CSREES
Air Quality Program

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May 16, 2008
Farm Bill - Research Title

• Reconstitute the Cooperative State Research, Education, and Extension Service (CSREES) as the "National Institute for Food and Agriculture" (NIFA). NIFA will assume all of the authorities, duties, and responsibilities of the former CSREES.

• Appoint a distinguished scientist nominated by the President and confirmed by the Senate for a six-year term as NIFA director.

• Rename USDA’s flagship competitive grants program, the National Research Initiative, as the Agriculture and Food Research Initiative (AFRI) with funding authorized at $700 million per year, with 60 percent of appropriated funds going to basic research and 40 percent to applied research programs. A minimum of 30 percent must be for integrated projects (those that integrate research with extension and/or teaching).

• The Under Secretary for Research, Education and Economics will become the USDA's "Chief Scientist" and retain jurisdiction over the Agriculture Research Service (ARS), the Economic Research Service (ERS), and the National Agricultural Statistics Service (NASS). The Under Secretary will have an expanded staff to be housed within a new "Research, Extension, and Education Office" (REEO) with six divisions.

• The REE Under Secretary will be charged with preparing an annual "Road Map" to guide all of the USDA science agencies.
Farm Bill - Research Title

- Congressional conferees provided $501 million in new mandatory spending from FY 2008 to FY 2012, as well as authorizing an additional $190 million per year in new "discretionary" spending subject to the annual congressional appropriations process. All of these new funds are to be used for targeted research and development programs administered by NIFA and distributed through peer-reviewed, competitively awarded grants, including:
  - **Organic Research**: $78 million total over the FY 2009-2012 period in mandatory funding and an additional $25 million per year authorized for appropriations.
  - **Specialty Crops Research**: $230 million total over the FY 2008-2012 period in mandatory funding and an additional $100 million per year authorized for appropriations.
  - **Beginning Farmer and Rancher Development Program**: $75 million total over the FY 2009-2012 period in mandatory funding and an additional $30 million per year authorized for appropriations.
  - **Biomass R&D (in Energy Title)**: $118 million total over the FY 2008-2012 period in mandatory funding and an additional $35 million per year authorized for appropriations.
NRI Air Quality Program

• Mature program with approximately 40 active projects each year
• Many high quality journal articles are produced each year
• Seven mitigation technologies have been developed and 3 of these technologies are in adoption phases through cost-share programs, standard practices, and conservation innovation grants
• Program has funded approximately $25,000,000 over 5 years with another $5,000,000 this year
• Several projects are leveraging NAEMS funding

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NRI Air Quality Program

• Application Due Date - June 5, 2008

• Award Size – up to $600,000 for 2-4 yrs (integrated)
• Award Size – up to $400,000 for 2-4 yrs (research)

• Eligibility – All universities and federal research labs

• Integrated program – integrates research, education, and extension

• 60% integrated / 40% research ($5,000,000)

• 24% success rate in 2007
2008 NRI Air Quality Program Emphasis Areas

• Emission data from production practices – particulates, gases/odors (more focus on crop production) including methane and nitrous oxide GHGs

• Improved measurement protocols/instrumentation for within field and edge of field boundaries

• Practices for mitigating emissions (integrated)

• Fate and transport of emitted particulates and gases with a new emphasis placed on dry deposition processes
Several special journal issues on agricultural air quality are now available

Draft assessment reports on emissions and best practices are under review

http://esa.org/AirWorkshop/
USDA/EPA Workshop on Animal Emissions Estimation Methodologies

• Two day workshop July 23-24, 2008 in RTP, NC
  – First day will be progress reports from NRI funded projects
  – Second day will review current emissions estimating methodologies and available science to produce process-based models and how to incorporate NAEMS data
Questions

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