# 2009

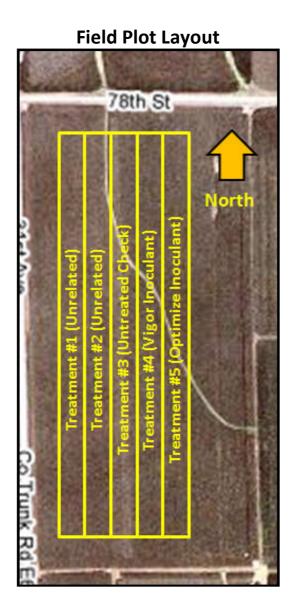
# **Inoculant Test Plots**



# 2009 Kevin Miller Field Treatments Planted May 23, 2009

Treatment	Product	Rate	Function		
Treatment #3	Untreated Check				
Treatment #4	Vigor Soybean Inoculant (KALO)	3.38 fl. oz. / cwt	Inoculant		
Treatment #5	Optimize Soybean Inoculant (EMD)	4.25 fl. oz. / cwt	Inoculant		

Treatments 1 & 2 are unrelated to this study.









### Grower Plot Preparation and Planting Form Seed Treatment Performance Study

Produ	cer/Cooperator	Contact Information (address & ph#'s)	Field Name, Description & Location			
Kevin Miller		3018 78 <sup>th</sup> St. Norway Iowa, 52318 Cell# 319-560-2645	Utoff 80 Northwest			
General Study Info	mation					
Target Crop/Seed	Technology Being Evaluated:	Evaluation Purpose or Objective:				
Soybeans	Vigor Soybean Inoculant	t Evaluate KALO's Vigor Soybean Inoculant against Optimize (EMD) and record development progress and yield comparison at harvest.				

#### Seed & Treatment Information

<b>Current Seed Variety I</b>	nformation								
Seed Brand	Variety, Lot# & GMO Traits		% Germ	Number of Seeds per pound	How Delivered to Producer				
Pioneer	93M11 - Rou	undup Ready	90%	3450	☐ Bag/Units				
Individual Plot Treatm	ents (List all plo	ts including ur	ntreated chee	ck, if any)					
Product(s)	Function (Insecticide/Fungicide/ Nutritional/Inoculant/etc.)	Rate (Per cwt, per seed, etc.)	Date of Seed Treatment	Seed Treatments Applied by:					
<u>Treatment Number</u> (Sp	pecify): #3 -	UTC	Estimated P	Plot Size: 15 Acres Plot Specific Comments:					
Untreated Beans				Applied by: Dealer Producer Seed House Other: Dave L.					
				Applied by: Dealer	Producer Seed House Other:				
				Applied by: Dealer	Producer Seed House Other:				
				Applied by: Dealer	Producer Seed House Other:				
				Applied by: Dealer Producer Seed House Other:					
				Applied by: Dealer Producer Seed House Other:					
<u>Treatment Number</u> (Sp	pecify): #4 -	Vigor	Estimated P	Estimated Plot Size: 15 Acres Plot Specific Comments:					
Vigor (KALO)	Liquid Inoculant	3.38 fl oz/cwt	5/23/09	Applied by: Dealer	Producer Seed House Other: Dave L.				
				Applied by: Dealer	Producer Seed House Other:				
				Applied by: Dealer	Producer Seed House Other:				
				Applied by: Dealer	Producer Seed House Other:				
				Applied by: Dealer	Producer Seed House Other:				
				Applied by: Dealer	Producer Seed House Other:				
<u>Treatment Number</u> (Sp	pecify): <mark>#</mark> 5 -	Optimize	Estimated P	lot Size: 15 Acres	Plot Specific Comments:				
Optimize (EMD)	Liquid Inoculant	4.25 fl oz/cwt	5/23/09	Applied by: Dealer	Producer Seed House Other: Dave L.				
				Applied by: Dealer	Producer Seed House Other:				
				Applied by: Dealer Producer Seed House Other:					
				Applied by: Dealer	Producer Seed House Other:				
				Applied by: Dealer Producer Seed House Other:					
				Applied by: Dealer Producer Seed House Other:					

#### Other Comments:

Plots #1 & #2 are not related to this study.

Inoculant was diluted with well water (Norm Miller residence) and applied at a rate of 9 fl. oz. / cwt of seed.

#### Field Information

Field / Plot & Tillage Information										
Field Size		Previous Cro	р		Field Landscape					
80 Acres	Corn Corn Silage Soybeans	Wheat Milo/Sorghum	Fallow Other (Spe	cify)	Upland Bottom G		aced Other (specify)			
Field	d Tillage		Irrigation		Field Specific Comments					
	Conventional Till       None       Sub-surface         Other (specify)       Sprinkler       Other (specify)         Flood       Information									
Soil Te	ests		Nutrien	t Informat	tion		Other: (Manure, etc.)			
Is a recent soil test a Yes (Please make a include if possible) No Comments:	available and )	Soil Type/Texture Soil pH Organic matter CEC	~6	N P K	S Mg Ca Zn	Mn Fe Cu B	No Yes (specify)			

#### Day of Planting Information

Plot Planting D	ate									
5/23/09										
Target Yield & Pla	Inting Infor	mation								
Yield Target	Seeding	Population	Planting Dep	oth			Comment	S		
50-55 Bu/A	165,00	0 Seeds/A	1.50 Inche	s						
Seedbed Conditio	ons									
General Seedbed	Conditions	Amount of	of Crop Residue		Soil Moist	ure	Soil T	Soil Temperature at 3" depth		
Excellent       High         Good/Excellent       Medium/H         Good       Medium         Poor/Good       Low/Medium         Poor       Low         Comments: Some small clods, but a pretty good seed bed overall.       Comments:			0	☐ Wet ☐ Good/Wet ☑ Good ☐ Dry/Good ☐ Dry Comments:			↓ 45-46       57-58       ▲ 69-70         ↓ 47-48       59-60       ↑ 71-72         ↓ 49-50       ↓ 61-62       ↑ 73-74         ↓ 51-52       ↓ 63-64       ↓ 75-76         ↓ 53-54       ↓ 65-66       ↓ 77-78         ↓ 55-56       ↓ 67-68       □:			
Weather Condition		Air Temperat	ture (Approx.)	Humidity General V		Weather Condi	Weather Conditions 1-5 days Before Planting			
Sunny       41-45°F       71         ☑ Partly Cloudy       46-50°F       76         ☑ Cloudy       51-55°F       81         ☑ Sprinkles       56-60°F       86			71-75°F       76-80°F       81-85°F       86-90°F       90-95°F       :     °F	High Medium/High Low/Medium Low Comments:		U Wet Good Good	Good/Wet			
Planter or Drill	Make, Mode	el & Year I	Number of Rows o	or Width				Comments		
CIH 5400 So	ybean Spec	ial Drill	20'		15'					

General Field & Plot Layout (indicate North arrow) and Comments: See Map





Vigor (KALO)



## **Optimize (EMD)**

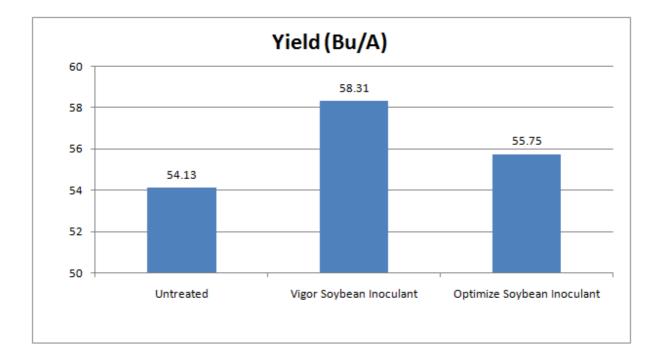


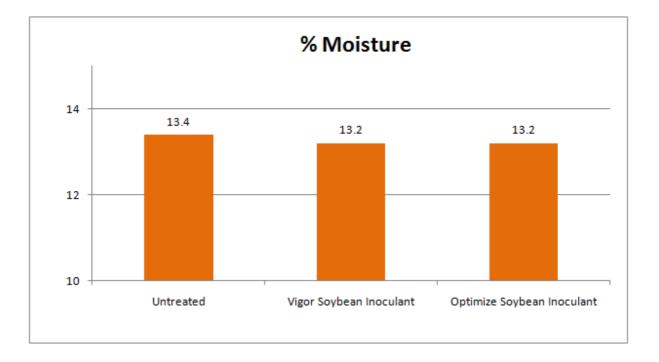
## **Harvest Tracking Form - Soybeans**

					<b>J</b> · · ·			<b>J</b> BGGI			
Cooperator		Harve	ester/Oper	ator	Da	te of Harve	est	Field Name			
Kevin Miller		Ke	evin Mille	r		11/05/09		Utoff 8	30 Northwest		
Harvest Equipment Info											
Harvester Make, Model & Year			Header Width					Comments			
			20 Ft. or Rows								
Method to Capture Yield Data											
Weigh Wagon Make & Parker Model 1500R (Ag			If using an alternate means to verify yield, indicate below. (i.e., yield monitor, elevator scale, etc.)								
Weigh Tronix Scale Mod											
Day of Harvest In	format	ion									
Field & Crop Conditions									-		
General Field C					vest Cond						
☐ Excellent ☐ ☐ Good/Excellent ☐ ☐ Good	Poor/Good Poor		Excellent			or/Good or					
Weather Conditions									-		
Sky Conditions		mperature			nidity	1			days Before Harvest		
Sunny Sarly Cloudy	41-4		′1-75°F ′6-80°F	🗌 High 🗌 Medi	um/High	Wet Good/We	Comm et	ients:			
	51-5		81-85°F	🗌 Medi		Good					
Sprinkles	56-6 61-6		86-90°F 90-95°F	Low/I	Medium	Dry/Good	d				
Other:	66-7										
Plot Harvest Info	rmatio	า									
Plot #3 Plot Harvest Dat											
Plant Heig			Pod Height				Overall Plant Health & Harvestability				
Range	Average		Range		Average			cellent	Poor/Good		
- inches	- inches	;	- incl	nes		- inches					
Actual Size of Harvested P	lot 1	Total Poun	ds Harveste	d		Test Weight					
4.16 acres		13	3, <b>512</b> pound	ls		- lb/bu			13.4 %		
Total Bushels Harvested	Calcula	ited bu/A			in Quality			Comn	nents		
225.2 bushels	54.13	bu/Acre	Exce	d/Excelle		Poor/Good Poor					
Plot #4 Plot Harvest Dat	<mark>a –</mark> Vigor S	oybean In	oculant								
Plant Heig			Po			A	Overall Plant Health & Harvestability				
Range	Average		Ran	-		Average		Excellent     Poor/Good     Good/Excellent     Poor			
- inches	- inches		- incl			- inches	G				
Actual Size of Harvested P	lot 1		ds Harveste			Test Weight	t	Per	rcent Moisture		
4.15 acres			,508 pound			- lb/bu			13.2 %		
Total Bushels Harvested	Calcula	ted bu/A			in Quality	Poor/Good		Comn	nents		
242 bushels	58.31	bu/Acre Good/Exc Good				oor/Good oor					
Plot #5 Plot Harvest Data – Optimize Soybean Inoculant											
	Plant Height				d Height	-		Overall Plant Health & Harvestability			
Range	Average	C C		Average			cellent ood/Excellent	Poor/Good Poor			
- inches	- inches		- inches		- inches		G	ood			
Actual Size of Harvested P	lot 1		ounds Harvested			Test Weight	t	Per	rcent Moisture		
4.15 acres		13	8,882 pound	ds	- lb/bu				13.2 %		
Total Bushels Harvested	Calcula	ted bu/A			in Quality			Comn	nents		
231.36 bushels	55.75	bu/Acre		llent d/Excellei d	_	Poor/Good Poor					

Other Comments: Plots 1 & 2 are unrelated to this study.

## Harvest Tracking Form - Soybeans Consolidated Results





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