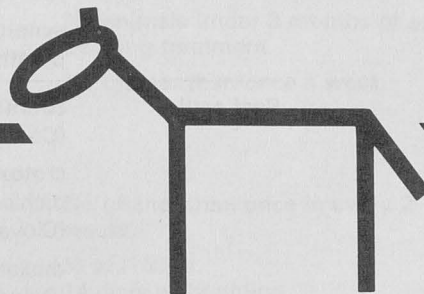
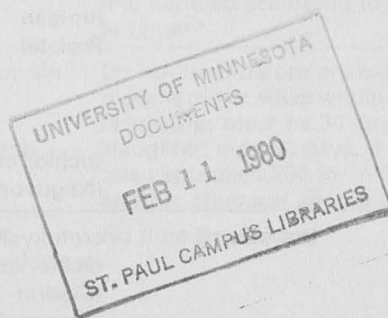


MN 2000
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Insecticide Suggestions To Control Livestock And Poultry Pests In 1980



Extension Folder 413—Revised 1980
AGRICULTURAL EXTENSION SERVICE
UNIVERSITY OF MINNESOTA

Insecticide Suggestions To Control Livestock and Poultry Pests In 1980

Do not use after 1980

Pest	Host	Insecticide	Dosage	Limitations	
Cattle Grubs	Beef cattle	coumaphos (Co-Ral)	0.5% spray 4% pour on	None	
		Use only one treatment for grub control. Attempt to treat when animal is not under stress.	famphur (Warbex)	13.2% pour-on	1 oz. per 200 lb. body weight (do not exceed 4 oz.) Do not repeat treatment. 35 days before slaughter. Not after Nov. 1.
			fenthion (Tiguvon Spotton)	0.199% feed pre-mix	4 oz. per 100 lb. daily for 10 days. 4 days before slaughter.
				0.255% spray	1 application per season. Do not use within 45 days of slaughter.
				3% pour-on	½ fluid oz. per 100 lb. of body weight. 35 days between treatments. 35 days before slaughter.
		phosmet (Imidan Prolate)	20% spot application	4cc's per 300 lbs. 45 days before slaughter.	
			4% pour-on	1 fluid oz. per 100 lb. of body weight, but not over 8 fluid oz. per animal. 21 days before slaughter.	
0.25% spray	Apply with high pressure until run-off. 21 days before slaughter.				
trichlorfon (Neguvon)	1% spray 8% pour-on	Do not exceed 1 oz. per 200 lbs. 21 days before slaughter.			
Cattle Lice	Dairy cattle	crotoxyphos-dichlorvos (Ciodrin-Vapona, Ciovap)	0.25% spray	Do not apply oftener than once every 7 days.	
		coumaphos (Co-Ral)	0.03% spray 1% dust	None.	
		synergized pyrethrins	0.05%-0.1%	No time limitations.	
	Beef cattle	coumaphos (Co-Ral)	0.0625% spray or dip		
		crotoxyphos-dichlorvos (Ciovap)	0.25% spray		
		dioxathion (Delnav)	0.15% pour-on	Not oftener than 2 weeks.	
		chlorpyrifos (Dursban)	44E spot application	2 cc's per 100 lb. body weight up to 800 lbs. Wait 45 days if retreatment is necessary. 14 days before slaughter.	

J. A. Lofgren is a professor and extension entomologist; D. M. Noetzel is an assistant professor and extension entomologist; P. K. Harein is a professor and extension entomologist; L. K. Cutkomp is a professor, Department of Entomology, Fisheries and Wildlife.

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Pest	Host	Insecticide	Dosage	Limitations
		famphur (Warbex)	13.2% pour-on	See cattle grub treatment.
		fenthion (Lysoff)	0.95% pour-on	Do not treat 10 days before or after shipping. 35 days before slaughter.
		malathion	0.5% dip or spray	7 days.
		methoxychlor	0.5% dip or spray	No time limitations.
			10% dust	
		stirofos (Rabon)	0.35% spray	2 treatments, 28 days apart.
		toxaphene	0.5% spray or dip	28 days.
Face Flies	Dairy cattle	coumaphos (Co-Ral)	0.9% in oil	For face rubber only (1 gal. per 20 ft. cable). Apply as mist spray daily at not over 2 oz. per head. (1 tsp. to forehead). Once per day, morning preferable.
		crotoxyphos (Ciodrin)	1% oil solution	
		crotoxyphos dichlorvos (Ciovap)	1¼% oil solution	
		dichlorvos	1% oil solution	
		pyrethrins + synergist	0.075% oil solution	
		dichlorvos	0.5% baited spray	
	Beef cattle	Same as for dairy or Ciodrin	2% oil solution	On backrubber to permit face treatment.
		or toxaphene	5% oil solution	
Dust bags (see horn fly control) will provide some reduction of face fly numbers.				
Flies (horn, stable, horse) and mosquitoes	Dairy cattle	Only limited control of horse, deer, and stable flies will be achieved using the following treatments.		
		dichlorvos	1% oil spray	Not over 2 oz. per animal daily as a mist.
		crotoxyphos (Ciodrin) (or combination of above, Ciovap)	1% oil spray	Not over 1½ oz. per animal daily as a mist.
		coumaphos (Co-Ral)	1% on backrubbers 1% dust or as a dust bag	
		malathion	4-5% dust	At least 5 hrs. before milking.
		methoxychlor	50% W.P. as dust (1 tbsp.)	Apply after milking not oftener than every 3 weeks.
		synergized pyrethrins (may also contain repellents).	0.05% to 0.1%	Not over 2 oz. per animal daily as a mist.
		stirofos	3% dust	None.

Pest	Host	Insecticide	Dosage	Limitations	
Flies (horn, stable, horse) and mosquitoes	Beef cattle	coumaphos (Co-Ral)	0.0625% spray 0.9% on backrubber 1% dust or as a dust bag	Not oftener than 2 weeks.	
		crotoxyphos (Ciodrin)	1% spray 1% oil on backrubber 3% dust in dust bag		
		dioxathion* (Delnav)	0.15% spray or dip		
		malathion	1.5% in oil on backrubber 0.5% spray 2% in oil on backrubber. 0.6 lb. ULV† by air.		
		methoxychlor	0.5% spray, 5 or 6% in oil on backrubber.		
		stirofos (Rabon)	3% dust		None.
		toxaphene	0.5% spray 5% in oil on backrubber		28 days.
House Flies	Milkhouse or food processing	pyrethrins dichlorvos (Vapona)	0.1% plus synergist Plastic strips	Space spray. One per 1000 cu. ft.	
	Barns and animal housing areas	pyrethrins	0.1% + synergist	Space spray with fogger, aerosol or mist.	
		naled	0.5% bait	Remove animals from buildings prior to spraying. Although not always required on the label, it is a good idea to remove animals from the building prior to treatment with residuals.	
		dichlorvos	0.5% bait		
		dimethoate (Cygon, De-Fend)	1% residual spray		
		malathion‡	1% residual spray 1 to 2% bait		
		stirofos (Rabon, Gardona)	1% residual spray		
		stirofos + dichlorvos	1% + .25% residual spray		
		trichlorfon (Dipterex)	1% bait		
		fenthion (Baytex)	0.8% residual spray		
Poultry Mites, Lice	Chickens Turkeys	coumaphos (Co-Ral)	½% dust 0.25% spray		1 gal. per 100 birds. No time limitations. 1 lb. per 100 birds. 7 days. Do not repeat within 4 weeks. 1 gal. per 100 birds. 7 days. Do not repeat within 4 weeks.
		malathion	0.5% spray		
		carbaryl (Sevin)	4.5% dust		
			5% dust		
			0.5% water mist spray		

†ULV = ultra low volume.

*Restricted use material; applicator must be certified to use.

‡If flies are not easily killed, resistance may be involved; newer materials with residual effect are dimethoate, chlorfenvinphos, and stirofos (Rabon).

Pest	Host	Insecticide	Dosage	Limitations
Sheep Keds	Sheep	coumaphos (Co-Ral)	0.025% spray or dip	15 days.
		dioxathion (Delnav)	0.15% spray or dip	Not oftener than 2 weeks.
		diazinon	0.03-0.06% spray or 2% dust	14 days. 14 days.
		malathion	0.5% spray	No time limitations.
		methoxychlor	0.5% spray	
Wool maggots	Sheep	diazinon	0.3% spray or dip	Do not dip or spray animals less than 2 weeks old.
		coumaphos (Co-Ral)	0.025% spray or dip	Do not treat lambs under 3 months old. Do not treat in conjunction with oral drenches or other medication. 15 days.
Lice and Maggots	Goats	Same as above (except diazinon)		Do not apply to lactating goats.
Scab Mites	Sheep			Scabies in sheep is reportable to the State Sanitary Livestock Board. Thus any suspicious skin involvement should be checked by a veterinarian and handled according to his judgment.
Mange Mites (Sarcoptic) and Lice	Swine	lindane*	0.06% as spray or dip 1% dust	Do not treat before animals are 3 months old or sows within 40 days of farrowing; must be 30 days before slaughter, dips 60 days. If growth rates approach 200 lb. in 150 days, another chemical should be used.
			0.2% in oil on back-rubber	
		malathion	0.6% spray or dip 0.5% on rubbing devices 4 to 5% dust	No time limitations.
			toxaphene	0.6% spray or dip 5% dust 5% on rubbing devices
Lice only	Swine	coumaphos (Co-Ral)	0.0625% spray 1% dust	No animals under 3 months of age. Bedding treatment.
			crotoxyphos (Ciodrin)	
		crotoxyphos-dichlorvos (Ciovap)	0.25% spray	
		dioxathion (Delnav)	0.15% dip or spray	No oftener than once in every 2 weeks.
		fenthion (Tiguvon)	3% pour-on	½ oz./100 lb. 14 days withholding.
		methoxychlor	0.5% dip or spray	No time limitations.

*Restricted use pesticide in Minnesota; applicator must be certified to use.

The information given in this publication is for educational purposes only. Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by the Minnesota Agricultural Extension Service is implied.

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Extension Folder 412—Insecticide Suggestions to Control Household Insects.

Extension Folder 414—Insecticide Suggestions to Control Tree, Shrub, Lawn, and Turf Insects.

Extension Bulletin 387—Insecticides.

Extension Bulletin 388—Insecticide Suggestions to Control Insect Pests of Field Crops.

Extension Bulletin 392—Insecticide Suggestions to Control Greenhouse and Floriculture Pests.



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