Conventional Tillage vs. No-till Soybeans 1992 and 1993

Don Schlictemeier

Private Industry Cooperator: Steve Mills

OBJECTIVE:	То	determine	and	document	the	profitability	of	conventional	tillage	versus	no-till
	soybeans.										

CONVEN	FIONAL TILLAGE	NO-TILL	NO-TILL				
Treatment:		Treatment:					
Cultivate		Cultivate					
Herbicide:	1 quart Prowl, 1 pint Command and 3.2 ounces Scepter	Herbicide:	1 quart Prowl, 1 pint Command and 3.2 ounces Scep ter				
Plant		Plant					
Harvest		Harvest					

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Comparative cost (p	er acre)		Comparative cost (p	er acre)	
	<u>1992</u>	<u>1993</u>		<u>1992</u>	<u>1993 </u>
Field Cultivation	\$5.81	\$5.81	None	\$0.00	\$0.00
Total	\$5.81	\$5.81	Total	\$0.00	\$0.00

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VARIABLE	1992 SOYBEANS	1993 SOYBEANS		
Final population (seeds/acre)	227 000	155 000		
No-till	236,000	153,900		
Plant height	35 0"	33 4"		
No-till	35.7"	31.4"		
Pod height	<u>(</u> 0)	8 6"		
No-till	7.0"	8.5"		
Moisture (%)		10.5		
Conventional No- till	11.7 11.7	10.5 10.5		
Test weight (pounds/bushel)	57.0	57.2		
No-till	57.0	57.3 57.3		
Yield (13 %) (bushels/acre)	5.4	46		
Conventional	(2 Yr. Avg. = 50)	40		
No-till	53 (2 Yr. Avg. = 49)	45		

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Summary: There has been no significant difference in yield between the conventional tillage and no-till treatment in 1992 or 1993. The additional field cultivation in the conventional tillage treatment cost approximately \$5.81/acre.