Principal Investigator	Department	Sponsor	Title	Total Amount Requested
Barrett, Michael	Plant & Soil Sciences	Mycosynthetix Incorporated	Further Development of the Organic Herbicide, Mevalocidin	\$98,901
			Restoring a native hardwood forest on lands affected by surface	
Barton, Christopher	Forestry	Steele Reese Foundation	mining in eastern Kentucky	\$32,778
			Hydrobiogeochemical Processes in Karst Systems: A Proposal to	
Bertsch, Paul	Plant & Soil Sciences	National Science Foundation	Establish a Karst Critical Zone Observatory	\$4,999,996
			Engineered nanomaterial (ENIVI) interactions with terrestrial rungi:  Understanding the roles of particle and receptor surface chemistry	
Bertsch, Paul	Plant & Soil Sciences	National Science Foundation	and ENM toxicity	\$309,580
		National Institute of Food and	system toward evaluation of housing system impact on immune	
Bewley, Jeffrey	Animal and Food Sciences	Agriculture	function and general health	\$497,542
				1 - /-
D'Angelo, Elisa	RCTF-1-Plant Sciences- Agronomy	National Science Foundation	Wetland Processes Regulating the Fate of Contaminants in Appalachian Coal Slurry Impoundments	\$380,244
D / Higelo, Elisa	/ Gronomy	rectional science roundation	Apparachian coarsianty impoundments	<del>\$300,211</del>
Davis, Alison	Agr Economics	Foundation for a Healthy KY	Evaluating Foundation Initiatives Foundation for a Healthy Kentucky	\$112,645
		National Institute of Food and	Electric-Hybrid Platform And Control Framework For Collaborative	
Dvorak, Joseph	Biosystems & Ag Eng	Agriculture	Field Work With Human Workers	\$500,000
	Community & Leadership			
Epps, Rebekah	Devel	KY Department of Education	Greenhouse Management for the Agricultural Educator	\$2,824
			The Effects of Slow-Release Nitrogen Fertilizers on White Clover	
Goff, Ben	Plant & Soil Sciences	Koch Agronomic Services LLC	Persistence in Bermudagrass Pastures	\$14,878
			Resurrecting Perennial Legumes as a Livestock Feeding Strategy:An	
Goff, Ben	Plant & Soil Sciences	Auburn University	Improved High-Tannin Birdsfoot Trefoil Cultivar with Trans-Regional Potential	\$32,817
			iviuitispecies grazing as a strategy to adapt animal production to	70-70-1
Grove, John	Plant & Soil Sciences	West Virginia University	climate change: Soil-forage-animal interactions to sustain ecosystem services	\$60,550
Grove, Joint	Traine & John Joiennes	Trest virginia Offiversity		700,330
Crove John	Dlant Q. Cail Caigness	Kach Agranamia Saniisaa II C	Nitrification Inhibition for Winter Wheat: Temporal and Vertical	¢1F 000
Grove, John	Plant & Soil Sciences	Koch Agronomic Services LLC	Persistence Raising Soybean Yield Potential in Dry Seasons: Increased Rooting	\$15,000
İ			Depth and Greater Soil Water Extraction with Deeper Depth to the	
Grove, John	Plant & Soil Sciences	Kentucky Soybean Promotion Board	Fragipan	\$105,000

Halich, Gregory	Agr Economics	University of Arkansas	Transitioning to a Forage-Finished Beef Enterprise: Upper South and Beyond	\$36,117
Hildebrand, David	Plant & Soil Sciences	National Institute of Food and Agriculture	Regulation Of The Gene Network Governing Storage Product Accumulation During Soybean Embryo Development	\$489,233
Hunt, Arthur	Plant & Soil Sciences	National Institute of Food and Agriculture	Contributions of alternative polyadenylation to the responses of soybean to stress	\$494,694
Hunt, Arthur	Plant & Soil Sciences	National Science Foundation	RET Supplement for IOS-0817818	\$11,661
Hunt, Arthur	Plant & Soil Sciences	National Science Foundation	REU Supplement to IOS-0817818	\$6,000
Hunt, Arthur	Plant & Soil Sciences	KY Science and Technology Co Inc	Posttranscriptional Control of Responses of Plants to Elevated Temperatures	\$29,964
Jacobsen, Krista	Horticulture	National Institute of Food and Agriculture	Sustainable Nutrient Cycling on Diversified Farms Serving Community Food Systems	\$495,005
Jacobsen, Krista	Horticulture	North Carolina State University	Establishing a Network for International Education in Sustainable Agriculture and Food Security	\$3,606
Kachroo,	Plant Pathology	National Institute of Food and Agriculture	Understanding the role of RNA silencing components in resistance-mediated signaling	\$498,935
Kachroo, Aardra	Plant Pathology	Clemson University	Building a permanent feeding site: reniform nematode co-option of host plant genes	\$54,871
Kachroo, Aardra	Plant Pathology	National Institute of Food and Agriculture	Understanding the role of potyviral P3 in inducing extreme resistance mediated by soybean Rsv1	\$498,457
Kachroo, Pradeep	Plant Pathology	National Science Foundation	REU:Molecular and biochemical analysis of a hemibiotrophic interaction	\$6,000
Kurzynske, Janet	Nutrition and Food Science	National Institute of Food and Agriculture	2013 Children, Youth, and Families at Risk Sustainable Community	\$574,000
Lacki, Michael	Forestry	Arkansas Game and Fish Commission	Home range and habitat use of foraging gray bats in northern Arkansas	\$128,977
Lawrence, Laurie	Animal and Food Sciences	Prairie Oat Growers Association	Oats-preventing equine disease:role of starch source in large intestinal microbial disturbances	\$122,598

Lee, Chad	Plant & Soil Sciences	Kentucky Soybean Promotion Board	Stressing Soybeans to Increase Yield	\$48,407
Lehmkuhler, Jeffrey	Animal and Food Sciences	KY Beef Network	Kentucky Beef Network	\$485,247
Lehmkuhler, Jeffrey	Animal and Food Sciences	University of Arkansas	Bull Selection and Management to Reduce the Risk of Production and Financial Losses	\$47,278
Lensing, Janet	Entomology	Animal and Plant Health Inspection Service	Asian Longhorned Beetle (ALB) Outreach	\$27,481
Lensing, Janet	Entomology	Animal and Plant Health Inspection Service	Phytophthora ramorum Farm Bill National Nursery Survey	\$22,500
Lensing, Janet	Entomology	Animal and Plant Health Inspection Service	Thousand Cankers Disease (TCD) Survey	\$14,740
Lensing, Janet	Entomology	Animal and Plant Health Inspection Service	Orchard Survey	\$15,035
Lensing, Janet	Entomology	Animal and Plant Health Inspection Service	Grape Survey	\$12,613
Martin, James	Plant & Soil Sciences	Kentucky Soybean Promotion Board	Developing Control Strategies for Glyphosate - Resistant Weeds in Kentucky	\$15,770
McCulley, Rebecca	Plant & Soil Sciences	National Institute of Food and Agriculture	Controls on the Plant-Soil Stoichiometry of Dryland Agroecosystems: A Sabbatical Strengthening Grant	\$180,572
Moe, Luke	Plant & Soil Sciences	National Institute of Food and Agriculture	Amino acids as a driver of rhizosphere microbial community structure and function	\$500,000
Montross, Michael	Biosystems & Ag Eng	National Institute of Food and Agriculture	DeterminingBaled Biomass Dry-Matter Content Using Neutron Thermalization	\$499,554
Mueller, Thomas	RCTF-1-Plant Sciences- Agronomy	Forest Service	Methods for Designing Filter Strips Using GIS and Terrain Analysis	\$25,000
Mueller, Thomas	RCTF-1-Plant Sciences- Agronomy	Purdue University	Integrating Spatial Educational Experiences (Isee) # Mapping a New Approach to Teaching and Learning Soil Science	\$112,500
Mueller, Thomas	RCTF-1-Plant Sciences- Agronomy	Kentucky Soybean Promotion Board	Variable Width Buffer Tool for Kentucky	\$25,328

Murdock, Lloyd	Plant & Soil Sciences	Kentucky Soybean Promotion Board	Fragipan Remediation	\$35,000
Nagy, Peter	RCTF-1-Plant Sciences- PlantPath	National Institute of Allergy and Infectious Diseases	Mechanism of inhibition of RNA virus replication by host WW-domain proteins	\$382,250
Nagy, Peter	RCTF-1-Plant Sciences- PlantPath	National Institute of Allergy and Infectious Diseases	Interviral recombination and host factors	\$382,250
Nagy, Peter	RCTF-1-Plant Sciences- PlantPath	National Institute of Allergy and Infectious Diseases	Antagonistic effect of RNA viruses on prion propagation during infections	\$382,250
Nagy, Peter	RCTF-1-Plant Sciences- PlantPath	National Institute of Allergy and Infectious Diseases	Cofilin actin depolymerization factor is a major restriction protein for virus replication	\$382,250
Palli, Subba	Entomology	Agricultural Research Service	P450 inhibition assays	\$25,918
Palli, Subba	Entomology	National Institute of Food and Agriculture	Molecular mechanisms of spider mite-plant interactions	\$499,818
Perry, Sharyn	RCTF-1-Plant Sciences- Agronomy	National Institute of Food and Agriculture	Gene regulation controlled by the MADS-factor GmAGL15 during Glycine max embryogenesis.	\$499,984
Phillips, Timothy	Plant & Soil Sciences	National Institute of Food and Agriculture	Breeding and Developing Salvia hispanica as a Viable New US Crop	\$373,357
Schardl, Christopher	Plant Pathology	National Institute of Food and Agriculture	Gene expression studies of symbiosis between tall fescue and the fungus Neotyphodium coenophialum	\$500,000
Smalle, Jan	Plant & Soil Sciences	Kentucky Soybean Promotion Board	Engineering Soybean with Constitutive Cytokinin Responses to Increase Yield	\$100,000
Suman, Surendranath	Animal and Food Sciences	National Institute of Food and Agriculture	Proteome changes in American dry-cured hams	\$149,999
Suman, Surendranath	Animal and Food Sciences	Mississippi State University	Proteome basis of pale, soft, and exudative condition in broiler meat	\$50,000
Timoney, John	Veterinary Science	KY Horse Racing Commission	Potency and Efficacy of a Novel Leptospira Vaccine in Pregnant Mares	\$85,218
Vaillancourt, Lisa	Plant Pathology	National Institute of Food and Agriculture	Mechanisms of Infection of Maize by Stenocarpella maydis	\$499,218

			Poles of homologous nutative effectors unique to Magnanorthe and	
Vaillancourt, Lisa	Plant Pathology	Texas A&M Research Foundation	Roles of homologous putative effectors unique to Magnaporthe and Colletotrichum species infecting monocots	\$202,801
·	9.	National Institute of Food and	Increasing Nitrogen Use Efficiency In Barley By Optimizing	
Van Sanford, David	Plant & Soil Sciences	Agriculture	Mycorrhizal Symbiosis	\$150,000
	Community & Leadership			
Vincent, Stacy	Devel	KY Department of Education	Turf Management/Agricultural Education Professional Development	\$4,389
Walters, Cory	Agr Economics	University of Arkansas	Revenue Risk, Forward Contracting and Crop Insurance	\$44,884
waiters, cory	Agriconomics	Offiversity of Arkansas	Nitrogen, Carbon and Soliwater Dynamics in Grazed Pasture Systems	744,004
		National Institute of Food and	# Small-Scale Heterogeneity Protects Water Quality and Reduces	
Wendroth, Ole	Plant & Soil Sciences	Agriculture	Nitrogen Losses	\$499,579
		National Institute of Food and	Toxic aphids: how bacterial symbionts influence coccinellid defense	
White, Jennifery	Entomology	Agriculture	and biological control of Aphis craccivora	\$498,132
		National Institute of Food and	Technology and mechanism of pH-shifting to enhance legume	4
Xiong, Youling	Animal and Food Sciences	Agriculture	protein functionality and oxidative stability	\$498,945
Zhou, Xuguo	Entomology	National Institute of Food and Agriculture	RNAi-mediated genetic manipulation: colony collapse in termites	\$500,000
Zilou, Auguo	Entomology	Agriculture	invarinculated genetic manipulation, colony collapse in termites	\$300,000
Zhu,Hongyan	Plant & Soil Sciences	National Institute of Food and Agriculture	Host genetic control of strain-specific nitrogen fixation in the legume- rhizobial symbiosis	\$500,000
	Traine & Son Sciences	/ Silection C	Thizodal symbosis	7500,000
		National Institute of Food and	Cloning of the Rj4 gene that regulates strain-specific nodule	4.50.000
Zhu,Hongyan	Plant & Soil Sciences	Agriculture	development in soybean	\$150,000
		National Institute of Food and	Genetic control of pod shattering in soybeans and comparative	
Zhu,Hongyan	Plant & Soil Sciences	Agriculture	genetic analysis with other legumes	\$500,000