Grasshoppers may cause problems in Texas again this year. Pesticides labeled for hopper control in pasture, rangelands and non-crop areas are listed below. **Note: the restrictions are for beef cattle only. If these products are used on a dairy, refer to the label for information on harvest and grazing.**

**Insecticides Labeled for Grasshopper Control in Pastures or Rangeland**

**Malathion 57 EC**: Use 1 ½ to 2 pts per acre. There are no grazing or harvest restrictions.

**Malathion ULV**: Use 8-12 fluid ounces per acre. This product is specifically designed for aircraft and ground equipment capable of applying ultra low volumes. There are no grazing or harvest restrictions.

**Carbaryl: Sevin 4F and Sevin XLR**: Use ½ to 1 qt per acre. 
Restrictions:  
*Rangeland*: May be harvested or grazed the same day as application. Do not make more than one application per year.  
*Pasture*: Do not apply within 14 days of harvest or grazing. Do not exceed 3 3/4 pounds per acre per year. Up to two applications per year may be made but not more often than once every 14 days.

**Carbaryl: Sevin 4-Oil ULV**: Use 3/8 to 1 qt per acre. 
Restrictions: Do not make more than one application per year. May be harvested or grazed the same day as treatment. Do not apply more than one quart per acre per year.

**Carbaryl: Sevin 80 WSP**: Use 2/3 to 1 1/4 lb per acre. 
Restrictions:  
*Rangeland*: May be harvested or grazed the same day as application. Do not make more than one application per year.  
*Pasture*: Do not apply within 14 days of harvest or grazing. Do not exceed 3 3/4 pounds per acre per year. Up to two applications per year may be made but not more often than once every 14 days.
Methyl Parathion 4 lb/gal. Use 1½ pints per acre.
Restrictions: This is a restricted use product and is very toxic. Do not apply within 15 days of harvest or grazing. Helena Chemical Co. formulates their product under the trade name of 4 lb. Methyl Parathion. Griffin Chemical Co. formulates methyl parathion under the trade name of Declare.

Diflubenzuron: Dimilin 25W. Use 0.5 to 1.0 oz per acre. Do not exceed a total of 1.0 oz per acre per year. There are no harvest or grazing restrictions.

Diflubenzuron: Dimilin 2L. Use 0.5 to 1.0 fl oz per acre. Do not exceed a total of 1.0 fl oz per acre per year. There are no harvest or grazing restrictions.

**Non-Crop Areas**
(field borders, fencerows, roadsides, ditch banks borrow pits)

The products listed for pasture and rangeland in addition to acephate can be used for grasshopper control in these non-crop areas.

Acephate: Orthene 75SP and Orthene 97

Acephate: Orthene 75 SP use 1/3 lb per acre. Do not graze or feed vegetation cut from treated areas.

Orthene 97 use 1/4 lb per acre. Do not graze or feed vegetation cut from treated areas.

**Grasshopper baits**

Cereal grain baits formulated with carbaryl, Sevin XLR, can be used for grasshopper control.

**SEVIN XLR**

**DIRECTIONS FOR USE AS A CEREAL GRAIN BAIT:** FOR END USE ONLY. NOT FOR REPACKAGING. FOR USE ONLY BY GOVERNMENT PERSONNEL OR PERSONS UNDER THEIR DIRECT SUPERVISION (e.g., USDA, STATE AND LOCAL EXTENSION PERSONNEL, ETC.)

**Mixing Instructions**

Mix the appropriate amount of SEVIN® brand XLR Plus Carbaryl Insecticide with a cereal grain substitute (cereal grains or their by-products, such as flaky wheat bran, rolled wheat, rolled oats and/or barley or oat millings) to make a carbaryl bait containing 2% to 10% active carbaryl. For example, for a bait containing 5% carbaryl, mix 1 quart SEVIN® brand XLR Plus Carbaryl Insecticide (contains 1 lb. active carbaryl) with each 19 pounds of cereal grain substrate. Mix only the amount of bait necessary for each insect control program.
**Storage Instructions**
Store carbaryl bait in a cool, dry area out of reach of children and animals. Do not contaminate water, food, or feed by storage or disposal. **NOTE:** Carbaryl bait should only be stored temporarily while awaiting application.

**Application Instructions**
Applications may be made with ground equipment (hand cyclone spreader) or with aerial application equipment with a metered bait spreader attachment.

**PASTURES, RANGELAND, WASTELAND, ROADSIDES**
Use 0.50 lbs. active ingredient/acre for the control of grasshoppers and Mormon crickets. Use of oil bait assay is suggested for control of high grasshopper populations. Do not make more than 1 application per acre per year. May be harvested or grazed the same day as treatment.