EXTENSION

Nebraska On-Farm Research Network

Years:	2006
Title:	Nitrogen Fertilizer Rates & Application Timing
Crop:	Corn
Study ID:	108155200601
County:	Saunders County
Objective:	Determine & document the effect of nitrogen fertilizer rates & application timing on the profitability of irrigated corn.

Nebraska Soybean & Feed Grains Profitability Project

University of Nebraska Lincoln

Nebraska On-Farm Research Network

Treatments - Irrigated:

30,000 plant population

Full irrigation - 14 inches

1. Split 90 Pre(NH_3) + 37 SD(UAN) = 127 lbs/ac
2. Preplant ENR @ 140 lbs/ac (NH_3)
3. Preplant UNL Rec @ 154 lbs/ac (NH_3)
4. Preplant FARM Rate @ 180 lbs/ac (NH_3)

SD = Side-dressed
ENR=UNL economical nitrogen rate based on $2.20/bu corn with 235 bu/ac irrigated yield goal.

Results: 2006 Pioneer 34A16

Irrigated	Nitrogen Treatment				
	127	140	154	180	Prob>F
Yield, bu/ac @15.5%	209b	213a	210ab	210ab	0.261 ns
Moisture, %	16.0	16.1	16.1	16.1	0.756 ns
Monitor, bu/ac	216	217	217	217	0.991 ns
Cost/ac	$53.70	$49.30	$53.50	$61.20	-----

Planting Date: 4-27-06

Harvest Date:

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