Nebraska **On-Farm Comparison Results** - MCKENZIE Lincoln Nebraska Soybean & Feed Grains Profitability Project Years: 2001 - 2004 Title: Using Potassium Fertilizer **Crop:** Corn (2001), Soybeans (2002), Corn (2003), Soybeans (2004) **NSFGPP Operator:** Duane McKenzie, Dodge County **Private Industry Cooperator: Mark McKenzie Objective:** To determine and document the effect of using potassium fertilizer on the profitability of producing corn/soybeans. Soil Test: pH 5.9, OM 1.7%, P 7 ppm, K 106ppm (2001) pH 6.0, OM 1.9%, P 15 ppm, K 158ppm (2003) Treatments: No potassium fertilizer vs. 0-0-60 broadcast at 80 lbs. K₂0 per acre. Residual treatments in 2002; no additional potassium applied. 80 lbs. K₂O/ac in 2003 on a different field. Residual in 2004.

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252	Nebraska Soybean & Feed Grains Profitability Project								
(iloup)	Resul	ts: <u>Variable</u>	<u>No Potassium</u>	<u>Potassium</u>	<u>Prob >/T/</u>				
and the	Corn 2001	Yield, bu/ac at 15.5% Moisture, %	150 15.7	148 16.4	0.290 ns 0.254 ns				
		Test Wt, Ibs/bu Pop., 1000 plants/ac Cost/ac at 50%	59.4 25.2 	59.1 25.1 \$4.50	0.450 ns 0.092*				
	Soybeans 2002	Yield, bu/ac at 13% Moisture, %	51 12.0	52 12.0	0.593 ns 0.815 ns				
		Test Wt, Ibs/bu Pop., 1000 plants/ac Cost/ac @ 50% Variety: Fontan	56.2 96.9 elle 9011 RR	56.3 96.5 \$4.50	0.617 ns 0.160 ns				

On-Farm Comparison Results

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		<u>Variable</u>	No Potassium	Potassium	<u>Prob >/T/</u>				
	Corn	Yield, bu/ac at 15.5%	198	196	0.791 ns				
	2003	Moisture, %	15.8	15.8	0.942 ns 🛔				
15		Test Wt, Ibs/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							
Ż	Soybeans	Yield, bu/ac at 13%	62	61	0.751 ns				
213	2004	Moisture, %	11.0	11.0	0.140 ns				
	(Asgrow 2703)	Cost/ac		\$4.87					

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