

BECK'S 300 Bushel Attempt - 2014

PLANTED:	April 22, 2014	PREVIOUS CROP:	Soybeans/Corn
HARVESTED:	September 26, 2014	TILLAGE:	Fall Disc/V-Rip, Spring S-Tine
POPULATION:	37,000 seeds/A.	HERBICIDE:	Pre: 1 qt. Princep® 4L, 2.3 qt. Bicep II Magnum®
ROWS:	Four 30' Rows	Post: 1.7 qt. Lexar®, 1 qt. Roundup PowerMAX®	
		INSECTICIDE:	Escalate™, Force® 3G

PURPOSE:

In our attempt to reach 300 Bu./A., we have tried several different approaches in the past 34 years. Early on, we increased our populations and applied extremely high rates of fertilizer as well as some micronutrients. In the mid to late 80s, we tried using different tillage methods like v-rip, chisel and moldboard plow. From 1991 to 2002, we tested zone-till vs. conventional-till. In 2003, we tested ultra-high populations and twin rows using conventional-till practices. From 2004 to 2013, we compared different crop rotations including continuous corn, two-year corn/one-year soybean and corn/soybean rotations. In 2014, we planted 30 in. rows in both the first year corn following soybean rotation and the 14-year continuous corn.

Brand	Harvested Population	Test [†] Weight	Percent Broken Stalks	Percent Root Lodging	Percent Moisture	Bushels [†] Per Acre
CORN AFTER SOYBEANS						
Phoenix 6542A4™	36,000	57.6	0.0	0.0	29.5	313.4
BECK EX 8361 (6347 Genetics)	36,000	59.0	1.4	0.0	28.0	304.2
BECK 6272AM-R™	36,500	61.7	0.0	2.7	26.7	292.9
BECK 6175AMXT™	37,000	59.7	0.0	0.0	25.3	288.8
BECK 5828AMX™	36,500	57.6	0.0	0.0	24.2	286.4
BECK 6626AMX-R™	34,500	62.2	0.0	2.9	28.8	285.1
BECK EX 1420 (5939 Genetics)™	35,000	58.0	0.0	0.0	24.1	284.1
Phoenix 5552EZ™	37,000	57.1	0.0	0.0	26.4	282.7
BECK 5509A3	36,500	56.5	2.7	0.0	25.5	281.4
BECK EX 1434 (6365 Genetics)™	37,000	58.4	0.0	0.0	28.1	280.2
AVERAGE	36,200	58.8	0.4	0.6	26.7	289.9

300 BUSHEL RECIPE

PLANTING: 17 gal. 18-18-0-3S + 1 qt. Start Right 2x2 & 5 gal. 6-24-6 + 22 oz. P Max™ LFS In-Furrow

SIDEDRESS: 150 lb. Nitrogen @ V3 & 113 lb. Nitrogen @ V6

FOLIAR: 1 qt. Versa Max™ Corn + 4 oz. Priaxor™ @ V5 & 10 oz. Headline AMP® + 3.2 oz. Mustang® Maxx @ VT



Harvesting the 30 in. row 300 bushel plot.

BECK'S 300 Bushel Attempt - Continued

Brand	Harvested Population	Test [†] Weight	Percent Broken Stalks	Percent Root Lodging	Percent Moisture	Bushels [†] Per Acre
14-YEAR CONTINUOUS CORN						
BECK EX 1434 (6365 Genetics) [™]	36,750	57.7	0.0	0.0	27.4	312.8
Phoenix 6542A4 [™]	34,500	57.4	0.0	0.0	29.7	301.3
BECK 6175AMXT [™]	36,250	60.5	0.0	0.0	24.9	294.4
BECK 5509A3	35,750	54.9	0.0	0.0	25.6	293.3
BECK 6626AMX-R [™]	35,500	61.7	0.1	0.0	28.5	290.1
BECK 5828AMX [™]	36,500	57.1	0.0	0.0	24.7	286.5
BECK EX 8361 (6347 Genetics)	34,750	60.3	0.0	0.0	27.6	285.4
BECK EX 1420 (5939 Genetics) [™]	34,750	58.8	0.0	0.0	24.6	273.7
AVERAGE	35,594	58.6	0.1	0.0	26.6	292.2

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

[†]Phoenix[®] brand seed is distributed by Beck's Superior Hybrids, Inc. Phoenix[®] is a registered trademark of a Syngenta Group Company.

[†]Bu./A. and test weight corrected to 15% moisture.

SUMMARY:

This year we looked at different timings and treatments: four products at planting, two sidedress timings and two foliar applications. The goal was to keep the plant as healthy and as disease/insect free as possible. Also with the split nitrogen applications, the availability of nitrogen to the plant season-long was increased. On average, yields in 2014 out-yielded 2013 by more than 32 Bu./A.

The additional applications along with the great weather conditions set the stage to break 300 Bu./A. Three diverse genetics rose to the top: BECK EX 8361 (6347 Genetics) and Phoenix 6542A4[™] broke 300 Bu./A. in the first year corn following soybean rotation and BECK EX 1434 (6365 Genetics)[™] and Phoenix 6542A4[™] both beat the 300 Bu./A. level in the 14-year continuous corn section. The CAC section on average produced 2.3 Bu./A. more than the CAB section. However, we believe water damage may have been more significant in the CAB section, which could have caused these differences.

