

BECK'S Fungicide Timing & Population Study - 2006

Location: H1, H2 plot
Planted: April 24, 2006
Harvested: September 30, 2006
Rows: Twelve 15" rows
Seeding Rate: Various

Previous Crop: Corn / Soybeans
Tillage: No-Till
Herbicide: 26 oz. Roundup Original Max

RAINFALL	
April	3.6 in.
May	4.5 in.
June	4.6 in.
July	4.4 in.
August	4.0 in.
Total	21.1 in.

Purpose: We designed this study to evaluate how row spacing, population, and timing of foliar fungicide Headline affects yield.

	<u>Beans after Corn</u>				<u>Beans after Beans</u>				Bu./A.* Average each Pop.
	Drive Path	No Fungicide	R2	R4	Drive Path	No Fungicide	R2	R4	
BECK 274NRR									
110,000 seeds/A.			57.6	57.8			65.6	66.9	62.0
150,000 seeds/A.	<u>59.4</u>	<u>60.4</u>	<u>55.8</u>	<u>64.8</u>	<u>74.0</u>	<u>69.0</u>	<u>68.0</u>	<u>69.7</u>	<u>65.1</u>
AVERAGE	59.4	60.4	56.7	61.3	74.0	69.0	66.8	68.3	63.6
BECK 342NRR									
110,000 seeds/A.			68.0	67.9			68.2	75.9	70.0
150,000 seeds/A.	<u>72.6</u>	<u>69.2</u>	<u>71.8</u>	<u>70.7</u>	<u>71.2</u>	<u>75.0</u>	<u>71.5</u>	<u>76.1</u>	<u>72.3</u>
AVERAGE	72.6	69.2	69.9	69.3	71.2	75.0	69.9	76.0	71.1
OVERALL AVERAGE	66.0	64.8	63.3	65.3	72.6	72.0	68.4	72.2	67.4

Summary: In this study, the overall yield results showed no significant yield benefit to spraying fungicide.

Other noted results were:

- 1.) Soybeans sprayed at R4 stage averaged about 3 Bu./A. more than those sprayed at R2.
- 2.) Beans after beans out-yielded beans after corn.
- 3.) BECK 342NRR out-yielded BECK 274NRR.
- 4.) 150,000 seeds/A. out-yielded 110,000 seeds/A. which would be expected in 15" rows.

We purposely planted a low rate in the event that Asian soybean rust occurred to see if a lower population would be an effective management practice.

BECK'S Foliar Fungicide and Insecticide Study – 2006

Location: 300-5 S
Planted: May 6, 2006
Harvested: October 3, 2006
Seeding Rate: 105,000 seeds/A.
Product Tested: BECK 321NRR

Previous Crop: Corn
Tillage: Conventional
Herbicide: 22 oz. Roundup Original Max
 9 lbs./100 gal. Array

Purpose: This study was designed to demonstrate the use of insecticides and fungicides to protect the growth of soybeans.

Treatment	Plant Height (IN.)	Pod Height (IN.)	Standability		Bushels* Per Acre
			1 = Erect	5 = Flat	
Quadris (full bloom)	44	4.0	1.5		78.5
Warrior (full pod)	42	3.0	1.7		77.1
Quadris + Proaxis (full bloom & 2 weeks)	42	4.0	1.6		77.0
Quadris + Proaxis (full bloom)	42	4.0	1.5		76.3
Check	42	4.0	1.6		73.1
CoRoN	38	4.0	1.5		70.9
Quadris (full bloom & 2 weeks)	<u>44</u>	<u>4.0</u>	<u>1.6</u>		<u>70.0</u>
AVERAGE	42	3.9	1.6		74.7

*Bushels per acre corrected to 13% moisture.

Summary: Small strip tests such as this one are used to demonstrate the techniques and applications of fungicides and insecticides. Similar to past studies of the same nature, we saw a benefit in the use of fungicides and insecticides to increase yield potential. To understand the full economic benefit, we recommend evaluating larger scale studies.