

**Agriculture
February 2008
Proposal Submissions**

Principal Investigator	Sponsor	Title	Department	Total Amount Requested
Allen, George	National Science Foundation	Comparative Genomics of Gamma-Herperviruses of Equids	Veterinary Science	\$0
Bertsch, Paul	Duke University	Center for the Environmental Implications of Nanomaterials (CEIN)	CES/Agronomy	\$0
Bruening, William	KY Soybean Promotion Board	Evaluation of Hulless Barley: Minimizing the Late-Planted Yield Penalty in Double-crop Soybeans	Plant & Soil Sciences	\$5,000
Carter, Craig	KY Department of Agriculture	Bovine Spongiform Encephalopathy Testing and Related Services	Livestock Diagnostic Disease Center	\$23,036
Chappell, Joseph	Green Wisdom In	Development of Sustainable Production Platforms for Renewable Petroleum Based Oils in Algae	Plant & Soil Sciences	\$0
Chappell, Joseph	Pennsylvania State University	Process Development for Jet Fuel (JP-8) Production from Alternative Algae Lipids / Processes for the Affordable Manufacture of Algal-Derived JP-8	Plant & Soil Sciences	\$0
Cushing, Tamara	Forest Service	Putting a Value on the Contribution of Forestry to Kentucky's Economy	Forestry	\$86,174
Cushing, Tamara	Forest Service	Competitive Advantage Strategies in Small Forest Products-Based Firms in Appalachia: A Study for Region-Wide Application	Forestry	\$83,546
Davis, Alison	Cooperative State Research Education and Extension	Growing Local Economies: New Tools for Community Economic Development	Agricultural Economics	\$499,932
DeBolt, Seth	Cooperative State Research Education and Extension	Characterizing Biochemical Interactions Between Cell Wall Polymers And The Secretome By Targeted Phage Display	Horticulture	\$0
Durham, Richard	University of Nebraska	eXtension Consumer Horticulture Certified Cop Leadership Funds 2008	Horticulture	\$0
Farman, Mark	National Science Foundation	Fungal Telomere Sequencing	Plant Pathology	\$0
Farris, Marcia	KY Governors Office for Local Development	Kentucky Children's Garden	Arboretum	\$75,000
Gaetke, Lisa	National Institute of Environmental Health Sciences	A Participatory Approach to Nutrition and Chronic Diseases Training for Rural Health Care Professionals	Nutrition and Food Science	\$50,000
Ghabrial, Said	KY Soybean Promotion Board	Epidemiology of Bean Pod Mottle Virus and Resistance to Major Pathogens of Soybean	Plant Pathology	\$15,000

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Goodwin, Kandris	National Fish and Wildlife Foundation	Mill Creek Elementary Stream and Wetland Restoration Project	Tracy Farmer Center for the Environment	\$20,000
Grove, John	KY Soybean Promotion Board	Soybean Yield Response to Soil P and K Availability: Optimizing Fertilization Expenses	Plant & Soil Sciences	\$7,500
Grove, John	KY Soybean Promotion Board	Sensing Soybean Canopy Development and Crop Stress: Understanding the Relationship to Grain Yield	Plant & Soil Sciences	\$21,000
Halich, Gregory	Texas A&M University	Creating Successful Forage-Finished Beef Enterprises in the Upper South	Agricultural Economics	\$0
Harwood, James	University of California	Invasive Slugs in the United States: Development of a Biological Control Program	Entomology	\$204,574
Herbek, James	KY Soybean Promotion Board	Optimum Planting Date for Soybean	Plant & Soil Sciences	\$2,000
Hershman, Donald	KY Soybean Promotion Board	Impact of Newly-Recognized HG-Type 2 Populations of Soybean Cyst Nematode (SCN and Enhanced Grower Awareness of new SCN Challenges for Kentucky	Plant Pathology	\$9,100
Hershman, Donald	North Carolina State University	ipmPIPE 2008	Plant Pathology	\$0
Higgins, Stephen	KY Natural Resources Environmental Protection Cabinet	Kentucky Horse Park Draft Horse Barn Floor Renovation	Biosystems & Ag Eng	\$23,460
Hildebrand, David	KY Soybean Promotion Board	Production of Higher Oil Soybeans with Improved Composition & Disease Resistance	Plant & Soil Sciences	\$52,590
Howe, Daniel	National Science Foundation	Genome Sequence for the Apicomplexan Sarcocystis Neurona	Veterinary Science	\$1,601,973
Hu, Wuyang	Cooperative State Research Education and Extension	Sustainable Systemic Rural Development Using the Community Business Matching Model and Process	Agricultural Economics	\$499,931
Hunt, Arthur	National Science Foundation	Collaborative Project: Arabidopsis 2010: Systematic Compilation of mRNA Poly(A) Sites for Studying Alternative Polyadenylation	Plant & Soil Sciences	\$0
Jackson, Vanessa	Cooperative State Research Education and Extension	A Model for the Recruitment and Retention of African American Students in the Fields of Agriculture, Food, and Merchandising, Apparel, & Textiles	Merchandising, Apparel & Textiles	\$0
Johnson, Douglas	KY Soybean Promotion Board	Migration Patterns for Aphid Pests of Small Grains as Indexed by Capture in an Aphid Suction Trap - Resubmission for Year 2 (FY09)	Entomology	\$7,221
Kachroo, Aardra	KY Soybean Promotion Board	Developing Glycerol as a Protective Agent Against Soybean Diseases Prevalent in Kentucky	Plant Pathology	\$70,282

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Kitchel, Tracy	Cooperative State Research Education and Extension	Novice-Expert Faculty Teaching Partners	Community & Leadership Development	\$481,856
Lee, Chad	KY Soybean Promotion Board	Soy MVP: Soybean Management Verification Program	Plant & Soil Sciences	\$261,485
Lee, Chad	KY Soybean Promotion Board	Low Soybean Populations and Weed Control, Year 2	Plant & Soil Sciences	\$11,000
McNear, David	Cooperative State Research Education and Extension	Response to Soil Processes to an Above Ground Plant-Fungal Symbiosis from Rhizosphere to Regional Scales	Plant & Soil Sciences	\$0
Meyer, Alphonse	University of Georgia	Sustainable Agriculture Research and Education (SARE) Professional Development Program (PDP) Plan of Work	Agricultural Economics	\$40,000
Nah, Seungahn	University of Maryland	The Kentucky Citizen Media Project: The Lexington Commons (via New Voices)	Community & Leadership Development	\$1,700
Pushkarskaya, Helen	Cooperative State Research Education and Extension	On-line Math Modules	Agricultural Economics	\$0
Schardl, Christopher	West Virginia University	Biochemical and Genetic Basis of Ergot Alkaloid Diversification	Plant Pathology	\$0
Shearer, Scott	Iowa State University	Demonstration of Map Based Applicator Control for Environmental Stewardship	Biosystems & Ag Eng	\$0
Suman, Surendranath	KY Beef Council	Investigating the Use of Ginger Extract to Improve Tenderness of Beef Biceps Femoris	Animal and Food Sciences	\$18,000
Tanaka, Keiko	National Science Foundation	[Doctoral Dissertation Research] Making Boundary and Linking Globally: "Material Politics" of Phytosanitary Regulation on Mexican Mango	Community & Leadership Development	\$0
Van Doren, Saratha	KY Soybean Promotion Board	Validation Trial for Yield Loss Prediction Model for Asian Soybean Rust	Plant & Soil Sciences	\$24,000
VanSanford, David	Agricultural Research Service	Accelerating the Development of FHB-Resistant Soft Red Winter Wheat Varieties	Plant & Soil Sciences	\$64,807
VanSanford, David	Agricultural Research Service	U.S. Wheat and Barley Scab Initiatives Networking and Facilitation Office and Website	Plant & Soil Sciences	\$168,917
Webb, Bruce	Animal and Plant Health Inspection Service	Metagenomic Sequencing to Identify Emerald Ash Borer (EAB) Pathogens for Biological Control Applications	Entomology	\$100,000
Wendroth, Ole	Cooperative State Research Education and Extension	Dynamics of Soil State Variables and Related Processes Across a Land Use Gradient in Spatial and Temporal Transition	Plant & Soil Sciences	\$324,255