

**Experiment Info:**

Planted:	6/4
Variety:	Southern States RT-4700
Population:	133,294
Row Spacing:	20"
Plot Size:	9 rows x 30'
Replications:	4

**Objective:**

Evaluate foliar applied fertilizer programs for effect on soybean yield in Maryland when applied with and without Headline fungicide.

These treatments were conducted under the supervision of Mr. Ron Mulford, retired researcher from this facility, but still active in field plot research. The official name of the research station is the Lower Eastern Shore Research and Education Center, Poplar Hill Facility. Fertilizers were applied with a backpack sprayer in two timings: July 9 at 3 to 4 trifoliolate, and on July 25 to soybeans in full bloom with some lower pods in development (R3). Fertilizers were applied in a total carrier volume of 20 .1 gal/A at 30 psi using 11003 flat fan spray tips. There was an application of 50 gal/A of 2-4-12 in combination with a burn-down application of Gramoxone and Dual ii Magnum. Treatment yields are in the following table.

	Treatment:	Rep 1	Rep 2	Rep 3	Rep 4	Ave
11	Urea @ 18 lbs/a. Made a 9% solution of urea and water.	71.7	68.1	65.4	69.9	68.8
12	Monty's Plant and Soil Products Agrihance V @ 2 qts/a + 1 pt/a of Monty's Plant and Soil Products Manganese.	72.6	65.4	63.6	66.3	67
13	Monty's Plant and Soil Products Agrihance V @ 2 qts/a + 1 pt/a of Monty's Plant and Soil Products Manganese + BASF Headline Fungicide @ 10 oz/a.	75.4	70.8	69	73.6	72.2
14	Grower's 10-20-10 @ 2 gal/a. + Growers NA @ 8.5 oz/a.	66.3	67.2	65.4	57.2	64
15	Grower's 10-20-10 @ 2 gal/a. + Growers NA @ 8.5 oz/a + BASF Headline Fungicide @ 10 oz/a.	73.6	69	73.6	72.6	72.2
16	AgroCulture Liquid Fertilizer ProGerm(9-24-3) @ 1 gal/a + ACLF Sure K(2-1-6) @ 2 gal/a + ACLF Micro 500 @ 2 qts/a + ACLF Manganese @ 1 pt/a + ACLF Liquid Boron @ 1 pt/a + ACLF Ferti-Rain @ 1 gal/a.	71.7	68.1	62.7	71.7	68.6
17	AgroCulture Liquid Fertilizer ProGerm(9-24-3) @ 1 gal/a + ACLF Sure K(2-1-6) @ 2 gal/a + ACLF Micro 500 @ 2 qts/a + ACLF Manganese @ 1 pt/a + ACLF Liquid Boron @ 1 pt/a + ACLF Ferti-Rain @ 1 gal/a + BASF Headline Fungicide @ 10 oz/a.	79	74.5	73.6	69	74
18	Honeywell's Soluble Ammonium Sulfate(21-0-0-24) @ 2 lbs/a + Miller Chemical & Fertilizer Corporations Nutrient Express(4-41-27) @ 5 lbs/a.	72.6	67.2	63.6	66.3	67.4
19	10-34-0 @ 3 qts/a mixed with Avail for P @ 1.1 oz/a + AgroCulture Liquid Fertilizers Sure K(2-1-6) @ 2 gal/a + ACLF Manganese @ 1 pt/a + ACLF Liquid Boron @ 1 pt/a + ACLF Ferti-Rain @ 1 gal/a.	70.8	65.4	69.9	69	68.8
20	10-34-0 @ 3 qts/a mixed with Avail for P @ 1.1 oz/a + AgroCulture Liquid Fertilizers Sure K(2-1-6) @ 2 gal/a + ACLF Manganese @ 1 pt/a + ACLF Liquid Boron @ 1 pt/a + ACLF Ferti-Rain @ 1 gal/a + BASF Headline Fungicide @ 10 oz/a.	71.7	68.1	70.8	76.3	71.7
21	Actagro's Phocon @ 2.0 qts/a + BASF Headline Fungicide @ 10 oz/a.	74.5	69	69.9	76.3	72.4
22	No Foliar treatment	67.2	65.4	71.7	69.4	68.4
23	Headline Fungicide Only @ 10 oz/a	70.8	68.9	69.9	71.3	70.2

LSD(0.5): 4.2. LSD(0.1): 3.4. CV: 5.6%

**Conclusions:**

- Highest yield was obtained with the multi-product AgroLiquid application that also had Headline Fungicide. This treatment was significantly higher in yield than the application of Headline only.
- The yield from the application of Headline only (trt 23) was not significantly different from the No Foliar treatment (trt 22). But the Headline did increase the yield of all of the foliar fertilizer treatments, which surprisingly did not have a yield-increasing response without Headline.