

2014 Mid-South Soybean Board Member Projects by Category Summary

AREA: Production Soybean Production Research TOPIC: Breeding Soybean Breeding - Germplasm and Variety Development CATEGORY: Biotech Biotechnology Studies to Improve Soybean Production
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Development and deployment of biotechnology for soybean improvement	Missouri	\$194,225
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Production / Breeding / Biotech Subtotal of (1) Project: **\$194,225**

AREA: Production Soybean Production Research TOPIC: Breeding Soybean Breeding - Germplasm and Variety Development CATEGORY: Composition Studies Improving Soybean Seed Composition of Oil and Pr

Genetic modification of sterol composition in soybean seeds	Missouri	\$0
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High throughput cloning and functional characterization of molecular switches for stress tolerance and enhanced seed composition in soybean	Missouri	\$0
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Characterize the functionality of soybean seed coats and evaluate novel prebiotic fibers from soy in humans	Arkansas	\$36,000
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Production / Breeding / Composition Subtotal of (3) Projects: **\$36,000**

AREA: Production Soybean Production Research TOPIC: Breeding Soybean Breeding - Germplasm and Variety Development CATEGORY: Genetic Gene Discovery, Gene Mapping and Bioengineering Studies
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Translational genomics for drought tolerance in soybean	Missouri	\$91,973
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Identification of genes for resistance to multi-soybean nematode species	Missouri	\$89,917
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Novel construct design for plant gene silencing employing artificial tasiRNA	Missouri	\$83,502
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Sudden death syndrome and Asian rust resistant transgenic soybean	Missouri	\$112,544
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Management of insecticide resistance in corn earworm populations	Missouri	\$69,334
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Breeding new soybean cultivars with high yield and disease	Arkansas	\$200,000
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AREA: Production | Soybean Production Research
TOPIC: Breeding | Soybean Breeding - Germplasm and Variety Development
CATEGORY: Genetic | Gene Discovery, Gene Mapping and Bioengineering Studies

Development of reniform nematode resistant soybean lines from JTN-5203, PI 404166, and 02011-126-1-1-5-1-1 soybean, 33-2014	Mississippi	\$23,300
Evaluation of germplasm and genetic mapping for flooding tolerance in soybean	Missouri	\$84,640
Genetic engineering to enhance oil traits in soybean	Missouri	\$175,265
Drought tolerance research - tagging drought tolerance genes using rapid screening methods	Arkansas	\$76,000
Establishment of drought-tolerant soybean plants by genetic manipulation of ERECTA signaling	Arkansas	\$35,000
Response and net profit of genetically enhanced and conventional soybean varieties to fertilizer recommendations on low nutrient soils in rainfed and irrigated production systems, 21-2014	Mississippi	\$57,616
Soybean germplasm enhancement using genetic diversity	Arkansas	\$148,000
Discovery of yield genes for soybean improvement	Missouri	\$112,917
Cercospora Leaf Blight Disease of Soybean-Screening Soybean Varieties for Differences in the Expression of Resistance Genes	Louisiana	\$35,055
Novel strategy for gene stacking through coordinated gene expression	Missouri	\$83,873
A new transgenic approach to control diseases of soybean in Arkansas	Arkansas	\$58,000
Improving soybeans for increased productivity on specific soil types -- sand, loam and clay	Missouri	\$32,000
Southern blot analysis of transgenic soybean - Glycine max plants to determine transgenic status and copy number of the DGAT1 and cysteine oleosin genes	Missouri	\$150,000
Nutritional evaluation of soybean meal generated from high oleic acid soybeans	Missouri	\$52,608
Molecular-genetic regulation of seed oil accumulation in soybean	Missouri	\$0
Genetic engineering for yield improvement in soybean	Missouri	\$50,000
Identification and characterization of soybean germplasm to improve drought tolerance	Missouri	\$72,003
Costa Rica breeding project	Missouri	\$150,000
Improving heat tolerance: Identification and characterization of soybean germplasm	Missouri	\$90,633

AREA: Production | Soybean Production Research
TOPIC: Breeding | Soybean Breeding - Germplasm and Variety Development
CATEGORY: Genetic | Gene Discovery, Gene Mapping and Bioengineering Studies

Production / Breeding / Genetic Subtotal of (25) Projects: **\$2,134,180**

AREA: Production | Soybean Production Research
TOPIC: Breeding | Soybean Breeding - Germplasm and Variety Development
CATEGORY: OtherBreeding | Other Soybean Breeding Studies

Phenotyping F2 populations segregating for frogeye leaf spot resistance, 32-2014	Mississippi	\$24,500
Evaluation of exotic germplasm for drought tolerance	Missouri	\$0
Purification and production of pre-foundation seed of UA soybean lines	Arkansas	\$30,000
Evaluation of evaluated oleic acid germplasm for development of soybeans with high oleic acid.	Missouri	\$79,190
Broad-range approaches to determining salt tolerance in Arkansas soybean varieties	Arkansas	\$67,000
Advanced biotechnologies for soybean breeding and nutritional enhancement	Missouri	\$0
Screening soybean germplasm and breeding soybeans for flood tolerance	Arkansas	\$46,000
Development of soybeans with improved functional traits for Missouri	Missouri	\$185,736
North Missouri soybean breeding program	Missouri	\$367,288
Evaluation of the inheritance of resistance to Phomopsis seed decay (PSD) in PI 458130 populations, 31-2014	Mississippi	\$43,303
To develop productive group IV and V soybeans resistant to nematodes and diseases	Missouri	\$238,110
Development of Phomopsis seed decay-resistant soybean lines from new sources of resistance, 28-2014	Mississippi	\$18,000

Production / Breeding / OtherBreeding Subtotal of (12) Projects: **\$1,099,127**

AREA: Production | Soybean Production Research
TOPIC: Breeding | Soybean Breeding - Germplasm and Variety Development
CATEGORY: Quality | Soybean Seed Quality Studies

AREA: Production Soybean Production Research		
TOPIC: Breeding Soybean Breeding - Germplasm and Variety Development		
CATEGORY: Quality Soybean Seed Quality Studies		

Improving germination rate of soybean seed dried using recently-introduced in-bin drying systems agents with commercialization potential	Arkansas	\$41,000
Production and maintain high quality soybean seed in Arkansas and grower education	Arkansas	\$75,000
Determining environmental management schemes to influence the development of high seed quality in MG IV and MG V soybean, 14-2014,	Mississippi	\$90,699

Production / Breeding / Quality Subtotal of (3) Projects: **\$206,699**

AREA: Production Soybean Production Research		
TOPIC: Breeding Soybean Breeding - Germplasm and Variety Development		
CATEGORY: Variety Soybean Variety Testing and Germplasm Screening		

Evaluation of private and public soybean varieties and breeding lines for resistance to stem canker, forgeye leaf spot, purple leaf and pod stain, black root rot, and rust, 19-2014	Mississippi	\$49,093
Comprehensive disease screening of soybean varieties in Arkansas	Arkansas	\$132,000
Soybean Breeding And Variety Development	Louisiana	\$26,113
Evaluation of Management Practices and Variety Selection for Improved Soybean Seed Quality	Louisiana	\$22,630
Survey of seed pathogens in seed samples submitted to the variety testing program using DNA based diagnostics	Arkansas	\$28,500
MSU-ES on-farm soybean variety demonstration program, 57-2014,	Mississippi	\$46,624
NIR analysis of variety testing and contest beans	Missouri	\$15,000
Characteristics of maximum yield soybean fields	Arkansas	\$79,000

Production / Breeding / Variety Subtotal of (8) Projects: **\$398,960**

Production / Breeding Subtotal of (52) Projects: **\$4,069,191**

AREA: Production | Soybean Production Research
TOPIC: Management | Soybean Management Studies
CATEGORY: Economic | Economic Analyses

Soybean enterprise budgets and production economic analysis	Arkansas	\$19,000
Soybean storage profitability and marketing strategies for Mississippi soybean growers, 11-2014	Mississippi	\$30,792
Developing profitable irrigated rotational cropping systems for Arkansas and mid-south	Arkansas	\$9,000

Production / Management / Economic Subtotal of (3) Projects: **\$58,792**

AREA: Production | Soybean Production Research
TOPIC: Management | Soybean Management Studies
CATEGORY: Education | Soybean Conferences and Education

Irrigation Water Management for Southern Region Soybean Growers (Year 1 of 4)	Mid-South	\$50,000
North Central Soybean Research Program	Missouri	\$30,000
Technological aids for information dissemination to soybean producers	Arkansas	\$13,000
Support of Delta Agriculture, Delta Council, 05-2014	Mississippi	\$15,000
Farm Families of Mississippi, MFBF, 50-2014	Mississippi	\$15,000
CAFNR undergraduate soybean industry research scholars	Missouri	\$16,000
Soybean And Grain On-Farm Demonstration Program - 2013	Louisiana	\$50,000
Development of an on-line course - future of biotechnology crops	Arkansas	\$9,000
Agronomic Research and Extension To Improve Soybean Production In Louisiana	Louisiana	\$25,000
Soybean research verification program	Arkansas	\$90,000
Soybean Science Challenge	Arkansas	\$76,000
Improving technology transfer for profitable and sustainable soybean production	Arkansas	\$20,000
Application Technology Demonstration and Education Program for Arkansas Crops	Arkansas	\$78,000

AREA: Production | Soybean Production Research
TOPIC: Management | Soybean Management Studies
CATEGORY: Education | Soybean Conferences and Education

Video support for Mississippi soybean producers, 41-2014	Mississippi	\$16,203
2014 Louisiana Soybean & Grain Research & Promotion Board Report	Louisiana	\$4,500

Production / Management / Education Subtotal of (15) Projects: **\$507,703**

AREA: Production | Soybean Production Research
TOPIC: Management | Soybean Management Studies
CATEGORY: OtherManagement | Other Production Management Studies

Alternative winter crops for soybean double crop system	Arkansas	\$30,000
Effects of the Introduction of Feed Grains into Mid-South Soybean Production Systems (Year 2 of 6)	Mid-South	\$201,000
Evaluation Of Soybean Cultural Practices In Southwest Louisiana	Louisiana	\$64,710
Investigating emerging production recommendations for sustainable soybean production in all soybean production system	Arkansas	\$125,000
Agronomic and economic evaluation of soybean/corn rotation with twin- row production and increased nutrient management, 07-2014	Mississippi	\$22,678
Soybean physiological maturity: documentation and developing a tool for management, 75-2014	Mississippi	\$100,718
Developing cultural management practices for winter cover crops to improve soybean performance and yield in the full season soybean production system	Arkansas	\$66,000
Effect of Planting Date, Latitude, and Environmental Factors on Choice of Maturity Group in Mid-South Soybean Production (Concluded Year 3 of 3 – Currently working on 1 YR Extension)	Mid-South	\$50,000
Improving Management of Double Crop Soybean Production	Louisiana	\$26,559
Edamame production recommendations	Arkansas	\$80,000

Production / Management / OtherManagement Subtotal of (10) Projects: **\$766,665**

AREA: Production | Soybean Production Research
TOPIC: Management | Soybean Management Studies
CATEGORY: PrecisionAg | Precision Agriculture Technologies

AREA: Production | Soybean Production Research
TOPIC: Management | Soybean Management Studies
CATEGORY: PrecisionAg | Precision Agriculture Technologies

Remote sensing of row crops with small unmanned aerial vehicles (UAV), 46-2014	Mississippi	\$2,700
Surface conditions affecting likelihood of temperature inversions and timing of aerial spraying, 47-2014	Mississippi	\$10,463
Delta agricultural weather project, 29-2014	Mississippi	\$23,889

Production / Management / PrecisionAg Subtotal of (3) Projects: **\$37,052**

AREA: Production | Soybean Production Research
TOPIC: Management | Soybean Management Studies
CATEGORY: Soil | Soil Fertility Studies and Nutrient Recommendations

Soybean response to N addition in high yield environments, 27-2014,	Mississippi	\$22,770
Corn and soybean crop residue management impact on soil quality, yield, and returns, 25-2014	Mississippi	\$36,714
Defining potassium nutritional requirements for soybean with indeterminate growth habit	Arkansas	\$39,000
Validating soil-test based fertilizer recommendations for soybean	Arkansas	\$26,000
Correlation of soil test K and P indices with plant tissue concentrations and soybean yield, 22-2014	Mississippi	\$34,406
Soil Test Calibration And Fertilization Research For Sustainable Soybean And Corn Production In Louisiana	Louisiana	\$31,058
Decadal effects of residue and water management practice alternatives on soybean yield and soil properties in a wheat-soybean double-crop production system	Arkansas	\$46,000
Fertilization of soybean	Arkansas	\$70,000
In-Field Evaluation Of Soil Fertility For Soybean And Corn	Louisiana	\$13,903
Optimization of Potassium Fertilization for Corn and Soybean Production	Louisiana	\$15,668
Evaluation of soybean plant response to tillage system, 02-2014	Mississippi	\$12,000
Assessment of soybean varieties in Arkansas for sensitivity to chloride injury	Arkansas	\$32,000

AREA: Production | Soybean Production Research
TOPIC: Management | Soybean Management Studies
CATEGORY: Soil | Soil Fertility Studies and Nutrient Recommendations

Production / Management / Soil Subtotal of (12) Projects: **\$379,519**

AREA: Production | Soybean Production Research
TOPIC: Management | Soybean Management Studies
CATEGORY: Sustainability | Sustainable Soybean Production Practices

Missouri Green Fields Initiative	Missouri	\$0
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The Arkansas Discovery Farm program	Arkansas	\$17,000
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Production / Management / Sustainability Subtotal of (2) Projects: **\$17,000**

AREA: Production | Soybean Production Research
TOPIC: Management | Soybean Management Studies
CATEGORY: Water | Soil Moisture, Irrigation and Water Management Studies

Timing Of Irrigation Initiation And Termination On Soybean Yield In Northeast Louisiana	Louisiana	\$18,177
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Utility of subsurface drip irrigation for soybean production	Missouri	\$49,088
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Improving yield and yield stability for irrigated soybeans	Arkansas	\$151,000
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Economics of multiple water-saving technologies across the Arkansas delta region	Arkansas	\$47,000
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Determine irrigation rate and timing, and water availability for optimum yield, water use efficiency, and profitability of soybean in Mississippi Blackland Prairie region, 62-2014	Mississippi	\$25,000
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Sustaining water resources in mid-south soybean	Arkansas	\$40,000
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Row crop irrigation science extension and research (RISER) program, 55-2014	Mississippi	\$137,256
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Plant, soil, and weather based cues for irrigation timing in soybean production	Arkansas	\$25,000
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Web application for flexible pipe calculation system, 76-2014	Mississippi	\$26,487
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Developing scientific irrigation scheduling methods for Mississippi soybean production systems, 52-2014	Mississippi	\$34,977
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AREA: Production | Soybean Production Research
TOPIC: Management | Soybean Management Studies
CATEGORY: Water | Soil Moisture, Irrigation and Water Management Studies

Impact of irrigation initiation timing on plant development and yield of indeterminate and determinate soybean varieites, 56-2014	Mississippi	\$48,890
Yield and economic responses of soybean to irrigation initiation on clay soil in Mississippi, 40-2014	Mississippi	\$25,322
Developing profitable deficit irrigation guidelines for Mississippi soybean production systems, 53-2014	Mississippi	\$98,497
Developing strategies for improving furrow irrigation efficiency, 54-2014,	Mississippi	\$76,100
Irrigation pumping plant efficiency	Arkansas	\$45,000
Costs and benefits of on-farm water storage (OFWS) systems, 10-2014,	Mississippi	\$67,896

Production / Management / Water Subtotal of (16) Projects: **\$915,690**

Production / Management Subtotal of (61) Projects: **\$2,682,421**

Production Subtotal of (113) Projects: **\$6,751,612**

AREA: Pests | Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress
TOPIC: Disease | Soybean Disease Research
CATEGORY: Cercospora | Cercospora Leaf Blight Studies

Evaluation Of Cercospora Leaf Blight And Purple Seed Stain In Louisiana	Louisiana	\$30,893
Using Molecular Biology To Control Soybean Diseases: Cercospora Leaf Blight And Rust	Louisiana	\$55,928
Development of an effective program to manage strobilurin-resistant frog-eye leaf spot in Arkansas	Arkansas	\$51,000

Pests / Disease / Cercospora Subtotal of (3) Projects: **\$137,821**

AREA: Pests | Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress
TOPIC: Disease | Soybean Disease Research
CATEGORY: Fungicide | Fungicide Studies and Seed Treatments

AREA: Pests | Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress
TOPIC: Disease | Soybean Disease Research
CATEGORY: Fungicide | Fungicide Studies and Seed Treatments

Evaluation Of Soybean Cultivars And Fungicides For Disease Management In Northeast Louisiana	Louisiana	\$26,006
Electrically-Charged Fungicide Adjuvant	Louisiana	\$28,000
Investigations into strobilurin fungicide resistance of soybean pathogens in Mississippi, 61-2014	Mississippi	\$53,585

Pests / Disease / Fungicide Subtotal of (3) Projects: **\$107,591**

AREA: Pests | Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress
TOPIC: Disease | Soybean Disease Research
CATEGORY: OtherDisease | Other Soybean Disease Studies

Provide in-field soybean diagnostic service for Mississippi soybean producers, 35-2014	Mississippi	\$10,000
Using spatial distribution and time of colonization of Rhizoctonia solani	Arkansas	\$42,000
Supplement to Biology and Control of Major Diseases of Soybean	Louisiana	\$16,000
Biology and Control Of Major Diseases of Soybeans	Louisiana	\$94,613
Soybean Disease (including Rust) Sentinel Plot Scouting Program	Louisiana	\$27,500
Measuring Yield Losses Due To Diseases Of Soybeans	Louisiana	\$24,000
Foliar disease management in full and double crop soybean production systems in Arkansas	Arkansas	\$36,000
Development of a seedling inoculation technique to evaluate soybean for resistance to Phomopsis seed decay, 34-2014	Mississippi	\$26,679
Understanding Neocosmospora, Thielaviopsis and Fusarium Virguliforme in early season production systems	Arkansas	\$59,000

Pests / Disease / OtherDisease Subtotal of (9) Projects: **\$335,792**

AREA: Pests | Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress
TOPIC: Disease | Soybean Disease Research
CATEGORY: RootRot | Root Rot Disease Studies (including Charcoal and Phytophthora)

AREA: Pests Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress TOPIC: Disease Soybean Disease Research CATEGORY: RootRot Root Rot Disease Studies (including Charcoal and Phytophthora)		
Characterization of endophytic microbial communities associated with charcoal rot disease in soybean, 60-2014	Mississippi	\$61,064
Blaine Fellowship Managing charcoal rot using soil incorporated nutrients, 72-2014	Mississippi	\$70,800
Pests / Disease / RootRot Subtotal of (2) Projects:		\$131,864
AREA: Pests Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress TOPIC: Disease Soybean Disease Research CATEGORY: Rust Soybean Rust Studies		
Soybean disease monitoring for Mississippi soybean producers ,15-2014,	Mississippi	\$50,000
Defense peptides to protect soybean from rust	Missouri	\$78,100
Pests / Disease / Rust Subtotal of (2) Projects:		\$128,100
AREA: Pests Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress TOPIC: Disease Soybean Disease Research CATEGORY: Virus Soybean Virus Studies		
Surveying Louisiana Soybeans for Soybean Vein Necrosis and Soybean Mottle	Louisiana	\$20,000
Soybean vein necrosis virus (SVNV) in Mississippi, 66-2014	Mississippi	\$49,391
Dissecting the epidemiology and resistance to soybean vein necrosis virus	Arkansas	\$80,000
Pests / Disease / Virus Subtotal of (3) Projects:		\$149,391
Pests / Disease Subtotal of (22) Projects:		\$990,559
AREA: Pests Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress TOPIC: Insect Soybean Insect Studies CATEGORY: OtherInsect Other Insect Studies		

AREA: Pests | Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress
TOPIC: Insect | Soybean Insect Studies
CATEGORY: OtherInsect | Other Insect Studies

Bee project: assessing the impact of Neonicotinoid seed treatments on pollinators	Arkansas	\$25,000
Educating growers and consultants on insect monitoring and control	Arkansas	\$5,000
Fire ant control in soybean	Arkansas	\$11,000
Characterization of the resistance potential for the diamide insecticides Belt and Prevathon, 37-2014	Mississippi	\$37,316
Impact of planting date and maturity group on management strategies for insect pests in Mississippi, 58-2014	Mississippi	\$58,647
Soybean Looper Population Growth Rates on Herbicide Resistant Weeds	Louisiana	\$16,480
Three-cornered alfalfa hopper (TCAH) management in soybeans, 17-2014,	Mississippi	\$50,820
Integrated Mgt of Changing Soybean Insect Pest Complexes	Louisiana	\$57,350
Lepidopteran insect pest management in soybeans, 01-2014	Mississippi	\$72,163
Development of Methods Assessing the Effects of Drought and Salt Stress on Soybean Insect Management	Louisiana	\$3,500
Developing a new threshold for corn earworm, Helicoverpa zea	Arkansas	\$26,000
Optimizing Chemical Control Strategies For Louisiana Soybean Pests	Louisiana	\$26,506
Re-evaluation Of Threecornered Alfalfa Hopper Pest Status In Louisiana Soybeans	Louisiana	\$14,950
Bee project: Assessing impact of neonicotinoid (NEO) seed treatments on pollinators, 59-2014	Mississippi	\$54,948

Pests / Insect / OtherInsect Subtotal of (14) Projects: **\$459,680**

Pests / Insect Subtotal of (14) Projects: **\$459,680**

AREA: Pests | Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress
TOPIC: Nematode | Soybean Nematode Research
CATEGORY: Cyst | Soybean Cyst Nematode Studies

AREA: Pests | Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress
TOPIC: Nematode | Soybean Nematode Research
CATEGORY: Cyst | Soybean Cyst Nematode Studies

Using microgenomics to identify new sources of soybean cyst nematode resistance in soybean	Missouri	\$81,649
Germplasm identification and selection for soybean cyst nematode	Missouri	\$82,478

Pests / Nematode / Cyst Subtotal of (2) Projects: **\$164,127**

AREA: Pests | Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress
TOPIC: Nematode | Soybean Nematode Research
CATEGORY: OtherNematode | Other Nematode Studies

Integration of brassica winter cover crops into soybean production systems for the suppression of nematodes and other soilborne diseases	Arkansas	\$25,000
A soybean nematode survey and education program for Arkansas	Arkansas	\$65,000
Use of a plant elicitor peptide for broad-spectrum nematode resistance	Arkansas	\$36,000
Nematode management investigations in Mississippi soybean production systems, 12-2014	Mississippi	\$38,808
Integrated management of soybean nematodes in Arkansas	Arkansas	\$47,000

Pests / Nematode / OtherNematode Subtotal of (5) Projects: **\$211,808**

Pests / Nematode Subtotal of (7) Projects: **\$375,935**

AREA: Pests | Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress
TOPIC: Weed | Soybean Weed Control Studies
CATEGORY: HerbApplication | Herbicide Application Studies

Flag the Technology	Arkansas	\$101,000
Large-scale drift assessment with aerial imagery and ground-based spectral reflectance, 45-2014	Mississippi	\$39,667
Determining the effect of low concentrations of dicamba and 2,4-D on soybean growth and yield, 42-2014	Mississippi	\$37,469

AREA: Pests Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress TOPIC: Weed Soybean Weed Control Studies CATEGORY: HerbApplication Herbicide Application Studies		
Effect of spray additives on spray droplet size, coverage, and efficacy, 04-2014	Mississippi	\$15,131
Development of Technologies to Reduce Off-target Spray Drift in Soybeans	Louisiana	\$12,500
Mitigating herbicide spray drift under field conditions, 44-2014	Mississippi	\$38,167
Pests / Weed / HerbApplication Subtotal of (6) Projects:		\$243,934
AREA: Pests Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress TOPIC: Weed Soybean Weed Control Studies CATEGORY: HerbResistance Herbicide Resistant Weed Management Studies		
Screening for soybean tolerance to metribuzin	Arkansas	\$16,000
Bufkin Fellowship: Effect of fall-seeded cereal cover crops when used in soybeans for control of Palmer amaranth in Mississippi soybeans, 51-2014,	Mississippi	\$68,000
Addressing critical weed control issues in soybean, 20-2014	Mississippi	\$121,608
Support of MU weed science Extension efforts directed towards the management of glyphosate-resistant weeds	Missouri	\$10,000
A team approach to weed management in soybean	Arkansas	\$229,000
Pests / Weed / HerbResistance Subtotal of (5) Projects:		\$444,608
AREA: Pests Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress TOPIC: Weed Soybean Weed Control Studies CATEGORY: WeedOther Other Weed Control Studies		
Soybean Weed Management Systems In Louisiana	Louisiana	\$55,000
Soybean Weed Control Research In Northeast Louisiana	Louisiana	\$36,800
Weed Management And Biology Research In Soybeans	Louisiana	\$40,000

AREA: Pests | Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress
TOPIC: Weed | Soybean Weed Control Studies
CATEGORY: WeedOther | Other Weed Control Studies

Pests / Weed / WeedOther Subtotal of (3) Projects: **\$131,800**

Pests / Weed Subtotal of (14) Projects: **\$820,342**

AREA: Pests | Soybean Pests: Diseases, Nematodes, Insects, Weeds & Stress
TOPIC: Wildlife | Soybean Damage by Wildlife Studies
CATEGORY: Deer | Soybean Damage from Deer Studies

Estimation of deer damage to soybean production in Mississippia spatial and temporal context, 48-2014 Mississippi \$28,281

Pests / Wildlife / Deer Subtotal of (1) Project: **\$28,281**

Pests / Wildlife Subtotal of (1) Project: **\$28,281**

Pests Subtotal of (58) Projects: **\$2,674,797**

AREA: Utilization | Soybean Utilization
TOPIC: Hulls | Soybean Hulls Usage Research
CATEGORY: Hulls | Soybean Hull Studies

Development of soy based nanostructured materials for application as structural foams and adsorbents Missouri \$30,300

Microbial digestion of soybean hulls Missouri \$0

Utilization / Hulls / Hulls Subtotal of (2) Projects: **\$30,300**

Utilization / Hulls Subtotal of (2) Projects: **\$30,300**

AREA: Utilization Soybean Utilization
TOPIC: Meal Soybean Meal Usage Research
CATEGORY: Aquaculture Soybean Meal - Aquaculture Studies

Increasing the soybean meal content of diets for largemouth bass by using meals with improved protein and amino acid content and reduced anti-nutritional factors	Arkansas	\$33,000
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Utilization / Meal / Aquaculture Subtotal of (1) Project: **\$33,000**

AREA: Utilization Soybean Utilization
TOPIC: Meal Soybean Meal Usage Research
CATEGORY: Human Soybean Oil, Soy Foods and Human Health Studies

Lunasin attenuates age-related chronic kidney disease	Missouri	\$0
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Assessment of flavor scalping and/or alteration of flavor by cured epoxidized allyl soyate EAS based can coatings	Missouri	\$14,545
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Innovative and value-added products from Arkansas grown non-GMO soybeans for potential commercialization	Arkansas	\$67,000
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Utilization / Meal / Human Subtotal of (3) Projects: **\$81,545**

AREA: Utilization Soybean Utilization
TOPIC: Meal Soybean Meal Usage Research
CATEGORY: Ruminant Soybean Meal - Ruminant Studies

Using soybean meal protected from rumen degradation to improve health of receiving calves and feed efficiency of stocker and feedlot calves	Missouri	\$85,700
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Assessing nutritional value of soybean meal: identifying nutritional traits that would improve market position of soybeans	Missouri	\$126,915
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Improving rumen stability of soybean meal protein	Missouri	\$0
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Utilization / Meal / Ruminant Subtotal of (3) Projects: **\$212,615**

AREA: Utilization Soybean Utilization
TOPIC: Meal Soybean Meal Usage Research
CATEGORY: Swine Soybean Meal - Swine Studies

Is the allergen affect on pigs a myth?	Missouri	\$0
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AREA: Utilization | Soybean Utilization
TOPIC: Meal | Soybean Meal Usage Research
CATEGORY: Swine | Soybean Meal - Swine Studies

Utilization / Meal / Swine Subtotal of (1) Project: **\$0**

Utilization / Meal Subtotal of (8) Projects: **\$327,160**

AREA: Utilization | Soybean Utilization
TOPIC: Oil | Soybean Oil Usage Research
CATEGORY: Biofuel | Soybean Oil Studies- Biofuel and Industrial Use

Bioheat Technical Steering Committee - BTSC data needed to ballot legacy safe blend level Missouri \$25,000

ASE certified diesel technician training and education Missouri \$25,000

Bioheat Technical Steering Committee Missouri \$25,000

Utilization / Oil / Biofuel Subtotal of (3) Projects: **\$75,000**

AREA: Utilization | Soybean Utilization
TOPIC: Oil | Soybean Oil Usage Research
CATEGORY: EdibleOil | Soybean Oil for Food Studies

Industrial CLA-rich soy oil production and marketing through a Division of Agriculture-Riceland Foods research collaboration Arkansas \$50,000

Utilization / Oil / EdibleOil Subtotal of (1) Project: **\$50,000**

Utilization / Oil Subtotal of (4) Projects: **\$125,000**

Utilization Subtotal of (14) Projects: **\$482,460**

Grand Total of (185) Projects: \$9,908,869