

RESEARCH FOR RESULTS



Western Illinois University Foliar Fertilizer Experiment on Soybeans

LOCATION: WIU Allison Research Farm Fields 4-1 & 4-2.
PLOT SIZE: 4-Row plot lengths = about 70' (a 2-row buffer was between each plot).
VARIETY: Blue River Hybrid 34A7 Soybeans -- planted 6/3/15.
TREATMENT: Treatments were sprayed between noon and 1 pm on 8/11/15 using a university 4-row hand sprayer.
CONDITIONS: Temperature was about 80°F and wind was mostly from the North at 10 mph or more.
HARVEST: Reps 1-3 harvested 10/19/2015 & Reps 4-9 harvested 10/22/2015

| Field | Rep | Treatment | Weight | Harvested Plot Length | | Acres | Raw Yield | Moisture % | Yield | Paired Differences |
|-------|-----|-----------|--------|-----------------------|--------|--------|-----------|------------|-------|--------------------|
| | | | | Feet | Inches | | | | | |
| 4-2 | 4 | 1 | 5645 | 32 | 4 | 0.0037 | 55.8373 | 10.3 | 56.8 | -2.5 |
| 4-2 | 5 | 1 | 6490 | 32 | 11 | 0.0038 | 63.0579 | 10.1 | 64.3 | 0.5 |
| 4-1 | 6 | 1 | 5400 | 31 | 6 | 0.0036 | 54.8269 | 10.1 | 55.9 | -0.8 |
| 4-1 | 7 | 1 | 6240 | 35 | 6 | 0.0041 | 56.2169 | 10.2 | 57.3 | 4.6 |
| 4-1 | 8 | 1 | 5995 | 34 | 7 | 0.0040 | 55.4413 | 10 | 56.6 | -0.9 |
| 4-1 | 9 | 1 | 5530 | 32 | 2 | 0.0037 | 54.9832 | 10.1 | 56.1 | 2.1 |
| 4-2 | 4 | 2 | 3620 | 19 | 10 | 0.0023 | 58.3746 | 10.4 | 59.4 | |
| 4-2 | 5 | 2 | 5680 | 29 | 0 | 0.0033 | 62.6413 | 10.2 | 63.8 | |
| 4-1 | 6 | 2 | 5595 | 32 | 2 | 0.0037 | 55.6295 | 10.2 | 56.7 | |
| 4-1 | 7 | 2 | 5710 | 35 | 5 | 0.0041 | 51.5631 | 10 | 52.7 | |
| 4-1 | 8 | 2 | 5720 | 32 | 5 | 0.0037 | 56.4337 | 10.1 | 57.6 | |
| 4-1 | 9 | 2 | 5285 | 32 | 0 | 0.0037 | 52.8209 | 10 | 54.0 | |

Treatment 1 = SB4400+eFISHnt
 Treatment 2 = control

| Avg. Yields (Bu/A) | |
|--------------------|------|
| Treatment 1 | 57.9 |
| Treatment 2 | 57.4 |

Soybeans were in the R3-R4 stage at time of Foliar spray application

Rate of SoilBiotics "eFISHnt" = 2 qts/ac
 Rate of SoilBiotics "SB4400" = 1 pint/ac
 (total rate of products with water = 15 gal/ac)

Reps 1-3 were eliminated due to compromised data from strong winds during harvest.