

OBJECTIVE

To assess the yield response of a foliar spray of Fertileader Gold at early bloom (R1) on crop of soybean.

Site Location:
Germansville, PA

Researcher:
CMS, Inc. (Contract Research Org.)

STUDY INFORMATION

| | | |
|------------|--|-----------------|
| Variety | | S120114 Seedway |
| Population | | 130,000 |

TIMAC AGRO PRODUCT



KEY FINDINGS

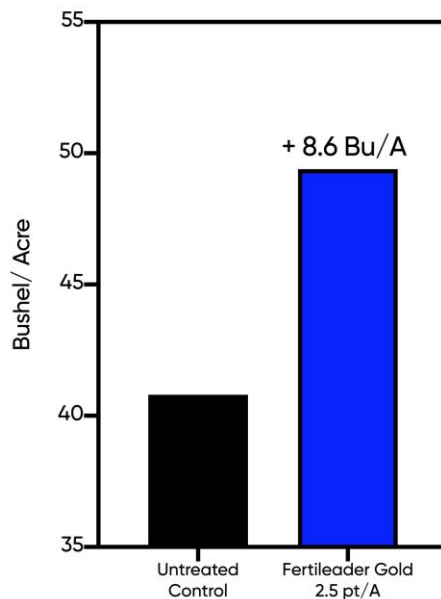
+8.6 bu/ac

More than untreated control

ROI:
\$58.02/ac

Graph: Foliar spray of Fertileader Gold improved yield 8.6 bu/ac for soybean crop. The Gross Revenue above was calculated at \$8.50 bushel with Fertileader Gold retail cost of \$48.25/Gallon.

Soybean Yield Response from Fertileader Gold at Early Bloom (Germansville, PA)



APPLICATION

| Treatment | Application Rate |
|------------------|------------------|
| Control | N/A |
| Fertileader Gold | 2.5 pint/A |

MATERIALS AND METHODS

The experiment was implemented during the 2018 growing season at CMS, Inc., a private contract research organization. This location of the trial has been maintained weed and disease free, is well-drained, with excellent fertility. It has 1-2% slope but is well-suited to provide evenly distributed soil fertility, pH, soil organic matter, and water availability. Soil type is a rocky shale loam (Trexler shaly loam) with a pH of 6.8 (2.2% OM). Experimental units were plots four rows wide and 30 feet in length with 30-inch row spacing. Soybean was the previous crop and conventional tillage was used. A glyphosate tolerant variety (S120114 Seedway, Untreated) was grown at a population of 130,000 plants per acre to assess the impact of bio-nutritional products in an intensive crop system. Plots were arranged using an RCBD with 4 replications. Fertilizer applications were designed to be equivalent among all treatments and were applied pre-plant as a broadcast followed by incorporation. Fertileader Gold was applied at a rate of 2.5 pints/ac during early bloom (R1) growth stage. The center two rows of each plot were mechanically harvested at maturity for determination of grain yield and harvest moisture, and the yield was subsequently standardized to bushels/ac at 13% moisture.

RESULTS AND CONCLUSIONS

Foliar spray of Fertileader Gold (2.5 pint/A) at early bloom improved soybean yield over untreated control by 8.6 bushel/acre. This resulted in a ROI of \$58.02/Acre.

RETURN ON INVESTMENT

| Treatment | Yield bu/ac | Gross Revenue @ \$8.50/bu | Change from Control | Added Costs/ac | ROI |
|------------------------------------|-------------|---------------------------|---------------------|----------------|----------------|
| Control | 40.8 | \$346.80 | - | \$0.00 | - |
| Fertileader Gold (2.5 pt/A) | 49.4 | \$419.90 | \$73.10 | \$15.08 | \$58.02 |

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