



Nebraska On-Farm Research Network

Years: 2003 - 2004

Title: Using Potassium Fertilizer

Crop: Corn (2003), Soybeans (2004)

Study ID: 083053200301M2

County: Dodge County

Objective: To determine and document the effect of using potassium fertilizer on the profitability of producing corn/soybeans.

Soil Test: pH 6.0, OM 1.9%, P 15 ppm, K 158ppm (2003)

Treatments: No potassium fertilizer vs. 0-0-60 broadcast at 80 lbs. K₂O per acre. Residual treatments in 2004.

Nebraska Soybean & Feed Grains Profitability Project



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	<u>Variable</u>	<u>No Potassium</u>	<u>Potassium</u>	<u>Prob > T </u>
Corn 2003	Yield, bu/ac at 15.5%	198	196	0.791 ns
	Moisture, %	15.8	15.8	0.942 ns
	Test Wt, lbs/bu	58.4	58.7	0.087 *
	Pop., 1000 plants/ac	27.3	27.2	0.301 ns
	Cost/ac at 50%	---	\$4.87	
	Hybrid DK 63-50			
Soybeans 2004 (Asgrow 2703)	Yield, bu/ac at 13%	62	61	0.751 ns
	Moisture, %	11.0	11.0	0.140 ns
	Cost/ac	---	\$4.87	---

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Summary: The application of potassium increased grain test weight slightly in 2003. In 2004, residual potassium had no effect on the growth and yield of soybeans.

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