Nebraska On-Farm Research Network

Years:	2006
Title:	Commercial Fertilizer vs. Biosolids
Crop:	Corn
Study ID:	056053200601
County:	Dodge County
Objective:	To determine & document the effect of replacing commercial fertilizer with municipal biosolids on the profitability of corn/soybean production.
Treatments:	Commercial fertilizer vs. 16 tons/ac Biosolids.

Nebraska Soybean & Feed Grains Profitability Project

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Results: 2006
(Midwest 77320) Corn

Variable	Fertilizer	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 2006. Grain moisture was also slightly higher.

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

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