

On-Farm Comparison Results Stewart

FINAL

Nebraska Soybean & Feed Grains Profitability Project

FINAL

Years:	2008-2010
Title:	Insect Resistant Hybrids
Crop:	Corn
NSFGPP Operator:	Jim & Mike Stewart, Lancaster County
Private Industry Cooperator:	Keith Glewen
Objective:	To determine & document the effect of growing corn hybrids with insect tolerant traits on the profitability of producing corn in rotation with soybeans.
Treatments:	No insect resistant hybrid Corn borer resistant hybrid Borer & rootworm resistant hybrid

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Results: 2008

Insect Resistance

<u>Variable</u>	Insect Resistance			<u>Prob >F</u>
	<u>GH8852GT</u>	<u>GH8952(CBLL)</u>	<u>GH8953(CBLLRW)</u>	
	<u>None</u>	<u>Borer</u>	<u>Borer & Rootworm</u>	
Yield, bu/ac @ 15.5%	148	157 *	150	0.143 ns
Moisture, %	20.4	20.5	20.9 *	0.090 *
Test Wt, lbs/bu	54.8	54.3	53.4 **	0.004 ***
Plants, 1000/ac	25.0	25.5	24.6	0.415 ns
Cost/ac	\$40.35	\$38.46	\$48.13	

Planting Date: 5/5/08

Harvesting Date: 10/2/08

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Results: 2009

Insect Resistance

<u>Variable</u>	(9014GT)	(9014GTCBLL)	(90143000GT)	<u>Prob >F</u>
	<u>None</u>	<u>Borer</u>	<u>Borer & Rootworm</u>	
Yield, bu/ac @ 15.5%	155 **	162	162	0.0551 *
Moisture, %	17.9	18.0	18.2	0.1739 ns
Test Wt, lbs/bu	57.6	57.2	57.6	0.2467 ns
Plants, 1000/ac	23.6	22.8	23.4	0.5736 ns
Cost/ac	\$46.13	\$49.50	\$59.85	

Planting Date: 4/23/09

Harvesting Date: 10/5/09

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Results: 2010

Insect Resistance

<u>Variable</u>	(9014GT)	(9014GTCBLL)	(90143000GT)	<u>Prob >F</u>
	<u>None</u>	<u>Borer</u>	<u>Borer & Rootworm</u>	
Yield, bu/ac @ 15.5%	157	152	157	0.707 ns
Moisture, %	19.5	19.5	19.5	0.923 ns
Test Wt, lbs/bu	54.7	54.6	54.4	0.419 ns
Plants, 1000/ac	26.3	26.4	26.6	0.911 ns
Cost/ac	\$52.40	\$56.24	\$68.00	

Planting Date: 4/17/10

Harvesting Date: 9/20/10

Summary: Results for 2008 are quite variable; thus, minimal effects were detected. The corn borer/rootworm hybrid had slightly wetter grain at harvest and slightly lower test weight. Results for 2009 show that the non-Bt corn had a significantly lower yield than the Bt hybrids. In 2010, results were variable, thus no differences due to treatment were detected.

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