

4-YEAR SOYBEAN FUNGICIDE RESPONSE AT R3

PURPOSE: Demonstrate response to fungicide applications at R3 growth stage under various environmental and disease pressures in IN, OH, and KY in 2017 - 2020.

Location	Planting Dates	Stewart Seeds™ Products	Tillage	Previous Crop
20 Locations	Various	Multiple	Various	Various

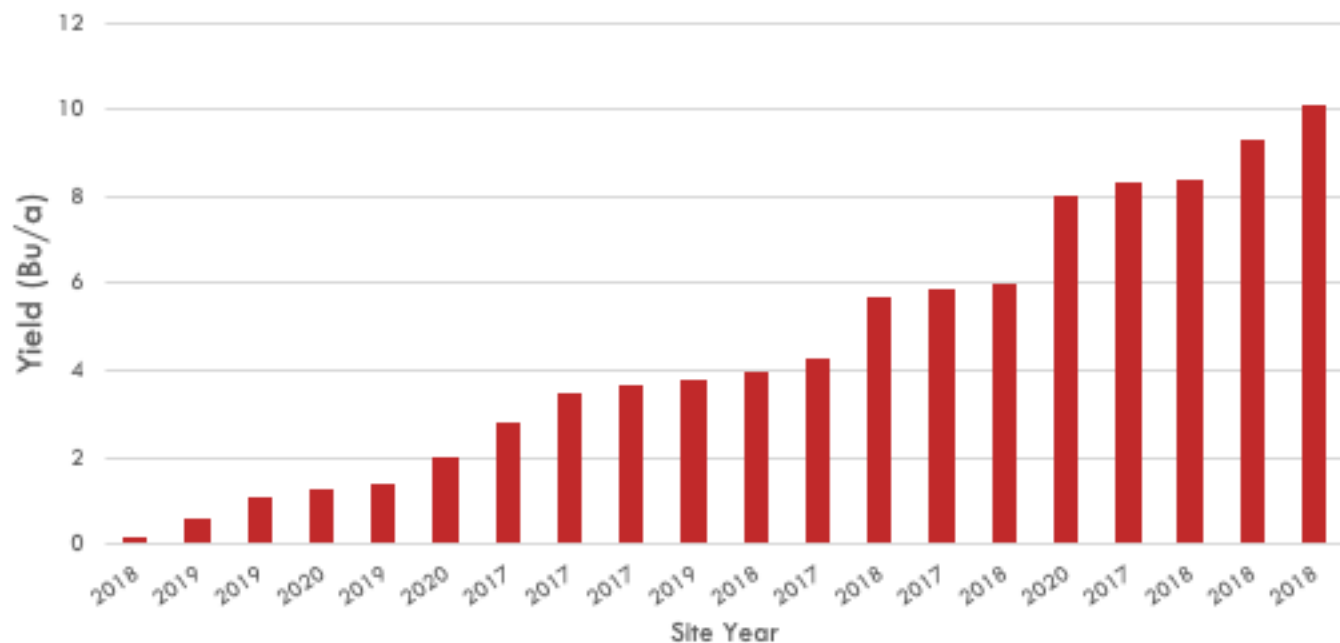
METHODS:

- Multiple designs including large block, strip and application across variety plots.
- Delaro® fungicide was used at 8 oz/A with applicable surfactants if needed. Multiple soybean products were used with various disease scores.
- Most sites were replicated and applications were made with commercial sprayers.
- Yields obtained with either a calibrated weigh wagon or through Climate FieldView™ and calibrated yield monitor.

RESULTS AND DISCUSSION:

- Disease pressure varied across sites over the 4 years.
- 2020 disease pressure was low to moderate depending on location.
- 4-year average yield response was 4.5 bu/a across all 4 years.
- The average selling price of soybeans was used by year with a \$25 chemical and application fee to calculate a 4-year average net revenue of \$13.62.
- The average yield advantage each year was 4.8, 6.2, 1.7, and 2.8 bu/a for 2017, 2018, 2019 and 2020.
- Disease pressure appears to be the major driver in yield response from fungicide.
- Frogeye Leaf Spot product rating did not correlate directly with response to fungicide across years although the products with more susceptibility did respond highly to applications. A two-year fungicide study conducted by the AIM Agronomy team also showed a yield advantage from plant health benefits from Delaro® fungicide.

Delaro Yield Advantage by Site Year



Year	Yield Avg.	Net Revenue
2017	4.8	\$20.60
2018	6.2	\$32.66
2019	1.7	-\$9.87
2020	3.8	\$11.10
Avg.	4.1	\$13.62

RECOMMENDATIONS:

- Delaro® fungicide offers two modes of action against key soybean diseases like frogeye leaf spot.
- Fungicide response can vary based on disease pressure and especially Frogeye leaf spot.
- A robust scouting program that takes into account disease onset, product susceptibility and timing may increase chances of significant returns.
- Ask your Stewart Seeds™ representative about incentives on Bayer products in the Bayer PLUS rewards program.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Performance may vary, from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

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