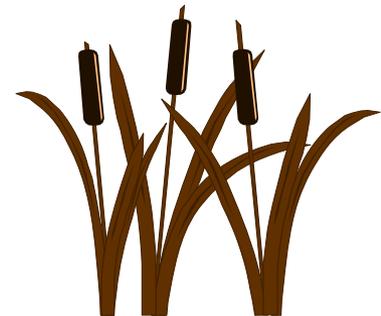


Pest Biology and Management Break Out Session

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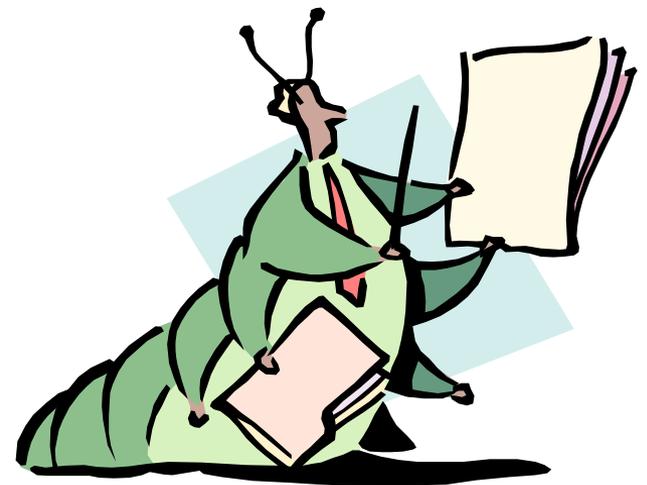
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Arthropod and Nematode Biology and Management Program Area:

10 Year Goals

- Biotic and abiotic factors affecting establishment and spread of species
- Framework for environmentally sound pest control



Significant Changes in 2008

Organization of programs in RFA :

One overall program area –"Arthropod and Nematode Biology and Management"

\$13 M

Program elements:

51.2A Organismal and Population Biology

51.2B Suborganismal Biology

51.2C Tools, Resources and Genomics

CAP: one time offering

51.2D Protection of Managed Bees



Important Deadlines

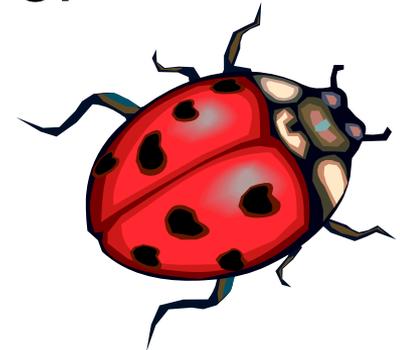
- **Watch for AFRI Program Announcement late November 2008 !!!**
- **Anticipated RFA released mid-January 2009**
- **Earliest LOI deadline early January 2009**
- **Earliest proposal deadline mid-February 2009**

Program Element 1:

51.2 A Organismal and Population Biology of Arthropods and Nematodes

Priorities

- Mechanisms affecting abundance of pests and beneficial species
- Organismal and population-level studies
- Ecological interactions with diseases or disorders



Funding Statistics

2008 panel: Organismal and Population
Biology of A&N

No. proposals submitted: 88

No. awarded: 19

Percent success: 19% (standard)

Average **standard** award size: \$385,000

Duration (years): 2 - 4 years

Budget: \$5.8 million



Program Element 2:

51.2 B Suborganismal Biology

Priorities

- Characterization at cellular, molecular level of biological processes
- Interactions with associated agriculturally relevant organisms (e.g., plants, animals, microbes)
- Mechanism of action of control tactics

Funding Statistics

2007 panel: Suborganismal Biology of A&N

No. proposals submitted: 40

No. recommended: 11

Percent success: 27% (standard)

Average **standard** award size: \$392,000

Duration (years): 2 - 4 years

Budget: \$3.6 Million

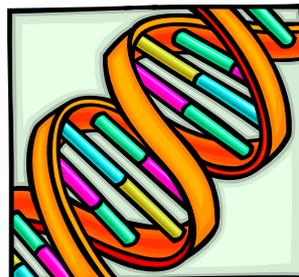


Program Element 3:

51.2 C Tools, Resources, Genomics

Priorities

- Mapping, identification, sequencing, and/or expression of genes
- Generate bioinformatic tools to manage and interpret sequence data
- Characterize the function(s) of genes or networks of genes



Funding Statistics

2007 panel: Genomics of A&N

No. proposals submitted: 26

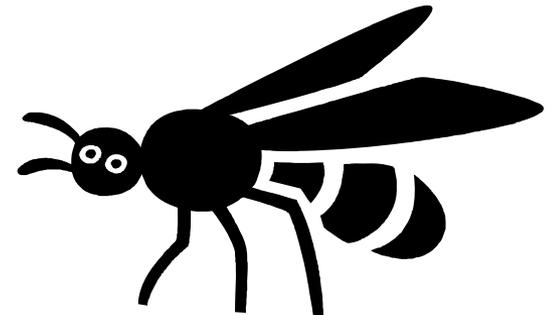
No. awarded: 9

Percent success: 27% (standard)

Average standard award size: \$559,000

Duration (years): 2-4 years

Budget: \$3.5 Million



Program Element 4: Protection of Managed Bees CAP

- One \$4 million grant awarded to University of Georgia and co-project directors at 15 universities
- Objective:
 - Study causes of CCD and other diseases
 - Restore large and diverse populations of managed bees to sustain natural and agricultural plant communities
 - Develop best management practices for beekeepers
- Impact: Improve overall health of honey bees and maintain yields of crops dependant on honey bees for pollination