# **Parathion 25 Wettable**

# **STOP • READ LABEL BEFORE USING!**

POISON

See Side Panels for Antidote & Precautions



#### ACTIVE INGREDIENT

TOTAL \*O,O-diethyl O-p-nitrophenyl thiophosphate 100% EPA Reg. No. 11656-62

#### NET WEIGHT 10 Ibs.

DANGER--POISON--PRECAUTIONS



CAN KILL YOU IF SWALLOWED

This product can kill you if swallowed even in small amounts: spray mist or dust may be fatal if swallowed.

#### CAN KILL YOU BY SKIN CONTACT

This product can kill you if touched by hands or spilled or splashed on skin, in eyes or on clothing (liquid goes through clothes).

#### CAN KILL YOU IF BREATHED

This product can kill you if vapors, spray mist or dust are breathed.

#### POISONOUS TO FISH AND WILDLIFE

This mixture is highly toxic to fish, birds and wildlife. Birds and other wildlife in treated areas may be killed. Birds feeding on treated areas may be killed. This product is highly toxic to bees exposed to direct treatment or to residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service. Keep out of lakes, streams and ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift of spray from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

Apply this product only as specified on this label.

# WESTERN FARM SERVICE INC.

2401 Crow Canyon Road San Ramon, California 94583

WFS 62--01 11-75





DO NOT BREATH

# **USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE EQUIPMENT AND CLOTHING**

- Wear water-proof pants, coat, hat, rubber boots or rubber overshoes. (1)
- Wear safety goggles. (2)
- Wear a pesticide respirator jointly approved by the Mining Enforcement and Safety Administra-(3) tion (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part 11.
- (4) Wear heavy duty, natural rubber gloves.

### **WORK SAFETY RULES**

Keep all unprotected persons and children away from treated area or where there is danger of drift. Do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. Call a doctor (physician), clinic or hospital--immediately. Explain that the victim has been exposed to parathion and describe his condition. After first aid is given (see First Aid Treatment Section) and if a doctor cannot come, take victim to clinic or hospital.

IMPORTANT! Before removing gloves, wash them with soap and water. Always wash hands, face and arms with soap and water before smoking, eating or drinking. AFTER WORK, take off all work clothes and shoes. Shower, using soap and water. Wear only clean clothes when leaving job. Do not wear contaminated clothing. Wash protective clothing and protective equipment with soap and water after each use. Respirator should be cleaned and filter replaced according to instructions included with respirator.

# **POISON SIGNS (Symptoms)**

Parathion is a very dangerous poison. It rapidly enters the body on contact with all skin surfaces and eyes. Clothing wet with this material must be removed immediately. Exposed persons must receive prompt medical treatment or they may die.

Some of the signs and symptoms of poisoning are: headache, nausea, vomiting, cramps, wer S, blurred vision, pin-point pupils, tightness in chest, labored breathing, nervousness, sweating, wa ាច of eyes, grooling or frothing of mouth and nose, muscle spasms and coma.

### **First Aid Treatment**

Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to parathion and describe his condition. If breathing has stopped, start artificial respiration immediately and maintain until doctor sees victim.

If swallowed and victim is awake (conscious) make him vomit quickly. Induce vomiting by sticking finger down throat or by giving soapy or strong salty water to drink. Repeat until vomit is clear. Never give anything by mouth to an unconscious person. Have victim lie down and keep quiet. See doctor immediately.

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. See doctor immediately.

# + Note to Physician +

Antidote----administer atropine sulfate in large doses. TWO to FOUR mg. intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear, 2-PAM chloride is also antidotal and may be administered in conjunction with atropine. DO NOT GIVE MORPHINE OR TRANQUILIZERS. Parathion is a strong cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of the poison may occur and fatal relapses have been reported "\*er initial improvement; VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FO LEAST 48 HOURS.

#### POST TREATED AREA

Consult your State Agricultural Extension Service or Experiment Station regarding posting treated areas.

CONTAINER DISPOSAL

**KEEP PESTICIDE IN ORIGINAL CONTAINER.** 

COMPLETELY EMPTY CONTAINER. DISPOSE OF WASTE PESTICIDE AND CONTAINER BY BURYING. DO NOT BURN. NEVER RE-USE.

CROP USE DIRECTIONS

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Use only according to attached label booklet instructions.

Armyworms, climbing cutworms, serpentine leafminers, thrips-2 lbs. per acre. Do not apply within 10 days of harvest. Do not apply within 15 days of hervest if forage is to be used for food or feed.

PEPPERS: Flee beetles-1-1/2 to 2 lbs. per acre. Serpentine leafminers-1 to 1-3/4 lbs. per acre. Aphids, pepper maggots, thrips-1 to 2 lbs. per acre. Do not apply within 15 days of harvest.

POTATOES: Colorado potato beetle, fies beetles, leefhoppers, serpentine leafminers, whiteflies-4/5 to 2 lbs. per acre. Grasshoppers-4/5 to 1 lb, per acre. Thrips-1-4/5 lbs. per acre. Aphids, armyworms-1 to 2 tos, per acre. Two-spotted spider mites-2lbs, per acre. Do not apply within 5 days of harvest.

SPINACH: Aphids, leafminers-1 to 2lbs, per acre. Do not apply within 14 days of harvest.

SQUASH: Aphids, cucumber bestles (including spotted cucumber beetle, striped cucumber beetle), leefminers (including serpentine leefminers), melonworms, pickleworms-3/5 to 2 lbs. per acre. Thrips-1 to 2 lbs. per acre. Spider mites (including two-spotted spider mites)-1-1/2 to 2 lbs. per acre. Cutworms (including climbing cutworms), darkling ground bestles, flee bestles, leefhoppers, squash trugs-2 lbs. per acre. Do not apply within 15 days of hervest.

TOMATOES: Thrips-1 to 1-4/5 lbs. per acre. Aphids, Colorado poteto beetles, flee beetles, lesfhoppers, whiteflies-1 to 2lbs. per acre. Grasshoppers-1 lb, per acre. Armyworms, cabbage looper-2 lbs. per acre. Stink bugs-1 to 3 lbs. per acre. Spider mites, tomato fruitworm-2 to 3 lbs. per acre. Tomato pinworms-3 to 4 lbs. per acre. Hornworms-1-1/2 to 1-3/5 lbs, per acra. Do not apply within 10 days of harvest.

TURNIPS: Aphids, thrips-3/5 to 2 lbs. per acre. Armyworms, diamondback moths, false chinch bugs, harlequin bugs-1 to 2 lbs. per acre. Imported cabbegeworms-1-1-3 to 2 lbs. per acre. Climbing cutworms, vegetable weevils, cabbage webworms-1-3/4 lbs. per acre. Fies beetles, serpentine leafminers, cabbage loopers-2 lbs. per acre. Do not apply

in 7 days of hervest for doesges up to 11b. per acre; 10 days for i 2 Hbs.

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NOTICE OF WARANTY WESTERN FARM SERVICE, INC. MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PURPOSE, OR OTHER-WISE, EXPRESS OR IMPLIED, concerning this product or its uses which extend beyond the use of the product under normal conditions in accord with the statements made on this label.

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Observe use limitations given on the label for specific crops. In order thet pesticide residues on food and forage crops will not exceed tolerance established by the Federal Food and Drug Administration 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. Consult your State Agricultural Experiment Station or Extension Service for additional information as the timing, number, and rate of applications needed will vary with local conditions.

Application should be made only by experienced personnel using approved selety equipment. Measure the specified amount of this product then wesh through filler screen in nearly filled spray tank or pre-mix in a bucket before pouring into spray tank. Add balance of water to fill tank. Keep agitator running during filling and spraying operations. Do not allow mixture to stand. Do not use in low volume gear-type spray equipment. Do not apply with hand equipment. Do not combine with emulsifiable liquids unless previous use of the mixture has proven physically compatible and safe to the plants.

Unless otherwise specified rates are given in terms of WFS PARA-THION 25 Wettable per 100 gallons of water for fruits and nuts. Make full coverage spray for scale insect control. For control of codling moth, apple maggot, oriental fruit moth, or plum curculio apply at metal fall and every 10 to 14 days thereafter until control is achieved. For shothele bore apply at or following petal fall. Repeat in late summer.

### **Fruits and Nuts**

Peach/twig barers, scale insects (dormant application only) - use 2 lbs. 115 4 per 100 gallons + 2-1/2 gallons dormant emulsive per 100 gallons. Apply as a full coverage spray. Do not feed treated hulls to livestock. APPLES: Codling moth, orange tortrix, plum curculio, scales (including forbes, San Jose, sourfy)-1 to 1-1/2 lbs. For scales, apply when crawlers are present. Consult State Agricultural Experiment Stations for mixing oil for additional scale control. Meelybugs -1 to 2 lbs. Apple red bugs, eyespotted bud moth, fruittree leafroller and mites (clover, pacific spider, schoene spider, Willamette) -3/5 to 1 lb. For eye-spotted bud moth apply during prebloom if control is not achieved by a regular spray program. Two-spotted spider mite -3/5 to 1-1/3 lbs. Aphids -3/5 to 1-1/2 lbs. Apply during pre-pink stage, pink stage, petal fall or when insects appear. Repeat at 10 to 14-day intervals or as needed. This product may injure the fruit and foliage of Golden Delicious, Johnathan and McIntosh apples, as well as related variaties such as Cortland, Kendall, Macoun and Melba. Do not apply within 14 days of harvest.

APRICOTS: Codling moth, oriental fruit moth, tortrix moths --1 to 2 lbs. Peach twig borer, two-spotted spider mites -2 lbs. Peach twig borer, two-spotted mites, mealybugs, European red mites, black scales, European fruit lecanium scale -2 lbs. For scales, two gallons of dorment oil may be added to the spray mixture. Then follow directions on oil label. Spider mites, fruittree leafrollers -3/5 to 1-1/2 lbs. Aphids (including mealy plum aphid), evespotted bud moths -3/4 to 1-1/2 lbs. Do not apply within 14 days of harvest. Do not apply until danger of bee poison has passed. CHERRIES: Spider mites (clover mites, Europeen red mites, two-spotted spider mites), black cherry aphid -1/2 to 1 lb. Leafrollers (fruittree leafrollers), orange tortrix moth, lecanium scale, oriental fruit moth, plum curculio -1 lb. For fruittree leefroller apply at petal fall or shuck split. Sen Jose suale -- 1 lb. Appl; aftur craw!s s emerge. Shothole borer -3/4 to 1 lb, Fruit fries (cherry fruit fly, western cherry fruit fly)-

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# **Parathion 25** Wettable **Observe Following Use Precautions**

#### **Directions For Use**

#### Recommendations

ALMONDS: 1 Oriental fruit moth, tent caterpillar - 1-1/3 to 2 lbs.

1 to 1-1/3 lbs. Apply at petal fall and repeat at 10 to 14-day intervals beginning at shuck split or apply at fly emergence and repeat at 7 to 10-day intervals. For additional control apply during posthervest period. Treat interplanted trees, and following harvest, treat all unpicked fruit and pollinizers. Repeat immediately after every rain. Everpotted bud moth, cherry fruitworm -1 to 1-1/3 lbs. Scales -2 lbs. (dormant application only). Combine 2-1/2 to 3 gallons of dormant oil with spray mixture. Do not apply within 14 days of harvest.

CITRUS: Meelybugs, orange tortrix -1 to 1-1/3 lbs. Do not apply within 14 days of harvest.

CITRUS (California): California red scale, yellow scale -2/3 to 1-1/2 lbs. Black scale, purple scale -1-1/2 lbs. 1-1/2 to 1-3/4 gallons of light or light medium emulsive oil may be added to the spray mixture for control of the above insects. Citrus thrips -6 lbs. per acre. Apply at petal fall. Repeat in late summer and early fall to protect new growth and prevent scarring of fruit. Fruittree leafroller -4 Hos. per acre. Citricola -6 lbs. per acre. Cottonycushion scale -6 to 8 lbs. per acre. For citricols and cottonycushion scale apply in a full coverage spray. Apply lowest dosage in August to November, intermediate dosage in February and March and lightest dosage in May and June. Do not apply within 14 days of harvest. Avoid use of citrus peel for food purposes.

FIGS: Spider mites (including Pacific spider mite and two-spotted spider mite) -1 to 2 lbs. Fig scale -2 lbs. Apply when insects appear and repeat as needed or apply during last of May or first of June. For heavy infestations, oil may be added to the spray mixture. Then follow directions on oil lobel. Do not apply within 30 days of hervest.

GRAPES: Meelybugs -4 lbs per acre. False chinch bug, leafhoppers --2 lbs. Redbanded leafroller -4 lbs. Mites (including spider mites, twospotted spider mites) -2 to 4 lbs. Grape meelybug -2 lbs. Combine 2 gallons of dormant oil emulsion with spray mixture and apply during dormant period or before fruit is the size of buckshot or after harvest. Do not apply within 14 days of harvest. In California workers are not to enter treated areas for any activity requiring substantial contact with treated foliage for 21 days after being applied.

NECTARINES: Mites -1 lb. Aphids -3/4 to 2 lbs. Cottony peech scale -1 to 1-2/3 lbs. Leafrollers (including fruittree leafroller and redbanded leafroller), oriental fruit moth, thrips -1 to 2 lbs. For thrips apply from 25% bloom through petal fall at 5 to 6-day intervals. Plum curculio -1 to 1-1/3 lbs. Scales -1 to 1-1/2 lbs. The higher dosages may be combined with 2-1/2 to 3 gallons of dormant oil. Then follow directions on the oil label. Cottonycushion scale (crawlers) -1-1/3 to 1-1/2 lbs. San Jose scale, olive scale (perlatoria) -1-1/2 to 2 lbs. For the abovy scales, consult State Agricultural Experiment Stations for inforrnation on the addition of oil for better scale control. European bud moth, pandemis moth, peach twig borer, stink bugs and ternished plant buas -2 lbs. Do not apply within 14 days of harvest. Do not apply more than 5.0 lbs. actual parathion per year. In California do not apply within 21 days of harvest. Do not apply more than 5.0 lbs, actual parathion per acre between January 1st and harvest. Workers are not to enter treated area to engage in substantial contact with the treated foliage for 21 days after application.

OLIVES: Black scale, oleander scale, olive scale(perlatoria)-1 to 2 lbs. Apply from postbloom stage to late June for oleander scale and parlatoria scale, and in late July for black scale. Combine 1-1/2 gallons of light medium summer oil emulsion with the spray mixture. Do not apply after August 1st.

PEARS: Note: Injury may occur to Bosc pears under certain conditions. Aphids (including apple aphid, rosy apple aphid, woolly aphids and woolly apple aphid), pear psylla -3/5 to 1 lb. For dormant applications add 2 to 2-1/2 gallons of dormant oil to the mixture and follow directions on the oil label. Mites (including clover mite, European red mite, spider mites, two-spotted spider mites)-3/4 to 1 lb. Green fruitworm, tentiform leafminers, brown mites, pearslag-1 lb. Leafrollers (including fruittree leafrollers and red-banded leafrollers)-1 to 1-1/3 ibs. Codling moth, mealybugs and pearleaf blister mites-1 to 1-1/3 lbs. For mealybugs apply during prebloom stage or when insects appear. Scales (European fruit, lecanium, forbes, San Jose)-1 to 1-1/3 lbs, Apply when crawlers are present. For dormant application, consult State Agricultural Experiment Stations for information on the addition of oil for better scale control. Or combine 2 to 2-1/2 gallons of dormant oil with lower dosage of mixture and follow directions on the oil label. Do not apply within 14 days of harvest.

PEACHES: Aphids-3/5 to 2 lbs. Thrips, mites, cat-facing insects-11b. For thrips apply at 25% bloom. Repeat at 5 to 6-day intervals through petal fall period. Leafrollers (including fruittree leafrollers, redbanded leafrollers)-1 to 1-1/3 lbs. Peachtree borers--1 to 1-1/3 lbs., during appearance of moths in early to late summer. Apply 2 or 3 sprays to trunk from ground to scaffold limbs timed with moth flight. Plum curculio-1 to 1-1/3 lbs. Oriental fruit moth-1 to 2 lbs. Scales-1-1/2 to 2 lbs. when crawlers are present. 2-1/2 to 3 gallons of dormant oil may be added to spray mixture. Then follow directions on oil label. San Jose scale, olive scale(partatoria)-1-1/2 to 2 lbs. For the above scales consult State Agliculturul Expariment Stations for information on the addition of oil to spray moture for hetter sume control. Cottonvoushion scale-1-1/3 its. Cotton, peach scale-1 to 1-2/3 lbs. Lesser peachtree borer -1-1/2 to 2 lbs. Apply 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. Evespotted bud moth, pandemis moth, peachtwig borg, stink burs, tarnist ed plat, thuas-2 lbs. Do not apply within 14 days of harvest. In California: Do not apply within 21 days of harvest. Workhrs are not to initer treefediartas to engage in substantial contact with the treated foliage for 21 days after application. PECANS: Aphids, mites-1-1/2 lbs. Do not apply within 15 days of hervest. Do not apply after husks open. Do not feed treated husks to livestock

PLUMS, PRUNES: Aphids (including mealy plum aphid), leafhoppers, mealybugs-1 lb. Evespotted bud moths, leafrollers (including fruittree leafroller, red-banded leafroller), mites (including European red mite, spider mite, two-spotted spider mite), peachtree borers, plum curculio. orange tortrix moths-1 to 1-1/3 lbs. For peach tree borers, 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. Codling moths, scales (including oleander scale, olive scale, San Jose scale)-1 to 2 lbs. For scales, apply when crawlers appear. Do not apply when temperature exceeds 90° F. If product is combined with oil, consult State Agricultural Experiment Stations, or combine higher dosage with 2-1/2 to 3 gallons dormant oil and follow directions on the oil label. Aphid eans (dormant application only)-2 lbs. Combine 2-1/2 to 3 gallons of dormant oil with the spray mixture and follow directions on the oil label. Peach twig borer-2 lbs. Do not apply when temperature exceeds 90° F. For dormant application see directions above for aphid eggs. Thrips (including flower thrips, pear thrips)-1-1/2 to 2 lbs. Do not apply within 14 days of harvest. BOYSENBERRIES: Aphids, mites-1 to 2 lbs, per acre. Do not apply within 15 days of harvest.

STRAWBERRIES: Lygus bugs, whiteflies-1-1/2 to 2 lbs. per acre. Aphids-2 to 3-1/5 lbs. per acre. Root weevils (including strawberry root weevil)-post-harvest-4 lbs. per acre. Do not apply within 14 days of harvest.

WALNUTS: Aphids (including walnut aphid) and spider mites-1/3 to 1 lb. Do not apply after husks open. Frosted scale-1 to 2 lbs. Apply during dormant period after defoliation is complete.

#### VEGETABLE AND FIELD CROPS

ALFALFA, CLOVER, VETCH, SMALL GRAINS (such as wheat, barley): Aphids (including yellow clover aphids), armyworms, bluster beetles, grasshoppers-1 to 2 lbs, per acre. Do not apply within 15 days of cutting for forage use or harvesting of grains. BEANS: Aphids, armyworms, potato leafhoppers, serpentine leafminers. leafrollers, Mexican bean beetles-1-1/2 to 2 lbs. per acre. Do not apply within 7 days of harvest.

BEETS: Aphids--3/5 to 2 lbs. per acre. Flee beetles--1-1/3 to 2 lbs. per acre. Blister beetles-2 lbs. per acre. Leafhoppers, leafminers, webworms-1 to 2 lbs. per acre. Do not apply within 15 days of harvest. If tops are to be used for food or feed do not apply within 21 days of harvest

CABBAGE, BROCCOLI, BRUSSELS SPROUTS: Thrips, aphids-3/5 to 2lbs, per acre. Armyworms, diamondback moths, imported cabbageworms 1 to 2lbs, per acre. Climbing cutworms, fleabeetles, serpentine leaf miners--2lbs. per acre. Vegetable weevils--1-1/3 to 2lbs. per acre. Cabbage loopers-2 to 4 lbs. per acre. For broccoli and brussels sprouts do not apply within 7 days of harvest for dosages up to 2lbs. per acre; 21 days for dosages of 2 to 4lbs, per acre. For cabbage do not apply within 7 days of harvest for dosages up to 1 lb. per acre; 10 days for 1 to 2 lbs.; 21 days for 2 to 4 lbs. CARROTS: Leafminers-1 to 1-1/2 lbs. per acre. Leafhoppers, vegetable weevils-1-1/2 to 2 lbs. per acre. For aster leafhoppers treat field margins also. Aphids, stink bugs-2 lbs, per acre. Do not use treated tops for food or feed. Do not apply within 15 days of harvest. CELERY: Aphids, celery leaftiers-1 to 2 lbs. per acre. Leafhopper ? to 3 lbs. per acre. Spider mites-1-2/3 to 3 lbs. per acre. Serpentine miners-3 lbs, per acre. Do not apply within 15 days of harvest for gosages up to 1 lb. per acre; 21 days for 1 to 2 lbs.; 30 days for 2 to 3 lbs. CORN: Fall armyworms-1 to 1-1/2 lbs. per acre. European corn borers-1-3/4 to 2 lbs. per acre. Apply when inserts appear, when 50% of exes are in "black head" stage, or after 20 egg masses are counted par 100 stalks and first eggs are in "black head" stage, or when 75% of the plants show "shot-hole" feeding. Repeat at 5 to 10 day intervals or as needed. Consult your State Agricultural Experiment Station for proper timing of treatments. Do not apply within 12 days of harvest. CUCUMBERS, MELONS: Aphids, cucumber beetles, serpentine leafminers, melonworms, pickleworms-3/5 to 2 lbs. per acre. (For pickleworms on cucumbers use minimum of 3/4 lbs.). Climbing cutworms, spider mites, squash vine borers, stink bugs, thrips-1 to 2 lbs, per acre. Darkling ground beetles, flea beetles, leafhoppers, squash bugs-2 lbs. per acre. Do not apply before vining. Do not apply within 15 days of harvest

EGGPLANT: Aphids, serpentine leafminers-1 to 2 lbs. per acre. thrips-1 to 1-1/2 lbs. per acre. Do not apply within 15 days of harvest KALE, MUSTARD GREENS: Aphids, thrips-3/5 to 2 lbs, per acre. Armyworms, diamondback moths, imported cabbageworms, vegetable weevils-1-1/3 to 2 lbs. per acre. Climbing cutworms, flea beetlos, serpentine leafminers, cabbage loopers-2 lbs. per acre. Do not apply within 7 days of harvest for dosages up to 1 lb. per acre; 10 days for 1 to 2 lbs.

LETTUCE: Aphids, leafhoppers – 1-4/5 to 2 lb. per acre. Armyworm, cabbage loopers-2 lbs, per acre. For head lettuce do not apply within 7 days of harvest. For bibb and leaf do not apply within 21 days of harvest

ONIONS: Thrips--1 to 2 lbs. per acre. Leafminers, onion maggot (larvae)-2 lbs. per acre. Apply in furrow at time of seeding. Do not apply within 15 days of harvest.

PEAS: Aphids (including pea aphids), pea weevils-1 to 2 lbs, per acre.