

## BECK'S Strip-Till vs. Conventional-Till Corn after Soybeans and Corn after Corn Study – 2007

<b>Location:</b>	B2-B3 plot	<b>Previous Crop:</b>	Various	<b>RAINFALL</b>	
<b>Planted:</b>	April 20, 2007	<b>Tillage:</b>	Various	April	2.88 in.
<b>Harvested:</b>	September 14, 2007	<b>Herbicide:</b>	Pre: 2.1 qts. Bicep II Magnum	May	1.12 in.
<b>Soil Type:</b>	Clay Loam		1 qt. Princep	June	4.14 in.
<b>Population:</b>	35,000 seeds/A.		Post: 1.67 qts. Lexar	July	1.85 in.
<b>Rows:</b>	Four 30" rows		8 oz. Stinger	August	<u>5.68 in.</u>
<b>Replications:</b>	Three	<b>Insecticide:</b>	None	Total	15.67 in.

**Purpose:** Strip-Till has become of interest to many farmers that want to reduce tillage and focus on the fertility in the zone where the crop is growing. This study compares strip-till to conventional-till in both corn after corn and corn after soybean environments. In the future, we plan to apply banded fertilizer in the strip-till zone at full and reduced rates to compare to full rates in the conventional-till area.

### CORN AFTER SOYBEANS

Yield Rank	Brand	Harvested Population	Test* Weight	Percent Moisture	Bushels* Per Acre
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#### STRIP-TILL

1	BECK 5555CBRWRR	30,000	52.6	15.1	235.1
2	BECK 5616CBRWRR	28,000	51.9	16.5	229.0
3	BECK 5444CBRWRR	25,667	53.6	17.2	224.6
4	BECK EX 2780CBRWRR (5684VT3 Genetics)	<u>32,667</u>	<u>52.0</u>	<u>14.5</u>	<u>221.4</u>
	AVERAGE	29,083	52.5	15.9	227.5

#### CONVENTIONAL-TILL

1	BECK 5555CBRWRR	29,667	55.9	23.2	214.0
2	BECK 5444CBRWRR	23,667	55.8	23.5	210.3
3	BECK 5616CBRWRR	27,500	55.3	24.8	208.9
4	BECK EX 2780CBRWRR (5684VT3 Genetics)	<u>26,667</u>	<u>55.3</u>	<u>22.9</u>	<u>204.1</u>
	AVERAGE	26,875	55.6	23.6	209.3

### CORN AFTER CORN

Yield Rank	Brand	Harvested Population	Test* Weight	Percent Moisture	Bushels* Per Acre
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#### STRIP-TILL

1	BECK 5616CBRWRR	25,833	54.7	25.8	216.5
2	BECK 5555CBRWRR	25,667	56.1	24.6	216.0
3	BECK 5444CBRWRR	26,167	54.9	22.7	208.8
4	BECK EX 2780CBRWRR (5684VT3 Genetics)	<u>29,333</u>	<u>53.8</u>	<u>22.0</u>	<u>207.1</u>
	AVERAGE	26,750	54.9	23.8	212.4

#### CONVENTIONAL-TILL

1	BECK 5444CBRWRR	25,667	55.2	23.9	219.2
2	BECK 5555CBRWRR	25,500	55.6	22.9	214.4
3	BECK 5616CBRWRR	25,500	54.4	23.9	201.5
4	BECK EX 2780CBRWRR (5684VT3 Genetics)	<u>29,833</u>	<u>53.8</u>	<u>22.9</u>	<u>188.1</u>
	AVERAGE	26,625	54.8	23.4	205.8

\*Bushels per acre and test weight corrected to 15% moisture. Special thanks to Tom Boyer for the use of his strip-till equipment.

**Summary:** This first year of testing produced a consistent pattern of higher yields in the strip-till areas. It is too early to determine if the yield differences are significant and can be replicated over multiple years.

One of the lessons learned is the importance of using auto-guide technology with strip-till. Many of the areas strip-tilled in the fall were difficult to distinguish at planting time due to weathering and residue movement back into the strips.