

# Purdue University

Country: UNITED STATES OF AMERICA Region: NJ Trial Use: Normal  
 Discipline: HERBICIDE Sequence: 001 Year: 2008  
 Trial Id.: USNJ0H0012008 Protocol Id.: HPID01A4-2008US Revision Date: MAR05  
 Master Protocol Id.:

Trial Origin: COOPERATOR TRIAL Licensee: Dr. Bill Johnson GEP: N

Title: Prefix vs Competitive Foundation Rates in soybean

### SITE AND DESIGN

Plot Width: 10 Unit: FT Plot Length: 30 Unit: FT Plot Area: 300.0 Unit: FT<sup>2</sup> No Reps: 4 No Treats: 10

Site Description Event Date: 8/5/2008 Plot Unit: PLOT Study Design: RACOBL  
 Trial Location: Throckmorton-Purdue Ag Center Farm/Station Name: Throckmorton  
 County: Tippecanoe Farm Manager: Jay Young  
 State/Province: IN Street: 8343 US 231 S  
 Postal Code: 47909 City+State/Prov: Lafayette  
 Cooperator Name: Purdue University Postal Code: 47909  
 Coop. Trial ID: 08S-THP-CTS-32 Country: UNITED STATES OF AMERICA  
 Phone Number: 765-538--3422

Fertility  
 Level: GOOD  
 Distance to  
 Weather  
 Station:

0.5 Unit: MI

Soil Texture:  
 SILT LOAM

Closest

Weather

Station: On

research farm

Soil

Drainage:

GOOD

Tillage

Type:

CONVENTION

AL-TILL

### SITE USAGE

Site Type

FIELD

### GENERAL TRIAL INFORMATION

Initiation Date: 4/14/2008 Protocol Id.: HPID01A4-2008US

Title: Prefix vs Competitive Foundation Rates in soybean

Investigator: Dr. William G. Johns

Local Protocol Responsibility: Dain Bruns Title: R&D Scientist

Affiliation: Syngenta

### SEED DESCRIPTION

1. Date: 4/23/2008 Area: Trial Crop: GLYCINE MAX Var: AG3306

Genetic Type A: GLYPHOSATE-R

### CROP OCCURRENCE

	1.
Date:	4/23/2008
Area:	Trial
Crop:	SOYBEANS
Crop Code:	GLXMA
BBCH Scale:	BSOY
Variety:	AG 3306
Seed Description:	1
Planting Date:	4/23/2008
PL. TYPE:	PLANTING OF SEEDS
Planting Depth Min, Max, Unit:	2.0 2.0 IN

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Row Spacing, Unit:	30.0 IN
Planting Rate, Unit:	130000.0 S/A
Method:	DIRECT DRILLED
Genetic Type A:	GLYPHOSATE-R

**PEST OCCURRENCE**

	1.	2.	3.
Date:	5/19/2008	5/19/2008	7/10/2008
Area:	Trial	Trial	Trial
Pest:	AMBROSIA TRIFIDA	SETARIA FABERI	ABUTILON THEOPHRASTI TR
Pest Code:	AMBTR	SETFA	ABUTH
Stage Scale:	BBCH	BGRM	BBCH
OCCURRENCE TYPE:	UNKNOWN	UNKNOWN	UNKNOWN

**CROP DEVELOPMENT**

	1.	2.	3.	4.	5.	6.	7.	8.
Date:	4/23/2008	4/27/2008	5/12/2008	5/19/2008	6/10/2008	6/19/2008	6/17/2008	6/19/2008
Crop:	1 SOYBEANS	1 SOYBEANS						
Crop Code:	GLXMA	GLXMA						
BBCH Scale:	BSOY	BSOY						
Variety:	AG 3306	AG 3306						
Dev. Stage Min, Max:	00 00	01 01	10 10	10 10	13 15	14 15	13 15	14 15
Height Min, Max, Unit:			0.0 1.0 IN	1.0 2.0 IN	4.0 5.0 IN	5.0 6.0 IN	8.0 12.0 IN	8.0 12.0 IN
-----								
Tree/Crop Row Volume Information								
Height Total (m):			0.01	0.04	0.11	0.14	0.25	0.25

	9.	10.	11.
Date:	7/10/2008	7/29/2008	9/25/2008
Crop:	1 SOYBEANS	1 SOYBEANS	1 SOYBEANS
Crop Code:	GLXMA	GLXMA	GLXMA
BBCH Scale:	BSOY	BSOY	BSOY
Variety:	AG 3306	AG 3306	AG 3306
Dev. Stage Min, Max:	65 00	75 75	99 99
Height Min, Max, Unit:	16.0 18.0 IN	34.0 36.0 IN	
-----			
Tree/Crop Row Volume Information			
Height Total (m):	0.43	0.89	

**PEST DEVELOPMENT**

	1.	2.	3.	4.	5.	6.
Date:	5/19/2008	5/19/2008	6/10/2008	6/10/2008	6/17/2008	6/17/2008
Pest:	1 AMBROSIA TRIFIDA	2 SETARIA FABERI	1 AMBROSIA TRIFIDA	2 SETARIA FABERI	1 AMBROSIA TRIFIDA	2 SETARIA FABERI
Pest Code:	AMBTR	SETFA	AMBTR	SETFA	AMBTR	SETFA
Stage Scale:	BBCH	BGRM	BBCH	BGRM	BBCH	BGRM
Dev. Stage Min, Max:			12 14	11 12	12 16	12 14
Density Min, Max:	5.0 10.0	500.0 800.0	2.0 20.0	25.0 75.0	2.0 20.0	25.0 75.0
Unit:	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE FOOT	PER SQUARE YARD	PER SQUARE FOOT
Height Min, Max, Unit:	0.0 4.0 IN	0.0 1.5 IN	4.0 12.0 IN	3.0 6.0 IN	4.0 16.0 IN	4.0 8.0 IN

	7.	8.	9.	10.	11.
Date:	6/19/2008	6/19/2008	7/10/2008	7/10/2008	7/10/2008
Pest:	1 AMBROSIA TRIFIDA	2 SETARIA FABERI	1 AMBROSIA TRIFIDA	2 SETARIA FABERI	3 ABUTILON THEOPHRASTI TR
Pest Code:	AMBTR	SETFA	AMBTR	SETFA	ABUTH
Stage Scale:	BBCH	BGRM	BBCH	BGRM	BBCH
Dev. Stage Min, Max:					
Density Min, Max:	2.0 20.0	500.0 800.0	2.0 25.0	500.0 800.0	1.0 2.0
Unit:	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	2.0 30.0 IN	3.0 10.0 IN	12.0 60.0 IN	10.0 24.0 IN	4.0 6.0 IN

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	12.	13.
Date:	7/29/2008	7/29/2008
Pest:	1 AMBROSIA TRIFIDA	2 SETARIA FABERI
Pest Code:	AMBTR	SETFA
Stage Scale:	BBCH	BGRM
Dev. Stage Min, Max:		
Density Min, Max:	3.0 25.0	300.0 500.0
Unit:	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	2.0 8.0 FT	10.0 36.0 IN

## WEATHER DESCRIPTION

1. Date: 4/27/2008 Air Temp. Min: 49.0 Max: 49.0 Unit: F % Rel. Humidity Min: 75.0 Max: 75.0  
 Wind Velocity Min: 4.0 Max: 5.0 Unit: MPH Wind Direction: N  
 Sky Condition: 5%
2. Date: 6/10/2008 Air Temp. Min: 78.0 Max: 78.0 Unit: F % Rel. Humidity Min: 67.0 Max: 67.0  
 Wind Velocity Min: 1.0 Max: 2.0 Unit: MPH Wind Direction: W  
 Sky Condition: 0%
3. Date: 6/17/2008 Air Temp. Min: 75.0 Max: 75.0 Unit: F % Rel. Humidity Min: 50.0 Max: 50.0  
 Wind Velocity Min: 3.0 Max: 4.0 Unit: MPH Wind Direction: W  
 Sky Condition: 0%
4. Date: 7/10/2008 Air Temp. Min: 82.0 Max: 82.0 Unit: F % Rel. Humidity Min: 63.0 Max: 63.0  
 Wind Velocity Min: 2.0 Max: 4.0 Unit: MPH Wind Direction: SW  
 Sky Condition: 20%

No.	Date	Soil Temp.	Unit	Soil Moisture Condition
1.	4/27/2008	49.0	F	MOIST
2.	6/10/2008	77.0	F	MOIST
3.	6/17/2008	18.0	C	WET
4.	7/10/2008	22.0	C	MOIST

## APPLICATION

		B	C	D
Application Date/Time:	4/27/2008 9:00 AM	6/10/2008 8:15 PM	6/17/2008 9:23 AM	7/10/2008 10:45 AM
Applied By:	GK MK	AR MK	CB VM	JM MK
Target (Crop):	2 GLXMA	5 GLXMA	7 GLXMA	9 GLXMA
Variety (Crop):	AG 3306	AG 3306	AG 3306	AG 3306
Development (Crop):	01 01	13 15	13 15	65 00
Weather:	1	2	3	4
Soil:	1	2	3	4
Application Equipment:	BACSPR	BACSPR	BACSPR	BACSPR
Pressure, Unit:	27.0 PSI	27.0 PSI	27.0 PSI	27.0 PSI
Nozzle Type:	FLAFAN	FLAFAN	FLAFAN	FLAFAN
Nozzle Description:	XR11002	XR11002	XR11002	XR11002
Nozzle Spacing, Unit:	15.0 IN	15.0 IN	15.0 IN	15.0 IN
Nozzles/Row:	8.0	8.0	8.0	8.0
Boom Length, Unit:	10.0 FT	10.0 FT	10.0 FT	10.0 FT
Boom Height, Unit:	18.0 IN	18.0 IN	18.0 IN	18.0 IN
Ground Speed, Unit:	3.0 MPH	3.0 MPH	3.0 MPH	3.0 MPH
Spray Volume, Unit:	15.0 GPA	15.0 GPA	15.0 GPA	15.0 GPA
Mix Size, Unit:	1.8 L	1.8 L	1.8 L	1.8 L
Propellent:	COMCO2	COMCO2	COMCO2	COMCO2
Water Hardness:	150.0	150.0	150.0	150.0
Dew Presence (Y/N):	N	N	Y	N
Application Method:	NONINC	NONINC	NONINC	NONINC
Application Timing:	PREPLA	EAPOWE	POSPOS	POSPOS

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<b>Applic. Placement:</b>	BROSOI	BROFOL	BROFOL	BROFOL
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No.	Date	Area	Laboratory Name	pH/KCL	pH/H2O	CEC	Soil Texture
1.	8/6/2008	Trial	A&L Great Lakes Laboratories, Inc.	6.2			13.3 SILT LOAM
<b>Soil Component:</b>							
<b>Soil Element:</b>				<b>P:</b> 34.0 PPM	<b>K:</b> 124.0 PPM	<b>Ca:</b> 1400.0 PPM	<b>Mg:</b> 430.0 PPM

**INOCULATION/  
INFESTATION**

1.	Code	Comment
1.		

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 Master Protocol Id.:

Trial Origin: COOPERATOR TRIAL Licensee: Dr. Bill Johnson GEP: N

Title: Prefix vs Competitive Foundation Rates in soybean

Assessment Date	5/12/2008 10:45 AM	5/19/2008 8:00 AM	5/19/2008 8:00 AM	5/19/2008 8:00 AM	6/19/2008 8:00 AM			
Assessed By								
Crop Code	3 GLXMA	4 GLXMA	4 GLXMA	4 GLXMA	6 GLXMA			
Crop Variety	AG 3306	AG 3306	AG 3306	AG 3306	AG 3306			
Crop Development	10 10	10 10	10 10	10 10	14 15			
Pest Code			1 AMBTR	2 SETFA	7 AMBTR			
Pest Variety								
Pest Development								
SE Group No.	1	2	2	2	3			
SE Name								
Part Assessed	PLOT	PLOT	PLOT	PLOT	PLOT			
Assessment Data Type	PHYGEN	PHYGEN	CONTRO	CONTRO	CONTRO			
Assessment Unit	%	%	%	%	%			
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW			
Number of Subsamples	1	1	1	1	1			
Days After Planting	19DAP-1	26DAP-1	26DAP-1	26DAP-1	57DAP-1			
Days After Last Application	15	22	22	22	2			
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	1	2	3	4	5
1 Untreated				0.0 a	0.0 b	0.0 b	0.0 d	0.0 b
2 PREFIX	1480.0	gai/ha	A	0.0 a	4.5 b	76.8 a	90.0 ab	77.8 a
AMMONIUM SULFATE	2.5	%v/v	C					
TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	C					
3 BOUNDARY 6.5 EC	1640.0	gai/ha	A	0.0 a	3.3 b	76.8 a	85.8 ab	67.0 a
AMMONIUM SULFATE	2.5	%v/v	C					
TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	C					
4 CANOPY 75 WG	158.0	gai/ha	A	0.0 a	2.0 b	90.0 a	43.8 c	85.8 a
AMMONIUM SULFATE	2.5	%v/v	C					
TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	C					
5 CLASSIC 25DF (ENVIVE 3.5 oz)	22.4	gai/ha	A	0.0 a	30.0 a	93.8 a	97.0 a	94.0 a
HARMONY GT 75DF (ENVIVE 3.5 oz)	6.7	gai/ha	A					
VALOR 51 WDG (ENVIVE 3.5 oz)	71.0	gai/ha	A					
AMMONIUM SULFATE	2.5	%v/v	C					
TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	C					
6 VALOR 51 WDG (VALOR XLT 3oz)	63.0	gai/ha	A	0.0 a	30.5 a	85.0 a	95.8 a	85.0 a
CLASSIC 25DF (VALOR XLT 3 oz)	21.7	gai/ha	A					
AMMONIUM SULFATE	2.5	%v/v	C					
TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	C					
7 GANGSTER FR 84 WG	17.5	gai/ha	A	0.0 a	25.3 a	85.5 a	91.3 ab	91.8 a
GANGSTER V 51 WG	54.0	gai/ha	A					
AMMONIUM SULFATE	2.5	%v/v	C					
TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	C					
8 SONIC 70 DF	157.0	gai/ha	A	0.0 a	7.5 b	81.8 a	83.3 b	87.5 a
AMMONIUM SULFATE	2.0	%v/v	C					
TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	C					
9 AMMONIUM SULFATE	2.5	%v/v	B				0.0 d	93.3 a
TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	B					

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Assessment Date		6/19/2008 8:00 AM	7/10/2008 8:00 AM	7/10/2008 8:00 AM	7/29/2008 8:00 AM	7/29/2008 8:00 AM		
Assessed By								
Crop Code		6 GLXMA	9 GLXMA	9 GLXMA	10 GLXMA	10 GLXMA		
Crop Variety		AG 3306	AG 3306	AG 3306	AG 3306	AG 3306		
Crop Development		14 15	65 00	65 00	75 75	75 75		
Pest Code		8 SETFA	9 AMBTR	10 SETFA	12 AMBTR	13 SETFA		
Pest Variety								
Pest Development								
SE Group No.		3	4	4	5	5		
SE Name								
Part Assessed		PLOT	PLOT	PLOT	PLOT	PLOT		
Assessment Data Type		CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Assessment Unit		%	%	%	%	%		
Assessment Type, Sub-Type		NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW		
Number of Subsamples		1	1	1	1	1		
Days After Planting		57DAP-1	78DAP-1	78DAP-1	97DAP-1	97DAP-1		
Days After Last Application		2	23	23	19	19		
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	6	7	8	9	10
1 Untreated				0.0 d	0.0 b	0.0 c	0.0 c	0.0 f
2 PREFIX	1480.0 gai/ha	A		97.5 a	97.5 a	98.3 a	97.0 a	93.8 ab
AMMONIUM SULFATE	2.5 %v/v	C						
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	C						
3 BOUNDARY 6.5 EC	1640.0 gai/ha	A		97.3 a	92.0 a	98.5 a	86.5 a	88.0 bc
AMMONIUM SULFATE	2.5 %v/v	C						
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	C						
4 CANOPY 75 WG	158.0 gai/ha	A		80.0 c	96.3 a	92.8 b	91.3 a	84.5 bcd
AMMONIUM SULFATE	2.5 %v/v	C						
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	C						
5 CLASSIC 25DF (ENVIVE 3.5 oz)	22.4 gai/ha	A		95.5 a	97.5 a	93.0 b	93.3 a	83.3 b-e
HARMONY GT 75DF (ENVIVE 3.5 oz)	6.7 gai/ha	A						
VALOR 51 WDG (ENVIVE 3.5 oz)	71.0 gai/ha	A						
AMMONIUM SULFATE	2.5 %v/v	C						
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	C						
6 VALOR 51 WDG (VALOR XLT 3oz)	63.0 gai/ha	A		95.3 a	96.3 a	92.5 b	88.3 a	72.5 e
CLASSIC 25DF (VALOR XLT 3 oz)	21.7 gai/ha	A						
AMMONIUM SULFATE	2.5 %v/v	C						
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	C						
7 GANGSTER FR 84 WG	17.5 gai/ha	A		90.8 ab	93.3 a	91.0 b	90.0 a	79.0 cde
GANGSTER V 51 WG	54.0 gai/ha	A						
AMMONIUM SULFATE	2.5 %v/v	C						
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	C						
8 SONIC 70 DF	157.0 gai/ha	A		86.3 b	97.5 a	97.8 a	93.0 a	90.3 abc
AMMONIUM SULFATE	2.0 %v/v	C						
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	C						
9 AMMONIUM SULFATE	2.5 %v/v	B		99.5 a	92.0 a	90.0 b	74.5 b	76.3 de
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B						

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Assessment Date				9/25/2008 12:00 AM	9/25/2008 12:00 AM	
Assessed By						
Crop Code				11 GLXMA	11 GLXMA	
Crop Variety				AG 3306	AG 3306	
Crop Development				99 99	99 99	
Pest Code						
Pest Variety						
Pest Development						
SE Group No.				6	6	
SE Name						
Part Assessed				PLOT	PLOT	
Assessment Data Type				YIELD	YIELD	
Assessment Unit				LB	BU	
Assessment Type, Sub-Type				NOR RAW	YLD YLR	
Number of Subsamples				1	1	
Days After Planting				155DAP-1	155DAP-1	
Days After Last Application				77	77	
Trt	Treatment/Product Name	Product/AI Rate	Product/AI Unit	Applic. Code		
					11	12
1	Untreated				19.57 a	58.1 a
2	PREFIX	1480.0	gai/ha	A	20.88 a	62.0 a
	AMMONIUM SULFATE	2.5	%v/v	C		
	TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	C		
3	BOUNDARY 6.5 EC	1640.0	gai/ha	A	19.93 a	59.2 a
	AMMONIUM SULFATE	2.5	%v/v	C		
	TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	C		
4	CANOPY 75 WG	158.0	gai/ha	A	19.97 a	59.3 a
	AMMONIUM SULFATE	2.5	%v/v	C		
	TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	C		
5	CLASSIC 25DF (ENVIVE 3.5 oz)	22.4	gai/ha	A	10.55 a	31.3 a
	HARMONY GT 75DF (ENVIVE 3.5 oz)	6.7	gai/ha	A		
	VALOR 51 WDG (ENVIVE 3.5 oz)	71.0	gai/ha	A		
	AMMONIUM SULFATE	2.5	%v/v	C		
	TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	C		
6	VALOR 51 WDG (VALOR XLT 3oz)	63.0	gai/ha	A	18.83 a	55.9 a
	CLASSIC 25DF (VALOR XLT 3 oz)	21.7	gai/ha	A		
	AMMONIUM SULFATE	2.5	%v/v	C		
	TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	C		
7	GANGSTER FR 84 WG	17.5	gai/ha	A	19.03 a	56.5 a
	GANGSTER V 51 WG	54.0	gai/ha	A		
	AMMONIUM SULFATE	2.5	%v/v	C		
	TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	C		
8	SONIC 70 DF	157.0	gai/ha	A	16.18 a	48.1 a
	AMMONIUM SULFATE	2.0	%v/v	C		
	TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	C		
9	AMMONIUM SULFATE	2.5	%v/v	B	13.50 a	40.1 a
	TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	B		

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Assessment Date	5/12/2008 10:45 AM		5/19/2008 8:00 AM		5/19/2008 8:00 AM		5/19/2008 8:00 AM		6/19/2008 8:00 AM	
Assessed By										
Crop Code	3 GLXMA		4 GLXMA		4 GLXMA		4 GLXMA		6 GLXMA	
Crop Variety	AG 3306		AG 3306		AG 3306		AG 3306		AG 3306	
Crop Development	10 10		10 10		10 10		10 10		14 15	
Pest Code					1 AMBTR		2 SETFA		7 AMBTR	
Pest Variety										
Pest Development										
SE Group No.	1		2		2		2		3	
SE Name										
Part Assessed	PLOT		PLOT		PLOT		PLOT		PLOT	
Assessment Data Type	PHYGEN		PHYGEN		CONTRO		CONTRO		CONTRO	
Assessment Unit	%		%		%		%		%	
Assessment Type, Sub-Type	NOR RAW		NOR RAW		NOR RAW		NOR RAW		NOR RAW	
Number of Subsamples	1		1		1		1		1	
Days After Planting	19DAP-1		26DAP-1		26DAP-1		26DAP-1		57DAP-1	
Days After Last Application	15		22		22		22		2	
Trt	Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	1	2	3	4	5	
10	AMMONIUM SULFATE	2.5	%v/v	B						92.5 a
	TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	B						
	AMMONIUM SULFATE	2.5	%v/v	D						
	TOUCHDOWN TOTAL 4.17 SL	880.0	gae/ha	D						
LSD (P=.05)		0.00			0.00	5.40	16.62	8.26	17.52	
Standard Deviation		0.00			0.00	3.67	11.30	5.62	12.07	
CV		0.0			0.0	28.5	15.34	8.61	15.59	
Bartlett's X2		0.0			0.0	4.199	3.898	6.379	24.819	
P(Bartlett's X2)		.			.	0.65	0.69	0.382	0.002*	
Replicate F		0.000			0.000	1.232	11.119	4.352	7.868	
Replicate Prob(F)		1.0000			1.0000	0.3231	0.0001	0.0156	0.0006	
Treatment F		0.000			0.000	52.318	28.859	205.342	22.229	
Treatment Prob(F)		1.0000			1.0000	0.0001	0.0001	0.0001	0.0001	

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Assessment Date	6/19/2008 8:00 AM	7/10/2008 8:00 AM	7/10/2008 8:00 AM	7/29/2008 8:00 AM	7/29/2008 8:00 AM			
Assessed By								
Crop Code	6 GLXMA	9 GLXMA	9 GLXMA	10 GLXMA	10 GLXMA			
Crop Variety	AG 3306	AG 3306	AG 3306	AG 3306	AG 3306			
Crop Development	14 15	65 00	65 00	75 75	75 75			
Pest Code	8 SETFA	9 AMBTR	10 SETFA	12 AMBTR	13 SETFA			
Pest Variety								
Pest Development								
SE Group No.	3	4	4	5	5			
SE Name								
Part Assessed	PLOT	PLOT	PLOT	PLOT	PLOT			
Assessment Data Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Assessment Unit	%	%	%	%	%			
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW			
Number of Subsamples	1	1	1	1	1			
Days After Planting	57DAP-1	78DAP-1	78DAP-1	97DAP-1	97DAP-1			
Days After Last Application	2	23	23	19	19			
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	6	7	8	9	10
10 AMMONIUM SULFATE	2.5 %v/v	B		99.5 a	90.3 a	91.3 b	100.0 a	99.5 a
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B						
AMMONIUM SULFATE	2.5 %v/v	D						
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	D						
LSD (P=.05)	5.65	7.44	3.30	8.52	8.17			
Standard Deviation	3.89	5.13	2.28	5.87	5.63			
CV	4.63	6.02	2.69	7.22	7.34			
Bartlett's X2	24.513	12.535	10.448	9.354	10.709			
P(Bartlett's X2)	0.002*	0.129	0.165	0.228	0.219			
Replicate F	5.183	2.730	4.821	9.444	3.512			
Replicate Prob(F)	0.0059	0.0635	0.0082	0.0002	0.0286			
Treatment F	240.983	137.479	687.707	100.283	99.976			
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001			

## Purdue University

Assessment Date	9/25/2008 12:00 AM	9/25/2008 12:00 AM
Assessed By		
Crop Code	11 GLXMA	11 GLXMA
Crop Variety	AG 3306	AG 3306
Crop Development	99 99	99 99
Pest Code		
Pest Variety		
Pest Development		
SE Group No.	6	6
SE Name		
Part Assessed	PLOT	PLOT
Assessment Data Type	YIELD	YIELD
Assessment Unit	LB	BU
Assessment Type, Sub-Type	NOR RAW	YLD YLR
Number of Subsamples	1	1
Days After Planting	155DAP-1	155DAP-1
Days After Last Application	77	77
Trit Treatment/Product Name	Product/AI Rate Product/AI Rate Unit Applic. Code	
	11	12
10 AMMONIUM SULFATE	2.5 %v/v B	18.18 a
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha B	54.0 a
AMMONIUM SULFATE	2.5 %v/v D	
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha D	
LSD (P=.05)	6.994	20.78
Standard Deviation	4.769	14.17
CV	27.01	27.01
Bartlett's X2	25.649	25.649
P(Bartlett's X2)	0.002*	0.002*
Replicate F	0.907	0.907
Replicate Prob(F)	0.4538	0.4539
Treatment F	1.915	1.915
Treatment Prob(F)	0.1031	0.1031

# Purdue University

Country: UNITED STATES OF AMERICA Region: NJ Trial Use: Normal  
 Discipline: HERBICIDE Sequence: 001 Year: 2008  
 Trial Id.: USNJ0H0012008 Protocol Id.: HPID01A4-2008US Revision Date: MAR05  
 Master Protocol Id.:

Trial Origin: COOPERATOR TRIAL Licensee: Dr. Bill Johnson GEP: N

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 Title: Prefix vs Competitive Foundation Rates in soybean

T199, T178, 3, GLXMA, AG 3306, 10, 10 = 1  
 T200, T178, 4, GLXMA, AG 3306, 10, 10 = 1  
 T202, T178, 6, GLXMA, AG 3306, 14, 15 = 1  
 T205, T178, 9, GLXMA, AG 3306, 65, 00 = 1  
 T206, T178, 10, GLXMA, AG 3306, 75, 75 = 1  
 T231, T178, 11, GLXMA, AG 3306, 99, 99 = 1

T216, T181, 1, AMBTR, , , = 1  
 T217, T189, 2, SETFA, , , = 2  
 T222, T181, 7, AMBTR, , , = 1  
 T223, T189, 8, SETFA, , , = 2  
 T224, T181, 9, AMBTR, , , = 1  
 T225, T189, 10, SETFA, , , = 2  
 T227, T228, 12, AMBTR, , , = 1  
 T229, T230, 13, SETFA, , , = 2

25908, PLOT = PLOT

5315, PHYGEN = PHYTOTOXICITY - GENERAL  
 5260, CONTRO = CONTROL  
 5353, YIELD = YIELD

1221, % = PERCENT  
 1230, LB = POUND

Assessment Type. Sub-Type

NOR = NORMAL  
 YLD = YIELD CALCULATED  
 RAW = RAW DATA  
 YLR = YIELD CALCULATION

Days After Planting

19DAP-1 = 1 4/23/2008  
 26DAP-1 = 1 4/23/2008  
 57DAP-1 = 1 4/23/2008  
 78DAP-1 = 1 4/23/2008  
 97DAP-1 = 1 4/23/2008  
 155DAP-1 = 1 4/23/2008

ARM Action Codes

TY1 = 2.970759\*11