Mission
The NSF Center for Integrated Pest Management (CIPM) develops new strategies, analytics and decision support systems to advance IPM and plant biosecurity.

We serve and partner with government, industry, and university stakeholders locally, nationally, and internationally.

Vision
Champion innovative IPM and plant biosecurity strategies using data analytics and decision support systems to solve 21st century pest management challenges.

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Focus Areas

Social-Ecological Pest Analytics

eco-efficient crop protection

Pest management is crucial for ensuring a reliable food supply but there is concern about the impacts of pesticides on human health and the environment.

At CIPM, our aim is to reduce these harmful impacts by creating new strategies for eco-efficient crop protection. Eco-efficient crop protection uses big data, informatics, analytics, and situation modeling to help make pest management smarter.


Regulatory Pest Informatics

stopping pests at borders

CIPM works closely with federal and international stakeholders to safeguard U.S. agriculture and natural resources while facilitating international trade.

This focus area includes knowledge assimilation and analyses of pest biology, geographical distribution, host range, epidemiology and ecology; development of surveillance methods, identification and diagnosis; and modeling for pest prioritization, introduction, spread, establishment and economic impact.


Strategic Pest Management

fostering the development and adoption of IPM

The Southern IPM Center seeks to address issues at the state and regional level:

- Pesticide Resistance
- Regulatory Loss of Pesticides
- Environmental Change
- Public Opinion
- Grower Needs
- & New and Emerging Invasive Pests

SouthernIPM.org • IPMdata.ipmcenters.org

CIPM Projects

We partner with federal, state, international, and industry stakeholders in over 40 projects to develop innovative information solutions and address the challenges of invasive and domestic pests.

Our work spans across disciplines:

- Plant Pathology
- Crop Science
- Risk Analysis
- Data Science
- Economics
- Entomology
- Geospatial Analytics
- Ecology
- Computer Science