

BECK'S Zone-Till vs. Conv.-Till Continuous Corn Study – 2010

(Also Fungicide Trial Study)

Location: E5 (S) & E6 (S) plots
Planted: May 15, 2010
Harvested: September 10, 2010
Rows: Four 30" rows
Soil Type: Crosby / Miami
Population: 35,674 seeds/A.

Tillage: Various
Herbicide: 2.3 qts. Bicep II Magnum
 1 qt. Princep
 1.67 qts. Lexar
Insecticide: As Needed Force 3G
Fungicide: 6 oz. Headline

RAINFALL	
April	2.1 in.
May	4.5 in.
June	11.5 in.
July	4.2 in.
August	3.0 in.
Total	25.3 in.

Purpose: This study is similar to our long-term zone-till vs. conventional-till study on the previous page except this is continuous corn. It also analyzes the effects of fungicide application on each tillage method.

Brand	Notes	Harvested Population	Test [†] Weight	Percent Broken Stalks	Percent Moisture	Bushels [†] Per Acre	Bu./A. Advantage for Headline	\$ Return [^] per Acre
ZONE-TILL STUDY								
BECK 5435HXR™*	Headline @ Tassel	34,500	61.9	1.6	15.3	193.9		
BECK 6179VT3	Headline @ Tassel	32,000	57.5	0.0	16.8	188.5		
BECK 5887HXR™*	Headline @ Tassel	33,000	57.3	0.0	19.1	185.2		
BECK 5377HR™*	Headline @ Tassel	<u>35,000</u>	<u>57.6</u>	<u>0.0</u>	<u>15.4</u>	<u>166.1</u>		
	AVERAGE	33,625	58.6	0.4	16.7	183.4	+0.8	\$ 662.96
BECK 5377HR™*		35,500	53.8	0.0	15.2	196.0		
BECK 6179VT3		33,500	56.4	0.0	16.9	179.0		
BECK 5435HXR™*		29,500	60.1	0.0	16.1	178.3		
BECK 5887HXR™*		<u>32,000</u>	<u>57.3</u>	<u>0.0</u>	<u>17.7</u>	<u>176.9</u>		
	AVERAGE	32,625	56.9	0.0	16.5	182.6		\$ 683.02
ZONE-TILL AVERAGE		33,125	57.8	0.2	16.6	183.0		
CONVENTIONAL-TILL STUDY								
BECK 6179VT3	Headline @ Tassel	32,500	57.2	0.0	18.9	239.1		
BECK 5887HXR™*	Headline @ Tassel	33,000	60.5	0.0	18.4	236.8		
BECK 5435HXR™*	Headline @ Tassel	34,500	61.4	0.0	16.8	217.3		
BECK 5377HR™*	Headline @ Tassel	<u>35,500</u>	<u>56.7</u>	<u>0.0</u>	<u>16.5</u>	<u>211.6</u>		
	AVERAGE	33,875	59.0	0.0	17.7	226.2	+16.7	\$ 813.66
BECK 6179VT3		33,000	58.6	0.0	17.1	226.2		
BECK 5887HXR™*		35,000	58.4	0.0	18.5	210.1		
BECK 5435HXR™*		35,000	61.7	0.0	16.4	204.3		
BECK 5377HR™*		<u>35,000</u>	<u>57.5</u>	<u>1.4</u>	<u>15.2</u>	<u>197.4</u>		
	AVERAGE	34,500	59.1	0.4	16.8	209.5		\$ 781.01
CONVENTIONAL-TILL AVERAGE		34,188	59.1	0.2	17.3	217.9		

[†]Bushels per acre and test weight corrected to 15% moisture.

* XL™ brand seed is distributed by Beck's Superior Hybrids, Inc. ™XL is a trademark of Pioneer Hi-Bred.

[^]Net Return is based on \$3.80/Bu. corn price, \$5.50/A. application costs and Headline cost of \$16.41/A.

Tillage Summary: With adequate amounts of rain in the first half of the season, the conventional-till method out yielded zone-till by 34.9 Bu./A., which follows trends we saw when we first began this continuous corn rotation.

Fungicide Summary: In the zone-till continuous corn portion of this plot, three of the four hybrids responded well to the application of Headline. However, after averaging all four hybrids and taking out chemical and application costs, not applying Headline netted us an additional \$20.06/A.. However, since the only hybrid to yield less was 5377HR™ which showed a 30 Bu./A. lower yield with Headline, we think that there were other factors affecting its performance. Headline actually gave an average positive ROI of \$42.30 when comparing the other three hybrids.

All hybrids in the conventional-till study showed a positive response to the Headline applications, so much so that this entire plot gave us a \$32.65/A. advantage, including chemical and application costs.