

On-Farm Comparison Results

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Nebraska Soybean & Feed Grains Profitability Project

Year: 2003-2005

Title: Genetically Modified Hybrid vs. Isoline Hybrids

Crop: Corn

NSFGPP Operator: Vernon Brandert, Dodge County

Private Industry Cooperator: Jerry Mulliken

Objective: To determine and document the effect of using genetically modified hybrids on the profitability of producing corn following soybeans.

Treatments: A non-Bt Corn Rootworm Hybrid vs. a Bt Corn Rootworm Hybrid of the same genetics in 2003 and 2004. Poncho 250 seed treatment on both hybrids in 2004. Non-Roundup Ready Isoline vs. Roundup Ready Hybrid both with YieldGard in 2005.

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Results: 2003

<u>Variable</u>	<u>Hybrid</u>		<u>Prob> T/</u>
	<u>DKC60-17RR</u> <u>Non-Bt</u>	<u>DKC60-12CR</u> <u>Bt</u>	
Yield, bu/ac at 15.5%	224	217	0.002 ***
Moisture, %	18.5	18.3	0.047 **
Test Wt., lbs/bu.,	57.4	57.2	0.422 ns
Pop., 1000 plants/ac	28.5	29.1	0.275 ns
Cost/ac	\$0	\$7.87	-----

No difference in root ratings

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Results: 2004

Hybrid

<u>Variable</u>	<u>DKC60-15</u>		<u>Prob>/T/</u>
	<u>Non-BT</u>	<u>BT</u>	
Yield, bu/ac at 15.5%	227	228	0.705 ns
Moisture, %	16.5	16.3	0.390 ns
Test Wt., lbs/bu.,	56.6	56.5	0.752 ns
Cost/ac	0	\$15.33	

Results: 2005

Hybrid

<u>Variable</u>	<u>DK60-16</u>		<u>Prob>/T/</u>
	<u>Non-RR</u>	<u>RR</u>	
Yield, bu/ac at 15%	219	214	0.003 ***
Moisture, %	14.6	14.5	0.466 ns
Cost/ac	0	\$11.00	

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Summary: In 2003, the use of a Bt Hybrid resulted in lower yield and drier grain at harvest. Yield, grain moisture at harvest and test weight were not affected by YieldGard in 2004. In 2005, Roundup Ready Hybrid yielded significantly less than the non-Roundup Ready Isoline.