



Nebraska On-Farm Research Network

RyzUp Smartgrass® Growth Regulator on Soybeans

Study ID: 037023201402

County: Butler

Soil Type: Unknown

Planting Date: 5/31/2014

Harvest Date: 10/14-15/2014

Population: 172,000

Row Spacing: 30"

Hybrid: NK S26-E5

Reps: 3

Soil Test Values: Unknown

Previous Crop: Seed corn

Tillage: Unknown

Herbicides: Pre: Unknown

Post: Unknown

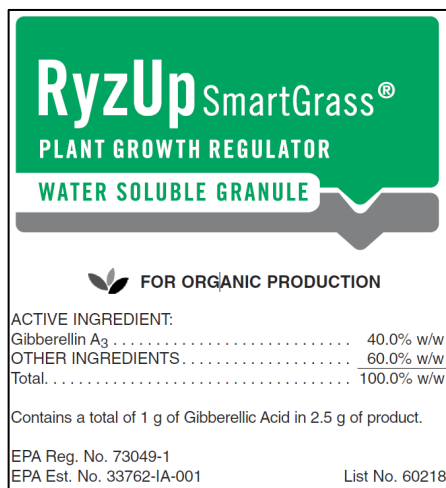
Insecticides/Fungicides: Unknown

Fertilizers: Unknown

Irrigation: Pivot

Rainfall: Unknown

Introduction: This study was a comparison between two application strategies of RyzUp Smartgrass® on soybeans. The first treatment was one application of 0.3 oz/ac RyzUp Smartgrass® with 1 qt/100 gal (13.3 gal/ac) Synurgize as surfactant at the first trifoliate on 6/19/2014. The second treatment was one 0.3 oz/ac application of RyzUp Smartgrass® with Synurgize surfactant at the first trifoliate on 6/19/2014 as well as an additional 0.3 oz/ac application at the second trifoliate on 6/24/2014.



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Results: The single application and double application treatments were applied in different locations in the field thus these two approaches were analyzed separately.

	Yield† (bu/acre)	Protein (%)	Weight (g/100 seeds)	Oil (%)	Net Return ‡
Check	66 B*	36.5 A	17.2 A	17.9 A	\$660.00
RyzUp Smartgrass® – Single Treatment	73 A	36.1 A	17.7 A	18.0 A	\$716.48
P-Value	0.0057	0.2446	0.3028	0.3364	--

	Yield† (bu/acre)	Protein (%)	Weight (g/100 seeds)	Oil (%)	Net Return ‡
Check	67 A*	36.4 A	16.9 A	17.9 A	\$670.00
RyzUp Smartgrass® – Double Treatment	63 B	36.2 A	17.4 A	18.0 A	\$602.96
P-Value	0.0269	0.1568	0.2269	0.4154	--

†Bushels per acre corrected to 13.0% moisture.

*Values with the same letter are not significantly different at a 90% confidence level.

‡Net return based on \$10.00/bu soybean price, \$13.52/application RyzUp Smartgrass® cost (\$7/ac RyzUp Smartgrass®, \$0.52/ac Synurgize, \$6.00/ac application cost).

Summary: The single treatment of RyzUp Smartgrass® resulted in a significant increase in yield compared to the check. This gave an increased net return of approximately \$56. There was no significant difference in the weight, protein or oil contents with the single treatment. The double treatment of RyzUp Smartgrass® resulted in a significant decrease in yield with no significant difference in the weight, protein, or oil contents when compared to the check. The double treatment resulted in an approximate loss of \$70 in net return.

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