NIFA: Research, Education, and Extension

National Institute of Food and Agriculture

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CSREES → NIFA

October 1, 2009

- Same authorities
- New Director
- New Chief Scientist
- New Organizational Structure
  - Subinstitutes
    - 5 priority science areas
- Bigger budget

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NIFA Budget

Budget	FY2010	FY2011
Total	$1,488,335,000	$1,500,336,000
Research & Education	792,510,000	843,379,000
*AFRI	(262,482,000)	(428,845,000)
Extension	494,923,000	479,203,000
Integrated	60,022,000	24,874,000
Mandatory	140,880,000	152,880,000

*$60,000,000 increase from FY2009

2010 AFRI Priorities

- AFRI will support interdisciplinary, multi-functional projects in five "societal challenge" areas :
  - Keep American agriculture competitive while ending world hunger
  - Improve nutrition and end child obesity
  - Improve food safety for all Americans
  - Secure America's energy future through renewable biofuels
  - Mitigate and adapt agriculture to variations in climate
- NIFA will issue a series of RFAs to address these program areas.
  - Grants in 2010 will be larger in size with funding up to $25 million
- $5 million in funding opportunities for pre- and postdoctoral fellowship grants will be offered.
- Foundational disciplinary programs
  - AFRI will support work in the following priority areas: plant health and production and plant products; animal health and production and animal products; food safety, nutrition, and health; renewable energy, natural resources, and environment; agriculture systems and technology; and agriculture economics and rural communities.

2009 USDA AFRI Air Quality Program Emphasis Areas

- Emission data from production practices – particulates, gases/odors
- Improved measurement protocols/instrumentation for within field and edge of field boundaries
- Practices for mitigating emissions
- Fate and transport of emitted particulates and gases

$5.3M awarded in 2009

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2009 AFRI Air Quality Highlights

- Texas Tech University, $597,321, Integrated Project: **Growth Promoters**, Wind, and Human/Ecological Health
- Ohio State University, $399,961, Large Eddy Simulations of PM Dispersion to Quantify the Effects of **Windbreaks** on Air Quality around CAFOs
- Colorado State University, $400,000, Emissions and Transport of **Reactive Nitrogen** from Cattle Feedlots along Colorado's Front Range
- Clarkson University, $400,000, Impacts of Manure Spreading Techniques on Downwind Air Quality: Particles, Ammonia, and **Bioaerosols**
- South Dakota State University, $599,966, Emission Measurement and Comparison with Management Techniques for Beef Deep- Bedded **Mono-Slope Facilities**
- Louisiana State University Agricultural Center, $595,995, Atmospheric Emissions of Nitrous Oxide, Methane, Ammonia, and Particulate Matter from Subtropical **Sugarcane** Production.

2009 AFRI Air Quality Highlights

- University of Minnesota, $399,273, New Constraints on the **Nitrous Oxide Budget** of Agricultural Ecosystems Growing in the Upper Midwest, United States
- West Texas A&M University, $113,724, Development of **Optical Fiber Sensors** and a Sensor Array for Continuous Monitoring of Ammonia Spatial Distribution in Animal Feedlots
- Utah State University, $599,879, **Novel Gradient-Based** and Surface Chamber Techniques for Monitoring Regulated and Greenhouse Gas Emissions from Animal Feeding Operations
- University of Minnesota, $597,806, Mitigation Monitoring and **Microbial Assessment** of Gas-Phase Biofilters and Extension Outreach
- California State University Fresno, $597,990, Air Quality **Impacts** of Dairy Facilities in Central California

Questions

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