

ANIMAL INSECT CONTROL

Animal	Pest Problem	Insecticide Formulation	Method and Rate	Restrictions/Remarks	Minimum Days From Last Application to Slaughter
BEEF CATTLE	Cattle Grub (Also controls lice, some reduction of horn flies.)	Pour-Ons Cydectin 0.5% pour-on (moxidectin)	5 mL/110 lb body weight.	Pour along mid-line of back.	0
		Systemics for grub control should be applied before Oct. 15 in Arkansas. Treatment later than Oct. 15 may cause toxic reactions in cattle from dying grubs.	Ivermectin 0.5% pour-on (Ivomec), generics available	Pour on 1 mL/22 lb body weight. Body weight 5 mL/110 lb body weight.	Pour along mid-line of back.
		Dectomax pour-on (doramectin)	1 mL/22 lb body weight.	Pour along mid-line of back.	45
	Proper timing of treatment is important. For most effective results, cattle should be treated as soon as possible after heel fly activity ceases. Heel fly activity ceases in Arkansas anytime after Aug. 1.	Injections Ivermectin 1% injection, generics available	1 mL/110 lb body weight.	Subcutaneous injection	48
		Dectomax injection (doramectin)	1 mL/110 lb body weight.	Subcutaneous injection.	35
		Cydectin injection (moxidectin)	1 mL/110 lb body weight.	Subcutaneous injection.	21
	Horn Flies, Lice (Aids in control of face flies)	Dust Bags coumaphos 1% livestock dust	Dust bag treatment; self-treatment. No mixing necessary.	Do not contaminate feed or water.	0
		Permethrin (Permethrin and others) 0.25% D	Dust bag treatment; self-treatment. No mixing necessary.	Dust bags have shown an indication of good lice control when left in place during winter months. Install in gates, doorways, loafing areas, etc.	0
		ProZap Dust'R or Rabon 3% Dust (tetrachlorvinphos)	Dust bag treatment; self-treatment. No mixing necessary.		0
		Python Dust (0.075% ζ-cypermethrin and 0.150% piperonyl butoxide)	Dust bag treatment; self-treatment. Read-to-use dust.	Do not use Python dust if currently using ear tags containing cypermethrin or ζ-cypermethrin.	0
Rabon 3% Livestock Dust (tetrachlorvinphos)		Dust bag treatment; self-treatment. Read-to-use dust.	Dust bags have shown an indication of good lice control when left in place during winter months. Install in gates, doorways, loafing areas, etc.	0	
Several different dusts can be purchased and hand-sprinkled on cattle. Don't use these in dust bags unless the label indicates you can do so.					

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BEEF CATTLE	Horn Flies, Lice (cont.) (Aids in control of face flies)	Backrubbers				
		Permethrin II, Martin's permethrin, Durvet permethrin, Insectrin, Prozap X, Permethrin 10 (permethrin)	Backrubber treatment. Add 1 qt to 20 gal oil. Apply 1 gal solution/20 ft cable to saturate backrubber.	Backrubbers help prevent lice infestations. Install cable in gates, doorways, loafing areas, etc., at first sign of pest. Do not use motor oil. Use only No. 2 oil or diesel oil. (Mineral oils are a little less irritating than fuel oils.)	0	
		Co-Ral ELI (11.6% coumaphos EC) or Co-Ral Fly and Tick Spray (6.15% coumaphos)	Use 9 3/4 oz/gallon of fuel oil. Apply 1 gal solution per 20 ft cable to saturate backrubber.		0	
		Ravap EC (23% tetrachlorvinphos and 5.3% dichlorvos)	Backrubber treatment. Use 1 qt of Ravap in 7 gal of No. 2 diesel oil. Apply 1 gal of mixed solution/20 ft cable to saturate backrubber.		0	
		Ectiban, Hard Hitter, Insectaban or Insectrin 5.7% EC (permethrin)	1 qt/10 gal diesel oil.		0	
	Prolate/Lintox HD (11.75% phosmet)	Use 1 pt/6.25 gal of fuel oil. Apply solution to backrubber.	Do not treat sick, stressed or convalescent animals or animals less than 3 months of age. Phosmet is a cholinesterase inhibitor. Consult veterinarian at first sign of adverse reaction.	3		
	Horn Flies, Face Flies, Biting and Sucking Lice	Pour-Ons				
		Cylence (cyfluthrin 1%)	Ready to use in dispenser.	Use 4-12 mL depending on weight of animal. See label.	0	
		Brute (permethrin 10%)	Ready to use in dispenser.	Also aids in control of other flies.	0	
		Boss (permethrin 5%)	Ready to use.	Pour correct dose on back and down the face.	0	
Permethrin 1% pour-on		Ready to use.	Pour correct dose on back and down the face.	0		
Synergized permethrin pour-on (permethrin and piperonyl butoxide), Permethrin CDS, Martin's Fly Ban, Ultra Boss, Synergized Delice and generic pour-ons		Ready to use.	Pour correct dose on back and down the face.	0		
Ultra Saber Pour-on and Cyonara Plus Pour-on (λ-cyhalothrin and piperonyl butoxide)	Ready to use.	Pour correct dose down the backline at rates specified on label. DO NOT APPLY TO FACE OF CATTLE.	0			
Standguard Pour-on (γ-cyhalothrin)	Ready to use.	Pour correct dose down the backline at rates specified on label. DO NOT APPLY TO FACE OF CATTLE.	0			

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BEEF CATTLE	Horn Flies, Face Flies, Biting and Sucking Lice	Pour-Ons				
		Clean-Up Pour-on (5.0% diflubenzuron and 5.0% permethrin)	Apply 2.0 mL/100 lb of body weight along back line and down face. Do not apply more than 30 mL to any animal.		0	
		Saber Pour-on and Cyonara Lambda Pour-on (1% λ-cyhalothrin)	Apply 10 mL to animals less than 600 lb or 15 mL to animals over 600 lb. Pour along the backline of the animal.	Do not apply more than four times within a six-month period. Do not apply more often than every two weeks. Not recommended for veal calves. Do not apply to dry or lactating dairy cows. Do not apply to the face of beef cattle or calves.	0	
		Ivomec, ivermectin, bimectin pour-on (0.5% ivermectin)	1 mL/22 lb body weight.	Apply along the topline of the back from withers to tailhead; not labeled to control face flies.	48	
		Cydectin (0.5% moxidectin)	1 mL/22 lb body weight.	Apply along the topline from the withers to the tailhead; not labeled to control face flies. Provides 7 days of persistent activity against horn flies.	0	
		Dectomax pour-on (0.5% doramectin)	1 mL/22 lb body weight.	Apply along the topline of the back from withers to tailhead; not labeled to control face flies; do not use on calves to be processed for veal. Provides 7 days of persistent activity against horn flies.	45	
		Endectocides		Endectocides (ivermectin, moxidectin and doramectin) are used as part of an integrated control program for internal and external parasite management. For optimal horn fly control over an extended period, use other methods and chemistries.		
		Horn Flies, Face Flies	Oral Larvicides			
		Rabon Oral Larvicide (tetrachlorvinphos)	Read label directions carefully. Use salt block or pre-mixed mineral as directed on the label.	Start feeding early in spring before flies appear. Oral larvicides pass through digestive system and kill fly larvae in the manure. For horn, face, stable and house fly control.	0	
		Altosid IGR (methoprene)	Read label directions carefully.	For horn fly control.	0	
ClariFly Larvicide (0.67% diflubenzuron)	Read label directions carefully.	For house, stable, horn and face fly control.	0			

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BEEF CATTLE	Horn Flies, Face Flies (cont.)	Ear Tags A number of brand names of insecticide-impregnated ear tags are available for purchase.	Use number of tags recommended on label. Alternating the use of pyrethroid, organophosphate, organochlorine and macrocyclic lactone ear tags will minimize resistance/tolerance issues. Ear tags are primarily used to control horn flies and ear ticks; however, some ear tags will aid in controlling face flies.	If ear tags within the same insecticide class have been used in the same herd two or more consecutive years, substantial reduction in control effectiveness is possible. Revert to use of dusts, sprays or ear tags in a different class.	0
		Horn Flies, Lice, Ticks	Dips Prolate/Lintox-HD (phosmet 11.75%)	Follow label directions.	Do not treat sick, stressed or convalescent animals or animals less than 3 months of age. Phosmet is a cholinesterase inhibitor. Consult veterinarian at first sign of adverse reaction.
	(Aids in control of face flies.)	Sprays Co-Ral Fly and Tick Spray (6.15% coumaphos)	For horn flies and lice, use 5 oz/4 gal of water; for ticks, use 10 oz/4 gal of water.	One application of these sprays may be sufficient for lice. If live lice are present after 2 weeks, apply a second treatment.	0
		Co-Ral ELI (coumaphos 11.6%)	For horn flies and lice, use 2.5 oz/4 gal of water; for ticks use 5 oz/4 gal of water.		0
		GardStar 40% EC, Tengard SFR (permethrin)	4 oz/2.5 gal of water. Low-pressure spray. 4 oz/25 gal of water. High-pressure spray.	Spray to point of runoff.	0
		Rabon (tetrachlorvinphos)	Mix as directed on label for specific pest. Use between 1/2 and 1 gal of spray per animal. Spray face to aid in face fly control.		0
		Permethrin II 10% EC, Martin's permethrin, Durvet permethrin, Insectrin, Prozap X, Permethrin 10 (permethrin)	Use 1 qt in 100-200 gal water. Re-treat after 3-5 weeks. Spray to runoff or fog using 1 gal spray mix per head.		14
		Atroban, Expar 11% EC (permethrin)	1 pt 11% EC/50 gal water for horn fly; 1 pt/25 gal for lice. Use 1 qt spray per head for horn fly and 2 qt spray for lice.		0
		Atroban Delice 1% (permethrin)	Ready-to-use pour-on; use as directed.		0
		Ravap EC (23% tetrachlorvinphos and 5.3% dichlorvos)	Use 1 pt Ravap/10 gal water for horn flies and lice or 1 pt/6 gal water for ticks; then use 1/2-1 gal of spray mixture per animal.		0
Ectiban 5.7% EC (permethrin)	1 qt/25 gal water. Spray to thorough wetting.		0		
Elector (2.46% spinosad)	Use 10 oz Elector/10 gal of water. Apply 1-2 qt of coarse spray per animal or until runoff.	Do not apply more often than every 7 days. Do not make more than 5 consecutive treatments with Elector.			

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BEEF CATTLE	Lice, Internal Parasites	Injectables			
		Ivomec injection (1% ivermectin)	1 mL/110 lb body weight. Follow label directions.	Subcutaneous injection.	35
		Cydectin injection (moxidectin)	1 mL/110 lb body weight.	Subcutaneous injection.	21
		Dectomax injection (doramectin)	1mL/110 lb body weight.	Subcutaneous injection.	35
		Pour-Ons			
		Ivomec, ivermectin, bimectin (0.5% ivermectin)	1 mL/22 lb body weight.	Apply along the topline of the back from withers to tailhead.	45
	Cydectin pour-on (moxidectin)	1 mL/22 lb body weight.	Apply along topline of the back from withers to tailhead.	0	
	Dectomax pour-on (0.5% doramectin)	1 mL/22 lb body weight.	Apply along topline of the back from withers to tailhead. Do not use on calves to be processed for veal.	45	
	Lice and Ticks only	Taktic 12.5% EC (amitraz)	Use 1 pt can of Taktic 12.5% EC in 50 gal water. Use up to 2 gal spray per animal. Spray to runoff. For lice, a second treatment 10-14 days later is recommended.	Use solution within 6 hours of mixing.	0
	Ear Ticks	Catron IV (permethrin)	Use as directed on label.	Ear tags will not control lone star tick.	0
	Insecticide-impregnated ear tags	Use as directed on label.		see specific label	
Screwworms (maggots in wounds)	Catron IV (permethrin)	Ready to use. Spray wounds thoroughly.		0	

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INSECTICIDE EAR TAGS 2012

Organophosphate Tags		
Trade Name	Market Source	Active Ingredient
Corathon	Bayer Corporation Animal Health	coumaphos (2) + diazinon (2)
Co-Ral Plus	Bayer Corporation Animal Health	coumaphos (2) + diazinon (2)
Dominator	Schering-Plough Animal Health	pirimiphos-methyl (2)
Optimizer	Y-TEX Corp.	diazinon (2)
Patriot	KMG-Bernuth, Inc.	diazinon (2)
Warrior	Y-TEX Corp.	diazinon (2) + chlorpyrifos (2)
Terminator II	KMG-Bernuth, Inc.	diazinon (2)

Synthetic Pyrethroid Tags		
Trade Name	Market Source	Active Ingredient
CyGuard (6)	Bayer Corporation Animal Health	β -cyfluthrin (1)
Cylence Ultra (6)	Bayer Corporation Animal Health	β -cyfluthrin (1) + piperonyl butoxide (5)
Gard Star Plus (6)	Y-TEX Corp.	permethrin (1)
Python (6)	Y-TEX Corp.	ζ -cypermethrin (1), piperonyl butoxide (5)
Python Magnum (6)	Y-TEX Corp.	ζ -cypermethrin (1) + piperonyl butoxide (5)
Saber Extra	Schering-Plough Animal Health	λ -cyhalothrin (1) + piperonyl butoxide (5)

Organochlorine (cyclodiene) Tags		
Trade Name	Market Source	Active Ingredient
Avenger (6)	KMG-Bernuth, Inc.	endosulfan (3)

Combination Tags		
Trade Name	Market Source	Active Ingredient
Double Barrel VP	Schering-Plough Animal Health	λ -cyhalothrin (1) + primiphos methyl (2)

Macrocyclic Lactone Tags		
Trade Name	Market Source	Active Ingredient
XP 820	Y-TEX Corp.	abamectin (4) + piperonyl butoxide (5)

1 = synthetic pyrethroid, 2 = organophosphate, 3 = organochlorine (cyclodiene), 4 = macrocyclic lactone, 5 = synergist, 6 = labeled for use on lactating dairy cattle
Carefully read label concerning the number of tags to apply (1 or 2 per animal) and any precautions concerning calves and lactating dairy cattle.