

# **2014 CenUSA Switchgrass Bioenergy Feedstock Field Day**

## **Fred Baxendale**

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# Insects Affecting Switchgrass

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# Switchgrass Insects

- **Few arthropods are known to seriously damage switchgrass**
- **Mostly prairie species inhabiting the Northern Great Plains**

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# Sampling for Switchgrass Insects



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# Potential Switchgrass Pests

- **Grasshoppers**
- **Chinch bugs**
- **Armyworms**
- **Cutworms**
- **Stalk borers**
- **Switchgrass moth**
- **Aphids: GB, YSA**
- **Gall midges**
- **White grubs**
- **Billbugs**
- **Wireworms**
- **Thrips**

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## Switchgrass Insect Management



- **Biology, behavior and damage**
- **Accurate identification**
- **Early detection (monitoring)**
- **Effective control**

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## Switchgrass Insecticides

### **Pyrethroids:**

Cyfluthrin (Baythroid)  
Cyhalothrin (Warrior)  
Cypermethrin (Mustang)  
Deltamethrin (Delta Gold)

### **OPs & Carbamates:**

Carbaryl (Sevin)  
Malathion

### **Biologicals:**

Azadirachtin (Neem)  
Bt (Dipel)  
Spinosad (Tracer)

### **Newer Chemistry:**

Chlorantraniliprole (Prevathon)  
Methoxyfenozide (Intrepid)

NO neonicotinoids currently labeled for switchgrass

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