Nebraska On-Farm Research Network

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

Study ID: 029053199501

County: Dodge

Year: 1995

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

Treatment:		Comparative cost (per acre)
EARLY PLANT/PREPLANT HERBICIDE	Herbicide: 4.5 pounds Partner, .375 pounds Canopy, 6 ounces Select and 3.3 pounds AMS	$38.05
EARLY PLANT/PRE + POST HERBICIDE	Herbicide: 1 quart Roundup, 2 ounces Sencor, 2 pints Galaxy, 24 ounces Post Plus and 2 pints COC	$38.14
LATE PLANT/PREPLANT HERBICIDE	Herbicide: 1995 - 4.5 pounds Partner, .375 pounds Canopy, 6 ounces Select and 3.3 pounds AMS	$38.05
LATE PLANT/PRE + POST HERBICIDE	Herbicide: 1995 - 1 quart Roundup, 2 ounces Sencor, 2 pints Galaxy, 24 ounces Post Plus and 2 pints COC	$38.14

Nebraska On-Farm Research Network

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

VARIABLE	1995 SOYBEANS
Plant height, inches	
Early Planted/Preplant Herbicide	21.3 ***
Early Planted/Preplant+Post Herbicide	13.4 ***
Late Planted/Preplant Herbicide	25.9
Late Planted/Pre-plant+Post Herbicide	27.4
Mean for Early Planted	17.4 ***
Mean for Late Planted	26.6
Mean for Preplant Herbicide	23.6 ***
Mean for Preplant +Post Herbicide	20.4
Moisture (%)	
Early Planted/Preplant Herbicide	9.1
Early Planted/Preplant+Post Herbicide	9.3
Late Planted/Preplant Herbicide	8.9
Late Planted/Pre-plant+Post Herbicide	9.1
Mean for Early Planted	9.2 **
Mean for Late Planted	9.0
Mean for Preplant Herbicide	9.0 *
Mean for Preplant +Post Herbicide	9.2

* Herbicide treatments significantly different at 90% confidence level

** 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

Nebraska Soybean & Feed Grains Profitability Project

Nebraska On-Farm Research Network

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

VARIABLE	1995 SOYBEANS
Yield (13%) (bushelds/acre)	
Early Planted/Preplant Herbicide	39
Early Planted/Preplant+Post Herbicide	15 ***
Late Planted/Preplant Herbicide	40
Late Planted/Pre-plant+Post Herbicide	40
Mean for Early Planted	27 ***
Mean for Late Planted	40
Mean for Preplant Herbicide	40 ***
Mean for Preplant +Post Herbicide	28

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

Summary: In 1995, the early planting with the post hericide application resulted in reduced yield. The crop did not recover from early weed pressure.