Nebraska On-Farm Research Network

Preemergence vs. Sidedress Nitrogen at Two Rates-Corn

Study ID: 097155199501

County: Saunders

Year: 1995

OBJECTIVE: To determine and document the effect on profitability of nitrogen application timing at two rates on com.

HIGH RATE		LOW RATE	
Treatment:		Treatment:	
Fertilize:	1995-140 pounds per acre 28 % Nitrogen *(Preemergence and Sidedress)*	Fertilize:	1995-110 pounds per acre 28% Nitrogen *(Preemergence and Sidedress)*
Herbicide:	1995-1 quart Harness Extra and 3 pounds Extrazine DF	Herbicide:	1995-1 quart Harness Extra and 3 pounds Extrazine DF
Insecticide:	3 pints per acre Penncap	Insecticide:	3 pints per acre Penncap
Plant		Plant	
Cultivate		Cultivate	
Harvest		Harvest	

Comparative cost (per acre)

HIGH RATE*

	1995
Fertilizer #	$26.25
Total	$26.25

Comparative cost (per acre)

LOW RATE*

	1995
Fertilizer	$20.63
Total	$20.63

* Preemergence and sidedress have the same cost

\# Does not include starter

Nebraska Soybean & Feed Grains Profitability Project

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Preemergence vs. Sidedress Nitrogen at Two Rates-Corn, **Ron** Raikes

VARIABLE	1995 CORN
Early population (seeds/acre)	
High Preemergence	24,800
High Sidedress	25,200
Low Preemergence	25,200
Low Sidedress	26,300
Mean High Rate	
Mean Low Rate	
Mean Preemergence	
Mean Sidress	
Yield (15.5%) (bushels/acre)	
High Preemergence	163
High Sidedress	159
Low Preemergence	144
Low Sidedress	144
Mean High Rate	161 ***/1
Mean Low Rate	144
Mean Emergence	154
Mean Sidedress	152

***/1 rate significantly different at the 99% confidence level

Summary: In 1995, a significant yield difference due to rate of nitrogen applied was measured at the 99% confidence level.