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EC65-1504 Insect Control Recommendations for Small Grain, Field Beans, Soybeans, Sugar Beets in Nebraska

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STUDY THE LABEL

INSECT CONTROL RECOMMENDATIONS FOR

SMALL GRAIN, FIELD BEANS, SOYBEANS, SUGAR BEETS

NEBRASKA

Compiled by Extension Entomologists

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The insect control recommendations in this guide are based on University of Nebraska research results, U.S.D.A. recommendations, and label registrations. Control results will vary due to methods of application, climatic conditions, and other factors. The suggestions contained herein are designed to benefit Nebraska farmers when they need control programs. 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 Extension Service, and no discrimination is intended.

All insecticides must be used with caution. Labels should be of recent date, and studied until the user is certain that the material is approved for the use intended. PARATHION, ENDRIN, SYSTOX, TRITHION, AND PHOSPHAMIDON ARE HIGHLY TOXIC MATERIALS AND NOT TO BE USED BY FARMERS. THEY ARE TO BE APPLIED BY TRAINED OPERATORS WITH ADEQUATE EXPERIENCE.

All materials must be used so that drift does not contaminate adjacent forage crops. The chlorinated hydrocarbon insecticides which have a longer residual period must be used with every precaution to prevent contamination of crops to be used for livestock feed, especially for dairy cattle. The chlorinated hydrocarbon materials in this circular are: ALDRIN, DIELDRIN, ENDRIN, TOXAPHENE, HEPTACHLOR, METHOXCHLOR.

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

SMALL GRAIN INSECTS

INSECT	INSECTICIDE	AMOUNT PER ACRE	DAYS TO ELAPSE BEFORE HARVEST AND OTHER RESTRICTIONS
Pale western and Army cutworms	Endrin 19.5% E.C.	1 pint	Do not graze treated fields. To be applied by trained operators.
Armyworms	Dieldrin 18.6% E.C.	1 1/3 pints	7 days. Do not use stubble or straw for feed, pasture, or bedding.
	Toxaphene 60% E.C.	2 pints	7 days (14 on barley). Do not apply more than once. Do not use stubble or straw for feed, pasture, or bedding.
	Parathion 46% E.C.	1/2 pint	15 days. To be applied by trained operators only.
Grasshoppers	Aldrin 41% E.C.	1/4 pint	7 days. Do not use stubble or straw for feed, pasture or bedding.
Grasshoppers	Dieldrin 18.6% E.C.	1/3 pint	Same as for aldrin.
	Malathion 57% E.C.	1 1/2 pints	No restrictions.
	Sevin 80% WP	1 1/2 pounds	No restrictions.
	Toxaphene 60% E.C.	2 pints	Same as for armyworms
Brown Wheat Mites	Parathion 46% E.C.	1/2 pint	15 days. To be applied by trained operators only.
Greenbugs	Parathion 46% E.C.	1/2 pint	Same as brown wheat mites.
	Methyl parathion 46% E.C.	1/2 pint	Same as for parathion.
	Phosphamidon 49% E.C.	1 pint	30 days. To be applied by trained operators only.
Chinch bugs	Dieldrin 18.6% E.C.	1/3 gallon	Barrier strips between grain and corn or sorghum.
White grubs	Aldrin 41% E.C.	3 quarts	Apply before sowing and disk into soil.
	Dieldrin 18.6%	2 gallons	Apply before sowing and disk into soil.
	Heptachlor 22% E.C.	1 1/2 gallons	Apply before sowing and disk into soil.

SMALL GRAIN INSECTS CON'T.

INSECT	INSECTICIDE	AMOUNT PER ACRE	DAYS TO ELAPSE BEFORE HARVEST AND OTHER RESTRICTIONS
False wireworms and Wireworms	Dieldrin 50% WP		4 ounces per bushel of seed.
	Heptachlor 50% WP		6 ounces per bushel of seed.
Hessian flies	Thimet and Di-Syston are registered for control of Hessian flies as a time of planting treatment. The economics and effectiveness in Nebraska is not certain.		Plant after fly-safe date. Destroy volunteer wheat in summer. Plow down stubble after harvest. Plant resistant varieties.

SOYBEAN INSECTS

Green cloverworms	Sevin 80% WP	1 1/2 pounds	No restrictions.
Bean leaf beetle	Sevin 80% WP	1 1/2 pounds	No restrictions.
Mexican bean beetle	Sevin 80% WP	1 1/4 pounds	No restrictions.
	Malathion 57% E.C.	1 1/2 pints	1 day.
	Methoxychlor 50% WP	3 pounds	7 days.

FIELD BEANS

Aphids	Malathion 57% E.C.	2 pints	1 day.
	Dibrom 60% E.C.	1 pint	4 days.
	Parathion 46% E.C.	1 pint	15 days. Parathion to be applied by trained operator only.
	Diazinon Ag. 500	1 pint	7 days.
Leafhoppers	Sevin 80% WP	2 pounds	1 day.
	Malathion 57% E.C.	2 pints	1 day.
Mexican bean beetle	Same as for soybeans		
Western bean cutworm	Sevin 80% WP	1 1/4 pounds	1 day.

FIELD BEANS CON'T.

INSECT	INSECTICIDE	AMOUNT PER ACRE	DAYS TO ELAPSE BEFORE HARVEST AND OTHER RESTRICTIONS
Spider mites	Trithion 45.8% E.C.	3/4 quart	21 days (7 days if plants are not to be used for feed). Apply Trithion not more than 2 times per season. To be applied only by trained operators.
	Systox 2 lb. E.C.	1 pint	21 days. Systox to be applied by trained operator only.
SUGAR BEETS			
Aphids	Malathion 57% E.C.	2 pints	No restrictions.
	Parathion 46% E.C.	1 pint	15 days. To be applied by trained operators only.
Flea beetles	Sevin 80% WP	2 pounds	No restrictions.
	Parathion 46% E.C.	1 pint	15 days. To be applied by trained operators only.
Leafhoppers	Same as for flea beetles		
Spider mites	Trithion 45.8% E.C.	1 pint	14 days. To be applied by trained operators only.
Webworms	Dylox 50% SP	3 pounds	28 days. 14 days if tops not to be fed to livestock.
	Parathion 46% E.C.	1 pint	15 days. To be applied by trained operators only.
	Phosphamidon 49% E.C.	2 pints	30 days. To be applied by trained operators only.
Wireworms and other soil insects	Diazinon 14% G	21 pounds	Broadcast on soil and immediately work into upper 6 inches 1 week before planting in fields that have had problems. Parathion granules must be used with extreme caution and <u>all persons and animals kept off treated fields for 48 hours.</u>
	Parathion 10% G	40 pounds	