

# **Turfgrass and Ornamental Pest Management: 2009**

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**Agronomy and Horticulture Services LLC**  
**2009**

PowerPoint presentations with photos and appropriate IPM strategies will be presented coupled with class participation and case studies. Case studies will be added as appropriate. Each section will last approximately 1 hour including questions and discussion for a total seminar contact time of 3 hours and 40 minutes.

8:30 am – IPM Strategy and Weed Control Strategy for Ornamentals and Turfgrass  
10:00 am – Morning Break (10 minutes)  
10:10 am – Common Insects and Disease Strategy for Ornamentals and Turfgrass  
12:30 noon- Adjourn

3 hours 40 minutes of direct training.

## **I. IPM, Diagnosing and Treating Turfgrass Insect Problems**

### **a. Common Warm Season Insect Problems and Control**

Mole Crickets  
Chinch bugs  
Grubs  
Ground Pearl  
Sod webworm  
Billbug

### **b. Common Cool Season Turfgrass Insect Problems and Control**

Chinch bugs  
Grubs  
Sod webworm  
Billbug  
Other...

## **II. Diagnosing and Treating Turfgrass Disease Problems**

### **b. Common Warm Season Turfgrass Diseases and Control**

1. Large Patch
2. Dollar Spot
3. Spring Dead Spot
4. Fairy Ring
5. Pythium

- 6. St. Augustinegrass Decline
- 7. Centipedegrass Decline
- 8. Nematodes
- b. Common Cool Season Turfgrass Diseases and Control
  - 1. Brown Patch
  - 2. Dollar Spot
  - 3. Fairy Ring
  - 4. Anthracnose
  - 5. Pythium
  - 6. Nematodes
- c. Basic Disease Control Strategies-
  - i. Manual or Mechanical
  - ii. Cultural
  - iii. Biological
  - iv. Physical
  - v. Chemical (with examples)
    - 1. Contact
    - 2. Systemic

### **III. Diagnosing and Treating Weeds**

- c. Solving Weed Problems
  - 1. Asking the right questions
  - 2. Identifying the Weed
  - 3. Evaluating solutions
  - 4. Considerations to consider when making recommendations
    - a. Legal issues
    - b. Business considerations
  - 5. Resources to help with problem solving
- b. Weed Biology
  - 1. Common Annuals
  - 2. Common Biennials
  - 3. Perennials
- c. Weed Control Strategies for Turf and Ornamental Beds
  - 1. Manual or Mechanical
  - 2. Cultural
  - 3. Biological
  - 4. Chemical (with examples)
    - a. Preemergent
    - b. Postemergent

### **IV. Diagnosing and Treating Common Ornamental Plant Insect Problems**

- a. Problem Solving
  - i. Asking the right questions
  - ii. Identifying the Problem

- iii. Evaluating solutions
  - iv. Considerations to consider when making recommendations
    - 1. Legal
    - 2. Business
  - v. Resources to help with problem solving
- b. Basic Insect Biology
- i. Morphology
  - ii. Physiology
  - iii. Life Cycle and Insect Control
- c. Basic Insect Control Strategies for Woody Ornamentals with Examples
- i. Manual or Mechanical
  - ii. Cultural
  - iii. Biological- natural controls
  - iv. Physical
  - v. Chemical (with examples)
    - 1. Contact
    - 2. Systemic
    - 3. Biological