

FUNGICIDE PRODUCTS/PRACTICES

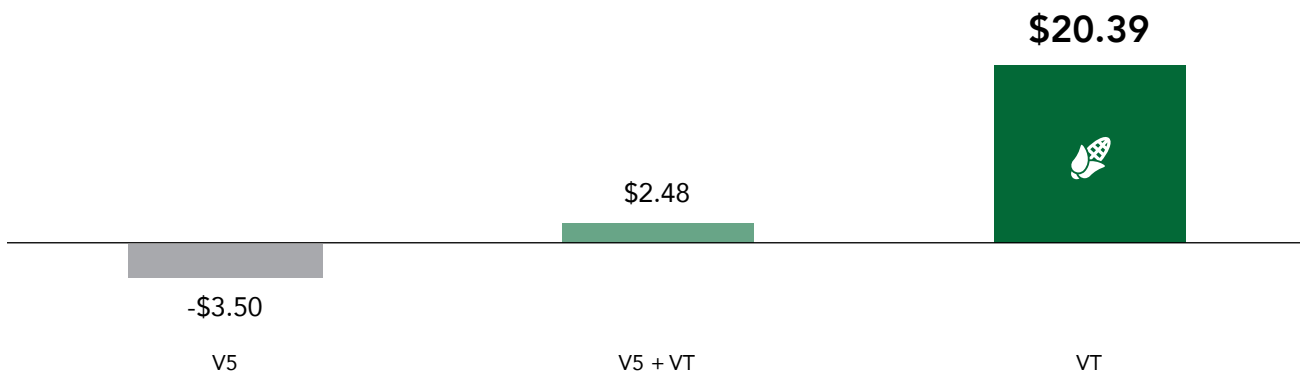


IS A FUNGICIDE PASS WORTH IT?

Fungicides primarily prevent or mitigate disease pressure, but they can also increase water use efficiency, photosynthesis, nitrate reductase activity, increase the window for grain fill, and improve stress tolerance. How a fungicide works depends on its mode or modes of action.

FUNGICIDE PRODUCTS	TRIVAPRO®		DELARO® 325 SC		HEADLINE AMP®	ZOLERA® FX	
CROP	Corn	Soybean	Corn	Soybean	Corn	Corn	Soybean
PFR PROVEN ROI (\$/A.)	\$23.38	\$19.55	\$13.59	\$5.01	\$13.59	\$14.99	\$10.01
YIELD ADVANTAGE	10.6 Bu./A.	3.9 Bu./A.	8.2 Bu./A.	2.5 Bu./A.	9.4 Bu./A.	7.5 Bu./A.	2.6 Bu./A.
APPLICATION	13.7 oz. @ R1	13.7 oz. @ R3	8 oz. @ R1	8 oz. @ R3	10 oz. @ VT	5 oz. @ R1	5 oz. @ R3
MODES OF ACTION	Strobilurin, Triazole, SDHI		Strobilurin, Triazole		Strobilurin, Triazole	Strobilurin, Triazole	
YEARS TESTED	3		3		4	3	
COMPANY	Syngenta Group Company		Bayer		BASF Corporation	UPL NA Inc.	

3-YEAR MULTI-LOCATION FUNGICIDE TIMING RETURN ON INVESTMENT



FUNGICIDE PRODUCTS/PRACTICES

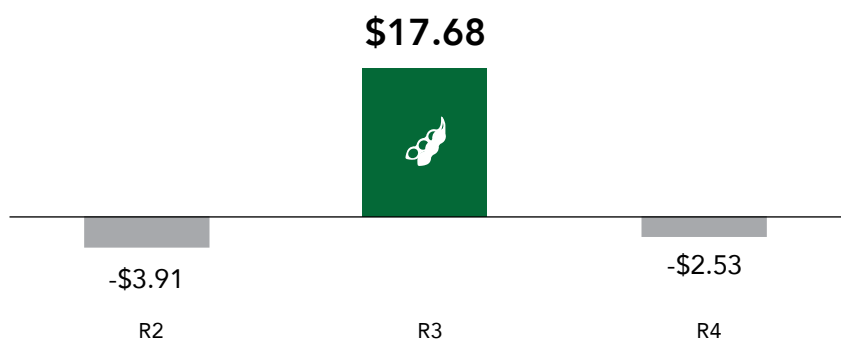


WHEN SHOULD YOU SPRAY?

Later applications in corn control diseases that tend to move in after pollination. Many fungicides provide plant health benefits that keep the plant healthier during grain fill.

FUNGICIDE PRODUCTS	NEW 2021		NEW 2021		NEW 2021		NEW 2021
	PRIAXOR®	STRATEGO® YLD	LUCENTO®		MIRAVIS® NEO		MIRAVIS® TOP
CROP	Soybean	Soybean	Corn	Soybean	Corn	Soybean	Soybean
PFR PROVEN ROI (\$/A.)	\$18.73	\$26.76	\$19.92	\$18.95	\$24.45	\$16.03	\$48.21
YIELD ADVANTAGE	3.8 Bu./A.	4.4 Bu./A.	9.4 Bu./A.	3.7 Bu./A.	11.0 Bu./A.	3.7 Bu./A.	6.5 Bu./A.
APPLICATION	4 oz. @ R3	4 oz. @ R3	5 oz. @ R1	5 oz. @ R3	13.7 oz. @ R1	13.7 oz. @ R3	13.7 oz. @ R3
MODES OF ACTION	Strobilurin, SDHI	Strobilurin, Triazole	Triazole, SDHI		Strobilurin, Triazole, SDHI		Triazole, SDHI
YEARS TESTED	4	4	3		3		3
COMPANY	BASF Corporation	Bayer	FMC Corporation		Syngenta Group Company		Syngenta Group Company

7-YEAR MULTI-LOCATION FUNGICIDE AND INSECTICIDE TIMING RETURN ON INVESTMENT



Approximately 70% of a soybean plant's yield comes from nodes 6 to 13. Those nodes are usually present at the R3 growth stage.

PRODUCT DESCRIPTIONS

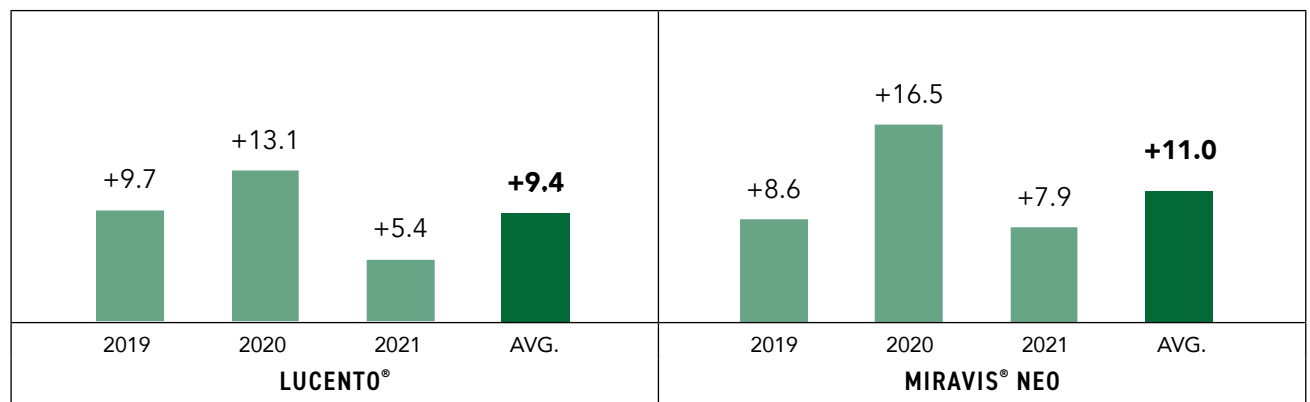
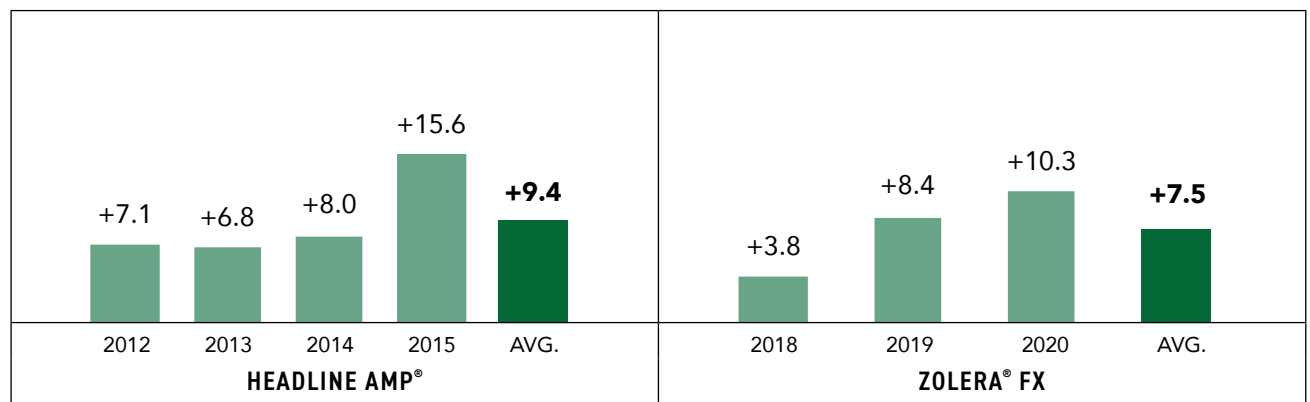
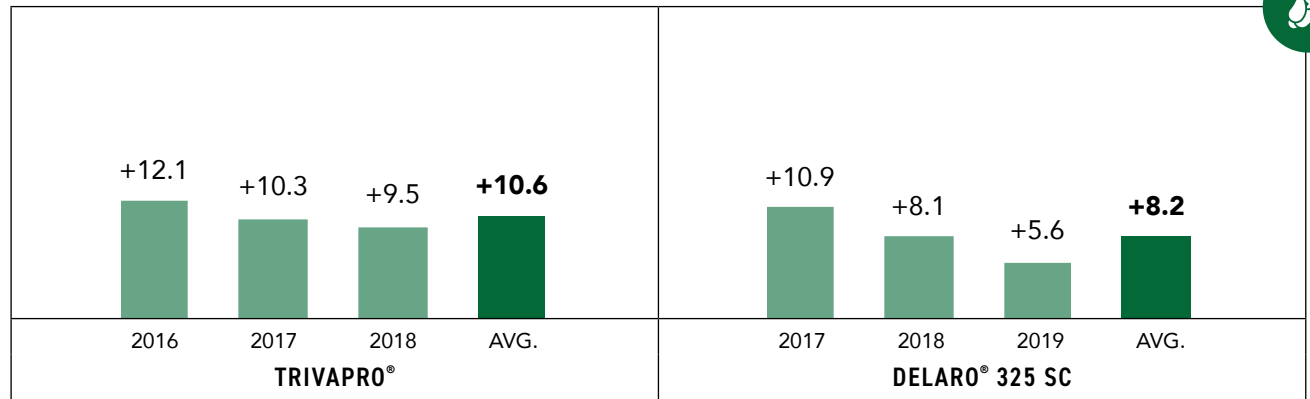
TRIVAPRO®	Trivapro® delivers long-lasting disease control and crop enhancement benefits with three complementary modes of action (strobilurin, triazole, and SDHI). Trivapro has exceptional rainfastness and provides longer residual control, extending plant health.
DELARO® 325 SC	Delaro® 325 SC contains two broad-spectrum modes of action in one product. It also contains 2.8 times the rate of Proline® compared to Stratego YLD® and provides both preventative and curative defenses against disease.
HEADLINE AMP®	Headline AMP® fungicide provides two modes of disease control. The first provides preventive activity, and the second is a triazole that provides post-infection disease control. An active ingredient in Headline AMP is F500®, which helps plants grow more efficiently and allows them to focus their energy on producing higher yields.
PRIAXOR®	Priaxor® fungicide protects plants from a broad spectrum of fungi. It is powered by Xemium® fungicide, an active ingredient that continuously distributes its chemistry throughout the leaf. Priaxor is a combination of Xemium fungicide and F500® - the same active ingredient in Headline AMP®.
STRATEGO® YLD	Stratego® YLD fungicide combines triazole technology with strobilurin chemistry for disease control in soybeans. It provides both preventative and curative activity and more systemic movement.
ZOLERA® FX	Zolera® FX combines two powerful fungicides at full rates for maximum performance and yield in corn and soybeans. The combination of a fast-acting and highly systemic strobilurin with a highly systemic triazole delivers more reliable and consistent performance, more robust disease control and plant health benefits that help maximize the crop's yield potential.
LUCENTO®	Lucento® fungicide provides an exclusive combination of benefits for disease protection and high-yielding performance against the most challenging diseases. Lucento's unique mobility throughout the plant defends against and controls threatening diseases like Gray Leaf Spot in corn and Frogeye Leaf Spot in soybeans, resulting in better seed quality, greener fields, and higher yields.
MIRAVIS® NEO	Miravis® Neo is formulated with three powerful active ingredients. Miravis Neo contains a combination of azoxystrobin, propiconazole, and Adepidyn® technology – one of the highest-performing SDHI molecules on the market.
MIRAVIS® TOP	Miravis® Top fungicide delivers powerful disease control and plant-health benefits for soybeans. Miravis Top is a combination of Adepidyn® fungicide and difenoconazole, which control the toughest soybean diseases, including strobilurin-resistant pathogens such as Frogeye Leaf Spot.

FUNGICIDE

YIELD ADVANTAGE

PFR **PROVEN**

CORN MULTI-YEAR YIELD ADVANTAGE



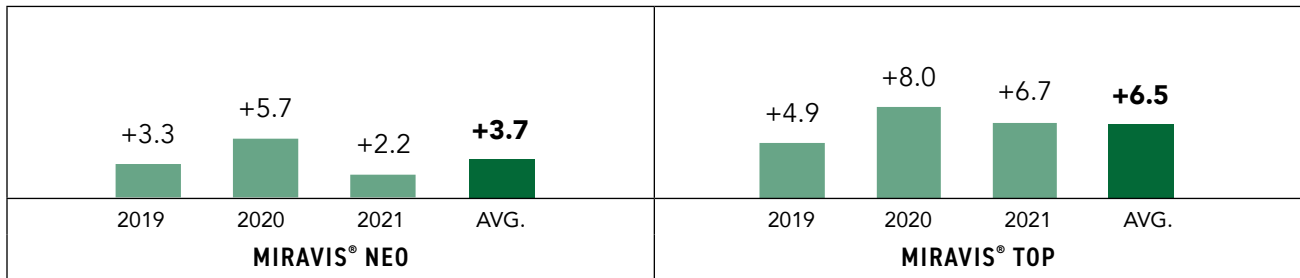
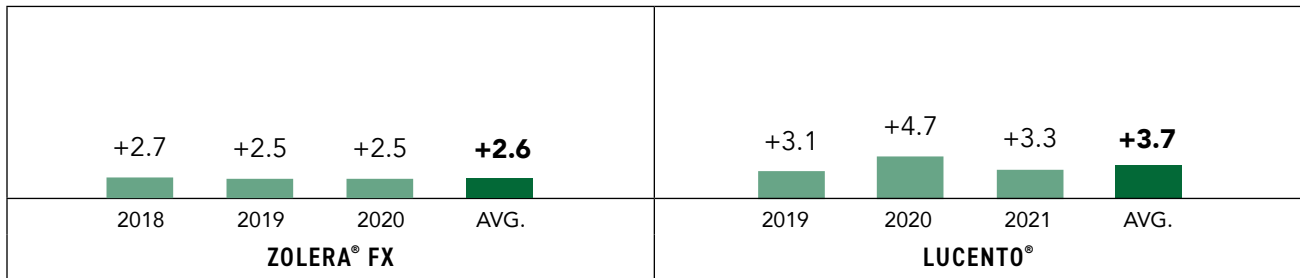
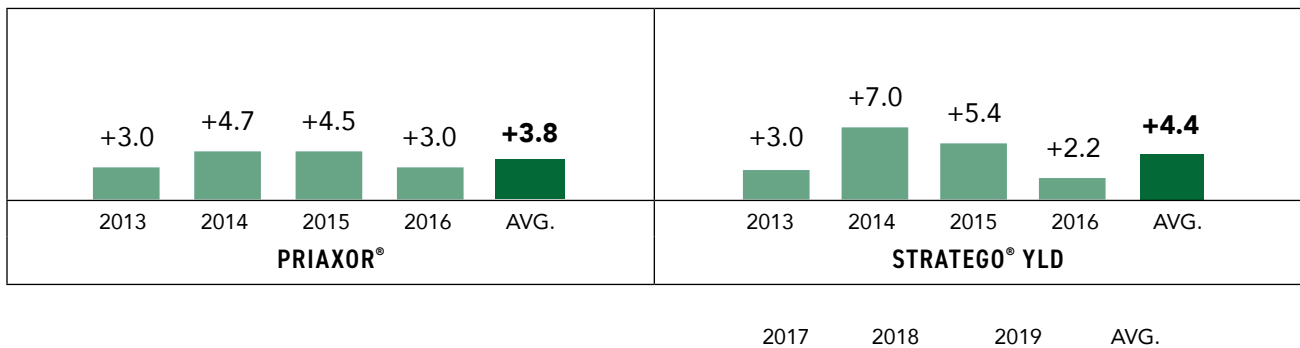
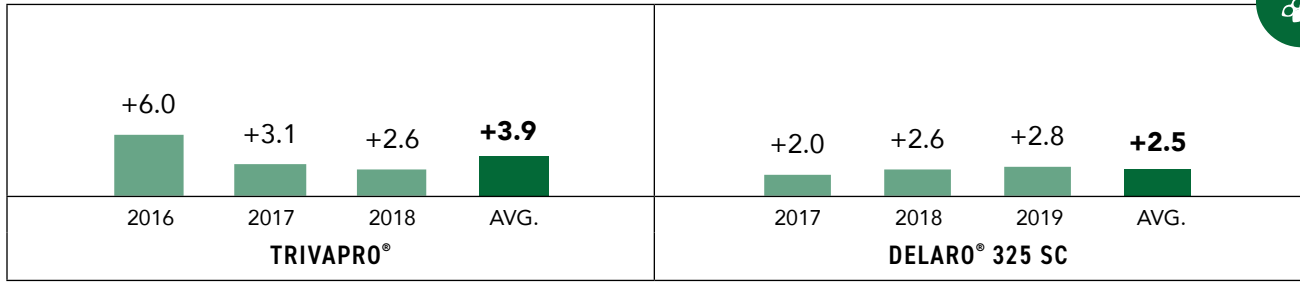
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FUNGICIDE

YIELD ADVANTAGE



SOYBEAN MULTI-YEAR YIELD ADVANTAGE



FUNGICIDE PRACTICES

PFR PROVEN

TIME OF DAY

Fungicide applications appear to be more effective when applied in the morning. A dew may help spread the fungicide over the surface of the leaf.

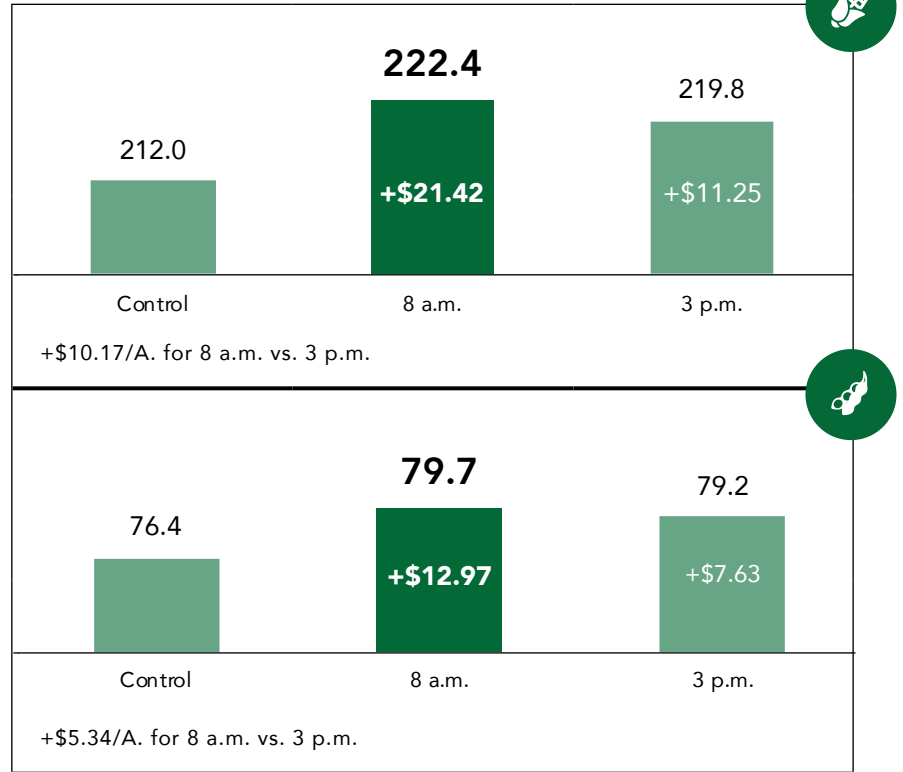


Timely fungicide applications pay due to the plant health benefits they provide.

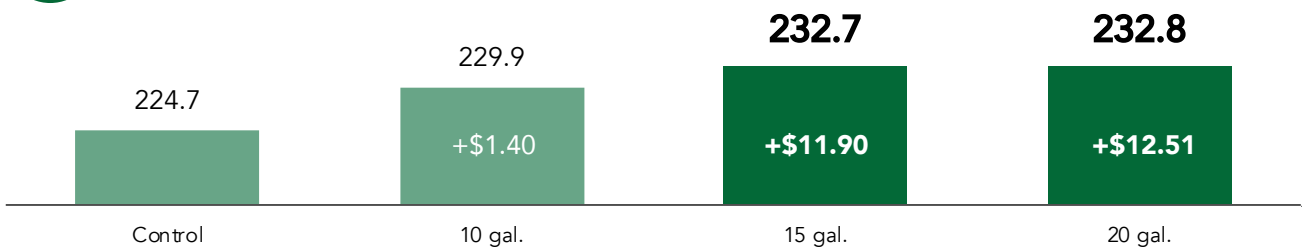
HOW MUCH CARRIER?

PFR data indicates that 15 to 20 gallons of carrier rate is the sweet spot. Always read and follow label directions.

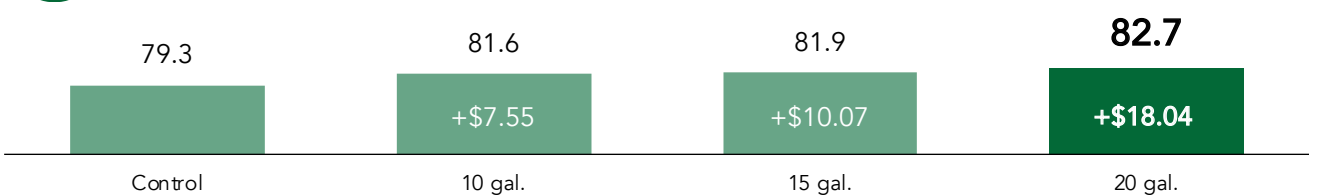
3-YEAR MULTI-LOCATION FUNGICIDE TIME OF DAY YIELD AVERAGE & ROI (8 A.M. VS. 3 P.M.)



3-YEAR MULTI-LOCATION FUNGICIDE CARRIER RATE YIELD AVERAGE & ROI



3-YEAR MULTI-LOCATION FUNGICIDE CARRIER RATE YIELD AVERAGE & ROI



FUNGICIDE PRACTICES



CAN ADJUVANTS AND SURFACTANTS PROVIDE SIMILAR BENEFITS IN A FUNGICIDE PASS?

The answer is simple, yes. Adjuvants are designed to reduce drift by improving spray pattern deposition, meaning more droplets contact the targeted plants. Surfactants work by lowering the surface tension between the spray droplet and plant surface, keeping droplets on the leaf surface longer, allowing more time for plant intake. Fungicides work best with maximum coverage and time, which means more of the spray solution can enter the plant, proving there is a benefit to adding an adjuvant and surfactant to maximize performance.

PRODUCTS	BRANDT® SUPER 7
CROP	Soybeans
PFR PROVEN ROI (\$/A.)	\$14.87
YIELD ADVANTAGE	1.7 Bu./A.
APPLICATION RATE & TIMING	6.4 oz. @ R3
YEARS TESTED	3
COMPANY	Brandt Consolidated, Inc.

PRODUCT DESCRIPTION

BRANDT® SUPER 7 FUNGICIDE ADJUVANT	BRANDT® Super 7 is a multi-functional, penetrating surfactant derived from non-ionic soy/lecithin. It effectively reduces spray drift by improving spray pattern deposition. It also lowers spray tank water pH, which protects pesticides sensitive to alkaline hydrolysis.
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SOYBEAN MULTI-YEAR YIELD ADVANTAGE

