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EC70-1507 Insect Control Recommendations for Vegetables in the Home Garden in Nebraska

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EC 70-1507

STUDY THE LABEL

EC 70-1507

INSECT CONTROL RECOMMENDATIONS FOR VEGETABLES

IN THE HOME GARDEN

NEBRASKA

David Keith, R.E. Roselle, Lloyd Andersen
Agricultural Extension Entomologists

Insect control recommendations in this guide are based on research results of the University of Nebraska, U.S.D.A. recommendations, and label registrations. Suggestions are designed to benefit when control programs are needed. Recommendations are subject to withdrawal or change at any time.

In some instances trade names have been used to simplify recommendations. No endorsement is implied by the Nebraska Cooperative Agricultural Extension Service, and no discrimination is intended.

PRECAUTIONS: Insecticides are useful when used properly to protect plants from destructive insects. All of them are poisonous to some degree and must be handled, used, and stored using proper safety precautions. Labels provide necessary information about proper use, storing, handling, and treatment of accidental poisoning. It is very important that labels be studied before using any pesticide. Be certain that the correct amounts are used, and the prescribed number of days elapse between application and harvest. In case of accidental poisoning, a physician should be contacted immediately. Most accidents occur because of improper storage. Never store insecticides in pop bottles or containers other than the original. Always destroy containers immediately after they are emptied. Break glass bottles, crush metal cans, bury aerosol cans, and burn paper bags.

The Nebraska Master Poison Control Center is located at the Childrens Memorial Hospital, Omaha, Nebraska. The telephone number is 553-5400, area code 402. Physicians can obtain latest treatment information from this center.

INSECTICIDE FORMULATIONS: Insecticides for home vegetable gardens are available as wettable powders, emulsion concentrates, dusts, aerosols, and granules. Wettable powders and emulsion concentrates (liquid concentrates) must be diluted in water. Wettable powders are safer to plants. Dusts are used without dilution. Granules are primarily for application to soil for control of soil insects. Aerosols prepared for plant use must be used cautiously to avoid "burning" of tender foliage. Aerosols manufactured for household use should not be used on plants, as serious burning may result.

EXTENSION SERVICE, UNIVERSITY OF NEBRASKA
COLLEGE OF AGRICULTURE AND HOME ECONOMICS AND
U. S. DEPARTMENT OF AGRICULTURE COOPERATING
E. F. FROLIK, DEAN J. L. ADAMS, DIRECTOR

ABBREVIATIONS USED IN THIS CIRCULAR:

Tabl. . . . . tablespoon
tea. . . . . teaspoon
WP. . . . . wettable powder
EC. . . . . emulsifiable concentrate

ALL PURPOSE INSECT CONTROL MIXTURE: For control of both sucking and chewing insects on garden vegetables, the following mixtures are suggested:

MATERIAL	AMOUNT TO 1 GALLON WATER
Methoxychlor 50% wettable powder	2 level tablespoons
or	
Sevin 50% wettable powder	2 level tablespoons
PLUS	
Malathion 25% wettable powder	2 level tablespoons
or	
Diazinon 25% wettable powder	2 level tablespoons

CROP AND INSECT	INSECTICIDE	AMOUNT TO 1 GAL. WATER	DAYS TO EXPIRE BEFORE HARVEST AND RESTRICTIONS
BEANS AND PEAS			
Aphids	Malathion 25% WP	2 Tabl.	7 days
	Malathion 57% EC	2 tea.	7 days
	Diazinon 25% EC	2 tea.	7 days
	Rotenone 1% dust		None
Bean leaf beetles	Methoxychlor 50% WP	3 Tabl.	7 days
	Sevin 50% WP	2 Tabl.	3 days
	Rotenone 1% dust		
Leafhoppers	Methoxychlor 50% WP	3 Tabl.	7 days
	Sevin 50% WP	2 Tabl.	3 days
Caterpillars	Same as for leafhoppers		
Spider mites	Malathion 25% WP	2 Tabl.	7 days
	Diazinon 25% EC	2 tea.	7 days
	Malathion 57% EC	2 tea.	7 days
CABBAGE, CAULIFLOWER, RELATED CROPS			
Aphids	Same as for beans and peas		
Flea beetles	Methoxychlor 50% WP	3 Tabl.	7 days
	Methoxychlor 5% dust		3 days
	Malathion 50% EC	2 tea.	7 days
	Rotenone 1% dust		None
Cabbage worms	Methoxychlor 50% WP	3 Tabl.	7 days
	Malathion 25% WP	2 Tabl.	7 days
	Malathion 57% EC	2 tea.	7 days
	Rotenone 1% dust		None

CROP AND INSECT	INSECTICIDE	AMOUNT TO 1 GAL. WATER	DAYS TO EXPIRE BEFORE HARVEST AND RESTRICTIONS
CABBAGE, CAULIFLOWER, RELATED CROPS (continued)			
Cutworms and white grubs	Chlordane 5% dust		Apply to soil and rake before planting. 2 pounds to 1000 Sq. Ft.
	Diazinon 2% G		Apply to soil and rake before planting. 5 pounds to 1000 Sq. Ft.
Harlequin bugs	Methoxychlor 50% WP	3 Tabl,	7 days
	Sevin 50% WP	2 Tabl.	3 days
CARROTS			
Carrot weevil	Sevin 50% WP	3 Tabl.	Spray over row when carrots are 3/4 inch high, repeat every 7 days for 3 applications.
CUCURBITS			
Aphids	Malathion 57% EC	2 tea.	1 day
	Diazinon 25% EC	2 tea.	7 days
	Rotenone 1% dust		None
	Malathion 25% WP	2 Tabl.	1 day
Cucumber beetles	Methoxychlor 50% WP	3 Tabl.	1 day
	Sevin 50% WP	2 Tabl.	1 day
Squash bugs and squash vine borer	Methoxychlor 50% WP	4 Tabl.	1 day
	Sevin 50% WP	2 Tabl.	1 day
	Malathion 5% dust		1 day
TOMATOES			
Aphids	Same as for CUCURBITS		
Blister beetles	Sevin 50% WP	2 Tabl.	3 days
	Methoxychlor 50% WP	3 Tabl.	7 days
Cutworms	Same as for CABBAGE		
Fruit worms (corn earworms)	Methoxychlor 50% WP	3 Tabl.	Apply weekly
	Sevin 50% WP	2 Tabl.	Wash fruit
Hornworms	Same as for fruit worms		
Caterpillars	Same as for fruit worms		
Slugs	Metaldehyde baits		Follow label directions
POTATOES			
Beetles	Sevin 50% WP	2 Tabl.	None
	Methoxychlor 50% WP	3 Tabl.	None
Aphids	Same as for CUCURBITS		

CROP AND INSECT	INSECTICIDE	AMOUNT TO 1 GAL. WATER	DAYS TO EXPIRE BEFORE HARVEST AND RESTRICTIONS
POTATOES (continued)			
Flea beetles	Sevin 5% dust		None
	Sevin 50% WP	2 Tabl.	None
Soil insects	Same as for Cutworms in CABBAGE		
Leafhoppers	Sevin 5% dust		None
	Sevin 50% WP	2 Tabl.	None
	Methoxychlor 50% WP	3 Tabl.	
SPINACH AND BEETS			
Aphids	Malathion 57% EC	2 tea.	7 days
	Rotenone 1% dust		
Flea beetles	Rotenone 1% dust		
Webworms	Same as for aphids		
SWEET CORN			
Corn earworm	Sevin 50% WP	2 Tabl.	Apply 1, 4, and 7 days after silking directly to the tips of ears.
Corn rootworm larvae	Diazinon 2% granules		Use 1½ to 2 pounds per 1000 feet of row applied as a 7 inch band at the time of planting.
Corn rootworm adults	Malathion 57% EC	2 tea.	Apply sprays when beetles begin to feed on silks. Repeat if necessary until pollination is complete. Sevin used for corn earworm control will control rootworm beetles.
	Diazinon 25% EC	2 tea.	
	Sevin 50% WP	2 Tabl.	
European corn borers	Sevin 50% WP	2 Tabl.	Spray into whorls of plants when plants are 24 inches high for first brood. Spray entire plant August 1 and 15 for second brood.
Grasshoppers	Same as for corn rootworm adults.		