

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 the 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.

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Beef Cattle

Pest	Insecticides	To Make 50 gallons	To Make 3 gallons	Minimum Days Treatment to Slaughter	Remarks
Cattle Grubs	Ivomec (0.5%) (and other Ivermectin products)			48	-Pour-ons (ready-to-use) -Apply 1 milliliter per 22 pounds of body weight down back.
	Eprinex			0	
	Dectomax (0.5%)			45	
	Cysectin			0	
Face Flies	Python dust			0	For use in dust bags. Use about 10 pounds of dust per bag. Hang the bottom of the bag 30-36 inches above the ground.
	Permethrin dust				
	1% Co-Ral dust			0	
Horn Flies	Co-Ral (6.1%)	2 quarts	4 ounces	0	-Sprays
	Co-Ral (11.6%)	1 quart	2 ounces	0	
	Rabon (50% WVP)	2.66 pounds	2.5 ounces	0	
	Ravap (23% + 5.7%)	2.6 quarts	5 ounces	0	
	Permethrin EC's			0	
	Dectomax			45	-Pour-ons (ready-to-use) -Apply 1 milliliter per 22 pounds of body weight.
	Ivomec (0.5%) (and other Ivermectins)			48	
	Cylence			0	-Pour-ons (ready-to-use) -Apply down back line, 4 milliliters per 400 pounds of body.
	Saber			0	-Pour-ons (ready-to-use) -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.
	X-Terminator (20% diazinon)			0	-Ear Tags - Organophosphate Tags -Treat all adult animals as per label instructions. Treatment of nursing calves is not required if cows are treated. Remove tags at end of the fly season or if fly populations exceed the economic threshold. 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.
	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	
	Python (zeta-cypermethrin 10% + PBO 20%)			0	
	Python Magnum (zeta-cypermethrin 10% + PBO 20%)			0	Ear Tags - Pyrethroid Tags

Livestock – Cattle, Hogs, Poultry, Sheep, and Goats

Pest	Insecticides	To Make 50 gallons	To Make 3 gallons	Minimum Days Treatment to Slaughter	Remarks
	Cylence Ultra (beta-cyfluthrin 8% + 20% PBO)			0	Ear Tags - Chlorinated hydrocarbon (Cyclodiene) Tags -Backrubbers -Refer to labels. Dust Bags
	Saber Extra (lambda-cyhalothrin 10% + PBO 13%)			0	
	Avenger (endosulfan 30%)			0	
	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)				
	Lintox HD (2% oil solution)			3	
	Co-Ral 1% dust			0	
	Permethrin Dust			0	
	Python 0.075% dust			0	
	Rabon 3% dust			0	
Horse Flies, Stable Flies, Mosquitoes <i>Effective control of horse flies, stable flies and mosquitoes with insecticides is difficult to achieve. Multiple applications may be required.</i>	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.
Ticks	Rabon (50%VWP)	4 pounds	4 ounces	0	-Sprays -Other Amitraz formulations available.
	Ravap (23% + 5.7%EC)	1 quart	2 ounces	0	
	Amitraz (Taktic 12.5%)	1 pint	1 ounce	0	
	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	Co-Ral (6.1% EC)	2 quarts	4 ounces	0	-Sprays -Other Amitraz formulations available.
	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	

Livestock – Cattle, Hogs, Poultry, Sheep, and Goats

Pest	Insecticides	To Make 50 gallons	To Make 3 gallons	Minimum Days Treatment to Slaughter	Remarks
	Amitraz (12.5%) Tactic	1 pint.	1 ounce	0	
	Ivomec 0.5% (and other Ivermectin products)			48	-Pour-ons (ready-to-use) -Apply 1 milliliter per 22 pounds of body weight.
	Dectomax			45	
	Cylence			0	-Pour-ons (ready-to-use) -Apply down back line 8 milliliters per 400 pounds per body weight; 24 milliliters for animals over 800 pounds
	Saber			0	-Pour-ons (ready-to-use) -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				-Pour-ons (ready-to-use) -Apply 1 milliliter per 22 pounds of 0/0 body weight along back.
	Permethrin Pour-ons			0	-Pour-ons (ready-to-use) -Many formulations. Refer to labels.
Mange Mites	Dectomax			45	-Apply 1 milliliter per 22 pounds of body weight down back. -Other Amitraz formulations available.
	Co-Ral (42%) <u>DIP</u>	2.5 pints/ 50 gallons as a dip		0	
	Eprinex 5 mgs./mls.			0	
	Ivomec (0.5%) and other ivermectins			48	
	Amitraz 12.5% (Tactic)	1 pint	1 ounce	0	
	Cydectin			45	

Ticks

Brand Name	Formulation	Minimum Days Treatment to Slaughter	Remarks
Avenger	30% endosulfan	0	-Ear Tags (Ear ticks only) -Apply 1 tag in each ear. -Once every 10 days. Do not treat calves under 6 months of age. Do not treat Brahman.
Optimizer	20% diazinon		
X-Terminator	20% diazinon		
Patriot	40% diazinon		
Co-Ral Plus	20% diazinon + 20% coumaphos		
Dominator	20% pirimiphos-methyl		
Cylence Ultra	8% Beta-cyfluthrin + 20% PBO		
Saber Extra	10% Lambda-cyhalothrin + 13% PBO		
Python	10% Zeta-cypermethrin + 20% PBO		

Livestock – Cattle, Hogs, Poultry, Sheep, and Goats

Beef Cattle

Insecticide Use Precautions

- **Amitraz:** For dairy cattle, no milk withholding period or discard time. Do not treat cattle under stress. Spray to wet and runoff.
- **Co-Ral 6.15%:** Do not apply at rates above 1 quart per 50 gallons of 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 of 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 runoff. Pyrethrin: 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 gallons of diluted spray per animal. For dairy cattle, no milk discard is required. Spray dairy cattle with 0.5 gallons diluted spray per animal.
- **Saber:** Do not treat more than once every 2 weeks or more than four times within a 6-month period.

Livestock – Cattle, Hogs, Poultry, Sheep, and Goats

Dairy Cattle (lactating)

Pest	Insecticides	To Make 50 gallons	To Make 3 gallons	Minimum Days Treatment to Slaughter	Remarks	
Cattle Grubs	Eprinex or Cydectin			0	-Pour-on -Apply 1 milliliter per 22 pounds of body weight along back.	
Face Flies	1% or 3% Rabon			0	-Dusts -Use about 10 pounds of dust per bag. Hang so bottom of bag is 30-36 inches above ground.	
	Permethrin dust			0		
Horn Flies	Permethrin			0	-Sprays -Many formulations. Refer to labels.	
	Ravap (23% + 5.7%)	1 quart	2 ounces	0		
	Co-Ral (6.15%) (1% oil solution)	1 quart/ 3 gallons diesel fuel		0	-Backrubbers	
	Ravap (1% + 0.25% oil solution)	1 pint/ 3 gallons diesel fuel		0		
	Permethrin (0.1% oil solution)			0	-Backrubbers -Many formulations. Refer to labels.	
	1% Co-Ral dust			0	-Dusts (ready-to-use) -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					
	Ear Tags					
	Python and Python				0	-Ear Tags -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% zeta-cypermethrin + 20% PBO)					
	Cylence Ultra (8% beta-cyfluthrin + 20% PBO)					
	Cylence				0	-Pour-ons (ready-to-use) -Apply down back line: 4 milliliters per 400 pounds of body weight, 12 milliliters for animals over 800 pounds.
	Eprinex or Cydectin				0	-Pour-ons (ready-to-use) -Apply 1 milliliter per 22 pounds of body weight along back.
Permethrin Pour-ons					Many formulations. Refer to labels.	
Horse Flies, Stable Flies, Mosquitoes <i>Effective control of horse flies, stable flies and mosquitoes with insecticides is difficult to achieve. Multiple applications may be required.</i>	Pyrethrins + Synergist (1% + 10% EC)	2.5 gallons	0.25 pint	0	-Spray -Apply 1-2 quarts per animal; apply every 2-3 days.	
	Pyrethrins + Synergist (0.1 + 1.0% oil solution)			0	-Spray -Apply 1-2 ounces per animal daily as a mist.	
	Permethrin EC's			0	-Sprays Many formulations. Refer to labels.	

Livestock – Cattle, Hogs, Poultry, Sheep, and Goats

Pest	Insecticides	To Make 50 gallons	To Make 3 gallons	Minimum Days Treatment to Slaughter	Remarks
Lice	Permethrin			0	-Sprays -Other Amitraz formulations available)
	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	
	Permethrin Pour-on			0	Many formulations. Refer to labels.
	Cylence			0	-Pour-ons (ready-to-use) -Apply down back line: 8 milliliters per 400 pounds of body weight, 24 milliliters for animals over 800 pounds.
Eprinex or Cydectin			0	-Pour-ons (ready-to-use) -Apply 1 milliliter per 22 pounds of body weight along back.	
Mange Mites	Amitraz (Taktic) 12.5%	1 pint	1 ounce	0	-Spray -Other Amitraz formulations available.
	Permethrin EC				Many formulations. Refer to labels.
Ticks	Ravap (23% + 5.7%)	1 quart	2 ounces	0	-Spray -Other Amitraz formulations available.
	Amitraz (Taktic) 12.5%	1 pint	1 ounce	0	
	Python (zeta-cypermethrin 10% + PBO 20%)			0	-Ear Tags (ear ticks only) -Attach 2 ear tags to all animals in the herd.
	Cylence Ultra (8% beta-cyfluthrin + 20% PBO)				

Livestock – Cattle, Hogs, Poultry, Sheep, and Goats

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 of 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 of 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 of 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 of diluted spray per animal. For dairy cattle, no milk discard is required. Spray dairy cattle with 0.5 gallons 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 are available.
Mange Mites	Permethrin			5	Numerous formulations. Refer to labels.
	Taktic (12.5% Amitraz)	2 quarts	1.5 ounces		Other Amitraz formulations are 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.

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 gallon	7.5 ounces	0	
	Permethrin			0	Numerous formulations. Refer to labels.
Fowl Ticks	Rabon (50% WP)	8 pounds	0.5 pound	0	

NOTE: Apply 1 gallon per 100-150 square feet to walls, ceilings, 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.