

On-Farm Comparison Results

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Nebraska Soybean & Feed Grains Profitability Project

Year: 2003-2004

Title: Corn Rootworm Resistant Hybrids

Crop: Corn

NSFGPP Operator: Gary and Vaden Hellerich, Saunders County

Private Industry Cooperator: Earle Raun

Objective: To determine and document the effect of using a corn rootworm resistant hybrid vs. the same hybrid without corn rootworm gene at two populations on the profitability of corn production.

Treatments:

2003: GH 8906 vs. GH 8895 CW

2004: Two hybrids at 19,200 & 24,000 seeds per acre

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Results: 2003

<u>Variable</u>	<u>GH 8906</u>	<u>GH 8895CW</u>	<u>Prob>/T/</u>
Yield, bu/ac at 15.5%	30	33	0.008 ***
Moisture, %	18.0	17.1	0.024 **
Cost/ac	\$36.49	\$49.14	

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Results: 2004 Hybrid (Midwest 7704) vs. CRW Hybrid (Midwest 7X088)

<u>Treatment</u>	<u>Yield, bu/ac</u> <u>at 15%</u>	<u>Moisture</u> <u>%</u>	<u>Cost</u> <u>\$/ac</u>
No CRW @19,200	194	14.5	\$27.36
No CRW @24,000	197	13.9	\$34.20
CRW @19,200	183	14.5	\$38.40
CRW @24,000	191	13.9	\$48.00

Statistical Analysis: (Prob >F)

Hybrid (H)	<.0001 ***	0.3728 ns
Planting Rate (P)	0.0001 ***	<.0001 ***
HXP	0.0539 *	0.8562 ns

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Summary: The use of a YieldGard Hybrid resulted in significantly higher yield and lower grain moisture at harvest when compared to the non-transgenic isolate in 2003. The 2003 growing season was very dry. In 2004, the rootworm resistant hybrid yielded less than the non-resistant strain. Increasing planting rate increased grain yield, especially with the resistant hybrid. Increased planting rate also resulted in reduced moisture at harvest.