



Foliar Fungicide and Insecticide Study – 2009

Planted: May 21, 2009
Harvested: October 5, 2009
Rows: Eleven 15" rows
Seeding Rate: 148,000 seeds/A.
Product Tested: BECK 400NR™*

Previous Crop: Corn
Tillage: Fall Chisel / Field Cultivator (three times)
Herbicide: Early Post: 25 oz. Cornerstone
 Early Post: 4 oz. Shadow
 Post: 32 oz. Cornerstone

RAINFALL	
April	7.0 in.
May	5.9 in.
June	4.1 in.
July	7.2 in.
August	1.4 in.
Total	25.6 in.

Purpose: In recent years, interest in using fungicides to control foliar diseases in soybeans has grown, as the threat of Asian Soybean Rust moving into the southern United States has increased. Although rust was discovered in many counties throughout Beck's southern marketing area this fall, it has yet to be detrimental to Beck's growers. Testing of foliar fungicides in preparation for Rust control has led to the discovery that these products could be used for other yield enhancing qualities due to their ability to maintain plant health and seed quality. This test is our continued look into the usefulness of these products for our growers.

2009 Summary

Insecticide and/or Fungicide Application	Date Sprayed	Growth Stage	Bushels Per Acre [†]	Yield Advantage	Return on Investment [^]
Mustang Max	July 10	R2	65.2	-5.9	-\$67.44
Untreated			71.1		
Headline			72.1	+1.0	-\$12.36
Headline/Mustang Max			74.9	+3.8	\$8.78
Mustang Max	July 16	R2	70.6	-2.0	-\$30.20
Untreated			72.6		
Headline			71.6	-1.0	-\$31.46
Headline/Mustang Max			70.4	-2.2	-\$48.52
Mustang Max	July 24	R3	67.0	-1.9	-\$29.25
Untreated			68.9		
Headline			69.2	+0.3	-\$19.05
Headline/Mustang Max			73.8	+4.9	\$19.28
Mustang Max	August 1	R4	67.1	-0.7	-\$19.05
Untreated			67.8		
Headline			68.4	+0.6	-\$16.18
Headline/Mustang Max			71.8	+4.0	\$10.69
Mustang Max	August 7	R5	67.8	-1.5	-\$25.43
Untreated			69.3		
Headline			67.0	-2.3	-\$43.88
Headline/Mustang Max			73.6	+4.3	\$13.56

4 Year Summary

Insecticide and/or Fungicide Application	Growth Stage	Bushels Per Acre [†]	Yield Advantage	Return on Investment [^]
Headline/Pyrethroid Insecticide	R2	73.6	2.1	-\$7.69
Headline	R2	72.6	1.0	-\$11.92
Pyrethroid Insecticide	R2	70.1	-1.4	-\$24.80
Untreated	R2	71.5	----	----
Headline/Pyrethroid Insecticide	R4	76.2	4.7	\$27.45
Headline	R4	75.5	4.0	\$26.45
Pyrethroid Insecticide	R4	72.6	1.1	\$9.79
Untreated	R4	70.4		

[†]Bushels per acre corrected to 13% moisture.

*XL Brand is distributed by Beck's Superior Hybrids, Inc.

[^]Return on Investment (ROI) based upon yield advantage of application minus the cost of product and application charge. Costs were based on \$16.40/A. for 6 oz. of Headline, \$5 for 2.5 oz. of Mustang Max, \$2.00/A. for additives, and \$5.50/A. average application charge. Soybean price based on \$9.55/Bu. average.



Foliar Fungicide and Insecticide Study – Continued

Summary: The data collected from the Southern PFR farm showed mixed results for using fungicides and insecticides on soybeans in 2009. Applications of a fungicide (Headline®) or pyrethroid insecticide (Mustang Max™) alone did not provide a positive return on investment this year, regardless of the growth stage in which they were applied. However, four out of the five applications where a fungicide and insecticide were applied together provided significant profits. The average yield advantage for the fungicide and insecticide combination was 3 Bu./A. Similar to historic data from this site, the application of a fungicide and insecticide together yielded less at the R2 growth stage than at the later R3, R4, and R5 stages.

The four year summary shows only marginal yield gains that did not produce a profitable return, regardless of product applied at the R2 growth stage. Applications of a fungicide, insecticide, or the combination of the two have all provided significant returns on investment when applied at the R4 growth stage according to the four year average. Data collected over the past four years suggests that fungicides will provide more consistent returns in years with adequate to above normal rainfall. Insecticides, on the other hand, have shown more consistent returns when conditions are drier.



Soybean Foliar Feed Study – 2009

Planted: May 21, 2009
Harvested: October 5, 2009
Rows: Eleven 15" rows
Seeding Rate: 130,000 seeds/A.
Previous Crop: Corn
Replications: Two (averaged)

Tillage: Chisel / Field Cultivator (three times)
Herbicide: Early Post: 24 oz. Cornerstone
 4 oz. Shadow
 Post: 32 oz. Cornerstone
Product Tested: BECK 491NR™*

RAINFALL	
April	7.0 in.
May	5.9 in.
June	4.1 in.
July	7.2 in.
August	1.4 in.
Total	25.6 in.

Purpose: To evaluate the use of foliar fertilizers applied to soybeans at various growth stages.

Foliar Fertilizer Application	Growth Stage	Bushels Per Acre [†]	Yield Advantage	Return on Investment [^]
Untreated		74.8		
2 qts. Ele-Max® ENC 5-4-2 + Mn	V6	68.5	-6.3	-\$73.67
Untreated		70.3		
1 gal. CoRoN® 10-0-10 + Boron	R4	71.6	+1.3	-\$0.58

[†]Bushels per acre corrected to 13% moisture.

[^]Return on Investment (ROI) based upon yield advantage of application minus the cost of product and application charge. Costs were based on \$8.00/A. for 2 qts. of Ele-Max® ENC 5-4-2 + Mn, \$7.50/A. for 1 gallon of CoRoN® 10-0-10 + Boron, and \$5.50/A. average application charge. Soybean price based on \$9.55/Bu. average.

*XL Brand is distributed by Beck's Superior Hybrids, Inc.

Summary: Although the application of 1 gallon of CoRoN® at the R4 growth stage increased yields by 1.3 Bu./A., there wasn't a high enough increase in revenue to pay for both the product and application. This product is a foliar nitrogen fertilizer that also contains potash and boron. The Ele-Max® ENC product did not provide a yield advantage in this study when sprayed at the pre-bloom (approximately V6) growth stage. It is a 5-4-2 foliar fertilizer that also contains manganese.



We have planted Beck's the last 4 years and could not be happier with the service that we have received year round. Beck's is different, the service doesn't stop at the sale, it continues year round and no matter what information you need, a Beck's representative is there to help. From the sales representative all the way to the top with Sonny Beck, everyone is treated as part of the team. No one can match Beck's service, combined with the performance of the products and that is why we became a Beck's dealer."

Donald & Kenda Myers
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