed. (3 1/2 lb.)

CABBAGE, CAULIFLOWER, BROCCOLI, BRUSSELS SPROUTS, KALE, MUSTARD, TURNIPS

Aphids, armyworms, cabbage looper, flea beetle, diamond-back moth larvae, imported cabbageworm, serpentine leaf miner, thrips. Use 2 lb.

Do not apply within 7 days of harvest on broccoli, Brussels sprouts, and cauliflower; 10 days on cabbage, kale, mustard and turnips. (2 lb.)

CARROTS

Aphids, leafhoppers. Use 2-4 lb. Do not apply within 15 days of harvest. Do not use treated carrot tops for food or feed. (4 lb.)

CELERY

Aphids, celery leaf tier, celeryworms, leafhoppers, serpentine leafminer, spider mites — use 3-4 lb.

Max. Rate/Use Limitation
2 lb. — 21 days of harvest.
Over 2 lb. to 4 lb. — 30 days of harvest.

CORN

Aphids, armyworms, budworm, corn earworm (Apply to silks as soon as they appear. Make 3 to 4 applications at 2-3 day intervals as infestations warrants. Repeat immediately after rain.), corn rootworm adults (make full coverage applications to foliage when adult beetles become numerous and repeat as necessary), European corn borer, spider mites, stink bugs. Use 2-4 lb. Do not apply within 12 days of picking or cutting for forage. (4 lb.)

CUCURBITS (Cucumbers, melons, squash)

Aphids, cucumber beetle, flea beetle, leafhopper, melonworm, pickleworm, serpentine leaf miner, spider mites, squash bug, stink bugs, thrips. Use 2 lb. Do not apply before plants start to vine. Do not apply unless plants are dry. Do not apply within 15 days of harvest on cucumber and squash; 7 days of harvest on melons. (2 lb.)

EGGPLANT

Aphids, blister beetle, Colorado potato beetle, eggplant lace bug, flea beetle, leaf miner, spider mites, stink bugs, thrips, whiteflies. Use 2-3 1/2 lb. Do not apply within 15 days of harvest. (3 1/2 lb.)

HOPS

Hop aphid, spider mites. Use 3 1/2 lb. Do not apply within 15 days of harvest. (3 1/2 lb.)

LEGUMES, SMALL GRAINS (Alfalfa, clover, vetch, barley, oats, wheat)

For all areas except California and Nevada.

Aphids, armyworms, blister beetles, grasshoppers. Use 1 to 2 lb. Do not apply when legumes are in bloom. Birds and other wildlife in treated areas may be killed. Make no application within 15 days of cutting, forage use or harvesting of grains.

Maximum Rate/Acre

Alfalfa, vetch	3 1/2 lb.
Barley, clover, oats, wheat	6 lb.

LETTUCE, ENDIVE

Alfalfa looper, aphids, armyworms, banded cucumber beetle, cabbage looper, imported cabbageworm, leafhopper, leaf miner, lygus bug, six-spotted leafhopper. Use 2 lb. Do not apply within 7 days of harvest on head lettuce; 21 days on endive, leaf and bibb lettuce. (2 lb.)

ONIONS

Aphids, leaf miner, thrips (repeat at weekly intervals as necessary), Petrobia mite, stink bugs. Use 2-3 1/2 lb. Do not apply within 15 days of harvest. (3 1/2 lb.)

Onion maggot. Use 2-3 1/2 lb. in sufficient water to cover one acre when applied in furrow at planting time. (3 1/2 lb.)

PEAS

Alfalfa looper, aphids, armyworms, celery looper, climbing cutworm, serpentine leaf miner, spider mites, stink bugs, thrips. Use 2 lb. Do not apply within 10 days of harvest. (2 lb.)

PEPPERS

Aphids, flea beetle, pepper maggot, serpentine leaf miner, thrips, Western potato flea beetle. Use 2-3 1/2 lb. Do not apply within 15 days of harvest. (3 1/2 lb.)

POTATOES, IRISH

Aphids (including green peach), armyworms, blister beetles, Colorado potato beetle, flea beetle, grasshoppers, leafhopper, plant bugs, potato psyllid, serpentine leaf miner, spider mites, stink bugs, thrips, vegetable weevil. Use 2-4 lb. Do not apply within 5 days of harvest. (4 lb.)

SPINACH

Aphids, leaf miners. Use 2 lb. Do not apply within 14 days of harvest. (2 lb.)

SUGAR BEETS

Alfalfa looper, armyworms, climbing cutworms, clover cutworm. Use 1 2/3-3 1/2 lb.

Aphids, beet leafhopper, beet leaf miner, beet webworm, blister beetle, flea beetle, mites. Use 2-3 1/2 lb.

Do not apply within 15 days of harvest. (3 1/2 lb.)

TOBACCO

Plant Beds

Aphids, flea beetle. Use 1 1/3 ounces in sufficient water to treat 100 sq. yd. of bed.

New Set Plants

Flea beetle — Use 1 to 2 lb. in sufficient water to treat one acre.

Vegetable weevil — Use 5 ounces in 50 gal. water to treat one acre.

Field Application (large plants)

Aphids, suckfly, splitworm, stink bugs. Use 1/2 to 1 lb. per acre.

Flea beetle. Use 1 to 2 lb. per acre.

Caution: Application should be made only by trained operator. Do not apply within 5 days of priming or within 15 days of cutting. Wear rubber gloves and protective clothing when cutting. DO NOT get skin or clothing wet with plant juices when cutting or priming. (2 lb.)

TOMATOES

Aphids, armyworms, flea beetle, grasshoppers, leafhopper, spider mites, serpentine leaf miner, stink bugs, tomato psyllid, whiteflies. Use 2-4 lb. Tomato pinworm—Use 4 lb. Do not apply within 10 days of harvest. (4 lb.)

SOIL INSECT CONTROL—Vegetables

Garden symphylans, wireworms: For artichokes, beans, beets (red), carrots, celery, cole crops (broccoli, Brussels sprouts, cabbage, cauliflower), corn, lettuce (head, leaf, bibb), melons, peas, peppers, potatoes, radishes, spinach, squash (summer and winter), turnips, tomatoes. Make preplant broadcast soil treatment. For wireworm control use 8 to 16 lb. per acre in sufficient water and mix insecticide into the top 4 to 6 inches of soil. For garden symphylan control use 20 lb. per acre as directed for wireworm control except mix the insecticide into the top 6 to 9 inches of soil.

Caution: Keep all persons and animals out of treated areas for 48 hours. Do not contaminate ponds or streams. (24 lb.)