



STARTER FERTILIZER STUDY

KENTUCKY

PURPOSE

To evaluate various soybean starter fertilizers, applied in-furrow, and their effects on yield and profitability.

OBSERVATION

When we think of starter fertilizers, we think of their ability to increase plant health early in the season. This plot was planted on June 2 and was up and out of the ground quickly. Starters did not impact emergence in this case and, in the end, they did not impact yield. With a later planting date leading to quick, uniform emergence in a field with high yield potential, it isn't surprising that yield gains were negligible in this study.

2017 RESULTS

BRAND	IN-FURROW TREATMENTS	PERCENT MOISTURE	BU./A.	BU./A. DIFFERENCE	RETURN ON INVESTMENT
437R4™	Control: No Starter	14.7	98.0	--	--
	2 gal. Sure-K®	14.9	98.6	+0.6	-\$6.13
	1 gal. n-crease™	15.0	97.8	-0.2	-\$19.46
	2 gal. First Pass® with MicroCarb ZMB™ (3-5-15)	14.8	96.9	-1.1	-\$26.87
	5 qt. Exude	15.0	96.6	-1.4	-\$40.46
4453X2	Control: No Starter	13.4	92.0	--	--
	2 gal. Sure-K®	13.7	91.0	-1.0	-\$21.79
	1 gal. n-crease™	13.4	90.5	-1.5	-\$32.18
	2 gal. First Pass® with MicroCarb ZMB™ (3-5-15)	13.6	90.3	-1.7	-\$32.74
	5 qt. Exude	13.3	91.8	-0.2	-\$28.71
2-Variety Average	Control: No Starter	14.1	95.0	--	--
	2 gal. Sure-K®	14.3	94.8	-0.2	-\$13.96
	1 gal. n-crease™	14.2	94.2	-0.8	-\$25.82
	2 gal. First Pass® with MicroCarb ZMB™ (3-5-15)	14.2	93.6	-1.4	-\$29.80
	5 qt. Exude	14.2	94.2	-0.8	-\$34.58

Soybeans \$9.79/Bu. Sure-K® \$6.00/gal. First Pass® with MicroCarb ZMB™ (3-5-15) \$8.05/gal. Exude \$21.40/gal. n-crease™ \$17.50/gal. Individual results may vary.

STUDY INFORMATION | Planted 6/2/2017 | Harvested 10/18/2017 | Population 140,000 Seeds/A. | Row Width 15 in. | Previous Crop Corn | Tillage Fall: In-Line Rip, Spring: Vertical-Till/Field Cultivation | Herbicides Post: 1.5 pt. Flexstar®, 0.3 oz. FirstRate®, 1 qt. Roundup PowerMAX®, 4.5 oz. Anthem® Maxx | Insecticides Escalate™ | Soil Type Patton (Silty Clay Loam) | Soil Test Values pH 6.4, O.M. % 3.2, CEC 11.6 | Percent Base Saturation Ca 69.1, Mg 19.1, K 1.4, H 10.4 | Parts Per Million P 16, K 65, S 5, Zn 2.1, Mn 38, B 0.4