

BECK'S VT3 vs. Herculex Technology Study – 2007

Rows: Four 30" rows
Population: 33,674 seeds/A.
Soil Type: Clay Loam

Herbicide: PPI: 2.1 qts. Bicep II Magnum
 1 qt. Princep
 Post: 1.67 qts. Lexar
Insecticide: Force 3G where noted

RAINFALL	
April	2.88 in.
May	1.12 in.
June	4.14 in.
July	1.85 in.
August	<u>5.68 in.</u>
Total	15.67 in.

Purpose: This study compares the latest rootworm and corn borer resistance technologies of Monsanto (VT3), Dow AgroSciences (Herculex XTRA), as well as Force 3G, a granular insecticide from Syngenta, at three different locations at Beck's Atlanta Practical Farm Research Center.

Location: A4 plot
Planted: April 23, 2007
Harvested: September 6, 2007

Previous Crop: Corn
Tillage: Zone-Till

Yield Rank	Brand	Granular Insecticide	Harvested Population	Test* Weight	Percent Broken Stalks	Percent Moisture	Bushels* Per Acre
1	BECK 5444VT3	----	28,000	56.3	5.6	28.1	224.0
2	BECK 5616VT3	----	29,500	55.5	0.0	25.6	211.9
3	Pioneer 34A20 (HXTRR)	----	33,250	57.8	9.9	26.3	208.3
4	BECK 5316Hx1RR	Force 3G	31,500	55.1	3.2	28.2	205.3
5	BECK EX 4771 (HXTRR)	----	32,500	53.7	2.4	26.1	204.8
6	BECK 5444CBRR	Force 3G	29,750	56.7	10.2	29.9	198.4
7	BECK 5444CBRR	----	<u>24,750</u>	<u>55.8</u>	<u>3.0</u>	<u>27.7</u>	<u>195.6</u>
	AVERAGE		29,893	55.8	4.9	27.4	206.9

Location: US 31 plot
Planted: April 21, 2007
Harvested: September 19, 2007

Previous Crop: Soybeans
Tillage: Zone-Till

Yield Rank	Brand	Granular Insecticide	Harvested Population	Test* Weight	Percent Broken Stalks	Percent Moisture	Bushels* Per Acre
1	BECK 5444VT3	----	30,500	56.6	0.0	22.8	229.5
2	BECK EX 4771 (HXTRR)	----	31,000	55.7	0.0	24.2	225.4
3	BECK 5444CBRR	Force 3G	27,250	56.4	0.0	23.3	217.4
4	BECK 5616VT3	----	31,500	55.4	0.0	22.9	210.1
5	BECK 5444CBRWRR	----	31,000	56.2	0.0	22.4	207.0
6	BECK 5316Hx1RR	Force 3G	32,000	54.6	1.5	22.6	205.4
7	Pioneer 34A20 (HXTRR)	----	<u>31,250</u>	<u>57.0</u>	<u>0.0</u>	<u>22.5</u>	<u>204.5</u>
	AVERAGE		30,643	56.0	0.2	22.9	214.2

Location: Arcadia South plot
Planted: April 23, 2007
Harvested: October 19, 2007

Previous Crop: Wheat
Tillage: Plow / S-tine

Yield Rank	Brand	Granular Insecticide	Harvested Population	Test* Weight	Percent Broken Stalks	Percent Moisture	Bushels* Per Acre
1	BECK 5444VT3	----	30,500	57.5	3.3	19.0	211.6
2	BECK 5444CBRR	Force 3G	28,500	57.9	1.8	18.7	209.9
3	BECK 5444CBRR	----	28,000	57.8	0.0	19.5	203.6
4	BECK 5316Hx1RR	Force 3G	29,000	56.4	1.7	18.7	191.2
5	BECK 5616VT3	----	28,500	57.7	0.0	18.3	190.2
6	BECK EX 4771 (HXTRR)	----	26,500	56.7	5.7	18.4	185.0
7	Pioneer 34A20 (HXTRR)	----	<u>27,500</u>	<u>58.7</u>	<u>0.0</u>	<u>18.4</u>	<u>166.1</u>
	AVERAGE		28,357	57.5	1.8	18.7	193.9

BECK'S VT3 vs. Herculex Technology Study – Continued

Summary of All Three Locations

Yield Rank	Brand	Granular Insecticide	Harvested Population	Test* Weight	Percent Broken Stalks	Percent Moisture	Bushels* Per Acre
1	BECK 5444VT3	----	29,667	56.8	3.0	23.3	221.7
2	BECK 5444CBRR	Force 3G	28,500	57.0	4.0	24.0	208.6
3	BECK EX 4771 (HXTRR)	----	30,000	55.4	2.7	22.9	205.1
4	BECK 5616VT3	----	29,833	56.2	0.0	22.3	204.1
5	BECK 5316Hx1RR	Force 3G	30,833	55.4	2.1	23.2	200.6
6	BECK 5444CBRR	----	26,375	56.8	1.5	23.6	199.6
7	Pioneer 34A20 (HXTRR)	----	<u>30,667</u>	<u>57.8</u>	<u>3.3</u>	<u>22.4</u>	<u>193.0</u>
	AVERAGE		29,411	56.5	2.4	23.1	204.7

*Bushels per acre and test weight corrected to 15% moisture.

Summary: With little to no corn rootworm pressure in these plots, yield differences are mostly due to genetic potential, with the "44" family taking the top positions as expected. The one exception is with BECK 5444CBRR without soil insecticide.

BECK'S Corn Rootworm Control Study – 2007

Location: A7 plot
Planted: April 19, 2007
Harvested: September 11, 2007
Population: 33,674 seeds/A.
Rows: Four 30" rows
Previous Crop: Corn

Tillage: Zone-Till
Herbicide: PPI: 2.1 qts. Bicep II Magnum
 1 qt. Princep
 Post: 1.67 qts. Lexar
 8 oz. Stinger
Insecticide: Force 3G where noted

RAINFALL	
April	2.88 in.
May	1.12 in.
June	4.14 in.
July	1.85 in.
August	<u>5.68 in.</u>
Total	15.67 in.

Purpose: This study evaluates the corn rootworm control options of YieldGard Rootworm, Poncho 1250 and Force granular insecticide.

Brand	Corn Rootworm Control Method	Harvested Population	Test* Weight	Percent Moisture	Bushels* Per Acre
BECK 5444RR	Force 3G	24,250	53.9	23.5	201.2
BECK 5444CBRWRR	YieldGard RW Trait	24,000	53.3	21.4	200.4
BECK 5444RR	Poncho 1250	24,250	53.6	22.1	200.3
BECK 5444RWRR	YieldGard RW Trait	24,500	54.1	22.1	200.0
BECK 5444RR	None	26,750	53.6	23.6	195.9
BECK 5444CBRR	Force 3G	27,250	53.5	21.8	194.4
BECK 5444VT3	YieldGard VT Trait	<u>26,500</u>	<u>53.4</u>	<u>22.2</u>	<u>193.4</u>
	AVERAGE	25,357	53.7	22.4	197.9

*Bushels per acre and test weight corrected to 15% moisture.

Summary: We dug roots and did evaluations in July and found minimal feeding damage from corn rootworm larvae in this continuous corn study. With the lack of any significant corn rootworm feeding, we saw minimal yield differences between the various forms of rootworm control. We found only 7.8 bushel difference between the highest and lowest yielding rootworm control methods with no consistent pattern that showed an advantage of one method over another.

"I am planting 100% Beck's next year. I have never been this happy with any company's product like I am with Beck's. The BECK 5112CBRWRR, BECK 5228CBRWRR and BECK 5244CBRWRR were just outstanding at 180 Bu./A. at 15% moisture right out of the field."

Mark Patrick
 Ossian, IN