

## Nebraska On-Farm Research Network

Preplant vs. Sidedressed Liquid (28%) and Anhydrous Ammonia Fertilizer - Corn

Study ID: 131131199601

County: Otoe

**OBJECTIVE:** To determine and document the profitability of two liquid nitrogen applica-

tion rates at planting and two sidedress anhydrous ammonia rates.

**HIGH RATE LOW RATE** 

Treatment: Treatment:

Field Cultivate Field Cultivate

Plant: 1996 - May 11 Plant: 1996 - May 15

Fertilize: 1996 - 100 pounds nitrogen per acre.

Fertilize: 1996 - 40 pounds nitrogen per acre. liquid nitrogen (28%) banded 3" liquid nitrogen (28%) banded 3" from seed with planter versus from seed with planter versus

sidedress anhydrous ammonia in sidedress anhydrous ammonia in 72"

72" knife spacings (June 15) knife spacings (June 15)

#### Comparative cost (per acre) Comparative cost (per acre)

	Liquid	Anhydrous Ammonia		Liquid	Anhydrous Ammonia
Fertilizer	\$19.64	\$12.20	Fertilizer	\$ 7.87	\$ 4.88
Anhydrous Rig	\$ 0.00	\$ 6.00	Anhydrous Rig	\$ 0.00	\$ 6.00
Planter Fertilizer			Planter Fertilizer	•	
Attachment	\$ 1.23	\$ 0.00	Attachment	\$ 1.23	\$ 0.00
Total	<del>\$20.87</del>	<del>\$18.20</del>	Total	<u>\$ 9.10</u>	<del>\$10.88</del>

### Nebraska Soybean & Feed Grains Profitability Project



Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska-Lincoln cooperating with the Counties and the United States Department of Agriculture.

# **EXTENSION**

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Moisture (%) High Liquid (28%) at planting	17.7
High Anhydrous sidedress	17.9
Low Liquid (28%) at planting	18.6
Low Anhydrous sidedress	17.9
Means for Liquid	18.2
Means for Anhydrous	17.9
Means for High Rate	17.8*
Means for Low Rate	18.3
Test Weight (pounds/bushel) High Liquid (28%) at planting High Anhydrous sidedress	56.0 55.4
Low Liquid (28%) at planting	55.1
Low Anhydrous sidedress	55.4
Means for Liquid	55.6
Means for Anhydrous	55.4
Means for High Rate  Means for Low Rate	55.7 55.3
Yield (bushels/acre @ 15.5%) High Liquid (28%) at planting High Anhydrous sidedress	120 121
Low Liquid (28%) at planting	109
Low Anhydrous sidedress	110
Means for Liquid	115
Means for Anhydrous	115
Means for High Rate	120 ***/2
Means for Low Rate	110

\* rate significant at 90% confidence level

\*\*\*/2 rate significant at 99% confidence level

Summary: In 1996, yields were increased by higher rates of nitrogen. There was no

difference between liquid and anhydrous ammonia.

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