



United States
Department of
Agriculture

National Institute
of Food and
Agriculture

NIFA Listens: Investing in Science to Transform Lives What We Heard in 2017

Executive Summary

In September 2017, the National Institute of Food and Agriculture (NIFA) launched NIFA Listens: Investing in Science to Transform Lives. The intent of this effort was to solicit broad stakeholder input to identify science priorities for the agency through a structured annual process that is proactive, open, inclusive, and transparent to help ensure the relevancy of NIFA's investments. For 2017, the listening effort focused on answering the following questions, "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?" NIFA sought stakeholder comments on priorities, solutions and opportunities to facilitate long-term sustainable agricultural production, research, education and extension. This listening effort focused on the agricultural science that NIFA invests in, but not on NIFA processes or procedures.

NIFA Listens collected data through 3 modes, online via survey and email responses and in-person stakeholder listening opportunities. Stakeholder input received from each mode was treated equally. The data collection period was from September 15-December 1, 2017. The information received is critical for NIFA's evaluation and prioritization of existing science emphasis areas to identify investment opportunities and gaps in the current portfolio of programs. Analyzed and synthesized feedback will help guide the strategic positioning and relevancy of NIFA's investments in advancing agricultural research, education and extension.

The interdependence between research, extension, and education efforts was clear in the feedback as was the interconnectedness of the agricultural production, ecological, social, economic, and technical challenges that face agriculture. The primary strategies to address these challenges were either technological or extension and community based efforts, with increasing interest in data driven approaches that could foster integration of these two strategies. Stakeholders looked beyond independent agricultural systems to agroecosystems, rural communities, and the availability of nutritious food within society, understanding that multidisciplinary approaches are required to solve the cross system challenges faced today.

The analysis of the responses identified 20 major themes with data and technology, plant production, sustainability/agroecology, economics, social systems, and extension as the most commented upon themes. These reflect both problem solving strategies as well as the major systems that stakeholders emphasize need to be addressed in NIFA funded research. In terms of the six Farm Bill priority areas, Agriculture Systems and Technology was the area most comments related to, suggesting that a systems approach leveraging technology to solve these problems seems to have broad support from stakeholders. Education remains a strong emphasis and is woven throughout all themes.

The sentiment from NIFA staff and stakeholders is that NIFA Listens was a worthwhile, informative, and positive effort. Stakeholders that attended the in-person listening events delivered an exceptionally high level of engagement. It is recommended that future stakeholder feedback planning efforts begin earlier to allow for more advanced notice of NIFA's intent to collect data. NIFA staff will continue to review how the stakeholder feedback fits with current programmatic structure, Agency goals, and Departmental priorities that may lead to the development of new programmatic guidance based on the synergies and overlaps.

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Background

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Planning and Outreach

Outreach promoting NIFA Listens was distributed broadly via:

- [NIFA Listens Website](#)
- [Federal Register Notice](#), released on September 15, 2017
- [NIFA Press Release](#), posted on September 15, 2017.

Additionally, NIFA targeted known agency stakeholders by highlighting this opportunity to more than 23,000 NIFA Update subscribers. NIFA also drew on a stakeholder list including more than 1,000 organizations compiled by NIFA staff and informed by the Office of the Director and program staff.

In-Person Listening Sessions

There were four in-person listening sessions occurring over consecutive weeks from October 19 to November 8, 2017. The sessions took place in 4 different regions of the United States, including Overland Park, KS; Atlanta, GA; Sacramento, CA; and Greenbelt, MD. These locations were selected to represent each of NIFA's 4 regions and provide easy access by agricultural centers throughout the nation.

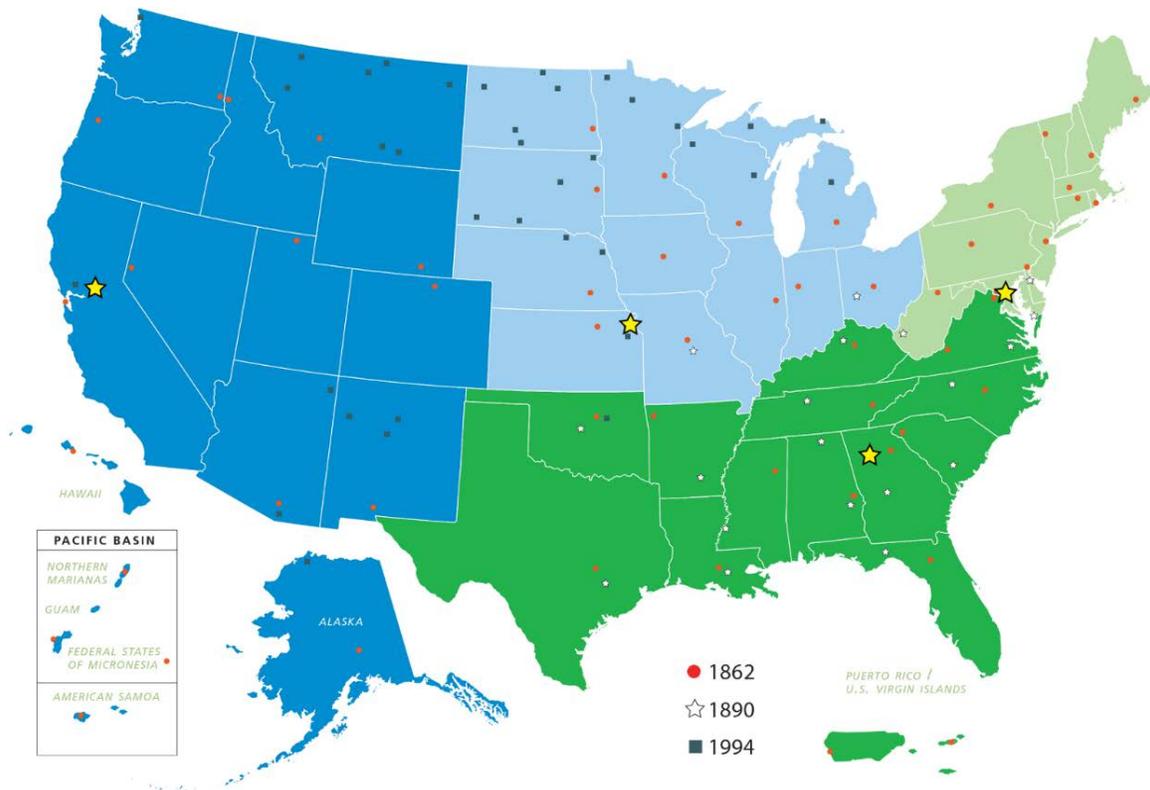


Figure 1: NIFA Listens In-Person Meeting Locations. Overland Park, KS, Atlanta, GA, Sacramento, CA, Greenbelt MD, represent each of NIFAs 4 regions.

Participants for the in-person sessions could RSVP and indicate which of the 4 sessions they would attend via the Stakeholder Input Form or NIFA Listens email. The table below provides a summary of respondents and participants at the NIFA Listens in-person sessions.

Location	Total RSVPs	Total Speakers	Unscheduled Speakers	Webcast Attendees	Total Participation
Overland Park, KS	29	12	2	37	80
Atlanta, GA	40	14	3	33	90
Sacramento, CA	51	20	2	28	101
Greenbelt, MD	63	23	2	37	125
Total	183	69	9	135	396

Table 1: Participants in NIFA Listens In-Person Listening Sessions.

Speakers were given 5-10 minutes to respond to the questions, “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?” There was an opportunity for unregistered speakers to comment after all registered speakers had spoken. Nine participants took this opportunity to speak, though the majority of speakers pre-registered. There was an opportunity for questions and limited dialog after presentations were made.

Of the 69 total comments from in-person listening sessions, the Land-Grant University community was the best represented stakeholder group. As primary stakeholders for NIFA grants and awards, this

community was diverse and included representation from 15 Land-Grant institutions, their Extension Services, IPM Centers, and two 1890 Land-Grants. The other primary stakeholders represented at in-person meetings were commodity groups and non-governmental organizations.

Themes

The final dataset combined information from 476 Stakeholder Input Form responses, 69 in-person listening session transcripts, and 54 emails for a total of 599 responses. The responses represented 383 personal opinions and 216 organizational opinions.

Computational text analysis determined 20 main themes as shown in the Table 2. Themes are listed in descending order of frequency in responses. Because each response could cover more than one theme, the percentage of total responses that included terms indicative of the theme are included as quantitative data. Percentage information is provided for all responses, organizational responses, and personal responses to examine any differences in priorities between the two response types.

Table 2: Top 20 Themes that Emerged from NIFA Listens Feedback.

Rank	Theme & Related Terms	% of Responses	% of Organizational Responses	% of Personal Responses
1	Data & Technology: data science, genomics, precision ag, diagnostics	40%	57%	31%
2	Plant Production: soil health, ecosystem services, native plants, specialty crops, pest management, plant breeding	37%	46%	33%
3	Sustainability and Agroecology: economic, environmental, and social dimensions	35%	41%	32%
4	Economics: labor, community development, entrepreneurship	34%	49%	26%
5	Social Systems: extension, community development, healthy lifestyle and nutrition, youth development, family and consumer sciences	29%	44%	21%
6	Extension: nutrition, pest management, community development, Family and Consumer Sciences, Positive Youth Development	26%	45%	15%
7	Soil: organic farming, water and nutrient management, microbiome	21%	26%	17%
8	Ecosystem Services: water and nutrient management, pollinators/pollination, soil conservation	19%	25%	16%
9	Nutrition: organic food, extension, youth outreach, behavior change, consumer behavior	16%	25%	10%
10	Forestry and Forest Health: ecosystem services, disease, pests, breeding, climate change	15%	16%	14%

Rank	Theme & Related Terms	% of Responses	% of Organizational Responses	% of Personal Responses
11	Animal Production and Animal Science: health and disease, data, nutrition, organic, genetic stock preservation	14%	20%	11%
12	Organic Farming: soil, pest management, nutrition, breeding	14%	13%	14%
13	Food Security: food production, sustainability, and nutrition	11%	17%	8%
14	Climate Change: sustainability, adaptation and mitigation, impact assessment, ecosystem services	11%	10%	11%
15	Native Plants: source of seed, crop genetic resource, pollinator health	10%	6%	12%
16	Integrated Pest Management: extension, invasive species, pest monitoring, organic, data	8%	14%	4%
17	Food Safety: pest management, animal health, supply chain	7%	15%	3%
18	Microbiome and Microbes: animal, plant, soil	5%	10%	3%
19	Bioenergy and Bioproducts: biofuel, feedstocks, anaerobic digesters, agricultural waste	4%	5%	3%
20	Controlled Environment Agriculture: pesticide use, urban and vertical farming	3%	6%	2%

Theme Summaries

1. Data and Technology

Data and technology often came up together in different combinations to solve many of the challenges discussed facing agriculture. Data driven solutions to production optimization came up in the context of precision agriculture as well as the management of pests and disease. The importance of real time monitoring and networks to share information regarding disease and pest outbreaks. Much of the research into technologies was oriented around academic research, possibly due to high university participation relative to industry participation in the stakeholder listening. Major areas were data (38% of data and technology comments – all percentages reported in this section relate to fraction of comments within the theme), genomics (23%), precision agriculture (15%), automation (10%), and gene editing (8%).

2. Plant Production

Given that plants are a central commodity in agriculture they were commonly highlighted as an important area of continuing research with major overlaps with soil health (32%), ecosystem services (32%), specialty crops (24%), native plants (15%), plant breeding (13%), pest management (12%), and genomics (7%). Research topics included breeding for weather variability and drought, cultivars bred for organic farming techniques, and development of new crops from wild relatives of existing crops.

3. Sustainability and Agroecology

Sustainability came up in many contexts including economic (55%), environmental (50%), and social dimensions (38%). These issues were seen as interwoven into many of the main challenges ahead for agriculture and rural communities. Data was a common topic occurring in 18% of the sustainability comments.

4. Economics

Economics was seen as an important driver of many of the decisions made in agriculture and important area to understand, from the standpoint of both producer (88%) and consumer behavior (23%). Sustainability came up in 56% of the comments mentioning economics. The economic impact of pest and disease was also common (43%) including in the context of forest conservation (15%). Data was a common topic occurring in 23% of all economics responses.

5. Social Systems

Social systems were seen as an area facing many challenges, especially the need for community and economic development (16%) and issues around nutrition in food consumption (25%). Data was a common topic occurring in 26% of all social systems comments.

6. Extension

Extension was seen as a critical part of NIFA's mission with farming (80%), pests and disease (48%), community (40%), health (40%), nutrition (27%), data (22%), and youth and family (19%), as common related topics.

7. Soil

The relationship between organic farming techniques and soil health was mentioned in 29% of responses commenting on soils. Microbiome and microbes were also an important area covering (18%). Another common area of comment was the relationship to waste streams (11%).

8. Ecosystem Services

The ecosystem services commented on were pollination (55%), water quality and availability (51%), nutrient cycling (25%), and carbon sequestration (19%).

9. Nutrition

Many comments addressed the availability and choice to eat healthfully, with the role of the community (35%), youth (26%), and food or nutritional security (27%) important subtopics. Sustainability was also commonly commented on (39%) as well as specific practices such as organic farming (26%).

10. Forestry and Forest Health

The most common topic commented on in forest health was pests and disease coming up in 39% of responses commenting on forests. It was pointed out that breeding trees was more difficult than crops due to the long time horizon and may have been underfunded for this reason. Concern about climate resiliency such as drought resistance and the economic role in supporting rural communities were highlighted.

11. Animal Production and Animal Science

The most common areas mentioned in animal agriculture were animal health and disease (84%) with data driven solutions often highlighted (34%). The nutrition dimension was often commented on (23%) as well as specific production approaches, such as organic farming (12%). Although germplasm was only mentioned in 3% of comments, the importance of maintaining genetic stocks that cannot be recreated if lost was highlighted.

12. Organic Farming

Organic farming had many overlaps with conventional areas scientifically, but a very strong focus on soils (52%), pest management (48%), and nutrition (28%). It was also pointed out that many breeds have been developed for conventional practices and there is potential to breed cultivars specifically adapted to organic conditions (20%). The potential for developing a bio-intensive integrated pest management approach to ease transition to organic farming was highlighted by one comment from the Organic and IPM Working Group submitted by the IPM institute of North America.

13. Food Security

The main issues in food security revolved around food production (57%) and sustainability (49%) although ensuring nutrition (37%) and not just calories was considered an important future goal.

14. Climate Change

Sustainability was the most common subtopic in climate change covering 61% of these comments, with concerns for adaptation and mitigation (28%). Ecosystem services were often mentioned (30%), with an interest in impact assessments (9%) and working on crop and weather models.

15. Native Plants

One of the most important roles highlighted for native plants was pollinator health commented on in 61% of responses on this topic. Their eventual potential role in production based on developing new crops was also highlighted (34%), though for this and practices such as riparian buffers, the need for commercial sources of seed was also emphasized (48%).

16. Integrated Pest Management

Extension was seen as an important part of IPM (48%). Compatibility with many organic practices was mentioned (27%) frequently. Monitoring (21%) was considered important as was data (15%), with an overlap in real time data to help detect emerging pest outbreaks. Invasive species and emerging pests (19%) were also considered an issue, which requires ongoing research.

17. Food Safety

The biggest concern in food safety was animal health, disease, and diagnostics (57%) with pest management (45%) also a concern. Supply chain (16%) research was also mentioned.

18. Microbiome and Microbes

Microbes and microbiomes were considered important with animal (56%), plant (53%), and soil (41%) all considered important environments for study.

19. Bioenergy and Bioproducts

Biofuel (30%) and agricultural waste (30%) were the most common themes, with processing approaches like anaerobic digesters (17%) also commented on. The use of agriculture to generate biomass feedstocks (13%) for further processing was also mentioned.

20. Controlled Environment Agriculture

In controlled environment agriculture, reduction in pesticide use (20%) and the potential for urban and vertical farming (20%) were seen as major advantages that may lead to growth.

Broader Trends of Themes

Through the analysis of the responses, a number of broad points became evident:

- **Agriculture is comprised of interconnected systems and solving problems will require a holistic approach.** Stakeholder feedback stated a need to address agricultural production, ecological, social, economic, and technical problems in conjunction, not separately. This interconnectedness made it difficult to separate comments into distinct categories without overlaps.
- **Stakeholders look beyond agriculture alone.** Most responses addressed agroecosystems, which combines agricultural production and related natural resource management issues. Water, soil, nutrient, and integrated pest management that minimize chemical use and improve the health of pollinators and beneficial organisms were all frequently discussed. Indeed the effects of farming beyond ecosystems on public health and the relationship between consumer eating behaviors and the food that is produced were frequently discussed. Solving these problems require interdisciplinary collaboration.
- **Themes are influenced by stakeholder communities.** Many responses described similar issues, but with different language and a different focus reflecting distinct social or academic communities. Themes were more clearly defined where a focused community already exists such as forestry, integrated pest management, family and consumer sciences, public plant breeding, consumer horticulture, and native plants.

Within the 20 topical themes, two main problem-solving strategies were seen that can be combined in decision support tools:

- **Technology and Data:** 40% of comments spoke to data and technology as a solution to understanding and better managing these systems
- **Community Based Extension:** 26% of comments mentioned solving problems through the role of extension in improving agricultural practice and community development.

The need to strengthen communication between research and extension where these two types of solutions are developed and implemented was mentioned. Decision Support Tools, provide a point where collaboration between extension and research efforts could aid in integrating these two problem-solving strategies while bringing these communities together.

Farm Bill Priority Area Comparison

Farm Bill Area	% of Responses	% of Organizational Responses	% of Personal Responses
Agriculture Systems and Technology	68%	85%	58%
Agriculture Economics and Rural Communities	64%	79%	55%
Plant Health and Production and Plant Products	52%	61%	48%
Bioenergy, Natural Resources, and Environment	45%	51%	42%
Food Safety, Nutrition, and Health	38%	55%	28%
Animal Health, Production, and Products	22%	29%	19%

Table 3: Percent of Responses in the Six Farm Bill AFRI Priority Areas.

A similar approach was carried out to quantify the extent that stakeholder responses related to the six priority areas for the Agriculture and Food Research Initiative laid out in the Farm Bill. The mapping of the comments onto the six Farm Bill areas again indicates the large extent to which areas of research at NIFA are interdependent with significant overlaps that help address cross-scale and cross-system interactions.

Agriculture Systems and Technology is described as both technology, a major theme, and a systems view on agriculture spanning economic, crop, animal, and natural resources. This combination makes the area quite broad and the most commonly commented on, however only 5.5% of these comments directly addressed either systems modeling or simulation approaches. This approach would seem to be a reason for incorporating technology with a focus on all agricultural systems and appears to have broad applicability based on the fraction of comments that address various systems.

Agriculture Economics and Rural Communities is intended to support programs that strengthen rural economies. While the scope is broad, rural prosperity is one of the strategic goals of USDA and achieving it is greatly facilitated by understanding the economics of agriculture in rural communities.

The importance of Plant Health and Production and Plant Products likely reflects the importance of crops in both feeding people and livestock, which was reflected in a majority of comments.

Bioenergy, Natural Resources, and Environment were also mentioned by about half of comments, driven in large part by the natural resources and environment dimensions. However, the potential of sustainable approaches to bioenergy and bioproducts were pointed out as areas of potential growth and economic development for rural communities that can benefit the environment and possibly improve handling of agricultural waste streams.

Food Safety, Nutrition, and Health addresses the value that agriculture provides to sustaining a healthy population, a perspective quite prominent in the extension responses. A major emphasis in Animal Health, Production, and Products was animal health and wellbeing. One Health, which looks at the relationship between human, animal, and environmental health was only mentioned a few times, but has great potential to connect animal health and production more deeply with the other areas of study and address many outstanding issues in foodborne disease.

Extension Focused Feedback

Twenty-six percent of NIFA Listens comments contained the word “extension” from our in-person, online survey or email feedback mechanisms. National organizations representing extension as well as 1890 and 1994 Land-Grant institutions, IPM centers, and groups specializing in areas such as organic agriculture, feed, or plant breeding participated by providing input.

There was recognition and appreciation from extension stakeholders that NIFA is engaging in a stakeholder listening activity. Continued and increased support for existing extension programs was a major theme. Stakeholders requested continued support for Consumer and Family Sciences, Integrated Pest Management (IPM), 4-H, Master Gardeners, Family Nutrition Education Programs (FNEP), and Organic Agriculture Research and Extension Initiative (OREI).

The most common themes raised by extension partners include community development and public policy, food and nutrition literacy, healthy lifestyles, positive youth development, and scientific literacy. It was emphasized that extension activities can help both urban and rural residents gain the power and means to shape their lives, families, and communities, and sustain behavior change. For agricultural and vulnerable communities, managing the impacts from climate change, emphasizing efficient water use, and fire prevention were mentioned multiple times.

Extension stakeholders were clear that their top priorities are to create public value by catalyzing innovation and community change through providing science based assistance and building strategic partnerships, informing public policy, and providing focus and direction for community coalitions and projects. Promoting community capacity building with underrepresented and new cultural audiences was also emphasized.

Education Focused Feedback

Education, which is central to NIFAs mission, was a common theme across the stakeholder priorities and opportunities with 25% of respondents including education in their feedback. Education was often coupled with extension to cooperatively develop and deliver programs to increase science-based knowledge about agriculture. Land-Grant Universities were the primary stakeholders that mentioned education with extension and national organizations supporting secondary and higher education also emphasizing this theme. Improved agricultural literacy and support for STEM and STEAM educational opportunities were emphasized by multiple stakeholders. Respondents provided a sense that life-long education about agriculture within rural areas as well as urban and suburban areas was important. Education beginning as early as kindergarten, continuing through high school, college, as well as collaborative education opportunities with industry were emphasized by stakeholders.

The Association of Public and Land-Grant Universities (APLU) highlighted USDA’s own Employment Opportunities for College Graduates (2015-2020) which points out that the United States is currently not producing enough college graduates with expertise in food, agriculture, natural resources or related sciences (FANRRS) to meet the demand by employers for these professionals. Stakeholders advocated for continued support for educational programs involving women and minorities. 1994 Land-Grant institutions were mentioned as unique agricultural education pipelines helping American Indian communities move toward self-sufficiency.

Improved integration of education with research and extension was emphasized, as well as the need for increased funding opportunities for new investigators and first time applicants. Respondents also supported continuing the education of future leaders across disciplines through NIFA's existing programs in the areas of food safety, veterinary medicine, nutrition, pesticide safety, and family and consumer sciences. Extension programs that support agricultural literacy through community and school gardens and farmers markets, as well as providing early exposure to research experiences were mentioned. The Research and Extension Experiences for Undergrads (REEU) and Sustainable Agriculture Research and Education (SARE) Programs support such opportunities.

Conclusion

The general sentiment from NIFA staff and stakeholders is that NIFA Listens was a worthwhile, informative, and positive effort. Stakeholder enthusiasm for NIFA Listens was repeated throughout the stakeholder listening effort, especially from participants at the in person meetings. Stakeholders that participated in these meetings demonstrated a notable commitment to being heard. Future stakeholder listening session should be chosen to represent different geographic areas of the country's agricultural stakeholder landscape. It is recommended that future stakeholder feedback planning efforts begin earlier to allow for more advanced notice of NIFA's intent to collect data.

Stakeholder feedback was shared among NIFA staff, and program leads have been encouraged to dig deep into the data to understand the details of stakeholder comments. Budget constraints, RFA timelines, and agency and departmental priorities will impact the timeline and ability to implement suggested stakeholder priorities and opportunities.

The NIFA Listens process will be evaluated so that the effort put forth and stakeholder input received can be maximized. A survey on the process will be made available to all participants that provided email addresses with their comments so that suggestions can be incorporated for future efforts. NIFA Listens will likely be repeated, however the frequency and locations are yet to be determined. All future opportunities will be announced on the [NIFA Listens website](#).

Appendix I: Participating Stakeholders

Organizations that provided comment to NIFA Listens and manner in which they commented.

Organization Name	Stakeholder Input Form	In-Person	Email
1890 Association of Extension Administrators			X
Accelergy Corporation	X		
Agricultural & Applied Economics Association (AAEA)		X	
Agronomy Society of America, Crop Science Society of America, Soil Science Society of America	X		
'Aina Ho'okupu O Kilauea	X		
Alabama Farmers Federation		X	
Alaska Peony Growers Association	X		
Algae Biomass Organization	X		X
American Agri-Women	X		
American Association for Agricultural Education (AAAE)	X		X
American Association of Family and Consumer Sciences (AAFCS)	X		
American Feed Industry Association	X		X
American Forest Foundation	X		
American Frozen Food Institute	X		
American Indian Higher Education Consortium, and First Americans Land Grant Consortium	X		
American Phytopathological Society Public Policy Board	X		
American Public Gardens Association			X
American Society for Nutrition (ASN)	X	X	X
American Society of Plant Biologists	X		
American Veterinary Medical Association	X		X
Association of American Veterinary Medical Colleges	X		X
Association of Public and Land-grant Universities, Board on Agriculture Assembly's Academic Programs Section		X	
Association of Southern Regional Extension Directors (ASRED)	X		
Auburn University	X		
Audubon Minnesota	X		
Beech Hollow Wildflower Farm	X		
Bellevillehops Tea	X		
Berkshire Environmental Action Team, Inc. (BEAT)	X		

Organization Name	Stakeholder Input Form	In-Person	Email
Cal Poly State University		X	
California Certified Organic Farmers	X		X
California Specialty Crops Council		X	
California State University Chico, College of Agriculture	X		
Carolina Farm Stewardship Association	X		X
Center for Produce Safety	X		
Chicago Botanic Garden	X		
Controlled Environment Agriculture Global Association		X	
Coordinating Coalition for Soil Health		X	
Cornell University Pesticide Management Education Program		X	
Cotton Incorporated	X		
Council on Dairy Cattle Breeding	X		X
Crossroads Community Food Network			X
Cultivate Kansas City	X		X
D.C. Legislative and Regulatory Services	X		
Defeat Malnutrition Today	X		
Earth's Harvest	X		
Emerging Threats to Forests Research Group	X		
ENECO Texas, LLC	X		
Entomological Society of America	X	X	
Experiment Station Committee for Agriculture Education Research			X
Experiment Station Committee on Organization and Policy (ESCOPE)		X	
Extension Committee on Organization and Policy (ECOP)	X	X	X
eXtension Foundation	X		
Fall River County Weed and Pest	X		
Farmer Frog	X		
FDA/Center for Veterinary Medicine, Office of Minor Use and Minor Species Animal Drug Development	X		
Florida Association of Native Nurseries	X		
Florida Wildflower Cooperative	X		
Fort Valley State University	X		X
Foundation for Meat and Poultry Research and Education		X	
Friends of Plant Conservation	X		

Organization Name	Stakeholder Input Form	In-Person	Email
Functional Annotation of Farm Animal Genomes (FAANG)	X	X	
Georgia Center for Urban Agriculture			X
Georgia Fruit and Vegetable Growers Association	X		X
Global Growers	X		X
Greenbelt Native Plant Center	X		
Haskell Indian Nations University	X		
Hixson High School	X		X
Homa Bay County Green Growth Initiative	X		
Hudson River Apiary Society	X		
Illinois Association of Soil and Water Conservation Districts, Illinois Land Improvement Contractors, Tri-County Electric Coop, Southern Illinois Power Coop	X		
Illinois Soybean Association	X		
Inside Passage Seeds	X		
Institute for Applied Ecology	X		
Institute of Electrical and Electronics Engineers			X
Institute of Food Technologists	X		
International Rescue Committee			X
Iowa Corn Growers Association	X		X
Iowa Pork Industry Center			X
Iowa Soybean Association	X		
Iowa State University	X		X
Iowa State University, College of Agriculture & Life Sciences	X		
IPM Institute of North America, Inc.	X		
Ivanhoe Neighborhood Council	X		
Kansas Grain Sorghum Commission and Association			X
Kansas Grain Sorghum Producers Association	X		
Kansas State University			X
Kansas State University Cooperative Extension			X
Kansas Wheat Commission	X		X
K-State Research and Extension - Douglas County	X		
Maine Integrated Pest Management Council		X	
Michigan State University	X		
Mississippi State University			X
Mississippi State University, Southern Rural Development Center	X		
Missouri Wine and Grape Board	X		X
National Aquaculture Association		X	

Organization Name	Stakeholder Input Form	In-Person	Email
National Association of Extension 4-H Agents	X		X
National Association of Plant Breeders	X		X
National Association of Plant Breeders, National Plant Breeding Coordination Committee			X
National Association of Plant Breeders, Plant Breeding Coordination Committee	X		
National Association of University Forest Resource Programs	X		X
National Bison Association	X	X	
National Bobwhite Conservation Initiative	X		
National Children's Center for Rural and Agricultural Health and Safety, Marshfield Clinic Research Institute	X		
National Conference on Urban Entomology	X		
National Corn Growers Association	X		X
National Dairy Council	X		
National Grape and Wine Initiative	X		X
National Healthy Homes Partnership	X		
National Initiative for Consumer Horticulture	X		X
National Organic Coalition	X		
National Sorghum Producers		X	
National Sustainable Agriculture Coalition	X		
National Wild Pheasant Conservation Plan and Partnerships	X		
NCAC-24 Agricultural Education Research Committee			X
North American Meat Institute	X	X	
North Carolina Department of Agriculture and Consumer Services, Plant Conservation Program	X		
North Carolina State University	X		
North Central Aging Network	X		
North Central Region Aging Network	X		
North Central Region Water Network	X		
North Dakota Department of Health	X		
North Dakota State University Extension Service	X		
Northeast Extension Directors	X		X
Northeast Extension Farm Energy Group			X
Northeastern Regional Association of State Agricultural Experiment Station Directors	X		
Northern Light Farm	X		

Organization Name	Stakeholder Input Form	In-Person	Email
Northwest Horticultural Council		X	
NRSP8: National Animal Genome Research Program Coordinators	X		
Ohio Ecological Food and Farm Association		X	
Oklahoma State University	X	X	X
Oklahoma State University, Agricultural Education, Communications and Leadership			X
Oklahoma State University, Family and Consumer Sciences Education program	X		
Oregon State University Extension Service			X
Oregon State University, College of Agricultural Sciences	X		
Organic Farmers Association	X		
Organic Farming Research Association		X	
Pennsylvania State University	X		
Pork Checkoff		X	
Public Policy Institute of California	X		X
Purdue University, Center for Global Food Security	X		
Regional Agriculture, Forestry and Fishing Centers (AgFF Centers), National Institute for Occupational Safety and Health funded	X		
Renewable Bioproducts Institute, Georgia Institute of Technology	X		
School of Forest Resources & Conservation, University of Florida; ProForest (Proactive Forest Health & Resilience) initiative; CFEOR (Conserved Forest Ecosystems: Outreach & Research) cooperative	X		
Select Sires, Inc.	X		
SFRC, UF	X		
South Dakota State University	X		
South Dakota State University Extension, Range Program	X		
Southern Appalachian Man and Biosphere (SAMAB) Program	X		
Southern Extension and Research Activity - Project Number 46 (SERA-46)	X		
Southern Region Program Leaders Community Development Committee	X		
Texas A&M AgriLife Research	X		

Organization Name	Stakeholder Input Form	In-Person	Email
Texas Organic Research Foundation	X		
Texas Tech University, College of Agricultural Sciences and Natural Resources (CASNR)	X		
Texas Tech University, Department of Agriculture			X
The Fertilizer Institute	X	X	
The Good Food Institute	X		
The International Rescue Committee	X		
U.S. Department of Agriculture	X		
Union of Concerned Scientists		X	X
Union of Concerned Scientists, Food & Environment Program	X		
United Prairie Foundation, Inc.	X		
University of Arizona	X		
University of Arizona, College of Agriculture and Life Sciences			X
University of Arkansas, Division of Agriculture Cooperative Extension Service			X
University of California	X		X
University of California – Davis	X		
University of California – Davis, College of Agricultural and Environmental Sciences	X		
University of California – Davis, School of Veterinary Medicine	X		X
University of California at Berkeley, Berkeley Food Institute	X		X
University of California Cooperative Extension			X
University of California, CalFresh Nutrition Education Program	X		X
University of California, College of Agriculture and Environmental Sciences			X
University of California, Department of Plant Pathology	X		
University of California, Division of Agriculture and Natural Resources	X		
University of California, Division of Agriculture and Natural Resources, Nutrition Policy Institute	X		X
University of California, Division of Agriculture and Natural Resources, Nutrition, Family and Consumer Sciences Program and Policy			X

Organization Name	Stakeholder Input Form	In-Person	Email
University of California, Integrated Pest Management Program	X		
University of California, Statewide Integrated Pest Management Program			X
University of Florida, IFAS	X		
University of Georgia		X	
University of Georgia, College of Agricultural and Environmental Sciences	X		X
University of Georgia, College of Veterinary Medicine			X
University of Georgia, Veterinary Medical Experiment Station			X
University of Georgia, Warnell School of Forestry & Natural Resources	X		X
University of Idaho, College of Natural Resources and Department of Forest, Rangeland, and Fire Sciences	X		
University of Illinois Extension	X		
University of Kentucky	X		
University of Maryland, College Park Department of Environmental Science and Technology	X		
University of Maryland, International Food Safety Training Laboratory			X
University of Missouri Extension State Council			X
University of Missouri, College of Agriculture, Food and Natural Resources	X		
University of Wisconsin-Madison, Center for Integrated Agricultural Systems	X		
USAGDEV	X		
Vecna Robotics	X	X	X
Virginia Association for Biological Farming (VABF)	X		
Virginia Cooperative Extension			X
Virginia Tech, College of Agriculture and Life Sciences			X
Washington State University Center for Sustaining Agriculture and Natural Resources	X		
Washington State Wine Commission	X		
Weed Science Society of America	X		
WERA-1013	X		

Organization Name	Stakeholder Input Form	In-Person	Email
Western Association of Agricultural Experiment Station Directors	X		
Western Extension Directors Association		X	
Western Integrated Pest Management Center	X		X

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