

Index to Charts: Guidance to US Department of Agriculture (USDA)

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USC MAPS

http://web-app.usc.edu/web/ra_maps

The DC Office of Research Advancement has created the Federal Mission Agency Program Summaries (MAPS) website to:

1. Connect PIs with appropriate funding agency programs/program officers
2. Assist in development of white papers/charts/elevator pitches

The website can be accessed using one's USC NetID and Password.

It has the following resources:

1. *Search Tab* for a searchable database of programs/program officers

At that website one can do keyword searches to locate the associated mission agency (DHS, DOD, DOE, DOT, ED, EPA, INTEL, NASA, NIST, NOAA and USDA) programs and program officers.

2. *Mission Agency Tab* (DHS, DHHS, DOD, DOJ, DOE, DOT, ED, EPA, INTEL, NASA, NIST, NOAA, USDA)

Guide to Agency Funding for FYXX

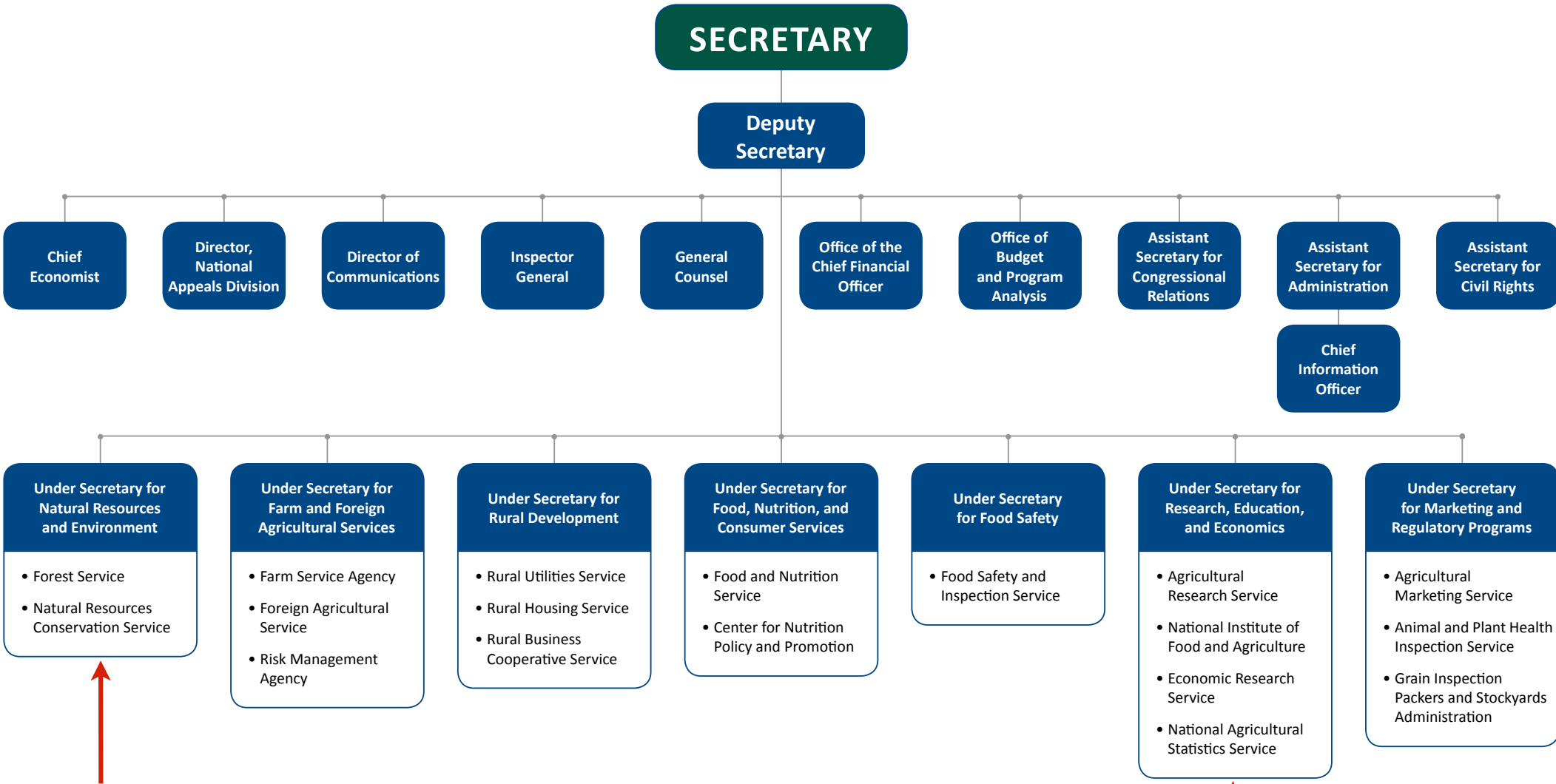
Agency Research Program Charts

Agency Planning Documents

Chart numbers in the text above reference the Agency Research Program Chart files.

3. *Presentation Tab* for charts from recent USC Center of Excellence in Research workshops
4. *Proposal Tab* for report / guides on writing proposals
5. *Email Alerts Tab* for URLs at which one can arrange for automatic solicitation updates
6. *Grantee Tab* for URLs at which one can find previous agency awardees

USDA Organization Chart



This organization chart displays the names of USDA offices, agencies, and mission areas. Each office, agency, and mission area is placed within a cell connected by lines to show the structure and hierarchy (Under Secretary, Deputy Secretary, or Secretary) for which they fall under. An HTML version that lists [USDA Agencies and Offices](#) and [USDA Mission Areas](#) is also available on [usda.gov](#).





The Organization of USDA'S NATIONAL INSTITUTE OF FOOD AND AGRICULTURE — 11.24.15

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NIFA Research Programs

<http://nifa.usda.gov/topics>

IFA supports research, educational, and extension efforts in a wide range of scientific fields related to agricultural and behavioral sciences. In all of these areas, you will find NIFA working in pursuit of our vision. To address contemporary agricultural challenges, we seek to catalyze transformative discoveries and enhance education and engagement.

Advanced Technologies

Bioenergy
Biotechnology
Nanotechnology

Animals

Animal Breeding
Animal Health
Animal Production
Aquaculture

Business and Economics

Markets and Trade
Natural Resource Economics
Small Business

Environment

Climate Change
Ecosystems
Invasive Pests and Diseases

Farming and Ranching

Agricultural Safety
Agriculture Technology
Farmer Education
Organic Agriculture
Small and Family Farms
Sustainable Agriculture

Food Science

Food Quality
Food Safety

Health

Nutrition
Obesity
Wellness

Natural Resources

Air
Forests
Grasslands and Rangelands
Soil
Water

People

Community Vitality
Family Well-Being
Youth

Plants

Crop Production
Pest Management
Plant Breeding
Plant Health

NIFA Research Programs (outside of AFRI) Open to Institutions of Higher Education

Specialty Crop Research Initiative

<http://www.csrees.usda.gov/fo/specialtycropresearchinitiative.cfm>

For More Information Contact Thomas (Tom) Bewick
Funding Opportunity Number USDA-NIFA-SCRI-003562

Plant Feedstock Genomics for Bioenergy (joint USDA and DOE)

<http://www.nifa.usda.gov/fo/fundview.cfm?fonum=1540>

For More Information Contact Ed Kaleikau
Funding Opportunity Number DE-FOA-0000770

Biomass Research and Development Initiative

<http://www.nifa.usda.gov/fo/fundview.cfm?fonum=2660>

For More Information Contact William Goldner
Funding Opportunity Number USDA-NIFA-9008-003828

Sustainable Agriculture Research and Education Program (SARE)

<http://www.nifa.usda.gov/fo/fundview.cfm?fonum=1130>

For More Information Contact Bradley Rein P.E.

Biotechnology Risk Assessment Research Grants Program (BRAG)

<http://www.nifa.usda.gov/fo/fundview.cfm?fonum=1075>

For More Information Contact Shing F Kwok
Funding Opportunity Number USDA-NIFA-BRAP-004069

National Integrated Water Quality Program (NIWQP)

<http://www.nifa.usda.gov/fo/fundview.cfm?fonum=1134>

For More Information Contact James P Dobrowolski
Funding Opportunity Number USDA-NIFA-ICGP-004309

NIFA University Centers of Excellence

<https://nifa.usda.gov/centers-excellence>

The 2014 Farm Bill requires NIFA to establish Centers of Excellence by October 2014 for food and agricultural research, extension, and education. The legislation requires NIFA recognize and give priority to applications from “Centers of Excellence” in all of its research and extension competitive grant programs.

To implement this provision, in fiscal years 2015 and 2016, NIFA allows eligible applicants to request consideration for Centers of Excellence(COE) designation as part of their grant applications. Requests for applications describe the criteria applicants must meet. A factsheet on the process, including the criteria for COE designation, a list of programs offering COE opportunities in fiscal years 2015 and 2016, and a description of the priority in funding provided to applications that meet the COE criteria is available below.

The following programs will be offering Centers of Excellence opportunities in fiscal year 2015

- Agriculture and Food Research Initiative – Foundational Program and Challenge Areas
- Aquaculture Research
- Biomass Research and Development Initiative
- Biotechnology Risk Assessment Research Grants Program
- Children, Youth, and Families at Risk
- Crop Protection/Pest Management
- Farm Business Management and Benchmarking
- Farm Safety and Youth Farm Safety Education and Certification
- Methyl Bromide Transition
- Organic Agriculture Research and Extension Initiative
- Organic Transition Program
- Rural Health and Safety Program
- Specialty Crop Research Initiative

USDA/NIFA

Agriculture and Food Research Initiative (AFRI)

<https://nifa.usda.gov/program/agriculture-and-food-research-initiative-afri>

Competitive Grants Program

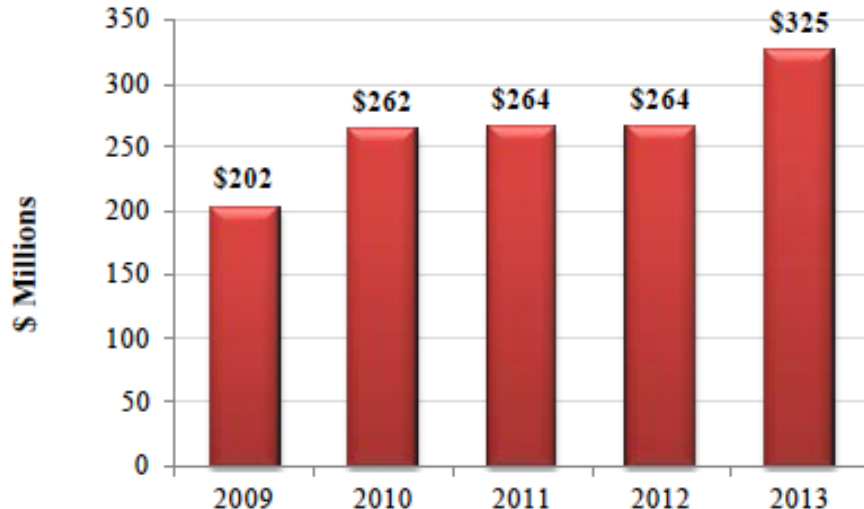
Overview

The Agriculture and Food Research Initiative (AFRI) at the National Institute of Food and Agriculture (NIFA) is charged with funding research, education, and extension grants and integrated research, extension, and education grants that address key problems of National, regional, and multi-state importance in sustaining all components of agriculture, including farm efficiency and profitability, ranching, renewable energy, forestry (both urban and agroforestry), aquaculture, rural communities and entrepreneurship, human nutrition, food safety, biotechnology, and conventional breeding.

Providing this support requires that AFRI advances fundamental sciences in support of agriculture and coordinates opportunities to build on these discoveries. This will necessitate efforts in education and extension that deliver science-based knowledge to people, allowing them to make informed practical decisions.

Project types supported by AFRI within this area include single-function Research Projects, multi-function Integrated Projects, and Food and Agricultural Science Enhancement (FASE) Grants.

Agriculture and Food Research Initiative



USDA/NIFA
**Agriculture and Food Research Initiative (AFRI)
Foundational Program**

What:

The Foundational Program RFA focuses on building a foundation of knowledge in fundamental and applied food and agricultural sciences critical for solving current and future societal challenges. Grant types supported by AFRI within this area include single-function Research Projects, multi-function Integrated Projects, and Food and Agricultural Science Enhancement (FASE) Grants.

Foundational Program addressing the six AFRI priority areas

- a) Plant Health and Production and Plant Products
- b) Animal Health and Production and Animal Products
- c) Food Safety, Nutrition, and Health
- d) Renewable Energy, Natural Resources, and Environment
- e) Agriculture Systems and Technology
- f) Agricultural Economics and Rural Communities

In addition, there are two new program areas:

- g) Critical Agricultural Research and Extension (CARE)
- h) Exploratory Research

Applications for AFRI funds may also be solicited through other announcements including supplemental AFRI RFAs or in conjunction with multi agency programs (see following charts)

How Much:

Standard Grants must not exceed \$500K total (including indirect costs) for project periods of up to 5 years. The amount available for support of this program in FY 2015 is approximately \$116M.

When: Letter of intent required by some subprograms, deadlines vary
Application deadlines vary by subprogram, mostly in Mar / Apr for 2015

Where: <http://nifa.usda.gov/page/search-grant>
<http://nifa.usda.gov/program/agriculture-and-food-research-initiative>

Agriculture and Food Research Initiative: Foundational Program

<http://nifa.usda.gov/fo/foundationalprogramafri.cfm>

	Program Code	Program Contact	FY2015 (\$M)
Plant Health and Production and Plant Products			20
Plant Growth and Development, Composition and Stress Tolerance	A1101	Liang-Shiou Lin	
Plant-Associated Insects and Nematodes	A1111	Mary Purcell-Miramontes	
Understanding Plant-Associated Microorganisms and Plant-Microbe Interactions	A1121	Ann Lichens-Park	
Controlling Weedy and Invasive Plants	A1131	Michael Bowers	
Plant Breeding for Agricultural Production	A1141	Ed Kaleikau	
Plant Photosynthetic Efficiency and Nutrient Utilization in Agricultural Plants	A1151	Shing Kwok	
Animal Health and Production and Animal Products			18
Tools and Resources for Animal Breeding, Genetics and Genomics	A1201	Lakshmi Matukumalli	
Animal Reproduction	A1211	Mark Mirando	
Animal Health and Disease	A1221	Peter Johnson	
Tools and Resources - Verterinary Immune Reagents	A1223	Peter Johnson	
US_UK - Animal Health and Disease	A1224	(not in FY15)	
Animal Nutrition, Growth and Lactation	A1231	Steven Smith	
Animal Well-being	A1251	Margo Holland	
Food Safety, Nutrition, and Health			9
Physical and Molecular Mechanism of Food Contamination	A1331	Jeanette Thurston	
Function and Efficacy of Nutrients	A1341	Deidra Chester	
Improved Processing Technologies	A1351	(not in FY15)	
Improving Food Quality	A1361	Jodi Williams	
Renewable Energy, Natural Resources, and Environment (RENRE)			3
Soil, Air and Water Processes in Agroecosystems	A1401	Ray Knighton	
Processes and Transformation in Soil, Water and Air	A1421	(not in FY15)	
Thresholds in Agroecosystems	A1431	(not in FY15)	
Management in Agroecosystems	A1441	(not in FY15)	
Agroecosystem Management	A1451	Michael Bowers	
Agriculture Systems and Technology			6
Nanotechnology for Agricultural and Food Systems	A1511	Hongda Chen	
Engineering, Products and Processes	A1521	Daniel Schmoltd	
Agricultural Economics and Rural Communities			19
Small and Medium-sized Farms	A1601	Denis Ebodaghe	
Entrepreneurship, Technology and Innovation	A1621		
Rural Families, Communities and Regional Development	A1631		
Economics, Markets and Trade	A1641	Robbin Shoemaker	
Environment and Natural Resource Economics	A1651	Fen Hunt	
Innovation for Rural Entrepreneurs and Communities	A1661	Robbin Shoemaker	
Critical Agricultural Research and Extension (CARE)			5
CARE	A1701	Martin Draper	

USDA NIFA AFRI **Exploratory**

What: This new program area encourages continuous development of innovative ideas that will position US Agriculture at the global forefront. These developments will lead to quantum leaps in the agricultural fields. They will address the challenges that have never been addressed before in the areas of food security, climate change, environmental quality and natural resources, nutrition, obesity, food safety, strong families and vibrant communities, and thriving youth.

This program area priority (program) provides support for research projects that develop proof of concept for untested novel ideas. This includes “high risk - high impact” work that will lead to a significant change in US agriculture.

This program area priority focuses on:

- New and emerging innovative ideas;
- Application of new knowledge or approaches;
- Tools required to have a paradigm shift in the field; and/or
- Rapid response to natural disasters and similar unanticipated events.

How Much: not exceed \$100K total (including indirect costs) for project periods of up to 2 years and are not renewable. Total funds available in FY2015 ~\$2M

When: Letter of Intent any time between 1 Mar and 31 Aug 2015

Where: 2015 USDA NIFA AFRI Foundational Program Solicitation
Ms. Charlotte Kirk Baer, program officer

USDA/NIFA
**Agriculture and Food Research Initiative (AFRI)
Challenge Programs**

<http://nifa.usda.gov/program/agriculture-and-food-research-initiative>

Childhood Obesity Prevention

This RFA identifies integrated and conference/workshop program objectives, eligibility criteria and application instructions for each project type. A successful project will include all three functions of the agricultural knowledge system (i.e., research, education and extension) within a project, focused around a problem or issue.

The amount available for support of this program in FY 2015 is approximately \$6M.

Climate Variability and Change

In FY 2015, applications are sought in the following priority areas:

- 1) Climate and Microbial Processes in Agroecosystems;
- 2) Climate Resilient Land Use for Agriculture and Forestry; or
- 3) Synthesis and Assessment of USDA NIFA's Climate Investments.

The amount available for support of this program in FY 2015 is approximately \$5M

Food Safety

In FY 2015, applications are sought in the following priority areas:

- 1) Enhancing Food safety through Improved Processing Technologies
- 2) Effective Mitigation Strategies for Antimicrobial Resistance

The amount available for support of the AFRI Food Safety Challenge Area program in FY 2015 is approximately \$6M.

Food Security

In FY 2015, applications are sought in the following priority areas:

- 1) Agricultural Production Systems
- 2) Breeding and Genomics of Crops and Livestock
- 3) National Strategy for Sustainable Crop and Livestock Production in the United States

The amount anticipated to be available for support of this program in FY 2015 is approximately \$17M

Sustainable Bioenergy

No new awards in FY2015

Water for Agriculture

NIFA is soliciting applications for the 2015 Water for Agriculture Challenge Area Program in the following program priority areas:

- 1) Water Availability for Diverse Agricultural Uses: The Right Water for the Right Place and Times;
- 2) Understanding Decisions and Behaviors Connected with Agriculture and Post-harvest Processing Industry Water Use; and
- 3) Understanding the Human Health Impacts to Exposure from Nontraditional Water Used in Agriculture.

The amount anticipated to be available for support of this program In FY 2015 is approximately \$9M

USDA/NIFA - Agriculture and Food Research Initiative

Challenge Area Programs

	Program Code	Program Contact	\$M FY2015
Childhood Obesity Prevention Challenge Area http://nifa.usda.gov/fo/childhoodobesityafri.cfm			6
Integrated Approaches to Prevent Childhood Obesity	A2101	Deirdre Chester	
Integrated Approaches to Prevent Childhood Obesity	A2111	Jane Clary Loveless	
Regional Centers of Excellence	A2151	Helen Chipman	
Agricultural and Natural Resources Science for Climate Variability and Change Challenge Area http://nifa.usda.gov/fo/africlimatchange.cfm			5
Climate and Microbial Processes in Agroecosystems	A3141	(not in FY15)	
Climate and Microbial Processes in Agroecosystems	A3143	Nancy Cavallaro	
Climate Resilient Land Use for Agriculture and Forestry	A3144	Nancy Cavallaro	
Synthesis and Assessment of USDA NIFA's Climate Investments	A3145	Rachel Melnick	
Food Safety http://nifa.usda.gov/fo/foodsafetyafri.cfm			6
Enhancing Food Safety through Improved Processing Technologies	A4131	Hongda Chen	
Addressing Critical and Emerging Food Safety Issues	A4141	(not in FY15)	
Effective Mitigation Strategies for Antimicrobial Resistance	A4171	Mervalin Morant	
Identifying and Targeting Critical Food Safety Needs	A4172	(not in FY15)	
Improving the Safety of Fresh and Fresh Cut Produce	A4181	(not in FY15)	
Food Security Challenge Area http://nifa.usda.gov/fo/afriglobalfoodsecurity.cfm			17
Food Security Conference or Workshop	A5050	(not in FY15)	
Minimizing Losses from Pests and Diseases of Crops	A5151	(not in FY15)	
Minimizing Losses from Pests and Diseases of Livestock	A5152	(not in FY15)	
Agricultural Production Systems	A5160	Mathieu Ngougjio	
Breeding and Genomics of Crops and Livestock	A5161	Edward Kaleikau	
National Strategy for Sustainable Crop and Livestock Production in the US	A5162	Nancy Cavallaro	
Sustainable Bioenergy Challenge Area http://nifa.usda.gov/fo/sustainablebioenergyafri.cfm			
Development and Sustainable Production of Regionally appropriate Biomass	A6101	(not in FY15)	
Impacts of Regional Bioenergy Systems on Water Availability and Quality	A6126	(not in FY15)	
Water for Agriculture http://www.nifa.usda.gov/fo/waterforagricultureafri.cfm			9
Water Availability for Diverse Agricultural Uses	A8101	James Dobrowolski	
Understanding Decisions/Behavior Connected with Agric and Post Harvest Processing	A8102	James Dobrowolski	
Understanding the Human Health Impacts fo Exposure from Non traditional Water in Agrirc	A8103	James Dobrowolski	

Agricultural Research Service

In-house Research Arm of the USDA

<http://www.ars.usda.gov/Research/Research.htm>

The ARS is the in-house research arm of the USDA. Every single ARS research project is peer reviewed by scientific panels to ensure the continued excellence of the agency's research. The panels consist mainly of non-ARS scientists. The reviews are arranged through the Office of Scientific Quality Review.

Each research project is a part of one or more of 18 ARS National Research Programs. These programs are planned in consultation with many people inside and outside ARS. This ensures that the programs are relevant to priority needs.

[Animal Production and Protection](#)

<u>Food Animal Production</u>	(NP #101)
<u>Animal Health</u>	(NP #103)
<u>Veterinary, Medical, and Urban Entomology</u>	(NP #104)
<u>Aquaculture</u>	(NP #106)

[Nutrition, Food Safety, and Quality](#)

<u>Human Nutrition</u>	(NP #107)
<u>Food Safety (animal and plant products)</u>	(NP #108)
<u>Quality and Utilization of Agricultural Products</u>	(NP #306)

[Natural Resources and Sustainable Agricultural Systems](#)

<u>Water Availability and Watershed Management</u>	(NP #211)
<u>Climate Change, Soils, and Emissions</u>	(NP #212)
<u>Bioenergy</u>	(NP #213)
<u>Agricultural and Industrial Byproducts</u>	(NP #214)
<u>Pasture, Forage and Rangeland Systems</u>	(NP #215)
<u>Agricultural System Competitiveness and Sustainability</u>	(NP #216)

[Crop Production and Protection](#)

<u>Plant Genetic Resources, Genomics and Genetic Improvement</u>	(NP #301)
<u>Plant Biological and Molecular Processes</u>	(NP #302)
<u>Plant Diseases</u>	(NP #303)
<u>Crop Protection and Quarantine</u>	(NP #304)
<u>Crop Production</u>	(NP #305)
<u>Methyl Bromide Alternatives</u>	(NP #308)

Every research location is directly managed by one of our eight area offices located around the country. Management of our overall research enterprise is provided through headquarters offices in Washington, D.C., and nearby Beltsville, Md.

USDA Forest Service

Research and Development

<http://www.fs.fed.us/research/>

Forest Service R&D has a long history of supporting extramural research through grants and agreements to colleges and universities ([a July 1 2013 search of grants.gov did not show any solicitation in the past 5 years](#)); state, local, and tribal governments; nonprofit organizations; industry; and individuals. The organization consists of seven research stations and 80 experimental forests and ranges. Forest Service R&D interacts with national forests in nine regions and with the agency's State and Private Deputy Area throughout the United States. Forest Service R&D is also allied with agencies in the USDA Research, Education, and Economics mission area, including the Agricultural Research Service (ARS), National Institute of Food and Agriculture, National Agricultural Statistics Service, and ARS' National Agricultural Library. Forest Service R&D also partners with other federal agencies, non-governmental organizations, universities, and the private sector.

The Forest and Rangeland Research appropriation provides funds to develop and deliver knowledge and innovative technology to improve the health and use of the Nation's forests and rangelands in public and private lands. Funding maintains key research associated with the Strategic Program Areas (SPAs) and Priority Research Areas (PRAs). The PRAs are the mechanism Forest Service R&D uses to address urgent current and emerging broad-level issues. Within the PRAs, multiple areas may be addressed which are funded through the SPAs (long-term research programs including fire, wildlife, invasives, among others).

R&D is organized into the primary topics listed below.

- Invasive Species: Reduces, minimizes, or eliminates the introduction, establishment, spread, and effects of invasive species.
- Inventory, Monitoring & Analysis: Identifies current status and trends of forests; management options and effects; and threats and their effects on the Nation's forests and grasslands species.
- Outdoor Recreation: Examines to understand and manage outdoor environments, activities, and experiences that connect people with the natural world.
- Resource Management & Use: Explores forest and range resources and products, including Agroforestry, Forest Products, Landscape Science, Management & Operations, and Urban Research.
- Water, Air & Soil: Enables clear air and safe drinking water, protection of lives and property from wildfire and smoke, and adapting to climate variability and change.
- Wildland Fire & Fuel: Focuses on reducing the negative and enhancing the beneficial effects of fire.
- Wildlife & Fish: Investigates the complex interactions among species, ecosystem dynamics and processes, land use and management, and emerging threats.

Joint Fire Science Program

Department of Interior and USDA Forest Service

<https://www.firescience.gov/index.cfm>

What: The Department of the Interior and the Forest Service collaborate on a program in Fire Science that is to:

- Provide credible research tailored to the needs of fire and fuel managers
- Engage and listen to clients and then develop focused, strategic lines of new research responsive to those needs
- Solicit proposals from scientists who compete for funding through a rigorous peer-review process designed to ensure the best projects are funded
- Focus on science delivery when research is completed with a suite of communication tools to ensure that managers are aware of, understand, and can use the information to make sound decisions and implement projects

Funding Opportunity Announcements for FY2016

- 16-1-01 Implications of changing ecosystems in selected regions
- 16-1-02 Social and regulatory barriers and facilitators to implementing prescribed fire
- 16-1-03 Maintenance and restoration of sagebrush habitat in the Great Basin
- 16-1-04 Effects of fire on tree mortality
- 16-1-05 Post-fire landscape management
- 16-2-01 Graduate Research Innovation (GRIN) Award
- 16-3-01 New Science Initiative - Ecological and social dimensions of resilient landscapes
- 16-4-01 FASMEE - Fuels and consumption
- 16-4-02 FASMEE - Fire behavior and energy
- 16-4-03 FASMEE - Plume development and meteorology
- 16-4-04 FASMEE - Smoke emissions, chemistry, and transport
- 16-4-05 FASMEE - Modeling Leads

How Much: depends on solicitation

When: For the 2015 solicitations the due date was 21 Nov 2014

Where: https://www.firescience.gov/JFSP_funding_announcements.cfm