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Country: UNITED STATES OF AMERICA Region: Trial Use: Normal
 Discipline: HERBICIDE Sequence: Year: 2009
 Trial Id.: US_0H__2009 Protocol Id.: HFM051B4-2009US Revision Date: MAR06
 Master Protocol Id.:

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

Title: Flexstar GT: Influence of adjuvant type and AMS rate on phytotoxicity and weed control (Northern version)

SITE AND DESIGN

Plot Width: 10 Unit: FT Plot Length: 30 Unit: FT Plot Area: 300.0 Unit: FT2 No Reps: 4 No Treats: 16

Site Description Event Date: 5-12-2009 Plot Items: 1.0 Plot Unit: PLOT Study Design: RACOB
 Trial Location: Lafayette Farm/Station Name: Throckmorton
 County: Tippecanoe Farm Manager: Jay Young
 State/Province: IN City+State/Prov: Lafayette, IN
 Postal Code: 47909 Postal Code: 47909
 Country: UNITED STATES OF AMERICA

Soil Texture: SILT LOAM
 Tillage Type: NO-TILL

Trial Number	COUNTRY
US	US

GENERAL TRIAL INFORMATION

Initiation Date: 4-14-2009 Protocol Id. : HFM051B4-2009US
 Title: Flexstar GT: Influence of adjuvant type and AMS rate on phytotoxicity and weed control (Northern version)
 Intl./Overall Protocol Owner : Don Porter Investigator: Dr. Bill Johnson
 Local Protocol Responsibility: Dain Bruns Title: BR&D Scientist
 Affiliation: Syngenta

SYPOS Project	SYPOS Task
P000316-07	T005469-08

TRIAL STATUS
 Date: 4-14-2009 TRIAL STATUS: ESTABLISHED
 Comment: Generated by ARM

SEED DESCRIPTION

1. Date: 5-12-2009 Area: Trial Crop: GLYCINE MAX Var: AG3402 % Germination: 90.0
 Source: Indiana 1000 Seed Weight: 0.16 Unit: KG

CROP OCCURRENCE

	1.
Date:	5-12-2009
Area:	Trial
Crop:	SOYBEANS
Crop Code:	GLXMA
BBCH Scale:	BSOY
Variety:	AG3402
Seed Description:	1
Planting Date:	5-12-2009
PL. TYPE:	PLANTING OF SEEDS
Planting Depth Min, Max, Unit:	1.0 1.25 IN
Row Spacing, Unit:	15.0 IN
Spacing Within Row, Unit:	2.5 IN
Planting Rate, Unit:	160000.0 P/A
Method:	DIRECT DRILLED

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PEST OCCURRENCE				
	1.	2.	3.	4.
Date:	6-27-2009	6-27-2009	6-27-2009	6-27-2009
Area:	Trial	Trial	Trial	Trial
Pest:	AMBROSIA TRIFIDA	SETARIA FABERI	CHENOPODIUM ALBUM TRIAZINE RESIST.	AMARANTHUS RETROFLEXUS
Pest Code:	AMBTR	SETFA	CHEAL	AMARE
Stage Scale:	BBCH	BGRM	BBCH	BDWE

	5.	6.
Date:	6-27-2009	6-27-2009
Area:	Trial	Trial
Pest:	TARAXACUM OFFICINALE	AMARANTHUS RUDIS
Pest Code:	TAROF	AMATA
Stage Scale:	BDIC	BDWE

CROP DEVELOPMENT						
	1.	2.	3.	4.	5.	6.
Date:	5-12-2009	6-23-2009	6-29-2009	7-9-2009	7-20-2009	8-5-2009
Crop:	1 SOYBEANS	1 SOYBEANS	1 SOYBEANS	1 SOYBEANS	1 SOYBEANS	1 SOYBEANS
Crop Code:	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale:	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Variety:	AG3402	AG3402	AG3402	AG3402	AG3402	AG3402
Dev. Stage Min, Max:		13 14	15 61	65 65	70 70	73 73
Dev. Stage Majority:		14				
Height Min, Max, Unit:		4.0 6.0 IN	6.0 8.0 IN	12.0 18.0 IN		30.0 36.0 IN
Tree/Crop Row Volume Information						
Height Total (m):		0.13	0.18	0.38		0.84

PEST DEVELOPMENT				
	1.	2.	3.	4.
Date:	7-9-2009	7-9-2009	7-9-2009	8-5-2009
Pest:	1 AMBROSIA TRIFIDA	2 SETARIA FABERI	4 AMARANTHUS RETROFLEXUS	1 AMBROSIA TRIFIDA
Pest Code:	AMBTR	SETFA	AMARE	AMBTR
Stage Scale:	BBCH	BGRM	BDWE	BBCH
Dev. Stage Min, Max:	32 45	13 18	32 39	33 65
Density Min, Max, Majority:	1.0 20.0	25.0 75.0	2.0 30.0	1.0 10.0
Unit:	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	4.0 36.0 IN	4.0 36.0 IN	3.0 18.0 IN	18.0 60.0 IN
Natural Incidence:	Y	Y	Y	Y

	5.	6.
Date:	8-5-2009	8-5-2009
Pest:	2 SETARIA FABERI	4 AMARANTHUS RETROFLEXUS
Pest Code:	SETFA	AMARE
Stage Scale:	BGRM	BDWE
Dev. Stage Min, Max:	62 63	34 63
Density Min, Max, Majority:	25.0 100.0	0.0 4.0
Unit:	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	24.0 36.0 IN	3.0 36.0 IN
Natural Incidence:	Y	Y

WEATHER DESCRIPTION	
1. Date: 5-12-2009 Air Temp. Min: 75.0 Max: 75.0 Unit: F % Rel. Humidity Min: 34.0 Max: 34.0 Wind Velocity Min: 6.0 Max: 9.0 Unit: MPH Wind Direction: SSE Sky Condition: CLEAR Rain 24 Hours before: NONE	
2. Date: 6-23-2009	

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No.	Date	Soil Temp.	Unit	Soil Moisture Condition
1.	5-12-2009	64.0	F	ABOVE NORMAL

APPLICATION

Application Date/Time:	6-23-2009 12:00 AM
Applied By:	AR
Weather:	2
Equipment Name:	BACKPACK CO2
Application Equipment:	BOOSPH
Pressure, Unit:	28 PSI
Nozzle Type:	FLAFAN
Nozzle Description:	XR11002
Nozzle Spacing, Unit:	15 IN
Nozzles/Row:	6
Boom Length, Unit:	7.5 FT
Boom Height, Unit:	18 M
Ground Speed, Unit:	3 MPH
Application Timing:	POSPOS
Applic. Placement:	BROFOL

No.	Date	Area	Laboratory Name	pH/KCL	pH/H2O	CEC	Soil Texture				
1.	5-12-2009	Trial	Toronto-Millbrook			6.0	11.1 SILT LOAM				
Comment:				A&L Great Lakes Laboratories, Inc. Report #: F04048-0006							
Soil Component:											
Soil Element:				P:	53.0 PPM	K:	208.0 PPM	Ca:	1100.0 PPM	Mg:	325.0 PPM

INOCULATION/INFESTATION

1.

Code	Comment
1.	

1.

Area Name	Treatment Numbers in Area
1.	

1.

INSTRUCTIONS

CROPS: SOYBEANS

TARGETS: GLY-R DICOT WEEDS

OBJECTIVE:

- Determine the effect of no adjuvant and NIS, COC, HSOC, and MSO adjuvant classes on control of glyphosate resistant weeds from Flexstar GT at 3.0 pt/A
- Determine the effect of 2.5 and 5% v/v AMS rates on control of glyphosate resistant weeds from Flexstar GT at 3.0 pt/A
- Determine the effect adjuvant type and AMS rate on soybean phytotoxicity from Flexstar GT at 3.0 pt/A
- Determine the optimum Flexstar GT additive program (adjuvant class and AMS rate) to give weed control equal to or greater than tank mixtures of glyphosate plus Flexstar, Cobra, Ultra Blazer, or Resource

CRITICAL PROTOCOL TASKS:

- Weed targets must be gly-R AMASS or AMBTR because Flexstar GT will likely be used in management of gly-R weeds. However, weed control data on all other non-resistant (or PPO resistant) weeds are still needed to build the Flexstar GT database, therefore collect data on all weed species present in the trial.

- if conducted no-till, apply Gramoxone Inteon + 2,4-D + COC burndown to the entire trial area to start clean.

- this is protocol version 'B' = Northern version, with AMS at 2.5 (= 8.5 lbs/100 gal) and 5.0% (= 17 lbs/100 gal). Southern version, with AMS at 0 and 5.0% v/v (= 17 lbs/100 gal)

EXPERIMENTAL DESIGN AND PLOT DIMENSIONS:

RCBD factorial arrangement:

- Two (2) factors (a and b)
 - a = 5; adjuvants: none, NIS, COC, HSOC, and MSO
 - b = 2; AMS rate: 2.5% and 5.0% (8.5 and 17 lbs/100 gal, respectively)
 - Treatment subtotal = 10
- Plus four (4) standard treatments + non-treated check

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TREATMENT DETAILS:

Application timings:

- A = POST
- for AMASS, B = 6 - 8" tall
- for AMBTR, B = 4 - 8" tall

Application volume = 15 - 20 GPA

Adjuvant selection:

NIS = non-ionic surfactant
 COC = crop oil concentrate
 HSOC = hi-load soy-based crop oil
 MSO = methylated seed oil

- it is acknowledged that adjuvant compositions can vary even within a classification (e.g. NIS). It is requested, to the best of the researcher's ability, to select an adjuvant brand (it can currently be their adjuvant inventory) that fits only within the general adjuvant classification (i.e. NIS, COC, HSOC, or MSO) and avoid adjuvant blends, e.g. Dyne-Amic, an MSO + organosilicone blend. Note selected adjuvant tradenames/products in trial notes for future reference.

in the event that the above adjuvant class is not in the researcher's inventory, the following adjuvants will be available in SOLO for distribution:

- NIS - Preference
- COC - Prime Oil
- MSO - Destiny
- HSOC - Superb HC

Other HSOC product options are 'Between' (United Suppliers) and 'Diplomat' (Rosens)

ASSESSMENT DETAILS:

Rate soybean phytotoxicity:

- at 4 - 7 d, 14 d (+/- 1 d) and 28 d (+/- 2 d) after 'A'

Rate weed control:

- 14 d (+/- 1 d), 28 d (+/- 2 d), and 42 d (+/- 4 d) after 'A'.

Yield not requested, trial can be terminated after last weed control evaluation.

REPORT DATA BY: 10/16/2009

OTHER NOTES:

Assessment Tasks																	
No.	Timing ID	SE Name	SE Description	Part Assess	Assess Data Type	Assess Unit	Samples per 1 Collect. basis	Sample Unit	Coll. Basis	Basis Unit	Reporting Basis	Reporting Basis Unit	Asmt Type	Asmt Sub Type	Calc Type	Scale Type	Scale Min
1.	1	ZUSX001	%Phyto-General	PLAN T	PHYGE N	%	1	PLOT	1	PLO T	1	PLOT	NO R	RAW	NC	S	0
2.	2	ZUSW001	%Control	PLAN T	CONTR O	%	1	PLOT	1	PLO T	1	PLOT	NO R	RAW	NC	S	0
No.	Timing ID																
1.	1																
2.	2																

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Assessment Date	6-29-2009 12:00 AM	7-9-2009 12:00 AM	7-9-2009 12:00 AM
Assessed By	PM	CB	CB
Crop Code	3 GLXMA	4 GLXMA	4 GLXMA
Crop Variety	AG3402	AG3402	AG3402
Crop Development	15 61	65 65	65 65
Pest Code			1 AMBTR
Pest Development			32 45
SE Group No.	1	2	2
Part Assessed	PLOT		
Assessment Data Type	PHYGEN	PHYGEN	CONTRO
Assessment Unit	%	%	%
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW
Number of Subsamples	1	1	1
Days After Planting	48DAP-1	58DAP-1	58DAP-1
Days Application to Assessment	6 DA-A	16 DA-A	16 DA-A
Days After Last Application	6	16	16
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate	Product/AI Rate
	Unit	Unit	Unit
	Code	Code	Code
	1	2	3
16 AMMONIUM SULFATE	5.0 %v/v		
RESOURCE	22.6 gai/ha		
ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha		
MSO	1.0 %v/v		
	A		
	A		
	A		
	A		
LSD (P=.05)	2.65	1.82	9.21
Standard Deviation	1.85	1.27	6.44
CV	58.67	169.97	7.35
Bartlett's X2	50.62	14.607	43.881
P(Bartlett's X2)	0.001*	0.002*	0.001*
Replicate F	2.886	0.795	3.469
Replicate Prob(F)	0.0459	0.5032	0.0237
Treatment F	29.831	10.708	54.618
Treatment Prob(F)	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	7-9-2009 12:00 AM		7-9-2009 12:00 AM	7-20-2009 12:00 AM		
Assessed By	CB		CB	CB		
Crop Code	4 GLXMA		4 GLXMA	5 GLXMA		
Crop Variety	AG3402		AG3402	AG3402		
Crop Development	65 65		65 65	70 70		
Pest Code	2 SETFA		3 AMARE			
Pest Development	13 18		32 39			
SE Group No.	2		2	3		
Part Assessed						
Assessment Data Type	CONTRO		CONTRO	PHYGEN		
Assessment Unit	%		%	%		
Assessment Type, Sub-Type	NOR RAW		NOR RAW	NOR RAW		
Number of Subsamples	1		1	1		
Days After Planting	58DAP-1		58DAP-1	69DAP-1		
Days Application to Assessment	16 DA-A		16 DA-A	27 DA-A		
Days After Last Application	16		16	27		
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	4	5	6
1 UNTREATED				0.0 c	0.0 c	0.0 b
2 FLEXSTAR GT 3.31 SL	1400.0 gae/ha		A	99.8 a	99.8 a	0.0 b
3 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL	2.5 %v/v 1400.0 gae/ha		A A	99.3 a	100.0 a	0.0 b
4 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL NIS	2.5 %v/v 1400.0 gae/ha 0.25 %v/v		A A A	99.8 a	99.3 a	0.0 b
5 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL COC	2.5 %v/v 1400.0 gae/ha 1.0 %v/v		A A A	99.8 a	99.5 a	0.0 b
6 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL DESTINY HC	2.5 %v/v 1400.0 gae/ha 0.5 %v/v		A A A	99.8 a	100.0 a	0.3 b
7 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v		A A A	99.8 a	99.8 a	0.0 b
8 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL	5.0 %v/v 1400.0 gae/ha		A A	99.8 a	99.8 a	0.3 b
9 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL NIS	5.0 %v/v 1400.0 gae/ha 0.25 %v/v		A A A	99.8 a	97.8 ab	0.0 b
10 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL COC	5.0 %v/v 1400.0 gae/ha 1.0 %v/v		A A A	99.8 a	99.8 a	0.0 b
11 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL DESTINY HC	5.0 %v/v 1400.0 gae/ha 0.5 %v/v		A A A	99.8 a	99.5 a	0.3 b
12 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL MSO	5.0 %v/v 1400.0 gae/ha 1.0 %v/v		A A A	99.8 a	99.8 a	0.5 b
13 AMMONIUM SULFATE FLEXSTAR 1.88 EC (A12967A) TOUCHDOWN TOTAL 4.17 SL MSO	5.0 %v/v 280.0 gai/ha 1120.0 gae/ha 1.0 %v/v		A A A A	99.8 a	98.8 a	0.0 b
14 AMMONIUM SULFATE COBRA 2 EC ROUNDUP POWERMAX 4.5 SL MSO	5.0 %v/v 175.0 gai/ha 1120.0 gae/ha 1.0 %v/v		A A A A	97.5 b	99.5 a	3.5 a
15 AMMONIUM SULFATE ULTRA BLAZER 2 SL ROUNDUP POWERMAX 4.5 SL MSO	5.0 %v/v 280.0 gai/ha 1120.0 gae/ha 1.0 %v/v		A A A A	100.0 a	95.0 b	3.8 a

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Assessment Date	7-9-2009 12:00 AM	7-9-2009 12:00 AM	7-20-2009 12:00 AM
Assessed By	CB	CB	CB
Crop Code	4 GLXMA	4 GLXMA	5 GLXMA
Crop Variety	AG3402	AG3402	AG3402
Crop Development	65 65	65 65	70 70
Pest Code	2 SETFA	3 AMARE	
Pest Development	13 18	32 39	
SE Group No.	2	2	3
Part Assessed			
Assessment Data Type	CONTRO	CONTRO	PHYGEN
Assessment Unit	%	%	%
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW
Number of Subsamples	1	1	1
Days After Planting	58DAP-1	58DAP-1	69DAP-1
Days Application to Assessment	16 DA-A	16 DA-A	27 DA-A
Days After Last Application	16	16	27
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate	Product/AI Rate
	Unit	Unit	Unit
	Code	Code	Code
	4	5	6
16 AMMONIUM SULFATE	5.0 %v/v	A	
RESOURCE	22.6 gai/ha	A	
ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha	A	
MSO	1.0 %v/v	A	
LSD (P=.05)	1.24	2.64	1.29
Standard Deviation	0.87	1.85	0.90
CV	0.93	1.99	169.38
Bartlett's X2	41.156	56.666	14.863
P(Bartlett's X2)	0.001*	0.001*	0.011*
Replicate F	8.736	2.333	0.232
Replicate Prob(F)	0.0001	0.0867	0.8739
Treatment F	3264.176	718.749	7.322
Treatment Prob(F)	0.0001	0.0001	0.0001

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Assessment Date	8-5-2009 12:00 AM			8-5-2009 12:00 AM			8-5-2009 12:00 AM		
Assessed By	CB/RT			CB/RT			CB/RT		
Crop Code	6 GLXMA			6 GLXMA			6 GLXMA		
Crop Variety	AG3402			AG3402			AG3402		
Crop Development	73 73			73 73			73 73		
Pest Code	4 AMBTR			5 SETFA			6 AMARE		
Pest Development	33 65			62 63			34 63		
SE Group No.	4			5			6		
Part Assessed									
Assessment Data Type	CONTRO			CONTRO			CONTRO		
Assessment Unit	%			%			%		
Assessment Type, Sub-Type	NOR RAW			NOR RAW			NOR RAW		
Number of Subsamples	1			1			1		
Days After Planting	85DAP-1			85DAP-1			85DAP-1		
Days Application to Assessment	43 DA-A			43 DA-A			43 DA-A		
Days After Last Application	43			43			43		
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	7	8	9			
1 UNTREATED				0.0 c	0.0 c	0.0 c			
2 FLEXSTAR GT 3.31 SL	1400.0 gae/ha		A	67.0 b	99.3 a	98.5 a			
3 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL	2.5 %v/v 1400.0 gae/ha		A A	97.5 a	99.0 a	99.8 a			
4 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL NIS	2.5 %v/v 1400.0 gae/ha 0.25 %v/v		A A A	85.0 ab	98.8 a	99.5 a			
5 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL COC	2.5 %v/v 1400.0 gae/ha 1.0 %v/v		A A A	94.0 a	98.3 a	99.8 a			
6 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL DESTINY HC	2.5 %v/v 1400.0 gae/ha 0.5 %v/v		A A A	92.3 a	99.3 a	99.8 a			
7 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v		A A A	94.0 a	98.8 a	99.5 a			
8 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL	5.0 %v/v 1400.0 gae/ha		A A	96.5 a	99.0 a	99.0 a			
9 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL NIS	5.0 %v/v 1400.0 gae/ha 0.25 %v/v		A A A	89.5 a	99.3 a	99.5 a			
10 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL COC	5.0 %v/v 1400.0 gae/ha 1.0 %v/v		A A A	96.5 a	98.3 a	99.8 a			
11 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL DESTINY HC	5.0 %v/v 1400.0 gae/ha 0.5 %v/v		A A A	94.3 a	98.0 a	99.5 a			
12 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL MSO	5.0 %v/v 1400.0 gae/ha 1.0 %v/v		A A A	99.0 a	98.8 a	98.5 a			
13 AMMONIUM SULFATE FLEXSTAR 1.88 EC (A12967A) TOUCHDOWN TOTAL 4.17 SL MSO	5.0 %v/v 280.0 gai/ha 1120.0 gae/ha 1.0 %v/v		A A A A	96.5 a	100.0 a	99.8 a			
14 AMMONIUM SULFATE COBRA 2 EC ROUNDUP POWERMAX 4.5 SL MSO	5.0 %v/v 175.0 gai/ha 1120.0 gae/ha 1.0 %v/v		A A A A	80.5 ab	85.5 b	94.3 b			
15 AMMONIUM SULFATE ULTRA BLAZER 2 SL ROUNDUP POWERMAX 4.5 SL MSO	5.0 %v/v 280.0 gai/ha 1120.0 gae/ha 1.0 %v/v		A A A A	75.0 ab	96.8 a	97.8 a			

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Assessment Date	8-5-2009 12:00 AM		8-5-2009 12:00 AM		8-5-2009 12:00 AM	
Assessed By	CB/RT		CB/RT		CB/RT	
Crop Code	6 GLXMA		6 GLXMA		6 GLXMA	
Crop Variety	AG3402		AG3402		AG3402	
Crop Development	73 73		73 73		73 73	
Pest Code	4 AMBTR		5 SETFA		6 AMARE	
Pest Development	33 65		62 63		34 63	
SE Group No.	4		5		6	
Part Assessed						
Assessment Data Type	CONTRO		CONTRO		CONTRO	
Assessment Unit	%		%		%	
Assessment Type, Sub-Type	NOR RAW		NOR RAW		NOR RAW	
Number of Subsamples	1		1		1	
Days After Planting	85DAP-1		85DAP-1		85DAP-1	
Days Application to Assessment	43 DA-A		43 DA-A		43 DA-A	
Days After Last Application	43		43		43	
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	7	8	9
16 AMMONIUM SULFATE	5.0 %v/v	A		79.5 ab	92.3 ab	99.5 a
RESOURCE	22.6 gai/ha	A				
ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha	A				
MSO	1.0 %v/v	A				
LSD (P=.05)				14.88	6.78	2.19
Standard Deviation				10.41	4.75	1.54
CV				12.46	5.2	1.66
Bartlett's X2				50.657	85.164	51.033
P(Bartlett's X2)				0.001*	0.001*	0.001*
Replicate F				2.113	0.834	2.570
Replicate Prob(F)				0.1118	0.4824	0.0660
Treatment F				21.501	107.582	1041.626
Treatment Prob(F)				0.0001	0.0001	0.0001

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Country: UNITED STATES OF AMERICA	Region:	Trial Use: Normal	Year: 2009
Discipline: HERBICIDE	Sequence:	Protocol Id.: HFM051B4-2009US	Revision Date: MAR06
Trial Id.: US__0H__2009	Master Protocol Id.:		

Trial Origin: COOPERATOR TRIAL

Licensee: Dr. Bill Johnson

GEP: N

 Title: Flexstar GT: Influence of adjuvant type and AMS rate on phytotoxicity and weed control (Northern version)

T95, T68, 3, GLXMA, AG3402, 15, 61 = 1
 T102, T68, 4, GLXMA, AG3402, 65, 65 = 1
 T103, T68, 5, GLXMA, AG3402, 70, 70 = 1
 T104, T68, 6, GLXMA, AG3402, 73, 73 = 1

T96, T73, 1, AMBTR, , 32, 45 = 1
 T97, T75, 2, SETFA, , 13, 18 = 2
 T101, T84, 3, AMARE, , 32, 39 = 4
 T105, T73, 4, AMBTR, , 33, 65 = 1
 T106, T75, 5, SETFA, , 62, 63 = 2
 T107, T84, 6, AMARE, , 34, 63 = 4

25908, PLOT = PLOT

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

1221, % = PERCENT

Assessment Type. Sub-Type

NOR = NORMAL

RAW = RAW DATA

Days After Planting

48DAP-1 = 1 5-12-2009

58DAP-1 = 1 5-12-2009

69DAP-1 = 1 5-12-2009

85DAP-1 = 1 5-12-2009