



On-Farm Comparison Results

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Years: 2001 - 2002

Title: Controlling Seedling Insects

Crop: Corn

NSFGPP Operator: Vernon Brandert, Dodge County

Private Industry Cooperator: Jerry Mulliken

Objective: To determine and document the effect of controlling seedling insects on the profitability of producing corn

Treatments: 2001 - Tillage early vs. late and planting with non-treated seed vs. Gaucho-treated seed.
2002 – No Till vs. Tillage and planting with non-treated seed vs. Gaucho-treated seed.



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Costs:	2001	Early till/Non-treated seed	
		Field cultivate,	\$ 7.00/ac
		Asgrow Rx601RYG	<u>36.86/ac</u>
		Total	\$43.86/ac
		Early till/Gaucho treated seed	
		Field cultivate	\$ 7.00/ac
		Asgrow Rx60 RYGaucho	<u>39.69/ac</u>
		Total	\$46.69/ac
		Late till/Non-treated seed	
		Asgrow Rx601 RYG	\$ 36.86/ac
		Late till/Gaucho-treated seed	
		Asgrow Rx60 RYGaucho	\$ 39.69/ac



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Results: 2001

<u>Treatment</u>	<u>Yield, bu/ac</u> <u>At 15.5%</u>	<u>Moisture,</u> <u>%</u>	<u>Test Wt,</u> <u>lbs/bu</u>	<u>Plants,</u> <u>1000/ac</u>
Early till/NT Seed	186	14.5	58.6	22.7
Early till/Gauche Seed	197	14.7	58.9	24.7
Late till/NT Seed	188	14.6	58.6	23.7
Late till/Gauche Seed	197	14.7	59.0	25.4

Statistical Analysis: (Prob > F)

Tillage (T)	0.594 ns	1.000 ns	0.438 ns	0.113 ns
Seed Treat (S)	0.0001***	0.044**	0.008**	0.027**
TXS	0.489 ns	0.773 ns	1.000 ns	0.820 ns



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Costs: 2002 No-till/Non-treated seed

Asgrow YRX601RRYG	<u>36.23/ac</u>
Total	\$36.23/ac

No-till/Gauche treated seed

Asgrow YRX601RRYG w/Gauche	<u>39.24/ac</u>
Total	\$39.24/ac

Tilled/Non-treated seed

Field cultivate	\$ 7.00/ac
Asgrow YRX601RRYG	<u>36.23/ac</u>
Total	\$43.23/ac

Tilled/Gauche-treated seed

Field cultivate	\$ 7.00/ac
Asgrow YRX601RRYG	<u>39.24/ac</u>
Total	\$46.24/ac



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Results: 2002

<u>Treatment</u>	<u>Yield, bu/ac</u> <u>At 15.5%</u>	<u>Moisture,</u> <u>%</u>	<u>Test Wt,</u> <u>lbs/bu</u>	<u>Plants,</u> <u>1000/ac</u>
No till/NT Seed	189	18.2	57.5	23.3
No till/Gaucha Seed	194	18.3	57.4	22.1
Tilled/NT Seed	195	18.1	57.6	24.9
Tilled/Gaucha Seed	200	17.8	57.5	26.9

Statistical Analysis: (Prob > F)

Tillage (T)	0.030 **	0.138 ns	0.218 ns	0.001 ***
Seed Treat (S)	0.002 ***	0.627 ns	0.317 ns	0.678 ns
TXS	0.842 ns	0.288 ns	0.937 ns	0.1001 ns



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Summary: The use of Gaucha treated seed in 2001 resulted in a slightly higher plant density, higher grain yield, slightly wetter grain at harvest, and slightly higher test weight than with non-treated seed. Time of tillage had no effect. In 2002, tillage increased grain yield and plant population significantly. Gaucha increased grain yield with and without tillage.