

## On-Farm Comparison Results SCHLICHTEMEIER

### Nebraska Soybean & Feed Grains Profitability Project

<b><i>Years:</i></b>	2001-2006
<b><i>Title:</i></b>	Roundup Ready Soybeans - Drag & Lag Effect
<b><i>Crop:</i></b>	Soybeans
<b><i>NSFGPP Operator:</i></b>	Don Schlichtemeier, Cass County
<b><i>Private Industry Cooperator:</i></b>	Keith Glewen & Bryon Chvatal
<b><i>Objective:</i></b>	To determine & document the influence of growing Roundup Ready soybeans on the profitability of soybean production.
<b><i>Treatments:</i></b>	Roundup Ready Soybean Variety vs. Sister-line Variety not Roundup Ready.

Nebraska Soybean & Feed Grains Profitability Project

Treatments: 2001

Roundup Ready

Variety: NK 30-P6

Burndown Herbicide: Roundup @ 1.25 pt +  
Pursuit Plus @ 2 pt/ac

Post Herbicide: Roundup @ 26 oz/ac

Conventional

Variety: NK 3223

Burndown Herbicide: Same

Post Herbicide: Poast @ 1 pt + Reflex @ 0.3 pt/ac

Nebraska Soybean & Feed Grains Profitability Project

Results:

2001

Variable

Roundup

Conventional

Prob >/T/

Yield, bu/ac @ 13%

45

51

0.0001 \*\*\*

Moisture, %

11.8

11.8

1.000 ns

Cost/ac, Herb.

\$27.14

\$24.84

Seed

\$33.75

\$24.75

Nebraska Soybean & Feed Grains Profitability Project

Treatments: 2002

Roundup Ready

Variety: NK 30-P6

Burndown Herbicide: Roundup Ultra @ 1.5 pts (\$7.50)+  
Pursuit Plus @ 2 pts/ac (\$9.50)

Post Herbicide: Roundup Ultra @ 30 oz/ac (\$9.00)

Conventional

Variety: NK 3223

Burndown Herbicide: Same (\$17.00)

Post Herbicide: Poast Plus @ 1.25 pts (\$8.00)+  
Reflex @ 0.4 pts/ac (\$5.00)

Nebraska Soybean & Feed Grains Profitability Project

Results: 2002

<u>Variable</u>	<u>Roundup</u>	<u>Conventional</u>	<u>Prob &gt;/T/</u>
Yield, bu/ac @ 13%	49	51	0.116 ns
Moisture, %	11.8	11.8	0.374 ns
Cost/ac, Herb.	\$26.00	\$30.00	
Seed	\$33.00	\$24.00	
Sale Premium:			

Nebraska Soybean & Feed Grains Profitability Project

Treatments: 2003

Roundup Ready

Variety: Asgrow 3201 RR

Burndown Herbicide: Roundup @ 26 oz (\$8.71)

Prowl @ 2 pts (\$5.74)

Post Herbicide: Roundup @ 26 oz (\$8.71)

Conventional

Variety: Asgrow 3244

Burndown Herbicide: Roundup @ 26 oz (\$8.71)

Prowl @ 2 pts (\$5.74)

Post Herbicide: Reflex @ .4 pts/ac (\$4.50)

Post Plus @ 1.25 pts (\$7.19)

First Rate @ .25 oz (\$5.25)



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Nebraska Soybean & Feed Grains Profitability Project

Results:

2003

<u>Variable</u>	<u>Roundup</u>	<u>Conventional</u>	<u>Prob &gt;/T/</u>
Yield, bu/ac @ 13%	38	39	0.021 **
Cost/ac, Herb.	\$23.16	\$31.39	
Seed	\$35.50	\$23.40	

Nebraska Soybean & Feed Grains Profitability Project

Treatments: 2004

Roundup Ready

Variety: NK 32 - G5

Burndown Herbicide: Roundup - 1 qt (\$3.37)

Blanket - 3 oz (\$3.45)

Pendimax - 2 pts (\$5.20) Total \$12.02

Post Herbicide: Roundup @ 1 qt (\$3.37)

Conventional

Variety: NK 32-23

Burndown Herbicide: Same (\$12.02)

Post Herbicide: Select - 8 oz (\$8.32)

Reflex - .4 pts/ac (\$4.40)

First Rate - .2 oz (\$3.85) Total \$16.57



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## Nebraska Soybean & Feed Grains Profitability Project

**Results:**

**2004**

**NK 32-G5**

**NK 32-23**

Variable

Roundup

Conventional

Prob >/T/

Yield, bu/ac @ 13%

55

58

0.0052 \*\*\*

Cost/ac, Post Herb.

\$3.37

\$16.57

Seed

\$35.88

\$23.40

Seeding Rate: 195,000 seeds/ac

Nebraska Soybean & Feed Grains Profitability Project

Treatments: 2005

Roundup Ready

Variety: NK 32-G5

Burndown Herbicide: Roundup - 1 qt (\$3.00)

Blanket - 3 oz (\$6.54)

Pendimax - 1.75 pt (\$4.59) Total \$14.13

Post Herbicide: Reflex - .4 pts (\$4.50)

Select - 8 oz (\$8.44)

First Rate - .25 oz (\$4.88) Total \$17.82

Conventional

Variety: NK 32-23

Burndown Herbicide: Same as above

Post Herbicide: Same as above

On-Farm Comparison Results  
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Nebraska Soybean & Feed Grains Profitability Project

Results:

2005

NK 32-G5

NK 32-23

Variable

Roundup

Conventional

Prob >/T/

Yield, bu/ac @ 13%

54

57

0.0091 \*\*\*

Moisture, %

11.0

11.0

1.000 ns

Cost/ac, Post Herb.

\$31.95

\$31.95

Seed

\$33.13

\$9.60

Nebraska Soybean & Feed Grains Profitability Project

Treatments: 2006

Roundup Ready

Variety: NK 32-65

Burndown Herbicide:

Pendimax	1.75 pts/ac	\$4.55/ac
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First Rate	.03 oz/ac	5.96/ac
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Glyphosate	1 qt/ac	<u>3.00/ac</u>
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13.51/ac

Post Herbicide:	.4 pt/ac	4.56/ac
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Reflex	8 oz/ac	<u>7.52/ac</u>
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12.08 ac

Conventional

Variety: NK 32-23

Burndown Herbicide: Same

Post Herbicide: Same

## On-Farm Comparison Results SCHLICHTEMEIER

### Nebraska Soybean & Feed Grains Profitability Project

Results:	2006		
	NK 32-G5	NK 32-Z3	
<u>Variable</u>	<u>Roundup</u>	<u>Conventional</u>	<u>Prob &gt;/T/</u>
Yield, bu/ac @ 13%	58	61	0.0037 ***
Moisture, %	11.6	11.6	0.407 ns
Cost/ac, Post Herb.	\$12.08	\$12.08	---
Seed	\$27.25	\$17.25	---
Premium		\$33.39	

Planting Date: 5/17/06

Harvest Date: 10/15/06

Summary: In 2001, soybean seed yields were significantly higher where conventional treatments were used; however, in 2002, seed yields were not significantly different. In 2003, conventional treatments yielded slightly, but significantly more than Roundup Ready. In 2004, 2005 & 2006, the conventional variety yielded more than the Roundup Ready.