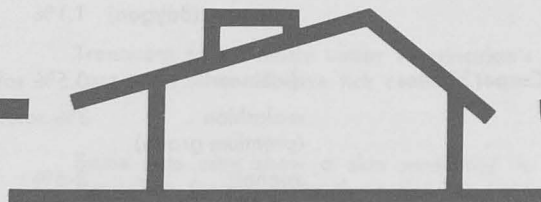
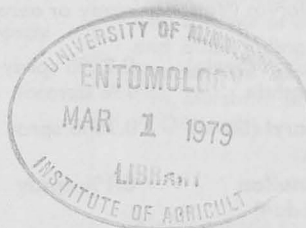


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Insecticide Suggestions To Control Household Insects In 1979



Extension Folder 412 — 1979
AGRICULTURAL EXTENSION SERVICE
UNIVERSITY OF MINNESOTA

Insecticide Suggestions To Control Household Insects In 1979

Do not use after 1979

Insect	Insecticide	Dosage	Remarks
Ants (indoors). (See also under pests of trees, shrubs, turf.)	propoxur (Baygon)	1.1% solution	} Apply to runways. Do not contaminate food or utensils. Diazinon at 1% and propoxur at 1.1% to be applied by PCO** only
	diazinon (Spectracide)	0.5% solution or emulsion	
	malathion (premium grade)	3% solution or emulsion	
	ronnel (Korlan)	1% emulsion	
Note: A treatment with diazinon on the outside walls and foundation, as described under boxelder bugs, may help keep ants from entering the house			
Bedbugs	malathion (premium grade)	1% to 3% spray	} Apply to springs and frames of beds and to cracks and crevices around doors, window casings, baseboards, etc.
	pyrethrins	0.2% spray	
	ronnel	1% spray	
Bees & Wasps	dichlorvos (Vapona)	spray or aerosol	} The No-pest strip in a loose plastic bag covering the nest or in a wall void provides excellent control of both wasps and bees.
	carbaryl (Sevin)	2.25% spray	
Boxelder bugs	resmethrin	1% aerosol	} Spray infested boxelder trees during late summer when bugs are small.
	carbaryl (Sevin)	0.15% spray	
	endosulfan (Thiodan)	0.1% spray	
Carpenter ants	diazinon	0.5-1%	} Apply <i>outside</i> to bugs as they gather. Diazinon at 1% to be applied by PCO** only.
	dichlorvos (Vapona)	0.5% emulsion	
	malathion	3%	
Carpet beetles	propoxur (Baygon)	1.1%	} Apply to backs of carpets, rugs, and pads. Spray or paint along baseboards. Pressurized spray cans may be used for treating clothing. Dust formulations may be applied to the floor before laying carpeting. Diazinon at 1% to be applied by PCO** only.
	diazinon	0.5% solution or emulsion	
	malathion (premium grade)	3% solution or emulsion	
Clothes moths	ronnel	3-5%	} Apply lightly to clothing.
	malathion (premium grade)	3% solution or emulsion	
	naphthalene or PDB (paradichlorobenzene) flakes, crystals		} Apply uniformly throughout clothing as it is packed for storage in tight chests or boxes.

* W.P. = wettable powder.

E.C. = emulsifiable concentrate.

** PCO = pest control operator.

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Insect	Insecticide	Dosage	Remarks
Clover mites propoxur (Baygon) dicofol (Kelthane) malathion diazinon	(For use outside the home to prevent mites from entering) propoxur (Baygon) dicofol (Kelthane) malathion diazinon	1.1% spray 0.06% spray 0.25% spray 0.5% spray 2% granular	Propoxur at 1.1% to be applied by PCO only. Apply thoroughly to foundations, walls, and to the lawn for at least 20 feet out from and all around the house. Use a drenching spray. As directed
Note: An 18- to 24-inch sod-free band immediately next to the house will help reduce the clover mite problem. Wipe up mites inside the home with an oily dustcloth or a vacuum cleaner. Also see Entomology Fact Sheet No. 15.			
Cockroaches (roaches, "water bugs")	diazinon Dursban malathion (premium grade) propoxur (Baygon) resmethrin ronnel (Korlan)	0.5% solution or spray 0.25 to 0.5% solution or spray 2% or 3% solution or spray 1% coarse aerosol or 2% bait 1% aerosol 1% to 2% spray	Apply with paintbrush or as "spot treatment" with sprayer or duster. Treat cracks, crevices, and other hiding places or runways. Do not contaminate food or utensils. Diazinon at 1%, Dursban, and Baygon to be applied by PCO** only.
Crickets	carbaryl chlorpyrifos (Dursban) diazinon malathion (premium grade) propoxur (Baygon)	2% to 5% bait .02% spray 0.5% spray 2% to 3% spray 1% coarse aerosol spray 2% bait	Along outside foundation walls. Along outside foundation walls. Apply as "spot treatment" to corners, baseboards, under cabinets, in closets, etc. Diazinon at 1% to be applied by PCO** only.
Note: A treatment with diazinon on the outside walls and foundation, as described under boxelder bugs, will help prevent crickets from entering the house.			
Fleas Dogs	Cythioate	30 mg./20 lb.	Treatment to be made under veterinarian's care only. Also will give tick control.
Fleas Cats dogs	carbaryl (Sevin) dichlorvos (Vapona) malathion (premium grade) methoxychlor rotenone	5% dust 9.3% collar on dogs 4.6% collar on cats 4% dust 1% dust 1% dust	Some cats may show a skin sensitivity to the collar. Do not make the collar too tight on the animal.
Fleas Infested kennels, beds, or other areas	propoxur (Baygon) carbaryl diazinon malathion (premium grade)	1.1% spray 5% dust 0.5% spray 2% or 3% spray	1.1% propoxur (Baygon) to be applied outdoors by PCO** only. 1% Diazinon to be applied by PCO** only.

** PCO = pest control operator.

Insect	Insecticide	Dosage	Remarks
Mosquitoes (outdoors) (continued)		Note: A combination of methoxychlor and malathion (both used at their regular rates) makes a good mosquito spray: Malathion gives a quick kill while methoxychlor provides longer lasting residual control.	
	<i>For use in a mist blower</i>		
	dichlorvos (Vapona)	23% E.C. — 4 gal. per 100 gal. water	Apply to mosquito resting places such as shrubbery, hedges, and under eaves. Apply 5-10 gal. of these mixtures per acre or ½-1 gal. per 4,000 sq. ft. Do not allow spray to contaminate food or feed crops or pastures. Do not use carbaryl when honeybees are known to be active in the area. Fenthion (Baytex) is very toxic to birds.
	fenthion (Baytex)	46% E.C. — 4.5 gal. per 100 gal. water	
	methoxychlor	25% E.C. — 10 gal. per 100 gal. water	
	malathion	57% E.C. — 2 gal per 100 gal. water	
	carbaryl	80% Sprayable — 10 lbs. per 100 gal. water	
	naled (Dibrom)	60% E.C. — ½ gal. per 100 gal. water	
	<i>For use in a fogger</i>		
	malathion	57% E.C. — 1 gal. per 25 gal. fuel oil	Apply to mosquito resting places such as shrubbery, hedges, and under eaves. Apply 5-10 pints of these mixtures per acre if E.C. is used and 2-5 pints per acre if technical material is used. Do not allow insecticide to contaminate food or feed crops or pastures. If the fog is directed too close to plants for too long a time or if the fogger is not operating properly, some plants may be burned. Dibrom is corrosive to fogging equipment. If a <i>thermal</i> fogger is used, the insecticide must be mixed with No. 1 fuel oil or diesel oil. Water may be used in a <i>nonthermal</i> fogger, but an E.C. must then be used as the insecticide. Fuel oil is the preferred carrier for both types of foggers.
		technical (95%) — ½ gal. per 25 gal. fuel oil	
	dichlorvos (Vapona)	23% E.C. — 1 gal. per 25 gal. fuel oil	
	naled (Dibrom)	14 lb. concentrate — 1½ pints per 25 gal. fuel oil	
	Pyrethrins	0.15% to 0.25% plus synergists	
<p>Note: Mosquito control in towns and cities should be an organized program based on treatment of breeding areas and must be approved by the Minnesota Department of Agriculture. For more detailed information on mosquito control, especially for community wide control, aerial application, larval control, and other insecticides, consult the Minnesota Department of Agriculture or the University of Minnesota bulletin entitled "Mosquito Control."</p>			
Powder-post beetles	pentachlorophenol	4% to 5% solution	Paint, spray, or dip to saturate wood.
Silverfish, firebrats	propoxur (Baygon)	1% solution	Apply to infested areas, corners in closets, behind radiators, around pipes. Diazinon at 1% and Baygon to be applied by PCO** only.
	diazinon	0.5 or 1% spray	
	malathion (premium grade)	3% spray	
	ronnel (Korlan)	1% spray	

Insect	Insecticide	Dosage	Remarks
Sowbugs	ronnel (Korlan)	1% spray	Along outside foundation walls.
	chlorpyrifos (Dursban)	0.02% spray	
	diazinon	2 or 5% granular	All have limited effectiveness as residuals.
	carbaryl (Sevin)	1% spray 4% dust	
	malathion	2-5%	
Stored-food pests (flour beetles, meal moths, larder beetles, etc.)	diazinon	0.5% solution	Find and destroy or refrigerate infested foods. Paint or spray insecticides on shelves, cracks, corners. Do not contaminate food or utensils. Keep susceptible food stored in tight glass, metal, or plastic containers. Store at low temperatures. Clean storage area thoroughly. See Entomology Fact Sheet 13, "Pantry Pests."
	malathion (premium grade)	2% solution	
Termites	Termite infestations usually require the services of an experienced pest-control operator. Consult Entomology Fact Sheet 6, "Are They Really Termites?"		
Ticks (brown dog tick, indoors)	propoxur (Baygon)	1.1% spray	For PCO** use only. For PCO** use only.
	carbaryl	1% spray	
(American dog tick, outdoors)	stirofos (Rabon)		Treat cracks and crevices so ticks contact insecticide. Apply thoroughly to roadsides, footpaths, and vegetation surrounding campsites and picnic areas.
	stirofos (Rabon, Gardona)	½% spray	
	toxaphene	1% spray, 5% dust	
(both species, on dogs)	carbaryl	5% dust	Rub dusts thoroughly into fur; apply sprays so coverage of animal is complete.
	coumaphos (Co-Ral)	½% dust, 1% pressurized spray	
	pyrethrins plus synergist	1.0 % spray	
	rotenone	4-5 % dust	
	trichlorfon (Dipterex)	1% dust	
	dichlorvos (Vapona)	9.3% collar	

Other publications in this series:

Extension Folder 413 — Insecticide Suggestions to Control Livestock and Poultry Pests.

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 in Field Crops.

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

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