Pelleted Lime vs. No Lime

Soybeans-1993, Corn-1994, Soybeans-1995

Bill Kremlacek

Private Industry Cooperator: Jerry Mulliken

OBJECTIVE: To determine and document the profitability of soybeans and corn using pelleted lime

versus no lime. (Soybeans-1993, Corn-1994, Soybeans-1995)

PELLETED LIME

NO LIME

Treatment:

Treatment:

Fertilize: Anhydrous Ammonia

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Field Cultivate

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Plant: Apply pelleted lime with

seed at 150 pounds per acre

Plant

Herbicide: 1993-3 pints Squadron and

9 ounces Command

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1994-1 quart Bullet and

1.75 pints Atrazine

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1.75 pints Atrazine

1995-3 ounces Pursuit and

3 ounces Fusilade

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Rotary Hoe: 1993

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Row Cultivate

Row Cultivate

Harvest

Harvest

Pelleted Lime vs. No Lime (Soybeans-1993, Corn-1994, Soybeans-1995), Bill Kremlacek

Page 2

PELLETED LIME

NO LIME

Comparative cost (per acre)				Comparative	Comparative cost (per acre)			
	<u>1993</u>	<u>1994</u>	<u>1995</u>		<u>1993</u>	<u>1994</u>	<u>1995</u>	
Lime (150 pounds				No lime	\$0.00	\$0.00	\$0.00	
@ \$7 ² /ton)	\$5.40	\$5.40	\$5.40					
Total	\$5.40	\$5.40	\$5.40	Total	\$0.00	\$0.00	\$0.00	

VARIABLE	1993 SOYBEANS	1994 CORN	1995 SOYBEANS
Final population (seeds/acre)	105 100	1 < 700	
Lime No Lime	106,400 103,700	16,500 17,100	88,200 88,400
NO LIME	103,700	17,100	00,400
Plant height			
Lime	29.1"	N/A	26.9"
No Lime	28 "	N/A	26.9"
Moisture (%)			
Lime	9.3	17.0 **	8.7
No Lime	9.2	17.3	8.7
Test weight (pounds/bushel)			
Lime	54.4	57.4	N/A
No Lime	54.2	56.8	N/A
Yield (bushels/acre)	(13%)	(15.5%)	(13%)
Lime	43	139 **	37
No Lime	45	136	37

^{**} significantly different at 95% confidence level

Pelleted Lime vs. No Lime (Soybeans—1993, Corn1994, Soybeans1995), Bill Kremlacek Page 3

Summary: There was no significant yield difference between the limed and non-limed

treatments in 1993 nor 1995; however, the 1994 comparison showed a significant advantage on the limed corn. The liming treatment costs approximately \$5.40/acre.