Land Grant University
To You
(LGU2U)

Funding Connections and Programming
Session 2
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LGU2U - Session 2
Funding Connections and Programming

Today’s Topics

How competitive and capacity funds are used and managed.

Insights from NIFA staff about fund management and accountability.

How impact reports are used by NIFA.

The data used to describe LGU capacity.
LGU2U - Session 2
Funding Connections and Programming

Panel Discussion

Dr. Beverly Durgan – University of Minnesota
Dr. Carolyn Lawrence-Dill – Iowa State University
Dr. Shibu Jose – University of Missouri
Dr. Orlando McMeans – Southern University Ag Center
University of Minnesota Extension
Extension 2022-23 Budget: $79 M

Grants, Gifts and Income
($10 M in Federal...)

State: 36.8%

County: 22.8%

Federal (Smith...): 13.5%

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Federal Capacity Funds

Smith Lever (EFNEP and RREA):
- Flexibility
  - To respond
  - To partner
  - Leverage other funding
Federal Capacity Funding allows flexibility to Respond to Disasters
Forest Assisted Migration Project
Climate Smart Forestry

Extension, University & Community Partnerships

- Master Gardeners and Master Naturalists collect seeds
- Tree Seed drop off locations at 11 Regional Offices
- UMD Forest Research supports project
- RSDP providing facilitation and leadership
- The Nature Conservancy, MN Power, farmers…
Partnerships

Extension faculty positions with NDSU
• Potatoes production
• Sugarbeet production
• Sugarbeet weed management
• Sheep Production
• Nutrition
Across Minnesota's 87 counties and First Nations

- 4-H is Minnesota’s largest youth development organization, growing leaders in every part of the state
  - 125,000 youth
  - 15,000 volunteers
Learning and Leadership

Grace Lavan wins MN State Conservation Award from the MN DNR by studying pipeline impacts on wolves

Teen teachers share about how they are teaching children to reduce and repurpose plastic on the news

Nicole Cash wins the National Youth in Action Award in STEM for robotics design for toddlers with disabilities
# Key Partner--Volunteers

<table>
<thead>
<tr>
<th>Hours Given</th>
<th>Programs</th>
<th>Volunteers</th>
<th>Partnering Organizations</th>
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<tbody>
<tr>
<td>233,194</td>
<td>• Master Gardeners</td>
<td>3,690</td>
<td>131</td>
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<tr>
<td></td>
<td>• Master Naturalists</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>• Aquatic Invasive Species Detectors</td>
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<td></td>
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<tr>
<td>Average</td>
<td></td>
<td>63</td>
<td></td>
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<tr>
<td>Hours</td>
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<td>$7.5 million</td>
<td></td>
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<tr>
<td>Per Volunteer</td>
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<td>Value to Extension</td>
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Supershelf makes the healthy choice the easy choice

Behavioral economic principles are used when developing SuperShelf layouts

Shoppers take the most of what they encounter first

Signage is available in several different languages
Extension’s website – Connecting with MN

- 13M pageviews (up 11%)
- 8M users (up 18%)
- 63% access via mobile
- 83% come from searches
- Users rate pages on average 4.54 out of 5 stars (n=5,865)
- Most popular content:
  - dairy nutrition, houseplants, growing fruit, garden insects, horse health, soil management and nutrients, Extension courses and events
Federal Competitive Funds

AFRI (NIH, DOD, CDC):

• Partnership with other Colleges
  • Many non-extension college programs are funded by grants
    • School of Public Health
    • Medical School
  • Leverage other funding
  • Build our capacity in non-traditional extension program areas
“Climate-smart” decision-making

Minnesota Climate Adaptation Partnership (MCAP):

- Climate resilience = Mitigation + Adaptation
- Multi-agency partnership, collaborations across sectors and levels of government

- Opening the window of opportunity for liquid manure application in northern, increasingly unpredictable climates (AFRI)
CYFAR (Workforce)

- Partnership between Youth Development and Family Development
- 5-year federal funding
- Minneapolis and Moorhead
- STEAM clubs, campus immersions & parent ed
- Educational pathways
Agriculture & Animal Science - Workforce

- Partnership between Youth Development and Agriculture, Food and Natural Resources
- Global Agricultural Learners - AFRI grant
- Animal science education, showcase events, animal disease outbreaks and biosecurity education efforts
Rural Stress: Mental Wellbeing of Youth & Farm Families

USDA Partnership with 16 Midwest states

- Community meeting with key stakeholders in Todd, Polk and Norman counties
- Multidisciplinary Extension team Family Resiliency, 4-H, and Agriculture, Food and Natural Resources
- Mental wellbeing resources for county fairs and community events
- Provided suicide education to over 150 professionals & community members
We are NOW implementing goals proposed by Federal Partners

NIFA - National Framework for Health and Wellness
Opioid Use Disorder (NIH)
Diabetes (NIH)
Vaccination Hesitancy (CDC)
Military Families & Service Providers (DOD)
University Partnerships with a Purpose

- Medical School
- Public Health
- College of Pharmacy
- College of Education & Human Development
- Institute on Community Integration
- Tribal Partners
University of Minnesota Extension

Thank You!
CALS/AES @ Iowa State University

How Capacity and Competitive Processes can Overlap and be Mutually Beneficial

Unique Partnerships across LGUs
Fourteen Departments:
Agricultural & Biosystems Engineering
Agricultural Education & Studies
Agronomy
Animal Science
Biochemistry, Biophysics, and Molecular Biology
Ecology, Evolution & Organismal Biology
Economics
Flood Science & Human Nutrition
Genetics, Development & Cell Biology
Horticulture
Natural Resource Ecology & Management
Plant Pathology, Entomology and Microbiology
Sociology and Criminal Justice
Statistics
Ag Experiment Station Funds

FY22 Experiment Station Budget was $35,134,245

State Appropriations   $29,462,535    ~ 84%
Federal Appropriations  $5,671,710    ~ 16%

Spending federal funds & match requires an approved capacity project.
Office of Research & Discovery
Ásrún Kristmundsdóttir

- New AES coordinator?
- Competitive Pre-Award CARES Team

+ Darwin Campbell
Data Analyst
Capacity Funds, esp. Hatch & Hatch Multistate

**Hatch**
- Primarily salary support
- Equipment and Infrastructure Competition
  
  *Benefits to the competition!*
  
  CoSPRT
  
  Coordination

**Hatch Multistate**
- $ to travel to official meetings
- $ to hold a meeting
- PD gets these benefits, can designate another
An unlikely connection? University of Virgin Islands
Capacity and Competitive Funding: The University of Missouri

Shibu Jose
Associate Dean for Research & Director, MO Experiment Station
Capacity Funds: Driving Our Research Mission

▶ Capacity Funds
  ▶ Over 90% in faculty salary
  ▶ Capacity Funds + State match is the lifeline of our College, CAFNR
  ▶ It drives our research mission in CAFNR
  ▶ Enable our faculty to bring in additional extramural competitive funding

Congressman William H. Hatch of Missouri

The Hatch Act of 1887 Laid the foundation for Agriculture research in the US

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<td>5,085,221</td>
<td>5,050,095</td>
<td>5,054,180</td>
<td>5,394,173</td>
<td>5,373,901</td>
<td>5,353,629</td>
<td>5,356,905</td>
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<td>Hatch Multi-State</td>
<td>1,084,126</td>
<td>1,087,692</td>
<td>1,090,593</td>
<td>1,168,379</td>
<td>1,166,861</td>
<td>1,170,661</td>
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<td>McIntire-Stennis</td>
<td>631,995</td>
<td>629,776</td>
<td>631,352</td>
<td>673,887</td>
<td>671,695</td>
<td>653,703</td>
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<td>Animal Health</td>
<td>38,828</td>
<td>54,002</td>
<td>54,666</td>
<td>61,095</td>
<td>57,469</td>
<td>59,150</td>
<td>55,389</td>
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<tr>
<td>Total</td>
<td>6,840,170</td>
<td>6,821,565</td>
<td>6,830,791</td>
<td>7,297,534</td>
<td>7,269,926</td>
<td>7,237,143</td>
<td>7,243,622</td>
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<table>
<thead>
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<th>Projects</th>
<th>People</th>
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<tr>
<td>Hatch</td>
<td>41</td>
<td>96</td>
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<tr>
<td>McIntire-Stennis</td>
<td>8</td>
<td>13</td>
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<tr>
<td>Multi-State</td>
<td>30</td>
<td>36</td>
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MU CAFNR Research Enterprise

- **6** Divisions
- **188** Ranked Faculty
  - 101.5 (11%) Research FTE
- **105** Postdocs
- **4** Research Extension and Education Centers (REECs)
- **325** Staff
- **430** Graduate Students
- **2600** UG Students
Double Awards and Expenditures

FY 22
62.7M in Awards
55.2M in Expenditures

Leveraging capacity funds by 8X
The Impact: Advancing Agriculture

Why is Ag Research Relevant?

We contribute to the R&D to support Ag, Food and Natural Resources in MO and beyond

Together, Agriculture ($93.7B) & Tourism ($17B) contribute 33% to MO GDP

- Correlating Soil Health Parameters, Agriculture Production and Environmental Services Across A Diversity of Landscapes and Production Practices
- Discovery of genetic resources and improvement of drought tolerance in soybean
- Improving Production Efficiency and Reliability of Cropping Horticultural Crops
- Advancing the Genotype to Phenotype Relationship Through Genomics in Livestock
- Understanding habitat use and spatial ecology of fish and wildlife populations in forested landscapes
- Developing Management Strategies for Healthy Forests
- Economic analysis of contemporary agricultural and environmental policy issues to inform public policy
The Impact: Economic Growth
Partner or Perish

- Patterning with Lincoln University (1890)
- Other 1890s, 1862s, Federal and State agencies, Private Sector
- A new opportunity to partner with the Osage Nation
  - Thanks to the vision of a donor, late Mr. Doug Allen, an endowment was established (another way to leverage federal funds!)
  - A professorship in agroforestry created in 2009 ($3M)
  - A new research farm (valued at $1M; donated by Mr. Allen), Land of the Osages, established in 2019 ($6M)
MU Partnership with the Osage Nation

- MU is a Land Grant University founded on Osage lands via the 1862 Morrill Act
- Agroforestry is rooted in Indigenous knowledge, science, and practices

- MU Land of the Osages Research Farm
  - Potential for collaborative food, agriculture, and natural resources research with Osage Nation

- Transforming challenges into opportunities
  - Increasing Native presence & visibility at MU
  - Seeking meaningful collaborative research
  - Training for intercultural competence
Some of the Initial Successes

- Osage Nation Harvest Land Farm orchard design (2019-2020)
- Agroforestry Training Academy scholarships for Osage participants (2 participants fully funded by MU)
- Archaeological survey at Land of the Osages Research Center led by Osage staff
- Peer reviewed publications in co-authorship with Osage Nation experts

- **USDA NIFA New Beginning for Tribal Students grant program**
  MU-Osage Food & Ag Program for Tribal Student Recruitment, Engagement, and Success  |  $497,378  |  2021-2025
  - Summer experiential learning program for Osage HS students (five students in summer 2022 along with a mentor)
  - Scholarships for Osage students in CAFNR (four set up; one current student)
  - Learning exchange & training for project staff
LGU2U – 1890 PERSPECTIVE ON USDA-NIFA FUNDING

Presented by:
Orlando F. McMeans, Ph.D.  
Chancellor-Dean
Southern University Agricultural Research and Extension Center
The 1890 land-grant institutions are historically black universities that were established under the Second Morrill Act of 1890. NIFA's 1890 land-grant institutions programs are intended to strengthen research, extension, and teaching in the food and agricultural (and forestry) sciences by building the institutional capacities of the 1890 Institutions.
LGU2U – 1890 PERSPECTIVE
ON USDA-NIFA FUNDING

1890 INSTITUTIONS MAP
LGU2U – 1890 PERSPECTIVE ON USDA-NIFA FUNDING

THERE ARE NINETEEN 1890 INSTITUTIONS

- Alabama A&M
- Alcorn State University
- Central State University
- Delaware State University
- Florida A&M University
- Fort Valley State University
- Kentucky State University
- Langston University
- Lincoln University
- North Carolina A&T State University
- Prairie View A&M University
- South Carolina State University
- Southern University and A&M College
- Tennessee State University
- Tuskegee University
- University of Arkansas Pine Bluff
- University of Maryland Eastern Shore
- Virginia State University
- West Virginia State University
LGU2U – 1890 PERSPECTIVE ON USDA-NIFA FUNDING

HOW CAPACITY AND COMPETITIVE FUNDS ARE USED

Let’s discuss...

- Capacity funds are foundational for 1890s
- Funding to support research and extension faculty/staff and programming
- Leveraging and matching
LGU2U – 1890 PERSPECTIVE
ON USDA-NIFA FUNDING

CAPACITY BUILDING FUNDS

- Evans Allen
  - Research staple funding for 1890s
  - The ceiling is 30% of Hatch

- 1890 Extension
  - Extension/Outreach staple funding for 1890s
  - The ceiling is 20% of Smith Lever

- 1890 Facilities Funding
  - Annual allocation of funding to support building and renovations of Agricultural facilities and related infrastructure in connection with R/E/T

- Due to limited amount of annual allocation: Often must accrue funding over years for larger construction and renovation projects.
- Cost of construction over 20% greater after pandemic.
- 1890s have received some criticism for having a significant amount of funding carried over
1890 Capacity Building Grants (CBG) Program

- Funding to build and strengthen capacity for 1890s in research, extension, and teaching
LGU2U – 1890 PERSPECTIVE ON USDA-NIFA FUNDING

MCINTIRE STENNIS CAPACITY GRANT

- To increase forestry research in the production, utilization, and protection of forestland
- To train future forestry scientists; and to involve other disciplines in forestry research
- State Government to certify eligible institutions and coordinate state programming
- M-S Capacity grant recipients are to provide matching, either cash or in-kind, on a dollar-for-dollar basis on all federal funds allotted
LGU2U – 1890 PERSPECTIVE ON USDA-NIFA FUNDING

OTHER KEY PROGRAMS & FUNDING

- **1890 Scholarship Program**
  - Newest 1890 program
  - The purpose is to increase the number *(and quality)* of students studying agriculture, food, natural resource sciences, and other agriculture-related disciplines
  - Legislation allocates $500,000 in mandatory funding per 1890 Institution

- Up to an additional $500,000 in discretionary funding per 1890 Institution
- Each 1890 has received $1,000,000 in scholarship funding annually
- Southern University’s 1890 Scholarship program is called Jag S.T.A.R.S. *(Student Training in Academics, Research and Service)*
LGU2U – 1890 PERSPECTIVE ON USDA-NIFA FUNDING

CHALLENGES

- **1890s Low Submission of AFRI Grants**
  - USDA-NIFA encourages 1890s to apply
  - 1890s are discouraged based on early low success rates
  - AFRI requires a matching component on a dollar-for-dollar basis of the federal allocation.
  - Still encourage 1890s to apply for AFRI

- **State Match**
  - 1890s are federally mandated to match its research and extension formula funding 1 to 1 with a non-federal match
  - Commonly referred to as a “State Match”
    - Currently, a number of 1890s do not meet the match and are forced to request a waiver
    - A minimum of 50% match is required (and the other 50% can be waived at the discretion of the Secy. of Ag) or else lose federal funding
    - While 1890s continue to advocate for increases in USDA federal research and extension formula funds, it also exacerbates the issue around meeting the state match requirement
LGU2U – 1890 PERSPECTIVE ON USDA-NIFA FUNDING

QUESTIONS?
LGU2U – 1890 PERSPECTIVE
ON USDA-NIFA FUNDING

Thank You!
LGU2U - Session 2
Accountability for Competitive and Capacity Funding

Deb Hamernik
Deputy Director
Institute of Food Production & Sustainability

LGU2U Phase II Program
November 17, 2022
Accountability:

• **Competitive** programs:
  • NIFA relies on the peer-review process to recommend projects for funding
  • NPL (as the program contact) oversees peer-review process and follows recommendations from peer-review panel to make funding decisions

• **Renewal applications:**
  • Peer reviewers evaluate progress as described in renewal application
  • Also review final progress report in NIFA Data Gateway
AREERA Capacity Funding

- **AREERA Plan of Work (5 years)**
  - **Project or Program Initiations (5 years)**
  - **Results (Annual & Final)**
  - **AREERA Annual Report of Accomplishments**

LGU: Merit or Scientific Peer Review

NIFA: Administrative Review
Accountability (continued):

- **Capacity programs:**
  - Funding allocated directly to LGU
  - Directors decide how to spend capacity funds
    - Salaries
    - Seed grants to enhance competitiveness
    - Start-up or retention packages
    - Long-term or high risk/high reward projects (breeding, germplasm preservation, ecological studies, etc.)
    - Items hard to fund through competitive programs (databases, monitoring, etc.)
  - LGU conducts merit or scientific peer review of projects and programs
  - NIFA conduct administrative review
NIFA Administrative Review Capacity Initiations:

• Usually NPL (sometimes Division Director)
• Align NIFA subject matter expertise with scope of project/program
• Administrative review focuses on ensuring:
  • Compliance with **legislative purpose of the funding/federal laws** and **NIFA guidelines**.
  • Alignment with the mission of the **USDA-NIFA** and is relevant to **food and agricultural sciences** (as defined in AREEERA).
  • Planned activities are consistent with the approved **5-year Plan of Work**.
  • Compliance approvals for research with human subjects (IRB) or vertebrate animals (IACUC)
Review Annual Reports (competitive)/Results (capacity):

• NIFA reviews:
  • Progress toward completion of objectives
  • Potential for outputs, outcomes, and impacts after completion
  • Changes in project or program direction due to unforeseen circumstances
NIFA Expectations (Capacity and Competitive):

- **Outputs**: Abstracts, publications, # trainees, patents, inventions, new germplasm, etc.
- **Outcomes**: New knowledge; Changes in management practices or behavior (adoption of new farming practices, change in diet)
- **Impacts**: Long-term changes in conditions (profitability, environment, health and well-being, etc.)
Review Final Reports (competitive)/Results (capacity):

- Covers entire duration of project or program (not just last year)
- NIFA looks for outcomes and impacts to communicate success stories:
  - Addressed important or timely problem/challenge/critical issue. Who cares and why?
  - What was done to address the problem?
  - Describe change in knowledge, actions, or conditions as a result of this project or program to address the problem/challenge/critical issue.
    - So what? Provide quantitative date, if possible.
      - Economic (profitability)
      - Environment (land use, water quality, soil health, etc.)
      - Health and well-being (improved health, quality of life, etc.)
How Impacts (Success Stories) are Used:

• Planning and defending the NIFA budget
• Evaluating NIFA programs
• Communicating accomplishments and impacts:
  • Congress
  • USDA Administration (REE and Secretary of Agriculture)
• Stakeholders
  • Advocates for NIFA
  • Reporters/News Media
  • Public
Multistate Research Fund Impacts

https://www.mrfimpacts.org/impact-writing-workshops
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USDA is an equal opportunity provider, employer and lender.
Questions?

Deb Hamernik
Debora.Hamernik@USDA.gov
Research Capacity Funds

- Hatch Regular
- Hatch Multistate
- Evans-Allen
- Animal Health and Disease
- McIntire-Stennis
Since 2004, funding declines led to:

- Scientist FTEs: -21%
- Research projects: -20%
- Annual hours of ag research: 12.37 million, -32%
LGU2U - Session 2
Funding Connections and Programming

Thank You For Your Time!

Please watch for follow up messages with “LGU2U” in the subject line.

For updates:
https://www.ncra-saes.org/nc-lgu2u-initiative