

Maximize Profits from Nitrogen... ..and Protect the Environment, too!!

This is an economic summary of 85 Northeast Nebraska On-Farm Corn Nitrogen Test Plots: 1986 - 2000*

by UNL Cooperative Extension **

Profit or loss is based on nitrogen at **\$0.30** / lb., and corn at **\$2.00** / bu.
(Change nitrogen and corn prices in the line above to see profit at other prices)

Plot Design	Soil	Number of sites	Nitrogen Rate			Profit or Loss	
			-50	Recom.	+50	Relative to Rec. rate	-50
			Yield				
Non-manured Corn^a:			-----bu/ac-----			-----\$/ac-----	
Three N Rates:	Silty	18 ^b	136	143	142	\$1.00	-\$17.00
Two N Rates:	Silty	13	-----	134	139	-----	-\$5.00
Three N Rates:	Sandy	35	156	162	165	\$3.00	-\$9.00
Corn with a manure history:							
Corn after corn:							
Three N Rates:	Silty	4 ^c	120	128	126	-\$2.50	-\$17.50
Two N Rates:	Silty	7	-----	122	122	-----	-\$15.00
Corn after soybean:							
Two N Rates:	Silty	8	-----	152	154	-----	-\$11.00
Weighted Yield Averages:							
Three N Rates:	-----	57	147	153	155	\$3.00	-\$11.00
Two N Rates:	-----	28	-----	136	139	-----	-\$9.00

* Each site had 3 or more randomized replications of each treatment

** Plot costs were supported in part by the Lower Elkhorn NRD, the Upper Elkhorn NRD, and other agencies

Conclusion: The most profitable corn nitrogen rate is usually that calculated from the UNL corn nitrogen equation, and sometimes less!!

^a Soybean was the previous crop in 1/3 of the plots. Half of the silty sites were irrigated, but all of the sandy sites were irrigated.

^b 3 of the 18 plot treatments used -40, Recom., +40 lb N/ac.

^c 2 of the 4 plot treatments used -40, Recom., +40 lb N/ac, and two were irrigated.

Data is provided by Charles Shapiro, Bill Kranz, and Jim Peterson.

For more information contact your County Extension Educator, or

Charles Shapiro, Extension Soil Fertility Specialist

Northeast Research & Extension Center

Haskell Agricultural Laboratory, 57905 866 Rd., Concord NE, 68728, 402-584-2803, CSHAPIRO1@UNL.EDU