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CROP DEVELOPMENT				
	1.	2.	3.	4.
Date:	6/17/2010	6/24/2010	6/30/2010	7/15/2010
Crop:	1 SOYBEANS	1 SOYBEANS	1 SOYBEANS	1 SOYBEANS
Crop Code:	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale:	BSOY	BSOY	BSOY	BSOY
Variety:	Asgrow 2939	Asgrow 2939	Asgrow 2939	Asgrow 2939
Dev. Stage Min, Max:	12 13	12 13	13 14	15 51
Height Min, Max, Unit:	6.0 8.0 IN			

Tree/Crop Row Volume Information				
Height Total (m):	0.18			

PEST DEVELOPMENT				
	1.	2.	3.	4.
Date:	6/17/2010	6/17/2010	6/17/2010	6/30/2010
Pest:	1 SETARIA FABERI	2 AMBROSIA TRIFIDA	3 IPOMOEA SP.	1 SETARIA FABERI
Pest Code:	SETFA	AMBTR	IPOSS	SETFA
Stage Scale:	BGRM	BBCH	BBCH	BGRM
Variety:				
Density Min, Max, Majority:	30.0 60.0	1.0 8.0	1.0 4.0	
Unit:	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	1.0 3.0 IN	4.0 6.0 IN	1.0 3.0 IN	6.0 10.0 IN

	5.	6.	7.	8.
Date:	6/30/2010	6/30/2010	6/30/2010	7/15/2010
Pest:	2 AMBROSIA TRIFIDA	4 AMARANTHUS SP.	5 ABUTILON THEOPHRASTI	1 SETARIA FABERI
Pest Code:	AMBTR	AMASS	ABUTH	SETFA
Stage Scale:	BBCH	BDWE	BBCH	BGRM
Variety:				
Density Min, Max, Majority:				
Unit:	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	16.0 20.0 IN	3.0 6.0 IN	18.0 22.0 IN	28.0 34.0 IN

	9.	10.	11.	12.
Date:	7/15/2010	7/15/2010	7/15/2010	7/15/2010
Pest:	2 AMBROSIA TRIFIDA	4 AMARANTHUS SP.	5 ABUTILON THEOPHRASTI	6 ZEA MAYS
Pest Code:	AMBTR	AMASS	ABUTH	ZEAMX
Stage Scale:	BBCH	BDWE	BBCH	BCOR
Variety:				Volunteer
Density Min, Max, Majority:				
Unit:	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	
Height Min, Max, Unit:	38.0 42.0 IN	28.0 32.0 IN	34.0 38.0 IN	

WEATHER DESCRIPTION			
1. Date:	Air Temp. Min:84.0	Max:81.0 % Rel. Humidity Min:70.0	Max:73.0
Wind Velocity Min:0.5	Max:2.0	UWind Direction:N	
Sky Condition:50% Cloud cover			

No.	Date	Soil Temp.	Unit	Soil Moisture Condition
1.	6/17/2010	75.0	F	WET

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APPLICATION

Application Date/Time:	6/17/2010 7:58 AM
Applied By:	CB/MH
Weather:	1
Soil:	1
Application Equipment:	BACSPR
Pressure, Unit:	17.0 PSI
Nozzle Spacing, Unit:	15.0 IN
Boom Length, Unit:	10.0
Boom Height, Unit:	18.0
Ground Speed, Unit:	3.0
Dew Presence (Y/N):	Y
Application Timing:	POSPOS
Applic. Placement:	BROFOL

1.
Soil Component:
Soil Element:

Code	Comment
1.	

Area Name	Treatment Numbers in Area
1.	

INSTRUCTIONS

CROPS: SOYBEANS

TARGETS: AMARANTHUS SP., AMBROSIA ARTEMISIIFOLIA, AMBROSIA TRIFIDA, MORNINGGLORY SP.,

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 OBJECTIVE(S):
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1. Compare crop tolerance and weed control of Flexstar GT reformulation (A17898A) to current Flexstar GT (A16918A), Flexstar + Touchdown Total tank mix and Touchdown Total at equivalent rates in glyphosate tolerant soybean

2. Determine if crop response and weed control is commercially acceptable from combinations of A17898A rate (1,400 and 2,100 g ae/ha), oil-based adjuvants (MSO and COC at 1% v/v) and ammonium source (AMS and 28% UAN at 2.5% v/v) and compare to current Flexstar GT (A16918A) at 1,400 and 2,100 g + AMS + MSO

- does crop response and weed control differ between:
 - A17898A rate?
 - MSO and COC?
 - AMS and 28% UAN?
 - A17898A and A16918A?

3. Build competitive database by comparing crop tolerance and weed control of the new Flexstar GT (A17898A) to Cobra or Ultra Blazer + Roundup Powermax + COC

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 CRITICAL PROTOCOL TASKS:
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- Plots, and/or harvested material from plots, from this trial must be destroyed to ensure that no plant material enters the food or feed system. Any exception can only be granted, in writing, from Syngenta Crop Protection.

- 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.

- N source:

* AMS: trts 2 - 9, 12, 13, 16 & 17

* 28% UAN: trts 10, 11, 14 & 15 only

* N free (optional): trt 18 (A17898A at 1,400 g/ha + only MSO at 1% v/v), do NOT mix/add AMS/28% UAN to spray solution

- Have researcher complete simple formulation evaluation questions under 'Assessment Details'

- if conducted no-till, apply Gramoxone Inteon at 3.5 pt/A + 2,4-D at 1 pt/A + COC as a burndown to the entire trial area to start clean.

- BR&D Scientists will order all products for this protocol. Don Porter will NOT be ordering/shipping products for Scientists in 2010.

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- If annual grass weeds are present, evaluate grass weed control antagonism with special note to treatments containing 28 % UAN.

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EXPERIMENTAL DESIGN AND PLOT DIMENSIONS:

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RCBD with 3 replicates

Suggested plot size is 10 x 30 ft with treatments applied to plot centers. Where possible, running weedy checks are requested.

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TREATMENT DETAILS:

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Application timing:

- A = EPOST
 - for AMASS, A = 2 - 4" tall
 - for AMBTR, A = 4 - 8" tall

- Optional treatment 18: A17898A at 1,400 g/ha + only MSO at 1% v/v, do NOT add AMS or 28% UAN to spray solution

Per the Flexstar GT label:

- spray volume = 15 GPA
- do not use air-induction or other spray nozzles which deliver coarse, large droplet sprays

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ASSESSMENT DETAILS:

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Rate soybean phytotoxicity:

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

Rate weed control:

- 14 d (+/- 1 d), 28 d (+/- 2 d), and 42 d (+/- 3 d) after application.

If annual grass weeds are present, evaluate grass weed control antagonism with special note to treatments containing 28 % UAN.

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

- Plots, and/or harvested material from plots, from this trial must be destroyed to ensure that no plant material enters the food or feed system. Any exception can only be granted, in writing, from Syngenta Crop Protection.

Formulation evaluation:

1. Were there any physical appearance differences between Flexstar GT and the new formulation A17898A when removed from storage and prior to mixing? Yes or No. If yes, what was different?
2. Compared to the current Flexstar GT formulation (Trt 4), did the new formulation A17898A (Trt 8) differ in:
 - a. mixing characteristics in water (dispersion in water, foaming in mixing container)? Yes or No. If yes, what was different?
 - b. application characteristics (spray pattern differences, residue on nozzle screens or bottom of container)? If yes, what was different?
3. Is the new formulation A17898A a commercially acceptable formulation? Yes or No. If no, please explain.

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REPORT DATA BY: 10/15/2010

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Load data to GDB by Oct 15 for year end data summary meeting.

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OTHER NOTES:

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Desired target gly-R weed species at each location (IH or COI trial placement):

- MS = AMAPA
- GA = AMAPA
- NC = AMAPA
- TN = AMAPA
- AR = AMAPA
- MN = AMBTR would like AMBTR even if not gly-R
- IA = AMATA (as resistant as possible)
- MO = AMBTR with KSU or AMATA with U of MO
- IL-S = AMATA
- IL-C = would like AMBTR even if not gly-R
- IN = AMBTR (Purdue)
- OH = AMBTR (gly-R IH)

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PLEASE DELETE SECTIONS BELOW FOR EXTERNAL USE.

PROPOSED TRIAL LOCATIONS: 1-MS-Sanders, 1-GA-Mclean, 1-NC-Mascarenhas, 1-TN-Holloway, 1-AR-Black, 1-MN-Lins, 1-IA-Moses, 1-MO-Nichols, 1-IL-Cully, 1-IL-Thomas, 1-IN-Mroczkiewicz, 1-OH-Brunns

DM CONTACT: T. Beckett

PRIMARY REVIEWERS: Beckett Tom, Bowers Dane, Holloway James, Kitt Mark, Porter Don,

FEEDBACK RECEIVED FROM: Beckett Tom, Bowers Dane, Holloway James, Kitt Mark, Porter Don,

LEVEL OF SECRECY AGREEMENT REQUIRED (UNIVERSITY):

None required

RECORD CHANGES MADE AFTER FINAL POSTING HERE:

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	%	1.0	PLOT	1.0	PLO T	1.0	PLOT	NO R	RAW	NC	S	0
2.	2	ZUSW001	%Control	PLAN T	CONTR O	%	1.0	PLOT	1.0	PLO T	1.0	PLOT	NO R	RAW	NC	S	0

No.	Timing ID
1.	1
2.	2

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Assessment Date				6/24/2010 12:00 AM	6/24/2010 12:00 AM	6/24/2010 12:00 AM	
Assessed By				MW	MW	MW	
Crop Code				2 GLXMA	2 GLXMA	2 GLXMA	
Crop Variety				Asgrow 2939	Asgrow 2939	Asgrow 2939	
Crop Development				12 13	12 13	12 13	
Pest Code							
Pest Variety							
SE Group No.							
Part Assessed				1	1	1	
Assessment Type, Sub-Type				LEADAM NOR RAW	PLADEA NOR RAW	PLACHL NOR RAW	
Number of Subsamples				1	1	1	
Days After Planting				27DAP-1	27DAP-1	27DAP-1	
Days Application to Assessment				7 DA-A	7 DA-A	7 DA-A	
Days After Last Application				7	7	7	
Trt	Treatment/Product Name	Product/AI Rate	Product/AI Unit	Applic. Code	1	2	3
16	AMMONIUM SULFATE	2.5 %v/v		A	8.0 a-g	16.3 a	0.0 a
	COBRA 2 EC	175.0 gai/ha		A			
	ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha		A			
	COC	1.0 %v/v		A			
17	AMMONIUM SULFATE	2.5 %v/v		A	15.0 abc	10.5 b	6.8 a
	ULTRA BLAZER 2 SL	280.0 gai/ha		A			
	ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha		A			
	COC	1.0 %v/v		A			
18	A17898	1400.0 gae/ha		A	12.3 a-e	6.5 bcd	8.0 a
	METHYLATED SEED OIL	1.0 %v/v		A			
19	AMMONIUM SULFATE	2.5 %v/v		A	9.3 a-f	6.3 bcd	3.3 a
	FLEXSTAR GT 3.31 SL	1100.0 gai/ha		A			
	METHYLATED SEED OIL	0.5 %v/v		A			
20	AMMONIUM SULFATE	2.5 %v/v		A	10.0 a-f	9.8 bc	1.3 a
	FLEXSTAR GT 3.31 SL	1390.0 gai/ha		A			
	METHYLATED SEED OIL	0.5 %v/v		A			
21	AMMONIUM SULFATE	2.5 %v/v		A	4.5 d-g	8.5 bc	3.8 a
	ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha		A			
	RESOURCE	22.6 gae/ha		A			
	METHYLATED SEED OIL	0.5 %v/v		A			
22	AMMONIUM SULFATE	2.5 %v/v		A	6.3 c-g	6.8 bcd	2.5 a
	ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha		A			
	CADET 0.91 EC	4.0 gae/ha		A			
	METHYLATED SEED OIL	0.5 %v/v		A			
23	AMMONIUM SULFATE	2.5 %v/v		A	6.3 c-g	10.0 bc	3.8 a
	ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha		A			
	COBRA 2 EC	175.0 gae/ha		A			
	METHYLATED SEED OIL	0.5 %v/v		A			
24	AMMONIUM SULFATE	2.5 %v/v		A	1.5 fg	3.0 def	0.0 a
	ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha		A			
	METHYLATED SEED OIL	0.5 %v/v		A			
LSD (P=.05)				5.21	3.05	4.35	
Standard Deviation				3.68	2.16	3.08	
CV				42.92	30.34	97.16	
Bartlett's X2				26.845	18.992	9.175	
P(Bartlett's X2)				0.176	0.457	0.956	
Replicate F				0.579	1.487	3.022	
Replicate Prob(F)				0.6306	0.2258	0.0354	
Treatment F				5.419	9.122	2.252	
Treatment Prob(F)				0.0001	0.0001	0.0051	

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	6/24/2010 12:00 AM	6/30/2010 12:00 AM	6/30/2010 12:00 AM			
Assessed By	MW	MW	MW			
Crop Code	2 GLXMA	3 GLXMA	3 GLXMA			
Crop Variety	Asgrow 2939	Asgrow 2939	Asgrow 2939			
Crop Development	12 13	13 14	13 14			
Pest Code		1 SETFA	4 AMBTR			
Pest Variety						
SE Group No.	1	1	1			
Part Assessed	PLASTU					
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW			
Number of Subsamples	1	1	1			
Days After Planting	27DAP-1	33DAP-1	33DAP-1			
Days Application to Assessment	7 DA-A	13 DA-A	13 DA-A			
Days After Last Application	7	13	13			
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	4	5	6
1 UNTREATED CHECK				0.0 b	0.0 e	0.0 d
2 AMMONIUM SULFATE TOUCHDOWN TOTAL 4.17 SL	2.5 %v/v 1120.0 gae/ha	A A		0.0 b	92.5 bcd	89.5 abc
3 AMMONIUM SULFATE FLEXSTAR 1.88 SL TOUCHDOWN TOTAL 4.17 SL MSO	2.5 %v/v 280.0 gai/ha 1120.0 gae/ha 1.0 %v/v	A A A A		0.0 b	98.0 ab	82.5 abc
4 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		0.0 b	98.0 ab	91.0 abc
5 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		2.5 b	96.8 ab	96.3 abc
6 AMMONIUM SULFATE A17898	2.5 %v/v 1400.0 gae/ha	A A		0.0 b	98.0 ab	94.0 abc
7 AMMONIUM SULFATE A17898	2.5 %v/v 2100.0 gae/ha	A A		1.3 b	99.0 a	98.0 ab
8 AMMONIUM SULFATE A17898 MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		0.0 b	96.8 ab	91.0 abc
9 AMMONIUM SULFATE A17898 MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		1.3 b	97.5 ab	93.8 abc
10 ADDITIVE UAN 28-0-0 A17898 MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		0.0 b	99.0 a	90.8 abc
11 ADDITIVE UAN 28-0-0 A17898 MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		2.5 b	98.0 ab	99.0 a
12 AMMONIUM SULFATE A17898 COC	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		1.3 b	99.0 a	99.0 a
13 AMMONIUM SULFATE A17898 COC	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		2.5 b	98.0 ab	95.8 abc
14 ADDITIVE UAN 28-0-0 A17898 COC	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		0.0 b	96.0 abc	92.0 abc
15 ADDITIVE UAN 28-0-0 A17898 COC	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		0.0 b	99.0 a	99.0 a

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Assessment Date	6/24/2010 12:00 AM	6/30/2010 12:00 AM	6/30/2010 12:00 AM			
Assessed By	MW	MW	MW			
Crop Code	2 GLXMA	3 GLXMA	3 GLXMA			
Crop Variety	Asgrow 2939	Asgrow 2939	Asgrow 2939			
Crop Development	12 13	13 14	13 14			
Pest Code		1 SETFA	4 AMBTR			
Pest Variety						
SE Group No.		1	1			
Part Assessed	1	1	1			
Assessment Type, Sub-Type	PLASTU NOR RAW	NOR RAW	NOR RAW			
Number of Subsamples	1	1	1			
Days After Planting	27DAP-1	33DAP-1	33DAP-1			
Days Application to Assessment	7 DA-A	13 DA-A	13 DA-A			
Days After Last Application	7	13	13			
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	4	5	6
16 AMMONIUM SULFATE	2.5 %v/v	A		7.5 a	92.5 bcd	92.0 abc
COBRA 2 EC	175.0 gai/ha	A				
ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha	A				
COC	1.0 %v/v	A				
17 AMMONIUM SULFATE	2.5 %v/v	A		3.8 b	97.0 ab	87.3 abc
ULTRA BLAZER 2 SL	280.0 gai/ha	A				
ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha	A				
COC	1.0 %v/v	A				
18 A17898	1400.0 gae/ha	A		0.0 b	98.5 a	89.8 abc
METHYLATED SEED OIL	1.0 %v/v	A				
19 AMMONIUM SULFATE	2.5 %v/v	A		0.0 b	92.3 bcd	83.5 abc
FLEXSTAR GT 3.31 SL	1100.0 gai/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
20 AMMONIUM SULFATE	2.5 %v/v	A		0.0 b	99.0 a	91.8 abc
FLEXSTAR GT 3.31 SL	1390.0 gai/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
21 AMMONIUM SULFATE	2.5 %v/v	A		0.0 b	95.5 abc	87.5 abc
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
RESOURCE	22.6 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
22 AMMONIUM SULFATE	2.5 %v/v	A		0.8 b	90.0 d	78.8 c
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
CADET 0.91 EC	4.0 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
23 AMMONIUM SULFATE	2.5 %v/v	A		7.5 a	91.3 cd	89.8 abc
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
COBRA 2 EC	175.0 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
24 AMMONIUM SULFATE	2.5 %v/v	A		0.0 b	95.8 abc	79.8 bc
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
LSD (P=.05)				2.95	3.32	10.18
Standard Deviation				2.09	2.35	7.20
CV				162.8	2.54	8.26
Bartlett's X2				6.622	17.169	20.796
P(Bartlett's X2)				0.676	0.375	0.348
Replicate F				0.500	1.814	2.994
Replicate Prob(F)				0.6833	0.1527	0.0367
Treatment F				4.443	286.054	29.099
Treatment Prob(F)				0.0001	0.0001	0.0001

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Assessment Date	6/30/2010 12:00 AM	6/30/2010 12:00 AM	6/30/2010 12:00 AM			
Assessed By	MW	MW	MW			
Crop Code	3 GLXMA	3 GLXMA	3 GLXMA			
Crop Variety	Asgrow 2939	Asgrow 2939	Asgrow 2939			
Crop Development	13 14	13 14	13 14			
Pest Code	6 AMASS	12 ZEAMX				
Pest Variety		Volunteer				
SE Group No.	2	2	3			
Part Assessed			PLASTU			
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW			
Number of Subsamples	1	1	1			
Days After Planting	33DAP-1	33DAP-1	33DAP-1			
Days Application to Assessment	13 DA-A	13 DA-A	13 DA-A			
Days After Last Application	13	13	13			
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	7	8	9
1 UNTREATED CHECK				0.0 b	0.0 c	1.3 b
2 AMMONIUM SULFATE TOUCHDOWN TOTAL 4.17 SL	2.5 %v/v 1120.0 gae/ha	A A		99.0 a	20.0 bc	1.3 b
3 AMMONIUM SULFATE FLEXSTAR 1.88 SL TOUCHDOWN TOTAL 4.17 SL MSO	2.5 %v/v 280.0 gai/ha 1120.0 gae/ha 1.0 %v/v	A A A A		98.0 a	37.5 abc	0.0 b
4 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		99.0 a	58.8 abc	1.3 b
5 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		99.0 a	42.5 abc	3.0 ab
6 AMMONIUM SULFATE A17898	2.5 %v/v 1400.0 gae/ha	A A		99.0 a	52.5 abc	5.0 ab
7 AMMONIUM SULFATE A17898	2.5 %v/v 2100.0 gae/ha	A A		99.0 a	40.0 abc	1.3 b
8 AMMONIUM SULFATE A17898 MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		98.0 a	57.5 abc	1.3 b
9 AMMONIUM SULFATE A17898 MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		99.0 a	77.3 ab	3.8 ab
10 ADDITIVE UAN 28-0-0 A17898 MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		99.0 a	85.3 a	1.3 b
11 ADDITIVE UAN 28-0-0 A17898 MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		99.0 a	69.8 ab	5.0 ab
12 AMMONIUM SULFATE A17898 COC	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		99.0 a	18.8 bc	1.3 b
13 AMMONIUM SULFATE A17898 COC	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		99.0 a	70.0 ab	3.8 ab
14 ADDITIVE UAN 28-0-0 A17898 COC	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		99.0 a	67.5 ab	1.3 b
15 ADDITIVE UAN 28-0-0 A17898 COC	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		99.0 a	57.5 abc	1.3 b

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Assessment Date	6/30/2010 12:00 AM	6/30/2010 12:00 AM	6/30/2010 12:00 AM			
Assessed By	MW	MW	MW			
Crop Code	3 GLXMA	3 GLXMA	3 GLXMA			
Crop Variety	Asgrow 2939	Asgrow 2939	Asgrow 2939			
Crop Development	13 14	13 14	13 14			
Pest Code	6 AMASS	12 ZEAMX				
Pest Variety		Volunteer				
SE Group No.	2	2	3			
Part Assessed			PLASTU			
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW			
Number of Subsamples	1	1	1			
Days After Planting	33DAP-1	33DAP-1	33DAP-1			
Days Application to Assessment	13 DA-A	13 DA-A	13 DA-A			
Days After Last Application	13	13	13			
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	7	8	9
16 AMMONIUM SULFATE	2.5 %v/v	A		99.0 a	0.0 c	8.8 a
COBRA 2 EC	175.0 gai/ha	A				
ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha	A				
COC	1.0 %v/v	A				
17 AMMONIUM SULFATE	2.5 %v/v	A		99.0 a	25.0 abc	5.0 ab
ULTRA BLAZER 2 SL	280.0 gai/ha	A				
ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha	A				
COC	1.0 %v/v	A				
18 A17898	1400.0 gae/ha	A		99.0 a	37.5 abc	1.3 b
METHYLATED SEED OIL	1.0 %v/v	A				
19 AMMONIUM SULFATE	2.5 %v/v	A		99.0 a	70.0 ab	1.3 b
FLEXSTAR GT 3.31 SL	1100.0 gai/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
20 AMMONIUM SULFATE	2.5 %v/v	A		99.0 a	42.3 abc	2.5 ab
FLEXSTAR GT 3.31 SL	1390.0 gai/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
21 AMMONIUM SULFATE	2.5 %v/v	A		99.0 a	37.3 abc	0.0 b
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
RESOURCE	22.6 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
22 AMMONIUM SULFATE	2.5 %v/v	A		99.0 a	27.5 abc	1.3 b
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
CADET 0.91 EC	4.0 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
23 AMMONIUM SULFATE	2.5 %v/v	A		99.0 a	54.8 abc	3.8 ab
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
COBRA 2 EC	175.0 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
24 AMMONIUM SULFATE	2.5 %v/v	A		95.5 a	40.0 abc	0.0 b
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
LSD (P=.05)				2.19	35.19	4.01
Standard Deviation				1.55	24.88	2.84
CV				1.63	54.84	122.73
Bartlett's X2				6.427	26.784	7.874
P(Bartlett's X2)				0.04*	0.178	0.993
Replicate F				0.806	0.258	0.298
Replicate Prob(F)				0.4946	0.8557	0.8265
Treatment F				679.886	3.367	2.146
Treatment Prob(F)				0.0001	0.0001	0.0079

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Assessment Date	6/30/2010 12:00 AM	6/30/2010 12:00 AM	6/30/2010 12:00 AM			
Assessed By	MW	MW	MW			
Crop Code	3 GLXMA	3 GLXMA	3 GLXMA			
Crop Variety	Asgrow 2939	Asgrow 2939	Asgrow 2939			
Crop Development	13 14	13 14	13 14			
Pest Code						
Pest Variety						
SE Group No.	3	4	1			
Part Assessed	LEADAM	PLADEA	PLACHL			
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW			
Number of Subsamples	1	1	1			
Days After Planting	33DAP-1	33DAP-1	33DAP-1			
Days Application to Assessment	13 DA-A	13 DA-A	13 DA-A			
Days After Last Application	13	13	13			
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	10	11	12
1 UNTREATED CHECK				0.0 d	0.0 b	0.0 c
2 AMMONIUM SULFATE TOUCHDOWN TOTAL 4.17 SL	2.5 %v/v 1120.0 gae/ha	A A		1.3 cd	0.0 b	0.0 c
3 AMMONIUM SULFATE FLEXSTAR 1.88 SL TOUCHDOWN TOTAL 4.17 SL MSO	2.5 %v/v 280.0 gai/ha 1120.0 gae/ha 1.0 %v/v	A A A A		7.3 ab	3.5 a	1.5 bc
4 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		9.3 ab	4.5 a	3.3 abc
5 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		9.3 ab	5.5 a	4.5 ab
6 AMMONIUM SULFATE A17898	2.5 %v/v 1400.0 gae/ha	A A		6.3 abc	3.0 a	2.3 bc
7 AMMONIUM SULFATE A17898	2.5 %v/v 2100.0 gae/ha	A A		9.3 ab	3.5 a	2.3 bc
8 AMMONIUM SULFATE A17898 MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		10.0 ab	4.5 a	4.0 abc
9 AMMONIUM SULFATE A17898 MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		9.3 ab	5.5 a	4.5 ab
10 ADDITIVE UAN 28-0-0 A17898 MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		8.8 ab	5.0 a	4.0 abc
11 ADDITIVE UAN 28-0-0 A17898 MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		9.3 ab	4.5 a	2.0 bc
12 AMMONIUM SULFATE A17898 COC	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		9.3 ab	5.0 a	3.5 abc
13 AMMONIUM SULFATE A17898 COC	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		8.5 ab	6.8 a	3.5 abc
14 ADDITIVE UAN 28-0-0 A17898 COC	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		9.3 ab	5.0 a	3.0 abc
15 ADDITIVE UAN 28-0-0 A17898 COC	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		9.8 ab	6.3 a	5.0 ab

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Assessment Date	6/30/2010 12:00 AM	6/30/2010 12:00 AM	6/30/2010 12:00 AM			
Assessed By	MW	MW	MW			
Crop Code	3 GLXMA	3 GLXMA	3 GLXMA			
Crop Variety	Asgrow 2939	Asgrow 2939	Asgrow 2939			
Crop Development	13 14	13 14	13 14			
Pest Code						
Pest Variety						
SE Group No.	3	4	1			
Part Assessed	LEADAM	PLADEA	PLACHL			
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW			
Number of Subsamples	1	1	1			
Days After Planting	33DAP-1	33DAP-1	33DAP-1			
Days Application to Assessment	13 DA-A	13 DA-A	13 DA-A			
Days After Last Application	13	13	13			
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	10	11	12
16 AMMONIUM SULFATE	2.5 %v/v	A		5.5 abc	6.8 a	1.5 bc
COBRA 2 EC	175.0 gai/ha	A				
ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha	A				
COC	1.0 %v/v	A				
17 AMMONIUM SULFATE	2.5 %v/v	A		10.5 a	6.0 a	5.3 ab
ULTRA BLAZER 2 SL	280.0 gai/ha	A				
ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha	A				
COC	1.0 %v/v	A				
18 A17898	1400.0 gae/ha	A		8.0 ab	4.5 a	4.5 ab
METHYLATED SEED OIL	1.0 %v/v	A				
19 AMMONIUM SULFATE	2.5 %v/v	A		11.3 a	4.5 a	2.0 bc
FLEXSTAR GT 3.31 SL	1100.0 gai/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
20 AMMONIUM SULFATE	2.5 %v/v	A		11.3 a	6.0 a	6.8 a
FLEXSTAR GT 3.31 SL	1390.0 gai/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
21 AMMONIUM SULFATE	2.5 %v/v	A		3.3 bcd	5.5 a	3.5 abc
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
RESOURCE	22.6 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
22 AMMONIUM SULFATE	2.5 %v/v	A		6.3 abc	4.5 a	3.0 abc
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
CADET 0.91 EC	4.0 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
23 AMMONIUM SULFATE	2.5 %v/v	A		8.8 ab	6.5 a	3.3 abc
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
COBRA 2 EC	175.0 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
24 AMMONIUM SULFATE	2.5 %v/v	A		1.3 cd	0.8 b	0.0 c
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
LSD (P=.05)				3.76	2.07	2.35
Standard Deviation				2.66	1.47	1.66
CV				35.0	32.75	54.69
Bartlett's X2				21.185	16.897	13.766
P(Bartlett's X2)				0.448	0.597	0.744
Replicate F				2.810	4.112	1.155
Replicate Prob(F)				0.0458	0.0096	0.3335
Treatment F				5.735	6.809	4.232
Treatment Prob(F)				0.0001	0.0001	0.0001

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Assessment Date				7/15/2010 12:00 AM	7/15/2010 12:00 AM	7/15/2010 12:00 AM	
Assessed By				MW	MW	MW	
Crop Code				4 GLXMA	4 GLXMA	4 GLXMA	
Crop Variety				Asgrow 2939	Asgrow 2939	Asgrow 2939	
Crop Development				15 51	15 51	15 51	
Pest Code				8 SETFA	9 AMBTR	10 AMASS	
Pest Variety							
SE Group No.				1	1	1	
Part Assessed							
Assessment Type, Sub-Type				NOR RAW	NOR RAW	NOR RAW	
Number of Subsamples				1	1	1	
Days After Planting							
Days Application to Assessment				28 DA-A	28 DA-A	28 DA-A	
Days After Last Application				28	28	28	
Trt	Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	13	14	15
1	UNTREATED CHECK				0.0 d	0.0 c	0.0 b
2	AMMONIUM SULFATE TOUCHDOWN TOTAL 4.17 SL	2.5 %v/v 1120.0 gae/ha	A A		97.5 a	92.0 ab	96.8 a
3	AMMONIUM SULFATE FLEXSTAR 1.88 SL TOUCHDOWN TOTAL 4.17 SL MSO	2.5 %v/v 280.0 gai/ha 1120.0 gae/ha 1.0 %v/v	A A A A		98.5 a	96.8 ab	96.8 a
4	AMMONIUM SULFATE FLEXSTAR GT 3.31 SL MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		97.5 a	97.0 ab	96.8 a
5	AMMONIUM SULFATE FLEXSTAR GT 3.31 SL MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		97.0 ab	94.3 ab	98.0 a
6	AMMONIUM SULFATE A17898	2.5 %v/v 1400.0 gae/ha	A A		97.0 ab	98.0 a	99.0 a
7	AMMONIUM SULFATE A17898	2.5 %v/v 2100.0 gae/ha	A A		98.0 a	99.0 a	99.0 a
8	AMMONIUM SULFATE A17898 MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		96.5 ab	93.8 ab	99.0 a
9	AMMONIUM SULFATE A17898 MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		97.0 ab	94.5 ab	99.0 a
10	ADDITIVE UAN 28-0-0 A17898 MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		97.0 ab	93.3 ab	99.0 a
11	ADDITIVE UAN 28-0-0 A17898 MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		98.0 a	99.0 a	99.0 a
12	AMMONIUM SULFATE A17898 COC	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		98.0 a	98.5 a	99.0 a
13	AMMONIUM SULFATE A17898 COC	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		94.8 ab	99.0 a	99.0 a
14	ADDITIVE UAN 28-0-0 A17898 COC	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		96.0 ab	94.5 ab	99.0 a
15	ADDITIVE UAN 28-0-0 A17898 COC	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		97.0 ab	98.0 a	99.0 a

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Assessment Date	7/15/2010 12:00 AM	7/15/2010 12:00 AM	7/15/2010 12:00 AM
Assessed By	MW	MW	MW
Crop Code	4 GLXMA	4 GLXMA	4 GLXMA
Crop Variety	Asgrow 2939	Asgrow 2939	Asgrow 2939
Crop Development	15 51	15 51	15 51
Pest Code	8 SETFA	9 AMBTR	10 AMASS
Pest Variety			
SE Group No.	1	1	1
Part Assessed			
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW
Number of Subsamples	1	1	1
Days After Planting			
Days Application to Assessment	28 DA-A	28 DA-A	28 DA-A
Days After Last Application	28	28	28
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code
	13	14	15
16 AMMONIUM SULFATE	2.5 %v/v	A	94.8 ab
COBRA 2 EC	175.0 gai/ha	A	90.8 ab
ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha	A	99.0 a
COC	1.0 %v/v	A	
17 AMMONIUM SULFATE	2.5 %v/v	A	93.8 ab
ULTRA BLAZER 2 SL	280.0 gai/ha	A	86.0 ab
ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha	A	98.0 a
COC	1.0 %v/v	A	
18 A17898	1400.0 gae/ha	A	97.5 a
METHYLATED SEED OIL	1.0 %v/v	A	94.5 ab
19 AMMONIUM SULFATE	2.5 %v/v	A	94.8 ab
FLEXSTAR GT 3.31 SL	1100.0 gai/ha	A	89.5 ab
METHYLATED SEED OIL	0.5 %v/v	A	99.0 a
20 AMMONIUM SULFATE	2.5 %v/v	A	99.0 a
FLEXSTAR GT 3.31 SL	1390.0 gai/ha	A	93.3 ab
METHYLATED SEED OIL	0.5 %v/v	A	99.0 a
21 AMMONIUM SULFATE	2.5 %v/v	A	97.0 ab
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A	90.0 ab
RESOURCE	22.6 gae/ha	A	99.0 a
METHYLATED SEED OIL	0.5 %v/v	A	
22 AMMONIUM SULFATE	2.5 %v/v	A	88.8 c
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A	88.3 ab
CADET 0.91 EC	4.0 gae/ha	A	94.3 a
METHYLATED SEED OIL	0.5 %v/v	A	
23 AMMONIUM SULFATE	2.5 %v/v	A	91.3 bc
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A	86.0 ab
COBRA 2 EC	175.0 gae/ha	A	99.0 a
METHYLATED SEED OIL	0.5 %v/v	A	
24 AMMONIUM SULFATE	2.5 %v/v	A	93.5 ab
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A	79.8 b
METHYLATED SEED OIL	0.5 %v/v	A	98.0 a
LSD (P=.05)	3.40	9.89	3.72
Standard Deviation	2.41	6.99	2.63
CV	2.61	7.82	2.79
Bartlett's X2	11.636	32.844	12.645
P(Bartlett's X2)	0.949	0.017*	0.049*
Replicate F	1.089	2.389	0.597
Replicate Prob(F)	0.3597	0.0762	0.6190
Treatment F	269.657	31.624	234.272
Treatment Prob(F)	0.0001	0.0001	0.0001

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Assessment Date	7/15/2010 12:00 AM	7/15/2010 12:00 AM	7/28/2010 12:00 AM			
Assessed By	MW	MW	WGJ			
Crop Code	4 GLXMA	4 GLXMA	4 GLXMA			
Crop Variety	Asgrow 2939	Asgrow 2939	Asgrow 2939			
Crop Development	15 51	15 51	15 51			
Pest Code	11 ABUTH	12 ZEAMX				
Pest Variety		Volunteer				
SE Group No.	1	1	1			
Part Assessed						
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW			
Number of Subsamples	1	1	1			
Days After Planting						
Days Application to Assessment	28 DA-A	28 DA-A	41 DA-A			
Days After Last Application	28	28	41			
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	16	17	18
1 UNTREATED CHECK				0.0 b	0.0 b	0.0 a
2 AMMONIUM SULFATE TOUCHDOWN TOTAL 4.17 SL	2.5 %v/v 1120.0 gae/ha	A A		99.0 a	40.0 ab	0.0 a
3 AMMONIUM SULFATE FLEXSTAR 1.88 SL TOUCHDOWN TOTAL 4.17 SL MSO	2.5 %v/v 280.0 gai/ha 1120.0 gae/ha 1.0 %v/v	A A A A		98.5 a	45.0 ab	0.0 a
4 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		95.8 a	76.0 a	0.0 a
5 AMMONIUM SULFATE FLEXSTAR GT 3.31 SL MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		96.8 a	40.0 ab	2.5 a
6 AMMONIUM SULFATE A17898	2.5 %v/v 1400.0 gae/ha	A A		98.0 a	60.0 ab	0.0 a
7 AMMONIUM SULFATE A17898	2.5 %v/v 2100.0 gae/ha	A A		99.0 a	67.3 a	0.0 a
8 AMMONIUM SULFATE A17898 MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		99.0 a	62.5 ab	0.0 a
9 AMMONIUM SULFATE A17898 MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		99.0 a	66.3 a	0.0 a
10 ADDITIVE UAN 28-0-0 A17898 MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		96.8 a	76.3 a	0.0 a
11 ADDITIVE UAN 28-0-0 A17898 MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		99.0 a	62.3 ab	0.0 a
12 AMMONIUM SULFATE A17898 COC	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		99.0 a	27.5 ab	0.0 a
13 AMMONIUM SULFATE A17898 COC	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		98.0 a	65.0 a	0.0 a
14 ADDITIVE UAN 28-0-0 A17898 COC	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		96.8 a	60.0 ab	0.0 a
15 ADDITIVE UAN 28-0-0 A17898 COC	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		99.0 a	67.5 a	0.0 a

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Assessment Date	7/15/2010 12:00 AM	7/15/2010 12:00 AM	7/28/2010 12:00 AM			
Assessed By	MW	MW	WGJ			
Crop Code	4 GLXMA	4 GLXMA	4 GLXMA			
Crop Variety	Asgrow 2939	Asgrow 2939	Asgrow 2939			
Crop Development	15 51	15 51	15 51			
Pest Code	11 ABUTH	12 ZEAMX				
Pest Variety		Volunteer				
SE Group No.	1	1	1			
Part Assessed						
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW			
Number of Subsamples	1	1	1			
Days After Planting						
Days Application to Assessment	28 DA-A	28 DA-A	41 DA-A			
Days After Last Application	28	28	41			
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	16	17	18
16 AMMONIUM SULFATE	2.5 %v/v	A		96.8 a	12.5 ab	0.0 a
COBRA 2 EC	175.0 gai/ha	A				
ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha	A				
COC	1.0 %v/v	A				
17 AMMONIUM SULFATE	2.5 %v/v	A		96.8 a	48.8 ab	0.0 a
ULTRA BLAZER 2 SL	280.0 gai/ha	A				
ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha	A				
COC	1.0 %v/v	A				
18 A17898	1400.0 gae/ha	A		96.8 a	50.0 ab	0.0 a
METHYLATED SEED OIL	1.0 %v/v	A				
19 AMMONIUM SULFATE	2.5 %v/v	A		99.0 a	65.0 a	0.0 a
FLEXSTAR GT 3.31 SL	1100.0 gai/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
20 AMMONIUM SULFATE	2.5 %v/v	A		96.8 a	52.5 ab	0.0 a
FLEXSTAR GT 3.31 SL	1390.0 gai/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
21 AMMONIUM SULFATE	2.5 %v/v	A		99.0 a	39.8 ab	0.0 a
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
RESOURCE	22.6 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
22 AMMONIUM SULFATE	2.5 %v/v	A		99.0 a	47.5 ab	0.0 a
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
CADET 0.91 EC	4.0 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
23 AMMONIUM SULFATE	2.5 %v/v	A		98.0 a	61.3 ab	0.0 a
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
COBRA 2 EC	175.0 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
24 AMMONIUM SULFATE	2.5 %v/v	A		98.0 a	43.8 ab	0.0 a
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
LSD (P=.05)				3.77	35.08	1.44
Standard Deviation				2.67	24.81	1.02
CV				2.84	48.15	979.8
Bartlett's X2				15.117	30.463	0.0
P(Bartlett's X2)				0.235	0.108	.
Replicate F				1.493	0.299	1.000
Replicate Prob(F)				0.2242	0.8258	0.3982
Treatment F				225.425	2.277	1.000
Treatment Prob(F)				0.0001	0.0046	0.4773

Purdue University

Assessment Date				7/28/2010 12:00 AM	7/28/2010 12:00 AM	10/14/2010 10:21 AM	
Assessed By				WGJ	WGJ	Yield	
Crop Code				4 GLXMA	4 GLXMA	1 GLXMA	
Crop Variety				Asgrow 2939	Asgrow 2939	Asgrow 2939	
Crop Development				15 51	15 51	12 13	
Pest Code				1 SETFA	9 AMBTR		
Pest Variety							
SE Group No.				1	5	5	
Part Assessed							
Assessment Type, Sub-Type				NOR RAW	NOR RAW	NOR RAW	
Number of Subsamples				1	1	1	
Days After Planting							
Days Application to Assessment				41 DA-A	41 DA-A	119 DA-A	
Days After Last Application				41	41	119	
Trt	Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	19	20	21
1	UNTREATED CHECK				0.0 b	0.0 b	44.63 b
2	AMMONIUM SULFATE TOUCHDOWN TOTAL 4.17 SL	2.5 %v/v 1120.0 gae/ha	A A		99.0 a	89.8 a	76.73 a
3	AMMONIUM SULFATE FLEXSTAR 1.88 SL TOUCHDOWN TOTAL 4.17 SL MSO	2.5 %v/v 280.0 gai/ha 1120.0 gae/ha 1.0 %v/v	A A A A		99.0 a	94.8 a	78.55 a
4	AMMONIUM SULFATE FLEXSTAR GT 3.31 SL MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		99.0 a	99.0 a	77.70 a
5	AMMONIUM SULFATE FLEXSTAR GT 3.31 SL MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		99.0 a	99.0 a	79.73 a
6	AMMONIUM SULFATE A17898	2.5 %v/v 1400.0 gae/ha	A A		99.0 a	96.8 a	79.70 a
7	AMMONIUM SULFATE A17898	2.5 %v/v 2100.0 gae/ha	A A		99.0 a	99.0 a	79.13 a
8	AMMONIUM SULFATE A17898 MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		98.5 a	93.5 a	79.05 a
9	AMMONIUM SULFATE A17898 MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		99.0 a	98.0 a	80.68 a
10	ADDITIVE UAN 28-0-0 A17898 MSO	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		98.0 a	96.8 a	84.33 a
11	ADDITIVE UAN 28-0-0 A17898 MSO	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		99.0 a	99.0 a	79.18 a
12	AMMONIUM SULFATE A17898 COC	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		99.0 a	99.0 a	79.58 a
13	AMMONIUM SULFATE A17898 COC	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		99.0 a	99.0 a	79.73 a
14	ADDITIVE UAN 28-0-0 A17898 COC	2.5 %v/v 1400.0 gae/ha 1.0 %v/v	A A A		99.0 a	96.8 a	79.48 a
15	ADDITIVE UAN 28-0-0 A17898 COC	2.5 %v/v 2100.0 gae/ha 1.0 %v/v	A A A		99.0 a	99.0 a	81.85 a

Purdue University

Assessment Date	7/28/2010 12:00 AM	7/28/2010 12:00 AM	10/14/2010 10:21 AM			
Assessed By	WGJ	WGJ	Yield			
Crop Code	4 GLXMA	4 GLXMA	1 GLXMA			
Crop Variety	Asgrow 2939	Asgrow 2939	Asgrow 2939			
Crop Development	15 51	15 51	12 13			
Pest Code	1 SETFA	9 AMBTR				
Pest Variety						
SE Group No.	1	5	5			
Part Assessed						
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW			
Number of Subsamples	1	1	1			
Days After Planting						
Days Application to Assessment	41 DA-A	41 DA-A	119 DA-A			
Days After Last Application	41	41	119			
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	19	20	21
16 AMMONIUM SULFATE	2.5 %v/v	A		96.3 a	77.0 a	72.23 a
COBRA 2 EC	175.0 gai/ha	A				
ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha	A				
COC	1.0 %v/v	A				
17 AMMONIUM SULFATE	2.5 %v/v	A		96.5 a	83.5 a	79.10 a
ULTRA BLAZER 2 SL	280.0 gai/ha	A				
ROUNDUP POWERMAX 4.5 SL	1120.0 gae/ha	A				
COC	1.0 %v/v	A				
18 A17898	1400.0 gae/ha	A		99.0 a	96.8 a	77.40 a
METHYLATED SEED OIL	1.0 %v/v	A				
19 AMMONIUM SULFATE	2.5 %v/v	A		99.0 a	79.5 a	79.33 a
FLEXSTAR GT 3.31 SL	1100.0 gai/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
20 AMMONIUM SULFATE	2.5 %v/v	A		99.0 a	99.0 a	80.48 a
FLEXSTAR GT 3.31 SL	1390.0 gai/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
21 AMMONIUM SULFATE	2.5 %v/v	A		99.0 a	72.5 a	77.73 a
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
RESOURCE	22.6 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
22 AMMONIUM SULFATE	2.5 %v/v	A		99.0 a	74.5 a	74.55 a
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
CADET 0.91 EC	4.0 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
23 AMMONIUM SULFATE	2.5 %v/v	A		98.5 a	72.3 a	74.88 a
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
COBRA 2 EC	175.0 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
24 AMMONIUM SULFATE	2.5 %v/v	A		99.0 a	79.8 a	80.30 a
ROUNDUP POWERMAX 4.5 SL	870.0 gae/ha	A				
METHYLATED SEED OIL	0.5 %v/v	A				
LSD (P=.05)				1.50	18.60	9.701
Standard Deviation				1.06	13.15	6.859
CV				1.12	15.07	8.87
Bartlett's X2				8.831	48.605	56.262
P(Bartlett's X2)				0.065	0.001*	0.001*
Replicate F				1.865	1.259	1.385
Replicate Prob(F)				0.1436	0.2953	0.2547
Treatment F				1447.696	10.194	4.636
Treatment Prob(F)				0.0001	0.0001	0.0001

