

1969

EC69-1509 Insect Control Guide for Corn and Sorghum Nebraska

Robert E. Roselle

University of Nebraska-Lincoln, rroselle1@unl.edu

Lloyd Andersen

David Keith

Follow this and additional works at: <http://digitalcommons.unl.edu/extensionhist>

Roselle, Robert E.; Andersen, Lloyd; and Keith, David, "EC69-1509 Insect Control Guide for Corn and Sorghum Nebraska" (1969).
Historical Materials from University of Nebraska-Lincoln Extension. 3959.
<http://digitalcommons.unl.edu/extensionhist/3959>

This Article is brought to you for free and open access by the Extension at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Historical Materials from University of Nebraska-Lincoln Extension by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

AGRI
S
85
E7
#69-1509
c.1

EC 69-1509

RECEIVED
EC 69-1509

APR 16 1969

INSECT CONTROL GUIDE FOR CORN AND SORGHUM

NEBRASKA

COLLEGE OF AGRICULTURE
LIBRARY

R. E. Roselle, L. W. Andersen, D. L. Keith
Agricultural Extension Entomologists

Insect control suggestions in this guide are based on University of Nebraska research results, U.S.D.A. recommendations, and label registrations. Insect controls are not perfect. The suggestions are designed to benefit Nebraska farmers when they need control programs.

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

TOXICITY OF INSECTICIDES

All insecticides are poisonous and must be used with caution. They should always be stored in the original container out of the reach of children, uninformed adults, and livestock. Empty containers must be burned or buried, and left-over materials disposed of by burying at least 18 inches in the soil away from water supplies. It is very important that the labels of every insecticide be studied until they are understood. Safety precautions and use instructions are on all labels. Follow these completely to avoid accidental poisoning or death, and to prevent illegal residues in crops.

The highly toxic insecticides in this publication are ethyl parathion, methyl parathion, endrin, phosdrin, EPN, Dy-Syston, Thimet, Dyfonate, Dasanit and Systox. Skull and crossbones and the word Poison in red appear on the label of highly toxic materials. These chemicals are not recommended for farmer application as sprays. They must be applied only by well trained, responsible and insured commercial operators. However, with proper precautions, farmers should be able to use granular formulations for soil application to control corn rootworms.

Moderately highly toxic insecticides are diazinon, dylox, dieldrin, toxaphene, aldrin, heptachlor, and lindane. They must be used with special care. Familiarize yourself with all the warnings given on the labels.

Moderately toxic insecticides are Sevin (carbaryl), Bux-Ten, chlordane, and malathion. When using these, avoid all unnecessary exposure to the skin, lungs, and digestive system. Note the label cautions.

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: WP . . wettable powder lbs./gal. . . pounds actual per gallon
 G . . granules Gal. gallon
 Pt . . pint Lbs. pounds
 SP . . soluble powder D. dust

SOIL INSECTS

<u>Insect</u>	<u>Material</u>	<u>Amount Active Ingredient Per Acre</u>	<u>Restrictions</u>
CORN ROOTWORM LARVAE			
<u>Planting time</u>	Bux-Ten 10% G	0.8 - 1 Lb.	Apply as a band 6 to 7 inches wide over the row and incorporate into the upper inch of soil. If rows are narrower than 40 inches, use recommended amount per each 13,200 feet of row.
	Dasanit 15% G	0.8 - 1 Lb.	
	Dyfonate 10% G	0.8 - 1 Lb.	
	Thimet 15% G	1 Lb.	
<u>Cultivation time</u> (June 1 - 10)	Di-Syston 10% G	1 Lb.	Apply over the row or on each side of row. Cover with soil by cultivation. Do not harvest Di-Syston treated fields within 100 days of application.
	Thimet 15% G	1 Lb.	
CUTWORMS			
<u>Preplant</u>	Aldrin	2 Lbs.	Broadcast 2 to 3 weeks before planting or before replanting. DO NOT USE ON fields that will be planted to root crops or legumes following corn or sorghum. DO NOT USE ON DAIRY FARMS.
	Heptachlor	2 Lbs.	
<u>Postplant</u>	Toxaphene	3 Lbs.	Concentrate over row when damage is first observed. Endrin should be applied over the row or broadcast only by experienced operators. DO NOT FEED ENDRIN OR TOXAPHENE TREATED FORAGE TO DAIRY OR MEAT ANIMALS.
	Endrin	4 Oz.	
	Dylox (Trichlorfon)	1 Lb.	
	Sevin (Carbaryl)	2 Lbs.	
WIREWORMS			
	Aldrin	1 Lb.	Row spray over seed furrow at time of planting. DO NOT USE ON DAIRY FARMS.
	Heptachlor	1 Lb.	
SEED INSECTS			
	Seed treatment with dieldrin, lindane, aldrin, heptachlor or diazinon.		Follow package directions. Never mix treated seed with feed grain.

INSECTS ATTACKING CORN ABOVE SOIL

<u>Insect</u>	<u>Material</u>	<u>Amount Active Ingredient Per Acre</u>	<u>Restrictions</u>	
CORN ROOTWORM ADULTS	Sevin (Carbaryl)	1 Lb.	No restrictions.	
	Ethyl parathion	4 Oz.	Ethyl parathion, methyl parathion and EPN are highly toxic chemicals. They are suggested for use only by commercial applicators. Do not apply within 14 days of harvest.	
	Methyl parathion	4 Oz.		
	EPN	4 Oz.		
		Malathion	1 Lb.	5 days.
		Malathion ULV	8 Fl. Oz.	5 days - for aerial application.
CHINCH BUGS	Endrin	4 Oz.	Barrier strips only. Do not feed treated forage.	
	Toxaphene	2 Lbs.	Barrier strips only. Do not feed treated forage.	
EUROPEAN CORN BORERS	Diazinon 14% G	1 Lb.	10 days.	
	Sevin 20% G (Carbaryl)	2 Lbs.	No restrictions.	
	EPN 2% G	0.2 Lb.	14 days.	
GRASSHOPPERS	Toxaphene	2 Lbs.	Field margins. Do not feed treated forage.	
	Chlordane	1 Lb.	Field margins. Do not feed treated forage.	
	Malathion	1 Lb.	5 days.	
	Malathion ULV	8 Fl. Oz.	5 days.	
	Sevin WP (Carbaryl)	2 Lbs.	No restrictions.	
WESTERN BEAN CUTWORM	Endrin	4 Oz.	Do not feed treated forage.	
	Sevin WP (Carbaryl)	2 Lbs.	No restrictions.	
SPIDER MITES	Parathion	12 Oz.	12 days. Commercial application.	
	2% parathion + 40% sulfur dust	30 Lbs. dust.	12 days. For aerial application.	

INSECTS ATTACKING CORN ABOVE SOIL

<u>Insect</u>	<u>Material</u>	<u>Amount Active Ingredient Per Acre</u>	<u>Restrictions</u>
GARDEN WEBWORMS	Sevin WP (Carbaryl)	1.6 Lbs.	No restrictions.
ARMYWORMS AND FALL ARMYWORMS	Sevin WP (Carbaryl)	1.6 Lbs.	No restrictions.
	Dylox (Trichlorfon)	1 Lb.	40 days.

SORGHUM INSECTS

CORN EARWORMS	Sevin WP (Carbaryl)	2 Lbs.	21 days for grain.
	Phosdrin (Mevinphos)	8 Oz.	3 days. For commercial application only. Phosdrin is hazardous.
CORN LEAF APHIDS	Malathion	1 Lb.	5 days. Only when infestation is severe at the time head is in the boot and later.
FALL ARMYWORMS	Sevin WP (Carbaryl)	2 Lbs.	21 days for grain.
	Toxaphene	1 Lb.	28 days. Do not feed treated forage to animals being finished for slaughter. DO NOT USE ON DAIRY FARMS.
GREENBUGS	Ethyl parathion	8 Oz.	12 days. Commercial application only.
	Phosdrin (Mevinphos)	3 Oz.	3 days. Commercial application only.
	Systox (demeton)	4 Oz.	35 days. Commercial application. One application.
	Malathion	1 Lb.	7 days. Ground application.
	Diazinon	0.5 Lb.	7 days. Ground application.