



SOY NEWS

Arkansas Soybean Promotion Board Funds 2008 Research Program

New Project to Address Seed Vigor

The Arkansas Soybean Promotion Board met March 24, 2008, in Little Rock to discuss funding allocations for the upcoming crop year. The Board funded research projects with the University of Arkansas totaling \$1,793,373. (See detail below)

This year the Board asked the UofA to begin to address the issue of seed vigor. While the usual germination test done on all seed is conducted under optimum conditions, vigor tests attempt to determine how seeds will react to stress.

These tests are of particular interest to farmers in the South. Farmers in Arkansas plant soybeans from March through July. Seed produced the previous year can lose quality before it is eventually planted, and in the real world of farming, planting under optimum conditions isn't always possible.

Dr. Rick Cartwright, Extension Plant Pathologist, is heading a diverse group of cooperators conducting the ambitious research and education effort. The UofA has already set up a seed-quality research lab in Fayetteville, and is working with the State Plant Board and other states' seed quality labs as well. Extension personnel and grower organizations are helping collect seed samples from producers.

Germination, accelerated aging, cold temperature, and SVIS computer imaging tests will be conducted on the seed samples. Dr. Cartwright hopes to assess 500-1,000 samples and to use this initial testing to build a dataset on soybean seed quality being used during the entire planting season across the state, and what factors may have contributed to that quality.

Researchers will also conduct field tests using seed varieties known to have varying vigor between lots.

Equally important to the project is the education component. UofA personnel will use every avenue to provide growers with information learned from the project, including field days, grower meetings and a new website. Current plans include an invitation to a nationally known seed quality expert to present a workshop later this year for growers and the Arkansas seed industry.

2007-2008 Arkansas Soybean Promotion Board

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Administrator: Brandy Carroll, Arkansas Farm Bureau Federation. For questions about any information in this newsletter or for more information on board-funded programs, please contact any of the above members, call 501-228-1268, or write Arkansas Soybean Promotion Board, P.O. Box 31, Little Rock, AR. 72203.

For check off information on the web;
www.arspb.org
www.unitedsoybean.org

STATEMENT OF RESEARCH ALLOCATIONS ARKANSAS SOYBEAN PROMOTION BOARD 2007-2008

Early Season Soybean Production System	\$297,153
Full Season Soybean Production System	\$460,877
Double Crop Soybean System	\$184,648
Soybean Germplasm Enhancement Using Genetic Diversity	\$94,270
Breeding Soybean Cultivars with High Yield and Multiple Pest Resistance	\$101,442
Protein, Amino Acid Composition, and Bioactive Peptides in Meals of High Oleic Acid Soybean Lines Developed in AR	\$40,828
Comprehensive Disease Screening Of Soybean Varieties in AR	\$114,601
A Screen for Lines with Potential for Enhanced Insect Resistance	\$18,375
Soybean Research Verification Program	\$100,017
Developing A Rapid and Efficient Method for Screening Soybean for Chloride Tolerance	\$19,875
Biodiesel Research, Demonstration And Education Project	\$18,777
High-Conjugated Linoleic Acid Soy Oil Quality	\$65,176
The Role of Soy in the Prevention/ Treatment of the Metabolic Syndrome	\$40,000
Assessment of Soybean Varieties in Arkansas for Sensitivity to Chloride Injury	\$29,700
Economic Analysis of Soybean Production Practices	\$12,900
Soybean Planting Seed Quality Assessment and Education in Arkansas	\$190,200
Improving Technology Transfer For Profitable and Sustainable Soybean Production	\$4,534
Total Funded Research	\$1,793,373

Sustainable Technology Key to Unlock Success for Soy into 2020

The verdict is out on what factors will weave the fabric of the soybean industry over the next few years. More than a year of visioning and research by a diverse group of industry leaders points to sustainable technologies existing both for soy and other crops.

The soybean checkoff organized the Soy 2020 visioning process to bring together all segments of the soybean industry. Together, a diverse team of industry leaders on Soy 2020's Steering Committee created the Soy 2020 Vision: Through collaboration and technology, the U.S. soybean industry will be a global marketplace leader. Now, the committee has released the results of the first "indicator tracking" study. This provides a vantage point on the overall state of the industry for the next five years.

"The outlook is mostly sunny for farmers, both for soybeans and other crops," says Ike Boudreaux, USB chairman and a soybean farmer from Lebeau, La. "But this means that the technology advances other crops experience could challenge soy's competitiveness. So, soybean farmers and industry need to work even closer to adopt new technologies that will drive success for our industry. That's why the soybean checkoff took the lead in organizing Soy 2020 – to drive technology and ensure our success."

This insight is not an end point, but only the beginning of the Soy 2020 process, says Boudreaux.

"Over the last several months, a wide range

of experts from across the industry provided input on anticipated changes in 74 measurements affecting the soybean industry," he says. "Experts were carefully chosen by the Steering Committee and include industry association leaders, university researchers, specialized con-

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sultants, industry stakeholders and more. Channeling their expertise through the indicator tracking method provides an overall assessment of the direction the industry will take."

Kim Magin, director of global oilseeds and industry affairs for Monsanto, serves on the Soy 2020 Steering Committee along with 17 other representatives from the seed, farmer, processor, food, feed, academia, media and financial service facets of the soybean industry.

"The knowledge provided by the indicator tracking is not a crystal ball, but it is a road map that the soybean industry should include in their long-range planning," says Magin. "Now that we know we are looking at a scenario where sustainable technology will advance

both for soy and other crops, we know that we need to adopt strategies that will best facilitate success."

For farmers, this means adopting new soybean traits, such as low-linolenic and – coming in the next year or two – increased-oleic soybeans. It also means supporting trait adoption incentives throughout the value chain.

For industry, this means improving inputs by leveraging technology dollars for soy. It also requires an evolution in soy processing by moving toward segregated processing, transportation and storage procedures that can handle multiple trait-specific soybean crops. And the entire value chain can help move the industry forward by communicating soy-based innovations to end users of food, feed, fuel and more.

"This first indicator tracking is one early step of the Soy 2020 process. The soybean checkoff's commitment to Soy 2020 will continue as we proceed with twice-yearly updates to the market outlook," says Boudreaux. "We have built Soy 2020's strategies into our own long-range strategic plan. We will continue to urge industry to do the same and will also guide our nation's soybean farmers in the adoption of the sustainable technologies that will ensure our success."

Farmers and industry can e-mail info@soy2020vision.com to sign up for e-mail updates on Soy 2020. For more information on Soy 2020, the Soy 2020 Vision and its strategies, and the collaborative force of its Steering Committee and other key players, visit www.soy2020vision.com.



Economic Analysis Highlights Arkansas Among Top Soybean Meal Producing, Consuming States

Results show how all soybean states are playing critical role in support of livestock industry

Livestock and poultry consume about 98 percent of domestically used soybean meal (SBM), making them the number one customer for U.S. soybean producers. It's always a good idea to know more about your top customer, which is why the United Soybean Board and the soybean checkoff funded research to identify SBM usage by state. Knowing SBM usage by state allows soybean farmers to see the value livestock and poultry bring, both to their state's soybean industry and their state and local economies.

The top 10 SBM-consuming states in rank-

ing order are Iowa, North Carolina, Arkansas, Georgia, Texas, Minnesota, Alabama, Mississippi, California and Oklahoma. Each of these states boasts a strong animal agriculture economy. To see more state rankings regarding livestock production and soybean meal consumption, visit www.animalag.org/Benefits.aspx and click on "Animal Agriculture Economic Analysis Update."

One interesting trend is that most top SBM-consuming states do not grow much of their own soybeans. Of the top 10 SBM-consuming states, only Iowa and Minnesota are producing

enough soybeans to meet the demands of their livestock and poultry producers.

Livestock in Arkansas consume 2,082,000 short tons of SBM annually, 1,651,000 short tons of which are consumed by broilers.

According to the research, Arkansas's animal agriculture in 2006 had a total annual production of \$9.905 billion, with earnings of \$1.524 billion. The industry supplied 63,767 jobs to the state and \$347 million in income and sales taxes, and another \$35 million in property taxes.

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