

1972

## EC72-1509 Insect Control Guide for Corn and Sorghum

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## INSECT CONTROL GUIDE FOR CORN AND SORGHUM

### NEBRASKA

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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 and left-over materials must be 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, Phosdrin, EPN, Di-Syston, Thimet, Dyfonate, Dasanit, Systox, and Prophos. 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 dieldrin, toxaphene, Ehion, Trithion, 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 diazinon, Sevin (carbaryl), Dylox, Bux-Ten and chlordane. When using these, avoid all unnecessary exposure to the skin, lungs, and digestive system. Note the label cautions.

Furadan is highly toxic orally, moderately toxic dermally.

Registrations of some chemicals listed in this publication are subject to review and withdrawal in 1972. Visit with your county agricultural agent before making the final decision of which insecticide to use.

Revised February 1972, 5,000

Extension Service, University of Nebraska College of Agriculture Cooperating with the  
U. S. Department of Agriculture and the College of Home Economics  
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EC 72-1509

# SOIL INSECTS

## CORN ROOTWORM LARVAE

AMOUNT ACTIVE  
INGREDIENT PER  
ACRE (40" rows)

AMOUNT FORMULATION  
PER 1000 LINEAR FT.

## REMARKS

### PLANTING TIME

Bux 10G	1 Lb.	11.5 ounces
Dasanit 15G	1 Lb.	8.0 ounces
Diazinon 14G	1 Lb.	8.5 ounces
Dyfonate 10G	1 Lb.	11.5 ounces
Dyfonate 20G	1 Lb.	6.0 ounces
Furadan 10G	0.8 Lb.	10.5 ounces
Prophos 15G (Jolt)	1 Lb.	8.0 ounces
Prophos 10G (Mocap)	1 Lb.	11.5 ounces
Thimet 15G	1 Lb.	8.0 ounces

Apply as a band 6 inches wide over rows and work 1/2 to 1 inch into soil. Do not place Prophos, Bux, or Thimet in contact with seed. Diazinon suggested for use only on corn planted after May 18.

### CULTIVATION TIME

Bux 10G	1 Lb.	11.5 ounces
Dasanit 15G	1 Lb.	8.0 ounces
Dyfonate 10G	1 Lb.	11.5 ounces
Dyfonate 20G	1 Lb.	6.0 ounces
Diazinon 14G	1 Lb.	8.5 ounces
Di-Syston 15G	1 Lb.	8.0 ounces
Furadan 10G	0.8 Lb.	10.5 ounces
Thimet 15G	1 Lb.	8.0 ounces

Diazinon, Dyfonate, Di-Syston, Furadan, and Thimet can be applied over whorls. Cover granules that fall to the soil by cultivation or hilling. Bux and Dasanit to be applied at base of plants and covered with soil.

## MATERIAL

AMOUNT ACTIVE  
INGREDIENT PER ACRE

## RESTRICTIONS

### CUTWORMS

Aldrin	2 Lbs.
Heptachlor	2 Lbs.

Broadcast 2 to 3 weeks before planting or before replanting and disk 3 or 4 inches into soil. DO NOT USE on fields that will be planted to root crops or legumes following corn. DO NOT USE ON DAIRY FARMS

### WIREWORMS AND CUTWORMS

Aldrin EC	1 Lb.
Heptachlor EC	1 Lb.

Row spray over seed furrow at planting. Cover with soil. DO NOT USE ON DIARY FARMS



SEED INSECTS

Seed treatment with dieldrin, lindane, aldrin, heptachlor or diazinon.

Follow package directions. Never mix treated seed with feed grains.

INSECTS DAMAGING CORN ABOVE GROUND

	MATERIAL	AMOUNT ACTIVE INGREDIENT PER ACRE	REMARKS
CORN ROOTWORM ADULTS	Carbaryl (Sevin)	1 Lb.	Ethyl and methyl parathion, and EPN are suggested for <u>commercial application</u> only. 14 day harvest restriction on parathion and EPN. 5 day harvest restriction for malathion.
	Ethyl parathion	4 Oz.	
	Methyl parathion	4 Oz.	
	EPN	4 Oz.	
	Malathion	1 Lb.	
	Malathion ULV	8 Oz.	
CHINCH BUGS	Toxaphene	2 Lbs.	Barrier strips. Do not feed treated forage.
EUROPEAN CORN BORERS	Diazinon 14G	1 Lb.	10 days
	EPN 2G	0.3 Lb.	14 days
	Thimet 15G	1 Lb.	30 days. <u>First brood only.</u>
	Sevin 10G	2 Lbs.	No restrictions
	Toxaphene 10G	2 Lbs.	Do not feed toxaphene treated silage to animals being finished for slaughter. Do not graze meat animals within 4 weeks of slaughter. DO NOT USE ON DAIRY FARMS.
	Sevin 80WP	2 Lbs.	Use nozzles over whorls for first brood and 4 nozzles per row for second brood so leaf axils and ear zones are thoroughly covered with spray. Harvest limitations same as for granules.
	EPN 4 Lbs./gal. (commercial application)	0.5 Lb.	
	Diazinon Ag 500	1 Lb.	
GRASSHOPPERS	Toxaphene	2 Lbs.	Field margins only. Do not feed treated forage.
	Sevin 80WP	2 Lbs.	No restrictions.

	Malathion EC	1 Lb.	5 days.
	Chlordane EC	1 Lb.	Field margins only. Do not feed treated forage.
	Parathion EC	8 Oz.	Commercial application only.
	Malathion ULV	8 Oz.	14 days.
			Commercial application. 5 days.
WESTERN BEAN CUTWORM	Carbaryl (Sevin) WP	2 Lbs.	No restrictions.
SPIDER MITES	Parathion EC	12 Oz.	12 days. Commercial application only.
	Thimet 15G	1 Lb.	30 days. Commercial application.
	Di-Syston 15G	1 Lb.	40 days. Commercial application.
	Ethion EC	1 Lb.	50 days. One application. Do not feed treated forage.
	Trithion EC	1 Lb.	21 days. One application.
ARMYWORMS AND FALL	Sevin WP	1.6 Lbs.	No restrictions.
ARMYWORMS	Malathion EC	1 1/4 Lbs.	5 days.
	Trichlorfon (Dylox)	1 Lb.	21 days. One application.

# SORGHUM INSECTS

	MATERIAL	<u>AMOUNT ACTIVE</u> <u>INGREDIENT PER ACRE</u>		REMARKS
ARMYWORMS AND FALL	Carbaryl (Sevin)	2 Lbs.		21 days for grain.
ARMYWORMS	Toxaphene	1 Lb.		28 days. Do not feed treated forage to animals being finished for slaughter. DO NOT USE ON DAIRY FARMS.
CORN LEAF APHIDS	Malathion	1 Lb.		5 days. Only when infestation is severe at the time head is in the boot and later.
	Diazinon	0.5 Lb.		7 days.
GREENBUGS	Malathion EC	1 Lb.		5 days.
	Diazinon Ag 500	0.5 Lb.		7 days.
	Ethyl parathion EC	.5 Lb.		12 days. Commercial application.
	Di-Syston EC	.5 Lb.		28 days. Commercial application.
				One time per season.

Phosdrin 3 Oz.  
Systox 4 Oz.  
Thimet 15G 1 Lb.

Di-Syston 15G 1 Lb.

# SEED INSECTS

Seed treatment in planter box  
with aldrin, heptachlor, lindane,  
diazinon or dieldrin.

3 days. Commercial application.  
35 days. Commercial application.  
At planting OR over rows post  
emergence. Do not place in con-  
tact with seed. Use one time  
per season and not within 30  
days of harvest.

At planting OR over rows after  
plants emerge. Do not place in  
contact with seed. Use one time  
per season, and not within 30 days  
of harvest.

Follow package directions. Never  
mix treated seed with feed grains.