

**Agriculture
July 2010
Proposal Submissions**

Principal Investigator	Sponsor	Title	Department	Total Amount Requested
Agouridis, Carmen	KY Department of Fish and Wildlife	Stream Restoration in Guy Cove II	Biosystems & Ag Eng	41916
Amaral-Phillips, Donna	Purdue University	Enhancements of Feed Efficiency to Reduce Nutrient Excretion and Improve Profitability of Dairy Heifers	Animal and Food Sciences	256082
Amaral-Phillips, Donna	Ohio State University	Sustainable gains in Feed Efficiency on Dairy Farms Using Genomics	Animal and Food Sciences	256082
Amaral-Phillips, Donna	University of Illinois	A System Biology Approach to Improve Efficiency of Nutrient Use of Dairy Cattle From Dry-off Through Lactation.	Animal and Food Sciences	300570
Archbold, Douglas	Four Tigers LLC	STTR: Enhanced Pharmaceutical and Nutaceutical Value of Blackberries Through Bioengineering	Horticulture	0
Balasuriya, Udeni	Morris Animal Foundation	Identification of Genetic Factors Responsible for Establishment of EAV Carrier State in Stallions	Veterinary Science	10800
Barton, Christopher	Forest Service	Assessment of Structure, Function and Stability in a Gradient of disturbed SRS Streams-Phase III	Forestry	227576
Bewley, Jeffrey	Purdue University	Enhancement of Feed Efficiency to Reduce Nutrient Excretion and Improve Profitability of Dairy Heifers by Increased Understanding of Feed Management and Genetic Interactions.	Animal and Food Sciences	0
Bewley, Jeffrey	Cornell University	MASCAP-The National Udder Health Program	Animal and Food Sciences	0
Brashear, Robert	KY Department of Military Affairs	UK Robinson Forest Camp Mudslide Project	Ctrl KY Experiment Station	196000
Bruening, William	KY Small Grain Growers Association	Performance of Small Grain Varieties in Kentucky	Plant & Soil Sciences	15150
Chappell, Joseph		Obtaining a transcriptome for developing Acacia victoriae seed pods	Plant & Soil Sciences	30252
Chappell, Joseph	National Institute of General Medical Sciences	ARRA: Advancing Drug Development in Medicinal Plants using Transcriptomics and Metabolomics	Plant & Soil Sciences	6000000
Davis, Alison	National Institute of Food and Agriculture	Kentucky Tennessee Institute for Sustainable Development Conference	Agr Economics	19868
Dillon, Carl	National Institute of Food and Agriculture	Whole farm economic analysis on the influence of precision agriculture and environmental policies on profitability and carbon footprinting	Agr Economics	285713

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Fehr, Robert	KY Cabinet for Health and Family Services	Radon Activities	Biosystems & Ag Eng	22681
Fei, Songlin	National Science Foundation	Change of Species Composition and its Impact on Forest Biomass in the Eastern U.S.	Forestry	196470
Fulcher, Amy	University of Florida	Influence of Propagation Type and Nitrogen on PGR Efficacy	Horticulture	4500
Goodin, Michael	National Science Foundation	Host factor interaction and localization maps for plant viruses	Plant Pathology	0
Gumbert, Amanda	KY Energy and Environment Cabinet	University of Kentucky Cooperative Extension Service Liaison	Agr Programs	54000
Hains, Bryan	Purdue University	Use of Myostatin-Based Technologies to Alter Growth Efficiency, Minimize Environmental Footprint and Improve Agricultural Sustainability in Swine	Community & Leadership Deve	0
Hanley, Carol	National Institute of Health	Community-Based Health Research and Education for Teachers & Students	Center for the Environment	1320034
Harmon, David	Elanco Animal Health	Impact of Differing Forms of Monensin on Ruminant Volatile Fatty Acid Profiles in Steers Fed a Medium Concentrate Diet	Animal and Food Sciences	24611
Harwood, James	KY Small Grain Growers Association	Who's eating who in Kentucky wheat? Integrating predators into pest management	Entomology	17297
Hennig, Bernhard	Miami University	Fighting Foods: Battling Chemical Toxicity with Good Nutrition	Animal and Food Sciences	176354
Horohov, David	Morris Animal Foundation	Microarray & qPCR Determination of Equine Enterocyte Gene Regulation by Lawsonia Intracellularis	Veterinary Science	10800
Hu, Wuyang	Ohio State University	Integrating E-Commerce to Enhance Small and Medium-Sized Farm Profitability: Infrastructure and Practice	Agr Economics	153245
Hunt, Arthur	National Institute of Food and Agriculture	Posttranscriptional control of alfalfa root growth and biomass accumulation	Plant & Soil Sciences	499961
Hunt, Arthur	National Science Foundation	Alternative polyadenylation and non-stop mRNAs in Arabidopsis	Plant & Soil Sciences	640544
Hustedde, Ronald	Appalachian Regional Commission	E-Discovery Challenge	Community & Leadership Deve	275000
Kabengi, Nadine	University of Connecticut	Cr(VI) Retention at the Mineral-Water Interface: Coming Up with a Scalable Surface Complexation Model for Iron Oxides	Plant & Soil Sciences	239781

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Kachroo, Pradeep	National Science Foundation	Characterizing the Roles of Blue-Light Photoreceptors in the Activation of Plant Defense.	Plant Pathology	0
Kachroo, Pradeep	National Science Foundation		Plant Pathology	0
Lacki, Michael	Forest Service	Fire Management and Habitat Quality for Endangered Bats in Mammoth Cave National Park, JFSP	Forestry	262759
Lhotka, John	KY Energy and Environment Cabinet	Cross-walk and Develop GIS Mapping Applications and Accomplishment Monitoring Geospatial Database	Forestry	6000
Martin, James	KY Small Grain Growers Association	Evaluate the effect of seeding rate of wheat and preharvest applications on managing giant ragweed and marestail in wheat	Plant & Soil Sciences	12000
Maynard, Leigh	Economic Research Service	Alternative Dairy Policy Programs: Analysis of Risk Management and Margin Insurance	Agr Economics	25000
McCulley, Rebecca	National Science Foundation	CAREER: Enhancing Agricultural Science and Climate Change Literacy by Integrating Agroecological Teaching, Research, and Community Outreach	Plant & Soil Sciences	919395
McNeill, Samuel	Rural Development	Energy Audits for Grain and Poultry Producers in Kentucky	Biosystems & Ag Eng	51000
Meyer, Alphonse	University of Georgia	SARE PDP 2010	Agr Economics	0
Mueller, Thomas	South Dakota State University	Adaptive Landscape Management Strategies to Optimize Resilience in Maize and Wheat Production Systems Across a Regional Climate Gradient	RCTF-1-Plant Sciences-Agron	2588409
Murdock, Lloyd	KY Small Grain Growers Association		Plant & Soil Sciences	0
Nagy, Peter	National Science Foundation	Key Role of the Multifunctional Translation Elongation Factor in Virus Replication.	RCTF-1-Plant Sciences-PlantPa	0
Nokes, Sue	Department of Energy	On-Farm Biomass Processing: Towards an Integrated High Solids Transporting/Storing/Processing System	Biosystems & Ag Eng	6952435
Pescatore, Anthony	Department of Agriculture	Profitable and Sustainable Pasture Poultry Production on Small and Medium-sized Farms.	Animal and Food Sciences	0
Phillips, Timothy	Consortium for Plant Biotechnology Research Inc	Development of Chia, <i>Salvia hispanica</i> L., as a sustainable oil source for renewable chemical applications	Plant & Soil Sciences	104362
Pushkarskaya, Helen	National Institute of Food and Agriculture	Revisiting the Impact of the Tobacco Buyout on Tobacco Farmers and Rural Economies	Agr Economics	499979

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Schwab, Gregory	KY Small Grain Growers Association		Plant & Soil Sciences	0
Seebold, Kenneth	University of California	Reducing Losses to Potato and Tomato Late Blight by Enhanced Monitoring of Pathogen Populations and Improved Resistant Plants, Education and Extension.	Plant Pathology	0
Seebold, Kenneth	University of Florida	IR-4 2010	Plant Pathology	7000
Sharkey, Michael	National Science Foundation	MAST: Malaysia Arthropod Survey Team	Entomology	1232308
Smith, S. Ray	KY Forage & Grasslands Council	Farm Scale Biomass Production for Electricity Generation and CO2 Mitigation	Plant & Soil Sciences	113780
Squires, Edward	Colorado State University	Fertility of Mares Inseminated with Frozen/Thawed Semen Centrifuged Through a Smingle layer Density Gradient	Veterinary Science	36225
Taraba, Joseph	National Institute of Food and Agriculture	Effect of Moisture Content and Bedding Material on N2O and CH4 Emissions in Composting Broiler Litter/Soil Incorporation Waste Systems	Biosystems & Ag Eng	887512
Thom, William	Food and Drug Administration	Enhancing and Building the Capability of Feed Safety in Kentucky	Regulatory Services	493120
Timoney, John	Morris Animal Foundation	Efficacy of Se 18.9-SeM37-346 Fushion as an Intranasal Strangels Vaccine	Veterinary Science	45000
Urschel, Kristine	National Institute of Food and Agriculture	Optimizing the Efficient Use of Dietary Protein in Horses Through Decreased Quantity and Improved Quality: Opportunities to Impact Metabolism, Nitrogen Excretion, Growth and Athletic Performance.	Animal and Food Sciences	4461743
Urschel, Kristine	Waltham Centre for Pet Nutrition	The effects of Creep Feeding pre-Weaning Foals on Whole Body Protein Synthesis Determined Using Istopes Infusion and Stochastic Analysis	Animal and Food Sciences	19915
Van Sanford, David	KY Small Grain Growers Association	Breeding and release of improved wheat varieties with high yields and test weights, enhanced scab resistance and overall disease resistance, increased lodging resistance and increased profitability	Plant & Soil Sciences	47650
Vincelli, Paul	North Carolina State University	Pest Information Platform for Extension, Education, and Engagement □ (PIPE 3)	Plant Pathology	20000
Webber, Kelly	Obesity Society	The Effect of Behavioral Weight Loss Program with Nutrisystem Meal Provision on Change in Weight, Fasting Blood Glucose, Total Cholesterol, and Blood Pressure Over 12 Weeks	Nutrition and Food Science	25000
Wendroth, Ole	KY Small Grain Growers Association	Farm Test of Crop Sensing for Site-Specific Nitrogen Fertilizer Application in Winter Wheat	Plant & Soil Sciences	6500
Williams, David	University of Nebraska	Controlling Poa annua at greens height with current application frequencies and rates of herbicides or growth regulators	Plant & Soil Sciences	8664

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Xiong, Youling	Alltech Biotechnology Inc	Student Sponsorship-Rebecca Delles	Animal and Food Sciences	34260
Zhu, Hongyan	National Science Foundation	Genetic Control of Pod Shattering in Soybeans	Plant & Soil Sciences	493318
Zhu, Hongyan	National Science Foundation	Elucidation of symbiosis signaling in rice and medicago	Plant & Soil Sciences	492853