

LOUISIANA RECOMMENDATIONS FOR CONTROL OF INSECTS ON HORSES

Pest	Insecticides	Rates/Mixing/Dilution
Flies and Mosquitoes	Co-Ral (6.15%)	Mix 5 ozs. in 4 gals. water. Spray thoroughly. Do not make applications less than 10 days apart.
	Python (0.075%) Dust	Apply up to 2 ozs. evenly per animal, and not more than every three days.
	<p>Many commercial products containing the following common name chemicals are available as concentrates and ready-to-use diluted formulations for either spray or wipe-on:</p> <p>Pyrethrins + PBO (synergist) Permethrin Permethrin + Pyrethrins Resmethrin Resmethrin + Pyrethrins + PBO Cypermethrin Cypermethrin + Pyrethrins + PBO</p> <p>Refer to labels of concentrates for mixing instructions. Refer to all product labels for minimum treatment intervals. Some ready-to-use products may also contain repellants such as dipropyl isocinchomeronate (MGK 326) and/or butoxypolypropylene (Stabilene).</p>	
Lice and Ticks	Co-Ral (6.15%)	Mix 5 ozs. per 4 gals. water for lice and 10 ozs. per 4 gals. water for ticks. Do not make applications less than 10 days apart.
	Python (0.075%) Dust	Apply up to 2 oz. evenly per animal, and not more than every three days. For ear ticks, apply 1/3 oz. (1 Tbs.) per ear.
	<p>The following are common name insecticides sold under numerous trade names. Refer to labels for mixing and treatment instructions.</p> <p>Permethrin Resmethrin (Ticks only) Cypermethrin</p>	
Bots	<p>Use worming products for internal parasites. Refer to labels for application instructions: Ivermectin (sold as Zimectrin, Eqvalan, and Phoenectrin), Moxidectin (sold as Quest)</p>	

LOUISIANA RECOMMENDATIONS FOR CONTROL OF LIVESTOCK PESTS

The most important pests of livestock in Louisiana are horse flies, horn flies, mosquitoes, lice, ticks, cattle grubs, mites, and houseflies. These pests are responsible for large losses to the livestock industry of Louisiana.

Extreme care should be exercised when applying insecticides on livestock. Observe the following safety precautions:

SAFETY PRECAUTIONS

1. DO NOT TREAT SICK ANIMALS.
 2. DO NOT USE MORE INSECTICIDE THAN IS RECOMMENDED.
 3. SINCE SOME OF THE INSECTICIDES ARE SECRETED IN MILK OR STORED IN BODY FAT, IT IS HIGHLY IMPORTANT TO OBSERVE ALL PRECAUTIONS AND CONFORM TO THE REGULATIONS REGARDING THE MINIMUM TIME ALLOWED FROM LAST TREATMENT TO SLAUGHTER OR THE FRESHENING INTERVAL FOR DAIRY CATTLE.
 4. DO NOT USE INSECTICIDE FORMULATIONS FOR LIVESTOCK TREATMENT UNLESS THIS USE IS LISTED ON THE CONTAINER LABEL.
 5. DO NOT USE ANY INSECTICIDE IN A DIP UNLESS THIS USE IS RECOMMENDED.
 6. WHEN USING AN EMULSIFIABLE CONCENTRATE BE SURE IT MIXES UNIFORMLY WITH THE WATER. IF AN OIL LAYER FORMS, DO NOT USE IT.
 7. WHEN SELECTING AN INSECTICIDE FOR USE, READ THE PRECAUTIONS LISTED IN THIS GUIDE AND THE PRECAUTIONS LISTED ON THE LABEL OF THE CONTAINER.
 8. WHEN APPLYING INSECTICIDES TO LIVESTOCK OR AROUND BARN, DO NOT CONTAMINATE FEED OR FOOD AND WATER TROUGHS OR ALLOW RUNOFF INTO STREAMS.
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LOUISIANA RECOMMENDATIONS FOR CONTROL OF LIVESTOCK PESTS (cont'd)

Animal and Pest	Insecticides	To Make		Minimum Days Treatment to Slaughter	Insecticide Use Precautions
		50 gals	3 gals		
LACTATING DAIRY CATTLE					Beef and Dairy Cattle
<u>Horn Flies</u>					
<u>Sprays</u>	Permethrin	Many formulations. Refer to labels.		0	Amitraz: For dairy cattle, no milk withholding period or discard time. Do not treat cattle in stress. Spray to wet and runoff.
	Ravap (23% + 5.7%)	1 qt.	2 ozs.	0	
<u>Backrubbers</u>	Co-Ral (6.15%) (1% oil solution)	1 qt./3 gal. diesel fuel		0	Co-Ral 6.15%: Do not apply at rates above 1 qt. per 50 gals. water to lactating or non-lactating dairy cattle within 14 days of freshening. Do not make applications within 10 days apart. Do not make more than 6 applications per year. Spray to wet and run-off.
	Ravap (1% + 0.25% oil solution)	1 pt./3 gals. diesel fuel		0	
	Permethrin (0.1% oil solution)	Many formulations. Refer to labels.		0	
<u>Dusts</u> (ready-to-use)	1% Co-Ral dust Permethrin Dust 0.075% Python dust	Use about 10 lbs. of dust per bag. Hang so bottom of bag is 30-36 inches above ground.		0	Co-Ral 11.6%: Restricted use insecticide. Do not apply in conjunction with pyrethroid or other organic phosphate insecticides. Repeat applications as necessary. Do not apply at rates above 2 ozs. per 3 gals. water to lactating or non-lactating dairy cattle within 14 days of freshening. Spray to wet and run-off.
<u>Ear Tags</u>	Python and Python Magnum(10% zetacypermethrin + 20% PBO) Cylence Ultra (8% beta-cyfluthrin + 20% PBO)	Remove ear tags at end of fly season. If fly control with ear tags is lost, remove ear tags and use alternate recommended treatment.		0	
<u>Pour-ons</u> (Ready-to-use)	Cylence	Apply down back line: 4 ml. per 400 lbs of body weight, 12 mls. for animals over 800 lbs.		0	Co-Ral 42%: Restricted use insecticide. Not labeled for lactating dairy cattle. As a dip treatment, do not make applications more than twice a year and do not make applications less than 10 days apart.
	Eprinex or Cydectin	Apply 1 ml. per 22 lbs. of body weight along back.		0	
	Permethrin Pour-ons	Many formulations. Refer to labels.		0	
*Horse flies * Stable flies and *Mosquitoes * <u>Sprays</u>	Pyrethins + Synergist (1% + 10% EC)	2.5 gals	0.25 pt (spray)	0	Cydectin: Also controls certain internal parasites. Do not apply to areas of the skin with lesions, scabs or caked mud/manure. For dairy cattle, no milk withholding or discard time. Cylence: Do not apply more than every three weeks.
	Pyrethrins + Synergist (0.1 + 1.0% oil solution)	Apply 1-2 qt. per animal; apply every 2-3 days		0	
	Permethrin EC's	Apply 1-2 ozs. per animal daily as a mist.		0	
		Many formulations; refer to labels.		0	

* Effective control of these pests with insecticides is difficult to achieve and multiple applications may be required.

LOUISIANA RECOMMENDATIONS FOR CONTROL OF LIVESTOCK PESTS (cont'd)

Animal and Pest	Insecticides	To Make		Minimum Days Treatment to Slaughter	Precautions
		50 gals	3 gals		
LACTATING DAIRY CATTLE (cont'd)					
Ticks	Ravap (23% + 5.7%)	1 qt	2 ozs	0	Dectomax: Also controls certain internal parasites. Do not apply to areas of the skin with lesions, scabs or caked mud/manure.
<u>Sprays</u>	Amitraz (Taktic) 12.5% (other amitraz formulations available)	1 pt	1 oz	0	
<u>Ear Tags</u> (ear ticks only)	Python (zetacypermethrin 10% + PBO 20%) Cylence Ultra (8% beta-cyfluthrin + 20% PBO)	Attach 2 ear tags to all animals in the herd.		0	
Lice	Permethrin	Many formulations. Refer to labels.		0	Eprinex: Also controls certain internal parasites. No milk withholding period and no milk discard. Do not apply to areas of hide with lesions, scabs, or caked mud/manure.
<u>Sprays</u>	Ravap (23% + 5.7%)	1 qt	2 ozs	0	
	Co-Ral (6.15%)	1 qt	2 ozs	0	Ivomec: Also controls certain internal parasites. Do not apply to areas of the skin with lesions, scabs, or caked mud/manure. Do not apply to wet hide/hair or within 6 hours of rain.
	Amitraz (Taktic) 12.5% (other amitraz formulations available)	1 pt	1 oz	0	
<u>Pour-ons</u> (Ready-to-use)	Permethrin Pour-on	Many formulations; refer to labels.		0	
	Cylence	Apply down back line: 8 mls per 400 lbs of body weight, 24 mls for animals over 800 lbs		0	Lintox-HD: Do not treat cattle younger than 3 months old.
	Eprinex or Cydectin	Apply 1 ml per 22 lbs of body weight along back.		0	
Face Flies	1% or 3% Rabon	Use about 10 lbs of dust per bag. Hang so bottom of bag is 30-36 inches above ground.		0	Python Dust: For direct application do not apply more than every three days.
<u>Dusts</u>	Permethrin dust			0	
Cattle grubs	Eprinex or Cydectin	Apply 1 ml per 22 lbs of body weight along back.		0	Rabon: Not labeled for dairy cattle. On beef cattle, apply 0.5 to 1.0 gal. spray solution per animal.
<u>Pour-on</u>					
Mange mites	Amitraz (Taktic) 12.5% (other amitraz formulations available)	1 pt	1 oz	0	Ravap: Do not treat more than once every 10 days. Do not treat calves under 6 months of age. Do not treat Brahman or Brahman-crossed cattle with Ravap. Spray cattle with 0.5 to 1.0 gal diluted spray per animal. For dairy cattle no milk, discard is required. Spray dairy cattle with 0.5 gal. diluted spray per animal.
<u>Spray</u>	Permethrin EC	Many formulations. Refer to labels.			

LOUISIANA RECOMMENDATIONS FOR CONTROL OF LIVESTOCK PESTS (cont'd)

Animal and Pest	Insecticides	To Make		Minimum Days Treatment to Slaughter	Precautions
		50 gals	3 gals		
<u>BEEF CATTLE:</u>					
Ticks <u>Sprays</u>	Rabon (50% WP)	4 lbs	4 oz.	0	<u>Pyrethrins:</u> none.
	Ravap (23% + 5.7% EC)	1 qt.	2 ozs.	0	<u>Permethrin:</u> Do not treat more than once every two weeks. For EC solutions spray to wet and run-off.
	Amitraz (Taktic 12.5%) (other amitraz formulations available)	1 pt	1 oz.	0	
	Co-Ral (42%) DIP	1- 2 pts.		0	<u>Saber:</u> Do not treat more than once every two weeks or more than four times within a six month period.
	Co-Ral (6.1%)	1 gal	8 ozs.	0	
	Co-Ral (11.6%)	0.5 gal	4 ozs.	0	
<u>Ear Tags</u> (Ear ticks only)	Apply 1 tag in each ear				
	<u>Brand Name</u>	<u>Formulation</u>			
	Avenger	30% endosulfan		0	
	Optimizer	20% diazinon		0	
	X-Terminator	20% diazinon		0	
	Patriot	40% diazinon		0	
	Co-Ral Plus	20% diazinon + 20% coumaphos		0	
	Dominator	20% pirimiphos-methyl		0	
	Cylence Ultra	8% beta-Cyfluthrin + 20% PBO		0	
	Saber Extra	10% Lambdacyhalothrin + 13% PBO		0	
	Python	10% Zetacypermethrin + 20% PBO		0	
Lice <u>Sprays</u>	Co-Ral (6.1% EC)	2 qts.	4 ozs.	0	
	Co-Ral (11.6% EC)	1 qt.	2 ozs.	0	
	Ravap (23% + 5.7%)	2.6 qts.	5 ozs.	0	
	Rabon 50%	2.66 lbs.	2.5 ozs.	0	
	Amitraz (12.5%) Taktic (other amitraz formulations available)	1 pt.	1 oz.	0	
	<u>Pour-ons</u> (Ready-to-use)	Ivomec 0.5% (and other ivermectin products)	Apply 1 ml. per 22 lbs. of body weight.		48
	Dectomax	Apply 1 ml. per 22 lbs. of body weight.		45	
	Cylence	Apply down back line 8 mls. per 400 lbs. per body weight; 24 mls. for animals over 800 lbs.		0	
	Saber	Apply down back line, 10 mls. per head for cattle less than 600 lbs., 15 mls. per head for cattle larger than 600 lbs.		0	
	Eprinex or Cydectin	Apply 1 ml. per 22 lbs. of body weight along back.		0/0	
	Permethrin Pour-ons	Many formulations; refer to labels.		0	

LOUISIANA RECOMMENDATIONS FOR CONTROL OF LIVESTOCK PESTS (cont'd)

Animal and Pest	Insecticides	To Make		Minimum Days Treatment to Slaughter	Precautions
		50 gals	3 gals		
<u>BEEF CATTLE: (cont'd)</u>					
Cattle grubs <u>Pour-ons</u>	Ivomec (0.5%) (and other ivermectin products)	Apply 1 ml. per 22 lbs. of body weight down back.		48	
	Eprinex	Apply 1 ml. per 22 lbs. of body weight down back.		0	
	Dectomax (0.5%)	Apply 1 ml. per 22 lbs. of body weight down back.		45	
	Cydectin	Apply 1 ml. per 22 lbs. of body weight down back.		0	
*Horse flies *Stable flies *Mosquitoes <u>Sprays</u>	Pyrethrins + Synergist (1% + 10% EC)	2.5 gals.	1.25 pts.	0	
		Apply 1-2 qts. per animal as a wet spray every 2-3 days.			
	Pyrethrins + Synergist (0.1% + 1.0% oil solution)	1-2 fl ozs. per animal as a mist spray daily.		0	
	Permethrin EC's	Many formulations; refer to labels.		0	
Horn flies <u>Sprays</u>	Co-Ral (6.1%)	2 qts.	4 ozs.	0	
	Co-Ral (11.6%)	1 qt.	2 ozs.	0	
	Rabon (50% WP)	2.66 lbs.	2.5 ozs.	0	
	Ravap (23% + 5.7%)	2.6 qts.	5 ozs.	0	
	Permethrin EC's	Many formulations; refer to labels.		0	
<u>Pour-ons</u> (Ready-to-use)	Dectomax	Apply 1 ml. per 22 lbs. of body weight down back.		45	
	Ivomec (0.5%) and other ivermectins	Apply 1 ml. per 22 lbs. of body weight.		48	
	Cylence	Apply down back line, 4 mls. per 400 lbs. of body		0	
	Saber	Apply down back line, 10 mls. per head for cattle less than 600 lbs, 15 mls. per head for cattle larger than 600 lbs.		0	
	Permethrin Pour-ons	Many formulations; refer to labels.		0	

* Effective control of these pests with insecticides is difficult to achieve and multiple applications may be required.

LOUISIANA RECOMMENDATIONS FOR CONTROL OF LIVESTOCK PESTS (cont'd)

Animal and Pest	Insecticides	To Make		Minimum Days Treatment to Slaughter	Precautions
		50 gals	3 gals		
<u>BEEF CATTLE: (cont'd)</u>					
Horn flies					
<p><u>Ear Tags</u></p> <p>All ear tags will provide approximately 10 weeks of control for susceptible flies. For resistant horn flies, tags with an asterisk (*) are more likely to give satisfactory control.</p>	<u>Organophosphate Tags</u>				<p><u>Ear Tag Instructions:</u></p> <p>Treat all adult animals as per label instructions. Treatment of nursing calves not required if cows are treated. Remove tags at end of fly season or if fly populations exceed the economic threshold.</p>
		X-Terminator (20% diazinon)		0	
		Optimizer (20% diazinon)		0	
		*Patriot (40% diazinon)		0	
		Co-Ral Plus (20% coumaphos + 20% diazinon)		0	
		*Warrior (30% diazinon + 10% chlorpyrifos)		0	
		Dominator (20% pirimphos-methyl)		0	
		<u>Pyrethroid Tags</u>			
		Python (zetacypermethrin 10% + PBO 20%)		0	
		Python Magnum (zetacypermethrin 10% + PBO 20%)		0	
		Cylence Ultra (beta-Cyfluthrin 8% + 20% PBO)		0	
		Saber Extra (lamdacyhalothrin 10% + PBO 13%)		0	
		<u>Chlorinated hydrocarbon (Cyclodiene) Tags</u>			
		Avenger (endosulfan 30%)		0	
	<u>Backrubbers</u>	Co-Ral (11.6%)	29 ozs./3 gals. diesel fuel	0	
Co-Ral (6.1%) (1% oil solution)		1 qt./3 gals. diesel fuel	0		
Ravap (1% + 0.25% oil solution)		1 pt./3 gals. diesel fuel	0		
Permethrin (0.1% oil solution)		Refer to labels.	0		
Lintox HD (2% oil solution)		Refer to labels.	3		
<u>Dust Bags</u>		Co-Ral 1% dust		0	
		Permethrin Dust		0	
	Python 0.075% dust		0		
	Rabon 3% dust		0		
Mange mites	Dectomax	Apply 1 ml. per 22 lbs. of body weight down back.	45		
	Co-Ral (42%) <u>DIP</u>	2.5 pts./50 gals. as a dip	0		
	Eprinex 5 mgs./mls.	Apply 1 ml. per 22 lbs. of body weight down back.	0		
	Ivomec (0.5%) and other ivermectins	Apply 1 ml. per 22 lbs of body weight down back.	48		
	Amitraz 12.5% (Tactic) (other amitraz formulations available)	1 pt. 1 oz.	0		
	Cyductin	Apply 1 ml per 22 lbs. of body weight down back.	45		
Face flies (for use in dust bags)	Python dust	Use about 10 lbs. of dust per bag. Hang so bottom of bag is 30-36 inches above ground.	0		
	Permethrin dust		0		
	1% Co-Ral dust		0		

LOUISIANA RECOMMENDATIONS FOR CONTROL OF LIVESTOCK PESTS (cont'd)

Animal and Pest	Insecticides	To Make		Minimum Days Treatment to Slaughter	Precautions
		50 gals	3 gals		
<u>SHEEP AND GOATS:</u>					
Keds					<u>Sheep and Goats Limitations</u> <u>Python:</u> Do not apply more than every three days.
Lice	Python dust (0.075%)	2 ozs. per animal, evenly		0	
Ticks	Permethrin	Many formulations; refer to labels.		0	
<u>HOGS:</u>					
Lice	Co-Ral (6.15% WP)	2 qts.	4 ozs.	0	<u>Hog Limitations</u> <u>Co-Ral:</u> Do not make applications less than 10 days apart, and do not treat more than 6 times a year. Spray to wet and run-off. <u>Permethrin:</u> Do not apply more than every two weeks. Spray to wet and run-off. <u>Ivermectin 1% Injectable:</u> Also controls certain other internal parasites. <u>Amitraz:</u> Treat animals no more than four times per year. Spray to wet and run-off. Two applications at 7-10 day intervals for mites and 10-14 days for lice. Do not apply within 3 days of slaughter.
	Co-Ral 1% Dust	1 oz per animal, evenly			
	Permethrin (spray)	Numerous formulations; refer to labels.		5	
	Taktic (12.5% Amitraz) (other Amitraz formulations available)	2 qts.	1.5 ozs.		
Mange mites	Permethrin	Numerous formulations; refer to labels.		5	
	Taktic (12.5% Amitraz) (other Amitraz formulations available)	2 qts.	1.5 ozs.		
Lice	Ivermectin 1%	Inject 1 ml per 75 lbs body weight			
Mange mites	(Injectable Ivomec)	(Subcutaneous injection; not for intravenous or intramuscular use.)			
<u>POULTRY:</u>					
Lice	Rabon (50% WP)	4 lbs.	4 oz.	0	<u>Poultry Limitations</u> <u>Permethrin:</u> apply one gallon Of spray solution per 100 birds. Don't apply more than every two weeks.
Mites	Ravap 23% + 5.3%	1 gal.	7.5 ozs.	0	
	Permethrin 5.7% (Ectiban, Insectrin)	2 qts.	4 ozs.	0	
Fowl ticks	Rabon (50% WP)	8 lbs.	0.5 lb.	0	<u>Rabon:</u> Apply one gallon of spray solution per 100 birds. Don't reapply within 14 days. <u>Ravap:</u> Apply one gallon of spray solution per 100 birds. Don't reapply within 14 days.

LOUISIANA RECOMMENDATIONS FOR CONTROL OF LIVESTOCK PESTS (cont'd)

INSECTICIDES FOR FLY CONTROL IN AND AROUND DAIRY BARN (BUT NOT MILK ROOMS)

Insecticides	Chemical Class	How to Mix	Remarks
Permethrin	Pyrethroid	Mix 0.1% spray solution as per label instructions.	Apply 1 gal. per 750 sq. ft.
(Numerous formulations: Atroban, Ectiban, Anchor, Permethrin, Gardstar, Insectrin and others.)			
Ectrin	Pyrethroid	Mix 2 ozs. concentrate per 1.5 gals. or 1 qt. per 25 gals.	Apply 1 gal. per 750 sq. ft. Remove animals before spraying.
Countdown	Pyrethroid	Prepare 0.1 spray solution as per label instructions.	Inside use spot treatment only. Treat surfaces outside.
Ravap	Organophosphate	Mix 5 ozs. concentrate per gal. water or 1 gal. per 25 gals.	Apply 1 gal. per 500-1,000 sq. ft. Remove animals before spraying and keep out for at least four hours.
Rabon	Organophosphate	Mix 4-8 lbs. (see label) concentrate per 25 gals water.	Apply 1 gal. per 500-1,000 sq ft. (see label) Remove animals before spraying.
Dimethoate	Organophosphate	Prepare 1% spray solution as per label recommendations.	Apply 1 gal. per 500-1,000 sq. ft. Remove animals before spraying.
Grenade WP	Pyrethroid	Prepare solution as per label instructions.	Remove animals before spraying.

INSECTICIDES FOR FLY CONTROL-MANURE TREATMENT

Insecticides	Chemical Class	How to Mix	Remarks
Dimethoate (4)	Organophosphate	Mix 4 ozs. in 5 qts. water.	Apply as a coarse spray.
Rabon 50	Organophosphate	Mix 4 lbs. in 25 gals. water. (1% solution)	Apply 1 gal. per 100 sq. ft. Can be repeated at 7- to 10-day intervals.
Ravap	Organophosphate	Mix 5 ozs. in 1 gal. water or 1 gal. in 25 gals. water.	Apply 1 gal. per 100 sq. ft. Can be repeated at 7- to 10-day intervals.
Vapona	Organophosphate	Mix 2 ozs. in 1.5 gals. water or 1 gal. in 100 gals. water.	Apply 1-2 qts. per 100 sq. ft. Can be repeated at 7-day intervals.

INSECTICIDES TO CONTROL FIRE ANTS AROUND LIVESTOCK PREMISES INCLUDING POULTRY HOUSES

Insecticide	Formulation	How to Apply
Amdro	Bait	2-5 TBS per mound or broadcast at 1 - 1.5 lbs. per acre.
Clinch	Bait	5-7 TBS per mound or broadcast at 1 lb. per acre.
Justice	Bait	4-6 TBS per mound or broadcast at 2.5 - 5 lbs. per acre.
Extinguish Plus	Bait	2-5 TBS per mound or broadcast at 1.5 lbs. per acre.
GuardStar	EC	Drench each mound with 1 gal. of 1% solution.
Countdown	EC/WP	Spray surfaces or drench mounds with 0.1% solution.
Grenade	EC/WP	Spray with 0.015-0.03 solution.