

**Agriculture
July 2008
Proposal Submissions**

Principal Investigator	Sponsor	Title	Department	Total Amount Requested
Adkins, Gwenda	Steele Reese Foundation	Family Consumer Science Program Assistant for Environmental Education	Area Extension Field Programs	\$113,000
Bertsch, Paul	Environmental Protection Agency	Bioavailability, Toxicity, and Trophic Transfer of Manufactured ZnO Nanoparticles: A View from the Bottom	Plant & Soil Sciences	\$0
Bruening, William	KY Small Grain Promotion Council	Evaluation of Wheat Varieties for Differences in Straw Yield and Forage Potential	Plant & Soil Sciences	\$6,000
Bruening, William	KY Small Grain Promotion Council	Performance of Small Grain Varieties in Kentucky	Plant & Soil Sciences	\$104,234
Chappell, Joseph	Worcester Polytechnic Institute	Plant Production Platforms for Artemisinin to Treat Malaria and 4 Other Neglected Tropical Diseases	Plant & Soil Sciences	\$0
Cox, John	KY Department of Fish and Wildlife	Terrestrial Nuisance Species Management Plan	Forestry	\$8,500
Cox, Nancy	KY Council on Postsecondary Education	Equine Trust Fund	Assoc Dean Research/Director AES	\$80,000
DeBolt, Seth	National Science Foundation	CAREER: A Chemical Biology Approach to Dissecting Plant Cell Expansion: Research and Educational Outcomes in Plant Design	Horticulture	\$0
Fei, Songlin	National Science Foundation	CAREER: A Chronological Multi-Scale Geospatial Approach to Examine the Invasion of Lonicera Maackii	Forestry	\$578,961
Fulcher, Amy	University of Florida	Efficacy of PGRs on Branch Architecture of Container-Grown Shrubs	Horticulture	\$4,200
Grove, John	KY Small Grain Promotion Council	The Nutrient Dynamics in Wheat Straw Management	Plant & Soil Sciences	\$22,500
Hanley, Carol	KY Department of Military Affairs	4-H Community-Based Science	Tracy Farmer Cntr for the Environment	\$205,000
Harwood, James	National Science Foundation	CAREER: Invasions and Interaction Pathways: Molecular Elucidation of the Dynamics of a Detritus-Based Food Web	Entomology	\$679,328
Higgins, Stephen	Fayette County Conservation District	On-Farm Water Enhancement Program for a Spring Development	Biosystems & Ag Eng	\$5,000
Higgins, Stephen	Fayette County Conservation District	On-Farm Water Enhancement Program for a Heavy Use Area	Biosystems & Ag Eng	\$1,500

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Houtz, Robert	National Science Foundation	Chloroplast-Localized Co- and Post-Translational Processing Enzymes: Essential Determinants of Protein Maturation	Horticulture	\$0
Jacobs, Charlene	KY Arts Council	Extension and Arts Grant	Area Extension Field Programs	\$10,000
Johnson, Douglas	KY Small Grain Promotion Council	Migration Patterns for Aphid Pests of Small Grains as Indexed by Capture in an Aphid Suction Trap (Year 3)	Entomology	\$2,404
Kachroo, Aardra	National Science Foundation	CAREER: Developing the Soybean-Soybean Mosaic Virus Pathosystem for Studying Extreme Resistance to Viruses	Plant Pathology	\$0
Kachroo, Pradeep	National Science Foundation	Molecular, Genetic, and Biochemical Characterization of Oleate-Regulated Defense Gene Expression in Plants	Plant Pathology	\$0
Karathanasis, Anastasios	KY Health Services Cabinet	Soil Morphology Training for On-Site Sewage Disposal Systems	Plant & Soil Sciences	\$45,000
Lee, Chad	KY Small Grain Promotion Council	Wheat Yield in 15-inch Rows	Plant & Soil Sciences	\$0
Lee, Chad	KY Small Grain Promotion Council	Wheat Yield Response to Old Corn Rows	Plant & Soil Sciences	\$0
Martin, James	KY Small Grain Promotion Council	Influence of Timing of Topdressing Nitrogen Fertilizer Relative to Application of Osprey Herbicide	Plant & Soil Sciences	\$2,800
Martin, James	KY Small Grain Promotion Council	Application Timing for Italian Ryegrass Control in Conventional & No-tillage Wheat	Plant & Soil Sciences	\$3,000
Murdock, Lloyd	KY Small Grain Promotion Council	Improving Nitrogen Application Technology Under Kentucky Conditions	Plant & Soil Sciences	\$5,000
Palli, Subba	National Science Foundation	Function and Hormonal Regulation of Accessory Gland Proteins	Entomology	\$0
Perry, Sharyn	National Science Foundation	Transcriptional Regulatory Networks Controlling Higher Plant Embryogenesis	RCTF-1-Plant Sciences-Agronomy	\$0
Rogers, Dennis	Naprogenix	SBIR: Selection-Driven Plant Metabolites for Treatment of CNS Diseases	Ky Tobacco Research & Dev Center	\$0
Roseman, Mary	Economic Research Service	Study of a Behavioral Economics Intervention on Healthy Menu Choices	Nutrition and Food Science	\$0
Schwab, Gregory	KY Small Grain Promotion Council	Wheat Management for Wet-Natured Soils	Plant & Soil Sciences	\$0

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Smalle, Jan	National Science Foundation	Proteolysis-Dependent Feedback Inhibition of Cytokinin Action	Plant & Soil Sciences	\$0
Stringer, Jeffrey	KY Environmental and Public Protection Cabinet	Kentucky Woodland Magazine Special Pine Management Issue	Forestry	\$20,000
Stringer, Jeffrey	KY Environmental and Public Protection Cabinet	Kentucky Woodland Magazine Special Forest Health Issue	Forestry	\$20,000
Tsyusko, Olga	National Science Foundation	Collaborative Research: Linking Micro- and Macroevolutionary Approaches to Address Evolution of Breeding Systems in Heterostylous Species	Plant & Soil Sciences	\$272,008
VanSanford, David	KY Small Grain Promotion Council	Soft Red Winter Wheat Breeding and Variety Development	Plant & Soil Sciences	\$39,750
Wendroth, Ole	KY Small Grain Promotion Council	Soil Mineral Nitrogen and Crop Biomass Dynamics of Winter Wheat in Space and Time in a Farmer's Field	Plant & Soil Sciences	\$4,500
Wood, Craig	University of Nebraska	New Technologies for Agriculture Extension (NTAE)	e-Extension	\$295,913
Zhu, Hongyan	University of Wisconsin	Control of Root Symbioses and Plant Development through the Transduction of Calcium Spiking	Plant & Soil Sciences	\$0
Zhu, Hongyan	National Science Foundation	CAREER: From Medicago Truncatula to Medicago Sativa (Alfalfa): Functional and Comparative Analysis of RCT1-Mediated Innate Immunity in Medicago	Plant & Soil Sciences	\$0