EVALUATION AND COMMERCIALIZATION OF SOYLEIC VARIETIES IN ILLINOIS

DR. BRIAN DIERS

Professor of Soybean Breeding, University of Illinois Urbana-Champaign

217-265-4062

bdiers@illinois.edu

The importance of soybeans as a globally important protein and oil crop has fueled Dr. Diers' 30+ years of soybean breeding. His current research focuses on developing non-GMO varieties with high oleic acid and low linolenic acid. He works closely with public and private soybean breeders and the SOYLEIC commercialization team. In addition to his role as a soybean breeder, Dr. Diers is a university professor, which has allowed him to visit many places around the world he otherwise never would have seen.

RESEARCH COLLABORATIONS

- **The SOYLEIC breeding effort** is a collaboration with breeders at other universities.
- **The Illinois breeding program** collaborates with the Missouri Soybean Merchandising Council (MSMC) to coordinate testing and seed increases of elite SOYLEIC experimental lines to increase the speed that varieties are released.
- **The MSMC team** also works with seed companies, processors and the food industry to increase demand for SOYLEIC oil.

TRIAL LOCATIONS

- 2-row preliminary tests in four locations in Illinois and SOYLEIC lines in 4-row advanced yield tests in five Illinois locations

QUESTIONS THIS PROJECT WILL ADDRESS

? How can Illinois soybean farmers extract more value from their crop?

YOUR ISA AGRONOMY TEAM CONTACT

Jennifer Jones

217.251.1276

jennifer.jones@ilsoy.org

ILSOY℠ ADVISOR

WHY ARE YOU DOING THIS RESEARCH

Health concerns over trans-fats have decreased use of soybean oil as a food product. The University of Missouri has developed a soybean trait that has improved oil quality via non-GMO breeding. Marketed as SOYLEIC™, the varieties contain greater than 80% oleic acid and less than 3% linolenic acid (high oleic and low linolenic, or HOLL). While the United Soybean Board (USB) has been funding the Illinois SOYLEIC breeding program, testing demands for the existing pipeline exceed USB support.

ISA checkoff funding will give the breeding program the resources to conduct an intensive evaluation of SOYLEIC lines developed through funding from USB. The number of yield plots will increase by at least 4,000 across five Illinois locations.

GOALS OF THIS RESEARCH

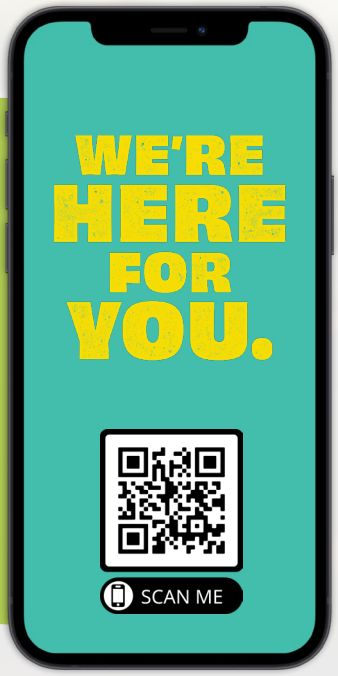
Illinois farmers will have more options for high-yielding SOYLEIC varieties adapted to the various growing environments across the state. This will allow them to capitalize on premium market opportunities in the food industry and various industrial uses.

ILSOY ADVISOR

Check Out ILSoyAdvisor.com!

ILSoyAdvisor is your go-to source for expert agronomic and management advice for Illinois soybean production. Funded by the Illinois Soybean Association checkoff program, ILSoyAdvisor provides the latest education, resources, webinars, success stories, and more so you can maximize your operation. **Check the site regularly for updates and results from checkoff-funded research.**

See updates and learn more about this project, the research team and other projects at ILSoyAdvisor.com and @ILSoyAdvisor on Facebook and Twitter.



Funded by the Illinois Soybean Association Checkoff Program.

The Illinois Soybean Association (ISA) checkoff and membership programs represent more than 43,000 soybean farmers in Illinois. The checkoff funds market development and utilization efforts while the membership program supports the government relations interests of Illinois soybean farmers at the local, state and national level through the Illinois Soybean Growers (ISG). ISA upholds the interests of Illinois soybean producers through promotion, advocacy and education with the vision of becoming a market leader in sustainable soybean production and profitability. For more information, visit the websites www.ilsoy.org and www.ilsoygrowers.com.

ESTB 1964 ILLINOIS SOYBEAN ASSOCIATION