#### The Role of Bees

Tiny as they are, honey bees play a key role in lowa's agroecosystem – to the tune of an estimated \$92 million annually as plant pollinators. Iowa beekeepers manage around 30,000 colonies of honey bees that produce well over 3 million pounds of honey annually. Many insecticides used to control insects can be poisonous to bees and other beneficial insects. Colonies of bees can be severely affected by improper use of insecticides. Lack of awareness, rather than intent to do harm, is the underlying cause of most bee poisoning incidents.

## Communicate Before Taking Action Beekeepers and pesticide applicators can reduce the risks to bees by

Beekeepers and pesticide applicators can reduce the risks to bees by communicating.

#### **Sensitive Crops Directory**

Beekeepers should list their apiary locations on the Sensitive Crops
Directory, created by the Iowa Department of Agriculture and Land
Stewardship. Pesticide applicators must consult the online Sensitive Crops
Directory to identify locations of Iowa sensitive crops and apiaries.

#### Iowa Bee Rule

This 30-year-old rule establishes cooperation between pesticide applicators and beekeepers to prevent unnecessary bee kills. A 2009 amendment changes the rule related to the application of pesticides near bees. This change has two parts, one regarding beekeepers and registration of their hives; the second applies to commercial applicators and pesticide applications. It states:

- Owners of apiaries, in order to protect their bees from pesticide applications, shall register the location of their apiaries with the state apiarist. Registration shall be on forms provided by the department. The registration expires December 31 each year and may be renewed the following year.
- Between 8 a.m. and 6 p.m., a commercial applicator shall not apply to blooming crops pesticides labeled as toxic to bees when the commercial applicator is located within one mile of a registered apiary. A commercial applicator shall be responsible for maintaining the one-mile distance from apiaries that are registered and listed on the sensitive crop registry on the first day of each month.

The amendment to the Bee Rule does not apply to private pesticide applicators. Private applicators need to follow pesticide label directions and precautions but are not subject to the application time restrictions outlined in the amendment.



# Resources To Better Understand Protecting Bees In Iowa

#### **Sensitive Crops Directory**

To search for or register a sensitive crop or apiary www.iowaagriculture.gov/Horticulture\_and\_FarmersMarkets/sensitiveCropDirectory.asp

#### **Iowa Department of Agriculture and Land Stewardship**

State Apiarist, Entomology Bureau | 2230 South Ankeny Boulevard | Ankeny, IA 50023 State Apiarist - PH: 515-725-1481 | Sensitive Crop Registry - PH: 515-242-5028

Pesticide Bureau | Wallace State Office Building | 502 E. 9th Street | Des Moines, IA 50319 PH: 515-281-8591

#### **Iowa State University**

Pesticide Safety Education Program | 109 Insectary | Ames, IA 50011 PH: 515-294-1101



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Protecting Bees in Iowa **What's Your Role?** 

IOWA STATE UNIVERSITY
Extension and Outreach

### **ACTIONS THAT PROTECT HONEY BEES**

#### DETERMINE NEED

Apply insecticides only when needed.

#### **AVOID DRIFT**

Do not allow insecticides to drift onto adjacent crops or weeds.

**USE ADDITIVES** 

When spraying close to

beeyards (apiaries) where

hives cannot be moved or

covered, use a drift reducing additive to minimize drift.

#### **PLAN APPLICATIONS**

Apply insecticides when bees are not visiting plants in the area. In general, evening applications are the least harmful to bees.

#### **MAKE BEST CHOICES**

Choose the least hazardous insecticide formulation and products whenever possible.

#### **SAFER FORMULATIONS**

Liquid or granular applications are less hazardous than dust. Microencapsulated forms of insecticides are most hazardous.

#### **READ LABEL**

Read and follow all label directions. If the insecticide is toxic to bees, there is a statement in the "Environmental Hazards" section of the label that states, "This product is toxic to bees..."

### SAFER PRODUCTS

Pyrethroids (e.g. Asana, Pounce) are less damaging to bees than organophosphates (e.g. Lorsban).

### Pesticide Applicators

#### Sala anna

Learn about the insecticides being used in your area. If insecticides with "highly toxic to bees" label statements are being applied to area crops, it may be best to move your hives if possible. The new site should be at least three miles away from the pesticide treated area.

### Beekeepers

### OPENLY COMMUNICAT

Notify growers and commercial applicators in the area of the exact location of your hives. Register your hive locations via the Sensitive Crops Directory, with the lowa Department of Agriculture and Land Stewardship.

### PLACE STRATEGICALLY

Place colonies away from fields that are likely to be treated with insecticides and where they will not be subjected to pesticide drift.

#### **MARK HIVES**

Make sure that your current address and phone number are legibly printed on your hives so that you can be contacted if necessary.

#### **CHECK ROUTINELY**

Inspect your apiaries
regularly so that any problem
from insecticide damage is
identified quickly and action can
be taken to rehabilitate the
apiary.