

Livestock – Cattle, Hogs, Poultry, Sheep and Goats

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:

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 barns, do not contaminate feed or food and water troughs or allow runoff into streams.

The following pages include lists of commonly used products used on livestock animals.

For a simple searchable list of products and formulations registered in Louisiana, please visit the following website:

http://veterinaryentomology.ucr.edu/vet_pesticides.html.

Livestock – Cattle, Hogs, Poultry, Sheep and Goats

Beef Cattle					
Pest	Insecticides	To Make 50 gallons	To Make 3 gallons	Minimum Days Treatment to Slaughter	Remarks
Cattle Grubs	Pour-ons				
	Ivomec (0.5%) (and other Ivermectin products)			48	Apply 1 milliliter per 22 pounds of body weight down back.
	Eprinex			0	Apply 1 milliliter per 22 pounds of body weight down back.
	Dectomax (0.5%)			45	Apply 1 milliliter per 22 pounds of body weight down back.
	Cydectin			0	Apply 1 milliliter per 22 pounds of body weight down back.
Face Flies	Python dust			0	For use in dust bags. Use about 10 pounds of dust per bag. Hang so bottom of bag is 30-36 inches above ground.
	Permethrin dust				
	1% Co-Ral dust			0	
Horn Flies	Sprays				
	Co-Ral (6.1%)	2 quarts	4 ounces	0	
	Co-Ral (11.6%)	1 quart	2 ounces	0	
	Rabon (50% WP)	2.66 pounds	2.5 ounces	0	
	Ravap (23% + 5.7%)	2.6 quarts	5 ounces	0	
	Permethrin EC's			0	Many formulations. Refer to labels.
Horn Flies	Pour-ons (ready-to-use)				
	Dectomax			45	Apply 1 milliliter per 22 pounds of body weight down back.
	Ivomec (0.5%) (and other Ivermectins)			48	Apply 1 milliliter per 22 pounds of body weight.
	Cylence			0	Apply down back line, 4 milliliters per 400 pounds of body.
	Saber			0	Apply down back line, 10 milliliters per head for cattle less than 600 pounds, 15 milliliters per head for cattle larger than 600 pounds.
	Permethrin Pour-ons			0	Many formulations. Refer to labels.
Horn Flies	Ear Tags - Organophosphate Tags				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.
	X-Terminator (20% diazinon)			0	All ear tags will provide approximately 10 weeks of control for susceptible flies.
	Optimizer (20% diazinon)			0	For resistant horn flies, tags with an asterisk (*) are more likely to give satisfactory control.
	*Patriot (40% diazinon)			0	

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Beef Cattle					
Pest	Insecticides	To Make 50 gallons	To Make 3 gallons	Minimum Days Treatment to Slaughter	Remarks
	Co-Ral Plus (20% coumaphos + 20% diazinon)			0	
	*Warrior (30% diazinon + 10% chlorpyriphos)			0	
	Dominator (20% pirimphos-methyl)			0	
	Ear Tags - Pyrethroid Tags				
	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	
	Ear Tags - Chlorinated hydrocarbon (Cyclodiene) Tags				
	Avenger (endosulfan 30%)			0	
Horn Flies	Backrubbers				
	Co-Ral (11.6%)	29 ounce/ 3 gallons diesel fuel		0	
	Co-Ral (6.1%) (1% oil solution)	1 quart/ 3 gallons diesel fuel		0	
	Ravap (1% + 0.25% oil solution)	1 pint/ 3 gallons diesel fuel		0	
	Permethrin (0.1% oil solution)				Refer to labels.
	Lintox HD (2% oil solution)			3	Refer to labels.
Horn Flies	Dust Bags				
	Co-Ral 1% dust			0	
	Permethrin Dust			0	
	Python 0.075% dust			0	
	Rabon 3% dust			0	

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Beef Cattle					
Pest	Insecticides	To Make 50 gallons	To Make 3 gallons	Minimum Days Treatment to Slaughter	Remarks
Horse Flies, Stable Flies, Mosquitoes	Sprays				
	Pyrethrins + Synergist (1% + 10% EC)	2.5 gallons	1.25 pints.	0	Apply 1-2 quarts per animal as a wet spray every 2-3 days.
	Pyrethrins + Synergist (0.1% + 1.0% oil solution)			0	1-2 fluid ounces per animal as a mist spray daily.
	Permethrin EC's			0	Many formulations. Refer to labels.
	<i>Effective control of horse flies, stable flies and mosquitoes with insecticides is difficult to achieve. Multiple applications may be required.</i>				
Ticks	Sprays				
	Rabon (50%VVP)	4 pounds	4 ounces	0	
	Ravap (23% + 5.7%EC)	1 quart	2 ounces	0	
	Amitraz (Taktic 12.5%)	1 pint	1 ounce	0	Other Amitraz formulations available.
	Co-Ral (42%) DIP	1-2 pints		0	
	Co-Ral (6.1%)	1 gallons	8 ounces	0	
	Co-Ral (11.6%)	0.5 gallons	4 ounces	0	
Lice	Sprays				
	Co-Ral (6.1% EC)	2 quarts	4 ounces	0	
	Co-Ral (11.6% EC)	1 quart	2 ounces	0	
	Ravap (23% + 5.7%)	2.6 quarts	5 ounces	0	
	Rabon 50%	2.66 pounds	2.5 ounces	0	
	Amitraz (12.5%) Taktic	1 pint.	1 ounce	0	Other Amitraz formulations available.
	Pour-ons (ready-to-use)				
	Ivomec 0.5% (and other Ivermectin products)			48	Apply 1 milliliter per 22 pounds of body weight.
	Dectomax			45	Apply 1 milliliter per 22 pounds of body weight.
	Cylence			0	Apply down back line 8 milliliters per 400 pounds per body weight; 24 milliliters for animals over 800 pounds
	Saber			0	Apply down back line, 10 milliliters per head for cattle less than 600 pounds; 15 milliliters per head for cattle larger than 600 pounds.
	Eprinex or Cydectin				Apply 1 milliliter per 22 pounds of 0/0 body weight along back.
	Permethrin Pour-ons			0	Many formulations. Refer to labels.

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Beef Cattle					
Pest	Insecticides	To Make 50 gallons	To Make 3 gallons	Minimum Days Treatment to Slaughter	Remarks
Mange Mites	Dectomax			45	Apply 1 milliliter per 22 pounds of body weight down back.
	Co-Ral (42%) <u>DIP</u>	2.5 pints/ 50 gallons as a dip		0	
	Eprinex 5 mgs./mls.			0	Apply 1 milliliter per 22 pounds of body weight down back.
	Ivomec (0.5%) and other ivermectins			48	Apply 1 milliliter per 22 pounds of body weight down back.
	Amitraz 12.5% (Tactic)	1 pint	1 ounce	0	Other Amitraz formulations available.
	Cydectin			45	Apply 1 milliliter per 22 pounds of body weight down back.
Ticks	Ear Tags (Ear ticks only)				
	Brand Name	Formulation			Apply 1 tag in each ear. Once every 10 days. Do not treat calves under 6 months of age. Do not treat Brahman.
	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	

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Beef Cattle
Insecticide Use Precautions
Amitraz: For dairy cattle, no milk withholding period or discard time. Do not treat cattle in stress. Spray to wet and runoff.
Co-Ral 6.15%: Do not apply at rates above 1 quart per 50 gallons water to lactating or nonlactating 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.
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 1 ounce per 3 gallons water to lactating or nonlactating dairy cattle within 14 days of freshening. Spray to wet and run-off.
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.
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 pour-on more than once every 3 weeks.
Dectomax: Also controls certain internal parasites. Do not apply to areas of the skin with lesions, scabs or caked mud/manure.
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.
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.
Lintox-HD: Do not treat cattle younger than 3 months old.
Python Dust: For direct application. Do not apply more than every 3 days.
Permethrin: Do not treat more than once every 2 weeks. For EC solutions spray to wet and run-off. Pyrethrins: none.
Rabon: Not labeled for dairy cattle. On beef cattle, apply 0.5 to 1.0 gallon spray solution per animal.
Ravap: Do not treat more than once every 10 days. Do not treat calves less than 6 months old. Do not treat Brahman or Brahman-crossed cattle with Ravap. Spray cattle with 0.5 to 1.0 gallon diluted spray per animal. For dairy cattle, no milk discard is required. Spray dairy cattle with 0.5 gallon diluted spray per animal.
Saber: Do not treat more than once every 2 weeks or more than four times within a 6-month period.

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Dairy Cattle (lactating)					
Pest	Insecticides	To Make 50 gallons	To Make 3 gallons	Minimum Days Treatment to Slaughter	Remarks
Cattle Grubs	Pour-on				
	Eprinex or Cydectin			0	Apply 1 milliliter per 22 pounds of body weight along back.
Face Flies	Dusts				
	1% or 3% Rabon			0	Use about 10 pounds of dust per bag. Hang so bottom of bag is 30-36 inches above ground.
	Permethrin dust			0	
Horn Flies	Sprays				
	Permethrin			0	Many formulations. Refer to labels.
	Ravap (23% + 5.7%)	1 quart	2 ounces	0	
Horn Flies	Backrubbers				
	Co-Ral (6.15%) (1% oil solution)	1 quart/ 3 gallons diesel fuel		0	
	Ravap (1% + 0.25% oil solution)	1 pint/ 3 gallons diesel fuel		0	
	Permethrin (0.1% oil solution)			0	Many formulations. Refer to labels.
Horn Flies	Dusts (ready-to-use)				
	1% Co-Ral dust			0	Use about 10 pounds of dust per bag. Hang so bottom of bag is 30-36 inches above ground.
	Permethrin dust				
	0.075% Python dust				
Horn Flies	Ear Tags				
	Python and Python			0	Remove ear tags at end of fly season. If fly control with ear tags is lost, remove ear tags and use alternate recommended treatment.
	Magnum (10% zetacypermethrin + 20% PBO)				
	Cylence Ultra (8% betacyfluthrin + 20% PBO)				
Horn Flies	Pour-ons (ready-to-use)				
	Cylence			0	Apply down back line: 4 milliliters per 400 pounds of body weight, 12 milliliters for animals over 800 pounds.
	Eprinex or Cydectin			0	Apply 1 milliliter per 22 pounds of body weight along back.
	Permethrin Pour-ons				Many formulations. Refer to labels.

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Dairy Cattle (lactating)					
Pest	Insecticides	To Make 50 gallons	To Make 3 gallons	Minimum Days Treatment to Slaughter	Remarks
Horse Flies, Stable Flies, Mosquitoes	Sprays				
	Pyrethins + Synergist (1% + 10% EC)	2.5 gallons	0.25 pint	0	Apply 1-2 quarts per animal; apply every 2-3 days.
	Pyrethrins + Synergist (0.1 + 1.0% oil solution)			0	Apply 1-2 ounces per animal daily as a mist.
	Permethrin EC's			0	Many formulations. Refer to labels.
	<i>Effective control of horse flies, stable flies and mosquitoes with insecticides is difficult to achieve. Multiple applications may be required.</i>				
Lice	Sprays				
	Permethrin			0	Many formulations. Refer to labels.
	Ravap (23% + 5.7%)	1 quart	2 ounces	0	
	Co-Ral (6.15%)	1 quart	2 ounces	0	
	Co-Ral (11.6%)	1 pint	1 ounce	0	
	Amitraz (Taktic) 12.5%	1 pint	1 ounce	0	Other Amitraz formulations available)
	Pour-ons (ready-to-use)				
	Permethrin Pour-on			0	Many formulations. Refer to labels.
	Cylence			0	Apply down back line: 8 milliliters per 400 pounds of body weight, 24 milliliters for animals over 800 pounds.
	Eprinex or Cydectin			0	Apply 1 milliliter per 22 pounds of body weight along back.
Mange Mites	Spray				
	Amitraz (Taktic) 12.5%	1 pint	1 ounce	0	Other Amitraz formulations available.
	Permethrin EC				Many formulations. Refer to labels.
Ticks	Sprays				
	Ravap (23% + 5.7%)	1 quart	2 ounces	0	
	Amitraz (Taktic) 12.5%	1 pint	1 ounce	0	Other Amitraz formulations available.
	Ear Tags (ear ticks only)				
	Python (zetacypermethrin 10% + PBO 20%)			0	Attach 2 ear tags to all animals in the herd.
	Cylence Ultra (8% betacyfluthrin + 20% PBO)				

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Dairy Cattle (lactating)
Insecticide Use Precautions
Amitraz: For dairy cattle, no milk withholding period or discard time. Do not treat cattle in stress. Spray to wet and runoff.
Co-Ral 6.15%: Do not apply at rates above 1 quart per 50 gallons water to lactating or nonlactating 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.
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 1 ounce per 3 gallons water to lactating or nonlactating dairy cattle within 14 days of freshening. Spray to wet and run-off.
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.
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 pour-on more than once every 3 weeks.
Dectomax: Also controls certain internal parasites. Do not apply to areas of the skin with lesions, scabs or caked mud/manure.
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.
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.
Lintox-HD: Do not treat cattle younger than 3 months old.
Python Dust: For direct application. Do not apply more than every 3 days.
Permethrin: Do not treat more than once every 2 weeks. For EC solutions spray to wet and run-off.
Pyrethrins: none.
Rabon: Not labeled for dairy cattle. On beef cattle, apply 0.5 to 1.0 gallons spray solution per animal.
Ravap: Do not treat more than once every 10 days. Do not treat calves less than 6 months old. Do not treat Brahman or Brahman-crossed cattle with Ravap. Spray cattle with 0.5 to 1.0 gallon diluted spray per animal. For dairy cattle, no milk discard is required. Spray dairy cattle with 0.5 gallon diluted spray per animal.
Saber: Do not treat more than once every 2 weeks or more than four times within a 6-month period.

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Hogs					
Pest	Insecticides	To Make 50 gallons	To Make 3 gallons	Minimum Days Treatment to Slaughter	Remarks
Lice	Co-Ral (6.15% WP)	2 quarts.	4 ounces	0	
	Co-Ral 1% Dust				1 ounce per animal, evenly
	Permethrin (spray)			5	Numerous formulations. Refer to labels.
	Taktic (12.5% Amitraz)	2 quarts	1.5 ounces		Other Amitraz formulations available.
Mange Mites	Permethrin			5	Numerous formulations. Refer to labels.
	Taktic (12.5% Amitraz)	2 quarts	1.5 ounces		Other Amitraz formulations available.
Lice	Ivermectin 1%				Inject 1 milliliter per 75 pounds body weight.
Mange Mites	Injectable Ivomec				Subcutaneous injection; not for intravenous or intramuscular use.

Insecticide Use Precautions
Co-Ral: 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.
Permethrin: Do not apply more than every 2 weeks. Spray to wet and run-off.
Ivermectin 1% Injectable: Also controls certain other internal parasites.
Amitraz: Treat animals no more than four times per year. Spray to wet and run-off. Two applications at 7- to 10-day intervals for mites and 10- to 14-day intervals for lice. Do not apply within 3 days of slaughter.

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Poultry					
Pest	Insecticides	To Make 50 gallons	To Make 3 gallons	Minimum Days Treatment to Slaughter	Remarks
Lice	Rabon (50% WP)	4 pounds	4 ounces	0	
Mites					
	Ravap 23% + 5.3%	1 gallons	7.5 ounces	0	
	Permethrin			0	Numerous formulations. Refer to labels.
Fowl Ticks	Rabon (50% WP)	8 pounds	0.5 pound	0	

* Apply 1 gallon per 100-150 square feet to walls, ceilings and cracks and crevices.

Insecticide Use Precautions
Permethrin: Apply 1 gallon of spray solution per 100 birds. Do not apply more than every 2 weeks.
Rabon: For lice and mites, apply 1 gallon of spray solution per 100 birds. Do not reapply within 14 days.
Ravap: Apply 1 gallon of spray solution per 100 birds. Do not reapply within 14 days.

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Sheep and Goats					
Pest	Insecticides	To Make 50 gallons	To Make 3 gallons	Minimum Days Treatment to Slaughter	Remarks
Keds, Lice, Ticks	Python dust (0.075%)	2 ounces per animal, evenly		0	
	Permethrin	Many formulations. Refer to labels.		0	

Insecticide Use Precautions
Python: Do not apply more than every 3 days.
Permethrin: Do not apply more than every 2 weeks. Apply 1 pint diluted spray per animal.

Livestock – Cattle, Hogs, Poultry, Sheep and Goats

Fire Ant Management Around Livestock Premises, Including Poultry Houses

Insecticide	Formulation	How to Apply
Amdro	Bait	2-5 tablespoons per mound or broadcast at 1-1.5 pounds per acre.
Clinch	Bait	5-7 tablespoons per mound or broadcast at 1 pound per acre.
Justice	Bait	4-6 tablespoons per mound or broadcast at 2.5-5 pounds per acre.
Extinguish Plus	Bait	2-5 tablespoons per mound or broadcast at 1.5 pounds per acre.
GuardStar	EC	Drench each mound with 1 gallon 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.

Livestock – Cattle, Hogs, Poultry, Sheep and Goats

Fly Control			
Insecticides	Chemical Class	How to Mix	Remarks
In and Around Dairy Barns (Not Milk Rooms)			
Permethrin	Pyrethroid	Mix 0.1% spray solution as per label instructions.	Apply 1 gallon per 750 square feet. Numerous formulations: Atroban, Ectiban, Anchor, Permethrin, Gardstar, Insectrin and others.
Ectrin	Pyrethroid	Mix 2 ounces concentrate per 1.5 gallons or 1 quart. per 25 gallons	Apply 1 gallon per 750 square feet. 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 ounces concentrate per gallons water or 1 gallons per 25 gallons	Apply 1 gallon per 500-1,000 square feet. Remove animals before spraying and keep out for at least four hours.
Rabon	Organophosphate	Mix 4-8 pounds (see label) concentrate per 25 gallons water.	Apply 1 gallon per 500-1,000 square feet (see label). Remove animals before spraying.
Grenade WP	Pyrethroid	Prepare solution as per label instructions.	Remove animals before spraying.
Manure Treatment			
Rabon 50	Organophosphate	Mix 4 pounds in 25 gallons water. (1% solution)	Apply 1 gallon per 100 square feet. Can be repeated at 7- to 10-day intervals.
Ravap	Organophosphate	Mix 5 ounces in 1 gallon water or 1 gallon in 25 gallons water.	Apply 1 gallon per 100 square feet. Can be repeated at 7- to 10-day intervals.
Vapona	Organophosphate	Mix 2 ounces in 1.5 gallons water or 1 gallons in 100 gallons water.	Apply 1-2 quarts per 100 square feet. Can be repeated at 7-day intervals.