



Nebraska On-Farm Research Network

Reduced vs. Standard Herbicide Rate (Soybeans)

Study ID: 115025199301

Cass County

OBJECTIVE: To determine and document the profitability of a reduced versus a standard herbicide rate program for soybeans.

REDUCED RATE

Treatment:

Herbicide:

.5 pint Roundup, 4 ounces
Pursuit and .5 pint 2,4-D

Planting

Harvest

. Costs:

1993

Herbicide

\$20.25

Comparative cost

\$20.25/acre

STANDARD RATE

Treatment:

Herbicide:

28% UAN, .125 gallon
Crop Oil, .0156 gallon NIS,
5 ounces Classic, 3 ounces
Canopy, .5 pint 2-4D and
4.6 ounces Assure II

Planting

Harvest

. Costs:

1993

Herbicide

\$21.58

Comparative cost

\$21.58/acre

RESULTS:

	Final Population	Plant height	Pod height	Moisture	Test weight	Yield (13%)
Reduced	159,000	27.7"	6.6"	14.7%	55.7 *	43.5
Standard	155,900	28.8"	6.2"	14.7%	55.8 *	44.0

* significantly different at 95% confidence level

** significantly different at 99% confidence level

Summary: There was no significant difference in yield between the standard and reduced herbicide treatments. Herbicide treatment costs in 1992 were approximately \$4.00/acre difference; while in 1993, due to weed pressure and environmental conditions, herbicide costs differed by only about \$1.00/acre.

Nebraska Soybean & Feed Grains Profitability Project



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