

On-Farm Comparison Results RAIKES/BULLER

Nebraska Soybean & Feed Grains Profitability Project

<i>Years:</i>	2004-2006
<i>Title:</i>	Residue Management
<i>Crop:</i>	Corn
<i>NSFGPP Operator:</i>	Ron Raikes/Lonnie Buller, Saunders County
<i>Private Industry Cooperator:</i>	Rob Nielsen & Mark McKenzie
<i>Objective:</i>	To determine & document the effect of removing crop residue approximately two weeks before planting on the profitability of corn production. Ridge-till operation.
<i>Treatments:</i>	Planting through soybean residue vs. planting where residue was removed in 2004. Soybean & corn residues were studied in 2005. In 2006, soybean residue was removed on 1/25/06 & corn was planted on 4/14/06.

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Results: 2004 Soybean Residue (Pio 33N42)

<u>Variable</u>	<u>Residue</u>	<u>Cleaned</u>	<u>Prob >/T/</u>
Yield, lbs/ac @ 15.5%	232	235	0.596 ns
Moisture, %	16.1	16.0	0.374 ns
Plants, 1000/ac	30.7	31.2	0.176 ns
Cost/ac	---	\$3.00	---
<u>Soil temp, 9 am @ 4"</u>			
4/21/04 (planted)	56 °F	60 °F	---
5/03/04	53 °F	52 °F	---
5/06/04	67 °F	67 °F	---

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Results: 2005 Soybean Residue (Pio 32P267)

<u>Variable</u>	<u>Residue</u>	<u>Cleaned</u>	<u>Prob >/T/</u>
Yield, lbs/ac @ 15.5%	224	221	0.1268 ns
Moisture, %	14.5	14.6	0.2956 ns
Cost/ac		\$3.00	

2005 Corn Residue (Pio 33N42)

<u>Variable</u>	<u>Residue</u>	<u>Cleaned</u>	<u>Prob >/T/</u>
Yield, lbs/ac @ 15.5%	221	230	0.0162 **
Moisture, %	14.5	14.6	0.1108 ns
Cost/ac		\$3.00	

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Nebraska Soybean & Feed Grains Profitability Project

Results: 2006 Soybean Residue (Pioneer 33R7)

<u>Variable</u>	<u>Residue</u>	<u>Cleaned</u>	<u>Prob >/T/</u>
Yield, lbs/ac @ 15.5%	232	229	0.673 ns
Moisture, %	27.0	26.7	0.480 ns
Cost/ac	---	\$3.00	---

Planting Date: 4/14/06

Harvesting Date: 9/15/06

Summary: Pre-cleaning of rows prior to planting into soybean residue had no effect on the growth & yield of corn in 2004, 2005, or 2006. Pre-cleaning of rows of corn residue prior to planting in 2005 resulted in increased corn yield.