Wisconsin Agricultural Experiment Station (WAES)
FY17 CALL FOR PROPOSALS:
Hatch and McIntire-Stennis

Funding for Hatch projects (individual investigator, multidisciplinary and multistate) is available for the period October 1, 2016 – September 30, 2017. No funding for new McIntire-Stennis projects will be available during this period; funding for new projects is expected to be available for the FY18 competition.

New this year

This year's call for proposals has been significantly revised to improve clarity and align proposal format with that of major federal agencies. We hope you find these changes helpful. Questions and comments about the new format should be directed to Casey Hillmer (casey.hillmer@wisc.edu).

Submission deadline

Proposals are due to the WAES office via WISPER by **4:30 p.m. (CDT) Friday, September 4, 2015**. Requests for time extensions will not be granted and proposals received after the deadline will not be accepted.

For more information or assistance contact

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Capacity Grants

USDA NIFA (National Institute of Food and Agriculture) provides support for research and extension activities at land-grant institutions through grants awarded on the basis of statutory formulas. The formulas are composed of a base grant (equal to all states) plus two proportions: rural population of the state relative to the nation, and farm population of the state relative to the farm population of the nation. Legislative mandates for capacity grant funding include the Hatch Act of 1862, McIntire-Stennis Act of 1962 and the Animal Health and Disease Research Program. (The Congressional Acts can be found in Appendix A.) Receipt of federal capacity funds is contingent on a 1:1 match by the state. Note that in the language of USDA and U.S. land grant universities, "capacity funds" = "formula funds", and these are sometimes referred to generically as "Hatch funds". These funds are administered through the *agricultural experiment stations* (Box 1) located at land-grant universities across the nation. (Note: the UW-CALS Agricultural Experiment Station is a virtual entity established to administer federal formula funds and advance agricultural research; it should not be confused with the UW-CALS *Agricultural Research Stations*, the system of physical research stations located across the state of Wisconsin to promote research, education and outreach in agriculture.)

Unlike most land-grant universities, where capacity funds are allocated primarily to support the salaries of faculty in colleges of agriculture, UW-Madison distributes most of its funds via an internal competitive grant process. Research proposals that are largely agricultural in nature should be targeted toward Hatch funds; those that address issues related to forest production should be targeted toward McIntire-Stennis funds (see Box 1 for descriptions of terms). Hatch and McIntire-Stennis proposals are generally written for *individual projects* (one CALS PI and a single graduate student; Box 1). Some Hatch and McIntire-Stennis funds, however, will be awarded to multidisciplinary projects (two or more PIs; Box 1).

Box 1. Glossary of terms

Hatch project – funds research on all aspects of agriculture, including soil and water conservation and use; plant and animal production, protection, and health; processing, distribution, safety, marketing, and utilization of food and agricultural products; forestry, including range management and range products; multiple use of forest rangelands, and urban forestry; aquaculture; home economics and family life; human nutrition; rural and community development; sustainable agriculture; molecular biology; biotechnology; and to train future agricultural scientists.

Hatch multistate project – funds research on a common theme conducted by institutions in multiple states. These are USDA designated projects; the list of current, active projects can be found in Appendix B.

Individual project – a project directed by a single PI from CALS. The project may include a collaborator from another UW department or university. The PI must be paid on the project.

McIntire-Stennis project – funds research on all aspects of forestry production, utilization and protection of forest land; and to train future forestry scientists.

Multidisciplinary project - a project with multiple investigators from UW-Madison, either from CALS (preferred) or non-CALS departments (UW-Madison only). All individuals must be paid on the project.

WAES - Wisconsin Agricultural Experiment Station administers the capacity grant program in the College of Agricultural and Life Sciences.

Eligibility Information

Hatch funding is available to faculty members with tenure homes in CALS or SOHE, or to faculty in other departments who maintain a minimum 10% FTE in CALS. Although faculty from other colleges and universities may be collaborators on a project, proposals should demonstrate that the required expertise does not exist within CALS or SOHE.

Multidisciplinary projects may include co-investigators from the same department if the investigators represent different disciplinary fields. Co-investigators from non-CALS departments (UW-Madison only) will be allowed, but are preferred to come from other CALS departments. Multidisciplinary projects must have at least two faculty (PI and co-investigator) from UW; collaborators from other institutions will also be allowed. A clear justification for the role of each investigator in the project must be included.

Faculty may not be the Principal Investigator on more than one individual project at a time. Faculty may concurrently hold both an individual investigator Hatch or McIntire-Stennis grant, and a multidisciplinary Hatch or McIntire-Stennis grant.

Research Priorities

As it has historically, the Hatch and McIntire-Stennis competition will continue to support a wide range of research. As a result of USDA's National Priorities, however, each proposal *must* be strongly linked to one or more of the Eight National Priorities and *must* be clearly agriculturally or forestry related. PIs with a question regarding fit of a topic with USDA's priorities should refer to the Manual of Classification for Agricultural and Forestry Research, Education, and Extension (Revision VIII) for a list of USDA's Knowledge Areas: http://cris.nifa.usda.gov/manual.html.

Proposals not addressing one or more of the Eight National Priorities will not be accepted for review. Each proposal is judged on appropriateness of the proposed research for capacity funding, quality of the science, and likelihood of successful achievement of those goals. It is the PI's responsibility to unambiguously establish the agricultural relevance of the work. Basic research on non-agricultural model systems (e.g., rodents, *Arabidopsis*) may be acceptable, but their relevance for agriculture must be clear.

Hatch projects submitted as "Multistate" projects must fit within the project objectives of an existing Multistate project (National, NC, NE, S or W projects). Information on these projects can be found by logging in to the following website as a guest member: http://www.nimss.umd.edu/, clicking on "Project Home" and then to the National, NC, NE, S or W links for lists and information on projects. See Appendix B for a list of eligible Multistate projects available.

USDA'S eight national priorities

USDA's national priority areas for research, development and extension can be found at: http://www.ree.usda.gov/ree/news/USDA_REE_Action_Plan_03-2014.pdf

Hatch and McIntire-Stennis proposals should address one or more of the priorities below *and* align with the individual Hatch and McIntire-Stennis program language.

1. *Global food security and food availability: crops and agronomic plants* - USDA supports research that develops food production systems that enhance crop health, while increasing the production capacity, efficiency and nutritional value of food. This research may span the range from

genetic/genomic science, to field production, to understanding of agricultural markets. USDA also supports research reducing the environmental impacts of agricultural production by optimizing the use of inputs such as water, energy, pesticides, and fertilizer.

2. *Global food security and food availability: livestock and poultry* - USDA supports research that develops food production systems that enhance animal health, while increasing the production capacity, efficiency and nutritional value of food. For example, USDA supports research that improves feed and forage use efficiency in animals, while developing new varieties to mitigate losses from animal disease that impact livelihood and health of people. USDA also supports research on minimizing the environmental impacts of livestock and poultry production.

3. *Climate change and energy needs* - USDA supports research that generates knowledge to develop an agriculture system that maintains high productivity in the face of climate changes and reduces greenhouse gas emissions. This work will help producers to plan and make decisions in adapting to changing environments, sustaining economic vitality, and taking advantage of emerging economic opportunities offered by climate change mitigation technologies. USDA also contributes to the President's goal of energy independence by supporting science to develop biomass used for biofuels, design optimum forest products and crops for bioenergy production, and produce value-added bio-based industrial products

4. *Sustainable use of natural resources* - USDA supports research to improve soil, air and water resources while supporting agricultural and forest production on working lands.

5. *Nutrition* - USDA supports research to explore basic human nutrition, and to identify effective measures that guide individuals and families to make informed, science-based decisions that will promote health and reduce malnutrition in high-risk populations.

6. *Food safety* - USDA supports research to reduce the incidence of food-borne illnesses and provides a safer food supply by eliminating causes of microbial contamination and antimicrobial resistance, educating consumer and food safety professionals, and developing food processing technologies to improve food safety.

7. *Education and science literacy* - USDA supports research on how to best recruit and educate the next generation of scientists and skilled workers for food, agriculture, and natural resources.

8. *Rural prosperity* - USDA supports research that informs public and private decision-making in support of rural and community development.

Wisconsin state priorities

USDA requests that states draw on stakeholder input to help direct use of capacity funding. The following is a compilation of current needs and interests within the state. (Note: Research proposals from all topic areas will be considered, and ranked according to the criteria provided in this call for proposals. The following list is not exhaustive.) Ideally, proposals should address one of the priorities for Wisconsin in addition to one of the Eight National Priority areas.

1. Mechanisms of pest and pathogen resistance and safe and effective control, with minimum effects on environmental quality and human health.
2. Effects of change in global climate, population pressures, or public policy on agricultural production, environmental resources, ecosystem management, and future land uses.

3. Identification of socioeconomic or other forces that shape the viability of Wisconsin industries and employment including agriculture, bio-based industry, forestry, wildlife management, recreation, and other land uses.
4. Research on food safety, nutritional health, environmental protection, and biotechnology and on providing information on dietary choices, lifestyle and community decisions.
5. Sustainable agricultural and forestry production and processing systems that provides improved food safety and security, environmental protection, economically viable communities, protection of public goods, and human well-being. This need requires an understanding of basic life processes and model plant/animal systems in order to manage biotic systems for human use.
6. Research and development related to agricultural processes with the potential to enhance the productivity and quality of livestock and food and bio-fuel crops in a sustainable manner.

Proposal Review Process

The review process will occur during October and November 2015, with funding decisions to be announced in December 2015.

Research advisory committee

Proposals are evaluated by a 10-person faculty Research Advisory Committee (RAC), members of which are appointed by the CALS Associate Dean of the Agricultural Experiment Station. Each proposal is reviewed by two RAC members (designated primary and secondary reviewer) and by two ad hoc reviewers. When possible, ad hoc members are CALS faculty.

Instructions for reviewers

Reviewers are asked to critique and evaluate proposals in a constructive manner, identifying both strengths and weaknesses. Reviews should be concise and address each of the following:

- An evaluation of the scientific significance of the objectives and alignment of project goals and funding source (appropriateness of the research problem to the Congressional Acts, USDA's Eight National Priorities and USDA's Knowledge Areas). The criterion of appropriateness is equally important to scientific merit and PI record of achievement.
- A judgment of the potential for addressing Wisconsin problems.
- An evaluation of the research team's ability to accomplish the stated objectives, and the match between these objectives and available resources.

Timeline of review

- Copies of the proposal are sent to two members of the RAC and two ad hoc reviewers. Each will prepare a written review of the proposal, and rank it on a scale from excellent to unacceptable. The completed reviews are forwarded to the WAES office.
- Prior to a meeting of the RAC, the primary and secondary reviewer receive copies of all reviews to facilitate leading the discussion on their assigned proposals.
- At the panel meeting, the primary reviewer gives a brief description of the proposal, the principal investigator's background, and his or her assessment of the proposed research. The secondary reviewer will provide his/her evaluation and raise any points that may have been overlooked. In areas where the RAC has insufficient expertise in the proposed research, an ad hoc reviewer may be selected as a primary or secondary discussant. The primary reviewer provides remarks from ad hoc reviewers, and clarifies any confusing issues.
- After the RAC discusses a proposal, it is ranked for funding. This process provides for ranking

reconsideration as other proposals are reviewed and ranked. After ranking of all proposals, RAC members will review the compiled list to modify any inappropriate placements. The prioritized list is then submitted to the Associate Dean for Research. Approximately 50% of proposals are anticipated to receive funding approval.

- The primary reviewer for each proposal prepares a summary of all reviewer and RAC comments. Individual reviews and the summary will be forwarded to applicants.

Funding approvals

Awards require two approvals before funding will be released: the Wisconsin Agricultural Experiment Station (CALS) and USDA.

Funding for each year of a project is contingent on the Federal Budget Resolution.

Proposal Submission

Proposals must be submitted via WISPER. To be accepted, proposals must have all approvals (Chair/Administrator/Co-PIs) and include the full proposal with budget worksheets. The document type (WISPER) must be "Hatch" (This option must be selected for Hatch, Hatch Multistate and McIntire-Stennis proposals) and be routed to Casey Hillmer.

New faculty are encouraged to discuss research ideas with, and have proposals reviewed by, their mentor committees prior to submission.

Proposal format

A project worksheet can be found at: http://waes.cals.wisc.edu/application-process/budget-worksheet-guide-21/ for entry of items 1-4 below:

1. **Cover page and 200-word summary (Excel tab "cover page")**

   The proposal cover page must provide the following information: sponsor type, informative title, one or more USDA national priorities, names of the participating faculty, and a 200-word summary of the work undertaken. The project title and PI name will automatically carry forward onto templates for subsequent years.

2. **Reviewer names (Excel tab "reviewer names")**

   Provide names and contact information (department and email address) for at least three independent reviewers that are qualified to review this proposal. They should have no conflicts of interest with the proposal PIs. (For this proposal competition, a conflict of interest constitutes anyone with whom the applicant has collaborated or published research in the previous three year period.) You may also provide names of reviewers whom you would prefer not to review this proposal and indicate why.

3. **Budget worksheets (Excel tab "Year 1-4")**

   A budget worksheet must be completed for each year of funding requested and include:

   1. The RA stipend and fringe rates on the forms are automatically entered for all years. The fringe rates should remain at the current rate across all years. No tuition remission is allowed for these budgets.
   2. A budget description regarding the supplies and travel should be entered in the box entitled "details". If the total project costs exceed those allowable under the budget guidelines (see

table, page 7), explanation regarding the source of complementary funding must be included in these details.

Types of project support that may be requested

Graduate student training is central to the use of capacity funding in CALS; budgets should be developed accordingly. See the table below for budget guidelines.

A minimum of 5%, up to a maximum of 10%, of a faculty's effort/salary should be included in the proposal per year. Be aware that the effort you indicate within the proposal will be payrolled (salary) effort on the project. Note: there is not a faculty salary line on the budget worksheets; you need only list your percent of effort.

Hatch or McIntire-Stennis ***Individual*** *Proposal* ***(1-4 years of funding)***		*Hatch or McIntire-Stennis* ***Multidisciplinary*** *Proposal with One RA requested* ***(1-4 years of funding)***		*Hatch or McIntire-Stennis* ***Multidisciplinary*** *Proposal with Two RAs requested* ***(1-2 years of funding)****	
One RA	$21,649	*One RA*	$21,649	*Two RAs*	$43,297
Faculty Salary for PI	Varies – must equate to the percentage of effort committed to each year of the proposal	*Faculty Salary for PI*	Varies – must equate to the percentage of effort committed to each year of the proposal	*Faculty Salary for PI*	Varies – must equate to the percentage of effort committed to each year of the proposal
Fringe	Varies depending on faculty salary, student hourly, and LTE funding requests	*Fringe*	Varies depending on faculty salary, student hourly, and LTE funding requests	*Fringe*	Varies depending on faculty salary, student hourly, and LTE funding requests
Supplies and Other Expenses such as Student hourly, LTE, and Travel	Typically $4,000/yr Not to exceed $5,000/yr	*Supplies and Other Expenses such as Student hourly, LTE, and Travel*	Typically $10,000/yr Not to exceed $15,000/yr	*Supplies and Other Expenses such as Student hourly, LTE, and Travel*	Typically $5,000/yr Not to exceed $7,500/yr
Additional Notes:					
If total project costs exceed those allowable under the guidelines above, explanation regarding the source of complementary funding must be included within the excel budget description details box. * Multidisciplinary proposals requesting two RAs are restricted to only two years of funding.					

4. **Research timeline (Excel tab "project timeline")**
The project worksheets include a separate page displaying a timetable. Use this template to show the anticipated timeline for the major activities of the project.

Previous Results
The PI should provide a clear statement of the results of his/her current or most recent Hatch or McStennis support and include information on how that support has benefited his/her overall research program. Projects with an applied emphasis should provide evidence of current or future impacts on society. An additional page can be used for each co-PI, if he/she has had recent Hatch or McStennis support.

Project narrative
Note: Project narratives should be prepared in a 12-point font, standard 1 inch margins, and not exceed 8 pages, exclusive of references.

1. **Introduction**
   Briefly introduce the subject of the research, placing it into disciplinary context. Provide a clear, concise purpose statement of the proposed research program. *For resubmitted proposals, indicate how previous reviewer comments were addressed in developing the revised proposal.*

2. **Background and justification**
   Provide sufficient literature review to explain the proposed research (what is known; what is not known) and why it is relevant and important to U.S. and Wisconsin agriculture and/or forestry. Specify the fit of the proposed work to one or more of USDA's formal Knowledge Areas. (The Knowledge Areas are described in the Manual of Classification for Agricultural and Forestry Research, Education, and Extension (Revision VIII): http://cris.nifa.usda.gov/manual.html)
   The PIs bear the responsibility for convincing reviewers that their project should be funded relevant to the specified Knowledge Area. Explain how the research will advance scientific knowledge and public welfare.

3. **Objectives/hypotheses**
   Provide clear, complete, and logically organized statements of the specific objectives to be pursued, or hypotheses to be tested.

4. **Experimental approach**
   Describe the working plans and methods to be used in pursuing each of the stated objectives. Methods should correspond to specific objectives and follow the same order. Provide clear experimental designs and appropriate statistical analyses for data to be collected. Location of the work and the facilities and equipment required should be indicated. Methods to avoid obvious pitfalls should also be noted. An explanation should be provided detailing how the appropriate audience will be informed of results, and, whether that audience is other scholars, extension agents, farmers, etc.

5. **Management plan**
   For proposals with multiple investigators, include a plan for research coordination and a detailed allocation of project activities and budget items among the investigators.

6. **References**
   Provide a complete citation for each of the references cited in the proposal.

Curriculum Vitae

A two-page CV for each investigator, focusing on employment history, professional training, honors, awards, and key publications, should be provided.

Current and Pending Funding

The principal investigator and all co-PIs should provide a summary of other current or pending funding. The summary should include PI(s), project title, funding source, dates of funding period, and amount of award. Where there is any conceivable overlap between these projects and the current proposal, the nature of that overlap should be explained here.

Compliance

Indicate whether the proposed work will be covered by an approved protocol (e.g., animal use).

Policies and Procedures

Hatch and McIntire-Stennis (capacity) funded projects are subject to the provisions of the Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards. In addition, capacity funding must be spent in accordance with the rules and regulations set forth by the University of Wisconsin, by the State of Wisconsin and Wisconsin Agricultural Experiment Station. See Appendix C for the Wisconsin Agricultural Experiment Station policies.

Appendix A-Congressional Acts

Hatch Act

Act of March 2, 1887, Ch.314, 24 Stat. 440 7 U.S.C. 361a et seq.
As amended August 11, 1955, ch. 790, 68 Stat. 671
Excerpt from Section 2

"… It shall be the object and duty of the State agricultural experiment stations through the expenditure of the appropriations hereinafter authorized to conduct original and other researches, investigations, and experiments bearing directly on and contributing to the establishment and maintenance of a permanent and effective agricultural industry of the United States, including researches basic to the problems of agriculture in its broadest aspects, and such investigations as have for their purpose the development and improvement of the rural home and rural life and the maximum contribution by agriculture to the welfare of the consumer, as may be deemed advisable, having due regard to the varying conditions and needs of the respective States."

McIntire-Stennis Act

Act of October 10, 1962, Public Law 87-788, 76 Stat. 806, 16 U.S.C. 582a, et seq.
Excerpt from Section 7

" The term "forestry research" as used in this Act shall include investigations relating to " (1) Reforestation and management of land for the production of crops of timber and other related products of the forest; (2) management of forest and related watershed lands to improve conditions of waterflow and to protect resources against floods and erosion; (3) management of forest and related rangeland for production of forage for domestic livestock and game and improvement of food and habitat for wildlife; (4) management of forest lands for outdoor recreation; (5) protection of forest land and resources against fire, insects, diseases, and other destructive agents; (6) utilization of wood and other forest products; (7) development of sound policies for the management of forest lands and the harvesting and marketing of forest products; and (8) such other studies as may be necessary to obtain the fullest and most effective use of forest resources."

Appendix B-Current Multistate Projects

Please see the NIMSS website: http://www.nimss.umd.edu/ for current projects, as projects may have been renewed after the Call for Proposals was released.

NC007	Conservation, Management, Enhancement and Utilization of Plant Genetic Resources	09/30/2017	Active
NC140	Improving Economic and Environmental Sustainability in Tree-Fruit Production Through Changes in Rootstock Use	09/30/2017	Active
NC170	Personal Protective Technologies for Current and Emerging Occupational and Environmental Hazards	09/30/2017	Active
NC205	Ecology and Management of European Corn Borer and Other Lepidopteran Pests of Corn	09/30/2015	Active
NC213	Marketing and Delivery of Quality Grains and BioProcess Co-Products	09/30/2018	Active
NC229	Detection and Control of Porcine Reproduction and Respiratory Syndrome Virus and Emerging Viral Diseases of Swine	09/30/2019	Active
NC246	Ecology and Management of Arthropods in Corn	09/30/2020	Active
NC507	Monarch Butterfly Conservation in the Midwest	04/03/2017	Active
NC1023	Engineering for Food Safety and Quality	09/30/2020	Active
NC1029	Applied Animal Behavior and Welfare	09/30/2016	Active
NC1030	Family Firms and Policy in Times of Disruption	09/30/2016	Active
NC1034	Impact Analyses and Decision Strategies for Agricultural Research	09/30/2016	Active
NC1100	Enhancing Rural Development Technology Assessment and Adoption Through Land Grant Partnerships	9/30/2015	Active
NC1171	Interactions of Individual, Family, Community, and Policy Contexts on the Mental and Physical Health of Diverse Rural Low-Income Families	09/30/2019	Active
NC1173	Sustainable Solutions of Problems Affecting Bee Health	09/30/2019	Active
NC1177	Agricultural and Rural Finance Markets in Transition	09/30/2019	Active
NC1178	Impacts of Crop Residue Removal for Biofuel on Soils	09/30/2019	Active

NC1179	Food, Feed, Fuel and Fiber: Security Under a Changing Climate	09/30/2019	Active
NC1182	Management and Environmental Factors Affecting Nitrogen Cycling and Use Efficiency in Forage-Based Livestock Production Systems	09/30/2019	Active
NC1183	Mycotoxins: Biosecurity, Food Safety and Biofuels Byproducts (NC129, NC1025)	09/30/2015	Active(has renewal project)
NC1184	Molecular Mechanisms Regulating Skeletal Muscle Growth and Differentiation	09/30/2015	Active
NC1186	Water Management and Quality for Ornamental Crop Production and Health	09/30/2015	Active
NC1187	The Chemical and Physical Nature of Particulate Matter Affecting Air, Water and Soil Quality. (NCR174)	09/30/2015	Active(has renewal project)
NC1189	Understanding the Ecological and Social Constraints to Achieving Sustainable Fisheries Resource Policy and Management	09/30/2016	Active
NC1190	Catalysts for Water Resources Protection and Restoration: Applied Social Science Research	09/30/2016	Active
NC1191	Weeds as Phytometers in a Changing Environment	09/30/2016	Active
NC1192	An integrated approach to control of bovine respiratory diseases (NC-1027)	09/30/2016	Active
NC1193	Assessing and addressing individual and environmental factors that influence eating behavior of young adults	09/30/2016	Active
NC1194	Nanotechnology and Biosensors	09/30/2016	Active
NC1195	Enhancing nitrogen utilization in corn based cropping systems to increase yield, improve profitability and minimize environmental impacts	09/30/2016	Active
NC1196	Food systems, health, and well-being: understanding complex relationships and dynamics of change	09/30/2016	Active
NC1197	Practical Management of Nematodes on Corn, Soybeans and Other Crops of Regional Importance	09/30/2016	Active
NC1198	Renewing an Agriculture of the Middle: Value Chain Design, Policy Approaches, Environmental and Social Impacts	09/30/2017	Active

NC1199	N-3 polyunsaturated fatty acids and human health and disease	09/30/2017	Active
NC1200	Regulation of Photosynthetic Processes	09/30/2017	Active
NC1201	Methods to Increase Reproductive Efficiency in Cattle (NC1038)	09/30/2017	Active
NC1202	Enteric Diseases of Food Animals: Enhanced Prevention, Control and Food Safety	09/30/2017	Active
NC2040	Metabolic Relationships in Supply of Nutrients for Lactating Cows	09/30/2018	Active
NC2042	Management Systems to Improve the Economic and Environmental Sustainability of Dairy Enterprises	09/30/2018	Active
NE009	Conservation and Utilization of Plant Genetic Resources	09/30/2018	Active
NE1020	Multi-state Evaluation of Winegrape Cultivars and Clones	09/30/2017	Active
NE1040	Plant-Parasitic Nematode Management as a Component of Sustainable Soil Health Programs in Horticultural and Field Crop Production Systems	09/30/2016	Active
NE1044	Whole Farm Dairy and Beef Systems: Gaseous Emissions, P Management, Organic Production, and Pasture Based Production	10/01/2015	Active
NE1045	Design, Assessment, and Management of Onsite Wastewater Treatment Systems: Addressing the Challenges of Climate Change	09/30/2015	Active (has renewal project)
NE1046	Management of Annual Bluegrass on Golf Courses: Improved Practices for Maintenance, Pest Control, and Viable Techniques for Transition to More Desirable Grasses	09/30/2016	Active
NE1047	Ecological Bases for Weed Management in Sustainable Cropping Systems	09/30/2016	Active
NE1048	Mastitis Resistance to Enhance Dairy Food Safety	09/30/2017	Active
NE1049	Community Health and Resilience	09/30/2017	Active
NE1201	Mycobacterial Diseases of Animals	09/30/2017	Active
NE1227	Ovarian Influences on Reproductive Success in Ruminants	09/30/2017	Active
NE1231	Collaborative Potato Breeding and Variety Development Activities to Enhance Farm	09/30/2017	Active

	Sustainability in the Eastern US		
NE1441	Environmental Impacts of Equine Operations	09/30/2019	Active
NE1442	Poultry Production Systems and Well-being: Sustainability for Tomorrow	09/30/2019	Active
NE1443	Biology, Ecology and Management of Emerging Disease Vectors	09/30/2019	Active
NE1962	Outdoor Recreation, Parks and Other Green Environments: Understanding Human and Community Benefits and Mechanisms	09/30/2017	Active
NRSP004	Enabling Pesticide Registrations for Specialty Crops and Minor Uses	09/30/2015	Active (has renewal project)
NRSP006	US Potato Genebank: Acquisition, Classification, Preservation, Evaluation and Distribution of Potato (Solanum) Germplasm	09/30/2015	Active(has renewal project)
S294	Quality and Safety of Fresh-Cut Vegetables and Fruits	09/30/2016	Active
S1048	Assessment of the Carbon Sequestration Potential of Common Agricultural Systems on Benchmark Soils Across the Southern Region Climate Gradient	09/30/2016	Active
S1051	Sustainable Practices, Economic Contributions, Consumer Behavior, and Labor Management in the U.S. Environmental Horticulture Industry	09/30/2015	Active (has renewal project)
S1052	The Working Group on Improving Microbial Control of Arthropod Pests	09/30/2017	Active
S1053	Ecological and Genetic Diversity of Soilborne Pathogens and Indigenous Microflora	09/30/2017	Active
S1054	Biobased Fibrous Materials and Cleaner Technologies for a Sustainable and Environmentally Responsible Textile Industry	09/30/2018	Active
S1055	Biology, Impact, and Management of Soybean Insect Pests in Soybean Production Systems	09/30/2018	Active
W2005	Parenting, Energy Dynamics, and Lifestyle Determinants of Childhood Obesity: New Directions in Prevention	09/30/2017	Active

W2008	Biology and Management of Iris Yellow Spot Virus, other Diseases, and Thrips in Onions	09/30/2017	Active
W2045	Agrochemical Impacts on Human and Environmental Health: Mechanisms and Mitigation	09/30/2015	Active
W2112	Reproductive Performance in Domestic Ruminants	09/30/2016	Active
W2150	Breeding Common Bean (Phaseolus vulgaris L.) for Resistance to Abiotic and Biotic Stresses, Sustainable Production, and Enhanced Nutritional Value	09/30/2015	Active (has renewal project)
W2173	Impacts of Stress Factors on Performance, Health, and Well-Being of Farm Animals	09/30/2016	Active
W2191	Elder Financial Exploitation: Impact on Families	09/30/2017	Active
W2192	Improving Safety and Health of Wildland Firefighters through Personal Protective Clothing	09/30/2017	Active
W3001	The Great Recession, Its Aftermath, and Patterns of Rural and Small Town Demographic Change	09/30/2017	Active
W3122	Beneficial and Adverse Effects of Natural Chemicals on Human Health and Food Safety	09/30/2017	Active
W3133	Benefits and Costs of Natural Resources Policies Affecting Ecosystem Services on Public and Private Lands	09/30/2017	Active
W3177	Enhancing the Competitiveness and Value of U.S. Beef	09/30/2017	Active

Appendix C- WAES Policies

Available online at: http://waes.cals.wisc.edu/award-management/policies/

ITEM	POLICY	COMMENT
Appointments	• Project Assistants, Post-Docs, and Technicians are ***Typically Unallowable*** on Formula grants. • Faculty or Academic Staff appointments are ***Unallowable*** on Animal Health grants.	*Individuals paid on a Formula Grant project, MUST be working on that project. Justifications may be requested at any time.*
Binding (Thesis)	• ***Unallowable***	
Books	• ***Allowable*** only if directly related to research • ***Prior Approval Needed*** from WAES	*Prior approval and strong justification required. Submit requests, with justification, to waes@cals.wisc.edu and include identification of matching funds (amount and Fund-Project number) for the purchase.*
Capital Equipment $5,000 and over	• ***Prior Approval Needed*** from WAES • Equipment purchases in the last year of a project are ***Allowable***, but require strong justification • See RSP definition of "equipment".	*Submit requests to waes@cals.wisc.edu. Include a rebudget request, justification, and identification of matching funds (amount and fund-account number) for the purchase.*
Carryover of Unobligated Funds	• ***Unallowable*** for Formula Grant awards.	
Cell Phones or Related Charges	• ***Unallowable***	*If items are **crucial** in order to carry out the project, an exception may be made. Submit a request, with strong*
Change in Scope/Objectives	• ***Prior Approval Needed*** from USDA	*Rrequest must be initiated by PI, signed by PI and department chair, and submitted to waes@cals.wisc.edu.*
Change in PI	• ***Prior Approval Needed*** from USDA	*Request must be initiated by PI, signed by PI and department chair, and submitted to waes@cals.wisc.edu.*
Computer Access Charges	• ***Typically Unallowable***	*Exceptions require prior approval and strong justification. Submit requests, with justification, to waes@cals.wisc.edu.*

Computer/Printer Purchases (Including iPads/Tablets) **Hardware Only**	• One computer and printer over the life of a project are ***Allowable***, if required to conduct the research. • Formula funds can be used to fund up to 50% of the total purchase price. • Computer/printer purchases are ***Unallowable*** in the last year of a project.	***All requests to purchase computers/printers using Formula funds require prior approval from WAES.*** *Submit requests to waes@cals.wisc.edu. Requests should include justification of need, request to rebudget (if required), and identification of matching funds (amount and Fund-Project number) for the purchase. Upon approval, a requisition can be processed.*
Computer/Printer Accessory Purchases	• ***Unallowable***	*If items are **crucial** in order to carry out the project, an exception may be made. Submit a request, with strong justification, to waes@cals.wisc.edu.* *Items considered accessories include, but are not limited to: software, memory (RAM), hard drives, DVD burners, and projectors.* *Projector requests must provide identification of matching funds (amount and Fund-Project number) for the purchase.*
Copy/Printing Costs	• Up to $400/year is ***Allowable***, for research-related copy costs only (print cards, copy chargebacks, etc).	*If there is need to exceed the maximum, prior approval is required. Submit requests, with justification, to waes@cals.wisc.edu prior to exceeding the maximum.*
Equipment under $5,000	• ***Prior Approval Needed*** from WAES • Equipment purchases in the last year of a project are ***Unallowable***. • See RSP definition of "equipment"	*Submit requests, along with justification, to waes@cals.wisc.edu and include identification of matching funds (amount and Fund-Project number) for the purchase.*
Human Subject Incentive Payments	• ***Allowable*** with justification • Gifts are ***Unallowable***	*Submit requests, along with justification, to waes@cals.wisc.edu*
Pre-Spending	• ***Unallowable***	*Occasionally, a PI may be permitted to expend funds prior to official USDA CRIS proposal approval. If the proposal is not approved by USDA CRIS, expenditures incurred become the responsibility of the PI and must to be transferred to an unrestricted funding source immediately.*

Publication/Distribution Costs	• ***Allowable*** if directly related to the project	*Expenses associated with editorial assistance are considered legitimate publication costs.* *All publications must include acknowledgement of USDA support. See Formula Grants FAQ for required acknowledgement statement.*
Purchasing Card/Direct Charges	• ***Allowable*** with detailed documentation, including date(s) of service, item description, and cost.	*Submit allowable charges to your departmental contact.*
Rebudgets	• ***Prior Approval Needed*** from WAES for Research Assistant rebudgets. • Supplies, travel and LTE can be rebudgeted amongst each category • Fringe and Capital Exercise amounts cannot be rebudgeted to other categories	During the lifetime of the award, up to 25% of RA allocation and fringe can be rebudgeted to other categories (other appt types, supplies, travel and LTE) See WAES Receipt and Rebudget Submission Procedures for additional rebudget policy information. Submit requests to Casey Hillmer at: casey.hillmer@wisc.edu.
Research Assistant Appointments	• Up to one 50% Research Assistant per month ***Allowable*** • ***Prior Approval Needed*** for deviations.	*Exceptions require prior approval and strong justification. Submit exception requests, with justification from the principal investigator, to casey.hillmer@wisc.edu. Expenditures are not allowed until a request has been approved.*
Research Assistant Appointment Rebudgets	• **Prior Approval Needed from WAES** for Research Assistant rebudgets.	During the lifetime of the award, up to 25% of RA allocation and fringe can be rebudgeted to other categories (other appt types, supplies, travel and LTE) See WAES Receipt and Rebudget Submission Procedures for additional rebudget policy information. Submit requests to Casey Hillmer at: casey.hillmer@wisc.edu.

Research Related Supplies	• General office supplies are ***Unallowable*** • Supplies related to direct research costs approved in the original proposal are ***Allowable***	*If there a need to exceed the maximum, prior approval is required.* *Submit requests, with justification, to waes@cals.wisc.edu prior to exceeding the maximum.*
Subscriptions/Memberships	• ***Typically Unallowable*** • Subscriptions directly related to the research that provide datasets available only to subscribers ***may be Allowable***. • Professional memberships are ***Unallowable*** unless required in order to purchase a subscription meeting the above criteria.	*Submit requests, with justification, to waes@cals.wisc.edu*
Telephone or Communications Charges	• ONLY telephone charges related to the Formula Grant are ***Allowable***. • All other types of telephone and line rental costs are ***Unallowable*** and should be treated as indirect costs (F&A), per OMB Circular A-21 guideline F.6.b.(3) and J.18.a (4).	*Allowable telephone charges are processed via non-salary payment transfers.* *Submit a non-salary transfer form and a copy of the phone bill with calls related to the project highlighted to your departmental contact.*
Travel		
Data Collection	• ***Allowable*** for data collection in and out of state	*Justification of travel is required when submitting documentation/receipts for review and approval.*
Conference Travel	• ***Allowable*** for PI and RA only if presenting research results are directly related to a Capacity Grant	Conference materials should acknowledge NIFA support.
Multi-state Travel	• ***Allowable*** for 2 appointed WI representatives attending annual Multi-state meeting.	*Substituting a WI representative for Multi-state travel requires prior approval from WAES. Submit requests to casey.hillmer@wisc.edu*
Tuition Remission	• ***Unallowable***	
Vehicle Maintenance and Repair Costs	• ***Typically Unallowable***	*Exceptions require prior approval and strong justification. Submit requests, with justification, to waes@cals.wisc.edu.*