

BECK'S Start Right & Over the Top Soybeans Study - 2014

PLANTED:	May 24, 2014	PREVIOUS CROP:	Com
HARVESTED:	October 23, 2014	TILLAGE:	Fall V-Rip, Spring S-Tine
POPULATION:	130,000 seeds/A.	HERBICIDE:	Pre: 4 oz. Authority® XL
ROWS:	Four 30" Rows		Post: 1 qt. Roundup PowerMAX®
REPLICATIONS:	Three (averaged)	INSECTICIDE:	Escalate™

PURPOSE:

To evaluate the use of Start Right in-furrow at planting and Over the Top Soybeans foliar at the R1 growth stage. Both products are manufactured by Agro Logic, LLC.

Start Right is a proprietary formulation of major and micronutrients sequestered in concentrated organic acids. It is fortified with proprietary plant extracts, enzymes and select soil bacteria. It is for use on all crops at planting or early sidedressing.

Over the Top Soybeans is a proprietary formulation of major and micronutrients sequestered in humic and fulvic acids. It is fortified with extracts of *Ascophyllum nodosum* and *Chondrus crispus*, enzymes, amino acids, and natural diterpenes. When used properly, components can enhance blooming and pod set on soybeans.

Brand	Emerged Population	Percent Moisture	Bushels [†] Per Acre	Bu./A. Difference	Net [‡] Return	Return on [°] Investment
BECK 335NR™						
Control	105,633	13.8	61.5	—	\$688.80	—
1 qt. Start Right In-Furrow	99,825	13.8	61.5	0.0	\$678.30	-\$10.50
1 qt. Over the Top Soybeans @ R1	104,544	13.7	66.5	+5.0	\$733.05	+\$44.25
1 qt. Start Right In-Furrow + 1 qt. Over the Top Soybeans @ R1	<u>89,661</u>	<u>13.5</u>	<u>63.3</u>	<u>+1.8</u>	<u>\$686.71</u>	<u>-\$2.09</u>
AVERAGE	99,916	13.7	63.2	+2.3	\$696.72	+\$10.55
BECK 375NR™						
Control	104,181	14.1	66.4	—	\$743.68	—
1 qt. Start Right In-Furrow	99,462	14.1	69.2	+2.8	\$764.54	+\$20.86
1 qt. Over the Top Soybeans @ R1	105,633	14.1	67.8	+1.4	\$747.61	+\$3.93
1 qt. Start Right In-Furrow + 1 qt. Over the Top Soybeans @ R1	<u>99,825</u>	<u>14.3</u>	<u>65.7</u>	<u>-0.7</u>	<u>\$713.59</u>	<u>-\$30.09</u>
AVERAGE	102,275	14.2	67.3	+1.2	\$742.36	-\$1.77
TREATMENT SUMMARY						
Control	104,907	14.0	64.0	—	\$716.24	—
1 qt. Start Right In-Furrow	99,644	14.0	65.4	+1.4	\$721.42	+\$5.18
1 qt. Over the Top Soybeans @ R1	105,089	13.9	67.2	+3.2	\$740.33	+\$24.09
1 qt. Start Right In-Furrow + 1 qt. Over the Top Soybeans @ R1	<u>94,743</u>	<u>13.9</u>	<u>64.5</u>	<u>+0.5</u>	<u>\$700.15</u>	<u>-\$16.09</u>
AVERAGE	101,096	14.0	65.3	+1.7	\$719.54	+\$4.39

[†]XL brand seed is distributed by Beck's Superior Hybrids, Inc. XL® is a registered trademark of Pioneer.

[‡]Bu./A. corrected to 13% moisture. [°]Net return is gross income (Bu./A. x \$11.20/Bu.) minus treatment cost. Return on investment is Bu./A. difference x \$11.20/Bu. minus treatment cost and application cost, if applicable. \$42.00/gal. Start Right and \$47.00/gal. Over the Top Soybeans.

Rainfall in inches					
APR	MAY	JUN	JUL	AUG	TOTAL
4.08	3.72	4.04	2.74	6.34	19.93

BECK'S Start Right & Over the Top Soybeans Study - Continued

SUMMARY:

We saw mixed results in this year's Start Right/Over the Top Soybeans Study. When applied to BECK 335NR™ soybeans, the Start Right application resulted in a \$10.50/A. loss, while the Over the Top treatment added \$44.25/A. to profits. Conversely, when applied to BECK 375NR™, the results were the opposite: with Start Right added \$20.86/A. to profits, and Over the Top Soybeans produced only \$3.93/A. in gains. We have used Start Right the past few years in corn with good results, and the average returns here show that it could be useful in soybeans as well. We look forward to testing these products in the future and building a long-term data set.

BECK'S GantecPro™ Study - 2014

PLANTED:	May 5, 2014	PREVIOUS CROP:	Corn
HARVESTED:	September 23, 2014	TILLAGE:	Fall Disc/V-Rip, Spring S-Tine
POPULATION:	130,000 seeds/A.	HERBICIDE:	Pre: 4 qt. Authority® XL
ROWS:	Four 30" Rows		Post: 1 qt. Roundup PowerMAX®
REPLICATIONS:	Two (averaged)	INSECTICIDE:	Escalate™
		PRODUCT TESTED:	BECK 233R4™

PURPOSE:

To evaluate the use of GantecPro in-furrow at planting and as a foliar application at the V3 growth stage.

GantecPro is a high performance product line that includes natural fertilizers, soil conditioners, and foliar adjuvants. The blend of plant-based extracts delivers a unique spectrum of bio-actives, resulting in higher yields and better growth in field crops, vegetables, and transplants. The concentrated formula requires very low application rates, making the benefits of GantecPro products easily accessible. GantecPro adjuvants improve the efficacy of fertilizers and chemicals, and allow for better results at lower rates.

Treatment	Percent Moisture	Bushels [†] Per Acre	Bu./A. Difference	Net [‡] Return	Return on [°] Investment
Control	12.9	70.5	---	\$789.60	---
4 oz. GantecPro In-Furrow	12.9	71.5	+1.0	\$787.49	-\$2.11
4 oz. GantecPro In-Furrow + 4 oz. GantecPro @ V3	<u>12.8</u>	<u>71.5</u>	<u>+1.0</u>	<u>\$774.18</u>	<u>-\$15.42</u>
AVERAGE	12.9	71.2	+1.0	\$783.76	-\$8.77

[†]XL brand seed is distributed by Beck's Superior Hybrids, Inc. XL® is a registered trademark of Pioneer.

[‡]Bu./A. corrected to 13% moisture. [°]Net return is gross income (Bu./A. x \$11.20/Bu.) minus treatment cost. [°]Return on investment is Bu./A. difference x \$11.20/Bu. minus treatment cost and application cost, if applicable. \$426.00/gal. GantecPro.

SUMMARY:

GantecPro positively increased yields by 1 Bu./A., showing that there is potential for this product. However, that meager yield increase was not enough to offset the cost of the product, resulting in a return on investment of -\$8.77/A. It would be interesting to see if GantecPro would produce better yields in less ideal growing conditions. The steady rains and general good weather that we saw here in Central Indiana may have caused plants to have minimal need for the nutrients that GantecPro provided.