Nebraska Lincoln

On-Farm Comparison Results EMANUEL

Nebraska Soybean & Feed Grains Profitability Project

Years: Title: Crop: NSFGPP Operator: Private Industry Cooperator: Objective:

Treatments:

2004, 2006 Commercial Fertilizer vs. Biosolids Corn Chuck Emanuel, Dodge County Ron Schultz To determine & document the effect of replacing commercial fertilizer with municipal biosolids on the profitability of corn/soybean production. Commercial fertilizer vs. 16 tons/ac Biosolids.

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Results:	2004 (Midwort 8125			
	(Midwest 6125) Com			
<u>Variable</u>	<u>Fertilizer</u>	<u>Biosolids</u>	<u>Prob>/T/</u>	
Yield, bu/ac at 15.5%	186	195	0.0023 ***	
Moisture, %	16.2	16.2	1.000 ns	
Cost/ac	\$16.25*			
Cost/ac (spreading)		\$8.00		
* 100 lbs/ac				

Soil Test Results: pH 7.7, OM 3.0%, P(Olsen) 12 ppm, P(Bray-1) 8.3 ppm, K 253 ppm

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Results: 2	2006			
(Midwest 77320) Corn				
Variable	<u>Fertilizer</u>	Biosolids	Prob>/T/	
Yield, bu/ac at 15.5%	202	215	0.0005 ***	
Moisture, %	15.9	16.2	0.0053 ***	
Cost/ac (spreading)		\$2.00		

Summary: Grain yield was significantly higher where biosolids replaced commercial nitrogen fertilizer in 2004 & 2006. Grain moisture was also slightly higher in 2006 where biosolids had been applied.

Soil Test Results: North - Fertilizer: pH 8.1, OM 3.0, P 9 Olsen, K 239 North - Biosolids: pH 8.1, OM 3.2, P 20 Olsen, K 220 South - Fertilizer: pH 7.6, OM 2.4, P 9 Bray, K 222 South - Biosolids: pH 7.5, OM 2.3, P 19 Bray, K 212

Planting/Harvesting Date: