

BEST AVAILABLE COPY

ACCEPTED
APR 5 1985
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. **301-401**

RESTRICTED USE PESTICIDE
For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Federally Registered Uses
As Of March 1, 1985



Pydrin[®]
Insecticide
2.4 Emulsible Concentrate

AVISO
PRECAUCION
AL USUARIO:
Si usted no lee las etiquetas, no use este producto hasta que la etiqueta haya sido explicada completamente.

KEEP OUT OF REACH OF CHILDREN
WARNING
May be irritating to skin, eyes, nose and throat.
Causes substantial but temporary eye injury.
Harmful if swallowed.

Contents

Directions for Use	3
General Directions	3
Cotton	4
Field Crops	5-7
Fruit and Nuts	8-10
Vegetable Crops	11-13
Specialty Uses	14
Notice of Warranty	3
Precautionary Statements	2
Hazards to Humans	2
Environmental Hazards	2
Storage and Disposal	3
Reentry Statements	3

SHELL CHEMICAL COMPANY
A Division of Shell Oil Company
AGRICULTURAL CHEMICALS
HOUSTON, TX 77001

ACL 2319E 3-85

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Pydrin®
Insecticide
2.4 Emulsible Concentrate

This product contains 2.4 lbs. of PYDRIN per gallon

ACTIVE INGREDIENT	BY WEIGHT
Cyano (3-phenoxyphenyl) methyl- 4-chloro-alpha-(1-methylethyl) benzeneacetate	30%
INERT INGREDIENTS	70%
TOTAL	100%

EPA Reg. No. 201-401
 EPA EST No. 5905-AR-1

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED, do not induce vomiting. Call a physician. Gastric lavage should be supervised by a physician or the professional staff because of the possible pulmonary damage via aspiration of the solvent.

IF ON THE SKIN, wash with plenty of soap and water. Get medical attention if irritation persists.

IF IN EYES, flush with plenty of water. Call a physician.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS — WARNING

Causes substantial but temporary eye injury. Wear goggles while handling. Can cause irritation to skin such as burning and tingling. Do not get in eyes, on skin, or on clothing. Wear protective gloves while handling. Harmful if swallowed or absorbed through skin. If material gets on skin, the affected area should be thoroughly washed with plenty of soap and water. Remove and wash clothing before reuse.

For 24-hour emergency medical assistance, call (713) 473-9461.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

WILDLIFE PROTECTION IS EVERYONE'S RESPONSIBILITY

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply PYDRIN or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Additional information may be obtained by consulting your Cooperative Extension Service.

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DIRECTIONS FOR USE

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

FOR END-USE ONLY. DO NOT REPACKAGE OR REFORMULATE WITHOUT MANUFACTURER'S WRITTEN APPROVAL.

REENTRY STATEMENTS

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Do not enter treated areas without protective clothing until sprays have dried.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure.) When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: "WARNING! Area treated with PYDRIN Insecticide on (date of application). Do not enter without appropriate protective clothing until sprays have dried. (Insert here action to take in case of accidental exposure. See front panel STATEMENT OF PRACTICAL TREATMENT for details.)"

GENERAL DIRECTIONS

PYDRIN Insecticide 2.4 Emulsible Concentrate contains 2.4 pounds of active ingredient per gallon. For the applications given below, mix the required amount of PYDRIN in sufficient diluent to provide uniform coverage (Refer to Use Tables). PYDRIN may be applied by ground or aerial application equipment. Do not enter treated areas before spray is dry. Do not plant root crops other than those in this label within 12 months after last application. Root crops in this label and all other rotation crops may be planted immediately following last application.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

STORAGE: Store in a secure, dry and temperate area. Keep container closed when not in use. Do not store near food or feed. Do not use or store around the home. Avoid contact with water. In case of spill or leak, soak up with sand, earth or synthetic absorbent (do not use alkaline absorbents) and dispose of wastes in compliance with local, State and Federal regulations.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinse is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning if container reuse is permitted. If container reuse is prohibited, puncture metal containers and dispose of in a sanitary landfill, or by other approved State and local procedures. Dispose of plastic containers in a sanitary landfill, or by incineration if allowed by State and local authorities. Dispose of glass containers in a sanitary landfill, or by other approved State and local procedures.

In case of a significant spill, call CHEMTREC (800) 424-9300 or (713) 473-9461.

NOTICE OF WARRANTY

SHELL CHEMICAL COMPANY MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PURPOSE, OR OTHERWISE, 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.

Sumitomo Chemical Company, Ltd., holds U.S. Patents for the active ingredient. Sales by Shell Chemical Company of products containing the active ingredient are made under agreements with Sumitomo Chemical Company, Ltd.

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COTTON

Crop	Insect	Dosage		Number acres treated with Cotton	Further Use Instructions	Days to Harvest
		Lb a/ acre	Fl oz/ acre			
Cotton	Pink Bollworm	0.05 - 0.1	2 - 2/3 - 5 - 1/3	48 - 24	May be applied in water or nonvolatile vegetable oils. When using oil, apply a total spray volume of 1 or more quarts/acre. When diluted with water, apply no less than one gallon per acre by air (min. of 3 gal/a in Arizona and 5 gallons per acre in California) or 4 gallons per acre by ground. Repeat as necessary throughout season to maintain control. For the control of Bull Weevil, a 3-5 day interval between sprays may be required. Apply no more than 2 lbs/a to a crop in a growing season. Do not graze livestock on treated fields or feed treated trash. *Low rate to be used only for light infestations. **Acts in the suppression	21
	Cotton Leaf Perforator	0.1	5 - 1/3	24		
	Cotton Bollworm	0.08* - 0.2	4 - 1/4 - 10 - 2/3	30 - 12		
	Tobacco Budworm, Lygus Bugs, Cabbage Looper, Bean Armyworm, Boll Weevil, Whitefly ^{**} , Cutworms, Saltmarsh Caterpillar, Thrips (on seedling cotton), Plant Bugs, Leafhoppers, Fleahoppers, Grasshoppers, Cotton Leafworm	0.1 - 0.2	5 - 1/3 - 10 - 2/3	24 - 12		

COTTON — TANK MIX APPLICATIONS
READ AND FOLLOW ALL PRECAUTIONS AND RESTRICTIONS ON THE PRODUCT LABELING.

Tank Mix Combination	Insect	Dosage	Further Use Instructions	Days to Harvest
NUDRIN [®] 1.8 Methomyl Insecticide Solution	Cotton Bollworm and Tobacco Budworm eggs	PYDRIN (from cotton table) with 1/2 pt/acre NUDRIN 1.8		21
NUDRIN [®] 90 Methomyl Insecticide Water Soluble Powder (with adjuvant)	Cotton Bollworms and Tobacco Budworm eggs	PYDRIN (from cotton table) with 1/8 lb/acre NUDRIN 90	Add adjuvant (X-77, Bee-88, Unite, Triton B-1956 or equivalent [†]) to spray tank, then PYDRIN, then NUDRIN 90, agitate until thoroughly mixed.	
Azodrin [®] 5 Water Miscible Insecticide	Thrips	PYDRIN (from cotton table) with 3-5 oz/acre AZODRIN 5	Use the higher rates when insect populations are high.	
	Whiteflies	PYDRIN (from cotton table) with 3/8 - 1 - 5/8 pt/acre AZODRIN 5		
	Mites	PYDRIN (from cotton table) with 7/8 - 1 - 5/8 pt/acre AZODRIN 5		

[†]Compatibility of alternate should be determined before use.

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FIELD CROPS

Crop	Insect	Dosage		Number acres treated with foliage	Further use instructions	Days to Harvest	
		Lb ai/ acre	Fl oz/ acre				
Field Corn					Do not exceed 1.0 lb. a.i. per acre per season.	21	
	PYDRIN 2.4 EC may be tank-mixed with the following herbicides when insect populations require control concurrent with the need for weed control. Follow all herbicide label directions regarding proper herbicide usage. Insect compatibility should be conducted before field mixtures are made and applications initiated.						
	BLADEX BOWP BLADEX 4L	ATRAZINE 80 WP ATRAZINE 4L	Beep 3 SL Bevint 4CC	Dual WE Roundup	Paraquat CL Lasso 4 EC		
	Cutworm Grasshoppers	0.1 - 0.2	5-1/3 - 10-2/3	24-12	Apply as necessary to maintain control.		
	Western Bean Cutworm	0.05 - 0.1	2-2/3 - 5-1/3	48-24	Apply as necessary to maintain control. Application must be made before larvae enter the ear.		
	Corn Earworm	0.1 - 0.2	5-1/3 - 10-2/3	24-12	First application should be at or before silking. Subsequent applications should be made at 3-5 day intervals until silking is completed. Repeat applications may be applied if economically damaging populations exist.		
	Stalk Borer Flea Beetles	0.1 - 0.2	5-1/3 - 10-2/3	24-12	Application must be made early in migration from grassy areas to corn, before borers enter the plant. More than one application may be necessary.		
	Corn Rootworm (adult control)	0.1 - 0.2	5-1/3 - 10-2/3	24-12	Spray at first sign of silk feeding. Reinfestation may occur. Should reinfestation occur, repeat as necessary to maintain control.		
Chinch Bugs	0.1 - 0.2	5-1/3 - 10-2/3	24-12	Over the top sprays, as used for control of ear and stalk infesting corn pests, are not adequate for chinch bug control. It is very important that the spray be directed at the base of the plant through the use of drop nozzles or some other mechanism. Repeat as necessary to control migrating chinch bugs.			

BLADEX® Trademark of Shell Chemical Co. Beep®, Dual®, Bevint®, ATRAZINE®, Roundup®, Lasso®—Trademarks of Monsanto Co. Paraquat®—Trademark of Chevron Chemical Co.

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FIELD CROPS cont.

Crop	Insect	Dosage		Number acres treated with gallon	Further Use Instructions	Days to Harvest
		Lb ai/ acre	Fl oz/ acre			
Field Corn (cont. seed)	European Corn Borer	0.15 - 0.2	8.0 - 10-2/3	16-12	<p>First brood: spray while eggs are in the black-head stage or before the larvae enter the whorl. Application by ground equipment is suggested. Good coverage of both upper and lower leaf surfaces is essential. This can be accomplished with drop nozzles over the row and on each side of the corn plant. Multiple applications may be required when egg laying is prolonged or where moderate to heavy populations are present. A higher rate is recommended for moderate to heavy populations. Proper coverage by ground equipment usually requires 20-30 gallons of carrier. Once larvae enter the whorl, later sprays will not provide adequate control.</p> <p>Second brood: make applications when sufficient egg masses are found. Spray when eggs are in the blackhead stage or starting to hatch. When egg laying is prolonged or a third generation is present, additional sprays may be required. A higher rate is recommended for moderate to heavy populations. Good coverage above, below, and in the ear zone is essential. This usually requires 2-3 gallons of carrier by air. If ground equipment is used, drop nozzles on each side of the plant will provide best coverage.</p>	21
	Southwestern Corn Borer	0.1 - 0.2	5-1/3 - 10-2/3	24-12	Apply as necessary to maintain control. Two or more applications may be required. Higher rates (0.15-0.2 lb ai) are recommended for moderate to heavy populations.	
	Armyworm (True Armyworm)	0.1 - 0.2	5-1/3 - 10-2/3	24-12	Apply as necessary to maintain control.	

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FIELD CROPS cont.

Crop	Insect	Dosage		Number Acres treated with Gallon	Further Use Instructions	Days to Harvest
		Lb a/a acre	Floz/ acre			
Field Corn (continued)	Corn Leaf Aphid Oat Bird-Cherry Aphid	0.1 - 0.2	5-1/3 - 10-2/3	24-12	For optimum results, direct the spray at the aphid population so as to achieve maximum coverage of the exposed insects. Aphids not contacted by the spray, such as in whorls and leaf axils, may not be adequately controlled.	21
Seed Corn	For specific insect control recommendations refer to Field Corn (above). Follow directions carefully.				Multiple applications and/or shortened intervals between sprays must be used to insure proper insect control. Do not exceed 1.0 lb a.i. per acre per season.	21
Pop Corn	For specific insect control recommendations refer to Field Corn (above). Follow directions carefully.				Multiple applications and/or shortened intervals between sprays must be used to insure proper insect control. Do not exceed 1.0 lb a.i. per acre per season.	1
Peanuts	Corn Earworm, Red-necked Peanut Worm, Potato Leathopper, Velvetbean Caterpillar	0.05-0.1	2-2/3-5-1/3	48-24	Repeat as necessary to maintain control. Do not feed or graze livestock on treated vines. Do not exceed 0.8 lb a.i. per acre per season. * * Aids in control. * * * Aids in control. For heavy infestations use of Nudrin insecticide is recommended. Please refer to the Nudrin label for use instructions.	21
	Beet Armyworm, Granulate Cutworm, Grasshoppers, Cutworms	0.1-0.2	5-1/3-10-2/3	24-12		
	Lesser Cornstalk Borer * Fall Armyworm * * *	0.2	10-2/3	12		
Soybean	Mexican Bean Beetle, Green Cloverworm, Velvetbean Caterpillar, Potato Leathopper, Saltmarsh Caterpillar, Woollybear Caterpillar	0.05-0.1	2-2/3-5-1/3	48-24	Repeat as necessary to maintain control. Do not feed or graze livestock on treated plants. Do not exceed 0.8 lb a.i. per acre per season. When applying in nonvolatile vegetable oils use a total spray volume of 1 or more quarts.	21
	Crabapple Hopper, Corn Earworm, Southern Green Stinkbug, Bean Leaf Beetle, Cutworms, Three-cornered Alfalfa Hopper, Beet Armyworm, Grasshoppers, Japanese Beetle (adult)	0.1-0.2	5-1/3-10-2/3	24-12		
Sugarcane	Sugarcane Borer	0.1-0.2	5-1/3-10-2/3	24-12	Repeat as necessary to maintain control. Do not exceed 0.8 lb a.i./acre per season.	21
Sunflower	Sunflower Beetle	0.05-0.1	2-2/3-5-1/3	48-24	Repeat as necessary to maintain control. Do not exceed 0.8 lb a.i./acre per season. Do not feed treated fodder or forage to livestock.	28
	Grasshoppers, Cutworms, Heliothis (complex), Sunflower Moth, Sunflower Seed Weevil, Banded Sunflower Moth, Beet Armyworm, Sunflower Maggot, Leathoppers	0.1-0.2	5-1/3-10-2/3	24-12		

* Claims not yet registered for use in California

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FRUITS AND NUTS

DILUTE SPRAY: Apply specified dosage per 100 gallons of water in a uniform spray applied to the point of drip with conventional ground equipment. Do not exceed maximum number of gallons per acre indicated.

NOTE: In order to apply the correct amount of PYDRIN insecticide to your orchard you must know the number of gallons of water needed to spray one acre of your trees to the point of drip. If you do not already know this gallonage, you should conduct a test to determine it. If you do not know how to conduct such a test with your equipment, you should ask assistance from your equipment dealer or State Extension specialist.

CONCENTRATE SPRAY: Apply specified dosage per acre in no less than 30 gals. of water per acre by ground. When applying Pydrin by air, consult your Cooperative Extension Service for application guidelines.

Crop	Insect	Dosage			Number acres treated with Gallon	Further Use Instructions	Days to Harvest
		Concentrate Spray		Dilute Spray			
		lb a/z/acre	Fl oz/acre	Fl oz/100 gals			
Apples	Oblique Banded Leafroller, Codling Moth, Variegated Leafroller, White Apple Leafhopper, Tentiform Leaf Miner, San Jose Scale (fruit infestations only), Apple Aphid, Tufted Apple Budmoth, Plum Curculio, Oriental Fruit Moth, Apple Maggot, Red-Banded Leafroller, Lesser Appleworm, Green Fruitworm, Rosy Apple Aphid, Plant Bugs (Tarnished Plant Bug, Stink Bugs)	0.1-0.3	5-1/3-16	2-2/3-8	24-8	Repeat as necessary to maintain control. Do not feed or graze livestock on treated orchard floors. Do not exceed 2 lbs a.i. per acre per season. For dilute spray apply 200-600 gals per acre, but do not exceed 16 fl. oz. of Pydrin 2.4 EC per acre per treatment. <u>Plant Bug, Rosy Apple Aphid Control</u> —Time of application is critical in achieving control. Use prebloom and post bloom spray timings recommended by State Extension Services.	21

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FRUITS AND NUTS cont.

Crop	Insect	Dosage			Number acres treated with Gallon	Further Use Instructions	Days to Harvest
		Concentrate Spray		Dilute Spray			
		Lb a.i./acre	Fl oz/acre	Fl oz/100 gal's			
Peach	<p>Peach Twig Borer, Oriental Fruit Moth, Peach Tree Borer, Plum Curculio, Lesser Peach Tree Borer</p> <p>Plant Bugs (Tarnished Plant Sug. Slink Bugs)</p>	0.1-0.3	5-1/3-16	2-2/3-8	24-8	<p>Repeat as necessary to maintain control. Do not exceed 1.5 lbs. a.i. per acre per season with no more than 1.2 lbs. a.i. per acre per season between bloom and harvest. For dilute spray apply 200-400 gals per acre, but do not exceed 16 fl. oz. of Pydrin 2.4 EC per acre per treatment. Do not graze livestock on treated orchard floors.</p> <p><u>Peach Tree Borer</u></p> <p><u>Lesser Peach Tree Borer Control</u> — apply as directed trunk and scaffold limb spray. Thorough coverage of trunk and scaffold limbs is required.</p> <p><u>Peach Twig Borer, Plum Curculio, Oriental Fruit Moth Control</u></p> <p>Apply by ground sprayer to achieve thorough coverage of all aerial portions of the tree.</p> <p><u>Plant Bug Control</u></p> <p>— Time of application is critical in achieving control. Use prebloom and post bloom spray timings recommended by State Extension Services.</p>	14
Pear (dormant)	Pear Psylla	0.7-0.4	10-2/3-21-1/3	8-14	12-6	<p>Apply during dormant to prebloom (white bud) stage only. Do not apply more than 0.8 lb. a.i. per acre per season. Do not graze orchard floor. For dilute spray apply 150-250 gal's per acre, but do not exceed 21-1/3 fl. oz. of Pydrin 2.4 EC per acre per treatment.</p>	

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FRUITS AND NUTS cont.

Crop	Insect	Dosage			Number acres treated with Gallon	Further Use Instructions	Days to Harvest
		Concentrate Spray		Dilute Spray			
		Lb a/ acre	Fl oz/ acre	Fl oz/ 100 gals			
Pear	Pear Psylla, Codling Moth, Green Fruitworm, Plum Curculio, Leafrollers, Pear Slug	0.1-0.3	5-1/3-16	2-2/3-8	21-8	Repeat as necessary to maintain control. Do not exceed 1.5 lbs a.i. per acre per season, nor more than 0.9 lb a.i. per acre between bloom and harvest. Do not feed or graze livestock on treated orchard floors. For dilute spray apply 200-600 gals per acre, but do not exceed 16 fl oz of Pydrin 2.4 EC per acre per treatment.	28
Hiberts	Hibert Worm Oblique Banded Leafroller	0.2-0.4	10-2/3-21-1/3	5-1/3-10-2/3	12-6	Make first application after emergence of hibert worm moths in early summer. Do not apply a second treatment earlier than three weeks after the first. Do not apply more than 0.8 lb a.i. per acre per season. For dilute spray apply 200-400 gals per acre, but do not exceed 21-1/3 fl oz of Pydrin 2.4 EC per acre per treatment. Do not graze livestock in treated orchards.	21
Pecans	Pecan Weevil, Hickory Shuckworm, Pecan Nut Casebearer, Pecan Aphids, Pecan Spittlebug Pecan Stem Phylloxera Pecan Leaf Phylloxera	0.1-0.3 0.1-0.3	5-1/3-16	2-2/3-8	24-8	Repeat as necessary to maintain control. Do not feed or graze livestock on treated orchard floors. Do not exceed 1.2 lbs a.i. per acre per season. For dilute spray apply 200-600 gals per acre, but do not exceed 16 fl oz of Pydrin 2.4 EC per acre per treatment. Correct timing of spray applications is critical in achieving optimum control of leaf and stem phylloxera. Consult local spray recommendations for correct times of application.	21
Walnut	Walnut Aphid Walnut Husk Fly Codling Moth Navel Orangeworm	0.2-0.4	10-2/3-21-1/3	5-1/3	12-6	Repeat as necessary to maintain control. Do not exceed 0.8 lb a.i. per acre per season. For dilute sprays, apply 200-400 gals per acre. Do not feed or graze livestock on treated crop floors. NOTE: Use of baits in Walnut Husk fly sprays is recommended where endorsed by local Agricultural Extension Service. CONCENTRATE SPRAY: Apply specified dosage per acre in no less than 30 gals of water per acre by ground or 3 gals of water per acre by air.	21

VEGETABLE CROPS

Crop	Insect	Dosage		Number acres treated with Gallon	Further Use Instructions	Days to Harvest
		Lb a/ acre	Fl oz/ acre			
Artichokes	Artichoke Plum moth	0.1	5-1/3	24	Apply no more than three times per crop. Begin application when larvae first appear with subsequent applications at 14 day intervals. Apply in a minimum of 100 gallons per acre by air and 50-200 gallons per acre by ground (use sufficient water to obtain coverage without excessive runoff).	7
Broccoli, Cabbage, Cauliflower	Diamondback Mo	0.05-0.1	2-2/3-5-1/3	48-24	Repeat as necessary to maintain control. Do not exceed 1.6 lbs a.i. per acre per season.	3
	Imported Cabbageworm, Cabbage Looper, Beet Armyworm, Alfalfa Looper, Flea Beetle, Grasshopper, Cutworm	0.1-0.2	5-1/3-10-2/3	24-12		
Cucumber, Melons (Cantaloupe, Honeydew, Melons, Watermelon, Muskmelon), Pumpkin, Squash (Summer, Winter)	Pickleworm, Rindworms, Leafhoppers, Corn Earworm, Cabbage Looper, Squash Bug, Cutworms (seedling spray), Cucumber Beetle (adult control), Grasshoppers, Plant Bugs (Lygus Bugs, Stink Bugs), Squash Vine Borer	0.1-0.2	5-1/3-10-2/3	24-12	Repeat as necessary to maintain control. Do not exceed 1.0 lb a.i. per acre per season. Do not apply on zucchini squash as injury may occur.	3
Dry Beans, Dry Peas	Mexican Bean Beetle, Saltmarsh Caterpillar	0.05-0.1	2-2/3-5-1/3	48-24	Repeat as necessary to maintain control. Do not exceed 0.8 lb a.i. per acre per season. Do not feed or graze livestock on treated vines.	21
	Corn Earworm, Potato Leafhopper, Pea Aphid, Grasshoppers, Pea Weevil, Leafhoppers, Cowpea Curculio, Pea Leaf Weevil, Cutworms, Cabbage Looper, Western Bean Cutworm, Velvetbean Caterpillar, Beet Armyworm, Cucumber Beetle, Corn Rootworm (Adults), Painted Lady Butterfly, Larvae, Green Cloverworm	0.1-0.2	5-1/3-10-2/3	24-12		

1957

VEGETABLE CROPS cont.

Crop	Insect	Dosage		Number acres treated with Gallon	Further Use Instructions	Days to Harvest
		Lb a/ acre	Fl oz/ acre			
Eggplant	Colorado Potato Beetle, Flea Beetles, Corn Earworm, Loopers, European Corn Borer	0.1-0.2	5-1/3-10-2/3	24-12	Begin application when insects or their damage is observed and repeat at 7 to 10 day intervals to achieve control. Do not exceed 1.4 lbs a.i. per acre per season.	7
Green Peas	Pea Aphid, Green Cloverworm	0.05-0.1	2-2/3-5-1/3	48-24	Repeat as necessary to maintain control but do not exceed 0.4 lb a.i. per acre per season. Do not feed treated pea vines to livestock.	3
	Cabbage Looper, Celery Looper, Alfalfa Looper, Cowpea Curculio, Cutworms, Pea Leaf Weevil, Armyworm, Corn Earworm, Imported Cabbageworm, Alfalfa Caterpillar	0.1-0.2	5-1/3-10-2/3	24-12		
Peppers	European Corn Borer, Fall Armyworm, Beet Armyworm, Flea Beetles, Corn Earworm, Loopers, Colorado Potato Beetle, Pepper Weevil, Cucumber Beetle (adults), Southern Armyworm	0.1-0.2	5-1/3-10-2/3	24-12	Begin application when insects or their damage is observed and repeat at 7 to 10 day intervals to achieve control. Do not exceed 1.4 lbs a.i. per acre per season.	7
Potato	Potato Psyllid, Potato Tuberworm	0.05-0.1	2-2/3-5-1/3	48-24	Repeat as necessary to maintain control. Do not graze livestock on treated vines. Do not exceed 1.4 lbs a.i. per acre per season.	7
	Flea beetles, Tarnished Plant Bug, Cabbage Looper, Potato Aphid, Potato Leafhopper, Cucumber Beetle (adult control), Grasshoppers, European Corn Borer, Beet Armyworm, Western Yellow-striped Armyworm, Buckthorn Aphid, Cutworms	0.1-0.2	5-1/3-10-2/3	24-12		
	Colorado Potato Beetle	0.05-0.1	2-2/3-5-1/3	48-24		
	West of Mississippi River					
East of Mississippi River	0.1-0.2	5-1/3-10-2/3	24-12			
	Long Island, NY	0.2	10-2/3	?		

VEGETABLE CROPS cont.

Crop	Insect	Dosage		Number acres treated with Calson
		Lb a/ acrs	Fl oz/ acrs	
Sweet Corn	Corn Earworm, Southwestern Corn Borer, European Corn Borer, Beet Armyworm, Flea Beetles, Sap Beetles (adults), Banded Cucumber Beetle, Tarnished Plant Bug	0.1-0.2	5-1/3-10-2/3	24-12
	Stalk Borer, Cutworms, Corn Rootworms (adult control), Grasshoppers, Chinch Bugs, Armyworm	0.1-0.2	5-1/3-10-2/3	24-12
	Western Bean Cutworm	0.05-0.1	2-2/3-5-1/3	48-24
	Corn Leaf Aphid, Oat Bird-Cherry Aphid	0.1-0.2	5-1/3-10-2/3	24-12
Tomato	Tomato Hornworm, Tobacco Hornworm	0.05-0.1	2-2/3-5-1/3	48-24
	Tomato Pinworm, Flea Beetle, Tomato Fruitworm, Colorado Potato Beetle, Cutworms, Cabbage Looper, Southern Armyworm, Sugarbeet Armyworm, Western Yellow-Striped Armyworm, Grasshopper, Whitefly, Potato Aphid	0.1-0.2	5-1/3-10-2/3	24-12
	Vegetable Leafminer	0.2	10-2/3	12

REPT

SPECIALTY USES

Crop	Insect	Dosage		Number acres treated with Gallon	Further Use Instructions
		Lb a/ acre	fl oz/ acre		
Non-Crop Land (including public land such as forests, parks, or recreational areas)	Grasshoppers, Saltmarsh Caterpillar	0.05-0.1	2-2/3-5-1/3	48-24	Spray non-crop land adjacent to tilled areas to control migrating insects (Grasshoppers, Armyworms) which are a threat to crops. Repeat as necessary to maintain control but do not exceed 2 lbs active ingredient per acre per year. Do not feed treated crop to livestock. Do not spray ditch banks or areas adjacent to water.
	Armyworms, Army Cutworms, Chinch Bugs	0.1-0.2	5-1/3-10-2/3	24-12	

Site	Insect	Dosage			Further Use Directions	
		High Volume Sprays		Low Volume Sprays		
		Lb a/ 100 gals.	fl oz/ 100 gals.	(Mistblower) lb a/A		
Christmas Tree Plantings, Pine Seed Orchards, Forest Tree Nurseries	Kantucket Pine, Tip Moth, Sprinklebug, Pineleaf Chermid, Redheaded Pine Sawfly, Balsam Woolly Adelgid, Pine Chafer, Red Pine Sawfly, Pine Conifer Bug, European Pine Sawfly, Cranberry Girdler (adult control), Pine Needle Widge	0.1-0.2	5-1/3-10-2/3	1/3-2/3 Teaspoon	0.1-0.2	Apply as needed to maintain control. Spray sufficient gallonage to obtain good coverage of entire tree. High volume sprays on Virginia Pine may cause some yellowing of needles, low volume (Mistblower) applications at the rate of 0.1 to 0.2 lb a/acre are recommended to avoid this problem.
Christmas Tree Plantings and Forest Tree Nurseries not yet registered in California	Pales Weevil, Northern Pine Weevil	0.1-0.2	5-1/3-10-2/3	1/3-2/3 Teaspoon		Apply as needed to maintain control. Dilute formulation in kerosene instead of water and spray tree stumps to control developing larvae. Use sufficient spray volume to thoroughly cover stump.
	Coneworms, Seedbugs, Seed Chalcid	11 fl oz/100 gals water for high volume sprayers 3.5 pts/100 gals water for low volume sprayers 0.75 lb a/acre application in not less than 10 gals of water for aerial applications				Apply first application within 1 week of female flower closure or peak pollen flight for Webbing Coneworm control. For other Coneworms and Seedbugs, apply first application within 30 days following female flower closure. Repeat application at intervals of 4 weeks but do not exceed 6.3 lbs a/acre. For Seed Chalcid control, apply when all cones are pendant and repeat at 1-2 week intervals for 2 or more sprays or as needed. Apply approximately 5-10 gals of the 11 fl oz/100 gal dilution per tree with high volume sprayers. With low volume sprayers apply 100 gals of the 3.5 pts/100 gal dilution per acre. Do not graze or harvest cover crop. Avoid contact with open water. Some foliar chlorosis may occur on Douglas Fir when concentrated (low volume) sprays are employed. To avoid this problem use high volume sprays.