

## ANIMAL INSECT CONTROL

Animal	Pest Problem	Insecticide Formulation	Method and Rate	Restrictions/Remarks	Minimum Days From Last Application to Slaughter
<b>SWINE</b>	<b>Sarcoptes Mange and Lice</b>	GardStar 40% EC, Tengard SFR (permethrin)	4 oz/25 gal water. Treats 50-100 head.	Repeat at 14 days. Thoroughly wet or dip animals. Mange-spray pens thoroughly.	0
		Atroban 11% EC (permethrin)	1 qt/50 gal water. Use 1 pt of spray per animal.	DO NOT spray food or water.	5
		Ivomec 1% Injection (ivermectin)	1 mL/75 lb body weight.	Administer subcutaneously only. An Ivomec 0.27% formulation is available for grower and feeder pigs.	18
		Dectomax Injectable Solution (1% doramectin)	1 mL/75 lb body weight.	Intramuscular injection.	24
		Prolate/Lintox-HD (11.75% phosmet)	Mix 1 qt/25 gal water.	DO NOT treat pigs less than 3 months old.	1
		Swine Gard Pour-on (10% permethrin)	Ready to use. Apply 3 mL per 100 lb of body weight up to a maximum of 15 mL. Pour across back of head and ears then apply down midline of neck and over shoulders.	DO NOT treat more often than every two weeks. For optimum control, two treatments 14 days apart may be required. Apply to swine 85 lb and over.	5
	<b>Demodex Mange</b>	No known treatments for swine.			
	<b>Lice Only</b>	Rabon 50% WP (tetrachlorvinphos)	Mix 4 lb/50 gal water or 1/2 lb/6 gal water.	Apply 1-2 qt per animal as a coarse spray. Wet animal entirely.	0
		Co-Ral Fly and Tick Spray (6.15% coumaphos)	Mix 5 oz per 4 gal water. Spray animal until runoff.	DO NOT apply more frequently than 10 days.	10
		Co-Ral Emulsifiable Livestock Insecticide (11.6% coumaphos)	Mix 2.5 oz per 4 gal water. Spray animal until runoff.		10
		Co-Ral (shaker can) (coumaphos)	1 oz/head.		0
		Atroban 11% EC (permethrin)	Apply 1/4-1/2 Tbsp.	Can be used on pigs less than 30 days old.	0
	Ectiban, Insectrin or Permethrin 0.25% D (permethrin)	1 oz/animal.		5	
	Rabon Dust (3% tetrachlorvinphos)	3-4 oz/animal	In severe infestations, apply to bedding. Apply 1 lb per 150 sq ft of bedding.	0	

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SWINE BARNs (not on animals)	House Flies and Flies around the premises	<b>Sanitation, Biological Control and Integrated Pest Management (IPM)</b>	Sanitation is critical to any fly control program in swine operations. IPM includes sanitation, insecticides (baits, contact insecticides, etc.), surveillance (monitoring and/or trapping) and biological control (conserving natural enemies and/or releases). Use insecticides judiciously to minimize impact on natural enemies and to prevent or delay insecticide resistance. Use a combination of management methods.	Waste (spilled feed, wet feed, manure and bedding) removal and management is the first line of defense in any filth fly management program. Prompt removal and disposal (such as spreading on pastures, use of lagoons, etc.) of waste will reduce filth fly breeding sites and break the house fly life cycle. Some producers have experienced reduced fly populations with weekly releases of parasitic wasps beginning in April or May. Releases should be made in dry areas out of traffic and in areas where flies reproduce. <b>Parasite and/or insecticide use are not a substitute for a good sanitation program.</b>
	Adult Flies	<b>Sprays</b>		
		Ravap EC (23% tetrachlorvinphos and 5.3% dichlorvos)	12 Tbsp/gal water.	Use 1 gal of diluted spray per 500-1,000 sq ft.
		Pounce 3.2 EC (permethrin)	4 oz/12.5 gal. Apply 1 gal/750 sq ft.	
		Rabon 50% WP (tetrachlorvinphos)	1/2 lb/3 gal water.	
		Atroban 11% EC (permethrin)	1 pt/10 gal water.	Use 1 gal diluted spray per 750-1,000 sq ft.
		Vapona Concentrate Insecticide (R) (40.2% dichlorvos)	2 oz/1.5 gal water (0.5% dilution). 5 oz/2 gal water (1.0% dilution).	Apply 0.5% dilution as a space spray mist to open air space at the rate of 1 qt/8,000 cu ft or as a coarse surface spray to indoor surfaces at the rate of 1 qt /1,000 sq ft. For the 1.0% dilution, apply as above but only half the total volume of mixture. DO NOT use this product in areas where animals have received a direct organophosphate application within 8 hours. If animals are present, ventilate treated area immediately following application. DO NOT contaminate water, feed or foodstuffs.
		Annihilator (0.02% deltamethrin)	Ready to use.	Wet surfaces where flies rest. DO NOT spray animals, humans, animal feed or water. DO NOT apply more than once per week.
		Grenade ER (9.7% lambda-cyhalothrin)	Mix 0.2 to 0.4 oz/gal water to make a 0.015% to 0.03% dilution.	Apply dilution to horizontal and overhead surfaces where flies rest. DO NOT make applications in areas where animals are present. Allow to dry before reintroducing animals or birds. DO NOT contaminate animal food, feed or water during application.
		Talstar, Bifenthrin I/T 7.9F, Optashield CS (7.9% bifenthrin)	Mix with water and apply 0.33 to 1.0 oz product per 1,000 sq. ft.	Target areas where flies rest such as ceilings, trusses, rafters, supports, walls, windows and vegetation.
		StandGuard 5.9 (5.9% gamma-cyhalothrin)	Mix 0.16 oz (5 mL)/gal of water.	Spray 1 gal of diluted spray to treat 500-1,000 sq ft fly resting surfaces.
		<b>Baits</b>		
		QuickBayt, Martin's Quick Draw and Bonanza Fly Bait (0.5% imidacloprid and 0.1% muscalure (z)-9-tricosene) Ready-to-Use Fly Bait	Scatter 6 oz of bait/1,000 sq ft around the outside and inaccessible areas of swine confinement facilities, or mix 1.5 oz bait/1 oz water, mix thoroughly, let stand for 15 minutes and paint on non-dusty fly resting areas inaccessible to animals.	Use around the outside animal housing structures. DO NOT allow bait to contact food or water. Can be used inside swine confinement buildings <b>ONLY</b> if used in bait stations. Bait stations must be placed at least 4 feet above ground level and in areas inaccessible to animals, pets or children.

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<b>SWINE BARNs</b> (not on animals)	<b>Adult Flies</b> (cont.)	<b>Baits</b>		
		QuickBayt Spot Spray (10% imidacloprid and 0.1% muscalure (z)-9-tricosene)	Mix 16 oz per gallon of water.	For use in and around swine confinement buildings. DO NOT apply on surfaces accessible to children or pets. DO NOT apply where animals can ingest product.
		Golden Malrin (1.1% methomyl and 0.049% (z)-9-tricosene)	Ready to use. Scatter 4 oz/500 sq ft of area where flies congregate, rest or feed, or use bait in any commercial bait station.	Use as a scatter bait only around the outside of animal housing areas or swine confinement buildings. Bait stations must be hung at least 4 ft above ground level. Scatter baits and bait stations must only be used in areas inaccessible to animals, pets or children.
		QuikStrike Fly Scatter Bait (0.5% dinotefuran and 0.04% (z)-9-tricosene)	Scatter 4 oz/500 sq ft of fly breeding area, or use bait in any commercial bait station.	Use as a scatter bait only around the outside of animal housing areas. Bait stations must be hung at least 4 ft from ground level. Scatter baits and bait stations must only be used in areas inaccessible to animals, pets or children.
		QuikStrike Fly Bait Spray (0.5% dinotefuran and 0.04% (z)-9-tricosene)	To spray on, mix 2 oz product with 16 oz of water to treat 250 sq ft. To paint on, mix 2 oz of product with 3 oz water to treat 250 sq ft.	Apply to fly resting areas such as walls, fences, window sills, posts, etc., typically 4 feet above the floor surface.
		Elector Bait (0.5% spinosad and 0.04% (z)-9-tricosene)	Scatter 12-16 oz of Elector Bait/2,000 sq ft. Elector Bait can also be used in bait stations or applied to hang boards/cards. Use 8-10 bait stations or hang boards/cards per 2,000 sq ft. See label for more detailed instructions on bait station and hang board/card use.	DO NOT allow Elector Bait to contact food, feedstuffs or water. When using Elector in bait stations, hang stations in areas inaccessible to children, livestock and pets. Elector Bait stations or hang cards must be located at least 4 feet above the ground.
	Zyrox Fly Granular bait (0.5% cyantraniliprole)	Ready-to-use granular fly bait. Apply from 3.2-6.4 oz granular bait per 1,000 sq ft. Depending upon application site, product can be scattered or placed in bait stations.	DO NOT place bait in areas accessible to food-producing animals or animals being grown for food. DO NOT place bait in areas accessible to children and pets. Bait stations must be used if bait is applied inside residential structures, commercial establishments, food processing plants, restaurants and animal housing units. DO NOT apply bait outdoors when raining.	
	<b>Fly Maggots</b> (fly breeding areas)	Neporex 2 SG (2% cyromazine)	<p><b>Spray:</b> Mix 1 lb Neporex 2 SG per gal of water. Apply as a coarse low-pressure spray on fly breeding sites with suitable spray equipment (hand-pressurized or power-operated sprayers). One gallon of finished solution will treat 200 sq ft. Treat manure surface and wet spots around feed and water troughs. Also apply 3 days after manure removal or when larvae are found.</p> <p><b>Scatter:</b> Apply 1 lb Neporex 2 SG per 200 sq ft. Apply after cleaning and prior to the installation of pigs on fly breeding sites where fly larvae are found.</p>	DO NOT apply directly to livestock or livestock feed. DO NOT feed treated manure to animals. Allow at least 1 day between last application and harvest. May be used with slatted floors to treat areas where manure and other refuse accumulate to create fly breeding sites.