Nebraska On-Farm Research Network

Soybean Planting Date vs. Preplant + Post or Only Preplant Herbicide Treatment

Study ID: 029053199601

Year: 1996

County: Dodge

OBJECTIVE: To determine and document the profitability of soybean planting date versus preplant plus post or only post herbicide treatment.

Treatments:	Comparative cost (per acre)
EARLY PLANT with PREPLANT HERBICIDE Herbicide: .5 pint 2.4-D LV Ester, 2 pints Dual II, 6 ounces Canopy, and .25 ounces Pinnacle	$39.70
EARLY PLANT with PRE + POST HERBICIDE Herbicide: 1 pint Roundup, 1 pint 2.4-D LV Ester, 2 pints Galaxy, and 1.5 pints Post Plus	$36.97
LATE PLANT with PREPLANT HERBICIDE Herbicide: .5 pint 2.4-D LV Ester, 2 pints Dual II, and 6 ounces Canopy	$30.95
LATE PLANT with PRE + POST HERBICIDE Herbicide: 1 pint Roundup, 1 pint Roundup (Note - 2 separate applications), .7 pint 2.4-D LV Ester and .25 ounces Pinnacle	$28.09

Nebraska Soybean & Feed Grains Profitability Project

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VARIABLE	1996 SOYBEANS
Plant height, inches	
Early Planted/Preplant Herbicide	23.1
Early Planted/Preplant+Post Herbicide	25.7
Late Planted/Preplant Herbicide	30.2
Late Planted/Pre-plant+Post Herbicide	30.7
Mean for Early Planted	24.4 ***
Mean for Late Planted	30.5
Mean for Preplant Herbicide	26.7
Mean for Preplant +Post Herbicide	28.2
Moisture (%)	
Early Planted/Preplant Herbicide	10.0
Early Planted/Preplant+Post Herbicide	10.1
Late Planted/Preplant Herbicide	10.3
Late Planted/Pre-plant+Post Herbicide	10.4
Mean for Early Planted	10.0 **
Mean for Late Planted	10.4
Mean for Preplant Herbicide	10.2
Mean for Preplant +Post Herbicide	10.2

** Planting dates significantly different at 95% confidence level

*** Herbicide treatments, planting time, and planting time by treatment effects on plant height are all significant at 99% confidence level

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VARIABLE	1996 SOYBEANS
Yield (13%) (bushelds/acre)	
Early Planted/Preplant Herbicide	34 **
Early Planted/Preplant+Post Herbicide	43
Late Planted/Preplant Herbicide	42
Late Planted/Pre-plant+Post Herbicide	43
Mean for Early Planted	39 **
Mean for Late Planted	43
Mean for Preplant Herbicide	38 ***
Mean for Preplant +Post Herbicide	43

** Planting time and planting time by treatment affects on yield are significant at 95% confidence level.

*** Herbicide treatments, planting time, and planting time by treatment effects on plant height are all significant at 99% confidence level.

Summary: In 1996, the early planted with preplant herbicide yielded less than the other treatments. Final plant population was the lowest in this treatment.

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