Resourcing the Next Generation of Turf Science

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Advancing Agriculture through the Mid-21st Century

On Land

Indoors

On Water

In Space

RUTGERS New Jersey Agricultural Experiment Station
Center for Turfgrass Science
Turf Projects in the NIFA Data Gateway

The National Institute of Food and Agriculture is committed to serving its stakeholders, Congress, and the public by using new technologies to advance greater openness. To strengthen transparency and promote open government, NIFA is providing easy access to data and metrics on how the agency disseminates funding.

Data Gateway

All Active Projects 306
Hatch 137
Hatch Multistate 29
McIntire-Stennis 2
ARS 67
Competitive 47
New Jersey 14

https://nifa.usda.gov/data
United States Department of Agriculture
National Institute of Food and Agriculture

FY 2017
Consolidated Appropriations
Specialty Crop Research Initiative - $51-million

<table>
<thead>
<tr>
<th>University</th>
<th>Grant</th>
<th>Duration</th>
<th>Amount ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wisconsin</td>
<td>Biosolids and sustainable sod production</td>
<td>2008-13</td>
<td>$485,000</td>
</tr>
<tr>
<td>Texas A&amp;M</td>
<td>Genetics and genomics of turf drought and salinity tolerance</td>
<td>2010-15</td>
<td>$3.8-m</td>
</tr>
<tr>
<td>Florida</td>
<td>Warm-season turfgrass under limited irrigation and drought</td>
<td>2205-19</td>
<td>$4.4-m</td>
</tr>
<tr>
<td>Minnesota</td>
<td>Fine fescue germplasm improvements</td>
<td>2012-17</td>
<td>$2.1-m</td>
</tr>
<tr>
<td>Minnesota</td>
<td>Breeding innovation for low-input turf adoption</td>
<td>2017-21</td>
<td>$5.4-m</td>
</tr>
</tbody>
</table>
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI) – $375-million

Foundational Programs (up to $500,000 per each)

Plant Health and Production and Plant Products
  • Agricultural Production Systems
  • Pests and Beneficial Species in Ag Production Systems
  • Physiology of Agricultural Plants
  • Plant Breeding for Agricultural Production

Agricultural Systems and Technology
  • Agricultural Engineering
  • Bioprocessing and Bioengineering

Bioenergy, Natural Resources, and Environment

Critical Agricultural Research and Extension ($300,000 per each)

Exploratory Research Program ($100,000 per each)
OTHER DISCRETIONARY FUNDING

Crop Protection and Pest Management – $17-million
  Extension IPM
  Regional IPM Centers
  Applied Research and Development

Special Research Grants
  Minor Crop Pest Management, IR-4 – $12-million

Other Research
  Sustainable Agriculture Research and Education – $27-million
  Organic Research and Extension Initiative - $40-million

Capacity Programs
  Hatch Act, for Land Grant Universities – $244-million
  Smith-Lever, LGU (Extension) – $300-million

USDA-NRCS CONSERVATION INNOVATION GRANTS (CIG) - $20-million
United States Department of Agriculture
National Institute of Food and Agriculture

Business, Community, and Market Development

Small Business Innovation Research (SBIR) - $8-million/$12-million
USDA-RD Value-Added Producer Grants (VAPG) - $18-million
USDA-AMS Federal State Marketing Improvement Program - $1-million

Education

K-12 and Higher Education Programs
4-H and Positive Youth Development
Turf Grass Value Chain and USDA Programs

- Pest Management
- Natural Resources Management
- Technology Innovations

Seed Production → Seed Distribution → Sod Production → Sod Harvest → Sod Installation

Variety Development, Certification, and Commercialization

- Residential
- Parks
- Golf courses
- Sport fields
Turf Grass Value Chain and USDA Programs

AFRI Plant Health and Production and Plant Products

Organic Research and Extension Program

Specialty Crop Research Initiative

Sustainable Agriculture Research and Education

Residential

Seed Production

Seed Distribution

Sod Production

Sod Harvest

Sod Installation

AFRI Exploratory Research Program

Parks

AFRI Agricultural Systems and Technology

Golf courses

eExtension

AFRI Bioenergy, Natural Resources, and Environment

NRCS Conservation Innovation Grants

Sport fields

USDA Small Business Innovation Research Grants

Rural Development Value-Added Producer Grants

AMS Federal-State Marketing Improvement Program
Translating Knowledge through Private-Public Partnerships

**Farm Bill Commodity Board Provision** The 2014 Farm Bill (Section 7404) allows eligible national and state commodity boards to propose topics for research and outreach that they are willing to equally co-fund with NIFA through the Agriculture and Food Research Initiative (AFRI) competitive grants program.
### FY 2016, First Year Collaborations with National and State-level Commodity Boards

<table>
<thead>
<tr>
<th>Submitting Board</th>
<th>Topic</th>
<th>Recipient</th>
<th>Board and USDA investments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kansas Wheat Commission</td>
<td>Improve selection protocols to accelerate wheat breeding progress</td>
<td>Kansas State University</td>
<td>$980,000</td>
</tr>
<tr>
<td>Washington State Potato Commission</td>
<td>Improve data management tracking early-dying disease</td>
<td>Oregon State University</td>
<td>$294,000</td>
</tr>
<tr>
<td>National Peanut Board</td>
<td>Peanut and tree nut allergies</td>
<td>USDA-ARS</td>
<td>$490,000</td>
</tr>
</tbody>
</table>
Future Funding Opportunities

PRESIDENT’S BUDGET

Submission of the President’s Budget Proposal—the first phase in the federal budget process—takes place on or about the first Monday in February. The President’s budget policy proposes funding levels for the upcoming fiscal year. The Budget Information segment of the Budget provides the agency’s budget instructions and justifications.

 Archived Budget Information

IFA saves previous years’ budget information.

EXPLANATORY NOTES & CONGRESSIONAL JUSTIFICATIONS

- FY 2018 Explanatory Notes
- FY 2017 Explanatory Notes
- FY 2016 Explanatory Notes
- FY 2015 Explanatory Notes
- FY 2014 Explanatory Notes

USDA NIFA 2018 Explanatory Notes
Future Funding Opportunities in 2018

• New initiative on the **microbiome** of foods, agricultural animals, plants, and soils

• New initiative on Food and Agriculture **Cyberinformatics** and Tools (FACT)

• Consolidation, restructuring and advancement of the Challenge Area into the new **Sustainable Agricultural Systems Program** - $65-million
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Plant Biology and Pathology
Environmental Sciences
Entomology
Animal Sciences
Biotechnology Center for Agriculture and the Environment

NASA’s Goddard Space Flight Center
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