

POISONING BY INHALATION
 Symptoms: Irritation of the nose, throat, and lungs; coughing; shortness of breath; chest pain; and dizziness. (Do not inhale dusts or fumes.)

POISONING BY INGESTION
 Symptoms: Nausea, vomiting, diarrhea, and abdominal pain. (Do not eat, drink, or smoke while using this product.)

POISONING TO FISH AND WILDLIFE
 This product is toxic to fish, shrimp, crabs and other aquatic life. Do not apply in treated areas. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Shrimp and crabs may be killed at application rates recommended on this label. Do not apply where there are important fisheries. Do not apply where conditions favor drift from areas treated. Do not use to waste water by cleaning of equipment or disposal of waste.

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

Apply This Product Only As Specified On This Label

CONTAINER DISPOSAL

Do not reuse empty drum. Return to drum reconditioner or destroy by perforating or crushing and burying in a safe place.

REG. NO. 1526-436AA
 AEST. NO. 1526-AZ-1

PARATHION

BEFORE WEARING THE FOLLOWING PROTECTIVE EQUIPMENT AND CLOTHING

(1) Wear a pair of pants, coat, hat, rubber boots and other overshoes. (2) Wear gloves. (3) Wear mask or respirator. (4) See U.S. Bureau of Mines for parathion protection. (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, weakness, blurred vision, pin-point pupils, tightness in chest, labored breathing, nervousness, sweating, watering of eyes, drooling 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 after initial improvement. **VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.**

POST TREATED AREA

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

AL USARLO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

POISON
 Read This Label
 for Antidote &
 Precautions



FLAMMABLE MIXTURE KEEP AWAY FROM HEAT OR OPEN FLAME. NOT FOR HOME USE.

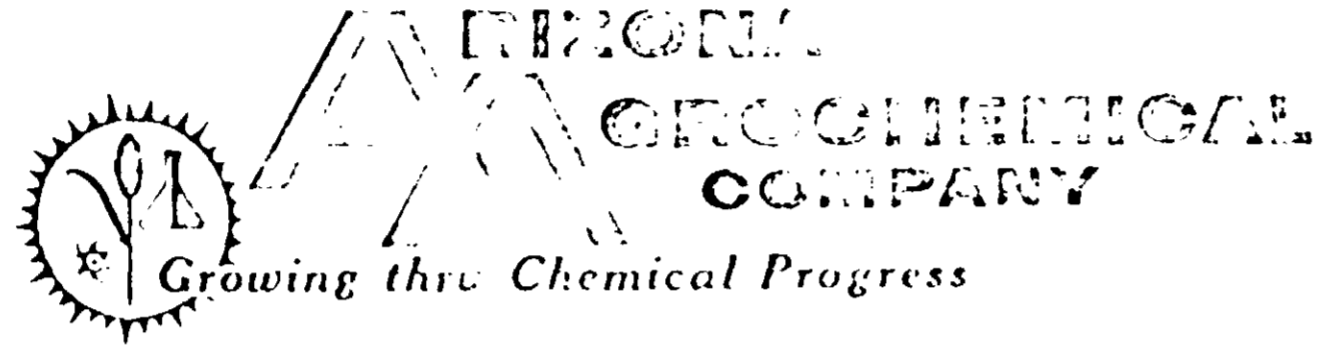
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STOP-READ LABEL BEFORE USING!

Agro-Chem Brand

CHEMICAL DISTRIBUTORS

DBA



P.O. BOX 21537 PHOENIX, ARIZ. 85036 PHONE 602 244-1311

PARATHION 4-E

EMULSIFIABLE

ACTIVE INGREDIENTS:

Parathion: O,O-diethyl O-p-nitrophenyl phosphorothioate	46.3%
Aromatic Petroleum Solvent	48.0%
INERT INGREDIENTS	5.7%
	100.0%

CONTAINS 4 LBS. PARATHION PER GALLON

TO PHYSICIAN
 administer atropine sulfate in
 10 to FOUR mg. intravenously
 as soon as cyanosis
 Repeat at 5 to 10 minute
 signs of atropinization ap-
 pearing. Atropine sulfate
 chloride is also antidotal and
 should be administered in conjunction with
 NOT GIVE MORPHINE OR
 Parathion is a
 cholinesterase inhibitor affecting
 the peripheral nervous systems
 cardiac and respiratory de-
 pressant. The first sign of pulmonary edema
 should be given supplemental
 oxygenated symptomatically. Con-
 sideration of the poison may occur
 24 hours have been reported after
 treatment. VERY CLOSE SUPER-
 VISE PATIENT IS INDICATED FOR
 24 HOURS.

TREATED AREA
 State Agricultural Service or
 Extension Station regarding posting

Do not use this product for any uses other than those
 listed on the label. No use este
 que la etiqueta le haya sido
 permitida.



DANGER
 Keep Out of
 Reach of
 Children

DO NOT USE.

Agro-Chem

ACCEPTED
 AUG 29 1978
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 as amended, this pesticide is
 registered for use as a
 EPA Reg. No. 1526-496

PARATHION

EMULSIFIABLE

Do not use this product for any uses other than those
 Per acre water usage in applying this product should
 otherwise designated in the directions for use. For
 a minimum of 10-50 gallons water. For aerial ap-
 of 3-10 gallons water.

DANGER

LABEL BEFORE USING!

Agro-Chem Brand

CHEMICAL DISTRIBUTORS

DBA

ARIZONA
AGRO-CHEMICAL
COMPANY

Through Chemical Progress

PHOENIX, ARIZ. 85036 PHONE 602 244-1311

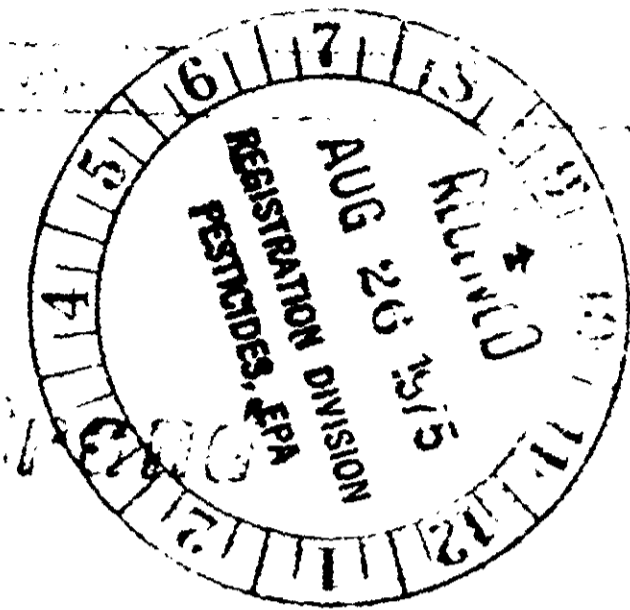
PARATHION 4-E
EMULSIFIABLE

CONTENTS:

Diethyl O-p-nitrophenyl	46.3%
Cell Solvent	48.0%
ITS	5.7%
	100.0%

4.5 LBS. PARATHION PER GALLON

Agro-Chem Distributors



ACCEPTED
 AUG 29 1978
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, registration of this pesticide
 EPA Reg. No. 1526-996

Agro-Chem Distributors
PARATHION 4-E
 EMULSIFIABLE

Do not use this product for any uses other than those specified on this label.
 Per acre water usage in applying this product should comply with the following unless otherwise designated in the directions for use: For ground application - dilute in a minimum of 10-30 gallons water; for aerial application - dilute in a minimum of 3-10 gallons water.

12/10/78

CROP	CROP PEST	DOSAGE RATE/ACRE	LIMITATIONS
Alfalfa	Spittlebugs	1/2 pint	Do not apply within 15 days before harvest. Do not spray during bloom to avoid injury to bees. In California and Nevada — Do not apply more than 3/4 pint of this product per acre.
	Alfalfa Weevil Larvae	1/2-1 pint	
	Alfalfa Caterpillars, Alfalfa Weevil Adults, Aphids, Armyworms, Blister Beetles, Clover Leaf Weevils, Crickets, Cutworms, Grasshoppers, Leafhoppers, Lygus Bugs, Thrips, Tortricid Moths, Webworms.	1/2-1 pint	
	Asiatic Garden Beetles, Green June Beetles, Spider Mites	1 pint	
	Alfalfa Seed Chalcids (Seed Crop Only), Beet Armyworms, Corn Earworms, Stink Bugs	1-1 1/2 pints	
Artichokes	Aphids, Artichoke Plume Moths	4/5-1 pint	Do not apply within 7 days before harvest.
Barley	Aphids, Armyworms, Blister Beetles, Grasshoppers, Winter Grain Mites	1/2-1 pint	Do not apply within 15 days before harvest.
	Thrips	1/2-4/5 pint	
	Black Grass Bugs, Cutworms, Leafhoppers, Spider Mites, Stink Bugs	1-1 1/2 pints	
	Say Stink Bugs	3/4 pint	
	Banks Grass Mites, Chinch Bugs, False Chinch Bugs	1 1/2 pints	
Beans	Bean Leaf Beetles	1/2 pint	Do not apply within 7 days before harvest when rates up to 1 pint per acre are used. Do not apply within 15 days before harvest when rates above 1 pint per acre are used.
	Thrips	1/2-3/4 pint	
	Lima Bean Pod Borers, Spider Mites	1/2-1 pint	
	Corn Earworms, Diabrotica Cucumber Beetles, Cabbage Loopers	1/2-1 1/2 pints	
	Aphids, Armyworms, Leafhoppers, Leafminers, Leafrollers, Mexican Bean Beetles	3/4-1 pint	
	Stink Bugs	3/5-1 1/2 pints	
	Lygus Bugs, Springtails, Whiteflies	1 pint	
Climbing Cutworms	1-1 1/2 pints		
Beets	Aphids	2/5-1 pint	Do not apply within 15 days before harvest. Do not apply within 21 days before harvest if tops are to be used for food or feed.
	Leafhoppers, Leafminers, Webworms	1/2-1 pint	
	Flea Beetles	3/5-1 pint	
	Armyworms	3/4-1 pint	
Blackberries	Spider Mites	2/5-3/4 pint	Do not apply within 15 days before harvest.
	Aphids	1/2 pint	
	Rednecked Cane Borers	3/4 pint	
	Obscure Weevils, Woods Weevils	1 quart applied to the soil and ground cover over the roots of canes during postharvest period.	
	Raspberry Crown Borers	1 quart. Apply only to crown area and lower canes.	
Black-Eyed Peas	Aphids, Leafminers, Bean Leafrollers, Stink Bugs	1 pint	Do not apply within 15 days before harvest.

CROP	CROP PEST	DOSAGE RATE/ACRE	LIMITATIONS
Blueberries	Blueberry Maggots, Cherry Fruitworms, Cranberry Fruitworms, Plum Curculio, Thrips, Blueberry Tipworms	1/2-1 pint	Do not apply within 14 days before harvest. For Plum Curculio apply at petal fall and every 10-14 days thereafter until control is achieved.
	Leafhoppers	3/5-1 pint	
	Lecanium Scales	1 pint	
	Blossom Weevils	3/5-1 pint	
Boysenberries	Spider Mites	2/5-3/4 pint	Do not apply within 15 days before harvest.
	Rednecked Cane Borers	3/4 pint	
	Aphids	1/2-1 pint	
	Obscure Weevils, Woods Weevils	1 quart applied to soil and ground cover over the roots of canes during the post-harvest period	
	Raspberry Crown Borers	1 quart applied to crown area and lower canes.	
Brussels Sprouts	Aphids, Thrips	3/5-1 pint	Do not apply within 7 days before harvest when rates up to 1 pint per acre are used. Do not apply within 21 days before harvest when rates above 1 pint per acre are used.
	Armyworms, Diamondback Moths, Imported Cabbageworms	1/2-1 pint	
	Vegetable Weevils	3/5-1 pint	
	Climbing Cutworms, Flea Beetles, Harlequin Bugs	1 pint	
	Cabbage Loopers	1-2 pints	
Broccoli	Aphids, Thrips	2/5-1 pint	Do not apply within 7 days before harvest when rates up to 1 pint per acre are used. Do not apply within 21 days before harvest when rates above 1 pint per acre are used.
	Armyworms, Diamondback Moths, Imported Cabbageworms, Leafhoppers, Spider Mites	1/2-1 pint	
	Vegetable Weevils	3/5-1 pint	
	Harlequin Bugs, Cucumber Beetles, Climbing Cutworms, Darkling Ground Beetles, Flea Beetles	1 pint	
	Cabbage Loopers	1-2 pints	
Cabbage	Aphids, Thrips	2/5-1 pint	Do not apply within 7 days before harvest when rates up to 1/2 pint per acre are used. Do not apply within 10 days before harvest when rates above 1/2 pint to 1 pint per acre are used. Do not apply within 21 days before harvest when rates above 1 pint per acre are used.
	Armyworms, Diamondback Moths, Imported Cabbageworms, Leafhoppers	1/2-1 pint	
	Spider Mites	1/2-3/4 pint	
	Vegetable Weevils	3/5-1 pint	
	Climbing Cutworms, Flea Beetles, Harlequin Bugs, Leafminers	1 pint	
Carrots	Cabbage Loopers	1-2 pints	Do not apply within 15 days before harvest. Do not use treated tops for food or feed.
	Spider Mites	3/5-4/5 pint	
	Leafhoppers, Vegetable Weevils	3/4-1 pint	
	Aphids, Carrot Rust Flies, Petrobria Mites, Stink Bugs	1 pint	
	Leafminers	1/2-3/4 pint	
	Flea Beetles	1 1/5 pints	

CROP	CROP PEST	DOSAGE RATE/ACRE
Cauliflower	Aphids, Thrips	2/5-1 pint
	Armyworms, Diamondback Moths, Imported Cabbageworms, Leafhoppers, Spider Mites	1/2-1 pint
	Vegetable Weevils	3/5-1 pint
	Climbing Cutworms, Flea Beetles, Harlequin Bugs, Leafminers	
	Cabbage Loopers	1-2 pints
Celery	Aphids, Celery Leafhoppers, Tarnished Plant Bugs	2/5-1 pint
	Thrips	1/2-3/4 pint
	Spider Mites	4/5-1-2/5 pints
	Vegetable Weevils	1/2-1 pint
	Climbing Cutworms	1 pint
	Leafhoppers	1-1 1/2 pints
	Flea Beetles	1-1 1/5 pints
	Leafminers, Whiteflies	1 1/2 pints
	Loopers	1-2 pints
Clover	Alfalfa Weevil Larvae	1 1/2-1 pint
	Spittlebugs	1/2 pint
	Alfalfa Caterpillars, Alfalfa Weevil Adults, Aphids, Armyworms, Blister Beetles, Clover Leaf Weevils, Crickets, Climbing Cutworms, Grasshoppers, Leafhoppers, Lygus Bugs, Thrips, Tortricid Moths, Webworms	1/2-1 pint. For Lygus Bugs on seed crop only, apply 1 1/2 pints.
	Asiatic Garden Beetles, Clover Head Weevils, Green June Beetles, Spider Mites, Sweetclover Weevils	1 pint
	Beet Armyworms, Black Grass Bugs, Corn Earworms, Petrobria Mites	1-1 1/2 pints
	Stink Bugs	1/2-1 1/2 pints
Collards	Aphids, Thrips, Leaf Miners	2/5-1 pint
	Diamondback Moths, Imported Cabbageworms, Armyworms	1/2-1 pint
	Vegetable Weevils	3/5-1 pint
	Cutworms, Harlequin Bugs, Leafhoppers, Cabbage Loopers, Seedcorn Maggots in tops	1 pint
Corn	Aphids, Sap Beetles	1 1/2-1/2 pint
	Corn Silkflies	1/2 pint
	Climbing Cutworms, Japanese Beetles	1 1/2 pint
	Armyworms, Fall Armyworms	1/2-3/4 pint
	Corn Earworms	1-1 1/2 pints applied when silks appear. May apply 3-4 applications at 2-3 day intervals as infestation warrants.
	Corn Rootworm Adults	1/2-1 pint
	Spider Mites, European Corn Borers, Stink Bugs	1 pint
	Grasshoppers	3/4-4/5 pint

DOSAGE RATE/ACRE	LIMITATIONS
1/2 pint	Do not apply within 14 days before harvest.
1 pint	For Plum Curculio apply at petal fall and every 10-14 days thereafter until control is achieved.
1 pint	
1/4 pint	Do not apply within 15 days before harvest.
1 pint	
1/2 pint	Part applied to soil and ground cover the roots of canes during the post-harvest period.
1/2 pint	Part applied to crown area and lower leaves.
1 pint	Do not apply within 7 days before harvest when rates up to 1 pint per acre are used. Do not apply within 21 days before harvest when rates above 1 pint per acre are used.
1 pint	
1 pint	
1 pint	
1 pint	Do not apply within 7 days before harvest when rates up to 1 pint per acre are used. Do not apply within 21 days before harvest when rates above 1 pint per acre are used.
1 pint	
1 pint	
1 pint	Do not apply within 7 days before harvest when rates up to 1/2 pint per acre are used. Do not apply within 10 days before harvest when rates above 1/2 pint to 1 pint per acre are used. Do not apply within 21 days before harvest when rates above 1 pint per acre are used.
1/4 pint	
1 pint	
1 pint	
1/4 pint	Do not apply within 15 days before harvest.
1 pint	Do not use treated tops for food or feed.
1 pint	
1/4 pint	
1/5 pints	

CROP	CROP PEST	DOSAGE RATE/ACRE	LIMITATIONS
Cauliflower	Aphids, Thrips	2/5-1 pint	Do not apply within 7 days before harvest when rates up to 1 pint per acre are used. Do not apply within 21 days before harvest when rates above 1 pint per acre are used.
	Armyworms, Diamondback Moths, Imported Cabbageworms, Leafhoppers, Spider Mites	1/2-1 pint	
	Vegetable Weevils	3/5-1 pint	
	Climbing Cutworms, Flea Beetles, Harlequin Bugs, Leafminers		
Celery	Cabbage Loopers	1-2 pints	Do not apply within 15 days before harvest when rates up to 1/2 pint per acre are used. Do not apply within 21 days before harvest when rates above 1/2 pint to 1 pint per acre are used. Do not apply within 30 days before harvest when rates above 1 pint per acre are used.
	Aphids, Celery Leaf-tiers, Tarnished Plant Bugs	2/5-1 pint	
	Thrips	1/2-3/4 pint	
	Spider Mites	4/5-1-2/5 pints	
	Vegetable Weevils	1/2-1 pint	
	Climbing Cutworms	1 pint	
	Leafhoppers	1-1 1/2 pints	
	Flea Beetles	1-1 1/5 pints	
	Leafminers, Whiteflies	1 1/2 pints	
	Loopers	1-2 pints	
Clover	Alfalfa Weevil Larvae	1/2-1 pint	Do not apply within 15 days before harvest. Do not apply during bloom to avoid injury to bees. In California and Nevada - Do not apply more than 1/4 pint of this product per acre.
	Spittlebugs	1/2 pint	
	Alfalfa Caterpillars, Alfalfa Weevil Adults, Aphids, Armyworms, Blister Beetles, Clover Leaf Weevils, Crickets, Climbing Cutworms, Grasshoppers, Leafhoppers, Lygus Bugs, Thrips, Tortricid Moths, Webworms	1/2-1 pint. For Lygus Bugs on seed crop only, apply 1 1/2 pints.	
	Asiatic Garden Beetles, Clover Head Weevils, Green June Beetles, Spider Mites, Sweetclover Weevils	1 pint	
	Beet Armyworms, Black Grass Bugs, Corn Earworms, Petrobia Mites	1-1 1/2 pints	
	Stink Bugs	1/2-1 1/2 pints	
Collards	Aphids, Thrips, Leaf Miners	2/5-1 pint	Do not apply within 7 days before harvest when rates up to 1/2 pint are used. Do not apply within 10 days before harvest when rates above 1 pint are used.
	Diamondback Moths, Imported Cabbageworms, Armyworms	1/2-1 pint	
	Vegetable Weevils	3/5-1 pint	
	Cutworms, Harlequin Bugs, Leafhoppers, Cabbage Loopers, Seedcorn Maggots in tops	1 pint	
Corn	Aphids, Sap Beetles	1/2-1 1/2 pint	Do not apply within 12 days before harvest.
	Corn Silkflies	1/2 pint	
	Climbing Cutworms, Japanese Beetles	1 1/2 pint	
	Armyworms, Fall Armyworms	1/2-3/4 pint	
	Corn Earworms	1-1 1/2 pints applied when silks appear. May apply 3-4 applications at 2-3 day intervals as infestation warrants.	
	Corn Rootworm Adults	1/2-1 pint	
	Spider Mites, European Corn Borers, Stink Bugs	1 pint	
	Grasshoppers	3/4-4/5 pint	
		Consult your State Agricultural Experiment Station for proper timing of treatments.	

CROP	CROP PEST	DOSAGE RATE/ACRE	LIMITATIONS
Cotton	1 Aphids	1/5-1 pint	2 Don't apply more than 2 or 3 times per season. 3 Apply when mites appear (leaves turn yellow or reddish brown). Repeat once or twice at 5-7 day intervals. Do not apply within 7 days before harvest. Workers entering treated fields within 24 hours after application should wear protective clothing.
	Cotton Leafworms	1/4-1 pint	
	Flea-hoppers, 3 Spider Mites, Thrips, Webworms	1/2-1 pint	
	Cabbage Loopers	3/4-1 pint	
	Armyworms up to 3rd Instar, Leafhoppers	1 pint	
	Beetweevils	1-1 1/2 pints	
	Cotton Leafperforators, False Chinch Bugs, Lygus Bugs, Saltmarsh Caterpillars, Stink Bugs	1-2 pints	
Cucumbers	Beetworms, Serpentine Leafminers	1 quart	Do not apply within 15 days before harvest. Do not apply before vining.
	Cucumber Beetles, Leafminers, Melonworms, Pickleworms, Stink Bugs, Squash Vine Borers, Thrips	2/5-1 pint	
	Aphids, Climbing Cutworms, Spider Mites	1/2-1 pint	
Currants	Armyworms, Flea Beetles, Leafhoppers, Squash Bugs, Whiteflies	1 pint	4 Apply when leaf buds open in the spring. 5 Apply prebloom when mites appear. Do not apply within 30 days before harvest.
	4 Aphids	1/4-2/5 pint	
	Currant Aphids, 5 Spider Mites Currant Borers	1/2-1 pint 1 3/4 pints	
Dewberries	6 Aphids	2/5-1 pint	6 Apply during prebloom or postharvest period. Do not apply within 15 days before harvest.
	Spider Mite	3/5-1 pint	
Eggplant	Aphids, Leafminers	2/5-1 pint	Do not apply within 15 days before harvest.
	Beetles	1/2 pint	
	Colorado Potato Beetles	3/4 pint	
	Blister Beetles, Flea Beetles, Thrips	1/2-3/4 pint	
	Leafhoppers	1/2-1 pint	
	Leaf Bugs, Spider Mites, Stink Bugs	3/4-1 pint	
	Whiteflies	1-1 1/2 pints	
Eggplant (Carrots)	Aphids, Leafhoppers, Alfalfa Loopers	1 pint	Do not apply within 21 days before harvest.
	Thrips	1/2-1 pint	
Grass (Forage)	Aphids, Leafminers, Brown Wheat Mites	1 pint	Do not apply within 15 days before harvest.
	Spittlebugs	1/2 pint	
	Crickets, Climbing Cutworms, Leafhoppers, Lygus Bugs, Thrips, Tortricid Moths, Armyworms	1-1 1/4 pints	
Gooseberries	Aphids, Armyworms, Beet Armyworms, Fall Armyworms, Corn Earworms, Grasshoppers	1/2-3/5 pints	Do not apply within 15 days before harvest. 7 Apply when leaf buds open in the spring.
	Spider Mites	1 pint	
	7 Currant Aphids	1/4-2/5 pint	
	Spider Mites	1/2-1 pint	
	Two-Spotted Spider Mites Currant Borers	3/5-1 pint 1 1/4 pints	

CROP	CROP PEST	DOSAGE RATE/ACRE
Hops	Aphids	1-1 1/4 pin
	Spider Mites	1 1/2 pints
Kale	Aphids, Thrips	1/3-1 pint
	Armyworms, Diamondback Moths, Flea Beetles, Imported Cabbageworms	1/2-1 pint
	Vegetable Weevils	3/5-1 pint
	Cutworms, Harlequin Bugs	1 pint
	Leafhoppers, Leafminers, Cabbage Loopers, Seedcorn Maggots in tops	1 pint
Kohlrabi	Aphids, Thrips	2 5/8-1 pint
	Armyworms, Diamondback Moths	1/2-1 pint
	Cutworms, Imported Cabbageworms, Vegetable Weevils	1 pint
Lettuce	Cabbage Loopers	1-2 pints
	Aphids, Armyworms, Banded Cucumber Beetles, Imported Cabbageworms, Leafhoppers, Lygus Bugs, 8 Webworms	1/2-1 pint
	Cucumber Beetles, Grasshoppers	3/5-1 pint
	Corn Earworms, Diamondback Moths, Flea Beetles, Harlequin Bugs, Leafminers, Saltmarsh Caterpillars, Thrips, Vegetable Weevils	1 pint
Loganberries	Aphids, Spider Mites	1/2-1 pint
	Two-Spotted Spider Mites	3/4 pint
	Crown Borers	1 quart applied to crown area and lower canes.
	Woods Weevils, Obscure Weevils	1 quart applied to soil and ground cover over roots of canes during postharvest period.
	Melons (Cantaloupes, Casabas, Crenshaws, Honeyballs, Honeydew Melons, Muskmelons, Persian Melons, Watermelons)	Aphids, Leafminers
Cucumber Beetles, Melonworms, Pickleworms, Squash Vine Borers, Stink Bugs		2 5/8-1 pint. Apply at first bloom and when insects appear for melonworms and pickleworms.
Climbing Cutworms, False Chinch Bugs, Spider Mites, Thrips		1/2-1 pint
Rindworms		3/5-1 pint
Armyworms, Darkling Ground Beetles, Flea Beetles, Leafhoppers, Squash Bugs		1 pint
Mustard Greens	Aphids, Thrips	1/3-1 pint
	Armyworms, Diamondback Moths, Flea Beetles, Imported Cabbageworms	1/2-1 pint
	Vegetable Weevils	3/5-1 pint
Oats	Cutworms, Harlequin Bugs, Leafhoppers, Leafminers, Seedcorn Maggots	1 pint
	Say Stink Bugs	1/4 pint
	Aphids, Armyworms, Blister Beetles, Grasshoppers, Winter Grain Mites	1/2-1 pint
	Thrips	1/2-4/5 pint

DOSAGE RATE/ACRE	LIMITATIONS
1/5-1 pint	<p>2 Don't apply more than 2 or 3 times per season.</p> <p>3 Apply when mites appear (leaves turn yellow or reddish brown). Repeat once or twice at 5-7 day intervals.</p> <p>Do not apply within 7 days before harvest. Workers entering treated fields within 24 hours after application should wear protective clothing.</p>
1/4-1 pint	
1/2-1 pint	
3/4-1 pint	
1 pint	
1-1 1/2 pints	
1-2 pints	
1 quart	
2/5-1 pint	
2/5-1 pint	
1/2-1 pint	<p>4 Apply when leaf buds open in the spring.</p> <p>5 Apply prebloom when mites appear. Do not apply within 30 days before harvest.</p> <p>6 Apply during prebloom or postharvest period.</p> <p>Do not apply within 15 days before harvest.</p>
1 pint	
1/4-2/5 pint	
1/2-1 pint	
1 3/5 pints	
2/5-1 pint	
3/5-1 pint	
2/5-1 pint	
1/2 pint	
3/4 pint	
1/2-3/4 pint	<p>Do not apply within 15 days before harvest.</p>
1/2-1 pint	
3/4-1 pint	
1-1 1/5 pint	
1 pint	
1/2-1 pint	
1 pint	
1/2 pint	
1-1 1/5 pints	
1/2-3/5 pints	
1 pint	<p>Do not apply within 21 days before harvest.</p>
1/4-2/5 pint	
1/2-1 pint	
3/5-1 pint	
1-1 1/5 pints	
1 1/5 pints	
1 1/5 pints	
1 1/5 pints	
1 1/5 pints	
1 1/5 pints	

CROP	CROP PEST	DOSAGE RATE/ACRE	LIMITATIONS
Hops	Aphids	1-1 1/5 pints	<p>Do not apply within 15 days before harvest.</p> <p>Do not apply within 7 days before harvest when rates up to 1/2 pint per acre are used. Do not apply within 10 days before harvest when rates above 1/2 pint per acre are used.</p> <p>Do not apply within 7 days before harvest when rates up to 1 3/5 pints per acre are used. Do not apply within 21 days before harvest when rates above 1 3/5 pints per acre are used.</p> <p>Do not apply to head lettuce within 7 days before harvest. Do not apply to leaf or bibb lettuce within 14 days before harvest when rates up to 1/2 pint per acre are used. Do not apply to leaf or bibb lettuce within 21 days before harvest when rates above 1/2 pint per acre are used.</p> <p>• For use on head lettuce only.</p> <p>Do not apply within 15 days before harvest.</p> <p>Do not apply within 7 days before harvest.</p>
	Spider Mites	1 1/5 pints	
Kale	Aphids, Thrips	1/2-1 pint	
	Armyworms, Diamondback Moths, Flea Beetles, Imported Cabbageworms	1/2-1 pint	
	Vegetable Weevils	3/5-1 pint	
	Cutworms, Harlequin Bugs	1 pint	
	Leafhoppers, Leafminers, Cabbage Loopers, Seedcorn Maggots in tops	1 pint	
	Aphids, Thrips	2 5/8-1 pint	
Kohlrabi	Armyworms, Diamondback Moths	1/2-1 pint	
	Cutworms, Imported Cabbageworms, Vegetable Weevils	1 pint	
	Cabbage Loopers	1-2 pints	
	Aphids, Armyworms, Banded Cucumber Beetles, Imported Cabbageworms, Leafhoppers, Lygus Bugs, & Webworms	1/2-1 pint	
Lettuce	Cucumber Beetles, Grasshoppers	3/5-1 pint	
	Corn Earworms, Diamondback Moths, Flea Beetles, Harlequin Bugs, Leafminers, Saltmarsh Caterpillars, Thrips, Vegetable Weevils	1 pint	
	Aphids, Spider Mites	1/2-1 pint	
	Two-Spotted Spider Mites	3/4 pint	
	Crown Borers	1 quart applied to crown area and lower canes.	
Loganberries	Woods Weevils, Obscure Weevils	1 quart applied to soil and ground cover over roots of canes during postharvest period.	
	Aphids, Leafminers	1/2-1 pint	
	Cucumber Beetles, Melonworms, Pickleworms, Squash Vine Borers, Stink Bugs	2/5-1 pint. Apply at first bloom and when insects appear for melonworms and pickleworms.	
Melons (Cantaloupes, Casabas, Crenshaws, Honeydew Melons, Honeydew Melons, Muskmelons, Persian Melons, Watermelons)	Climbing Cutworms, False Chinch Bugs, Spider Mites, Thrips	1/2-1 pint	
	Rindworms	3/5-1 pint	
	Armyworms, Darkling Ground Beetles, Flea Beetles, Leafhoppers, Squash Bugs	1 pint	
	Aphids, Thrips	1/3-1 pint	
	Armyworms, Diamondback Moths, Flea Beetles, Imported Cabbageworms	1/2-1 pint	
	Vegetable Weevils	3/5-1 pint	
Mustard Greens	Cutworms, Harlequin Bugs, Leafhoppers, Leafminers, Seedcorn Maggots	1 pint	
	Say Stink Bugs	3/4 pint	
	Aphids, Armyworms, Blister Beetles, Grasshoppers, Winter Grain Mites	1/2-1 pint	
Oats	Thrips	1/2-4/5 pint	

CROP	CROP PEST	DOSAGE RATE/ACRE	LIMITATIONS
Oats	Cutworms, Leafhoppers, Brown Wheat Mites, Stink Bugs	1-1½ pints	Do not apply within 15 days before harvest.
	False Chinch Bugs, Banks Grass Mites, Chinch Bugs	1½ pints	
Okra	Flea Beetles, Leafminers, Spider Mites	½-1 pint	Do not apply within 21 days before harvest.
	Aphids, Blister Beetles	1 pint	
	Stink Bugs	1-1½ pints	
Onions	Thrips	½-1 pint	Do not apply within 15 days before harvest.
	Onion Maggots Adults and Larvae	¾-1 pint	
	Aphids, Leafminers, Stink Bugs	1 pint	
	Brown Wheat Mites	1-1½ pints	
Pastures (Irrigated)	Mosquito Adults	1/5 pint	Do not apply to water drainage areas where runoff or flooding will contaminate ponds, lakes or streams. Keep out of tidal marshes and estuaries. Do not apply within 7 days before harvest.
Peanuts	Fall Armyworms, Lesser Cornstalk Borers, Rednecked Peanutworms	1 pint. For Lesser Cornstalk Borers, apply to base of plants and soil surfaces.	Do not apply within 15 days before harvest.
Peas (Peas and Pea Forage)	Aphids, Leafhoppers, Pea Weevils	½-1 pint	Do not apply within 10 days before harvest. If vines are to be used for forage, do not apply within 15 days before harvest.
	Pea Moths	¾-1 pint	
	Armyworms, Climbing Cutworms, Flea Beetles, Leafminers, Alfalfa Loopers, Celery Loopers, Lygus Bugs, Spider Mites, Stink Bugs, Thrips	1 pint	
Peppers	Pepper Maggots	½-½ pint	Do not apply within 15 days before harvest.
	Psyllids	½ pint	
	Thrips, Leafminers	2/5-1 pint	
	Aphids	½-1 pint	
	Flea Beetles	¾-1 pint	
	Leafhoppers	½-1½ pints	
	Western Potato Flea Beetles	1 pint	
	Corn Earworms	1-1½ pints	
	Mites	1-1½ pints	
Potatoes	Aphids, Armyworms, Blister Beetles, Colorado Potato Beetles, Climbing Cutworms, Flea Beetles, Grasshoppers, Leaf-footed Plant Bugs, Leafminers, Spider Mites, Thrips, Vegetable Weevils, Whiteflies	½-1 pint	Do not apply within 5 days before harvest.
	Potato Psyllids	½-2 pints	
	Banded Cucumber Beetles, Loopers, Stink Bugs	¾-1 pint	
	Tomato Russet Mites	1-2 pints	
Pumpkins	Aphids, Cucumber Beetles, Climbing Cutworms, Serpentine Leafminers, Melonworms, Pickleworms, Squash Bugs, Squash Vine Borers	½-1 pint. For Melonworms and Pickleworms apply at first bloom or when insects appear. Repeat at 5-7 day intervals or as needed.	Do not apply within 10 days before harvest.
	Stink Bugs	1 pint	
Radishes	Aphids, False Chinch Bugs, Harlequin Bugs	½-1 pint	Do not apply within 15 days before harvest.
	Diamondback Moths, Cabbage Loopers	1 pint	

CROP	CROP PEST	DOSAGE RATE/ACRE
Raspberries	Aphids, Spider Mites	½-1 pint
	Two-Spotted Spider Mites	¾-1 pint
	Raspberry Crown Borers	1 quart applied to crown area and lower canes.
	Obscure Weevils, Woods Weevils	1 quart applied to soil and ground cover over roots of canes during postharvest period.
Rice	Mosquito Adults	1/5 pint
	Rice Leafminers, Tadpole Shrimp	1/5 pint. Apply by aircraft in 5-10 gal. water at first sign of infestation after planting.
Rutabagas	Aphids	½-1 pint
	Armyworms, Diamondback Moths, Imported Cabbageworms	½-1 pint
	Climbing Cutworms, Cabbage Loopers, Vegetable Weevils	1-1½ pints
Safflower	Aphids, Grasshoppers, Lygus Bugs, Thrips	1 pint
Sorghum	Aphids	½-1 pint
	False Chinch Bugs, Grasshoppers	½-3/5 pint
	Corn Earworms, Sorghum Webworms	½-1½ pints
	Armyworms up to 3rd Instar	¾-1 pint
	Mites	½-2 pints
	Fall Armyworms	¾-1½ pints
	Chinch Bugs	1½ pints
	• Sorghum Midge	1-2 pints
	Aphids (Greenbugs)	1 quart
Soybeans	Webworms	½ pint
	Green Cloverworms, Two-spotted Spider Mites, Stink Bugs, Velvetbean Caterpillars	1 pint
	Fall Armyworms, Corn Earworms	1-1½ pints
Spinach	Aphids, Leafminers	2/5-1 pint
	Armyworms up to 3rd Instar	½-1 pint
	Flea Beetles, Harlequin bugs, Leafhoppers, Cabbage Loopers, Mites, Seedcorn Maggots in tops, Vegetable Weevils, Webworms	1 pint
Squash	Cucumber Beetles, Leafminers, Melonworms, Pickleworms, Squash Vine Borers, Stink Bugs, Thrips	2/5-1 pint
	Aphids, Cutworms, Spider Mites	½-1 pint
	Darkling Ground Beetles, Flea Beetles, Leafhoppers, Squash Bugs, Whiteflies	1 pint

RATE/ACRE	LIMITATIONS
	Do not apply within 15 days before harvest.
	Do not apply within 21 days before harvest.
	Do not apply within 15 days before harvest.
	Do not apply to water drainage areas where runoff or flooding will contaminate ponds, lakes or streams. Keep out of tidal marshes and estuaries. Do not apply within 7 days before harvest.
or Cornstalk Borers, apply to soil surfaces.	Do not apply within 15 days before harvest.
	Do not apply within 10 days before harvest. If vines are to be used for forage, do not apply within 15 days before harvest.
	Do not apply within 15 days before harvest.
	Do not apply within 5 days before harvest.
Melonworms and Pickleworms first bloom or when repeat at 5-7 day intervals.	Do not apply within 10 days before harvest.
	Do not apply within 15 days before harvest.

CROP	CROP PEST	DOSAGE RATE/ACRE	LIMITATIONS
Raspberries	Aphids, Spider Mites	1/2-1 pint	Do not apply within 15 days before harvest.
	Two-Spotted Spider Mites	3/4-1 pint	
	Raspberry Crown Borers	1 quart applied to crown area and lower canes.	
	Obscure Weevils, Woods Weevils	1 quart applied to soil and ground cover over roots of canes during postharvest period.	
Rice	Mosquito Adults	1/5 pint	Do not apply to water drainage areas where runoff or drainage will contaminate lakes, ponds or streams. Keep out of tidal marshes and estuaries. Do not apply within 1 day before harvest. Restrict spill from treated fields for 2 days following application. Do not apply within 14 days before application of 3,4'-dichloropropionanilide. Do not apply over canals or laterals. Do not apply within 1 day before harvest.
	Rice Leafminers, Tadpole Shrimp	1/5 pint. Apply by aircraft in 5-10 gal. water at first sign of infestation after planting.	
Rutabagas	Aphids	1/3-1 pint	Do not apply within 7 days before harvest.
	Armyworms, Diamondback Moths, Imported Cabbageworms	1/2-1 pint	
	Climbing Cutworms, Cabbage Loopers, Vegetable Weevils	1-1 1/2 pints	
Safflower	Aphids, Grasshoppers, Lygus Bugs, Thrips	1 pint	Do not apply after flowering.
Sorghum	Aphids	1/2-1 pint	Do not apply within 12 days before harvest. Leaf injury may occur to grain sorghum. Apply twice 3-5 days apart when approximately 90% of the heads have completely emerged from the boot, but apply later than blooming.
	False Chinch Bugs, Grasshoppers	1/2-3/5 pint	
	Corn Earworms, Sorghum Webworms	1/2-1 1/2 pints	
	Armyworms up to 3rd instar	3/4-1 pint	
	Mites	1/2-2 pints	
	Fall Armyworms	3/4-1 1/2 pints	
	Chinch Bugs	1 1/2 pints	
	Sorghum Midge	1-2 pints	
Soybeans	Aphids (Greenbugs)	1 quart	Do not apply within 20 days before harvest. Do not apply more than twice per growing season.
	Webworms	1/2 pint	
	Green Cloverworms, Two-spotted Spider Mites, Stink Bugs, Velvetbean Caterpillars	1 pint	
Spinach	Fall Armyworms, Corn Earworms	1-1 3/5 pints	Do not apply within 14 days before harvest.
	Aphids, Leafminers	2/5-1 pint	
	Armyworms up to 3rd instar	1/2-1 pint	
	Flea Beetles, Harlequin Bugs, Leafhoppers, Cabbage Loopers, Mites, Seedcorn Maggots in tops, Vegetable Weevils, Webworms	1 pint	
Squash	Cucumber Beetles, Leafminers, Melonworms, Pickleworms, Squash Vine Borers, Stink Bugs, Thrips	2/5-1 pint	Do not apply within 15 days before harvest.
	Aphids, Cutworms, Spider Mites	1/2-1 pint	
	Darkling Ground Beetles, Flea Beetles, Leafhoppers, Squash Bugs, Whiteflies	1 pint	

CROP	CROP PEST	DOSAGE RATE/ACRE	LIMITATIONS
Sweet Potatoes	Aphids, Leafhoppers, Spider Mites, Stink Bugs	1 pint	Do not apply within 15 days before harvest.
	Leafminers	1-1½ pints	
	Flea Beetles	1 quart	
Strawberries	Flea Beetles, Leafrollers, Pameas, Thrips	½-1 pint	Do not apply within 14 days before harvest.
	Aphids, Crickets, Leafhoppers, Lygus Bugs, Spider Mites, Whiteflies	½-1½ pints	
	Leaf Beetles, Strawberry Crown Borers, Weevils	¾ pint	
	Root Weevils	¾-1½ pints	
	Spittlebugs	1½ pints	
	Leafminers	3/5-1 ¾ pints	
Sugar Beets	Leafhoppers, Lygus Bugs	3/5-1 pint	Do not apply within 15 days before harvest.
	Beet Leafhoppers	¾ pint	
	Climbing Cutworms, Grasshoppers	1 pint	
	Aphids, Armyworms, Blister Beetles, Flea Beetles, Alfalfa Loopers, Mites, Stink Bugs, Webworms	1-1 ¾ pints	
	Beet Crown Borers, False Celery Leafliers	1½ pints	
Swiss Chard	Aphids, Leafminers, Crown Mites, Seedcorn Maggots in Crowns, Vegetable Weevils	1 pint	Do not apply within 21 days before harvest.
Tobacco	Aphids, Flea Beetles, Suckflies	½-1 pint	Do not apply within 5 days before priming. Do not apply within 15 days before harvest. Avoid contact with plant juices while priming or cutting. Workers entering treated fields within 24 hours after application should wear protective clothing.
Tomatoes	Aphids, Colorado Potato Beetles, Flea Beetles, Grasshoppers, Leaf-footed Bugs, Leafhoppers, Leafminers, Spider Mites, Stink Bugs, Thrips, Whiteflies	½-1 pint	Do not apply within 10 days before harvest.
	Rootworms	¾ pint	
	Tomato Psyllids	¾-1 pint	
	Banded Cucumber Beetles, Loopers, Mites, Tomato Russet Mites, Plant Bugs	1 pint	
	Armyworms, Two-spotted Spider Mites, Tomato Fruitworms, Vegetable Weevils	1-2 pints	
	Tomato Pinworms	1½-2 pints	
Turnips	Aphids, Armyworms, Cutworms, Diamondback Moths, False Chinch Bugs, Flea Beetles, Harlequin Bugs, Imported Cabbageworms, Thrips, Vegetable Weevils, Cabbage Webworms	½-1 pint	Do not apply within 7 days before harvest when rates up to ½ pint per acre are used. Do not apply within 10 days before harvest when rates above ½ pint per acre are used.
Vetch	Alfalfa Caterpillars	½-¾ pint	Do not apply within 15 days before harvest. Do not apply during bloom to avoid injury to bees. In California and Nevada — Do not apply more than ¾ pint of this product per acre.
	Alfalfa Weevil Adults and Larvae, Aphids, Armyworms, Blister Beetles, Clover Leaf Weevils, Crickets, Climbing Cutworms, Grasshoppers, Leafhoppers, Lygus Bugs, Thrips, Tortricid Moths, Webworms	½-1 pint	

CROP	CROP PEST	DOSAGE RATE/ACRE
Vetch	Spittlebugs, Three-Cornered Alfalfa-hoppers	½ pint
	Asiatic Garden Beetles, Green June Beetles, Spider Mites	1 pint. For Green June Beetles, Asiatic Garden Beetles, apply to soil surface
	Black Grass Bugs	1-1½ pints
Wheat	Aphids, Armyworms, Blister Beetles, Grasshoppers, Winter Grain Mites	½-1 pint
	Say Stink Bugs	¾ pint
	Thrips	½-4/5 pint
	Cutworms, Leafhoppers	1 pint
	Stink Bugs, Brown Wheat Mites, Black Grass Bugs	1-1½ pints
	Chinch Bugs, False Chinch Bugs, Banks Grass Mites	1½ pints
CROP	CROP PEST	DOSAGE RATE: USE
Almonds	Aphids, Spider Mites	½ pint/100 gal. water
	Fruittree Leafrollers	½-1 pint/100 gal. water
	Leafrollers, Oriental Fruit Moths, Tent Caterpillars	2/5-1 pint/100 gal. water. For Oriental Fruit Moths, apply at petal fall every 10-14 days thereafter.
	Peach Twig Borers, Scales	1 pint/100 gal. water. For dormant application for San Jose Scales, add 3 dormant oil emulsion or 2½ gal. dormant emulsive oil.
Avocados	Avocado Lace Bugs, Blossom Anomala, Citrus Root Weevils, Banded Cucumber Beetles, Grasshoppers, Little Fire Ants, Pyriform Scales, Greenhouse Thrips, Redbanded Thrips, Tortricid Moths, Webbingworms, Whiteflies	¾ pint/100 gal. water
	Avocado Leafhoppers, Mealybugs, Pumpkin Bugs, Dictyospermum Scales, Florida Red Scales, Florida Wax Scales	½ pint/100 gal. water
	Latania Scales	¾ pint/100 gal. water
Apples	Flea Weevils	¾ pint/100 gal. water
	Apple Red Bugs, (r) Eye-Spotted Bud Moths, Leafhoppers, Leafminers, European Red Mites, Two Spotted Spider Mites, Spider Mites	¾-1½ pint/100 gal. water
	Aphids	¾-2/3 pint/100 gal. water
	Grasshoppers	¾-¾ pint/100 gal. water
	Oriental Fruit Moths	2/5 pint/100 gal. water. Applied at petal fall and every 10-14 days thereafter until control is obtained.
	Bagworms, European Apple Sawflies, Japanese Beetles, Redbanded Leafrollers, Orange Tortrix, Plum Curculio, Shothole Borers, Scales, Codling Moths, Fruittree Leafrollers	½ pint/100 gal. water. For European Apple Sawflies, apply at petal fall. Redbanded Leafroller, apply at pink pre-pink stage and repeat as needed. For Plum Curculio and Codling Moths, apply at petal fall and repeat every 10-14 days thereafter until control is obtained. For Scales, apply when crawlers are present.

	DOSAGE RATE/ACRE	LIMITATIONS
	1 pint	Do not apply within 15 days before harvest.
	1-1/2 pints	
	1 quart	
Thrips	1/2-1 pint	Do not apply within 14 days before harvest.
	1/2-1 1/2 pints	
ers,	3/4 pint	
	3/4-1 1/2 pints	
	1 1/2 pints	
	3/5-1 3/5 pints	Do not apply within 15 days before harvest.
	3/5-1 pint	
	3/4 pint	
	1 pint	
	1-1 3/5 pints	
alfiers	1 1/2 pints	
	1 pint	Do not apply within 21 days before harvest.
	1/2-1 pint	Do not apply within 5 days before priming. Do not apply within 15 days before harvest. Avoid contact with plant juices while priming or cutting. Workers entering treated fields within 24 hours after application should wear protective clothing.
lea Bugs, Mites,	1/2-1 pint	Do not apply within 10 days before harvest.
	3/4 pint	
	3/4-1 pint	
Bugs	1 pint	
Mites, Mites,	1-2 pints	
	1 1/2-2 pints	
Bugs, Spotted Weevils,	1/2-1 pint	Do not apply within 7 days before harvest when rates up to 1/2 pint per acre are used. Do not apply within 10 days before harvest when rates above 1/2 pint per acre are used.
	1/2-3/4 pint	
hids,	1/2-1 pint	Do not apply within 15 days before harvest. Do not apply during bloom to avoid injury to bees. In California and Nevada — Do not apply more than 3/4 pint of this product per acre.
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CROP	CROP PEST	DOSAGE RATE/ACRE	LIMITATIONS
Vetch	Spittlebugs, Three-Cornered Alfalfa-hoppers	1/2 pint	
	Asiatic Garden Beetles, Green June Beetles, Spider Mites	1 pint	For Green June Beetles, Asiatic Garden Beetles, apply to soil surface.
	Black Grass Bugs	1-1 1/2 pints	
Wheat	Aphids, Armyworms, Blister Beetles, Grasshoppers, Winter Grain Mites	1/2-1 pint	Do not apply within 15 days before harvest.
	Say Stink Bugs	3/4 pint	
	Thrips	1/2-4/5 pint	
	Cutworms, Leafhoppers	1 pint	
	Stink Bugs, Brown Wheat Mites, Black Grass Bugs	1-1 1/2 pints	
	Chinch Bugs, False Chinch Bugs, Banks Grass Mites	1 1/2 pints	
CROP	CROP PEST	DOSAGE RATE: USE	LIMITATIONS
Almonds	Aphids, Spider Mites	1/2 pint/100 gal. water	Do not apply more than 2 3/5 quarts of this product per acre. Do not apply after hulls begin to open. Do not feed treated hulls to livestock.
	Fruittree Leafrollers	1/2-1 pint/100 gal. water	
	Leafrollers, Oriental Fruit Moths, Tent Caterpillars	2/3-1 pint/100 gal. water. For Oriental Fruit Moths, apply at petal fall and every 10-14 days thereafter.	
	Peach Twig Borers, Scales	1 pint/100 gal. water. For dormant application for San Jose Scales, add 3 gal. dormant oil emulsion or 2 1/2 gal. dormant emulsive oil.	
Avocados	Avocado Lace Bugs, Blossom Anomala, Citrus Root Weevils, Banded Cucumber Beetles, Grasshoppers, Little Fire Ants, Pyriform Scales, Greenhouse Thrips, Redbanded Thrips, Tortricid Moths, Webbingworms, (a) Whiteflies	3/8 pint/100 gal. water	Do not apply within 21 days before harvest. Do not apply within 2 1/2 quarts of this product per acre. (a) Note: For Whiteflies combine one gallon of emulsive oil with spray mixture.
	Avocado Leafhoppers, Mealybugs, Pumpkin Bugs, Dictyospermum Scales, Florida Red Scales, Florida Wax Scales	1/2 pint/100 gal. water	
	Latania Scales	3/4 pint/100 gal. water	
Apples	Flea Weevils	3/4 pint/100 gal. water	Do not apply within 14 days before harvest. Do not apply more than 1 1/2 gal. of this product per acre. This product may injure the fruit and foliage of apples. (a) Apply during prebloom if control is not achieved by a regular spray program.
	Apple Red Bugs, (a) Eye-Spotted Bud Moths, Leafhoppers, Leafminers, European Red Mites, Two-Spotted Spider Mites, Spider Mites	3/8-1/2 pint/100 gal. water	
	Aphids	3/8-2/3 pint/100 gal. water	
	Grasshoppers	3/8-3/4 pint/100 gal. water	
	Oriental Fruit Moths	2/5 pint/100 gal. water. Applied at petal fall and every 10-14 days thereafter until control is obtained.	
	Bagworms, European Apple Sawflies, Japanese Beetles, Redbanded Leafrollers, Orange Tortrix, Plum Curculio, Shothole Borers, Scales, Codling Moths, Fruittree Leafrollers	1/2 pint/100 gal. water. For European Apple Sawflies, apply at petal fall. For Redbanded Leafroller, apply at pink or pre-pink stage and repeat as needed. For Plum Curculio and Codling Moths, apply at petal fall and repeat every 10-14 days thereafter until control is obtained. For Scales, apply when crawlers are present.	

CROP	CROP PEST	DOSAGE RATE: USE	LIMITATIONS
Apples	Apple Leafhoppers, Oystershell Scales, Mealybugs	1-1 pint/100 gal. water	
	Codling Moths, Fruittree Leafrollers	For aerial application only, apply 2/5-3 pints/acre.	
	Apple Red Bugs, Eye-Spotted Bud Moths, Grasshoppers, Spider Mites, Redbanded Leafrollers	For aerial application only, apply 1 quart/acre.	(ii) Apply during prebloom if control is not achieved by a regular spray program.
	Mealybugs, European Red Mites, Two-Spotted Spider Mites, Orange Tortrix, Plum Curculio, Scales	For aerial application only apply 1 1/2 quarts/acre. For Plum Curculio, apply at petal fall and every 10-14 days thereafter until control is obtained.	
	Pandemis Moths	3-3.5 pint/100 gal. water	Do not apply within 14 days before harvest. Do not apply more than 3 3/5 quarts of this product per acre.
Apricots	Apples, Eye-Spotted Bud Moths, Fruittree Leafrollers, Spider Mites, Redbanded Leafrollers, Mealybugs	1/2 pint/100 gal. water	(ii) Apply during prebloom if control is not achieved by a regular spray program.
	Grasshoppers, Lesser Peach Tree Borers, Oriental Fruit Moths, Tortrix	1/2-4.5 pint/100 gal. water. For Lesser Peach Tree Borers, apply 2-3 applications to trunk from ground to scaffold limbs timed with moth flights. For Oriental Fruit Moths, apply at petal fall and every 10-14 days thereafter until control is obtained.	
	Codling Moths	1/2-1 pint/100 gal. water applied at petal fall and every 10-14 days thereafter until control is achieved.	
	Japanese Beetles, Leafrollers, Mites, Peach Tree Borers	3/4 pint/100 gal. water. For Peach Tree Borers, apply 2-3 applications to trunk from ground to scaffold limbs timed with moth flights.	
	Two-Spotted Spider Mites, Peach Twig Borers, Black Scales, European Fruit Lecanium	1 pint/100 gal. water	
	Libert Apples, Apple Mealybugs, Eye-Spotted Bud Moths, Spider Mites	1/2 pint/100 gal. water	Do not apply after hulls begin to open. Do not apply more than 2 1/2 quarts of this product per acre. Do not feed treated hulls to livestock. (ii) Apply during prebloom if control is not achieved by a regular spray program.
	Cherries	Cowbirds	2.5 pint/100 gal. water
Cherries	Apples, Spider Mites, Sawflies, Snothole Borers	2-1/2 pint/100 gal. water. For Snothole Borers, apply at or petal fall and repeat in late summer.	
	Leafrollers, Lesser Appleworms, Oriental Fruit Moths, Plum Curculio, Rose Chafer, Pearstegs, San Jose Scales, Scales, Lecanium Scales, Thrips, Tortrix Moths, Leafminers	1/2 pint/100 gal. water. For Fruittree Leafrollers, apply at petal fall or shuck split. For Oriental Fruit Moths and Plum Curculio apply at petal fall and every 10-14 days thereafter until control is achieved. For Scales apply when crawlers are present.	
	Cankerworms, Eye-Spotted Bud Moths, Fruit Flies, Cherry Fruitworms	1/2-2/3 pint/100 gal. water. For Fruit Flies, apply at petal fall and repeat at 10-14 day intervals beginning at shuck split.	(ii) Apply during prebloom if control is not achieved by a regular spray program.
	Japanese Beetles	3/4-1 pint/100 gal. water	

CROP	CROP PEST	DOSAGE RATE: USE
Cherries	Black Cherry Aphids, Clover Mite Eggs	1 pint/100 gal. water. For C. Use as a dormant application by combining 2 1/2-3 gal. of with spray mixture.
Figs	Spider Mites, Fig Scales	1-1 pint/100 gal. water 1 pint/100 gal. water
Citrus (Refer Also to Specific Citrus Crop)	Black Scales, *Soft Brown Scales, *California Red Scales, *Citricola Scales, Cottonycushion Scales, Purple Scales, Yellow Scales, Black Scales	2-3 pint/100 gal. water. Scales, rates below 1/2 pint/100 gal. water are restricted to California. For California Red Scales, Purple Scales, 1 1/2-2 gal. emulsive may be added to mixture.
	Aphids, Chaff Scales, Florida Red Scales, Purple Scales, Snow Scales, Tussock Moths	1/2-2/3 pint/100 gal. water. Use to areas other than California.
	Leafrollers, Mealybugs, Orange Tortrix	1/2-2/3 pint/100 gal. water
	Whiteflies	1/2-3/4 pint/100 gal. water. Use to areas other than California.
	Grasshoppers	1 pint/100 gal. water. Use to areas other than California.
	*Citricola Scales, Cottonycushion Scales	1/2, 1/4 or 1/2 pint/100 gal. restricted to California only. schedule, apply lowest dosage to November, intermediate February and March, and high in May and June.
	Leafrollers, Orange Tortrix	1-2 quarts/100 gal. water/acre
	**Citricola Scales	1 1/2 quarts/100 gal. water/acre
	**Cottonycushion Scales	1 1/2-2 quarts/100 gal. water/acre
	Red Scales, Yellow Scales, Thrips	1-2 1/2 gal. acre
Grapefruit, Oranges (Refer also to Citrus)	Single Brooded Black Scales, Red Scales	1/4 pint/100 gal. water. Use to California only. Combine with light medium or medium oil spray mixture. Apply only in the year recommended for oil.
	Citricola Scales	1/4 pint/100 gal. water. Use to California only. Apply once in or March.
	Purple Scales	1/4-2/3 pint/100 gal. water. Use to California only. 1 1/2-2 1/2 gal. or light medium oil emulsive added to the spray mixture.
	Single Brooded Black Scales	1/2 pint/100 gal. water. Use to California only.
	Black Scales, Citricola Scales, Cottonycushion Scales, Red Scales, Yellow Scales, California Red Scales	1/2-2/3 pint/100 gal. water. Use to California only. Apply at prevent fruit scattering.

CROP

CROP PEST

DOSAGE RATE: USE

LIMITATIONS

CROP	CROP PEST	DOSAGE RATE: USE	LIMITATIONS
	Florida Red Scales, Snow Scales	$\frac{3}{8}$ or $\frac{2}{3}$ pint/100 gal. water. Use restricted to areas other than California. Apply low dosage during the spring with melanose treatment or apply the high dosage between June and September.	
		$\frac{1}{2}$ pint/100 gal. water. Use restricted to California only.	
	Aphids, Plant Bugs, Orangedog, Citrus Scale, Citrus Scales, Glover Scales, Yellow Scales	$\frac{1}{2}$ - $\frac{2}{3}$ pint/100 gal. water. Use restricted to areas other than California.	
	Mealybugs	$\frac{1}{2}$ - $\frac{2}{3}$ pint/100 gal. water. Use restricted to areas other than California. Apply twice. Use low dosage for spring application with melanose and scale treatments, and high dosage between June and September.	
	Mealybugs	$\frac{1}{2}$ - $\frac{2}{3}$ pint/100 gal. water. Apply in late spring, throughout summer, and in early fall.	
	Florida Red Scales, Purple Scales, Snow Scales	$\frac{1}{2}$ - $\frac{2}{3}$ pint/100 gal. water. Use restricted to areas other than California. In Florida apply during the post-bloom period and in the summer from June through September.	
	Mites, Whiteflies	$\frac{1}{2}$ - $\frac{3}{4}$ pint/100 gal. water. Use restricted to areas other than California. Combine 1 gal. of emulsive oil concentrate with the spray mixture.	
	Grasshoppers, Tussock Moths	$\frac{1}{2}$ -1 pint/100 gal. water. Use restricted to areas other than California.	
	Black Scales	$\frac{1}{2}$ -1 pint/100 gal. water. In California, apply in late spring and from August through November.	
	Whiteflies	1 pint/100 gal. water. Use restricted to areas other than California.	
	Red Scales	1- $1\frac{1}{4}$ pints/100 gal. water	
	Citrus Thrips	1 pint/100 gal. water. Use restricted to California. Apply at petal fall and repeat in late summer or early fall to protect new growth and prevent fruit scarring.	
	Cutworms, Fuller Rose Beetles, Katydid, Omnivorous Leafrollers, Orangeworms, Pink Scavenger Caterpillars, Western Tussock Moths	1-2 quarts/100 gal. water/acre. Use restricted to California.	
	Leafrollers, Orange Tortrix	1-2 quarts/100 gal. water/acre	
	Citricola Scales	$1\frac{1}{2}$ quarts/100 gal. water/acre. Use restricted to California. For fall and early winter control only. Apply to tops of trees. Do not apply before September 10.	

CROP	CROP PEST	DOSAGE RATE: USE	LIMITATIONS
Grapefruit, Oranges (continued)	Cottonycushion Scales	1½-2 quarts/100 gal. water. Use restricted to California only. For fall and early winter control only. Apply to tops of trees. Do not apply before September 10.	Do not apply within 14 days before harvest when rates up to 1 gal. per acre are used. Do not apply within 30 days before harvest when rates above 1 gal. to 2½ gal. per acre are used. In California — The farm operator shall not permit workers to enter treated areas to engage in any activity requiring substantial contact with foliage within 21 days after application when rates of no more than 1 gal. per acre per year are used, nor within 30 days after application when rates above 1 gal. per acre but no more than 2½ gal. per acre per year are used, nor within 45 days after application when rates of more than 2 gal. per acre per application or more than 2½ gal. per acre per year are used.
	Citrus Thrips	1½-2 quarts/100 gal. water/acre. Use restricted to California only. Apply at petal fall. Repeat in late summer or early fall to protect new growth and prevent fruit scarring.	
	Tussock Moths	2 quarts/acre	
	Red Scales, Thrips, Yellow Scales	1-2½ gal./acre	
Kumquats (Refer Also to Citrus)	Purple Scales	¼-½ pint/100 gal. water. Use restricted to California only. 1½-1¾ gal. of light to light medium oil emulsion may be added to the spray mixture.	
	Black Scales, Citricola Scales, Cottonycushion Scales, Purple Scales, Yellow Scales	⅔-⅔ pint/100 gal. water. Use restricted to California only. Apply at petal fall to prevent fruit scattering.	
	California Red Scales	⅔-⅔ pint/100 gal. water. Use restricted to California only. Apply immediately after bloom or before fruit becomes infested. 1½-1¾ gal. of light to light medium oil emulsion may be added to the higher spray mixture.	
	Aphids, Orangedog, Plant Bugs, Cottonycushion Scales, Glover Scales, Yellow Scales	¼-⅔ pint/100 gal. water. Use restricted to areas other than California.	
	Mealybugs	½-⅔ pint/100 gal. water	
	Purple Scales	½-⅔ pint/100 gal. water. Use restricted to areas other than California. In Florida apply during the post-bloom period and during the summer in June through September.	
	Mites, Whiteflies	½-¾ pint/100 gal. water. Use restricted to areas other than California. Combine 1 gal. of emulsive oil with the spray mixture.	
	Black Scales	½-1 pint/100 gal. water. In California, apply from August through November.	
	Grasshoppers	1 pint/100 gal. water. Use restricted to areas other than California.	
	Cutworms, Fuller Rose Beetles, Katydid, Omnivorous Leafrollers, Orangeworms, Pink Scavenger Caterpillars, Western Tussock Moths	1-2 quarts/100 gal. water/acre. Use restricted to California only.	
	Fruittree Leafrollers, Orange Tortrix	1-2 quarts/100 gal. water/acre	
	Citrus Thrips	1½ quarts/acre. Use restricted to California only. Apply at petal fall and repeat in late summer and early fall to protect new growth and prevent fruit scarring.	

CROP	CROP PEST	DOSAGE RATE: USE	LIMITATIONS
Lemons (Refer Also to Citrus)	Citricola Scales	1/4 pint/100 gal. water. Use restricted to California only. Apply once in February or March.	Do not apply within 14 days before harvest when rates up to 1 gal. per acre are used. Do not apply within 30 days before harvest when rates of above 1 gal. up to 2 1/2 gal. per acre are used. In California — The farm operator shall not permit workers to enter treated areas to engage in any activity requiring substantial contact with foliage within 21 days after application when rates of no more than 1 gal. per acre per year are used, nor within 30 days after application when rates above 1 gal. per acre but no more than 2 1/2 gal. per acre per year are used, nor within 45 days after application when rates of more than 2 gal. per acre per application or more than 2 1/2 gal. per acre per year are used.
	Red Scales, Single Brooded Black Scales	1/4 pint/100 gal. water. Use restricted to California only. Combine 1 2/3 gal. of light medium or medium oil to spray mixture. Restrict applications to periods of the year recommended for oil sprays.	
	Purple Scales	1/4-2/3 pint/100 gal. water. Use restricted to California only. 1 1/2-1 3/4 gal. of light to light medium oil emulsion may be added to the spray mixture.	
	Single Brooded Black Scales	1/3 pint/100 gal. water. Use restricted to California only.	
	Black Scales, California Red Scales, Citricola Scales, Cottonycushion Scales	1/3-2/3 pint/100 gal. water. Use restricted to California only. Apply at petal fall to prevent fruit scattering.	
	Red Scales, Yellow Scales	1/3-2/3 pint/100 gal. water. Use restricted to California only.	
	Cottonycushion Scales, Florida Red Scales, Purple Scales, Snow Scales	3/8 or 2/3 pint/100 gal. water. Use restricted to areas other than California. Apply the low dosage during the spring with melonase treatment or apply the high dosage between June and September.	
	Aphids	1/2-2/3 pint/100 gal. water/acre. Use restricted to areas other than California.	
	Orangedog, Plant Bugs, Cottonycushion Scales, Glover Scales, Yellow Scales	1/2-2/3 pint/100 gal. water/acre. Use restricted to areas other than California.	
	Mealybugs	1/2-2/3 pint/100 gal. water. Use restricted to areas other than California. Use low dosage for spring application with melonase and scale treatments, and high dosage between June and September.	
	Mealybugs	1/2-2/3 pint/100 gal. water. Apply in late spring, throughout summer, and in early fall.	
	Florida Red Scales, Purple Scales, Snow Scales	1/2-2/3 pint/100 gal. water. Use restricted to areas other than California. In Florida apply during the post-bloom period and in the summer from June through September.	
	Thrips	1/2 pint/100 gal. water. Use restricted to California only.	
	Mites, Whiteflies	1/2-2/3 pint/100 gal. water. Use restricted to areas other than California. Combine 1 gal. of emulsive oil concentrate with the spray mixture.	
Grasshoppers, Tussock Moths	1/2-1 pint/100 gal. water. Use restricted to areas other than California.		
Black Scales	1/2-1 pint/100 gal. water. In California, apply in late spring and from August through November.		

CROP	CROP PEST	DOSAGE RATE: USE	LIMITATIONS
Lemons (Refer Also to Citrus) (continued)	Citrus Thrips	1 pint/100 gal. water. Use restricted to California only. Apply at petal fall. Repeat in late summer or early fall to protect new growth and prevent fruit scarring.	
	Whiteflies	1 pint/100 gal. water. Use restricted to areas other than California.	
	Cutworms, Fuller Rose Beetles, Katydid, Omnivorous Leafrollers, Orangeworms, Pink Scavenger Caterpillars, Western Tussock Moths	1-2 quarts/100 gal. water/acre. Use restricted to California only.	
	Leafrollers, Orange Tortrix	1-2 quarts/100 gal. water/acre.	
	Citricola Scales	1½ quarts/100 gal. water/acre. Use restricted to California only. For fall and early winter control only. Apply to tops of trees. Do not apply before September 10.	
	Cottonycushion Scales	1½-2 quarts/100 gal. water. Use restricted to California only. For fall and early winter control only. Apply to tops of trees. Do not apply before September 10.	
	Citrus Thrips	1½-2 quarts/100 gal. water/acre. Use restricted to California only. Apply at petal fall. Repeat in late summer or early fall to protect new growth and prevent fruit scarring.	
	Tussock Moths	2 quarts/acre. Use restricted to areas other than California.	
Limes (Refer Also to Citrus)	Red Scales, Yellow Scales, Thrips	1-2½ gal./acre.	
	Purple Scales	1½-2 pint/100 gal. water. Use restricted to California only. 1½-1¾ gallons of light to light medium oil emulsion may be added to the spray mixture. Apply at petal fall to prevent fruit scattering.	Do not apply within 14 days before harvest when rates up to 1 gal. per acre are used. Do not apply within 30 days before harvest when rates above 1 gal. up to 2½ gal. per acre are used. In California the farm operator shall not permit workers to enter treated areas to engage in any activity requiring substantial contact with foliage within 21 days after application when rates of no more than 1 gal. per acre per year are used, nor within 30 days after application when rates above 1 gal. per acre but no more than 2½ gal. per acre per year are used, nor within 45 days after application when rates of more than 2 gal. per acre per application or more than 2½ gal. per acre per year are used.
	Black Scales, Citricola Scales, Cottonycushion Scales, Yellow Scales	1½-2½ pint/100 gal. water. Use restricted to California only. Apply at petal fall to prevent fruit scattering.	
	California Red Scales	1½-1¼ pints/100 gal. water. Use restricted to California only. Apply at petal fall to prevent fruit scattering. Apply immediately after bloom or before fruit becomes infested.	
	Aphids, Orangedog, Plant Bugs, Cottonycushion Scales, Glover Scales, Yellow Scales	½-2/3 pint/100 gal. water. Use restricted to areas other than California.	
	Mealybugs	½-2/3 pint/100 gal. water.	
	Purple Scales	½-2/3 pint/100 gal. water. Use restricted to areas other than California. In Florida apply as a postbloom and as a summer application in June through September.	
	Black Scales	½-1 pint/100 gal. water. In California, apply from August through November.	

CROP	CROP PEST	DOSAGE RATE: USE	LIMITATIONS
Limes (Refer Also to Citrus) (continued)	Mites, Whiteflies	1/2-3/4 pint/100 gal. water. Use restricted to areas other than California. Combine 1 gal. of emulsive oil concentrate with the spray mixture.	
	Thrips	1/2 pint/100 gal. water. Use restricted to California only.	
	Grasshoppers	1 pint/100 gal. water. Use restricted to areas other than California.	
	Cutworms, Elder rose beetles, Katydid, Omnivorous leafhoppers, Orange worms, Pink Scurfeger, Caterpillars, Western Tansack Moths	1-2 quarts/100 gal. water/acre. Use restricted to California only.	
	Fruit-tree Leafrollers, Orange Tortrix	1-2 quarts/100 gal. water/acre.	
	Citrus Thrips	1 1/2 quarts/acre. Use restricted to California only. Apply at petal fall. Repeat in late summer or early fall to protect new growth and prevent fruit scarring.	
	Yellow Scales, Thrips	1-2 1/2 gal./acre.	
Mangoes	Thrips	1 pint/100 gal. water.	Do not apply within 21 days before harvest. Do not apply more than 3 quarts of this product per acre.
Nectarines	Aphids	1/2-1 pint/100 gal. water.	
	Eye-Spotted Bag Moths, Peach Bark Beetle, Cottony Peach Scales, Shot-hole Borers, Spider Mites, Tarnished Plant Bugs	1/2 pint/100 gal. water. For Peach Bark beetles, apply to foliage and trunk. For Shot-hole borers, apply at the peak of adult activity.	Areas other than California — Do not apply within 14 days before harvest when rates up to 1 gal. per acre are used. Do not apply more than 1 1/4 gal. of this product per acre per year. In California — Do not apply within 21 days before harvest when rates up to 2 1/2 days before harvest are used. Do not apply more than 1 1/4 gal. of this product per acre between January 1st and harvest. The farm operator shall not permit workers to enter treated areas to engage in any activity requiring substantial contact with foliage within 21 days after application.
	Plum Curculio	1/2-3/4 pint/100 gal. water applied at petal fall and every 10-14 days thereafter until control is achieved.	
	Scales	1/2-1 pint/100 gal. water.	
	Leafrollers, Oriental Fruit Moths, Peachtree Borers, Thrips, Galling Insects	1/2-1 pint/100 gal. water. For Oriental Fruit Moths, apply at petal fall and every 10-14 days thereafter until control is achieved. For Peachtree Borers, apply 2-3 sprays to trunk from ground to scaffold limbs timed with moth flights. For Thrips, apply from 25% bloom through petal fall at 5-6 day intervals.	
	American Plum Borers, Grasshoppers, Lesser Peachtree Borers, San Jose Scales, Olive Scales	1/2-1 pint/100 gal. water. For Peachtree Borers, apply 2-3 sprays in early to late summer to trunk from ground to scaffold limbs during appearance of moths.	
	Cottonyashen Scales, Crawlers	1/2-3/4 pint/100 gal. water.	
	Lecanium Scales	3/4 pint/100 gal. water. Apply after an eggs have hatched.	
	Peach Twig Borers	1 pint/100 gal. water.	
Orives	Black Scales, Oleander Scales, Olive Scales	1 pint/100 gal. water. Use with 1 gal. of light medium grade summer emulsive oil. Apply during postbloom stage.	Do not apply later than August 1st. Do not apply more than 1 1/4 gal. of this product per acre.
		1 1/4 pints/100 gal. water. Apply during prebloom or postbloom stage when insects appear.	

CROP	CROP PEST	DOSAGE RATE/ACRE	LIMITATIONS
Peaches	Aphids	3/8-1 pint/100 gal. water.	Areas Other Than California — Do not apply within 14 days before harvest. Do not apply more than 1 gal. of this product per acre per application. Do not apply more than 1 1/2 gal. of this product per acre per year. In California — Do not apply within 21 days before harvest. Do not apply more than 2 1/2 quarts of this product per acre per application. Do not apply more than 1 1/2 gal. of this product per acre between Jan. 1st and harvest. The farm operator shall not permit workers to enter the treated area to engage in any activity requiring substantial contact with foliage within 21 days after application.
	Catfacing Insects, Eye-Spotted Bud Moths, Mites, Cottony Peach Scales, Thrips	1/2 pint/100 gal. water. For thrips, apply at 25% bloom. Repeat at 5 to 6 day intervals through petal fall period.	
	Cottony Cushion Scale Crawlers, Shothole Borers, Tarnished Plant Bugs	1/2-3/5 pint/100 gal. water. For Shothole Borers, apply during adult beetle activity.	
	Leafrollers, Peach Bark Beetles, Peachtree Borers, Plum Curculio	1/2-2/3 pint/100 gal. water. For Peach Bark Beetles, apply to foliage and trunk. For Peachtree Borers, apply 2-3 sprays to trunk from ground to scaffold limbs timed with moth flights. For Plum Curculio, apply at petal fall and every 10-14 days thereafter until control is achieved.	
	Forbes Scales, White Peach Scales	3/5 pint/100 gal. water. For White Peach Scales, use is restricted to Southwestern U.S. and for supplemental control to dormant oil application only.	
	Oriental Fruit Moths, Scales	1/2-1 pint/100 gal. water. For Oriental Fruit Moths, apply at petal fall and every 10-14 days thereafter until control is achieved. For Scales, apply when crawlers are present.	
	Lecanium Scales	3/8-1 pint/100 gal. water. Apply after eggs have hatched.	
	San Jose Scales, Olive Scales, Lesser Peachtree Borers	3/4-1 pint/100 gal. water. For San Jose Scales, apply when crawlers appear. For Lesser Peachtree Borers, apply 2-3 sprays to trunk from ground to scaffold limbs timed with moth flights.	
	Peach Twig Borers	1 pint/100 gal. water.	
	Oriental Fruit Moths, Plum Curculio	1 quart/acre. For aerial application only. Apply at petal fall and every 10-14 days thereafter until control is achieved.	
Pecans	Aphids	1/2-3/4 pint/100 gal. water.	Do not apply within 15 days before harvest. Do not apply more than 1 1/2 gal. of this product per acre. Do not apply after husks begin to open. Do not feed treated husks to livestock.
	Pecan Leaf Casebearers, Pecan Nut Casebearers, Walnut Caterpillars, Walnut Webworms	3/5-3/4 pint/100 gal. water. For Pecan Leaf Casebearers, apply 3-5 times at 2-3 week intervals. For Pecan Nut Casebearers, apply when nut tips turn brown and repeat after 7 days and as needed. For Walnut Caterpillars and Walnut Webworms, apply when worms appear and are still small.	
	Mites	3/4 pint/100 gal. water.	
	Twig Girdlers	1-2 pints/100 gal. water. Apply 3-5 times at 2-3 week intervals.	

CROP	CROP PEST	DOSAGE RATE: USE	LIMITATIONS
Plums, Prunes	Aphids, Eye-Spotted Bud Moths, Leafhoppers, Mites, Peachtree Borers, Plum Curculio, Shothole Borers, Thrips, Tortrix Moths	1/2-2/3 pint/100 gal. water. For Peachtree Borers, apply 2-3 sprays to trunk from ground to scaffold limbs timed with moth flights. For Plum Curculio, apply at petal fall and every 10-14 days thereafter until control is achieved. For Shothole Borers, apply to foliage and trunk.	Do not apply within 14 days before harvest. Do not apply more than 1 gal. of this product per acre.
	Codling Moths, Oriental Fruit Moths, Scales	1/2-1 pint/100 gal. water. For Codling Moths and Oriental Fruit Moths, apply at petal fall and every 10-14 days thereafter until control is obtained. For Scales, apply when crawlers appear and the temperature is not above 80°F.	
	Cherry Fruit Flies	1/2 pint/100 gal. water. Apply at petal fall and repeat at shuck split and at 10-14 day intervals thereafter.	
	Peach Twig Borers	1 pint/100 gal. water. Do not apply when temperature exceeds 90°F.	
	Leafhoppers	1-1 1/2 quarts/acre. For aerial application only.	
Quince	Aphids, Spider Mites, Oriental Fruit Moths, Plum Curculio, Quince Curculio, European Fruit Lecanium	3/5-3/4 pint/100 gal. water. For Oriental Fruit Moths and Plum Curculio, apply at petal fall and every 10-14 days thereafter until control is obtained.	Do not apply within 14 days before harvest. Do not apply more than 3 3/5 quarts of this product per acre.
Pears	Leafminers	3/8 pint/100 gal. water.	Do not apply within 14 days before harvest. Do not apply more than 3 3/5 quarts of this product per acre. Injury may occur to Bosc pears.
	Aphids, Mites, Pear Psylla	3/8-1/2 pint/100 gal. water.	
	Green Fruitworms, Pacific Spider Mites, Sordene Spider Mites, Willamette Mites, Pearstags	1/2 pint/100 gal. water.	
	Plum Curculio	1/2-3/5 pint/100 gal. water applied at petal fall and every 10-14 days thereafter until control is achieved.	
	Shothole Borers, Tarnished Plant Bugs	1/2-3/5 pint/100 gal. water. For Shothole Borers, apply to foliage and trunk.	
	Codling Moths, Leafrollers, Mealybugs, Pearleaf Baster Mites, Scales	1/2-2/3 pint/100 gal. water. For Codling Moths, apply at petal fall and every 10-14 days thereafter until control is achieved. For Scales, apply when crawlers are present.	
	Lecanium Scales, Walnut Husk Flies	1/2 pint/100 gal. water.	
Walnuts	Frosted Scales	1/2-1 pint/100 gal. water. Apply during dormant period after defoliation is complete.	Do not apply after husks begin to open. Do not apply more than 1 1/4 gal. of this product per acre. Do not feed treated husks to livestock.
	Codling Moths	1/2 pint/100 gal. water. Apply at petal fall and every 10-14 days thereafter until control is achieved.	
	Aphids, Spider Mites	1 5/8-1/2 pint/100 gal. water.	
	Codling Moths	3 quarts/acre. Apply at petal fall and every 10-14 days thereafter until control is achieved.	

CROP	CROP PEST	DOSAGE RATE: USE	LIMITATIONS
Tangelos, Tangerines (Refer Also To Citrus)	Purple Scales	1-1 1/2 pint 100 gal. water. Use restricted to California only. 1 1/2-1 3/4 gal. of light medium oil emulsion may be added to the spray mixture. Apply at petal fall to prevent fruit scattering.	Do not apply within 14 days before harvest when rates up to 1 gal. per acre are used. Do not apply within 30 days before harvest when rates of above 1 gal. up to 2 1/2 gal. per acre are used in California. The farm operator shall not permit workers to enter treated areas for a 48 hour period following application. Do not allow livestock to graze within 21 days after application when rates of no more than 1 gal. per acre per year are used, nor within 30 days after application when rates above 1 gal. per acre but no more than 2 1/2 gal. per acre per year are used, nor within 45 days after application when rates of more than 2 gal. per acre per application or more than 2 1/2 gal. per acre per year are used.
	Black Scales, Citricera Scales, Cottonycushion Scales, Yellow Scales	1-1 1/2 pint 100 gal. water. Use restricted to California only. Apply at petal fall to prevent fruit scattering.	
	California Red Scales	1-1 1/2 pint 100 gal. water. Use restricted to California only. Apply immediately after bloom or before fruit becomes infected. Apply at petal fall to prevent fruit scattering.	
	Aphids	1-1 1/2 pint 100 gal. water. Use restricted to California only.	
	Thrips	1/2 pint 100 gal. water. Use restricted to areas other than California.	
	Mealybugs	1/2-1 pint 100 gal. water.	
	Orangedog, Plant Bugs, Cottonycushion Scales, Glover Scales, Yellow Scales	1/2-3/4 pint 100 gal. water. Use restricted to areas other than California.	
	Purple Scales	1/2-3/4 pint 100 gal. water. Use restricted to areas other than California. In Florida apply as a postbloom and as a summer application in June through September.	
	Mites, Whiteflies	1/2-3/4 pint 100 gal. water. Use restricted to areas other than California. Combine 1 gal. of emulsive oil concentrate with the spray mixture.	
	Grasshoppers	1 pint 100 gal. water. Use restricted to areas other than California.	
	Black Scales	1/2-1 pint 100 gal. water. In California, apply from August through November.	
	Cutworms, Fuller Rose Beetles, Katydid, Omnivorous Leafrollers, Orangeworms, Pink Scavenger Caterpillars, Western Tussock Moths	1-2 quarts/100 gal. water/acre. Use restricted to California only.	
	Fruittree Leafrollers, Orange Tortrix	1-2 quarts/100 gal. water/acre.	
	Citrus Thrips	1 1/2 quarts/acre. Use restricted to California only. Apply at petal fall and repeat in late summer or early fall to protect new growth and prevent fruit scarring.	
	Yellow Scales, Thrips	1-2 1/2 gal./acre.	

•FOR PREPLANTING SOIL APPLICATION: Incorporate immediately after application into soil.

CROP	CROP PEST	DOSAGE RATE/ACRE
Beans	Cutworms, White Grubs	1 1/2 gals.
	Springtails	1 1/4 gals. Incorporate into top 3-6 inches of soil.
	Symphylans	5-6 quarts. Incorporate into top 6-9 inches of soil.
Beets, Onions	Cutworms, Symphylans, White Grubs	1 1/2 gals.
	*Wireworms	3-4 quarts. Incorporate into upper 4-9 inches of soil. Apply at least 1 1/2 weeks before planting. *Use lower rate for mineral soils and higher rate for organic soils.

CROP	CROP PEST	DOSAGE RATE/ACRE
Brussels Sprouts, Peas, Peppers	Cutworms, Symphylans, White Grubs	1½ gals.
	Wireworms	3-4 quarts. Incorporate into upper 4-9 inches of soil.
Cabbage, Cauliflower, Lettuce	Cutworms, White Grubs	1½ gals. *Use lower rate for mineral soils and higher rate for organic soils.
	*Wireworms	
	Springtails	1½ gals. Incorporate into top 3-6 inches of soil.
	Symphylans	1-1½ gals. Incorporate into top 3-6 inches of soil.
	*Wireworms	3-4 quarts. Incorporate into top 4-9 inches of soil. Apply at least 1-2 weeks before planting. *Use lower rate for mineral soils and higher rate for organic soils.
Cantaloupes, Sweet Potatoes, Turnips	Wireworms	3-4 quarts. Incorporate into top 4-9 inches of soil.
	*Wireworms	*Use lower rate for mineral soils and higher rate for organic soils.
Celery, Collards, Endive, Kale	Wireworms	3-4-½ quarts. Incorporate into top 4-9 inches of soil.
	*Wireworms	*Use lower rate for mineral soils and higher rate for organic soils.
Corn	Cutworms, White Grubs	3-1½ gals. Incorporate into top 4-6 inches of soil.
	Springtails	1½ gals. Incorporate into top 3-6 inches of soil.
	Symphylans	1½-1½ gals. Incorporate into top 6-9 inches of soil.
	*Wireworms	3-4 quarts. Incorporate into top 4-9 inches of soil. Apply at least 1-2 weeks before planting. *Use lower rate for mineral soils and higher rate for organic soils.
Carrots	Springtails, Symphylans	1½ gals. Incorporate into top 3-6 inches of soil.
	*Wireworms	3-4 quarts. Incorporate into top 4-9 inches of soil. *Use lower rate for mineral soils and higher rate for organic soils.
Melons	Cutworms, White Grubs, Symphylans	1½ gals.
	Wireworms	1 gal.
Peanuts	Corn Rootworm Larvae	2-2 ½ quarts. Incorporate into top 4-6 inches of soil. Apply as row soil treatment at planting or pegging. Incorporate lightly into soil.
Potatoes	*Wireworms	1-1½ gals. Incorporate into top 4-9 inches of soil. *Use lower rate for mineral soils and higher rate for organic soils.
Rutabagas	Wireworms	3-4 ½ quarts. Incorporate into top 4-9 inches of soil.
Soybeans	White Grubs, Wireworms	1 gal. Incorporate into top 4-6 inches of soil.
Spinach	Cutworms, Symphylans, White Grubs	1½ gals.
	Wireworms	1 gal.
Sugar Beets	Garden Symphylans	1½ gal. Incorporate into top 6-9 inches of soil.
	White Grubs, Wireworms	1-1½ gals. Incorporate into top 4-6 inches of soil.
Tobacco	Tobacco Wireworms	2-3 quarts.
Tomatoes	Cutworms, White Grubs	1½ gals.
	Symphylans	1½-1½ gals. Incorporate into top 6-9 inches of soil.
	*Wireworms	3-4 quarts. Incorporate into top 4-9 inches of soil. *Use lower rate for mineral soils and higher rate for organic soils.
Watermelons	Wireworms	3-4 quarts. Incorporate into top 4-9 inches of soil.

FOR USE ON WOODY SHRUBS, TREES, VINES:

CROP	CROP PEST	DOSAGE RATE/ACRE	LIMITATIONS
Christmas Trees	Aphids, Mites	1/2 pint/100 gal. water.	None
Outdoor Ornamentals	Bagworms, Lace Bugs, Spider Mites, Cottonycushion Scales, Thrips	1/3-1 pint	None
	Aphids, Leafhoppers, Leaf tiers, Whiteflies	1/2-1 pint	
	Mealybugs, Scales	1/2-1 1/2 pints	
	Wireworms	2-4 quarts applied as a preplant broadcast treatment only. Incorporate into the top 6-9 inches of soil. Use lower dosage for mineral soil and higher dosage for organic soil.	

FOR USE ON ORNAMENTALS:

CROP	CROP PEST	DOSAGE RATE/ACRE	LIMITATIONS
Outdoor Ornamentals	Bagworms, Lace Bugs, Spider Mites, Cottonycushion Scales, Thrips	1/3-1 pint	None
	Aphids, Leafhoppers, Leaf tiers, Whiteflies	1/2-1 pint	
	Mealybugs, Scales	1/2-1 1/2 pints	
	Juniper Webworms	1/2-1 1/5 pints	
	Wireworms	1/2-1 1/2 gal. applied as a preplant broadcast treatment only. Incorporate into top 6-9 inches of soil. Use lower dosage for mineral soil and higher dosage for organic soils.	