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## EC69-1510 Insect Control Guide for Beef Cattle in Nebraska

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EC 69-1510

# INSECT CONTROL GUIDE FOR BEEF CATTLE IN NEBRASKA

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Extension Entomologists

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PRECAUTIONS: Insecticides are poisonous to man and animals if not used correctly.

Always read and understand the label before opening packages.

Do not use unless full instructions are on the label.

Never use more insecticide than is recommended.

Observe the minimum time after treatment before slaughter.

Do not treat sick or stressed animals.

Never use a crop insecticide on livestock.

The chemicals listed in this publication are not all that are available for use on livestock. They are considered safe when used according to directions. Proper use should not result in illegal residues or injury to beef animals.

Information on preparation, amount to use, how to use, and special instructions are on the label. BE CERTAIN THE LABEL IS RECENT. Read and understand it before opening the container.

Insecticides are manufactured as dusts (D), wettable powders (WP), soluble powders (SP), solutions (S), and emulsifiable concentrates (EC). Dusts may be preferred during very cold weather, and are normally used as they are purchased. Wettable powders and soluble powders are to be mixed with water. It is necessary that mixtures be agitated constantly to prevent settling out, resulting in higher concentration at the bottom of the tank. Emulsifiable concentrates are to be mixed with water and agitated before application. Emulsifiable concentrates may also be mixed with fuel, furnace, diesel, or special back-rubber oils for use in rubbing devices. Solutions are not mixed with water. They are used as light mist sprays, or as prepared pour-ons for cattle grub control. Some solutions are prepared for mixing with back-rubber oils.

Systemic insecticides listed in this circular are Co-Ral, Korlan, Neguvon, Ruelene, Trolene, and Warbex.

Organic phosphate insecticides listed in this circular are Ciodrin, Co-Ral, Delnav, Korlan, Malathion, Neguvon, Ruelene, Trolene, and Warbex.

Cholorinated hydrocarbon insecticides listed in this circular are lindane, methoxychlor, and toxaphene.

Sevin is a carbamate insecticide. Pyrethrins are extracts of plants.

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	Ciodrin	Co-Ral (coumaphos)	Delnav (dioxathion)	Korlan (ronnel)	Lindane	Malathion	Methoxychlor	Neguvon (trichlorfon)	Ruelene (crufomate)	Sevin (carbaryl)	Toxaphene	Trolene (ronnel)	Warbex (famphur)	Pyrethrins
Minimum days before slaughter	0	0	0	56	30	0	0	14-21	28	7	28	21-60	35	0
SPRAYS														
Horn fly, lice and ticks		X	X	X	X	X	X			X	X			
Cattle grubs		X						X	X			X	X	
Face fly, stable fly and mosquitoes	X													
BACK-RUBBERS														
Horn fly, lice, face fly	X		X	X		X	X				X			
DUST BAGS *														
Horn fly, face fly	X	X					X							X
POUR-ON														
Cattle grubs		X						X	X				X	
FEED ADDITIVE														
Cattle grubs												X		
DIPS														
Cattle grubs		X												
SCREWORMS		X												

\*Some dusts are commercially available as combinations.

## RESTRICTIONS AND DILUTIONS

- CIODRIN:** Do not apply more than once a week except as a mist spray.  
Do not apply if systemic grub control has been used (Co-Ral, Ruelene, Neguvon, Warbex, or ronnel).
- Spray - 2 gallons 46.9% EC in 100 gallons water.  
Back-rubber - Mix 1 pint 46.9% EC in 7 gallons oil.  
Dust bag - 3% dust.
- CO-RAL:** Do not treat animals less than 3 months old.  
(systemic) Spray animals 3 - 6 months old lightly.  
Do not use with any other insecticide, or internal medication.  
Do not use 10 days before or after shipping or weaning.
- Spray - For horn fly and lice use 4 lbs. 25% WP in 100 gallons water.  
For cattle grubs, use 12 pounds 25% WP in 100 gallons water.
- Dip - Use 8 lbs. 25% WP in 100 gallons water.
- Pour-on - Use 4% prepared solution, 1/2 ounce to each 100 lbs. of body weight, but not more than 4 ounces per animal.
- DELNAV:** Do not reapply within 2 weeks.  
Spray - 2 qts. 30% EC in 100 gallons water.  
Back-rubber - 1 part 20% EC in 20 parts oil.
- KORLAN:** Do not use with any other insecticide, or internal medication.  
(systemic) Spray - 2 gallons 24% EC in 100 gallons water.
- LINDANE:** Use for lice only. Do not use on calves less than 1 month old, or emaciated or lactating animals.  
Spray - 1 quart 20% EC in 100 gallons water.
- MALATHION:** Do not use on calves less than 1 month old.  
Spray - 7 pints 57% EC in 100 gallons water.  
Back-rubber - 1 pint 57% EC in 7 gallons oil.
- METHOXY-CHLOR:** No restrictions.  
Spray - 2 gallons 25% EC in 100 gallons water. 8 lbs. 50% WP in 100 gallons water.  
Back-rubber - 1 part 25% EC in 4 parts oil.
- NEGUVON:** Do not use with any other insecticide, or internal medication.  
(systemic) Do not treat calves less than 3 months old.  
Do not use 10 days before or after shipping, weaning, or exposure to contagious diseases. Apply July 1 to September 30.
- Spray - Mix 10 lbs. 80% SP in 100 gallons water.  
Pour-on - 1/2 ounce 8% prepared solution per 100 pounds of body weight, but not more than 4 ounces per animal.



RUELENE: Do not use with any other insecticide, or internal medication.  
(systemic) Do not use pour-on in hot or humid weather. Do not apply more than once every 28 days. Apply from July 1 to September 30.

Spray - 2 gallons 25% EC in 100 gallons water.  
Pour-on - 1 part 25% EC in 3 parts water. Apply 1 ounce per 100 pounds body weight, but not more than 8 ounces per animal.

SEVIN: Do not repeat more often than every 4 days.  
Spray - 5 lbs. 80% WP in 100 gallons water. Use 1 quart per adult animal.

TOXAPHENE: Do not use on animals less than 3 months old.  
Spray - 1 gallon 40% EC in 100 gallons water. 10 lbs. 40% WP in 100 gallons water.  
Back-rubber - Mix 1 part 60% EC in 16 parts oil.

TROLENE: Do not use any other systemic insecticide if Trolene is being fed.  
Do not feed to sick or stressed animals. Do not feed to animals receiving organic phosphate treatment from any source (Ciodrin, Co-Ral, Delnav, Korlan, malathion, Neguvon, Ruelene, Warbex).  
Do not use 0.6% within 60 days of slaughter.  
Do not use 0.25% within 28 days of slaughter.  
Do not use 5.5% within 21 days of slaughter.  
Feed additive - 0.6% in feed, 0.3 lbs. per 100 pounds body weight daily for 7 days, between July 1 and September 30.  
0.25% in feed, 0.3 lb. per 100 pounds body weight daily for 14 days, between July 1 and September 30.  
5.5% in block or granules, 0.25 lb. per 100 pounds body weight per month continuously for not less than 75 days.

WARBEX: Do not use with any other insecticide or internal medication.  
(systemic) Pour-on - Use 12.5% prepared solution, 1/2 ounce to each 100 pounds of body weight, but not more than 4 ounces per animal.

PYRETHRINS: Do not use in conjunction with organic phosphates.

Dust bag - 0.075% dust, 12 $\frac{1}{2}$  pounds per 10 - 15 animals.

Trade names have been used in some instances. This is not to be interpreted as an endorsement of a particular brand, nor is it intended to discriminate against similar products which are not mentioned by name.