



Nebraska On-Farm Research Network

Years: 2001

Title: Planting Speed Impact on Crop Yield

Crop: Corn

Study ID: 102023200102

County: Butler

Objective: To determine and document the effect of planter speed operation using three speeds and two hybrids on the yield and profitability of producing corn

Treatments: 2001 – Two seed sizes (41.8 and 58.0 lbs/bag Pion. 33B51) and three speeds (4.5, 5.3, & 6.0 mph)

Nebraska Soybean & Feed Grains Profitability Project



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Results: 2001

Yield, bu/ac at 15.0%

<u>Planter Speed</u>	<u>Seed</u>	<u>Seed</u>	<u>Mean</u>
<u>41.8 lbs/bag</u>			<u>58.0 lbs/bag</u>
4.5 mph	109	106	107
5.3 mph	113	107	110
6.0 mph	106	103	104
Mean	109	106	107

Statistical Analysis: (Prob >F)

Planter speed (P)	0.133 ns
Seed Size (S)	0.002**
P x S	0.435 ns

Summary: In 2001, the difference in grain yield due to planter speed is significant at the 85% level of confidence which suggests 5 mph as the optimum speed. Smaller seed size resulted in slightly higher grain yield. Need plant density values to determine if that is a factor.

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