



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
[@USDA_NIFA](https://twitter.com/USDA_NIFA)



BIOENERGY, CLIMATE,
AND ENVIRONMENT



FOOD PRODUCTION
AND SUSTAINABILITY



YOUTH, FAMILY,
AND COMMUNITY



FOOD SAFETY
AND NUTRITION



INTERNATIONAL
PROGRAMS



USDA NIFA

NATIONAL INSTITUTE OF FOOD AND AGRICULTURE



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

www.nifa.usda.gov
@USDA_NIFA

2018 National IPM Coordinating Committee Meeting

Herb Bolton, National Program Leader for
Entomology
National Institute of Food and Agriculture,
Washington, DC

USDA NIFA

NATIONAL INSTITUTE OF FOOD AND AGRICULTURE

NIFA Review

- Reflections on the 2016 State of IPM Report
- How we can best accomplish these priorities
- What does NIFA expect from IPM programs
- Approach:
 - Snapshot of ongoing activities potentially impacting these issues and current opportunities.
 - Review features of Crop Protection and Pest Management Program.

NIFA and Strategic Planning Snapshot

- The Food, Conservation, and Energy Act of 2008 (the 2008 Farm Bill) authorized NIFA's creation in 2008.
- NIFA provides leadership and funding for programs that advance agriculture-related sciences. NIFA invests in and support initiatives that ensure the long-term viability of agriculture.
- NIFA applies an integrated approach to ensure that groundbreaking discoveries in agriculture-related sciences and technologies reach the people who can put them into practice.

NIFA and Strategic Planning Snapshot

- NIFA created its first strategic plan (2014-2018) during this initial period.
- This plan focused on four major goals that are in direct alignment with the 2014 Farm Bill; the USDA Strategic Plan (FY2014-2018); and the Research, Education, and Economics (REE) Action Plan.
- Science, People, Process, and Communications
- NIFA is now beginning the steps to revise our strategic plan for the next five-year cycle.
- Spring 2017, NIFA held a Science Week for NIFA program staff to present staff input/issues for possible inclusion in the science portion of NIFA's new strategic plan.

Upcoming NIFA Science Stakeholder Listening Sessions

- NIFA is holding four in-person listening sessions to cultivate partnerships with stakeholders and obtain input for NIFA programs.
- [Marriott Kansas City Overland Park, Kansas City, Missouri](#) (Thursday, October 19, 2017)
- [Atlanta Marriott Marquis, Atlanta, Georgia](#) (Thursday, October 26, 2017)
- [Westin Sacramento, Sacramento, California](#) (Thursday, November 2, 2017)
- [Marriott Greenbelt, Greenbelt, Maryland](#) (Wednesday, November 8, 2017)
- Also, submission of stakeholder input online.

Upcoming NIFA Science Stakeholder Listening Sessions

- [“NIFA Listens: Investing in Science to Transform Lives.”](#)
- Invitation to provide input to help ensure the strategic positioning and relevancy of NIFA’s investments in advancing agricultural research, extension, and education.
- “What is your top priority in food and agricultural research, extension, or education that NIFA should address?” and
- “What are the most promising science opportunities for advancement of food and agricultural sciences?”
- <https://nifa.usda.gov/nifalistsens>
- An excellent opportunity to provide input on the State of IPM and impact the new NIFA strategic plan.

NIFA's Current Mission and Vision

- ***Our Mission: Invest in and advance agricultural research, education, and extension to solve societal challenges***
- ***Our Vision: Catalyze transformative discoveries, education, and engagement to address agricultural challenges.***
- **The Crop Protection and Pest Management program objectives support the NIFA mission and vision in regard to integrated pest management.**

NIFA Strategic Plan and Goals

- **Goal 1 - Science:** Catalyze exemplary and relevant research, education and extension programs.
- **Goal 2 - People:** Transform NIFA into a model agency with a highly motivated workforce.
- **Goal 3 - Process:** Institutionalize streamlined, effective technologies, policies, and processes.
- **Goal 4 - Communication:** Advance America's global preeminence in food and agricultural sciences.

NIFA Strategic Plan and Goals

- NIFA aligns our actionable strategies with USDA goals and objectives as well as those of the Research, Education and Economics (REE) mission area. Consult the [USDA Strategic Plan](#) (FY 2014-2018), the [REE Action Plan](#).
- NIFA's strategic plan was also developed taking into account Administration and Congressional priorities, stakeholder input, NIFA's portfolio assessments, other federal agencies, and professional organizations.
- Last week, Secretary of Agriculture Sonny Purdue just announced the establishment of seven Strategic Goals for fiscal years 2018-2022 that he will discuss over the next few weeks.
- The new USDA goals have not yet been released.
- Under Secretary Purdue, motto for is "Do right and feed everyone."

USDA Strategic Plan Alignment

- I expect that the new Under Secretary for the USDA Research, Education, and Economics (REE) mission area will have a new REE Action Plan.
- All of NIFA's Requests for Applications (RFA) have had to align with the current USDA strategic plan and REE Action Plan and list those linkages in each RFA.
- So, once the new REE Action Plan is complete, it will need to be cited in NIFA RFAs.
- After Secretary Purdue has released the new USDA strategic plan, the expectation is that the goals in the new strategic plan will need to be cited as in past.

NIFA Strategic Plan 2018-2022

- Goal 1 – Science: Catalyze Exemplary and Relevant Research, Education, and Education, and Extension Programs.
- Selected Sub-Goals: Advance our Nation’s ability to achieve global food security and fight hunger.
- NIFA Portfolio List, i.e. Sustainable Agricultural Systems
- Sub-Goals and Performance Measures

Farm Bill

- Current 2014 Farm Bill expires on Sept 30, 2018.
- The respective House and Senate committees have held, and continue to hold Farm Bill hearings.
- The House and Senate Committee have held listening sessions around the country.
- Sonny Ramaswamy, Chavonda Jacobs-Young, and Acting REE Secretary appeared before Senate Agriculture Committee in June.

NIFA Calls to Conversation Meeting Series – Tactical Sciences

- Several “Calls” from our NIFA Director are ongoing on topics aimed at working with stakeholders through high-level conversations to seek a shared vision for the future on several agency programming areas.
- Tactical Sciences is on the agenda later this morning for Sonny to discuss.
- Need for investments in tactical sciences at NIFA to address the challenges of emerging threats to our total national food enterprise.

Tactical Sciences

- Food and Agriculture Defense Initiative (FADI)
 - o National Plant Diagnostic Network (NPDN)
 - o National Animal Health Laboratory Network (NAHLN)
 - o Extension Disaster Education Network (EDEN)
- Crop Protection and Pest Management (CPPM)
- Minor Crop Pest Management (IR4)
- Food Animal Residue Analysis Database (FARAD)

NIFA Communication

- Share Your Science Campaign
- NIFA Communications Staff publicizes grantee success stories to many important audiences to demonstrate benefits of NIFA funding.
- NIFA encourages grantees to share their exciting stories, news, photos, and outcomes.
- Examples of stakeholders using this campaign:
 - IPM Centers, Auburn, etc.



Share Your Science Campaign

- Email links to press releases about your work or relevant, exciting photos to impactstories@nifa.usda.gov.
- Tweet about your work using #NIFAimpacts and mentioning @USDA_NIFA
- Apprise NIFA of publications of manuscripts to high-impact journals or other meaningful contributions to the field.
- Publish grantee blogs about NIFA-funded projects. Contact Scott Elliott (selliott@nifa.usda.gov) for more information.

Crop Protection and Pest Management Program

- First RFA released in FY 2014 for three program areas: Applied Research and Development Program Area, Extension Implementation Program Area, and the Regional Coordination Program Area (IPM Centers).
- In President's budget request prior to FY 2014, funding was requested (\$29,056,000) for five focus areas:
 - Plant Protection Tactics and Tools
 - Development and introduction of new pest management tools & tactics into agricultural production systems.
 - Breakthroughs resulting in greater profitability and reduced environmental and health risks.
 - Or new replacement tactics due to pest resistance, regulatory action, etc.
 - Included as a focus area in RFAs

Crop Protection and Pest Management Program

- Focus areas (continued):
 - Diversified IPM Systems
 - Will support long-term projects focused on the development and implementation of innovative IPM systems on an area or landscape basis.
 - IPM systems projects will often be multi-state or regional in scale and will involve multiple managed ecosystems with emphasis on enhanced stability and sustainability of IPM systems.
 - Projects supported will be broad and systems-oriented efforts, with involvement of relevant disciplinary and subject matter experts
 - Have not had funding to begin this focus area in CPPM as envisioned.

Crop Protection and Pest Management Program

- Focus areas (continued):
 - Enhancing Agricultural Biosecurity
 - Support the development and maintenance of key information systems, networks, and decision support tools that provide the knowledge infrastructure needed for early detection and the application of science-based IPM systems for invasive, emerging and high-consequence pests that threaten U.S. agriculture.
 - Included as a focus area in CPPM RFAs.

Crop Protection and Pest Management Program

- Focus areas (continued):
 - IPM for Sustainable Communities
 - Much IPM knowledge and expertise developed for agricultural systems has direct application in non-traditional settings.
 - Knowledge gained from IPM research focused on crop protection can be applied to pest management efforts in structures and within living spaces in schools and homes.
 - Included as a focus area in CPPM RFAs.

Crop Protection and Pest Management Program

- Focus areas (continued):
 - Development of the Next Generation of IPM Scientists
 - Support pre-doctoral and post doctoral education programs needed to prepare the next generation of IPM scientists.
 - Support also will be provided for curriculum development, including distance education approaches to deliver web-based courses that address the intent of this program area.
 - Have not had funding to begin this focus area in CPPM as envisioned.

Crop Protection and Pest Management Program

- In FY 2014 the CPPM program received \$17.143 million.
- In FY 2015 & 2016, CPPM received \$17.200 million.
- In FY 2017, CPPM received 20.0 million.
- The increase in funding in FY 2017 was put into the Extension Implementation program area (EIP).
- NIFA has not been able to fully offer the CPPM opportunities as described in the Explanatory Notes of the President's budget request for FY 2014 at the funding level requested (\$29,056,000).

CPPM Program – NIFA’s Expectation

- NIFA Strategic Plan: Catalyze exemplary and relevant research, education, and extension programs.
- NIFA RFA:
 - Support for research to develop new IPM approaches, extension to disseminate IPM knowledge and improve implementation of IPM practices, and coordination of IPM activities at the regional and national levels to increase the adoption of IPM practices on a broad scale.
 - Provides support for these functions with three linked programs that emphasize research (discovery), extension (translation) of that knowledge, and enhanced coordination, collaboration and communications among related CPPM programs and grantees.

CPPM Program – NIFA's Expectation

- Applied Research and Development Program Area
- ARDP funds projects for the development of new IPM tactics, technologies, practices, and strategies.
- ARDP also funds IPM implementation.

CPPM Program – NIFA's Expectation

- Applied Research and Development Program Area
- Requested Project Type – The ARDP supports three project types:
 - Applied research (single-function) projects develop innovative, ecologically-based, sustainable IPM strategies and systems that address regional and/or national IPM priorities.
 - Research-led projects enhance the implementation of innovative, ecologically-based, sustainable IPM strategies and systems.
 - Extension-led projects increase levels of adoption of innovative, ecologically-based, sustainable IPM strategies and systems by IPM practitioners and growers.

CPPM Program – NIFA’s Expectation

- Extension Implementation Program Area
- EIP funds projects based on combinations of primary and secondary priorities intended to increase IPM implementation among the clientele served. EIP applications do not need to represent the entire scope of IPM at an institution, but should represent a reasonable proportion of the institution’s IPM programming.
- Activities in EIP should implement new IPM strategies and improve implementation of known IPM strategies.

CPPM Program – NIFA’s Expectation

- Regional Coordination Program Area
- Regional Coordination Program Area (RCP). The RCP funds projects to increase coordination and improve efficiency of IPM research and extension efforts; facilitate collaboration across states, disciplines, and purposes; and promote further development and adoption of IPM through regional pest management information networks, collaborative team building and broad-based stakeholder participation.
- The desired result of these efforts is broader implementation of research findings.