

## RyzUp SmartGrass® at V1 or V2 on Soybeans

**Study ID:** 612023201601

**County:** Butler

**Soil Type:** Muir silt loam rarely flooded; Yutan silty clay loam 6-11% slopes, eroded; Nodaway silt loam occasionally flooded; Hobbs silt loam occasionally flooded

**Planting Date:** 5/31/16

**Population:** 160,000

**Hybrid:** NuPride 8297 GT

**Reps:** 4

**Previous Crop:** Oats (harvested spring 2016)

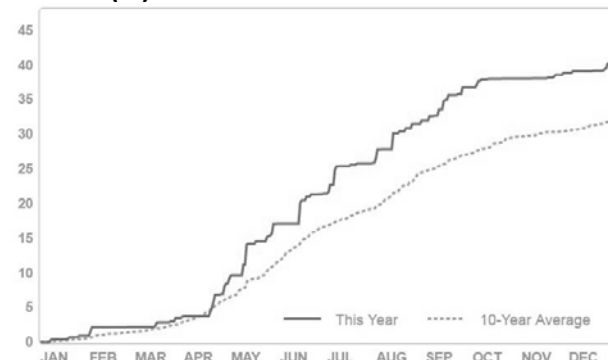
**Herbicides:** Roundup PowerMAX® on 7/25/16

**Foliar Insecticides:** None

**Foliar Fungicides:** None

**Irrigation:** None

**Rainfall (in):**



**Introduction:** RyzUp SmartGrass® was applied at a rate of 0.3 oz/ac with ClassAct® NG® 2.5% v/v. The solution was applied at 10 gpa. RyzUp SmartGrass was applied at V1 or V2 growth stage to evaluate the timing of application on soybeans. RyzUp SmartGrass active ingredients are at right. RyzUp SmartGrass is not currently labeled for use in soybeans, however there is a tolerance for the active ingredient.

Product information from:

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



### Results:

|             | Stem Height<br>August 11 | Trifoliolate Nodes<br>August 11 | Yield<br>(bu/acre)† | Protein<br>(%) | Oil<br>(%) | Seeds<br>per lb | Marginal Net<br>Return‡ (\$/ac) |
|-------------|--------------------------|---------------------------------|---------------------|----------------|------------|-----------------|---------------------------------|
| Check       | 14.7 B*                  | 7.7 B                           | 57 A                | 36.5 A         | 17.9 A     | 2,931 C         | \$527.25                        |
| RyzUp at V1 | 16.9 AB                  | 8.2 A                           | 58 A                | 36.0 A         | 17.8 A     | 3,117 A         | \$524.62                        |
| RyzUp at V2 | 19.3 A                   | 8.2 A                           | 56 A                | 36.1 A         | 18.3 A     | 3,026 B         | \$506.12                        |
| P-Value     | 0.018                    | 0.013                           | 0.699               | 0.303          | 0.320      | 0.002           | N/A                             |

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

†Bushels per acre corrected to 13% moisture.

‡Marginal net return based on \$9.25/bu soybean, \$6.82/ac application cost, and \$5.06/ac product cost for RyzUp SmartGrass and ClassAct NG 2.5%.

**Summary:** The RyzUp SmartGrass treatments had increased trifoliolate nodes on August 11 when compared to the check. Variations in stem height between treatments were also observed on August 11, with the RyzUp SmartGrass application at V2 having a taller stem height than the check. At harvest, there were no differences in yield, protein, or oil between the RyzUp SmartGrass treatments and the check. Both the V1 and V2 RyzUp SmartGrass application had more seeds per lb than the check, with the V1 RyzUp SmartGrass treatment having the greatest number of seeds per lb. Because the RyzUp SmartGrass treatments did not increase yield, the untreated check resulted in the highest marginal net return.

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