

## LOUISIANA RECOMMENDATIONS FOR CONTROL OF INSECTS ON HORSES

| Pest                        | Insecticides  | Rates/Mixing/Dilution  |
|-----------------------------|---|--|
| <b>Flies and Mosquitoes</b> | 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)<br/>                     Permethrin<br/>                     Permethrin + Pyrethrins<br/>                     Resmethrin<br/>                     Resmethrin + Pyrethrins + PBO<br/>                     Cypermethrin<br/>                     Cypermethrin + Pyrethrins + PBO</p> <p>Refer to labels of concentrates for mixing instructions.<br/>                     Refer to all product labels for minimum treatment intervals.<br/>                     Some ready-to-use products may also contain repellants such as dipropyl isocinchomeronate (MGK 326) and/or butoxypolypropylene (Stabilene).</p> |  |
|                             | <p>The following are common name insecticides sold under numerous trade names. Refer to labels for mixing and treatment instructions.</p> <p>Permethrin<br/>                     Resmethrin (Ticks only)<br/>                     Cypermethrin</p>  |  |
| <b>Lice and Ticks</b>       | 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.<br>For ear ticks, apply 1/3 oz. ( 1 Tbs.) per ear.      |
| <b>Bots</b>                 | <p>Use worming products for internal parasites.<br/>                     Refer to labels for application instructions:<br/>                     Ivermectin (sold as Zimectrin, Eqvalan, and Phoenectrin), Moxidectin (sold as Quest)</p>  |  |

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## **LOUISIANA RECOMMENDATIONS FOR CONTROL OF LIVESTOCK PESTS**

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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  | <u>To Make</u><br>50 gals      3 gals  | Minimum Days<br>Treatment<br>to Slaughter | Insecticide Use<br>Precautions   |
|---|---|--|---|--|
| <b>LACTATING DAIRY CATTLE</b>   |   |  |   | <b><u>Beef and Dairy Cattle</u></b>  |
| <b><u>Horn Flies</u></b>  |   |  |   |  |
| <b><u>Sprays</u></b>  |   |  |   |  |
|   | Permethrin  | Many formulations.<br>Refer to labels.   | 0   | <b><u>Amitraz</u></b> : 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   |  |
| <b><u>Backrubbers</u></b>   |   |  |   |  |
|   | Co-Ral (6.15%)<br>(1% oil solution)   | 1 qt./3 gals. diesel fuel  | 0   | <b><u>Co-Ral 6.15%</u></b> : 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<br>(1% + 0.25% oil solution)  | 1 pt./3 gals. diesel fuel  | 0   |  |
|   | Permethrin<br>(0.1% oil solution)   | Many formulations.<br>Refer to labels.   | 0   |  |
| <b><u>Dusts</u></b><br>(ready-to-use)   |   |  |   |  |
|   | 1% Co-Ral dust<br>Permethrin dust<br>0.075% Python dust   | Use about 10 lbs. of dust per bag. Hang so bottom of bag is 30-36 inches above ground.   | 0   | <b><u>Co-Ral 11.6%</u></b> : 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 oz. per 3 gals. water to lactating or non-lactating dairy cattle within 14 days of freshening. Spray to wet and run-off. |
| <b><u>Ear Tags</u></b>  |   |  |   |  |
|   | Python and Python<br>Magnum(10% zetacyper-<br>methrin + 20% PBO )<br>Cylence Ultra (8% beta-<br>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   |  |
| <b><u>Pour-ons</u></b><br>(Ready-to-use)  |   |  |   |  |
|   | Cylence   | Apply down back line:<br>4 mls. per 400 lbs. of body weight, 12 mls. for animals over 800 lbs.                                       | 0   | <b><u>Co-Ral 42%</u></b> : 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.<br>Refer to labels.   | 0   |  |
| <hr/>   |   |  |   |  |
| *Horse flies  |   |  |   | <b><u>Cydectin</u></b> : 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.  |
| * Stable flies and<br>*Mosquitoes   | Pyrethins + Synergist<br>(1% + 10% EC)  | 2.5 gals.      0.25 pt. (spray)<br>Apply 1-2 qts. per animal; apply every 2-3 days   | 0   |  |
| * <u>Sprays</u>   | Pyrethrins + Synergist<br>(0.1 + 1.0% oil solution)   | Apply 1-2 ozs. per animal daily as a mist.   | 0   |  |
|   | Permethrin EC's   | Many formulations;<br>refer to labels.   | 0   | <b><u>Cylence</u></b> : Do not apply pour-on more than once every 3 weeks.   |
| * 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 |                                     |   |
| <b>LACTATING DAIRY CATTLE (cont'd)</b> |   |   |        |                                     |   |
| Ticks                                  | Ravap (23% + 5.7%)  | 1 qt.   | 2 ozs. | 0                                   | <b>Dectomax:</b> 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%<br>(other amitraz formulations available)                        | 1 pt.   | 1 oz.  | 0                                   |   |
| <u>Ear Tags</u><br>(ear ticks only)    | Python (zetacypermethrin 10% + PBO 20%)<br>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                                   |   |
| <u>Sprays</u>                          | Ravap (23% + 5.7%)  | 1 qt.   | 2 ozs. | 0                                   | <b>Ivomec:</b> 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.   |
|  | Co-Ral (6.15%)  | 1 qt.   | 2 ozs. | 0                                   |   |
|  | Co-Ral (11.6%)  | 1 pt.   | 1 oz.  | 0                                   |   |
|  | Amitraz (Taktic) 12.5%<br>(other amitraz formulations available)                        | 1 pt.   | 1 oz.  | 0                                   |   |
| <u>Pour-ons</u><br>(Ready-to-use)      | Permethrin Pour-on  | Many formulations; refer to labels.   |        | 0                                   | <b>Lintox-HD:</b> Do not treat cattle younger than 3 months old.<br><b>Python Dust:</b> For direct application do not apply more than every three days.   |
|  | Cylence   | Apply down back line: 8 mls. per 400 lbs. of body weight, 24 mls. for animals over 800 lbs. |        | 0                                   |   |
|  | 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                                   | <b>Permethrin:</b> Do not treat more than once every two weeks. For EC solutions spray to wet and run-off.<br><b>Pyrethrins:</b> none.  |
| <u>Dusts</u>                           | Permethrin dust   |   |        | 0                                   |   |
| Cattle grubs                           | Eprinex or Cydectin   | Apply 1 ml. per 22 lbs. of body weight along back.  |        | 0                                   | <b>Rabon:</b> 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%<br>(other amitraz formulations available)                        | 1 pt.   | 1 oz.  | 0                                   | <b>Ravap:</b> 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   |                                     |   |
| <b><u>BEEF CATTLE:</u></b>          |  |  |          |                                     |   |
| Ticks<br><u>Sprays</u>              | Rabon (50%WP)  | 4 lbs.   | 4 ozs.   | 0                                   | <b><u>Saber:</u></b> Do not treat more than once every two weeks or more than four times within a six-month period. |
|                                     | Ravap (23% + 5.7%EC)   | 1 qt.  | 2 ozs.   | 0                                   |   |
|                                     | Amitraz (Taktic 12.5%)<br>(other amitraz formulations available) | 1 pt.  | 1 oz.    | 0                                   |   |
|                                     | Co-Ral (42%) DIP   | 1-2 pts.   |          | 0                                   |   |
|                                     | Co-Ral (6.1%)  | 1 gal.   | 8 ozs.   | 0                                   |   |
|                                     | Co-Ral (11.6%)   | 0.5 gal.   | 4 ozs.   | 0                                   |   |
| <u>Ear Tags</u><br>(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                                   | Once every 10 days. Do not treat calves under 6 months of age. Do not treat Brahman or                              |
|                                     | Saber Extra  | 10% Lambdacyhalothrin + 13% PBO  |          | 0                                   |   |
|                                     | Python   | 10% Zetacypermethrin + 20% PBO   |          | 0                                   |   |
|                                     |  |  |          |                                     |   |
| Lice<br><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<br>(other amitraz formulations available) | 1 pt.  | 1 oz.    | 0                                   |   |
| <u>Pour-ons</u><br>(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<br>8 mls. per 400 lbs. per body weight; 24 mls. for animals over 800 lbs.                           |          | 0                                   |   |
|                                     | Saber  | Apply down back line,<br>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    |                                     |             |
| <b><u>BEEF CATTLE: (cont'd)</u></b>                           |  |  |           |                                     |             |
| Cattle grubs<br><u>Pour-ons</u>                               | Ivomec (0.5%)<br>(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<br>*Stable flies<br>*Mosquitoes<br><u>Sprays</u> | Pyrethrins + Synergist<br>(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<br>(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<br><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><br>(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                     |                                     |  |
| <b><u>BEEF CATTLE: (cont'd)</u></b>  |   |  |                            |                                     |  |
| 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><br/>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 oz./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                          |                                     |  |
|  | Cydectin  | 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   |                                     |   |
| <b><u>SHEEP AND GOATS:</u></b>  |  |   |          |                                     |   |
| Keds  |  |   |          |                                     | <b><u>Sheep and Goats Limitations</u></b><br><b><u>Python:</u></b> 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                                   |   |
| <b><u>HOGS:</u></b>   |  |   |          |                                     |   |
| Lice  | Co-Ral (6.15% WP)                      | 2 qts.  | 4 ozs.   | 0                                   | <b><u>Hog Limitations</u></b><br><b><u>Co-Ral:</u></b> 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.   |
|   | Co-Ral 1% Dust                         | 1 oz. per animal, evenly  |          |                                     |   |
|   | Permethrin (spray)                     | numerous formulations; refer to labels.                             |          | 5                                   |   |
|   | Taktic (12.5% Amitraz)                 | 2 qts.  | 1.5 ozs. |                                     | <b><u>Ivermectin 1% Injectable:</u></b><br>Also controls certain other internal parasites.<br><br><b><u>Amitraz:</u></b> 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. |
|   | (other Amitraz formulations available) |   |          |                                     |   |
| Mange mites   | Permethrin                             | Numerous formulations; refer to labels.                             |          | 5                                   |   |
|   | Taktic (12.5% Amitraz)                 | 2 qts.  | 1.5 ozs. |                                     | <b><u>Permethrin:</u></b> Do not apply more than every two weeks. Spray to wet and run-off.   |
|   | (other Amitraz formulations available) |   |          |                                     |   |
| Lice  | Ivermectin 1%                          | Inject 1 ml. per 75 lbs. body weight                                |          |                                     | <b><u>Amitraz:</u></b> 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.   |
| Mange mites   | (Injectable Ivomec)                    | (Subcutaneous injection; not for intravenous or intramuscular use.) |          |                                     |   |
| <b><u>POULTRY:</u></b>  |  |   |          |                                     |   |
| Lice  | Rabon (50% WP)                         | 4 lbs.  | 4 ozs.   | 0                                   | <b><u>Poultry Limitations</u></b><br><b><u>Permethrin:</u></b> Apply one gallon of spray solution per 100 birds. Do not 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                                   | <b><u>Rabon:</u></b> For lice and mites, apply one gallon of spray solution per 100 birds. Do not reapply within 14 days.<br><br><b><u>Ravap:</u></b> Apply one gallon of spray solution per 100 birds. Do not reapply within 14 days.  |
| * Apply 1 gallon per 100-150 sq. ft. to walls, ceilings, and cracks and crevices. |  |   |          |                                     |   |

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

### INSECTICIDES FOR FLY CONTROL IN AND AROUND DAIRY BARNs (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.                        |