

## RyzUp SmartGrass® on Corn

**Study ID:** 039155201501

**County:** Saunders

**Soil Type:** Tomek silt loam; Filbert silt loam; Fillmore silt loam; Yutan silty clay loam

**Planting Date:** 4/29/15

**Harvest Date:** 10/28/15

**Population:** 32,000

**Row Spacing (in.)** 30

**Hybrid:** GH 12L09 3010 A

**Reps:** 9

**Previous Crop:** Soybean

**Tillage:** No-Till

**Herbicides:** *Pre:* 12 oz/ac Verdict, 32 oz/ac Atrazine 4L, and 22 oz/ac Roundup PowerMax on 4/29/15 *Post:* 57.6 oz/ac Halex GT and 16 oz/ac Atrazine 4L on 6/8/15

**Seed Treatment:** A500

**Foliar Insecticides:** 1.92 oz/ac Baythroid on 6/8/15;  
3.2 oz/ac Fastac on 6/25/15;  
6.4 oz/ac Brigade on 7/29/15

**Foliar Fungicides:** 4 oz/ac Priaxor on 6/25/15;

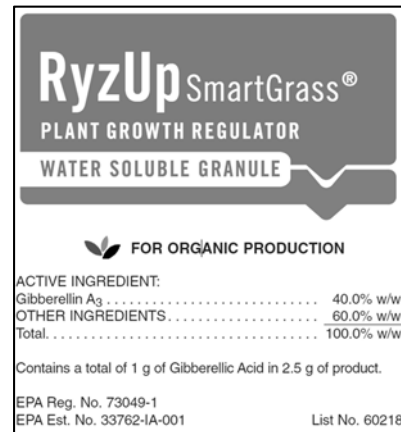
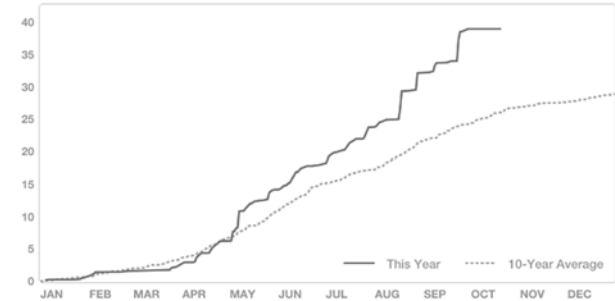
10 oz/ac Headline Amp on 7/29/15

**Fertilizer:** 9 gal/ac 10-34-0 and 2.5 qts/ac 10% zinc on 4/29/15 (Totalled 36 lb P + 10.5 lb N);

165 lbs/ac NH<sub>3</sub> on 5/30/15

**Irrigation:** None

**Rainfall (in.):**



Product information from:

<http://www.valent.com/agriculture/products/ryzupsmartgrass/label-msds.cfm>

**Introduction:** The purpose of this study was to determine the effect of RyzUp SmartGrass® growth promoter on corn yield.

The product was applied with herbicide and Quest (water conditioner and spray adjuvant) on 6/8/15 when corn was at V5. Stalk lodging was assessed using the "push" method on 10/6/15.

Results:	Yield†	Moisture (%)	Lodging (%)	Net Return‡
Check	247 A*	14.3 A	13 A	\$901.55
RyzUp SmartGrass (0.5 oz)	234 A	14.1 B	15 A	\$844.10
P-Value	0.2502	0.044	0.456	--

†Bushels per acre corrected to 15.5% moisture.

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

‡Net Return based on \$3.65 corn and \$10.00 treatment cost.

**Summary:** There was no significant difference in corn yield or stalk strength between RyzUp SmartGrass® growth promoter and the untreated check. The untreated check had significantly higher harvest moisture than the RyzUp SmartGrass® growth promoter treatment.

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