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Country: UNITED STATES OF AMERICA Region: Trial Use: Normal
 Discipline: HERBICIDE Sequence: Year: 2007
 Trial Id.: US__0H__2007 Protocol Id.: HMS005A4-2007US Revision Date: FEB14
 Master Protocol Id.:

Trial Origin: COOPERATOR TRIAL Licensee: Dr. William G. Johnson GEP: N

 Title: Weed Control and Corn Yield with A15189 at Universities

SITE AND DESIGN

Plot Width: 10 Unit: FT Plot Length: 30 Unit: FT Plot Area: 300.0 Unit: FT² No Reps: 4 No Treats: 7

Site Description Event Date: Jun/19/2007 Study Design: RACOBL

Trial Location: Throckmorton-Purdue Ag Center (TPAC) Farm/Station Name: TPAC
 County: Tippecanoe Farm Manager: Jay Young
 State/Province: IN Street: 8343 US 231 South
 Postal Code: 47909 City+State/Prov: Lafayette, IN
 Cooperator Name: Jay Young Postal Code: 47909-9049
 Country: UNITED STATES OF AMERICA
 Phone Number: 765-538-3422

Fertility Level: GOOD N-Latitude of LL Corner/°: 40.000000 Distance to Weather Station: 0.0 Unit: MI
 Soil Texture: SANDY LOAM E-Longitude of LL Corner/°: 86.000000 Closest Weather Station: TPAC
 Soil Drainage: GOOD Altitude of LL Corner/m: 732.00
 Tillage Type: CONVENTIONAL-TILL

SITE USAGE

No.	Site Type
1.	FIELD

No.
1.

No.
1.

No.
1.

No.	Date or	Previous Crop/Pest
1.	Oct/08/2007	GLYCINE MAX

GENERAL TRIAL INFORMATION

Initiation Date: Apr/24/2007 Protocol Id. : HMS005A4-2007US
 Title: Weed Control and Corn Yield with A15189 at Universities
 Intl./Overall Protocol Owner : Gordon Vail Investigator: Dr. William G. Johns
 Local Protocol Responsibility: Brett Miller Title: R&D Scientist
 Affiliation: Syngenta

No.	SYPOS Project	SYPOS Task
1.	P000047-02	T007003-06

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TRIAL STATUS	
1. Date: Apr/24/2007 Comment: Generated by ARM	TRIAL STATUS: ESTABLISHED

SEED DESCRIPTION	
1. Date: Apr/24/2007 Area: Trial Crop: FIELD CORN Genetic Type A: GLYPHOSATE-R Comment: Emergence Date May/2/2007	Var: DKC 60-18

CROP OCCURRENCE

	1.
Date:	Apr/24/2007
Area:	Trial
Crop:	FIELD CORN
Crop Code:	ZEAMX
BBCH Scale:	BCOR
Variety:	DKC 60-18
Seed Description:	1
Planting Date:	Apr/24/2007
Ground Cover:	Conventional Till
Planting Depth Min, Max, Unit:	1.0 2.0 IN
Row Spacing, Unit:	30.0 IN
Planting Rate, Unit:	32000.0 S/A
Method:	DIRECT DRILLED
Genetic Type A:	GLYPHOSATE-R

PEST OCCURRENCE

	1.	2.	3.
Date:	May/18/2007	May/18/2007	May/18/2007
Area:	Trial	Trial	Trial
Pest:	AMBROSIA TRIFIDA	SETARIA FABERI	CHENOPODIUM ALBUM
Pest Code:	AMBTR	SETFA	CHEAL
Stage Scale:	BBCH	BGRM	BBCH
Variety:	Giant Ragweed	Giant Foxtail	Common Lambsquarter
OCCURRENCE TYPE:	OCCURRED	OCCURRED	OCCURRED

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	4.	5.
Date:	May/31/2007	May/31/2007
Area:	Trial	Trial
Pest:	ABUTILON THEOPHRASTI	IPOMOEA HEDERACEA
Pest Code:	ABUTH	IPOHE
Stage Scale:	BBCH	BDIC
Variety:	Velvetleaf	Ivyleaf morningglory
OCCURRENCE TYPE:	OCCURRED	OCCURRED

CROP DEVELOPMENT

	1.	2.
Date:	May/21/2007	May/25/2007
Crop:	1 FIELD CORN	1 FIELD CORN
Crop Code:	ZEAMX	ZEAMX
BBCH Scale:	BCOR	BCOR
Variety:	DKC 60-18	DKC 60-18
Dev. Stage Min, Max:	13 14	14 14
Height Min, Max, Unit:	1.0 3.0 IN	

Tree/Crop Row Volume Information		
Height Total (m):	0.05	

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	3.	4.
Date:	May/29/2007	Jun/14/2007
Crop:	1 FIELD CORN	1 FIELD CORN
Crop Code:	ZEAMX	ZEAMX
BBCH Scale:	BCOR	BCOR
Variety:	DKC 60-18	DKC 60-18
Dev. Stage Min, Max:	16 17	18 39
Height Min, Max, Unit:		32.0 42.0 IN

Tree/Crop Row Volume Information		
Height Total (m):		0.94
	5.	6.
Date:	Jul/09/2007	Oct/01/2007
Crop:	1 FIELD CORN	1 FIELD CORN
Crop Code:	ZEAMX	ZEAMX
BBCH Scale:	BCOR	BCOR
Variety:	DKC 60-18	DKC 60-18
Dev. Stage Min, Max:		99 99
Height Min, Max, Unit:		

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

PEST DEVELOPMENT

	1.	2.
Date:	May/18/2007	May/18/2007
Pest:	1 AMBROSIA TRIFIDA	2 SETARIA FABERI
Pest Code:	AMBTR	SETFA
Stage Scale:	BBCH	BGRM
Variety:	Giant Ragweed	Giant Foxtail
Density Min, Max:	2.0 4.0	28.0 30.0
Unit:	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	1.0 3.0 IN	1.0 3.0 IN
Leaves Min, Max:		2.0 3.0

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	3.	4.
Date:	May/18/2007	May/21/2007
Pest:	3 CHENOPODIUM ALBUM	1 AMBROSIA TRIFIDA
Pest Code:	CHEAL	AMBTR
Stage Scale:	BBCH	BBCH
Variety:	Common Lambsquarter	Giant Ragweed
Density Min, Max:	13.0 15.0	1.0 4.0
Unit:	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	0.5 3.0 IN	1.0 4.0 IN
Leaves Min, Max:	2.0 6.0	
	5.	6.
Date:	May/21/2007	May/21/2007
Pest:	2 SETARIA FABERI	3 CHENOPODIUM ALBUM
Pest Code:	SETFA	CHEAL
Stage Scale:	BGRM	BBCH
Variety:	Giant Foxtail	Common Lambsquarter
Density Min, Max:	60.0 70.0	13.0 15.0
Unit:	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	1.0 3.0 IN	1.0 4.0 IN
Leaves Min, Max:	2.0 4.0	2.0 6.0
	7.	8.
Date:	May/31/2007	May/31/2007
Pest:	2 SETARIA FABERI	1 AMBROSIA TRIFIDA
Pest Code:	SETFA	AMBTR
Stage Scale:	BGRM	BBCH
Variety:	Giant Foxtail	Giant Ragweed
Density Min, Max:	60.0 80.0	5.0 8.0
Unit:	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	0.0 10.0 IN	0.0 12.0 IN
Leaves Min, Max:	0.0 4.0	
	9.	10.
Date:	May/31/2007	May/31/2007
Pest:	3 CHENOPODIUM ALBUM	5 IPOMOEA HEDERACEA
Pest Code:	CHEAL	IPOHE
Stage Scale:	BBCH	BDIC
Variety:	Common Lambsquarter	Ivyleaf morningglory
Density Min, Max:	0.0 8.0	0.0 2.0
Unit:	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	0.0 7.0 IN	0.0 5.0 IN
Leaves Min, Max:	8.0 11.0	0.0 6.0

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	11.	12.
Date:	May/31/2007	Jun/14/2007
Pest:	4 ABUTILON THEOPHRASTI	4 ABUTILON THEOPHRASTI
Pest Code:	ABUTH	ABUTH
Stage Scale:	BBCH	BBCH
Variety:	Velvetleaf	Velvetleaf
Density Min, Max:	0.0 1.0	1.0 2.0
Unit:	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	4.0 6.0 IN	12.0 18.0 IN
Leaves Min, Max:	6.0 8.0	
	13.	14.
Date:	Jun/14/2007	Jun/14/2007
Pest:	5 IPOMOEA HEDERACEA	1 AMBROSIA TRIFIDA
Pest Code:	IPOHE	AMBTR
Stage Scale:	BDIC	BBCH
Variety:	Ivyleaf morningglory	Giant Ragweed
Density Min, Max:	2.0 4.0	5.0 8.0
Unit:	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	1.0 8.0 IN	12.0 42.0 IN
Leaves Min, Max:		
	15.	16.
Date:	Jun/14/2007	Jun/14/2007
Pest:	2 SETARIA FABERI	3 CHENOPODIUM ALBUM
Pest Code:	SETFA	CHEAL
Stage Scale:	BGRM	BBCH
Variety:	Giant Foxtail	Common Lambsquarter
Density Min, Max:	60.0 80.0	2.0 5.0
Unit:	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	6.0 18.0 IN	6.0 32.0 IN
Leaves Min, Max:		
	17.	18.
Date:	Jul/09/2007	Jul/09/2007
Pest:	2 SETARIA FABERI	1 AMBROSIA TRIFIDA
Pest Code:	SETFA	AMBTR
Stage Scale:	BGRM	BBCH
Variety:	Giant Foxtail	Giant Ragweed
Density Min, Max:	60.0 80.0	5.0 8.0
Unit:	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	24.0 48.0 IN	48.0 84.0 IN
Leaves Min, Max:		

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	19.	20.
Date:	Jul/09/2007	Jul/09/2007
Pest:	4 ABUTILON THEOPHRASTI	3 CHENOPODIUM ALBUM
Pest Code:	ABUTH	CHEAL
Stage Scale:	BBCH	BBCH
Variety:	Velvetleaf	Common Lambsquarter
Density Min, Max:	1.0 2.0	2.0 5.0
Unit:	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	36.0 48.0 IN	36.0 60.0 IN
Leaves Min, Max:		

	21.
Date:	Jul/09/2007
Pest:	5 IPOMOEA HEDERACEA
Pest Code:	IPOHE
Stage Scale:	BDIC
Variety:	Ivyleaf morningglory
Density Min, Max:	2.0 4.0
Unit:	PER SQUARE YARD
Height Min, Max, Unit:	36.0 48.0 IN
Leaves Min, Max:	

WEATHER DESCRIPTION					
1. Date:	Apr/24/2007	Air Temp. Min: 76.0	Max: 76.0	Unit: F	% Rel. Humidity Min: 55.0 Max: 55.0
	Wind Velocity Min: 5.0	Max: 7.0	Unit: MPH	Wind Direction: W	
	Sky Condition: 30% Cloud				
	Sky Condition after: 30% Cloud				
2. Date:	May/18/2007	Air Temp. Min: 57.0	Max: 57.0	Unit: F	% Rel. Humidity Min: 47.0 Max: 47.0
	Wind Velocity Min: 2.0	Max: 7.0	Unit: MPH	Wind Direction: N	
	Sky Condition: 0% Cloud				
	Sky Condition after: 0% Cloud				
3. Date:	May/21/2007	Air Temp. Min: 68.0	Max: 68.0	Unit: F	% Rel. Humidity Min: 58.0 Max: 58.0
	Wind Velocity Min: 5.0	Max: 7.0	Unit: MPH	Wind Direction: SE	
	Sky Condition: 0% Cloud				
	Sky Condition after: 0% Cloud				
4. Date:	May/29/2007	Air Temp. Min: 88.0	Max: 88.0	Unit: F	% Rel. Humidity Min: 47.0 Max: 47.0
	Wind Velocity Min: 0.0	Max: 2.0	Unit: MPH	Wind Direction: SW	
	Sky Condition: 30% Cloud				
	Sky Condition after: 30% Cloud				

No.	Date	Soil Temp.	Unit	Soil Moisture Condition
1.	Apr/24/2007	67.0	F	Moist
2.	May/18/2007	52.0	F	Moist
3.	May/21/2007	60.0	F	Dry
4.	May/29/2007	80.0	F	Moist

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APPLICATION

	A	B	C	D
Application Date/Time:	Apr/24/2007 02:45 AM	May/18/2007 09:45 AM	May/21/2007 08:30 AM	May/29/2007 01:58 PM
Applied By:	KW/ AW	AW	KW	AW/ KW
Target (Crop):		1 ZEAMX	1 ZEAMX	3 ZEAMX
Variety (Crop):		DKC 60-18	DKC 60-18	DKC 60-18
Development (Crop):		13 14	13 14	16 17
Weather:	1	2	3	4
Soil:	1	2	3	4
Equipment Name:	Backpack sprayer	Backpack sprayer	Backpack sprayer	Backpack sprayer
Application Equipment:	BACSPR	BACSPR	BACSPR	BACSPR
Pressure, Unit:	15 PSI	15 PSI	15 PSI	15 PSI
Nozzle Type:	FLAFAN	FLAFAN	FLAFAN	FLAFAN
Nozzle Description:	XR11002	XR11002	XR11002	XR11002
Nozzle Spacing, Unit:	15 IN	15 IN	15 IN	15 IN
Band Width, Unit:	15 IN	15 IN	15 IN	15 IN
Boom Length, Unit:	10 FT	10 FT	10 FT	10 FT
Boom Height, Unit:	15 IN	15 IN	15 IN	15 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 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
Application Method:	NONINC	NONINC	NONINC	NONINC
Application Timing:	PREPRE	EAPOCR	POSPOS	POSPOS
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL

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No.	Date/Time	Area	Type	Amount	Unit
1.	Apr/01/2007 12:00 AM	Trial	RAIN	0.19	IN
2.	Apr/11/2007 12:00 AM	Trial	RAIN	0.48	IN
3.	Apr/23/2007 12:00 AM	Trial	RAIN	0.01	IN
4.	Apr/24/2007 12:00 AM	Trial	RAIN	0.01	IN
5.	Apr/25/2007 12:00 AM	Trial	RAIN	0.48	IN
6.	Apr/26/2007 12:00 AM	Trial	RAIN	0.04	IN
7.	May/15/2007 12:00 AM	Trial	RAIN	0.09	IN
8.	May/17/2007 12:00 AM	Trial	RAIN	0.1	IN
9.	May/22/2007 12:00 AM	Trial	RAIN	0.08	IN
10.	May/25/2007 12:00 AM	Trial	RAIN	0.67	IN
11.	Jun/03/2007 12:00 AM	Trial	RAIN	0.22	IN
12.	Jun/08/2007 12:00 AM	Trial	RAIN	0.08	IN
13.	Jun/19/2007 12:00 AM	Trial	RAIN	0.19	IN
14.	Jun/22/2007 12:00 AM	Trial	RAIN	0.98	IN
15.	Jun/27/2007 12:00 AM	Trial	RAIN	0.02	IN
16.	Jul/04/2007 12:00 AM	Trial	RAIN	0.05	IN
17.	Jul/10/2007 12:00 AM	Trial	RAIN	0.04	IN
18.	Jul/12/2007 12:00 AM	Trial	RAIN	0.02	IN
19.	Jul/17/2007 12:00 AM	Trial	RAIN	0.93	IN
20.	Jul/25/2007 12:00 AM	Trial	RAIN	0.32	IN
21.	Aug/04/2007 12:00 AM	Trial	RAIN	0.01	IN
22.	Aug/14/2007 12:00 AM	Trial	RAIN	0.36	IN
23.	Aug/20/2007 12:00 AM	Trial	RAIN	1.85	IN
24.	Aug/24/2007 12:00 AM	Trial	RAIN	0.97	IN
25.	Sep/06/2007 12:00 AM	Trial	RAIN	0.96	IN
26.	Sep/13/2007 12:00 AM	Trial	RAIN	0.13	IN
27.	Sep/25/2007 12:00 AM	Trial	RAIN	0.07	IN
28.	Oct/01/2007 12:00 AM	Trial	RAIN	0.02	IN

No.	Date	Area	Laboratory Name	pH/KCL	pH/H2O	CEC	Soil Texture
1.	Feb/17/2004	Trial	A&L Great Lakes Laboratories, INC.	6.2	6.2	13.3	SILT LOAM
	Soil Component:						% Organic Matter: 2.9
	Soil Element:		P: 34.0	PPM	K: 124.0	PPM	Ca: 1400.0
							Mg: 430.0
							PPM

No.	Soil Analy. No.
1.	1

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1. INOCULATION/INFESTATION

No.	Date	Area	TYPE	Rate	Unit
1.	Apr/21/2007	Trial	CULTIVATION		
2.	Apr/23/2007	Trial	FERTILIZATION	56.0	GPA

No.
1.

No.	Date	General Comments
1.		
Code		Crop Occurrence Comment
1.		
Code		Pest Occurrence Comment
1.		
Code		Crop Development Comment
1.		
Code		Pest Development Comment
1.		
Code		Comment
1.		
Code		Comment
1.		

Area Name	Treatment Numbers in Area
1.	

INSTRUCTIONS

Crops: CORN
 Targets: BBBAN, GGGAN

=====
 Objective Notes:
 =====
 Evaluate A15189 for weed control, crop tolerance and corn yield.

Compare A15189 to competitive herbicide programs for weed control, crop tolerance corn yield.

Can a single application of A15189 provide optimum weed control and corn yield.

Secondary Objective:
 Evaluate A15189 for weed control and corn yield in glyphosate resistant weeds.

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 Critical Protocol Tasks:
 =====
 Have University Scientists gain experience with A15189 in corn.

Yields are critical in these trials.
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Trial Design Notes:
 =====
 RCBD with 4 replicates
 Plot size large enough for valid yield comparisons
 =====

Treatment Notes:
 =====
 A = Pre-emergence application
 B = Early post to 1-3" weeds
 C = Post emergence 3-4" weeds
 D = 2-4" weed regrowth or V8 corn - whichever is first

Please target 10 to 15 GPA application volume
 IMPORTANT to report the actual GPA used by each researcher

IMPORTANT Use Lexar at 2440 g ai/h (2.35 qt/A) instead of Lumax in treatment #4 if Lexar is the preferred product for your region or substitute another SYNGENTA STANDARD TREATMENT.

IMPORTANT Use Harness Xtra 6.0 (light atrazine) formulation at 2020 g ai/h (1.2 qt/A) in treatment #5 if you are in a lower atrazine region or substitute another NON SYNGENTA STANDARD TREATMENT.

The AATREX rate in treatment #3 can be adjusted from 560 up to 1120 g ai/h as required for each local area.

PLEASE feel free to add additional standard competitive treatments for your region to the bottom of the treatment list.

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Assessment Notes:
 =====

Please evaluate corn injury at 3-7, 14 and 28 Days after B (early post)
 Please evaluate weed control at 14, 28 and 56 Days after B (early post)

Please report yield at harvest adjusted to 15.5% moisture
 =====

Reporting Notes:
 Date Data Required By: National Results Meeting
 =====

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Other Notes:
 =====

These are to be established and conducted by University COI in corn growing areas of the U.S.

Target these trials in University testing in fields with confirmed glyphosate resistant weeds if possible.

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	Trans. Code
1.	1	W003	% weed control	PLANT	CONTRO	%	1.0	PLOT	1.0	PLOT	1.0	PLOT	NOR	RAW	NC	S	0
2.	2	X001	% General phyto on p	PLANT	PHYGEN	%	1.0	PLOT	1.0	PLOT	1.0	PLOT	NOR	RAW	NC	S	0
3.	3	Y086	% moisture content o	GRAIN	CONMOI	%	1.0	PLOT	1.0	PLOT	1.0	PLOT	YLM	MOI	NC	O	0
4.				GRAIN	YIELD	BU	1.0	PLOT	1.0	PLOT	1.0	ACRE	YLD	RAW	NC	O	

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No.	Timing ID
1.	1
2.	2
3.	3
4.	

No.	Task	Comment
1.		Trial Comments

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Country: UNITED STATES OF AMERICA Region: Trial Use: Normal
 Discipline: HERBICIDE Sequence: Year: 2007
 Trial Id.: US_0H_2007 Protocol Id.: HMS005A4-2007US Revision Date: FEB14
 Master Protocol Id.:

Trial Origin: COOPERATOR TRIAL Licensee: Dr. William G. Johnson GEP: N

 Title: Weed Control and Corn Yield with A15189 at Universities

Assessment Date	May/25/2007 12:00 AM	May/31/2007 12:00 AM								
Assessed By	AW+BN	MK+KW+VM								
Crop Code	2 ZEAMX	3 ZEAMX								
Crop Variety	DKC 60-18									
Crop Development	14 14	16 17	16 17	16 17	16 17	16 17	16 17	16 17		
Pest Code			7 SETFA	8 AMBTR	11 ABUTH	9 CHEAL	10 IPOHE			
Pest Variety			Giant Foxtail	Giant Ragweed	Velvetleaf	Common Lambsquarter	Ivyleaf morningglory			
SE Group No.	1	2	2	2	2	2	2	2		
Part Assessed	PLADAM	PLADAM	ORGTOT	ORGTOT	ORGTOT	ORGTOT	ORGTOT	ORGTOT		
Assessment Data Type	PHYGEN	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Assessment Unit	%	%	%	%	%	%	%	%		
Assessment Type, Sub-Type	NOR RAW									
Number of Subsamples	1	1	1	1	1	1	1	1		
ARM Action Codes										
Days After Planting	31DAP-1	37DAP-1								
Days After Last Application	4	2	2	2	2	2	2	2		
No. Decimals Reported										
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Plot	1	2	3	4	5	6	7
1 CHECK UNTREATED			101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			205	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			302	5.0	0.0	0.0	0.0	0.0	0.0	0.0
			406	5.0	0.0	0.0	0.0	0.0	0.0	0.0
			Mean =	2.5	0.0	0.0	0.0	0.0	0.0	0.0
2 AMMONIUM SULFATE SG	1.0 %w/v		102	0.0	0.0	99.0	93.0	100.0	100.0	77.0
A15189	2460.0 gai/ha		207	5.0	0.0	97.0	97.0	100.0	100.0	83.0
NIS	0.25 %v/v		301	0.0	0.0	98.0	77.0	100.0	100.0	65.0
			404	0.0	0.0	98.0	95.0	100.0	100.0	93.0
			Mean =	1.3	0.0	98.0	90.5	100.0	100.0	79.5
3 AMMONIUM SULFATE SG	1.0 %w/v		103	5.0	0.0	99.0	98.0	100.0	100.0	93.0
A15189	2460.0 gai/ha		206	0.0	0.0	99.0	100.0	100.0	100.0	90.0
AATREX 4L	560.0 gai/ha		303	0.0	0.0	99.0	97.0	100.0	100.0	87.0
NIS	0.25 %v/v		405	0.0	0.0	99.0	98.0	100.0	100.0	91.0
			Mean =	1.3	0.0	99.0	98.3	100.0	100.0	90.3
4 LUMAX 3.94 SE	2200.0 gai/ha		104	5.0	0.0	83.0	77.0	100.0	100.0	88.0
AMMONIUM SULFATE SG	1.0 %w/v		201	0.0	0.0	50.0	0.0	50.0	70.0	83.1*
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha		305	0.0	0.0	93.0	0.0	100.0	98.0	93.0
			402	5.0	0.0	77.0	0.0	50.0	87.0	67.0
			Mean =	2.5	0.0	75.8	19.3	75.0	88.8	82.8

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Assessment Date	May/25/2007 12:00 AM	May/31/2007 12:00 AM								
Assessed By	AW+BN	MK+KW+VM								
Crop Code	2 ZEAMX	3 ZEAMX								
Crop Variety	DKC 60-18									
Crop Development	14 14	16 17	16 17	16 17	16 17	16 17	16 17	16 17		
Pest Code			7 SETFA	8 AMBTR	11 ABUTH	9 CHEAL	10 IPOHE			
Pest Variety			Giant Foxtail	Giant Ragweed	Velvetleaf	Common Lambsquarter	Ivyleaf morningglory			
SE Group No.	1	2	2	2	2	2	2	2		
Part Assessed	PLADAM	PLADAM	ORGTOT	ORGTOT	ORGTOT	ORGTOT	ORGTOT	ORGTOT		
Assessment Data Type	PHYGEN	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Assessment Unit	%	%	%	%	%	%	%	%		
Assessment Type, Sub-Type	NOR RAW									
Number of Subsamples	1	1	1	1	1	1	1	1		
ARM Action Codes										
Days After Planting	31DAP-1	37DAP-1								
Days After Last Application	4	2	2	2	2	2	2	2		
No. Decimals Reported										
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Plot	1	2	3	4	5	6	7
5 HARNESS XTRA 5.6L	2360.0	gai/ha	105	5.0	0.0	95.0	0.0	25.0	60.0	87.0
AMMONIUM SULFATE SG	1.0	%w/v	204	0.0	0.0	83.0	0.0	0.0	100.0	94.5*
ROUNDUP ORIGINAL MAX 4.5 SL	870.0	gae/ha	304	10.0	0.0	97.0	0.0	0.0	85.0	95.0
			403	0.0	0.0	83.0	0.0	0.0	73.9*	100.0
			Mean =	3.8	0.0	89.5	0.0	6.3	79.7	94.1
6 AMMONIUM SULFATE SG	1.0	%w/v	106	10.0	0.0	95.0	93.0	100.0	77.0	50.0
ROUNDUP ORIGINAL MAX 4.5 SL	870.0	gae/ha	202	0.0	0.0	95.0	93.0	97.0	100.0	80.2*
			306	5.0	0.0	99.0	96.0	100.0	90.0	94.0
			407	10.0	0.0	99.0	95.0	95.0	47.0	95.0
			Mean =	6.3	0.0	97.0	94.3	98.0	78.5	79.8
7 AMMONIUM SULFATE SG	1.0	%w/v	107	5.0	0.0	98.0	90.0	100.0	83.0	95.0
ROUNDUP ORIGINAL MAX 4.5 SL	870.0	gae/ha	203	5.0	0.0	98.0	90.0	100.0	98.0	93.0
AMMONIUM SULFATE SG	1.0	%w/v	307	10.0	0.0	99.0	100.0	98.0	87.0	97.0
ROUNDUP ORIGINAL MAX 4.5 SL	870.0	gae/ha	401	5.0	0.0	96.0	90.0	100.0	87.0	93.0
			Mean =	6.3	0.0	97.8	92.5	99.5	88.8	94.5

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Assessment Date	Jun/14/2007 12:00 AM	Jun/09/2007 12:00 AM	Jun/09/2007 12:00 AM							
Assessed By	VD+GK	VD+GK	VD+GK	VD+GK	VD+GK	VD+GK	AW+GK+MK	AW+GK+MK		
Crop Code	4 ZEAMX	5 ZEAMX	5 ZEAMX							
Crop Variety	DKC 60-18									
Crop Development	18 39	18 39	18 39	18 39	18 39	18 39				
Pest Code	15 SETFA	14 AMBTR	12 ABUTH	16 CHEAL	13 IPOHE		17 SETFA	18 AMBTR		
Pest Variety	Giant Foxtail	Giant Ragweed	Velvetleaf	Common Lambsquarter	Ivyleaf morningglory		Giant Foxtail	Giant Ragweed		
SE Group No.	3	3	3	3	3		4	4		
Part Assessed	ORGTOT	ORGTOT	ORGTOT	ORGTOT	ORGTOT		ORGTOT	ORGTOT		
Assessment Data Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		CONTRO	CONTRO		
Assessment Unit	%	%	%	%	%		%	%		
Assessment Type, Sub-Type	NOR RAW		NOR RAW	NOR RAW						
Number of Subsamples	1	1	1	1	1		1	1		
ARM Action Codes										
Days After Planting	51DAP-1	51DAP-1	51DAP-1	51DAP-1	51DAP-1		76DAP-1	76DAP-1		
Days After Last Application	16	16	16	16	16		41	41		
No. Decimals Reported										
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Plot	8	9	10	11	12	13	14
1 CHECK UNTREATED			101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			205	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			302	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			406	0.0	0.0	0.0	0.0	0.0	0.0	98.0
			Mean =	0.0	0.0	0.0	0.0	0.0	0.0	24.5
2 AMMONIUM SULFATE SG	1.0 %w/v		102	100.0	98.0	100.0	100.0	95.0	99.0	98.0
A15189	2460.0 gal/ha		207	100.0	96.0	100.0	100.0	95.0	95.0	95.0
NIS	0.25 %v/v		301	99.0	87.0	100.0	100.0	98.0	98.0	90.0
			404	96.0	92.0	100.0	97.0	98.0	90.0	100.0*
			Mean =	98.8	93.3	100.0	99.3	96.5	95.5	95.8
3 AMMONIUM SULFATE SG	1.0 %w/v		103	98.0	100.0	100.0	100.0	97.0	98.0	99.0
A15189	2460.0 gal/ha		206	99.0	100.0	100.0	100.0	98.0	98.0	98.0
AATREX 4L	560.0 gal/ha		303	100.0	97.0	100.0	100.0	98.0	99.0	95.0
NIS	0.25 %v/v		405	97.0	98.0	100.0	100.0	95.0	94.6*	90.0
			Mean =	98.5	98.8	100.0	100.0	97.0	97.4	95.5
4 LUMAX 3.94 SE	2200.0 gal/ha		104	100.0	97.0	100.0	100.0	100.0	100.0	99.0
AMMONIUM SULFATE SG	1.0 %w/v		201	99.0	98.0	100.0	100.0	99.0	100.0	98.0
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha		305	100.0	98.0	100.0	100.0	100.0	100.0	99.0
			402	100.0	95.0	100.0	100.0	100.0	100.0	98.0
			Mean =	99.8	97.0	100.0	100.0	99.8	100.0	98.5
5 HARNESS XTRA 5.6L	2360.0 gal/ha		105	100.0	95.0	100.0	100.0	98.0	100.0	95.0
AMMONIUM SULFATE SG	1.0 %w/v		204	100.0	95.0	100.0	100.0	99.0	100.0	97.0
ROUNDUP ORIGINAL MAX 4.5 SL	870.0 gae/ha		304	100.0	97.0	100.0	100.0	99.0	100.0	98.0
			403	100.0	93.0	97.0	100.0	100.0	100.0	95.0
			Mean =	100.0	95.0	99.3	100.0	99.0	100.0	96.3

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Assessment Date	Jun/14/2007 12:00 AM	Jun/09/2007 12:00 AM	Jul/09/2007 12:00 AM							
Assessed By	VD+GK	VD+GK	VD+GK	VD+GK	VD+GK	VD+GK	AW+GK+MK	AW+GK+MK		
Crop Code	4 ZEAMX	5 ZEAMX	5 ZEAMX							
Crop Variety	DKC 60-18									
Crop Development	18 39	18 39	18 39	18 39	18 39	18 39				
Pest Code	15 SETFA	14 AMBTR	12 ABUTH	16 CHEAL	13 IPOHE		17 SETFA	18 AMBTR		
Pest Variety	Giant Foxtail	Giant Ragweed	Velvetleaf	Common Lambsquarter	Ivyleaf morningglory		Giant Foxtail	Giant Ragweed		
SE Group No.	3	3	3	3	3		4	4		
Part Assessed	ORGTOT									
Assessment Data Type	CONTRO									
Assessment Unit	%	%	%	%	%	%	%	%		
Assessment Type, Sub-Type	NOR RAW									
Number of Subsamples	1	1	1	1	1	1	1	1		
ARM Action Codes										
Days After Planting	51DAP-1	51DAP-1	51DAP-1	51DAP-1	51DAP-1	51DAP-1	76DAP-1	76DAP-1		
Days After Last Application	16	16	16	16	16	16	41	41		
No. Decimals Reported										
Trt Treatment/Product Name	Product/Al Rate	Product/Al Rate Unit	Plot	8	9	10	11	12	13	14
6 AMMONIUM SULFATE SG	1.0 %w/v	106		85.0	95.0	100.0	85.0	98.0	50.0	50.0
ROUNDUP ORIGINAL MAX 4.5 SL	870.0 gae/ha	202		85.0	90.0	100.0	100.0	90.0	50.0	50.0
		306		97.0	97.0	100.0	97.0	95.0	90.0	90.0
		407		98.0	95.0	98.0	80.0	97.0	50.0	50.0
		Mean =		91.3	94.3	99.5	90.5	95.0	60.0	60.0
7 AMMONIUM SULFATE SG	1.0 %w/v	107		97.0	95.0	100.0	100.0	100.0	98.0	95.0
ROUNDUP ORIGINAL MAX 4.5 SL	870.0 gae/ha	203		93.0	95.0	100.0	100.0	97.0	80.0	80.0
AMMONIUM SULFATE SG	1.0 %w/v	307		97.0	95.0	100.0	100.0	100.0	98.0	98.0
ROUNDUP ORIGINAL MAX 4.5 SL	870.0 gae/ha	401		98.0	95.0	100.0	100.0	99.0	90.0	99.0
		Mean =		96.3	95.0	100.0	100.0	99.0	91.5	93.0

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Assessment Date	Jul/09/2007 12:00 AM	Jul/09/2007 12:00 AM	Jul/09/2007 12:00 AM	Oct/01/2007 12:00 AM	Oct/01/2007 12:00 AM
Assessed By	AW+GK+MK	AW+GK+MK	AW+GK+MK	KW	KW
Crop Code	5 ZEAMX	5 ZEAMX	5 ZEAMX	6 ZEAMX	6 ZEAMX
Crop Variety	DKC 60-18				
Crop Development				99 99	99 99
Pest Code	19 ABUTH	20 CHEAL	21 IPOHE		
Pest Variety	Velvetleaf	Common Lambsquarter	Ivyleaf morningglory		
SE Group No.	4	4	4	4	4
Part Assessed	ORGTOT	ORGTOT	ORGTOT	GRAMAT	GRAMAT
Assessment Data Type	CONTRO	CONTRO	CONTRO	YIELD	YIELD
Assessment Unit	%	%	%	LB	BU
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	NOR RAW	YLD YLR
Number of Subsamples	1	1	1	1	1
ARM Action Codes					TY1
Days After Planting	76DAP-1	76DAP-1	76DAP-1	160DAP-1	160DAP-1
Days After Last Application	41	41	41	125	125
No. Decimals Reported					1

Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Plot	15	16	17	18	19
1 CHECK UNTREATED			101	0.0	0.0	0.0	7.60	44.7
			205	0.0	0.0	0.0	6.30	37.1
			302	0.0	0.0	0.0	7.10	41.8
			406	0.0	0.0	0.0	3.80	22.4
			Mean =		0.0	0.0	0.0	6.20
2 AMMONIUM SULFATE SG A15189 NIS	1.0 %w/v		102	100.0	100.0	98.0	33.80	198.9
	2460.0 gai/ha		207	100.0	100.0	95.0	28.30	166.5
	0.25 %v/v		301	100.0	100.0	98.0	31.60	185.9
			404	100.0	85.0	80.0	32.70	192.4
			Mean =		100.0	96.3	92.8	31.60
3 AMMONIUM SULFATE SG A15189 AATREX 4L NIS	1.0 %w/v		103	100.0	100.0	99.0	30.20	177.7
	2460.0 gai/ha		206	100.0	100.0	98.0	30.50	179.5
	560.0 gai/ha		303	100.0	100.0	98.0	30.80	181.2
	0.25 %v/v		405	100.0	100.0	95.0	38.10	224.2
			Mean =		100.0	100.0	97.5	32.40
4 LUMAX 3.94 SE AMMONIUM SULFATE SG TOUCHDOWN TOTAL 4.17 SL	2200.0 gai/ha		104	100.0	100.0	98.0	32.90	193.6
	1.0 %w/v		201	100.0	100.0	98.0	33.30	195.9
	880.0 gae/ha		305	100.0	100.0	99.0	32.20	189.5
			402	100.0	100.0	98.0	30.60	180.1
			Mean =		100.0	100.0	98.3	32.25
5 HARNESS XTRA 5.6L AMMONIUM SULFATE SG ROUNDUP ORIGINAL MAX 4.5 SL	2360.0 gai/ha		105	100.0	100.0	95.0	31.90	187.7
	1.0 %w/v		204	100.0	100.0	90.0	33.70	198.3
	870.0 gae/ha		304	100.0	100.0	99.0	36.30	213.6
			403	100.0	100.0	100.0	38.30	225.4
			Mean =		100.0	100.0	96.0	35.05

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Assessment Date	Jul/09/2007 12:00 AM	Jul/09/2007 12:00 AM	Jul/09/2007 12:00 AM	Oct/01/2007 12:00 AM	Oct/01/2007 12:00 AM
Assessed By	AW+GK+MK	AW+GK+MK	AW+GK+MK	KW	KW
Crop Code	5 ZEAMX	5 ZEAMX	5 ZEAMX	6 ZEAMX	6 ZEAMX
Crop Variety	DKC 60-18				
Crop Development				99 99	99 99
Pest Code	19 ABUTH	20 CHEAL	21 IPOHE		
Pest Variety	Velvetleaf	Common Lambsquarter	Ivyleaf morningglory		
SE Group No.	4	4	4	4	4
Part Assessed	ORGTOT	ORGTOT	ORGTOT	GRAMAT	GRAMAT
Assessment Data Type	CONTRO	CONTRO	CONTRO	YIELD	YIELD
Assessment Unit	%	%	%	LB	BU
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	NOR RAW	YLD YLR
Number of Subsamples	1	1	1	1	1
ARM Action Codes					TY1
Days After Planting	76DAP-1	76DAP-1	76DAP-1	160DAP-1	160DAP-1
Days After Last Application	41	41	41	125	125
No. Decimals Reported					1

Trt	Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Plot	15	16	17	18	19
6	AMMONIUM SULFATE SG	1.0	%w/v	106	80.0	75.0	90.0	27.60	162.4
	ROUNDUP ORIGINAL MAX 4.5 SL	870.0	gae/ha	202	100.0	100.0	75.0	26.50	155.9
				306	99.0	98.0	90.0	35.20	207.1
				407	100.0	30.0	90.0	26.80	157.7
		Mean =				94.8	75.8	86.3	29.03
7	AMMONIUM SULFATE SG	1.0	%w/v	107	100.0	98.0	98.0	26.30	154.8
	ROUNDUP ORIGINAL MAX 4.5 SL	870.0	gae/ha	203	100.0	100.0	90.0	44.20	260.1
	AMMONIUM SULFATE SG	1.0	%w/v	307	100.0	99.0	100.0	38.20	224.8
	ROUNDUP ORIGINAL MAX 4.5 SL	870.0	gae/ha	401	100.0	95.0	95.0	45.20	266.0
		Mean =				100.0	98.0	95.8	38.48

ARM Action Codes

TY1 = 5.884098*[18]

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Country: UNITED STATES OF AMERICA Region: Trial Use: Normal
 Discipline: HERBICIDE Sequence: Year: 2007
 Trial Id.: US_0H_2007 Protocol Id.: HMS005A4-2007US Revision Date: FEB14
 Master Protocol Id.:

Trial Origin: COOPERATOR TRIAL Licensee: Dr. William G. Johnson GEP: N

 Title: Weed Control and Corn Yield with A15189 at Universities

Assessment Date	May/25/2007 12:00 AM	May/31/2007 12:00 AM	May/31/2007 12:00 AM	May/31/2007 12:00 AM	May/31/2007 12:00 AM	May/31/2007 12:00 AM	May/31/2007 12:00 AM		
Assessed By	AW+BN	MK+KW+VM	MK+KW+VM	MK+KW+VM	MK+KW+VM	MK+KW+VM	MK+KW+VM		
Crop Code	2 ZEAMX	3 ZEAMX	3 ZEAMX	3 ZEAMX	3 ZEAMX	3 ZEAMX	3 ZEAMX		
Crop Variety	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18		
Crop Development	14 14	16 17	16 17	16 17	16 17	16 17	16 17		
Pest Code			7 SETFA	8 AMBTR	11 ABUTH	9 CHEAL	10 IPOHE		
Pest Variety			Giant Foxtail	Giant Ragweed	Velvetleaf	Common Lambsquarter	Ivyleaf morningglory		
SE Group No.	1	2	2	2	2	2	2		
Part Assessed	PLADAM	PLADAM	ORGTOT	ORGTOT	ORGTOT	ORGTOT	ORGTOT		
Assessment Data Type	PHYGEN	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Assessment Unit	%	%	%	%	%	%	%		
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW		
Number of Subsamples	1	1	1	1	1	1	1		
ARM Action Codes									
Days After Planting	31DAP-1	37DAP-1	37DAP-1	37DAP-1	37DAP-1	37DAP-1	37DAP-1		
Days After Last Application	4	2	2	2	2	2	2		
No. Decimals Reported									
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	1	2	3	4	5	6	7
1 CHECK UNTREATED			2.5 a	0.0 a	0.0 c	0.0 b	0.0 c	0.0 b	0.0 b
2 AMMONIUM SULFATE SG A15189 NIS	1.0 %w/v 2460.0 gai/ha 0.25 %v/v		1.3 a	0.0 a	98.0 a	90.5 a	100.0 a	100.0 a	79.5 a
3 AMMONIUM SULFATE SG A15189 AATREX 4L NIS	1.0 %w/v 2460.0 gai/ha 560.0 gai/ha 0.25 %v/v		1.3 a	0.0 a	99.0 a	98.3 a	100.0 a	100.0 a	90.3 a
4 LUMAX 3.94 SE AMMONIUM SULFATE SG TOUCHDOWN TOTAL 4.17 SL	2200.0 gai/ha 1.0 %w/v 880.0 gae/ha		2.5 a	0.0 a	75.8 b	19.3 b	75.0 b	88.8 a	82.8 a
5 HARNESS XTRA 5.6L AMMONIUM SULFATE SG ROUNDUP ORIGINAL MAX 4.5 SL	2360.0 gai/ha 1.0 %w/v 870.0 gae/ha		3.8 a	0.0 a	89.5 a	0.0 b	6.3 c	79.7 a	94.1 a
6 AMMONIUM SULFATE SG ROUNDUP ORIGINAL MAX 4.5 SL	1.0 %w/v 870.0 gae/ha		6.3 a	0.0 a	97.0 a	94.3 a	98.0 a	78.5 a	79.8 a

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Assessment Date	May/25/2007 12:00 AM	May/31/2007 12:00 AM							
Assessed By	AW+BN	MK+KW+VM							
Crop Code	2 ZEAMX	3 ZEAMX							
Crop Variety	DKC 60-18								
Crop Development	14 14	16 17	16 17	16 17	16 17	16 17	16 17	16 17	
Pest Code			7 SETFA	8 AMBTR	11 ABUTH	9 CHEAL		10 IPOHE	
Pest Variety			Giant Foxtail	Giant Ragweed	Velvetleaf	Common Lambsquarter		Ivyleaf morningglory	
SE Group No.	1	2	2	2	2	2	2	2	
Part Assessed	PLADAM	PLADAM	ORGTOT	ORGTOT	ORGTOT	ORGTOT	ORGTOT	ORGTOT	
Assessment Data Type	PHYGEN	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	
Assessment Unit	%	%	%	%	%	%	%	%	
Assessment Type, Sub-Type	NOR RAW								
Number of Subsamples	1	1	1	1	1	1	1	1	
ARM Action Codes									
Days After Planting	31DAP-1	37DAP-1							
Days After Last Application	4	2	2	2	2	2	2	2	
No. Decimals Reported									
Trt Treatment/Product Name	Product/Al Rate	Product/Al Rate Unit	1	2	3	4	5	6	7
7 AMMONIUM SULFATE SG	1.0 %w/v		6.3 a	0.0 a	97.8 a	92.5 a	99.5 a	88.8 a	94.5 a
ROUNDUP ORIGINAL MAX 4.5 SL	870.0 gae/ha								
AMMONIUM SULFATE SG	1.0 %w/v								
ROUNDUP ORIGINAL MAX 4.5 SL	870.0 gae/ha								
LSD (P=.05)	5.02	0.00	10.49	22.62	16.88	18.58	17.53		
Standard Deviation	3.38	0.00	7.06	15.23	11.36	12.45	11.63		
CV	99.55	0.0	8.87	27.0	16.62	16.27	15.63		
Bartlett's X2	3.137	0.0	28.853	35.145	24.077	4.026	17.79		
P(Bartlett's X2)	0.792	.	0.001*	0.001*	0.001*	0.259	0.003*		
Replicate F	1.122	0.000	2.080	0.878	1.717	1.089	0.490		
Replicate Prob(F)	0.3665	1.0000	0.1386	0.4710	0.1992	0.3806	0.6943		
Treatment F	1.591	0.000	104.254	38.505	64.144	31.262	33.037		
Treatment Prob(F)	0.2068	1.0000	0.0001	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	Jun/14/2007 12:00 AM	Jun/14/2007 12:00 AM	Jun/14/2007 12:00 AM	Jun/14/2007 12:00 AM	Jun/14/2007 12:00 AM	Jun/14/2007 12:00 AM	Jul/09/2007 12:00 AM	Jul/09/2007 12:00 AM	
Assessed By	VD+GK	VD+GK	VD+GK	VD+GK	VD+GK	VD+GK	AW+GK+MK	AW+GK+MK	
Crop Code	4 ZEAMX	4 ZEAMX	4 ZEAMX	4 ZEAMX	4 ZEAMX	4 ZEAMX	5 ZEAMX	5 ZEAMX	
Crop Variety	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	
Crop Development	18 39	18 39	18 39	18 39	18 39	18 39	17 SETFA	18 AMBTR	
Pest Code	15 SETFA	14 AMBTR	12 ABUTH	16 CHEAL	13 IPOHE	17 SETFA	18 AMBTR	18 AMBTR	
Pest Variety	Giant Foxtail	Giant Ragweed	Velvetleaf	Common Lambsquarter	Ivyleaf morningglory	Giant Foxtail	Giant Ragweed	Giant Ragweed	
SE Group No.	3	3	3	3	3	4	4	4	
Part Assessed	ORGTOT	ORGTOT	ORGTOT	ORGTOT	ORGTOT	ORGTOT	ORGTOT	ORGTOT	
Assessment Data Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	
Assessment Unit	%	%	%	%	%	%	%	%	
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	
Number of Subsamples	1	1	1	1	1	1	1	1	
ARM Action Codes									
Days After Planting	51DAP-1	51DAP-1	51DAP-1	51DAP-1	51DAP-1	51DAP-1	76DAP-1	76DAP-1	
Days After Last Application	16	16	16	16	16	16	41	41	
No. Decimals Reported									
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	8	9	10	11	12	13	14
1 CHECK UNTREATED			0.0 c	0.0 c	0.0 b	0.0 c	0.0 c	0.0 c	24.5 b
2 AMMONIUM SULFATE SG A15189 NIS	1.0 %w/v 2460.0 gai/ha 0.25 %v/v		98.8 a	93.3 b	100.0 a	99.3 a	96.5 ab	95.5 a	95.8 a
3 AMMONIUM SULFATE SG A15189 AATREX 4L NIS	1.0 %w/v 2460.0 gai/ha 560.0 gai/ha 0.25 %v/v		98.5 a	98.8 a	100.0 a	100.0 a	97.0 ab	97.4 a	95.5 a
4 LUMAX 3.94 SE AMMONIUM SULFATE SG TOUCHDOWN TOTAL 4.17 SL	2200.0 gai/ha 1.0 %w/v 880.0 gae/ha		99.8 a	97.0 ab	100.0 a	100.0 a	99.8 a	100.0 a	98.5 a
5 HARNESS XTRA 5.6L AMMONIUM SULFATE SG ROUNDUP ORIGINAL MAX 4.5 SL	2360.0 gai/ha 1.0 %w/v 870.0 gae/ha		100.0 a	95.0 ab	99.3 a	100.0 a	99.0 a	100.0 a	96.3 a
6 AMMONIUM SULFATE SG ROUNDUP ORIGINAL MAX 4.5 SL	1.0 %w/v 870.0 gae/ha		91.3 b	94.3 ab	99.5 a	90.5 b	95.0 b	60.0 b	60.0 a
7 AMMONIUM SULFATE SG ROUNDUP ORIGINAL MAX 4.5 SL AMMONIUM SULFATE SG ROUNDUP ORIGINAL MAX 4.5 SL	1.0 %w/v 870.0 gae/ha 1.0 %w/v 870.0 gae/ha		96.3 a	95.0 ab	100.0 a	100.0 a	99.0 a	91.5 a	93.0 a
LSD (P=.05)			4.45	3.62	0.93	5.32	2.44	12.12	31.77
Standard Deviation			3.00	2.44	0.63	3.58	1.64	8.12	21.29
CV			3.59	2.98	0.73	4.25	1.96	10.45	26.45
Bartlett's X2			18.656	6.942	0.469	6.923	11.434	15.751	48.42
P(Bartlett's X2)			0.001*	0.139	0.493	0.009*	0.043*	0.001*	0.001*
Replicate F			0.981	0.631	2.273	1.273	1.639	1.804	0.766
Replicate Prob(F)			0.4235	0.6046	0.1148	0.3136	0.2156	0.1847	0.5289
Treatment F			608.183	879.713	14485.850	434.397	2028.835	83.219	6.972
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0007

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.

Purdue University

Assessment Date	Jul/09/2007 12:00 AM	Jul/09/2007 12:00 AM	Jul/09/2007 12:00 AM	Oct/01/2007 12:00 AM	Oct/01/2007 12:00 AM
Assessed By	AW+GK+MK	AW+GK+MK	AW+GK+MK	KW	KW
Crop Code	5 ZEAMX	5 ZEAMX	5 ZEAMX	6 ZEAMX	6 ZEAMX
Crop Variety	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18
Crop Development				99 99	99 99
Pest Code	19 ABUTH	20 CHEAL	21 IPOHE		
Pest Variety	Velvetleaf	Common Lambsquarter	lvyleaf morningglory		
SE Group No.	4	4	4	4	4
Part Assessed	ORGTOT	ORGTOT	ORGTOT	GRAMAT	GRAMAT
Assessment Data Type	CONTRO	CONTRO	CONTRO	YIELD	YIELD
Assessment Unit	%	%	%	LB	BU
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	NOR RAW	YLD YLR
Number of Subsamples	1	1	1	1	1
ARM Action Codes					TY1
Days After Planting	76DAP-1	76DAP-1	76DAP-1	160DAP-1	160DAP-1
Days After Last Application	41	41	41	125	125
No. Decimals Reported					1
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit			
			15	16	17
					18
					19
1 CHECK UNTREATED			0.0 b	0.0 b	0.0 c
2 AMMONIUM SULFATE SG A15189 NIS	1.0 %w/v 2460.0 gai/ha 0.25 %v/v		100.0 a	96.3 a	92.8 ab
3 AMMONIUM SULFATE SG A15189 AATREX 4L NIS	1.0 %w/v 2460.0 gai/ha 560.0 gai/ha 0.25 %v/v		100.0 a	100.0 a	97.5 a
4 LUMAX 3.94 SE AMMONIUM SULFATE SG TOUCHDOWN TOTAL 4.17 SL	2200.0 gai/ha 1.0 %w/v 880.0 gae/ha		100.0 a	100.0 a	98.3 a
5 HARNESS XTRA 5.6L AMMONIUM SULFATE SG ROUNDUP ORIGINAL MAX 4.5 SL	2360.0 gai/ha 1.0 %w/v 870.0 gae/ha		100.0 a	100.0 a	96.0 a
6 AMMONIUM SULFATE SG ROUNDUP ORIGINAL MAX 4.5 SL	1.0 %w/v 870.0 gae/ha		94.8 a	75.8 a	86.3 b
7 AMMONIUM SULFATE SG ROUNDUP ORIGINAL MAX 4.5 SL AMMONIUM SULFATE SG ROUNDUP ORIGINAL MAX 4.5 SL	1.0 %w/v 870.0 gae/ha 1.0 %w/v 870.0 gae/ha		100.0 a	98.0 a	95.8 a
LSD (P=.05)	5.53	17.89	6.89	6.281	36.96
Standard Deviation	3.72	12.04	4.64	4.228	24.88
CV	4.38	14.79	5.73	14.44	14.44
Bartlett's X2	0.0	15.058	16.921	13.893	13.893
P(Bartlett's X2)	.	0.001*	0.005*	0.031*	0.031*
Replicate F	1.000	1.719	2.062	0.991	0.991
Replicate Prob(F)	0.4155	0.1988	0.1412	0.4192	0.4192
Treatment F	406.641	37.646	239.968	25.159	25.159
Treatment Prob(F)	0.0001	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.

Purdue University

Country: UNITED STATES OF AMERICA Region: Trial Use: Normal
Discipline: HERBICIDE Sequence: Year: 2007
Trial Id.: US__0H__2007 Protocol Id.: HMS005A4-2007US Revision Date: FEB14
Master Protocol Id.:

Trial Origin: COOPERATOR TRIAL Licensee: Dr. William G. Johnson GEP: N

Title: Weed Control and Corn Yield with A15189 at Universities

ARM Action Codes
TY1 = 5.884098*[18]