October 20, 2017

The Honorable Michael Conaway, Chairman
House Agriculture Committee

The Honorable Pat Roberts, Chairman
Senate Agriculture, Nutrition, & Forestry Committee

The Honorable Rodney Davis, Chairman
House Agriculture Subcommittee on
Biotechnology, Horticulture, and Research

The Honorable Luther Strange, Chairman
Senate Agriculture Subcommittee on Nutrition,
Agricultural Research, and Specialty Crops

The Honorable Collin Peterson, Ranking Member
House Agriculture Committee

The Honorable Debbie Stabenow, Ranking Member
Senate Agriculture, Nutrition, & Forestry Committee

The Honorable Michelle Lujan Grisham, Ranking Member, House Agriculture Subcommittee on
Biotechnology, Horticulture, and Research

The Honorable Robert Casey, Jr., Ranking Member
Senate Agriculture Subcommittee on Nutrition,
Agricultural Research, and Specialty Crops

Dear Chairmen and Ranking Members,

As organizations concerned about the future of food and agricultural research, we thank you for your leadership and for your continued support of research. We are writing with a series of shared policy recommendations designed to strengthen the next Farm Bill Research Title which are the result of extensive discussion among a diverse set of stakeholders.

As you well know, agriculture remains a pillar of the U.S. economy, accounting for nearly $1 trillion of our GDP, 1 in 10 jobs, and a significant contribution to our nation’s trade balance. Underlying the hard work and success of our nation’s producers is a firm foundation of science and innovation. This foundation, however, is cracking.

The U.S. has been second to China in total public agricultural research funding since 2008. By 2013, China’s spending on public agricultural R&D became nearly double that of the U.S. Though public funding for other forms of domestic research has risen dramatically, the U.S. agricultural research budget has declined in real dollars since 2003. This is an area of R&D where return on investment is estimated at 20 to 1.

The results of this trend are a direct threat to the growth of our agricultural productivity which has slowed in recent years. While research, education, and extension funding has been cut, the threats to our production system are mounting. Whether it be droughts, flooding, or an avian flu epidemic costing producers and consumers millions of dollars, many of the short- and long-term challenges facing agriculture can only be solved through additional research and strengthened collaborations. At stake is our national security, economy, health, and environment. The next Farm Bill represents a crucial opportunity to reverse these trends and reassert our nation’s leadership in agricultural research and extension.

Proponents of food and agricultural research have consistently heard from Congress that our community’s success has been hamstrung by the lack of a shared stakeholder vision. We have
individually pursued advancements in specific programs at times to the detriment of the bigger picture. We have taken this message to heart, engaging in collaborative deliberations over the course of multiple months to develop a series of shared Farm Bill Research Title policy recommendations.

The following policy recommendations are not comprehensive of all participating organizations’ priorities and by no means preclude participating organizations from pursuing additional legislative goals. Rather, they reflect the areas where our priorities overlap. Our recommendations are aimed at not just raising overall research funding, but also maximizing each additional dollar through increasing the coordination, oversight, efficiency, competitiveness, and responsiveness of our public research, education, and extension system.

Our shared recommendations are as follows:

1) Establish an annual $6 billion goal (in FY 2019 dollars) for USDA food and agricultural research over FY 2019-2023.
   a) This figure would be expressed in the Farm Bill as the sum total funding of the following agencies and their respective programs: Agricultural Research Service (ARS); National Institute of Food and Agriculture (NIFA)\(^1\); Economic Research Service (ERS); National Agriculture Statistics Service (NASS).
   b) This goal of $6 billion for USDA REE would double the baseline of each agency from the 2017 enacted appropriations. Each agency would work with Congress to allocate their respective budgets across their programs/lines using measures of increased efficiency and high impact as guiding principles.
   c) This goal of $6 billion for USDA REE assumes the need for additional dollars to be provided as part of the allocation process and does not assume a reallocation or transfer of funding from other USDA functions.

2) Renew and make permanent USDA competitive grant programs currently receiving direct mandatory Farm Bill funding.
   a) Renew the permanently-funded Specialty Crop Research Initiative (SCRI) at no less than its current $80 million annual direct funding level.
   b) Renew both the Beginning Farmer and Rancher Development Program (BFRDP) and the Organic Agriculture Research and Extension Initiative (OREI) with permanent direct funding set for each at no less than $50 million annually.

3) Renew the Foundation for Food and Agriculture Research (FFAR) with direct funding of $250 million, with $50 million obligated in each of the fiscal years for the period FY 2019-2023.

4) In order to increase the competitiveness and quality of applications, eliminate across the board matching requirements for competitive grants programs within NIFA currently selectively applied on some institutions, agencies, and organizations.

\(^1\) Increased support for NIFA would include the research, education, extension, and outreach functions and all of the supported institutions, including the 1862s, 1890s, 1994s, Hispanic-serving, non-land grant agricultural colleges, and other NIFA partners.
5) Continue the current law designation of the REE Under Secretary as the Chief Scientist of the Department.

6) Establish a Strategic Investment Fund (SIF) to be under the direction of the REE Under Secretary / Chief Scientist to improve collaboration in addressing emerging opportunities with respect to pressing societal challenges, especially those requiring urgent emergency responses, those that may be high risk but with extraordinary potential impact, or those that require interdisciplinary systems approaches that involve more than one agency.
   a) The SIF shall be funded via a one-half of one percent (0.5%) assessment on all NIFA and ARS program funding, with the exception of NIFA capacity funding (including capacity grants for non-land grant colleges of agriculture) and ARS buildings and facilities, repair and maintenance, transfers, trust funds, and the National Agriculture Library.
   b) SIF funding shall start in the first fiscal year in which the total funding increase (relative to FY 2017 enacted levels) for the to-be-assessed funding lines exceeds the dollar amount of the assessment.

7) Retain the staff positions authorized by current law for the Office of the Chief Scientist as a means of increasing oversight, efficacy, and avoiding potential research duplication. Clarify that these positions shall be filled through transfer of personnel from the program planning and evaluation offices and other appropriately trained personnel within the four REE agencies, with a term of service of at least three (3) years, or through advertising and hiring through regular channels.

8) Establish enhanced stakeholder engagement opportunities on a no less than annual basis to strengthen the functioning and utility of the National Agricultural Research, Education, Extension, and Economics Advisory Board (NAREEEAB) and reinvigorate engagement of researchers and end users.
   a) Expanded stakeholder sessions should be held on a rotating basis in different regions of the country, and the recommendations of the stakeholder sessions should be reviewed by the Board, forwarded to the Secretary along with additional recommendations of the Board, and responded to by the Secretary or Deputy Secretary within 60 days of submission as well as in person at the next Board meeting.
   b) Establish a new Science and Technology Assessment standing committee of the NAREEEAB to enable it to better fulfill its technology assessment function. The Science and Technology Assessment Committee should include no fewer than two members of the Board, but also draw additional members from among experts in the field of science and technology assessment.

9) Mandate funding for the National Academies of Sciences, Engineering, and Medicine (NASEM) to produce a periodic report to identify scientific opportunities in food and agriculture and to institutionalize long-term strategic planning and priority setting for food and agricultural research.
   a) This report should be undertaken every ten (10) years and include a midpoint assessment.
b) This report should be developed in conjunction with the National Agricultural Research, Extension, Education, and Economics Advisory Board (NAREEEAB) and effectively engaged end-users and other stakeholders.

c) NASEM’s current *Breakthroughs 2030* study shall be considered the first such ten-year assessment.

10) Establish a committee (Agricultural Cyberinfrastructure, Data and Statistics Committee) within the Office of the Chief Scientist for the purpose of building a national strategic vision for cyberinfrastructure, data, and statistics that enables using the data for the benefit of producers, consumers, and taxpayers. The committee should include relevant USDA leadership, subject matter experts in economics and other sciences, and strategic stakeholders.

The participating organizations also recognize the global nature of agriculture in the 21st Century and fully support U.S. efforts towards **greater international collaboration** to leverage R&D resources and expertise. We encourage the participation of USDA and U.S. scientists in partnerships with international research institutes where there are mutual benefits for U.S. agriculture and other nations, such as addressing emerging plant and animal diseases or improving crop varieties and animal breeds.

Finally, we recognize the critical need for agricultural research **infrastructure improvements** and maintenance in the United States. We fully support the efforts of the Association of Public and Land-grant Universities (APLU), the ARS, and others to identify, prioritize, and address these needs, ensuring our nation’s research facilities, equipment, and workforce are preeminent and remain globally competitive. The group recommends the inclusion of research infrastructure as part of any broader federal efforts related to improving our national infrastructure.

Attached to this letter are more detailed descriptions and rationales for each respective policy recommendation. We would appreciate the opportunity to meet with you and your respective staffs to discuss these recommendations further as soon as possible.

Thank you for your consideration and for all of the work you do on behalf of agriculture and agricultural research. We look forward to working with you in developing a Farm Bill Research Title that serves the vital needs our nation and restores our status as the world leader in agricultural research and innovation.

Sincerely,

- AFRI Coalition
- Alliance of Crop, Soil and Environmental Science Societies
- Association of American Veterinary Medical Colleges
- American Farmland Trust
- American Malting Barley Association
- American Olive Oil Producers Association
- American Phytopathological Society
• American Pistachio Growers
• American Society for Horticultural Science
• American Society for Microbiology
• American Society for Nutrition
• American Society of Agronomy
• American Society of Plant Biologists
• American Soybean Association
• Aquatic Plant Management Society
• Carolina Farm Stewardship Association
• Center for Rural Affairs
• Charles Valentine Riley Memorial Foundation
• Consumer Federation of America
• Colorado State University
• Crop Science Society of America
• Dairy Grazing Apprenticeship
• Delta Land and Community
• Entomological Society of America
• Farm Journal Foundation
• Global Harvest Initiative
• Institute of Food Technologists
• Iowa State University
• Kansas Rural Center
• Kansas State University
• Land Stewardship Project
• Michael Fields Agricultural Institute
• National Association of Plant Breeders
• National Barley Growers Association
• National Barley Improvement Committee
• National Center for Appropriate Technology
• National Coalition for Food and Agricultural Research
• National Farmers Union
• National Organic Coalition
• National Sunflower Association
• National Sustainable Agriculture Coalition
• National Young Farmers Coalition
• North Carolina State University College of Agriculture and Life Sciences
• Ohio State University College of Food, Agriculture, and Environmental Sciences
• Oregon State University
• Oregon Tilth
• The Organic Center
• Organic Farmers Association Steering Committee
• Organic Farming Research Foundation
• Organic Seed Alliance
• Organic Trade Association
• Rural & Agriculture Council of America
• Society for Range Management
• Soil and Water Conservation Society
• Soil Science Society of America
• Supporters of Agricultural Research Foundation
• Tuskegee University College of Agriculture, Environment, and Nutrition Sciences
• Union of Concerned Scientists
• University of Arizona
• University of California-Davis, School of Veterinary Medicine
• University of Illinois at Urbana-Champaign
• University of Minnesota College of Food, Agricultural and Natural Resource Sciences
• University of Nebraska–Lincoln, Institute of Agriculture and Natural Resources
• US Canola Association
• Virginia Association for Biological Farming
• Weed Science Society of America
cc:
The Honorable Rodney Frelinghuysen, Chairman
House Appropriations Committee
The Honorable Nita Lowey, Ranking Member
House Appropriations Committee

The Honorable Thad Cochran, Chairman
Senate Appropriations Committee
The Honorable Patrick Leahy, Ranking Member
Senate Appropriations Committee

The Honorable Robert Aderholt, Chairman
House Agriculture Appropriations Subcommittee
The Honorable Sanford Bishop, Ranking Member
House Agriculture Appropriations Subcommittee

The Honorable John Hoeven, Chairman
Senate Agriculture Appropriations Subcommittee
The Honorable Jeff Merkley, Ranking Member
Senate Agriculture Appropriations Subcommittee

Members of the House and Senate Agriculture Committees
FARM BILL RESEARCH, EDUCATION, AND EXTENSION TITLE
POLICY RECOMMENDATIONS AND RATIONALES

The following policy recommendations for the 2018 Farm Bill Research Title were developed through a collaborative process conducted among a diverse set of food and agricultural research stakeholders. The recommendations are not comprehensive of all participating organizations’ priorities and by no means preclude participating organizations from pursuing additional legislative goals. Rather, they reflect the areas where priorities overlap. They are aimed at not just raising overall research funding, but also maximizing each additional dollar through increasing the coordination, oversight, efficiency, competitiveness, and responsiveness of our public research system.

RECOMMENDATION #1

Establish an annual $6 billion goal (in FY 2019 dollars) for USDA food and agricultural research over FY 2019-2023.
   a) This figure would be expressed in the Farm Bill as the sum total funding of the following agencies and their respective programs: Agricultural Research Service (ARS); National Institute of Food and Agriculture (NIFA); Economic Research Service (ERS); National Agriculture Statistics Service (NASS).
   b) This goal of $6 billion for USDA REE would double the baseline of each agency from the 2017 enacted appropriations. Each agency would work with Congress to allocate their respective budgets across their programs/lines using measures of increased efficiency and high impact as guiding principles.
   c) This goal of $6 billion for USDA REE assumes the need for additional dollars to be provided as part of the allocation process and does not assume a reallocation or transfer of funding from other USDA functions.

Rationale: Over the past decade our country has fallen behind other nations in public funding for food and agricultural research. Public funding in this area has been declining in real dollars since 2003. In 2008, China surpassed the U.S. in total public research funding. Since 2013, China’s spending on public agricultural R&D has been nearly double that of the U.S. This trend threatens the growth of agricultural productivity in the U.S. as it increases in other countries. While research funding has reduced, the threats to our food system are mounting. Research is foundational to ensuring the productivity of our producers, affordable food for consumers, as well as our national security, safety, health, environment, and ability to compete on a global stage. Furthermore, research investments will help the U.S. develop and retain the next generation of researchers and capitalize off of new scientific opportunities unavailable decades ago. Research represented less than 1 percent of total 2014 Farm Bill outlays.

RECOMMENDATION #2

Renew and make permanent USDA competitive grant programs currently receiving direct mandatory Farm Bill funding.
   a) Renew the permanently-funded Specialty Crop Research Initiative (SCRI) at no less than its current $80 million annual direct funding level.
   b) Renew both the Beginning Farmer and Rancher Development Program (BFRDP) and the Organic Agriculture Research and Extension Initiative (OREI) with permanent direct funding set for each at no less than $50 million annually.

2 Increased support for NIFA would include the research, education, extension, and outreach functions and all of the supported institutions, including the 1862s, 1890s, 1994s, Hispanic-serving, non-land grant agricultural colleges, and other NIFA partners.
**Recommendation #3**

Renew the Foundation for Food and Agriculture Research (FFAR) with direct funding of $250 million, with $50 million obligated in each of the fiscal years for the period FY 2019-2023.

**Rationale:** The establishment and direct funding of the Beginning Farmer and Rancher Development Program (BFRDP), the Specialty Crop Research Initiative (SCRI), and the Organic Agriculture Research and Extension Initiative (OREI) represent decisions over the past 15 years by the Agriculture Committees and the Congress as a whole to ramp up investments in historically underfunded agricultural research, education, and extension challenge areas. Building on these investments in the next farm bill will not only help meet the high demand for these competitive grants programs, but will build on the widely-supported societal goals of (respectively) reversing the aging of agriculture and supporting the next generation of American agriculture, increasing access to fresh produce to bring consumption into closer alignment with U.S. dietary goals, and meeting burgeoning consumer demand for organic products. In addition, increased farm bill funding for these programs will put an important down payment on the $6 billion annual goal in Recommendation #1, which includes both mandatory and discretionary programs.

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**Recommendation #4**

In order to increase the competitiveness and quality of applications, eliminate across the board matching requirements for competitive grants programs within NIFA currently selectively applied on some institutions, agencies, and organizations.

**Rationale:** USDA REE competitive grants programs should represent an open playing field for the best and brightest ideas, regardless of their institutional affiliation. The 2014 Farm Bill added a new requirement for financial matching to be applied across all NIFA competitive grants programs, exempting certain types of institutions while imposing an unfair barrier to entry for others. In practice, this matching requirement has only been selectively applied to certain programs. For instance, AFRI’s matching requirement has been removed annually through appropriating legislation. The elimination of this requirement will help to harness the full benefits of competition. Note that this recommendation is not offered as opposition of matching requirements per se, which may be appropriate to certain programs and specifically included in their authorization. Rather, it is in opposition to across the board matching requirements applied only to select entities.
**Recommendation #5**

Continue the current law designation of the REE Under Secretary as the Chief Scientist of the Department.

**Rationale:** Preserving present policy of the USDA REE Under Secretary also serving as the Chief Scientist of the Department will continue to empower both roles, improve scientific coordination, oversight, and integrity, increase responsiveness, and raise the profile of food and agricultural research and USDA’s contribution within the federal research family and worldwide.

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**Recommendation #6**

Establish a Strategic Investment Fund (SIF) to be under the direction of the REE Under Secretary / Chief Scientist to improve collaboration in addressing emerging opportunities with respect to pressing societal challenges, especially those requiring urgent emergency responses, those that may be high risk but with extraordinary potential impact, or those that require interdisciplinary systems approaches that involve more than one agency.

a) The SIF shall be funded via a one-half of one percent (.5%) assessment on all NIFA and ARS program funding, with the exception of NIFA capacity funding (including capacity grants for non-land grant colleges of agriculture) and ARS buildings and facilities, repair and maintenance, transfers, trust funds, and the National Agriculture Library.

b) SIF funding shall start in the first fiscal year in which the total funding increase (relative to FY 2017 enacted levels) for the to-be-assessed funding lines exceeds the dollar amount of the assessment.

**Rationale:** To further strengthen strategic coordination and allow for short-term, goal-driven investments that may involve multiple USDA REE agencies, the REE Under Secretary / Office of the Chief Scientist should be provided with a Strategic Investment Fund (SIF). The SIF would specifically address pressing challenges, especially those that require urgent emergency responses, those that may be high risk but with extraordinary potential impact, or those that require interdisciplinary systems approaches that involve more than one agency. The SIF would also provide the Under Secretary / Chief Scientist with the means to do cooperative, crosscutting, and catalytic joint projects with NSF, NIH, DOE, USGS and other federal research agencies. Rather than creating a separate, new funding line, we propose that the SIF be funded via a small assessment on all NIFA competitive grant programs and ARS research projects. A “trigger” would enable the fund to take effect so as not to deleteriously impact the proposed assessed programs in the event of level or declining research funding.

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**Recommendation #7**

Retain the staff positions authorized by current law for the Office of the Chief Scientist as a means of increasing oversight, efficacy, and avoiding potential research duplication. Clarify that these positions shall be filled through transfer of personnel from the program planning and evaluation offices and other appropriately trained personnel within the four REE agencies, with a term of service of at least three (3) years, or through advertising and hiring through regular channels.
Recommendation #8

Establish enhanced stakeholder engagement opportunities on a no less than annual basis to strengthen the functioning and utility of the National Agricultural Research, Education, Extension, and Economics Advisory Board (NAREEEAB) and reinvigorate engagement of researchers and end users.

a) Expanded stakeholder sessions should be held on a rotating basis in different regions of the country, and the recommendations of the stakeholder sessions should be reviewed by the Board, forwarded to the Secretary along with additional recommendations of the Board, and responded to by the Secretary or Deputy Secretary within 60 days of submission as well as in person at the next Board meeting.

b) Establish a new Science and Technology Assessment standing committee of the NAREEEAB to fulfill its technology assessment function. The Science and Technology Assessment Committee should include no fewer than two members of the Board, but also draw additional members from among experts in the field of science and technology assessment.

Rationale: The diversity of our cropping and livestock systems and regional issues requires extensive engagement with stakeholders to appropriately identify current and emerging problems and opportunities; ensure effective, responsive, and timely research; set priorities and assess results; engage viable implementation for research outputs; increase accountability of research programs; and ensure producers needs are noted, understood, and met. This recommendation is offered to strengthen and increase the role of stakeholder input to inform USDA REE decision-making. Congress charged the NAREEEAB with reviewing USDA mechanisms for “technology assessment (which should be conducted by qualified professionals) for the purposes of (A) performance measurement and evaluation[...] (B) implementation of the national research policies and priorities[...] and (C) the development of mechanisms for the assessment of emerging public and private agricultural research and technology transfer initiatives.” The Board, however, is not presently equipped to fulfill that function without a new standing committee that includes experts in the field. This recommendation will allow NAREEEAB to fulfill its congressional mandate in service of advancing the public good.
Recommendation #9

Proposal #9: Mandate funding for the National Academies of Sciences, Engineering, and Medicine (NASEM) to produce a periodic report to identify scientific opportunities in food and agriculture and to institutionalize the long-term strategic planning and priority setting for food and agricultural research.

a) This report should be undertaken every ten (10) years and include a midpoint assessment.

b) This report should be developed in conjunction with the National Agricultural Research, Extension, Education, and Economics Advisory Board (NAREEEAB) and effectively engaged end-users and other stakeholders.

c) NASEM’s current *Breakthroughs 2030* study shall be considered the first such ten-year assessment.

**Rationale:** While additional research funding can help to address specific challenges, it is equally important that new funding be accompanied by a strategic vision from the agricultural science community and other stakeholders. This report should articulate gaps in current research, the greatest opportunities and needs within the field, areas for greater interdisciplinary focus, and the potential pathways that will lead to a new generation of scientific advancements. We recommend Congress mandate a regular 10-year science planning study by NASEM to be accompanied by a 5-year, midpoint progress review. The current NASEM *Breakthroughs 2030* should be accepted as the first such study and serve as a model to be built upon for subsequent efforts. Congress and USDA leadership should also take into account other significant studies examining scientific priorities and ways to strengthen our nation’s research system, such as APLU’s 2017 *The Challenge of Change* Report.

Recommendation #10

Proposal #10: Establish a committee (Agricultural Cyberinfrastructure, Data, and Statistics Committee) within the Office of the Chief Scientist office for the purpose of building a national strategic vision for cyberinfrastructure, data, and statistics that enables using the data for the benefit of producers, consumers, and taxpayers. The committee should include relevant USDA leadership, subject matter experts in economics and other sciences, and strategic stakeholders.

**Rationale:** Cyberinfrastructure refers to collaborative environments that support advanced statistics management as well as data acquisition, storage, integration, mining, and visualization. It connects laboratories, data, computers, and people with the goal of enabling the development of novel scientific theories and knowledge. It also includes the capacity for computing and information processing services to be securely distributed. Agricultural and consumer information are particularly geospatial and private in nature. In agriculture, privacy laws are critical to honor with regards to data, statistics, and analysis. Cyberinfrastructure planning can enhance and maintain privacy while enabling new innovations and the identification of opportunities in the marketplace. Several areas developing within this field are changing at a rate that demands careful and proactive planning. These areas include, but are not limited to, precision agriculture information, economics and agricultural statistics, plant genetics, and pest or disease information. There is currently no integrated cyberinfrastructure plan to guide USDA decision-making. The establishment of a cyberinfrastructure committee, the creation of a plan, and subsequent actions will enable the U.S. to maximize potential innovation from research collaborations, while protecting privacy, increasing the quality of U.S. market and trade information, and supporting national, regional, and local evidence-based policy analysis.
Ensuring Flexibility for USDA to Collaborate on International Issues

The participating organizations recognize the global nature of agriculture in the 21st Century and fully support U.S. agriculture’s efforts towards greater international collaboration when in our national interest to leverage international R&D resources and expertise. The data show that U.S. investments in international R&D have resulted in increased U.S. agricultural productivity, disease resistance, and improved crop varieties. This collaboration is essential for a thriving and healthy U.S. agricultural sector, especially as it looks to grow by expanding market access overseas. We recommend encouraging the active participation of USDA and U.S. scientists in partnerships with international research institutes where there are mutual benefits for international and U.S. agriculture. This may include collaboration on R&D to address emerging plant and animal diseases, improve crop varieties and animal breeds, and innovations for more efficient food production systems.

Rationale: U.S. agriculture directly benefits from research conducted through international projects, including those led by international agricultural research centers. U.S. investments in international research entities like CGIAR have led to substantial increases in wheat and rice productivity for U.S. farmers. They have also given the U.S. access to gene banks and collaborative research on emerging global threats to agriculture like highly infectious diseases. Section 1402 of the Food and Agriculture Act of 1977 governing Research, Extension, and Education provides statutory language which focuses on “enhancing the competitiveness of US agriculture.” This is interpreted as limiting USDA’s ability to collaborate on agricultural R&D and innovation with international partners on emerging plant and animal threats. While U.S. R&D health mechanisms have the flexibility to work on emerging threats before they enter the U.S., USDA is behind the curve on potential breakthroughs on challenges to U.S. agriculture ranging from Avian Influenza, Foot and Mouth Disease, Wheat Rust, and African Swine Fever.

Inclusion of Vital Research Infrastructure within other Federal Infrastructure Efforts

The participating organizations recognize the critical need for agricultural research infrastructure improvements and maintenance in the United States. We fully support the efforts of the Association of Public and Land-grant Universities (APLU), the ARS, and others to identify, prioritize, and address these needs, ensuring our nation’s research facilities, equipment, and workforce are preeminent and remain globally competitive. The group recommends the inclusion of research infrastructure as part of any broader federal efforts related to improving our national infrastructure.

Rationale: Recent studies, such as the 2015 A National Study of Capital Infrastructure and Deferred Maintenance at Schools of Agriculture report identified $8.4 billion in deferred maintenance at our nation’s agricultural research institutions. Such aging infrastructure impedes our nation’s ability to conduct 21st Century science.