

United Soybean Board Research Facts

Current fiscal year
checkoff investment
in production research

\$19,492,875



TOP RESEARCH FUNDING AREAS

- **Meal:** Discovering Sources, Developing New Varieties and Germplasm Using Diversity in Cultivated and Wild Soybeans (2020-152-0113)
- **Oil:** High Oleic/Low Linolenic Acid Soybean Deployment (2020-162-0131)
- **Sustainability:** Developing the Perfect Molecular Markers and New Germplasm for Rapid Incorporation of Resistance to Soil Borne Pathogens of Soybean (2020-172-0138)



RECENT INNOVATIVE RESEARCH PROJECTS

- **Meal:** High-Protein Soybean Seeds via an Indirect Beta-Carotene Enhancement Mechanism (2020-152-0107)
- **Oil:** Discovery of Gene Cis-Regulatory DNA Elements to Improve Protein/Oil Content in Soybean (2020-162-0128)
- **Sustainability:** Use of Novel SCN Resistance Traits (2020-172-0153)



TOP THINGS FOR FARMERS TO KNOW ABOUT CHECKOFF DOLLARS INVESTED IN RESEARCH

- Return on investment for checkoff funding production research is \$9.42 in added value for every dollar invested.
- Checkoff investment in public research helps to train the next generation of soybean breeders and researchers.
- Long-term investment in public soybean research has led to development of a strong research community equipped with advanced data and methods to conduct genetic, agronomic and breeding research that is the envy of many other crop scientists.

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Funded by the soybean checkoff



TOP AREAS OF RESEARCH CRITICAL TO THE FUTURE OF SOYBEAN PROJECTS THROUGH USB-FUNDED RESEARCH

- Use of the soybean germplasm collection to find new genes and traits and to introduce genetic diversity into the narrow genetic base in current U.S. soybean varieties.
- Enable and deploy gene editing technologies for public soybean research.
- Conduct research to provide growers with the best genetics, information and chemistry so they can be good stewards of herbicides and fungicides and sustainably manage crops for decades to come.

Sweet Success

ONE OF THE BIGGEST USB SUCCESS STORIES AS A RESULT OF RESEARCH: LONG-TERM DICAMBA LABEL STABILITY - USB-FUNDED RESEARCH CITED IN EPA DELIBERATIONS

Over the last several years, a team of academic investigators collaborated with USB to conduct research and provide deliverables to characterize the off-target movement of dicamba to improve recommendations to mitigate this challenge, while maintaining the utility of dicamba as a weed management tool. This activity involved conducting research in the field and under controlled environments and sharing results with soybean producers, the crop protection industry, and state and federal regulatory agencies. The U.S. EPA has frequently engaged the USB-funded research group to solicit research data and commercial experiences.

On October 27, 2020, the U.S. EPA provided a five-year approval for the registration of dicamba products on dicamba tolerant soybean. More than 20 references were made to experimental evidence obtained by USB-funded weed scientists and extension experts.

USB investments ensured both scientifically based recommendations for dicamba application and continued, long-term freedom to operate for U.S. soybean farmers.

