

**Agriculture
May 2012
Proposal Submissions**

Principal Investigator	Department	Sponsor	Title	Total Amount Requested
Reed, Michael	International Programs	Foreign Agricultural Service	Borlaug Scientific Visitors from NorthAfrica	\$40,727
Reed, Michael	International Programs	Foreign Agricultural Service	Borlaug Scientific Visitors from Ghana on Food Safety	\$58,612
Reed, Michael	International Programs	Foreign Agricultural Service	Assessment of the Ministry of Agriculture's Extension Plan, Republic of Georgia	\$8,591
Hanley, Carol	Center for the Environment	National Institute of Food and Agriculture	Meeting Future US Agriculture Workforce Challenges through Climate Change Education and 21st Century Skill Development	\$149,929
Davis, Alison	Agr Economics	National Institute of Food and Agriculture	Ready Communities Pilot and Program Evaluation	\$57,295
Davis, Alison	Agr Economics	National Institute of Food and Agriculture	Towards a Sustainable Rural Healthcare Delivery System in Kentucky	\$187,650
Woods, Timothy	Agr Economics	Meat Hook LLC	Meat Hook Butcher Shop Market	\$39,679
Bailey, William	Plant & Soil Sciences	British American Tobacco	Effect of alternative fire-curing methods on sensory and leaf quality, TSNA, BaP, and other selected chemical constituents in traditionally grown fire-cured tobacco	\$36,824
Carter, Sara	Plant & Soil Sciences	Monsanto Co	DTS Soybean - Service Order No. 14	\$9,600
Carter, Sara	Plant & Soil Sciences	Bayer CropScience GmbH	Bayer Master Agreement-Field Trial	\$7,000
Hunt, Arthur	Plant & Soil Sciences	National Science Foundation	Alternative polyadenylation and non-stop mRNAs in Arabidopsis	\$518,303
Smith, Samuel	Plant & Soil Sciences	Ceres Inc	Seeded Switchgrass Yield Trial--Annex 1	\$55,000
Perry, Sharyn	RCTF-1-Plant Sciences-Agronomy	United Soybean Board	Enhancement of Soybean Somatic Embryo Development to Improve Regeneration and Transformation Efficiency	\$258,497
Perry, Sharyn	RCTF-1-Plant Sciences-Agronomy	National Science Foundation	Mechanisms of gene regulation by the plant MADS-domain transcription factor AGL15	\$705,492
Bewley, Jeffrey	Animal and Food Sciences	University of Tennessee	Southeast Quality Milk Initiative: Implementing Science-Based Recommendations to Control Mastitis & Improve Milk Quality in the Southeast	\$597,645
Bewley, Jeffrey	Animal and Food Sciences	Organic Valley Family of Farms	A Preliminary Assessment of the Potential for Compost Bedded Pack Barns in Sustainable Organic Dairy Farming Systems	\$4,909

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Lawrence, Laurie	Animal and Food Sciences	KY Horse Racing Commission	Dietary mitigation of antibiotic-induced changes in equine hindgut bacteria	\$86,471
Urschel, Kristine	Animal and Food Sciences	Alltech Biotechnology Inc	Analysis of digesta and feed for amino acid composition	\$1,500
Collins, Joseph	Entomology	Animal and Plant Health Inspection Service	Forest Pest Outreach	\$37,500
Harwood, James	Entomology	KY Department of Agriculture	Determining biological control solutions for challenging pests in cucurbit production systems: the timing of farm management practices	\$60,603
Haynes, Kenneth	Entomology	Valent BioSciences Corporation	Valent Bioscience VBC3 for bed bug control	\$10,467
Lensing, Janet	Entomology	Animal and Plant Health Inspection Service	Thousand Cankers Disease Survey	\$17,157
Lensing, Janet	Entomology	Animal and Plant Health Inspection Service	Phytophthora ramorum Survey	\$25,000
Lucas, Patricia	Entomology	KY Department of Agriculture	Utilizing Insect Traps and Day Degree Models for Codling Moth and Oriental Fruit Moth Control in Apples	\$54,121
Palli, Subba	Entomology	National Science Foundation	MECHANISM OF SEX DETERMINATION IN BETLES	\$585,768
Rieske-Kinney, Lynne	Entomology	Forest Service	Integrating biological control and chemical suppression to save our ash resources	\$150,000
Townsend, Lee	Entomology	KY Department of Agriculture	2013-14 UK Private Pesticide Applicator	\$55,000
Barton, Christopher	Forestry	American Rivers	Mower Tract Ecological Restoration	\$298,704
Cox, John	Forestry	KY Department of Fish and Wildlife	Population Growth and Expansion of the Black Bear in Eastern Kentucky	\$90,000
Cox, John	Forestry	KY Department of Fish and Wildlife	Resource Selection, Movement Patterns, Survival, and Cause-Specific Mortality of Adult Bull Elk in Kentucky	\$50,000
Coolong, Timothy	Horticulture	KY Department of Agriculture	Developing a strip tillage system for cucurbit production in Kentucky	\$38,200
Coolong, Timothy	Horticulture	University of Tennessee	Plant Improvement and Cropping Systems Strategies to Support Edamame in the Eastern U.S.	\$551,359

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Coolong, Timothy	Horticulture	University of Georgia	Endophytic bacteria isolation and identification from organic and conventional production systems	\$10,914
Downie, A. Bruce	Horticulture	National Science Foundation	Determination of LATE EMBRYOGENESIS ABUNDANT (LEA) protein-client protein networks.	\$498,748
Hessler, Alex	Horticulture	University of Georgia	Living mulches, conservation tillage, and scale-appropriate technology	\$10,124
Ingram, Dewayne	Horticulture	Horticultural Research Institute	Greenhouse gas emissions (carbon footprint) and associated costs of field-grown, deciduous shrub production system components and the subsequent impact in the landscape	\$15,000
Jacobsen, Krista	Horticulture	KY Department of Agriculture	Building technical support capacity for Kentucky's high tunnel specialty crop producers	\$50,791
Schnelle, Rebecca	Horticulture	Brigham Young University	Impact and social acceptance of selected sustainable practices in ornamental crop production systems	\$151,688
Wilson, Patsy	Horticulture	KY Department of Agriculture	Developing a low impact, cost-effective weed management strategy for Kentucky Vineyards	\$74,509
Wright, Shawn	Horticulture	KY Department of Agriculture	Ginseng Monitoring Grant	\$10,000
Goodin, Michael	Plant Pathology	Bill and Melinda Gates Foundation	Host factor-derived broad resistance to emerging viruses.	\$100,000
Goodin, Michael	Plant Pathology	National Institute of Allergy and Infectious Diseases	Systems Biology of Plant Viruses	\$2,534,869
Goodin, Michael	Plant Pathology	National Science Foundation	Matrix protein of Potato yellow dwarf virus: host factors and membrane dynamics	\$542,419
Kachroo, Aardra	Plant Pathology	United Soybean Board	Understanding Soybean Responses to Root-Knot and Reniform Nematodes	\$138,495
Kachroo, Aardra	Plant Pathology	United Soybean Board	Enhancing Soybean Seed Yield by Manipulating the Expression of Seed Size-Determining Genes	\$122,594
Kachroo, Aardra	Plant Pathology	United Soybean Board	Reducing Soybean Yield Loss by Enhancing Resistance to Phytophthora Rot	\$95,647
Kachroo, Pradeep	Plant Pathology	National Science Foundation	Genetic, molecular and biochemical characterization of a mobile inducer of plant systemic immunity	\$1,216,674
Epps, Rebekah	Community & Leadership Devel	KY Workforce Development Cabinet	Envirothon: Incorporating the Contest into your Curriculum	\$2,575

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Bailey, Ernest	Veterinary Science	KY Equine Drug Council	The influence of genetic deficits in aggrecan structure (cartilage) on race track breakdown	\$14,740
Ball, Barry	Veterinary Science	KY Equine Drug Council	Control of reproductive behavior in racing Thoroughbred fillies and mares with a third-generation GnRH antagonist (Acyline)	\$106,053
Ball, Barry	Veterinary Science	KY Equine Drug Council	Use of a third-generation GnRH antagonist (Acyline) to block reproductive behavior in racing Thoroughbred colts	\$107,104
Chambers, Thomas	Veterinary Science	KY Equine Drug Council	Influenza, secondary bacterial infection, and interleukin-23.	\$49,234
Horohov, David	Veterinary Science	KY Equine Drug Council	The effect of exercise on pro-inflammatory cytokine expression in the young racehorse and its impact on training-related injuries.	\$164,181
Timoney, John	Veterinary Science	KY Equine Drug Council	Chitosan nanoparticles as an antigen vehicle for intranasal vaccination against Streptococcus equi.	\$43,069
Troedsson, Mats	Veterinary Science	KY Equine Drug Council	The effect of fluoroquinolone treatment of foals on future racing performance	\$682,478
Murray, Deborah	Family & Consumer Sciences	Foundation for a Healthy KY	2012 Kentucky Health Literacy Summit: Building Your Health Literacy Toolkit	\$1,000
Stephenson, Laura	Family & Consumer Sciences	KY Department of Agriculture	Plate It Up Kentucky Proud Recipe Development for Consumers and Producers, with Family Meals Research Component	\$62,710
Vail, Ann	Family & Consumer Sciences	KY Cabinet for Health and Family Services	UK Supplemental Nutrition Assistance Program Education (SNAP Ed)	\$2,476,147
Vail, Ann	Family & Consumer Sciences	KY Cabinet for Health and Family Services	A Social Marketing Campaign to Increase Preparation of Home-Cooked Family Meals among Kentucky SNAP-Ed Audiences.	\$547,287
Husband, Andrea	Agr Programs	Purdue University	First steps, guidelines, and roles for extension and stakeholders during tornadoes	\$32,115
Husband, Andrea	Agr Programs	National Institute of Food and Agriculture	Strengthening community agrosecurity preparedness: Building National Networks and Partnerships	\$66,180
Husband, Andrea	Agr Programs	National Institute of Food and Agriculture	Enhancing risk communication skills of extension educators	\$54,642
Gustafson, Alison	Nutrition and Food Science	National Institute of Food and Agriculture	Adolescent and Parent Food Activity Patterns as Drivers of Food Choices and Behaviors	\$149,074
Mullins, Janet	Nutrition and Food Science	KY Department of Agriculture	Kentucky Proud Flavors and Sustainable Eating Campaign Development, Implementation and Evaluation	\$65,241

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Webber, Kelly	Nutrition and Food Science	Academy of Nutrition and Dietetics Foundation	Development of Realistic and Professional Counseling Simulations and Related Online Learning Modules	\$72,085
Zaitlin, David	Ky Tobacco Research & Dev Center	Bill and Melinda Gates Foundation	Host Factor-Derived Resistance to Emerging Plant Viruses	\$100,000