



PRACTICAL FARM RESEARCH

Soybean Foliar Feed Study – 2007

Planted: May 8, 2007
Harvested: October 11, 2007
Rows: Twelve 30" rows
Seeding Rate: 165,000 seeds/A.
Product Tested: BECK 342NRR

Previous Crop: Corn
Tillage: Chisel / Field Cultivator
Herbicide: Roundup UltraMax

RAINFALL	
April	5.54 in.
May	2.29 in.
June	2.83 in.
July	3.48 in.
August	<u>2.09 in.</u>
Total	16.23 in.

Purpose: This study was conducted to test foliar fertilizers that might be added to fungicide and/or insecticide applications or used as stand alone treatments for soybeans. The Monty's fertilizer uses a humic acid base for high nutrient availability at low volumes that is to be used in combination with an existing dry fertilizer program. A Seed Starter (4-15-12) is applied in-furrow at planting, a Growth Formula (8-16-8) is foliar applied at V4, and a Root and Bloom (2-15-15) is applied foliar at R2. All three treated replications had all three fertilizer components applied.

Foliar Fertilizer Application ^{^^}	Bushels Per Acre*	\$ Gross Return [^]	Bu./A. Advantage for Monty's	\$ Return Advantage
Monty's Fertilizer System	68.4	\$564.30	0.9	-\$10.08
No Fertilizer	67.5	\$556.88		

*Bushels per acre corrected to 13% moisture. Weighed by: BECK'S Hybrids – Jason Webster.

[^]Soybean price based on \$8.25/Bu. average. 24 oz. Seed Applied Starter \$7.50/A. 16 oz. 8-16-8 Applied at V4 \$5.00/A. 16 oz. 2-15-15 at R2 \$5.00/A.

Summary: The Monty's Plant Food fertilizer program did in fact increase yields, but only by 0.9 Bu./A. The total cost of all applications was \$17.50/A. and break-even yield for the fertilizer program was 2.12 Bu./A., thus we encountered a net loss of -\$10.08/A. The soybean yields on this plot were very good at nearly 70 Bu./A. In a lower yielding environment, the fertilizer program could have possibly done better.



PRACTICAL FARM RESEARCH

Manganese Foliar Study on Soybeans – 2007

Planted: May 5, 2007
Harvested: October 10, 2007
Rows: Twelve 30" rows
Product Tested: BECK 321NRR

Seeding Rate: 165,000 seeds/A.
Previous Crop: Corn
Tillage: Field Cultivator
Herbicide: Roundup Original Max

RAINFALL	
April	5.54 in.
May	2.29 in.
June	2.83 in.
July	3.48 in.
August	<u>2.09 in.</u>
Total	16.23 in.

Purpose: To evaluate foliar manganese applications on R2 soybeans. There is some thought in the marketplace that Roundup Ready soybeans can show Manganese deficiencies. In this trial we are foliar applying a 5% Manganese Chelate at a rate of 2 Quarts/acre to BECK 321NRR soybeans.

	Bushels Per Acre*	
	No	2 qts./A. Mn.
Rep 1	59.9	60.1
Rep 2	59.4	59.9
Rep 3	<u>59.2</u>	<u>60.1</u>
AVERAGE	59.5	60.0

*Bushels per acre corrected to 13% moisture.
 Weighed by: BECK'S Hybrids – Jason Webster.

Summary: Manganese Chelate applications showed a 0.50 Bu./A. yield increase over the untreated strips. At \$8.25/Bu. soybeans, this is a \$4.29 gross return. However, when we consider the cost of 2 quarts of Manganese Chelate at an estimated \$5.00/A. and an application cost of \$5.00/A., the foliar Manganese applications resulted in a -\$5.70 net loss per acre.