

CONTROL OF LIVESTOCK PESTS

Published By

THE NORTH CAROLINA AGRICULTURAL EXTENSION SERVICE

North Carolina State College of Agriculture and Engineering of the University of North Carolina and the U. S. Department of Agriculture, Cooperating. State College Station, Raleigh, N. C., D. S. Weaver, Director. Distributed in furtherance of the Acts of Congress of May 8 and June 30, 1914.

> Reprinted From 1955 Pesticide Handbook

CONTROL OF LIVESTOCK PESTS

GEORGE D. JONES

PEST	MATERIAL	DOSAGE	REMARKS
Cattle Grubs	Rotenone	ture containing approxi- mately 1.65% total roten-	Make first application soon af ter grubs or "bumps" first ap pear underneath skin on bac region. Rotenone may also b used as a spray, wash or dip For more details see USDA Farmers' Bulletin No. 1596.
Cattle Lice Dairy (animals giving milk)	Dust Rotenone	Same dust as above for group for grub control but begin application in Oc- tober and make 2 applica- tions at 2 week intervals.	Rub well into flanks, neck an all infested areas. Preferably in fall when certai animals usually are more heavily infested.
	Sprays Methoxychlor, 50% wettable powder.	Spray using 1 lb. 50% wettable powder to 5 gal. water.	Apply thoroughly with sma spray equipment (knapsack of foot pump) using about 1 pin per animal.
	Lindane, 25% wettable powder	A single spray using only 1 to $1\frac{1}{2}$ oz. (2 to 3 level tablespoonfuls) to 5 gal. water may be used.	Repeated applications are no advisable due to harmful at sorption.
Beef (animala not giving milk)	Dust Rotenone or Methoxychlor	Rotenone dust as above or a 5% methoxychlor dust may also be used on ani- mals giving milk or ready for market when there is danger of using DDT.	tion in late fall usually suffici ent. Two applications at month interval may be neces
	Sprays DDT, 50% wettable powder	Spray using 1 lb. 50% wet- table powder to 5 gal. water.	sary to clean up heavy infests tions. When nower equipmen
	Lindane (essentially 100% Gamma Isomer of BHC, 25% wettable powder)	A single spray using only 1 to $1\frac{1}{2}$ oz. (1 to $1\frac{1}{2}$ table- spoonfuls) WP per 5 gal. water has proved effective but re-infestation may oc- cur after 2 weeks.	Follow company recommends tions carefully as this dosag may be harmful to very youn animals.
	Toxaphene, 40% wet- table powder (Do not use on young animals)	Use ½ lb. 40% wettable powder to 5 gal. water.	Chlordane, like toxaphene should not be used on dairy o on young animals. Do Not Us Oil Sprays. Follow compan recommendations carefully.
	Chlordane, 50% wet- table powder	Same as for toxaphene.	
House Fly (Buildings)	Pyrethrum or allethrin with added synergist or thanite	Close doors and windows and apply as space or "fog" spray.	Fly breeding areas should b located and cleaned regularly.
	Bait mixtures contain- ing malathion, Diazinon, and L-13/59	Certain fly "bait" mix- tures have been used by sprinkling on sacks on the floor and as "dry baits" to kill resistant populations.	Follow directions on labels. Diazinon not recommended fo use in dairy barns (2).
	Malathion or Diazinon (2) wettable powder	Apply as a spray using 1 lb. to 2½ gal. water.	Emulsions of these product may also be used. Follow di rections on labels.
	Methoxychlor, 50% wettable powder or 25% emulsion	Use 1 lb. WP or 1 pint emulsion to each 2½ gal. water.	Mix with small amount o water before putting in spray er. Apply to light cords, cros beams and all areas where file are known to stay. Apply with small or power sprayer.
	50% DDT wettable powder or emulsion concentrates	See Methoxychlor above and according to directions on container.	

Control of Livestock Pests-(continued)

PEST	MATERIAL	DOSAGE	REMARKS
Household. Fly (cont'd)	Chlordane 50% wettable powder Lindane, (1) 25% wettable powder or 20% emulsion	1 lb. to each 3 gal. water. 8 oz. (8 to 10 level table- spoonfuls WP) or 1½ cup- fuls emul. to each 5 gal. water.	Same as above and follow di rections on container. Avoid contaminating feed and food DDT and chlordane are not to be used in dairy barns but may be used in many areas wher flies are not resistant.
Hornflies (3) (Dairy animals giving milk)	Methoxychlor, 50% wettable powder Pyrethrum or allethrin with added synergist and water to make spray	Spray using 1 lb, to 5 gal. water. Effective for short periods, from 2 to 4 days. (May be used in 3 gal. sprayer.)	Apply to legs and underneat portions as well as over bael and around horns. Oil sprays if not applied prop erly will harm skin. Follow company recommendations.
Hornflies (3) (Beef and animals not giving milk)	DDT 50% wettable powder Methoxychlor, 50% wettable powder	Spray using 1 lb. to 5 gal. water and thoroughly wet animals. As above.	Same as above on dairy ani mais. Power spray equipmen will speed up control work When power equipment is use reduce DDT to $\frac{1}{2}$ lb. to 5 gal water.
	TDE, 50% wettable powder Lindane, 25% wettable powder Toxaphene, 40% wet- table powder	Same as for DDT. Use 1 to 1½ oz. (2 to 3 level tablespoonfuls) WP per 5 gal, water. Use ½ lb. to 5 gal. water.	Follow company recommenda tions. Follow company recommenda tions. (This product does no give long residual action.) Follow company recommenda tions.
Deer, horse and stable flies	(3) Pyrethrum and piperonyl Butoxide	Same as above on dairy animals.	
Poultry Mite (in building)	Lindane, 25% wettable powder DDT (5% in kerosene spray)	2 to 2½ oz. (4 to 6 level tablespoonfuls) to each 1 gal. water. Apply thor- oughly to nests, roosts, cracks and crevices. Apply thoroughly to roosts, cracks and crevices.	Carbolineum, creosote, crude of
Mites (In litter)	No control needed. Mites may be scav- angers or predacious on insects or other mites		In laying houses with no roost avoid use of materials in litter
Lice	Sodium flouride DDT, 5% dust or sodium flouride	1 oz. to 1 gal. water. Apply as "pinch" method or dust.	Apply as dip. Lindane and nicotine sulphat also may be used as roost paint
Sheep Tick and Lice	DDT 50% wettable powder	1 lb. to 25 gal. water as a dip.	
	Chlordane 50% wet- table powder Lindane (25% wettable powder)	Same as for DDT. Same as for Cattle Lice (Beef animals).	Spraying is best done durin, summer and fall months whil wool is short.
"Fleece" worms	Rotenone dipping powder (Same as for screw worm below)	Follow directions on con- tainer.	1000 10 0001 tr
Ticks (other than brown dog tick) (All animals except milk cows)	bDT, 50% wettable powder Lindane 25% wettable powder	Use 1 lb. DDT to 5 gal. water plus 1 oz. lindane to each 5 gal. water.	Treat about every 3 weeks during periods of heavy tick ac tivity. (May-June and Aug. Sept.)
	Toxaphene, 40% wet- table powder	Same as for Cattle Lice.	Follow company recommendations. (Do not use on young animals.)

Control of Livestock Pests-(continued)

PEST	MATERIAL	DOSAGE	REMARKS
Brown Dog Tick (Kennel and house- hold pest)	5% DDT or 5% chlor- dane powder 5% DDT or 2% chlor- dane household spray	Dust into cracks and crev- ices. Spray into cracks and crevices.	Use sparingly as needed. Dips or sprays containing rotenone may be used on animals. Do not apply to animals.
Screwworm (Watch out for localized breaks)	Smear No. 62 or new USDA formula. Smear No. 335. (Treat all wounds during the en- tire season)	Pack wood if necessary.	Northward movement of in- fested animals can cause out- breaks. See DDT sprays for suggestions as to spraying building to protect animals.
Hog Lice	DDT 50% wettable powder Lindane 25% wettable powder	on beef animals. Same as for control of lice on beef animals.	
Mange	Lindane, 25% wettable powder or Chlordane 50% wet- table powder	tablespoonfuls to each 5 gal. water.	Applied thoroughly as a single application may be sufficient. (U.S.D.A. Farmers' Bulletin No. 1085)
Fleas (Barns)	DDT, 50% wettable powder or 25% emulsion or chlordane 50% wettable powder	or 1 cupful of emulsion to each 2½ gal, water. (See discussion on fly control in buildings as some of ma-	Thoroughly spray walls and bedding of infested areas. One application usually sufficient. Sprays used to control lice on animals may be used but resi- dual strength will give longer protection.
Fleas (On animals) Dogs Cats	Rotenone	Same as for control of brown dog tick. Use .75 to 1.65% dust.	Rotenone and pyrethrum powd- er may also be used. Commercial dips may also be available. Follow directions.

(1) Do not use where milk is handled.

(2) Diazinon not recommended for use in dairy barns. "Dry" baits made with malathion, diazinon and L-13/59 are not recommended for use in homes or where food is handled.

(3) A pyrethrum emulsion concentrate mixture used as a spray in a chute offers some relief from several biting files. Information will be sent upon request. Also, home made rubbing devices are under study. They have proved effective under some conditions. Proper location is very important.

