

# RESEARCH FOR RESULTS



## Beck's Multi-State Biological Study – CORN – 2019

**OVERVIEW:** This trial evaluates different biological products, applied in-furrow, and their impact on yield and profitability.

**LOCATION:** Illinois, Iowa, Kentucky, Minnesota and Wisconsin at Beck's PFR testing locations.

**LOCATION SHOWN:** Wisconsin PFR; Multi-State PFR location aggregate results shown on page 2

**HYBRID:** BECK 5077V2Pbrand

**POPULATION:** 35,500 seeds/A.

**PLANTING DATE:** May 12, 2019

**HARVEST DATE:** October 23, 2019

**ROW WIDTH:** 30" rows

**PREVIOUS CROP:** Soybeans

**TILLAGE:** Fall – No-till; Spring – Field Cultivation

**SOIL:** Matherton (Silt Loam)

**HERBICIDE:** Pre: 1.5 qt. Acuron®, Post: 1 qt. Tomahawk® 4 and 2.5 oz. Status®

**INSECTICIDE:** Escalate®

**STARTER:** 5 gal. PureGrade® Diamond 6-24-6 in-furrow

**NITROGEN:** Total 190 units as UAN

**TREATMENTS:** Starter + the following products: SoilBiotics **SB4400**; SabrEx® for Corn IF; MycoApply® EndoPrime®; BRANDT® EnzUp® Zn

### WISCONSIN TRIAL DATA

In-Furrow Treatments	% Moisture	Bu/A.	Bu./A. Difference	ROI: Corn @ \$4.04/Bu.	Cost
Control: Starter (5 gal. 6-24-6)	21.8	257.4			
Starter + SoilBiotics <b>SB4400</b>	21.6	260.9	3.5+	\$4.73	\$75.28/gal
Starter + 1 qt. BRANDT® EnzUp® Zn	21.5	257.6	0.2+	(\$6.70)	\$30/gal
Starter + 1 oz. SabrEx® for Corn IF	21.9	255	2.4-	(\$15.55)	\$748.80/gal
Starter + 2 oz. MycoApply® EndoPrime®	21.6	255.6	1.8-	(\$18.28)	\$704/gal

In the Wisconsin trial, only SoilBiotics **SB4400** provided both a yield bump (3.5+) and a positive ROI over the control.

**MULTI-STATE AGGREGATE TRIAL DATA (IL,IA,KY,MN,WI)**

In-Furrow Treatments	% Moisture	Bu/A.	Bu/A. Difference	ROI: Corn @ \$4.04/Bu.	Cost
Control: Starter (5 gal. 6-24-6)	24.1	230.7			
Starter + SoilBiotics <b>SB4400</b>	24.2	233.5	2.8+	\$1.90	\$75.28/gal
Starter + 1 qt. BRANDT® EnzUp® Zn	24.3	232.5	1.8+	(\$0.23)	\$30/gal
Starter + 1 oz. SabrEx® for Corn IF	24.3	232.4	1.7+	\$1.02	\$748.80/gal
Starter + 2 oz. MycoApply® EndoPrime®	24.3	232.9	2.2+	(\$2.11)	\$704/gal

**SUMMARY:**

In a challenging year, SoilBiotics **SB4400** proved most effective in providing a positive increase in yield and significant increase in ROI.