

**Agriculture
July 2009
Proposal Submissions**

Principal Investigator	Sponsor	Title	Department	Total Amount Requested
Bailey, Ernest	University of Minnesota	Phase 3: Continuation of SNP Gene Mapping Projects	Veterinary Science	\$28,125
Barton, Christopher	Forest Service	Long-Term Effects of Forestry Best Management Practices on Hydrology, Water Chemistry and Woody Debris in Three Appalachian Headwater Catchments	Forestry	\$14,000
Bruening, William	KY Small Grain Growers Association	Performance of Small Grain Varieties in Kentucky	Plant & Soil Sciences	\$6,000
Carter, Craig	KY Department of Agriculture	Diagnostic Laboratory Services for Farmers and Agribusinesses	Livestock Diag Disease Center	\$5,655,280
Clore, Danielle	Department of Health and Human Services	ARRA: Building the Capacity of Kentucky's Nonprofit Organizations	Community & Leadership Devel	\$250,000
Colliver, Donald	KY Renewable Energy Consortium	Optimal Energy Usage Control for Residential Solar Photovoltaic Systems (Smart PV Houses)	Biosystems & Ag Eng	\$149,560
Crofcheck, Czarena	KY Renewable Energy Consortium	Effect of particle size on the pretreatment and enzyme hydrolysis efficiency	Biosystems & Ag Eng	\$0
DeBolt, Seth	National Science Foundation	Steryl Glycosides form Intrinsic Membrane Microdomains that Modulate Trafficking, Stress Response and Signaling	Horticulture	\$0
Downie, A. Bruce	National Science Foundation	Research Coordination Network: Seed Biology	Horticulture	\$496,495
Fox, Charles	National Science Foundation	Disentangling the Complex Effects of Immigration on Inbred Locally Adapted Populations	Entomology	\$250,082
Goodin, Michael	National Science Foundation	Novel Interaction and Localization Domains in Potato Yellow Dwarf Virus Proteins	Plant Pathology	\$633,359
Goodin, Michael	National Science Foundation	BREAD: Project PREVIEW - Preventing Viral Epidemics Worldwide	Plant Pathology	\$0
Harwood, James	Colorado State University	Enhancing Generalist Predation in Wheat-Based Cropping Systems	Entomology	\$37,893
Harwood, James	Colorado State University	Development of a Non-Manipulative Molecular Technique	Entomology	\$0
Hildebrand, David	Consortium for Plant Biotechnology Research Inc	Branch-Chain Fatty Acid Production in Plants	Plant & Soil Sciences	\$220,456

**Agriculture
July 2009
Proposal Submissions**

Hildebrand, David	KY Renewable Energy Consortium	Development of plants as enhanced renewable energy and lubricant sources	Plant & Soil Sciences	\$0
Hosier, Amy	Cooperative State Research Education and Extension	Memory Banking: Extension-Based Intervention for Caregiving in Rural Communities	Family Studies	\$0
Hunt, Arthur	National Science Foundation	Regulation of Plant Polyadenylation Factor	Plant & Soil Sciences	\$0
Jones, Kenneth	University of Arizona	CYFAR Sustainable Community Projects Common Measures Study	Community & Leadership Devel	\$0
Karathanasis, Anastasios	KY Cabinet for Health and Family Services	SPHB Soils Morphology Course	Plant & Soil Sciences	\$30,000
Kurzynske, Janet	Cooperative State Research Education and Extension	Children, Youth, and Families at Risk Capacity Building Program	Nutrition and Food Science	\$0
Ma, Yulin	Southern Sustainable Agriculture Research	Evaluation of Mineral Deposition in Fetuses throughout Pregnancy in Swine	Animal and Food Sciences	\$10,000
Martin, James	KY Small Grain Growers Association	Managing Giant Ragweed and Marestalk in Wheat	Plant & Soil Sciences	\$0
McNeill, Samuel	KY Renewable Energy Consortium	Measurement and Demonstration of Energy Efficiency for Grain Dryers	Biosystems & Ag Eng	\$0
Meyer, Alphonse	University of Georgia	Sustainable Agriculture Research and Education (SARE) Professional Development Program (PDP) Plan of Work	Agr Economics	\$30,000
Montross, Michael	KY Renewable Energy Consortium	Comparison of corn, soybeans, switchgrass, miscanthus, willow, and sweet sorghum as energy crops in Kentucky	Biosystems & Ag Eng	\$0
Murdock, Lloyd	KY Small Grain Growers Association	Improving Nitrogen Application Technology under Kentucky Conditions □	Plant & Soil Sciences	\$0
Palli, Subba	Department of Agriculture	Feeding RNAi: A Functional Genomics Tool to Manage Insecticide Resistance	Entomology	\$0
Palli, Subba	Department of Agriculture	Insect Molecular Physiology: Basic Science to Applications	Entomology	\$0
Palli, Subba	National Institute of General Medical Sciences	ARRA: Molecular Analysis of Juvenile Hormone Action	Entomology	\$142,724
Sharkey, Michael	National Science Foundation	MIGER: Malaysia Inventory Group for Entomological Research	Entomology	\$906,230

**Agriculture
July 2009
Proposal Submissions**

Shearer, Scott	Cooperative State Research Education and Extension	Precision Agriculture: Precision Resource Management - Phase V	Biosystems & Ag Eng	\$0
Shearer, Scott	John Deere Dubuque Works of Deere and Company	Master Research Agreement	Biosystems & Ag Eng	\$0
Stamper, Charles	Co for National Community Service	Kentucky 4-H Vista Project	Area Extension Field Programs	\$0
Stephenson, Laura	University of Tennessee	Investor Education for College Students	Family & Consumer Sciences	\$90,890
Stringer, Jeffrey	Forest Service	Silvicultural Prescriptions for Degraded Hardwood Stands	Forestry	\$7,500
Stringer, Jeffrey	KY Energy and Environment Cabinet	Economic Impact of Fire on Forest Product Values in the Appalachian Regions of Kentucky and Tennessee	Forestry	\$294,000
Urschel, Kristine	Department of Agriculture	Lysine requirements in yearling horses determined using indicator amino acid oxidation	Animal and Food Sciences	\$149,707
Vail, Ann	Cooperative State Research Education and Extension	Health Education Leadership, KY	Family & Consumer Sciences	\$0
Van Sanford, David	KY Small Grain Growers Association	Soft Red Winter Wheat Breeding and Variety Development in Kentucky	Plant & Soil Sciences	\$45,188
Webber, Kelly	American Heart Association	Development and Testing of Behavioral Weight Loss Treatment for Appalachian Adults	Nutrition and Food Science	\$0
Wendroth, Ole	KY Small Grain Growers Association	Winter Wheat Development, Grain Yield and Soil Water and Nitrogen Dynamics in a Farmer's Field in Western Kentucky	Plant & Soil Sciences	\$0
Werner-Wilson, Ronald	KY Cabinet for Health and Family Services	Healthy Marriage Child Support Community Demonstration Project	Family Studies	\$60,866
Workman, Stephen	Ohio State University	Student Training on Scientific Protocols and Risk Management for Aquatic Ecosystems Research and Evaluation Studies	Biosystems & Ag Eng	\$143,229
Zhou, Xuguo	Department of Agriculture	Tracking Multitrophic Movement of miRNA through Transgenic Plant, Target, and Nontarget Arthropods: The First Step for the Ecological Risk Assessment in Planta RNAi	Entomology	\$150,000