

Foliar Fungicide and Insecticide Study– 2010

Planted: May 18, 2010 **Previous Crop:** Corn
Harvested: September 22, 2010 **Tillage:** Disc Ripper / Field Cultivator
Rows: Eleven 15" rows **Herbicide:** Post: 32 oz. Cornerstone
Seeding Rate: 130,000 seeds/A. **Product Tested:** BECK 445NR

RAINFALL	
April	4.0 in.
May	3.1 in.
June	2.5 in.
July	2.5 in.
August	1.4 in.
Total	13.5 in.

Purpose: In recent years, interest in using fungicides to control foliar diseases in soybeans has grown, as the reoccurrence of Asian Soybean Rust in the far southern states has increased. 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 both foliar fungicides and insecticides for our growers. This data is also part of Beck's ongoing soybean leaf wetness study.

2010 Summary

Insecticide and/or Fungicide Application	Date Sprayed	Growth Stage	Bushels Per Acre [†]	Yield Advantage	Return on Investment [^]
Mustang Max	July 1	R2	83.6	-3.8	-\$ 45.31
Untreated			87.4	----	----
Headline			87.2	-0.2	-\$ 23.78
Headline/Mustang Max			86.8	-0.6	-\$ 31.80
Mustang Max	July 8	R2	84.7	+1.8	+\$ 7.05
Untreated			82.9	----	----
Headline			81.1	-1.8	-\$ 38.74
Headline/Mustang Max			80.0	-2.9	-\$ 53.31
Mustang Max	July 15	R3	82.7	+2.4	+\$ 12.66
Untreated			80.3	----	----
Headline			84.8	+4.5	+\$ 20.17
Headline/Mustang Max			83.4	+3.1	+\$ 2.80
Mustang Max	July 22	R3	79.7	+2.9	+\$ 17.34
Untreated			76.8	----	----
Headline			85.8	+9.0	+\$ 62.24
Headline/Mustang Max			85.8	+9.0	+\$ 57.96
Mustang Max	July 30	R4	83.3	+2.8	+\$ 16.40
Untreated			80.5	----	----
Headline			83.2	+2.7	+\$ 3.34
Headline/Mustang Max			81.1	+0.6	-\$20.58

5 Year Summary

Insecticide and/or Fungicide Application	Growth Stage	Bushels Per Acre [†]	Yield Advantage	Return on Investment [^]
Fungicide & Insecticide	R2/R3	77.5	2.5	-\$ 2.57
Fungicide Only	R2/R3	75.6	0.7	-\$ 15.38
Insecticide Only	R2/R3	74.4	-0.6	-\$ 15.03
Untreated	R2/R3	74.9	----	----
Fungicide & Insecticide	R4/R5	76.6	4.9	\$ 19.30
Fungicide Only	R4/R5	75.3	3.6	\$ 11.88
Insecticide Only	R4/R5	73.5	1.7	\$ 6.57
Untreated	R4/R5	71.7		

[†]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 \$16.41/A. for 6 oz. of Headline, \$4.28 for 2.5oz of Mustang Max, and \$5.50/A. average application charge. \$9.35/Bu. soybean price.

Summary: The 2010 data shows profitable yield advantages when using a foliar fungicide both alone or in combination with a pyrethroid insecticide at the R3 growth stage. The R4 growth stage also showed a profitable response when using fungicide alone. Stand alone applications of insecticide proved to be profitable on every spray date with the exception of July 2nd. These responses correlate closely with a series of rainfall events that occurred between July 13th and July 21st resulting in 1.5 inches of rain. The five year summary suggest that likelihood of seeing profitable results from the use of foliar fungicide and insecticide applications are higher during the R4/R5 growth stage. However, studies conducting in recent years tend to trend toward a close correlation between the timing of application and rainfall events.

WHAT'S YOUR REPLANT AGREEMENT?



100%
0% 50%

Beck's founder, Francis Beck used to say, "We're not selling you a bag of seed, we're selling you a stand of corn." That business philosophy continues today at Beck's Hybrids. Unlike our competitors, Beck's still offers a 100% Free Replant Agreement on every bag of Beck's seed corn, soybeans, wheat, and elite alfalfa (including royalties). No paperwork, no hassles. Experience the difference, plant Beck's.

Experience the Difference. Plant Beck's.