

Evaluation of Kugler KQ Calcium Chloride Fertilization in Soybeans

Study ID: 319039201701

County: Cuming

Soil Type: Moody silty clay loam 2-6% slopes

Planting Date: 5/24/17

Harvest Date: 10/16/17

Row Spacing (in): 36

Variety: Curry 1252

Reps: 4

Tillage: No-Till

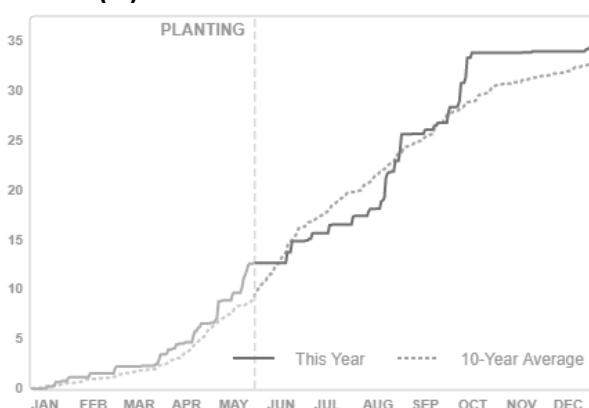
Herbicides: *Pre:* 3 oz/ac Surveil®, 6 oz/ac Tricor® DF, and 10 oz/ac 2,4-D LV6 *Post:* 2.5 oz/ac Anthem® Maxx, 28 oz/ac Roundup® PowerMAX, 6 oz Clethodim®, and 1 lb/ac dextrose

Seed Treatment: Commence® from Agnition and Nutriplant® SD from Amway

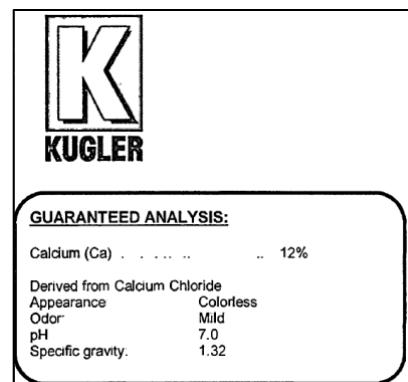
Fertilizer: 2.5 ton/ac beef manure (17.5 lb N, 181 lb P, 116 lb K, 41.3 lb S, and 1.6 lb Zn)

Irrigation: None

Rainfall (in):



Introduction: Kugler KQ calcium chloride (product information at right) was applied at a rate of 1 gal/ac to the soil on April 7, 2017. The calcium chloride application was compared with an untreated check. Yield, moisture, and net return were measured. Soil tests for the field indicated pH was 5.6. Base saturations were as follows: K% = 2.8, Mg% = 16.2, Ca% = 56.9, H% = 23.7, and Na% = 0.4.



Results:

	Moisture (%)	Yield (bu/acre)†	Marginal Net Return‡ (\$/ac)
Check	12.7 A*	70 A	624.96 A
Calcium Chloride	12.8 A	70 A	606.84 B
P-Value	0.245	0.405	0.039

*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 \$8.90/bu soybean, \$5/ac for product, and \$8.13 for product application.

Summary:

- There were no differences in yield or moisture for the calcium chloride treatment compared with the untreated check.
- The check had a significantly higher marginal net return due to reduced input costs compared with the calcium chloride treatment.

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