



IMG Source: [cropwatch.unl.edu](http://cropwatch.unl.edu) (Corn Borer)

## Pest Influences

The United States Forest Service conducts studies on invasive and native pests. According to the Forest Service, “invasive pests are one of the primary sources of global change in climate and land use. Most of the invasions involve species transported by humans, either directly or indirectly.” We will discuss the life cycle and feeding habits of these invasive pest species and emphasize methods to manage their presence. It is also essential to remain aware of these species to reduce the likelihood of their introduction by humans into locations where they can wreak havoc.



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Cooperative Extension Program



Agriculture and Natural  
Resources

Prairie View A&M University's Cooperative Extension Program (CEP) Agriculture and Natural Resources (AgNR) unit seeks to empower farmers and ranchers to achieve their goals through education and technical assistance. AgNR aims to ensure a sustainable, profitable, and competitive food and fiber system in the State of Texas by addressing the knowledge gap facing many Texans in areas of crop production and utilization, livestock production, and economics and management for sustainable agriculture.

To learn more about how you can implement an Agriculture and Natural Resources program in your area, contact your local AgNR professional.

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IMG Source: [extension.umaine.edu](http://extension.umaine.edu) (Cucumber Beetle)

# Integrated Pest Management (IPM)

## Topics:

- Definition of IPM
- Pests vs. Predators
- Types of management
- Examples of each IPM type
- Biological Control methods



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## Considerations

### Farm and Garden Types

Each farmer or gardener grows and produces different plants and products, and deals with unique pests. The pest management methods vary depending on the crops grown. The strength of applied management is determined by the pest's chosen feeding site and on that site's importance to the grower.

### Organic Methods

Organic gardens are successful because they allow the cycle of nature to take place to eliminate pests. There are organic compounds that can be used to strengthen the plants against pest influences. However, methods such as trap crops, fallow fields, and predatory animals are the most favored management practices that enable natural patterns to occur and remove the use of harmful human-made practices. Organic methods also include the removal of human influence on the environment surrounding the farm or garden.



IMG Source: plantcaredtoday.com (Aphids)

### IPM Practices:

- See the differences between pest and beneficial organisms
- Understand beneficial symbiosis
- Become aware of the different pest and predatory species present in the garden
- Recognize the importance of land maintenance in preventing pests
- Prepare the land around the plants to enhance a natural variety
- Limit the use of pest control chemicals as an IPM option

*The IPM Program will provide unique techniques that depend on the environment. It is important to note that since there exists a variety of pests, there must also be a variety of management tools utilized.*

### Program Details

**Target Audience:** people of all ages who desire to control pests yet retain a presence of beneficial plant and animal species in the farm or garden

**Program Format:** the information will be presented through a slide presentation and with images and examples of different methods based on unique farm situations

**Program Objectives:** provide pest management resources to farmers and gardeners that maintain the natural environment on and near the farm/garden and create a friendly ecosystem for native animals and plants

### References:

U.S. Forest Service. Managing the Land: Invasive Species.  
<https://www.fs.fed.us/managing-land/invasive-species>