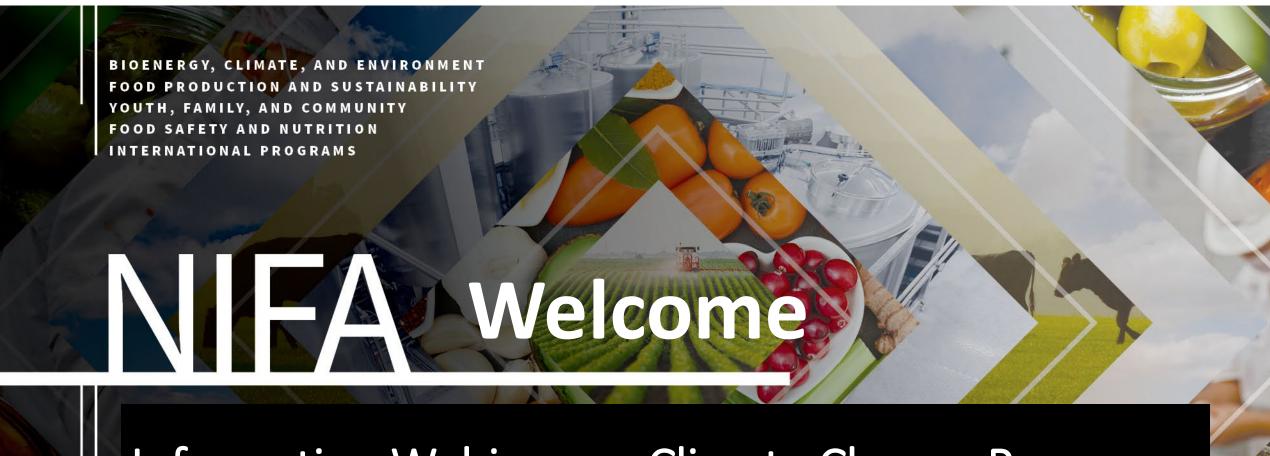
Welcome to NIFA's Information Webinar on Climate Change Programs

- All participants are automatically muted by webinar administrators.
- Feel free to enter questions in the Q&A Box.
- We will be monitoring both the Q&A Box and the chat.
- During the Q&A session, participants will have a chance to unmute and ask questions.
- This webinar will be recorded and made available to the public.



Information Webinar on Climate Change Programs

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Presidential Executive Order: Tackling the Climate Crisis at Home and Abroad

"America's farmers, ranchers and forest landowners have an important role to play in combating the climate crisis and reducing greenhouse gas emissions, by sequestering carbon in soils, grasses, trees and other vegetation and sourcing sustainable bioproducts and fuels."

- Executive Order on Tackling the Climate Crisis at Home and Abroad, Jan. 27, 2021



USDA Strategic Plan: FY 2022 - 2026:

Strategic Goals:

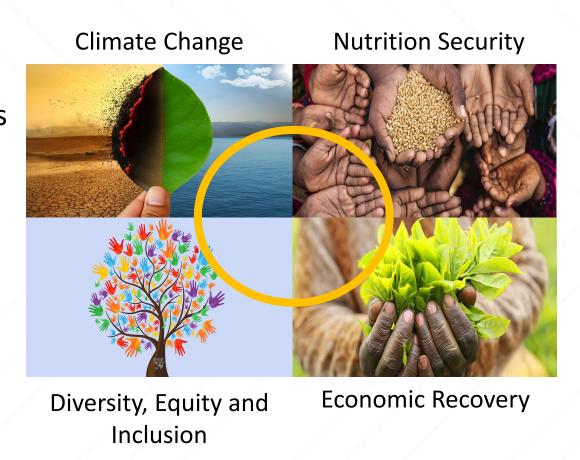
- 1) Combat climate change to support America's working lands, natural resources and communities
- 2) Ensure America's agricultural system is equitable, resilient and prosperous
- 3) Foster an equitable and competitive marketplace for all agricultural producers
- 4) Provide all Americans safe, nutritious food
- 5) Expand opportunities for economic development and improve quality of life in rural and tribal communities
- 6) Attract, inspire and retain an engaged and motivated workforce that's proud to represent USDA

Strategic Goal 1: Combat Climate Change to Support America's Working Lands, Natural Resources and Communities

- 1.1 Use Climate-Smart Management and Sound Science to Enhance the Health and Productivity of Agricultural Lands
- 1.2 Lead Efforts to Adapt to the Consequences of Climate Change in Agriculture and Forestry
- **1.3** Restore, Protect and Conserve Watersheds to Ensure Clean, Abundant and Continuous Provision of Water Resources
- 1.4 Increase Carbon Sequestration, Reduce Greenhouse Gas Emissions and Create Economic Opportunities (and Develop Low-Carbon Energy Solutions)

NIFA: Driving Innovation in Research, Education & Extension

- Fill knowledge gaps & identify opportunities
- Spur innovation & accelerate change
- Empower individuals and communities
- Synergize across diverse priorities



Roadmap for Webinar

Programs Highlighted:

- Extension, Education & USDA Climate Hubs Partnership (A1721)
- Sustainable Agroecosystems: Health, Functions, Processes and Management (A1451)
- Rapid Response to Extreme Weather Events Across Food and Agricultural Systems

(A1712)

Data Gateway and How to Use It

Question & Answer Session



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Extension, Education & USDA Climate Hubs Partnership (A1721)

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Extension, Education and USDA Climate Hubs Partnership A1721

Proposed Budget Requests: \$1,500,000 total per project for project periods of 3–5 years

Project Types: Extension Projects or Integrated (Extension and education) Projects, and a CAP project

Grant Types:

- Standard
- FASE
 - Strengthening Standard & New Investigator
- Application Deadline:
 - 2022: October 6, 2022, at 5 p.m. EDT
- Contact: Dr. Lydia Kaume, <u>lydia.kaume@usda.gov</u>, (816) 642-4607





Meet the A1721 Team



Amy Ganguli Sustainable Agroecosystems



Lydia KaumeNutrition



Maurice Smith
4-H positive youth
development
programs &
Workforce
Development



Adam Wilke Social Science



Erica Kistner-ThomasEntomology



Charlotte Tuttle Economist



Andres Cibils
Animal Science



Steve Thompson
Agricultural Systems,
Crop Production

Climate Hubs Partnership Program Area Priority Description

Supports projects that provide *effective*, *translatable* and *scalable* approaches to address climate change through **regional partnerships** including the USDA Climate Hubs and Extension (e.g., the Cooperative Extension Service)

USDA Climate Hubs

- Unique collaboration across USDA agencies
 - 10 Regional Hubs led by Agricultural Research Service (ARS), Forest Service (USFS), and the Natural Resources Conservation Service (NRCS)
- <u>Vision</u>: Robust and healthy agricultural production and natural resources under increasing climate variability and change
- <u>Mission</u>: Develop and deliver science-based, region-specific information and technology to agriculture and natural resource managers to...
 - Science and data syntheses, tool and technology development, outreach and engagement



Further Information:

climatehubs.usda.gov

Intent of the Program

Regional partnerships including the USDA Climate Hubs and Extension

- 1. Net-zero emissions agriculture;
- 2. Working lands adapted to climate change;
- 3. A diverse workforce that can effectively communicate about climate change with a variety of stakeholders and can incorporate climate considerations into managing working lands; and
- 4. Climate justice including equity in opportunities and burden-sharing

Broad emphasis areas include:

 Training on climate-smart food systems, including effects of climate on nutrition security and components of nutrient density, food safety and food waste

Coordinated Agricultural Project For Climate-Smart Agriculture

- National Climate-Smart Extension Initiative to connect and extend national and regional Extension programs
 - create community-based and culturally appropriate approaches to CSAF practices,
 - mitigation of agricultural greenhouse gas emissions,
 - resilient food systems, and nutritional security in rural and urban communities.

Extension, Education and USDA Climate Hubs Partnership A1721

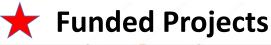
Broad emphasis areas include...

- K-12 teacher or Extension educator training for climate learning
- Public and private sector technical service provider training
- Climate-smart food systems training, e.g. food waste, nutrition security
- Programming for underserved/underrepresented groups that considers diverse literacy and language skills

Inaugural Year Overview (FY 2021)

- 6 projects funded for \$9 million
- 9 of the regional Climate Hubs were included in the partnership submissions
 - 8 included in awards
- 5 awards led by academic institutions and 1 led by the Caribbean Climate Hub
- 3 Extension projects and 3 integrated Extension and Education projects





Enabling Climate-Smart Decisions for Agriculture and Forestry in the U.S. Caribbean

- USFS/ Caribbean Climate Hub
- All Agroecosystems



Extension Project

- Develops & delivers region- and sectorspecific climate information & train-thetrainer material (in Spanish and English)
- Actions support adoption of adaptation and mitigation practices that reduce GHG, sequester C, build resilience

Native Climate: Strengthening the Role of Climate Besert Research Institute Hubs in Indian Country

- SW and NP Climate Hubs
- Crops and Rangelands



Extension Project

- Creates a Native Climate regional partnership to address place-based adaptation resources and issues of climate justice and inequities
- Supports Native Climate Fellows and Native Climate Reporters
- Develops a Native Climate Toolkit

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Sustainable Agroecosystems: Health, Functions, Processes and Management (A1451)

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Amy Ganguli NPL



Amber Campbell PS



Adam Wilke NPL



Diomy Zamora NPL



Andi Thompson PA

Institute of Bioenergy, Climate, and Environment

Meet the A1451 Team

Sustainable Agroecosystems: Health, Functions, Processes and Management (A1451)

Proposed Budget Requests: \$650,000 total per project for project periods of 3–4 years;

\$800,000 with specific partnerships

Project Types: Research projects only

Grant Types:

- Standard
- FASE
- Strengthening Standard & New Investigator
- Seed Grants (\$300,000)
- Conference or Equipment Grants (\$50,000)
- Application Deadline:
 - 2022: September 15, 2022, at 5 p.m. EDT
- Contact: Dr. Adam Wilke, adam.wilke@usda.gov, (970) 556-2517



Sustainable Agroecosystems A1451 Program Snapshot



Research Projects Only



Diverse Systems (Managed)



Focus: Ecosystem Health & Production

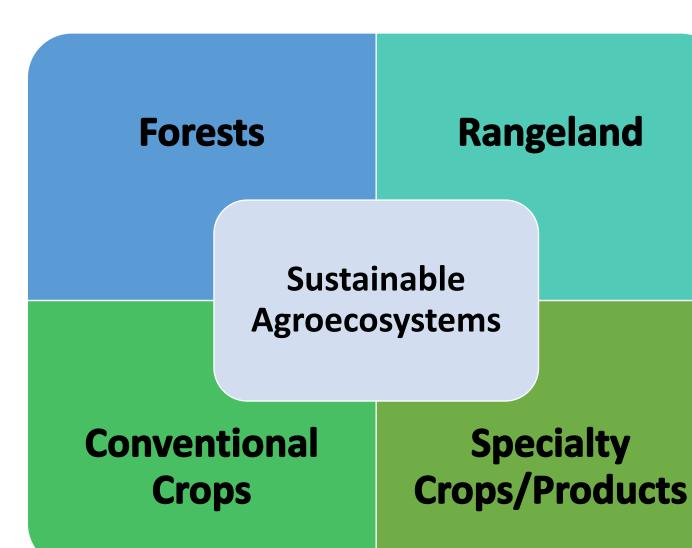


Emphasis: Ecosystem Services



Biophysical & Social Sciences

Spectrum of Research Projects



A1451 Priority Area Details



Improvement of ecosystem health and productivity in managed systems currently under stress



Advance scientific understanding of processes and interactions



New management or conservation practices with a focus on ecosystem services

Innovative strategies to maintain or improve productivity while enhancing ecosystem services

Approaches that increase ecosystem health and resilience, along with the output or value of more than one ecosystem service

Connection of ecosystem health to production system functionality, productivity, socioeconomic viability, sustainability, biodiversity and the production of other ecosystem services



Conference Awarded

Conference on 'Making Climate-Smart Agriculture Work'

https://agmip.org/making-climate-smart-agriculture-work/

Integrating science, modeling and economics to help farms, ranchers and foresters mitigate and adapt to the challenges of climate change

Virtual Conference May 24 – 26, 2022







Source: AGRICULTURAL AND ENVIRONMENTAL GEOGRAPHIC INFORMATION SYSTEMS submitted to

MAKING CLIMATE-SMART AGRICULTURE WORK

Sponsoring Institution	National Institute of	Project Status	NEW	
	Food and Agriculture	Funding Source	AFRI COMPETITIVE	
			GRANT	
Reporting Frequency	Annual	Accession No.	1028070	
Grant No.	2022-67019-36398	Project No.	VA.W-2021-12628	
Proposal No.	2021-12628	Multistate No.	(N/A)	
Program Code	A1451	Project Start Date	Dec 1, 2021	
Project End Date	Nov 30, 2022	Grant Year	2022	

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Rapid Response to Extreme Weather Events Across Food and Agricultural Systems (A1712)

INVESTING IN SCIENCE | SECURING OUR FUTURE | WWW.NIFA.USDA.GOV USDA IS AN EQUAL OPPORTUNITY PROVIDER, EMPLOYER, AND LENDER Rapid Response to Extreme Weather Events Across Food and Agricultural Systems (A1712)

Proposed Budget Requests: \$300,000 total per Standard and Strengthening Standard project for project periods of 12 months

Project Types: Extension or Integrated (research and Extension) Projects <u>only</u> for Standard/Strengthening Standard

Grant Types:

- Standard, Strengthening Standard & New Investigator
- FASE
- Application Deadline:
 - 2022 Standard and Strengthening Standard: submitted within 21 calendar days after LOI decision response
- Contact: Dr. Amy Ganguli, amy.ganguli@usda.gov, (816) 642-0813



Meet the A1712 Team



ASHLEY MUELLER

National Program Leader, Institute of Youth, Family, and Community



COURTENAY SIMMONS

Program Specialist, Institute of Food Safety and Nutrition



MICHELLE COLBY

National Program
Leader, Institute of
Food Production and
Sustainability



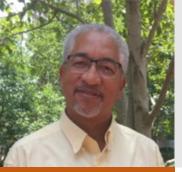
DANIELLE FARLEY

Program Specialist, Institute of Food Production and Sustainability



DERECKA ALEXANDER

AAAS Fellow, Institute of Food Production and Sustainability



PETER THOMPSON

Division Director,
Institute of Bioenergy,
Climate, and
Environment



ANDIE THOMPSON

Program Assistant, Institute of Bioenergy, Climate, and Environment



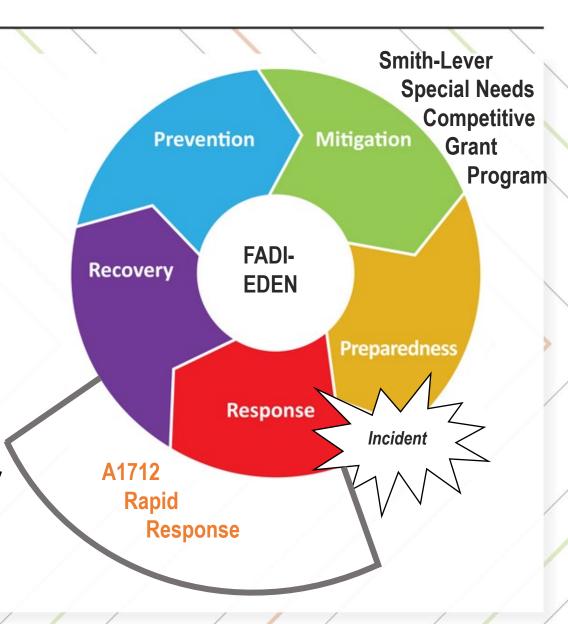
AMY GANGULI

National Program Leader, Institute of Bioenergy, Climate, and Environment

A1712 Program Rationale

Climate change exacerbates the risk of extreme weather-related disasters, caused by naturally occurring hazards that often disrupt agricultural, forestry and rangeland production systems.

In addition to land degradation, agricultural supply chains are often adversely impacted by these disasters at production, processing, storage, distribution and consumption stages.



A1712 Program Purpose







Designed to rapidly deploy strategies and fill knowledge and information gaps to protect the nation's food and agricultural supply chains during and after weather-related disasters.

Strategies should buffer effects from disasters and ensure availability of an accessible, safe, nutritious, affordable and abundant food supply.

Projects must directly address effects associated with an extreme weather event or disaster.

Applicants will have the opportunity to justify the need for funding based upon localized impacts.

A1712 Program Information

Funded projects are expected to **provide** solutions that may include trainings, communication strategies, tools and technologies, food supply logistics, and climate-smart practices that can be rapidly adopted by various end-users, as well as explain how adoption potential of proposed solutions will be measured.



FY 2022 AFRI RFA, page 98
7h. Rapid Response to Extreme Weather Events
Across Food and Agricultural Systems

https://nifa.usda.gov/sites/default/files/rfa/FY22-AFRI-FAS-RFA-508-Fv2.pdf



A1712 Program Details

This program seeks applications that:



Focus on critical and urgent solutions in rapid response to disaster impacts on the nation's food and agricultural systems.



Clearly describe short-term deliverables within 3 months of award receipt.



Clearly define the geographic scope of the project as related to the weatherrelated event or disaster. Applications must address one or more of the following:



Agroecosystem Resilience



Commodity & Nutrition Security



Health, Well-Being & Safety

Additional Resources







Program Area Priority Website:

https://nifa.usda.gov/grants/programs/rapid-response-extreme-weather-events-across-food-agriculture-systems-a1712

Fact Sheets
Informational Webinars

Available on the Program Area Priority Website

AFRI Request for Applications:

https://nifa.usda.gov/sit es/default/files/rfa/FY22 -AFRI-FAS-RFA-508-Fv2.pdf

A1712 starts on page 98

NIFA Climate Programs (summary)

- Climate-relevant programs are found throughout NIFA's funding priority areas — not just in the areas we highlighted.
- When in doubt, reach out to NIFA program staff to inquire about program fit!



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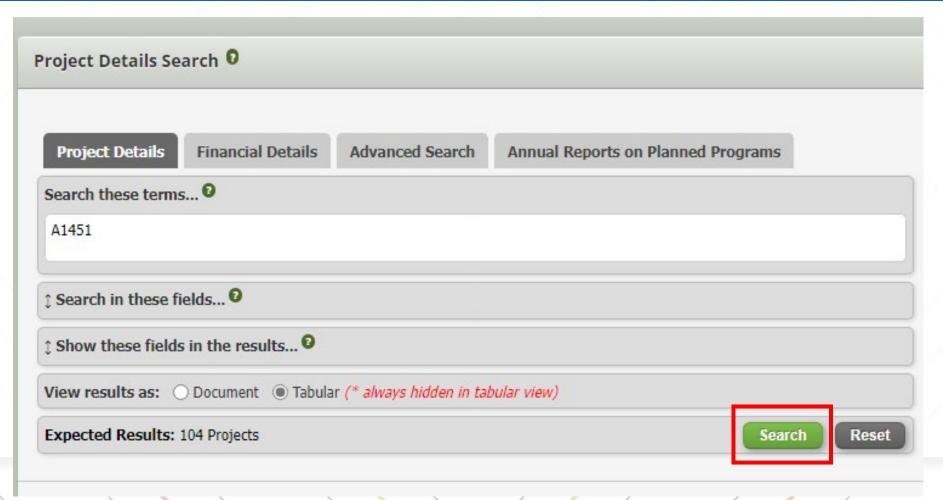
NEA

NIFA Data Gateway

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Get to know funded projects: NIFA Data Gateway

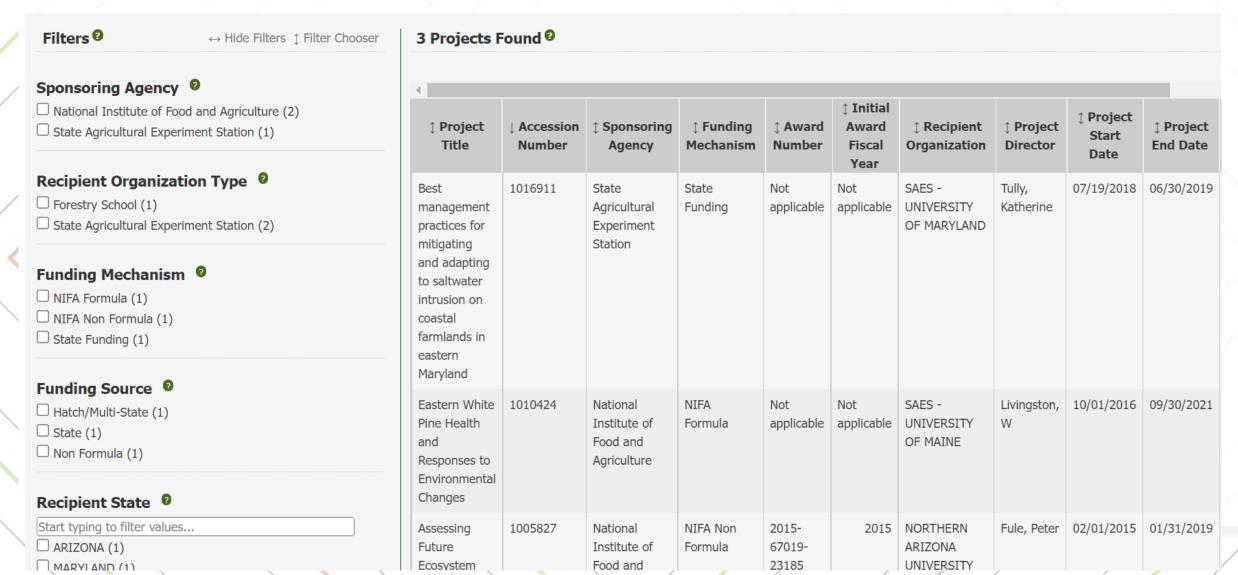
https://portal.nifa.usda.gov/enterprise-search/project_details





NIFA Gateway Results for A1451

https://portal.nifa.usda.gov/enterprise-search/project_details



Non-Discrimination Statement

https://www.usda.gov/non-discrimination-statement

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- Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotape, American Sign Language, etc.) should contact the responsible agency or USDA's TARGET Center at (202) 720-2600 (voice and TTY) or contact USDA through the Federal Relay Service at (800) 877-8339. Additionally, program information may be made available in languages other than English.
- To file a program discrimination complaint, complete the USDA Program Discrimination Complaint Form, AD-3027, found online at How to File a Program Discrimination Complaint and at any USDA office or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call (866) 632-9992. Submit your completed form or letter to USDA by: (1) mail: U.S. Department of Agriculture, Office of the Assistant Secretary for Civil Rights, 1400 Independence Avenue, SW, Washington, D.C. 20250-9410; (2) fax (202) 690-7442; or (3) email: program.intake@usda.gov.
- USDA is an equal opportunity provider, employer and lender.

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Questions?

Feel free to enter questions in the Q&A box or raise your Zoom hand, so the web administrators can give permission to speak.

NIFA

Contacts for Programs Highlighted Today:

Lydia Kaume: Lydia.Kaume@usda.gov

Adam Wilke: Adam.Wilke@usda.gov

Amy Ganguli: Amy.Ganguli@usda.gov

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