



NATIONAL INSTITUTE OF FOOD AND AGRICULTURE
U.S. DEPARTMENT OF AGRICULTURE

NIFA

FY2011 PRESIDENT'S BUDGET PROPOSAL

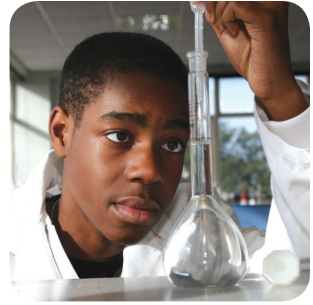


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Agricultural science at the **National Institute of Food and Agriculture (NIFA)** integrates research, education, and extension to ensure that groundbreaking research discoveries go beyond the laboratory and make their way into the classroom and to people who can put the knowledge into practice and improve their lives. **Research** enables development of the knowledge needed to solve many of the issues facing our nation. **Education** strengthens schools and universities to train the next generation of scientists, educators, producers, and citizens. **Extension** brings the knowledge gained through research and education to the people who need it most—in the United States and around the world.

NIFA works with the best and brightest scientists in the United States and around the world to find innovative solutions to global problems. Collaboration with historically black colleges and universities, Hispanic-serving institutions, and tribal colleges ensures the benefits of NIFA's resources extend to all Americans. With a timely, integrated approach and collaboration with other federal science agencies, NIFA also serves as a vital contributor in science policy decisionmaking.

NIFA supports the nation's food, fuel, and fiber production system and works across the federal science enterprise to provide innovative and needed solutions to other critical issues facing rural communities and American consumers. >>



IN FISCAL YEAR 2011, NIFA is seeking to expand the role and influence of science in agriculture, the environment, human nutrition, and communities through focused, problem-solving research, education, and extension activities. NIFA will focus resources on larger, longer programs to create substantial impacts in addressing critical issues facing the long-term viability of agriculture.

The agency's primary budget initiatives propose to expand:

- targeted efforts emphasizing high priority issues, including climate change, childhood obesity, and development of biofuels in a manner that assures agricultural productivity and sustainability, strengthens rural communities, and addresses global hunger;
- support for both fundamental science and applied research and education to the nation's best scientists and educators through Agriculture and Food Research Initiative competitive grants;
- linkages between producers, scientific discovery, and application of sustainable practices, through the Sustainable Agriculture Research and Education Program; and
- support for minority-serving institutions and program recipients.

FY2011 BUDGET HIGHLIGHTS

AGRICULTURE AND FOOD RESEARCH INITIATIVE

Increased funding will support the following high priority issues:

BIOENERGY: Funding will support the department's strategic goals of assisting rural communities to create wealth so they are self-sustaining, repopulating, and economically thriving, and help America promote agricultural production and biotechnology exports. The increased funding also will support centers for biomass production.

GLOBAL CLIMATE CHANGE:

Funding supports critical research on mitigation potentials and adaptive capacities of agricultural and environmental systems. Research funded via NIFA will provide vital information needed for USDA to implement an agriculture and forestry cap and trade system.

GLOBAL FOOD SECURITY:

Programs in this priority area will address pressing issues of global food security to help develop appropriate agricultural systems. Funds will create opportunities for interdepartmental initiatives and partnerships to deliver agricultural extension programs to at-risk nations.

NUTRITION AND HEALTH:

Projects will focus on identifying the behavioral factors that influence obesity; developing valid behavioral and environmental instruments for measuring progress in obesity prevention efforts; and nutrition research that leads to the development and evaluation of effective programs to prevent obesity. Projects also will address the micro-nutrient content of new cultivars of food crops.

FOOD SAFETY: Funds will be used to improve the safety of the U.S. food supply through new and improved rapid detection methods, pre- and post-harvest epidemiological studies, and improved food harvesting and processing technologies. NIFA will fund critical environmental and ecological research to improve our understanding of disease-causing micro-organisms, and of naturally occurring contaminants in meats, poultry, seafood, and fresh fruits and vegetables.

SUSTAINABLE AGRICULTURE

Research and extension activities will support systems research and farmer/rancher projects that will improve soil quality and carbon sequestration, save energy, and mitigate climate change. Extension activities will emphasize training on crop and livestock management to improve soil quality and carbon sequestration, save energy, and mitigate climate change, and marketing innovations that enhance profitability, such as local and regional food systems. Integrated activities will focus on a federal-state matching grant program to help create or enhance state sustainable agricultural research, extension, and education programs.

MINORITY PROGRAMS

To expand activities for minority-serving programs, requested funds will support an increase in the number of federally-recognized tribes being served by extension programs and pilot a food and nutrition program in a number of Native American communities through the competitively awarded Extension Services at the 1994 Institutions Program.

HISPANIC-SERVING AGRICULTURAL COLLEGES AND UNIVERSITIES (HSACU) ENDOWMENT FUND

The Hispanic/Latino community is the fastest growing sector of the American population. This investment in the Hispanic-Serving Agricultural Colleges and Universities is needed to ensure they can compete effectively for NIFA grants. Support for this endowment fund for HSACU will assist in the development of a skilled and marketable Hispanic student population for employment in the food and agriculture sector.

STEM EDUCATION

Funded activities will support the President's initiative to make science, technology, engineering, and mathematics (STEM) a national priority at all grade levels and help improve the rural economy through targeted research and education programs. The requested budget proposes increases in the Secondary Education, Two-Year Postsecondary Education, and Agriculture in the K-12 Classroom Grants Program and the Higher Education Institution Challenge Grants Program.

OTHER PROGRAMS

NIFA will continue funding for most other programs, including formula funded programs, in order to serve the nation's needs through exemplary research, education, and extension to address the many challenges that face agriculture, the environment, and nutrition. From production, nutrition, and food safety to energy independence and the sustainability of our natural resources, NIFA's investment in science secures America's future.

NATIONAL INSTITUTE OF FOOD AND AGRICULTURE (\$000)

PROGRAMS

FY 2010
APPROPRIATIONS
ACT

FY 2011
PRESIDENT'S
BUDGET

DISCRETIONARY FUNDING

RESEARCH AND EDUCATION ACTIVITIES:

Agriculture and Food Research Initiative	\$262,482	\$428,845
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FORMULA PROGRAMS:

Hatch Act	215,000	215,000
McIntire-Stennis Cooperative Forestry	29,000	29,000
Evans-Allen Program	48,500	48,500
Animal Health and Disease, Section 1433	2,950	2,950

SPECIAL RESEARCH GRANTS:

Expert IPM Decision Support System	156	156
Global Change, UV-B Monitoring	1,408	1,408
Integrated Pest Management & Biological Control	2,415	2,415
Minor Crop Pest Management, IR-4	12,180	12,180
Minor Use Animal Drug	429	429
National Biological Impact Assessment Program	0	184
Pest Management Alternatives	1,434	1,434
Other	87,192	0

OTHER RESEARCH:

Critical Agricultural Materials	1,083	1,083
Aquaculture Centers	3,928	3,928
Sustainable Agriculture Research and Education Program	14,500	15,000
Supplemental and Alternative Crops	835	835
1994 Research Grants	1,805	1,805
Joe Skeen Institute for Rangeland Restoration	983	983
New Era Rural Technology Program, Section 1473 E	875	875
Federal Administration (Direct Appropriation)	45,122	14,503
Farm Business Management and Benchmarking Program	1,500	0
Sun Grant Program	2,250	0

HIGHER EDUCATION:

Graduate Fellowships Grants	3,859	3,859
Institution Challenge Grants	5,654	8,154
1890 Institution Capacity Building Grants	18,250	18,250
Multicultural Scholars	1,241	1,241
Hispanic-Serving Institutions Education Grants Program	9,237	9,237
Tribal Colleges Education Equity Grants Program	3,342	3,342
Interest (Estimated) Earned on the Tribal Colleges Endowment Fund	4,267	4,650
Secondary Educ./2-Year Post Secondary, & Agriculture in the K-12 Classroom	983	3,483
Alaska Native-serving and Native Hawaiian-serving Institutions	3,200	3,200
Veterinary Medical Services Act	4,800	4,800
Resident Instruction Grants for Insular Areas	900	900
Distance Education Grants for Insular Areas	750	750

Total, Research and Education Activities	792,510	843,379
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INTEGRATED ACTIVITIES:

SECTION 406 LEGISLATIVE AUTHORITY:

Water Quality	12,649	0
Food Safety	14,596	0
Regional Pest Management Centers	4,096	0
Crops at Risk from FQPA Implementation	1,365	0
FQPA at Risk Mitigation Program for Major Food Crop Systems	4,388	0
Methyl Bromide Transition Program	3,054	0
Organic Transition Program	5,000	0

OTHER LEGISLATIVE AUTHORITIES:

International Science and Education Grants Program	3,000	3,000
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PROGRAMS

FY 2010
APPROPRIATIONS
ACT

FY 2011
PRESIDENT'S
BUDGET

(integrated activities: other legislative authorities, continued)

Critical Issues	\$732	\$732
Regional Rural Development Centers	1,312	1,312
Sustainable Agriculture Federal-State Matching Grant Program	0	10,000
Food and Agriculture Defense Initiative	9,830	9,830
Total, Integrated Activities	60,022	24,874

EXTENSION ACTIVITIES:

FORMULA PROGRAMS:

Smith-Lever Formula 3(b)&(c)	297,500	297,500
1890 Institutions	42,677	42,677

SMITH-LEVER 3(d) PROGRAMS:

Expanded Food and Nutrition Education Program	68,070	68,070
Pest Management	9,938	9,938
Farm Safety	4,863	0
New Technologies for Agricultural Extension	1,750	1,750
Children, Youth, and Families at Risk	8,412	8,412
Youth Farm Safety Education and Certification	486	486
Sustainable Agriculture	4,705	4,968
Federally-Recognized Tribes Extension Program	3,045	5,300

OTHER EXTENSION PROGRAMS:

Extension Services at 1994 Institutions	4,321	5,321
Renewable Resources Extension Act	4,068	4,068
Rural Health and Safety	1,738	1,738
1890 Facilities (Section 1447)	19,770	19,770
Food Animal Residue Avoidance Database Program (FARAD)	1,000	0
Grants for Youth-Serving Institutions	1,784	0
Women and Minorities in Science, Technology, Engineering, and Mathematics (STEM) Fields	400	400
Federal Administration	20,396	8,805
Total, Extension Activities	494,923	479,203

TOTAL, DISCRETIONARY FUNDING	1,347,455	1,347,456
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MANDATORY AND ENDOWMENT FUNDING

Hispanic-Serving Agricultural Colleges and Universities Endowment Fund	0	10,000
Tribal Colleges Endowment Fund	11,880	11,880
Organic Agriculture Research and Extension Initiative	20,000	20,000
Beginning Farmers and Ranchers Program	19,000	19,000
Biomass Research and Development	28,000	30,000
Healthy Urban Food Enterprise Development Center	1,000	1,000
Specialty Crop Research Initiative	50,000	50,000

IN ADDITION, THE FOLLOWING MANDATORY USDA PROGRAMS ARE ADMINISTERED BY NIFA:

Agriculture Risk Management Education Program	5,000	5,000
Biodiesel Fuel Education Program	1,000	1,000
Community Food Projects Competitive Grants Program	5,000	5,000

TOTAL, MANDATORY AND ENDOWMENT FUNDING	140,880	152,880
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TOTAL, DISCRETIONARY, ENDOWMENT, AND MANDATORY FUNDING	1,488,335	1,500,336
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NOTE: Outreach and Technical Assistance for Socially Disadvantaged Farmers and Ranchers Program was delegated to the Assistant Secretary for Civil Rights, Office of Advocacy and Outreach in FY 2010.

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