



National Institute of Food and Agriculture
U.S. DEPARTMENT OF AGRICULTURE

BIOENERGY, CLIMATE, AND ENVIRONMENT
FOOD PRODUCTION AND SUSTAINABILITY
YOUTH, FAMILY, AND COMMUNITY
FOOD SAFETY AND NUTRITION
INTERNATIONAL PROGRAMS

NIFA Organic Weed Mgt Programs

03-22-2022

WSSA

Dr. Mathieu (Mat) Ngouajio, National Science Liaison, NIFA

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USDA IS AN EQUAL OPPORTUNITY PROVIDER, EMPLOYER, AND LENDER

Strong investments in research & innovation is critical to the growth of the organic sector

- **NIFA organic programs have helped fill the gap by stimulating cutting-edge research to address critical challenges of the organic industry.**
- **Most NIFA programs are open to organic ag.**
- **These include capacity and competitive programs**
- **There are two programs that are specific to organic ag.**
 - *Organic Transitions (ORG)*
 - *Organic Agriculture Research and Extension Initiative (OREI).*

- **NIFA Organic Programs cover all types of production systems: From open field to indoor controlled environment.**
- **They are open to all organic agriculture projects focusing on **weed management**.**





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Organic agriculture at NIFA 2022

ORG: Organic Transitions

\$7.5M

Support the development and implementation of research, extension and higher education programs to improve the competitiveness of organic livestock and crop producers, as well as those who are adopting organic practices.

Eligibility:
Colleges and University

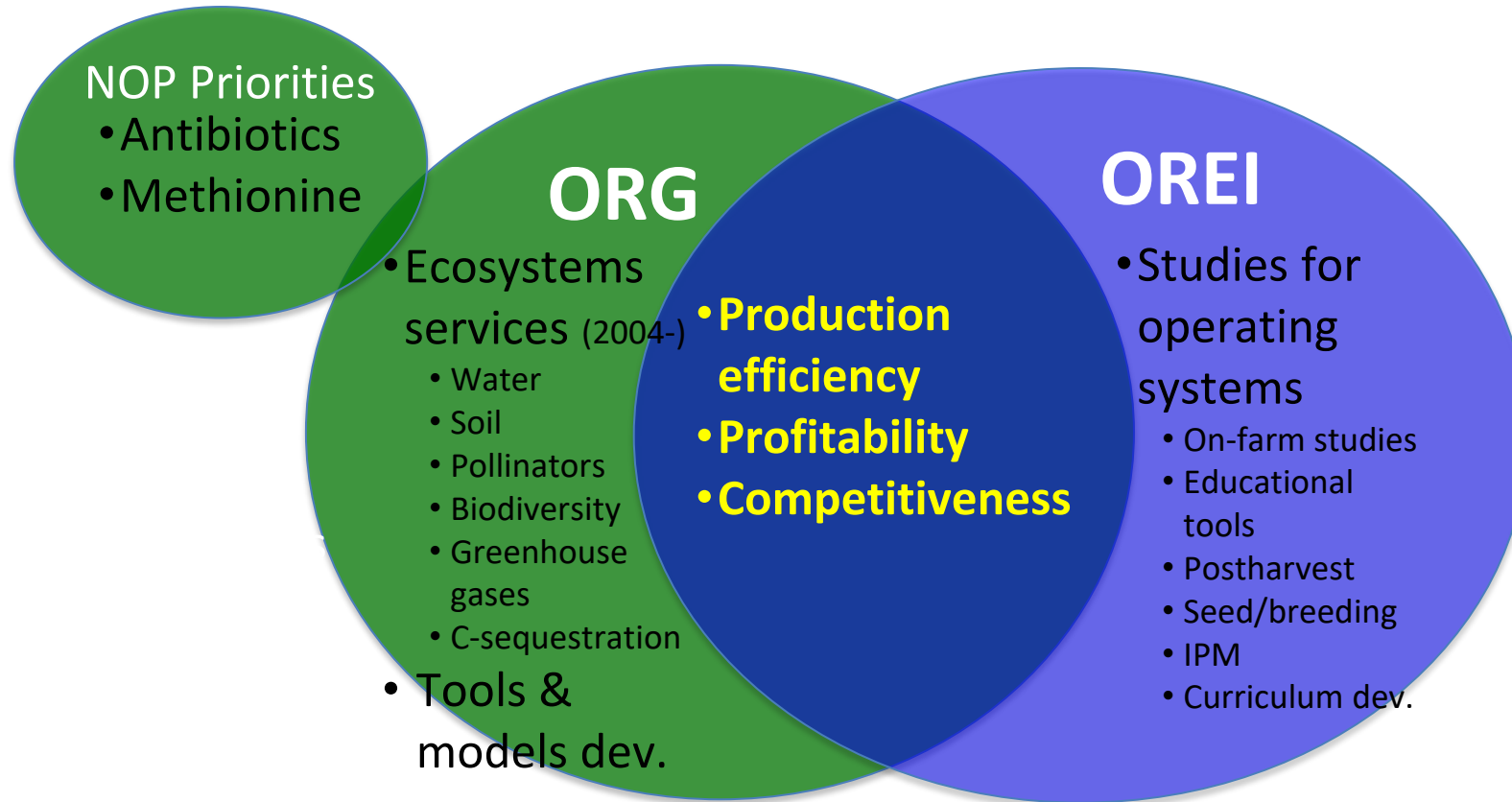
OREI: Organic Agriculture Research and Extension Initiative

\$30M

Fund high priority research, education and extension projects that will enhance the ability of producers and processors who have already adopted organic standards to grow and market high quality organic agricultural products.

Eligibility:
Very broad: All citizens

Priority areas



Specific Priorities are listed in the RFAs



Specific Weed Science Priorities

| OREI | ORG |
|--|--|
| <p>P. 7-8 of the RFA</p> <p><i>“...developing, improving, and evaluating systems-based integrated management programs to address diseases, nematodes, weeds, and insect pests-related problems for organically grown crops.”</i></p> | <p>P. 8 of the RFA</p> <p><i>“..understanding of weeds, pests and diseases dynamics for better management..”</i></p> <p><i>“Overcome barriers to organic transition.”</i></p> |

Organic **Weed** Management remains the top priority of the organic industry (OFRF, 2022)

https://ofrf.org/wp-content/uploads/2022/03/OFRF_National-Organic-Research-Agenda-NORA_2022.pdf



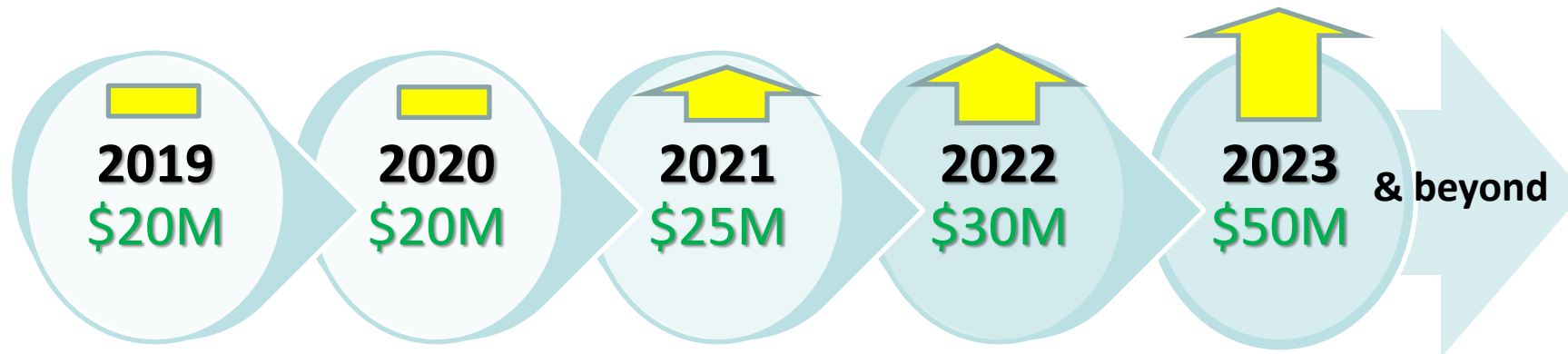
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2018 Farm Bill Impact on OREI Budget

FUNDING





Project Types 2022

OREI

| Project Types | | Project Periods | Grant Types | Max. Funding Requests |
|-----------------------------|--------|-----------------|-------------|-----------------------|
| Integrated Project Proposal | Tier 1 | 3 to 4 years | Standard | \$3,000,000 |
| | Tier 2 | 3 to 4 years | Standard | \$1,500,000 |
| | Tier 3 | 3 to 4 years | Standard | \$750,000 |
| Curriculum Development Pro. | | 3 to 4 years | Standard | \$750,000 |
| Conference Proposal | | 1 year | Conference | \$50,000 |
| Planning Proposal | | 1 year | Standard | \$50,000 |

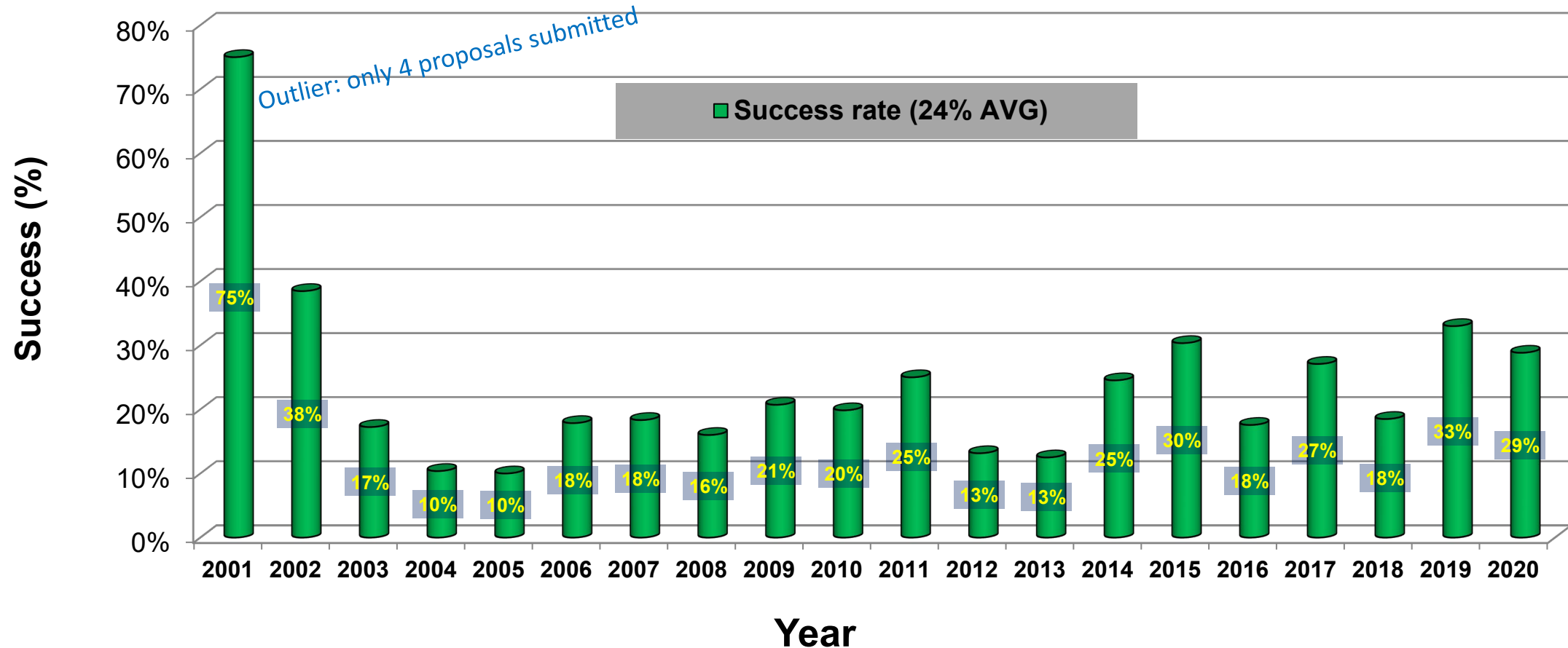
ORG

| Project Types | Project Periods | Grant Types | Max. Funding Requests |
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ORG and OREI Success Rate

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FY-2022 Application Deadlines

| Grant Program | Deadline |
|---------------|----------------|
| <i>OREI</i> | March 31, 2022 |
| <i>ORG</i> | April 21, 2022 |
| | |



Example of Active Weed Science Projects

| Topic | Amount | PD | Institution |
|---|-------------|--------------|-------------------------------|
| <i>Mulch2o: Biodegradable Composite Hydromulches for Sustainable Organic Horticulture</i> | \$1,300,372 | Gramig G. | NORTH DAKOTA STATE UNIVERSITY |
| <i>Performance and Economics of <u>Electric Weed Control</u> in Organic Perennial Crops: A Multiregional Approach</i> | \$2,044,595 | Moretti L.M. | OREGON STATE UNIVERSITY |
| <i>Developing <u>biological control of Canada thistle</u> for Colorado's organic producers using the host specific rust fungus <i>Puccinia punctiformis</i></i> | \$324,180 | Bean D. | COLORADO DEPARTMENT OF Ag |
| <i><u>Integrating Advanced Cultural and Mechanical Strategies for Improved Weed Management in Organic Vegetables</u></i> | \$1,955,519 | Gallandt E. | UNIVERSITY OF MAINE |
| <i><u>CREEP STOP: Integrating Biological, Cultural, and Mechanical/Physical Tools for Long-Term Suppression of Creeping Perennial Weeds in northern Great Plains and Pacific Northwest Cropping Systems</u></i> | \$1,999,995 | Carr P. | MONTANA STATE UNIVERSITY |
| <i><u>Balancing soil nutrition for sustainable <u>weed and pest-insect management</u></u></i> | \$499,993 | Snyder W. | UNIVERSITY OF GEORGIA |
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