

100 Bushel Soybean Management Study – 2009

Location:	S1 plot	Previous Crop:	Corn
Planted:	May 21, 2009	Tillage:	No-Till
Harvested:	October 21, 2009	Herbicide:	32 oz. Durango
Rows:	Eleven 15" rows	Product Tested:	8 oz. Domain
Seeding Rate:	Various		BECK 362NR™*
			BECK 399NR

RAINFALL	
April	7.3 in.
May	4.5 in.
June	5.6 in.
July	2.3 in.
August	3.0 in.
Total	22.7 in.

Purpose: In an effort to reach our 100 Bu./A. yield goal, we developed two different methods; a high input trial where we applied various treatments on a planned regimented schedule, and a scouting trial where we spent more time scouting to determine the inputs we needed to apply and when to apply them. The goal is to evaluate the yield results of different management styles: managing with higher inputs and less scouting, or more scouting and perhaps fewer inputs.

Brand	Base Treatment	Bushels Per Acre [†]	Advantage for Treatment Bu./A. [†]
High Input Trial			
BECK 362NR™*	Escalate + Protinus (Treated)	68.3	+0.1
BECK 362NR™*	Escalate + Protinus (Control)	68.2	
BECK 399NR	Escalate + Protinus (Treated)	63.8	+1.2
BECK 399NR	Escalate + Protinus (Control)	<u>62.6</u>	
	AVERAGE	65.7	

Pre-planned Treatments

July 1st (Burndown) – 15 gal. water, 3.8 oz. Leverage 1 gal. Nitamin 1 qt. Agra Mix
 July 7th – 15 gal. water, 32 oz. Roundup, 1.5 lbs. AMS, 1 gal. Nitamin, 1 qt. Agra Mix
 July 14th – 15 gal. water, 2 qt. 10% Manganese
 July 25th – 15 gal. water, 3.8 oz. Leverage, 2 qt. Nitamin, 6 oz. Headline, 1 pt. Agra Mix
 August 25th – 20 gal. water, 4 oz. Hero (insecticide), 2 oz. Tilt, 4 oz. Quadris, 1 pt. Agra Mix
 August 31st – 15 gal. water, 1 gal. Nitamin, 1 qt. Sevin.
 September 7th – 15 gal. water, 1 gal. Nitamin, 1 qt. Sevin.

Scouting Trial

BECK 362NR™*	Escalate + Protinus (Treated)	67.5	+1.7
BECK 362NR™*	Escalate + Protinus (Control)	65.8	
BECK 399NR	Escalate + Protinus (Control)	55.4	
BECK 399NR	Escalate + Protinus (Treated)	<u>55.6</u>	+0.2
	AVERAGE	61.1	

Treatments based on Scouting

July 7th – 15 gal. water, 32 oz. Roundup, 1.5 lbs. AMS.
 July 25th – 15 gal. water, 3.8 oz. Leverage, 6 oz. Headline.

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

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

Summary: Late planting reduced our chances to reach our 100 Bushel yield goal, but even more surprising is the lack of significant yield difference produced by all of the various treatment applications. Other plots with fungicide and insecticides applied showed greater responses than this study where we were anticipating a greater response due to the frequency of applications and the variety of treatments we applied.

Leverage®: Insecticide that has two modes of action against sucking and chewing pests – one delivers fast knockdown, the other extends residual control.

Protinus™: A seed treatment that promotes early plant health and growth by delivering zinc, manganese and iron right to the seed. This can lead to increased root mass, better vigor and early emergence. Protinus helps to lower the pH in the zone immediately around the seed thus allowing important nutrients to be more easily absorbed.

Nitamin® 30L: The water-soluble liquid is a blend of methylene urea, urea, and triazone that contains 30% nitrogen, of which 60% is slowly available. The remaining 40% is urea, which provides a readily-available nitrogen component.

Krystal Klear®

Agra Mix: Foliar micronutrient solution containing: 2% copper, 2% Manganese, 2% Zinc, .5% Boron.

Hero™: A new generation foliar insecticide from FMC. Hero provides fast knockdown and longer-lasting control against a broad spectrum of pests including mites, aphids, bean leaf beetles, corn earworms, fall armyworms, and many other yield-robbing insects.

Leverage is a registered trademark of Bayer CropScience. Protinus is a trademark of Wolf Trax. Nitamin is a registered trademark of Georgia-Pacific. Krystal Klear Agra Mix is a registered trademark of Performance Nutrition™. Hero is a trademark of FMC.