



TECH

Tips

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Research and Technology Field Results- Soybean Foliar Fertilizers and Stress Reduction Miller, SD

Objectives:

- 1) Test the response to foliar fertilizers and micronutrients applied at the R2 growth stage of soybeans

Treatments Tested – Soybean Foliar Fertilizers and Stress Reduction:

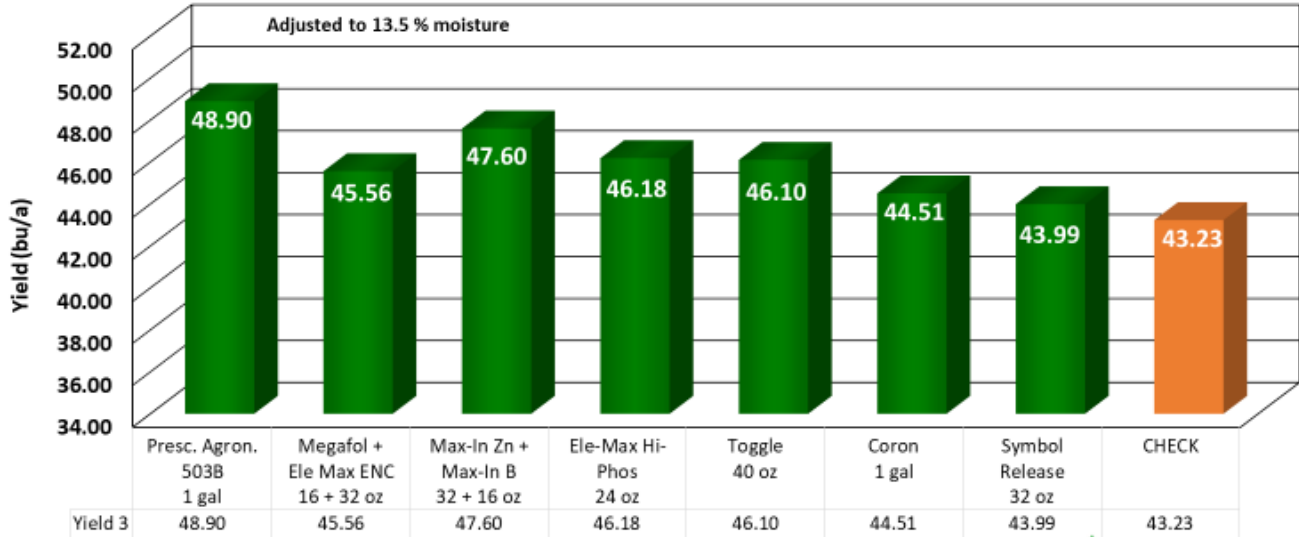
- Untreated (no foliar fertilizer)
- MicroSul 503B (Prescription Agronomics)
- Megafol + EleMax ENC (Helena)
- Max-In Zn + Max-In B (Winfield United)
- EleMax Hi-Phos (Helena)
- Toggle (Winfield United)
- CoRoN + B (Helena)
- Symbol Release (Winfield United)

Treatments and Rates Tested:

Brand	Product	Rate
Presc. Agronomics	MicroSul 503B	1 gal/A
Helena	Megafol + Ele Max ENC	16 + 32 oz/A
Winfield United	Max-In Zn +Max-In B	32 + 16 oz/A
Helena	Hi-Phos	24 oz/A
Winfield United	Toggle	44 oz/A
Helena	Coron +B	1 gal/A
Winfield United	Symbol Release	32 oz/A
	CHECK/ UNTREATED	

Results – Soybean Foliar Fertilizers and Stress Reduction:

Research and Technology Plots- Agtegra Miller Foliar Fertilizers - R2 Timing Dicamba Tolerant Soybeans



Soybean Variety: AG17X7, planted at 160,000 seeds per acre population

Planting Date: Planted on 5-25-18

Plots Sprayed: 7-9-18 @ R2 growth stage



Key Observations – Foliar Fertilizers and Stress Reduction:

- The Prescription Agronomy product MicroSul 503B performed extremely well, showing an average yield gain of 5.67 bushels per acre over untreated plots. This product gives a high load zinc and other micronutrients and is an excellent value to growers.
- Treatments containing higher micronutrient loads such as MicroSul 503B Max-In Zn + Max-In B or Helena Ele-Max Hi-Phos LC 8-30-2 performed well across replications
- Plot was very dry, but received timely rainfall, so yields were adequate.
- **MICROSYNC brands:** These products outperformed zinc sulfate alone by a significant margin. Further study of these brands is needed to evaluate performance.
- **Sul4R Plus brands:** Novel calcium sulfate products with added micronutrients. Further field testing is needed on these brands to determine if the response is micronutrients or from calcium and sulfur.

2018 Plot Setup Information:

- Plot located at the Agtegra Miller location in the Research and Technology demonstration plots
- Variety: Asgrow 17X7 planted at 160000 plants per acre in 30" rows
- Plots planted May 25, 2018
- Plots Sprayed at R2 growth stage on July 9, 2018