

Purdue University

Country: UNITED STATES OF AMERICA Region: NJ Trial Use: Normal
 Discipline: HERBICIDE Sequence: 002 Year: 2008
 Trial Id.: USNJ0H0022008 Protocol Id.: HMS002A4-2008US Revision Date: FEB11
 Master Protocol Id.:

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

Title: Halex GT University Weed Control & Yield in glyphosate tolerant corn - 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: 20

Site Description Event Date: 4/23/2008 Study Design: RACOBL
 Trial Location: Romney Field Site Farm/Station Name: Romney
 County: Tippecanoe Farm Manager: Roger Verhey
 State/Province: IN Street: 9012 S Co Rd 200 W
 Postal Code: 47981 City+State/Prov: Romney, IN
 Postal Code: 47981
 Country: UNITED STATES OF AMERICA

Distance to

Weather

Station:

2.5 Unit: MI

Soil Texture:

SILTY CLAY

LOAM

Closest

Weather

Station: On

TPAC

research far

Soil

Drainage:

GOOD

Tillage

Type: NO-TILL

SITE USAGE

Site Type

FIELD

GENERAL TRIAL INFORMATION

Initiation Date: 3/12/2008 Protocol Id. : HMS002A4-2008US

Title: Halex GT University Weed Control & Yield in glyphosate tolerant corn - Northern version

Intl./Overall Protocol Owner : Gordon Vail Investigator: Dr. William G. Johns

Local Protocol Responsibility: Brett Miller Title: R&D Scientist

Affiliation: Syngenta

SYPOS Project	SYPOS Task
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P000047-02	T004508-07
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SEED DESCRIPTION

1. Date: 4/23/2008 Area: Trial Crop: ZEA MAYS Var: DKC 60-18

Genetic Type A: GLYPHOSATE-R

Comment: YGPL

CROP OCCURRENCE

	1.
Date:	4/23/2008
Area:	Trial
Crop:	CORN
Crop Code:	ZEAMX
BBCH Scale:	BCOR
Variety:	DKC 60-18
Seed Description:	1
Planting Date:	4/23/2008

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PL. TYPE:	PLANTING OF SEEDS
Planting Depth Min, Max, Unit:	2.0 2.0 IN
Row Spacing, Unit:	30.0 IN
Planting Rate, Unit:	32000.0 S/A
Method:	DIRECT DRILLED

PEST OCCURRENCE

	1.	2.	3.	4.	5.
Date:	4/23/2008	4/23/2008	4/23/2008	4/23/2008	6/9/2008
Area:	Trial	Trial	Trial	Trial	Trial
Pest:	AMBROSIA TRIFIDA	SETARIA FABERI	CHENOPODIUM ALBUM	ABUTILON THEOPHRASTI	COMMON WATERHEMP
Pest Code:	AMBTR	SETFA	CHEAL	ABUTH	AMATA
Stage Scale:	BBCH	BGRM	BBCH	BBCH	BDWE
OCCURRENCE TYPE:	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

CROP DEVELOPMENT

	1.	2.	3.	4.	5.	6.	7.	8.
Date:	4/23/2008	5/22/2008	6/9/2008	6/11/2008	6/5/2008	6/16/2008	7/16/2008	10/31/2008
Crop:	1 CORN	1 CORN	1 CORN	1 CORN	1 CORN	1 CORN	1 CORN	1 CORN
Crop Code:	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale:	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
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
Dev. Stage Min, Max:	00 00	31 32	35 36	36 37	15 15	17 18	51 51	99 99
Height Min, Max, Unit:		3.0 5.0 IN	12.0 18.0 IN	10.0 24.0 IN	8.0 12.0 IN	28.0 32.0 IN	104.0 112.0 IN	
Tree/Crop Row Volume Information								
Height Total (m):		0.1	0.38	0.43	0.25	0.76	2.74	

PEST DEVELOPMENT

	1.	2.	3.	4.	5.
Date:	4/23/2008	4/23/2008	4/23/2008	4/23/2008	5/22/2008
Pest:	1 AMBROSIA TRIFIDA	2 SETARIA FABERI	3 CHENOPODIUM ALBUM	4 ABUTILON THEOPHRASTI	1 AMBROSIA TRIFIDA
Pest Code:	AMBTR	SETFA	CHEAL	ABUTH	AMBTR
Stage Scale:	BBCH	BGRM	BBCH	BBCH	BBCH
Dev. Stage Min, Max:	10 14	10 10	10 10	10 10	10 13
Density Min, Max:	4.0 10.0	0.0 2.0	0.0 1.0	0.0 1.0	5.0 20.0
Unit:	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE FOOT
Height Min, Max, Unit:	0.0 2.0 IN	0.0 0.5 IN	0.0 0.75 IN	0.0 0.5 IN	1.0 18.0 IN

	6.	7.	8.	9.	10.	11.
Date:	5/22/2008	6/9/2008	6/9/2008	6/9/2008	6/11/2008	6/11/2008
Pest:	2 SETARIA FABERI	1 AMBROSIA TRIFIDA	2 SETARIA FABERI	5 COMMON WATERHEMP	1 AMBROSIA TRIFIDA	2 SETARIA FABERI
Pest Code:	SETFA	AMBTR	SETFA	AMATA	AMBTR	SETFA
Stage Scale:	BGRM	BBCH	BGRM	BDWE	BBCH	BGRM
Dev. Stage Min, Max:	11 12	11 18	10 13	34 39	10 15	11 14
Density Min, Max:	1.0 40.0	50.0 100.0	30.0 100.0	5.0 15.0	30.0 50.0	10.0 100.0
Unit:	PER SQUARE FOOT	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	1.0 3.0 IN	0.0 42.0 IN	1.0 8.0 IN	1.0 9.0 IN	2.0 48.0 IN	0.0 8.0 IN

	12.	13.	14.	15.	16.
Date:	6/11/2008	6/16/2008	6/16/2008	7/16/2008	7/16/2008
Pest:	5 COMMON WATERHEMP	1 AMBROSIA TRIFIDA	2 SETARIA FABERI	1 AMBROSIA TRIFIDA	2 SETARIA FABERI
Pest Code:	AMATA	AMBTR	SETFA	AMBTR	SETFA
Stage Scale:	BDWE	BBCH	BGRM	BBCH	BGRM
Dev. Stage Min, Max:	10 39	10 15	11 14	11 16	12 22
Density Min, Max:	10.0 100.0	10.0 50.0	50.0 500.0	30.0 50.0	10.0 100.0
Unit:	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD
Height Min, Max, Unit:	0.0 10.0 IN	2.0 48.0 IN	6.0 20.0 IN	50.0 120.0 IN	36.0 60.0 IN

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WEATHER DESCRIPTION

1. Date: 4/23/2008 Air Temp. Min: 82.0 Max: 82.0 Unit: F % Rel. Humidity Min: 50.0 Max: 50.0
 Wind Velocity Min: 4.0 Max: 6.0 Unit: MPH Wind Direction: NE
 Sky Condition: 70%
2. Date: 5/22/2008 Air Temp. Min: 51.0 Max: 51.0 Unit: F % Rel. Humidity Min: 100.0 Max: 100.0
 Wind Velocity Min: 0.0 Max: 2.0 Unit: MPH Wind Direction: NW
 Sky Condition: 10%
3. Date: 6/9/2008 Air Temp. Min: 73.0 Max: 73.0 Unit: F % Rel. Humidity Min: 100.0 Max: 100.0
 Wind Velocity Min: 0.0 Max: 2.0 Unit: MPH Wind Direction: W
 Sky Condition: 90%
4. Date: 6/11/2008 Air Temp. Min: 70.0 Max: 70.0 Unit: F % Rel. Humidity Min: 85.0 Max: 85.0
 Wind Velocity Min: 0.0 Max: 1.0 Unit: MPH Wind Direction: S
 Sky Condition: 5%

No.	Date	Soil Temp.	Unit	Soil Moisture Condition
1.	4/23/2008	65.0	F	DRY
2.	5/22/2008	65.0	F	DRY
3.	6/9/2008	72.0	F	MOIST
4.	6/11/2008	67.0	F	MOIST

APPLICATION

		B	C	D
Application Date/Time:	4/23/2008 2:30 PM	5/22/2008 12:28 PM	6/9/2008 6:28 AM	6/11/2008 6:56 AM
Applied By:	VM GK MK	PM MK	PM MK	PM GK MK
Target (Crop):	1 ZEAMX	2 ZEAMX	3 ZEAMX	4 ZEAMX
Variety (Crop):	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18
Development (Crop):	00 00	31 32	35 36	36 37
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	N	N
Application Method:	NONINC	NONINC	NONINC	NONINC
Application Timing:	PREPRE	EAPOCR	POSPOS	POSPOS
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL

No.	Date	Area	Laboratory Name	pH/KCL	pH/H2O	CEC	Soil Texture
1.	4/23/2008	Trial	The Farm Clinic, Inc.		6.7		10.6 SILTY CLAY LOAM
			Comment: Drummer Toronto; P=76 lb/a; K=343 lb/a				

Soil Component: **% Organic Matter: 2.8**
Soil Element: GAE

No.	Date	Area	TYPE	Rate	Unit
1.	6/9/2008	Trial	FERTILIZATION	50.0	GPA

Maint. No.	INGREDIENT TYPE	PRODUCT NAME [DSP]	Form Type	Form Conc	Form Unit
1	@CO	UAN 28%	XX	28.0	%AEW/W

Code **Comment**
 1.

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

Title: Halex GT University Weed Control & Yield in glyphosate tolerant corn - Northern version

Assessment Date	5/22/2008 12:00 AM	5/22/2008 12:00 AM	6/5/2008 12:00 AM	6/16/2008 12:00 AM	6/16/2008 12:00 AM			
Assessed By	GK	GK	VM CB	GK AR	GK AR			
Crop Code	2 ZEAMX	2 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	31 32	31 32	15 15	17 18	17 18			
Pest Code	5 AMBTR	6 SETFA			13 AMBTR			
Pest Development	10 13	11 12			10 15			
SE Group No.	1	1	2	3	3			
Part Assessed	PLOT	PLOT	PLOT	PLOT	PLOT			
Assessment Data Type	CONTRO	CONTRO	PHYGEN	PHYGEN	CONTRO			
Assessment Unit	%	%	%	%	%			
Reporting Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT			
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW			
Number of Subsamples	1	1	1	1	1			
ARM Action Codes								
Days After Planting	29DAP-1	29DAP-1	43DAP-1	54DAP-1	54DAP-1			
Days Application to Assessment	0 DA-B							
Days After Last Application	29	29	14	5	5			
Weather Description	2	2						
No. Decimals Reported								
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	1	2	3	4	5
1 Untreated				0.0 f	0.0 b	0.0 a	5.0 bc	0.0 d
2 AMMONIUM SULFATE SG	1.0 %w/v	B				4.8 a	5.0 bc	88.0 ab
HALEX GT 4.38 CS	2205.0 gai/ha	B						
NIS	0.25 %v/v	B						
3 AMMONIUM SULFATE SG	1.0 %w/v	B				3.8 a	4.5 bc	88.0 ab
HALEX GT 4.38 CS	2205.0 gai/ha	B						
AATREX 4L	560.0 gai/ha	B						
NIS	0.25 %v/v	B						
4 LEXAR 3.7 SL	2340.0 gai/ha	A		96.8 ab	97.4 a	0.0 a	2.5 c	94.3 ab
AMMONIUM SULFATE SG	1.0 %w/v	C						
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	C						
5 LEXAR 3.7 SL	1820.0 gai/ha	A		90.5 a-d	94.7 a	0.0 a	1.0 c	97.3 a
AMMONIUM SULFATE SG	1.0 %w/v	C						
HALEX GT 4.38 CS	2205.0 gai/ha	C						
NIS	0.25 %v/v	C						
6 BICEP II MAGNUM 5.5 SC	2000.0 gai/ha	A		76.8 d	97.1 a	0.0 a	16.8 abc	89.8 ab
AMMONIUM SULFATE SG	1.0 %w/v	C						
HALEX GT 4.38 CS	2205.0 gai/ha	C						
NIS	0.25 %v/v	C						
7 AATREX 4L	1120.0 gai/ha	A		65.2 e	92.4 a	0.0 a	12.5 abc	81.3 ab
AMMONIUM SULFATE SG	1.0 %w/v	C						
HALEX GT 4.38 CS	2205.0 gai/ha	C						
NIS	0.25 %v/v	C						
8 HARNESS XTRA 5.6L	2360.0 gai/ha	A		81.9 cd	97.8 a	0.0 a	8.8 bc	93.8 ab
AMMONIUM SULFATE SG	1.0 %w/v	C						
ROUNDUP POWERMAX 540 SL	870.0 gae/ha	C						
9 AMMONIUM SULFATE SG	1.0 %w/v	B				8.0 a	23.8 ab	53.8 c
ROUNDUP POWERMAX 540 SL	870.0 gae/ha	B						
10 AMMONIUM SULFATE SG	1.0 %w/v	B				6.8 a	12.3 abc	82.5 ab
ROUNDUP POWERMAX 540 SL	870.0 gae/ha	B						
AMMONIUM SULFATE SG	1.0 %w/v	D						
ROUNDUP POWERMAX 540 SL	870.0 gae/ha	D						

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Assessment Date				6/16/2008 12:00 AM	7/16/2008 12:00 AM	7/16/2008 12:00 AM	10/31/2008 10:30 AM	10/31/2008 10:29 AM	
Assessed By				GK AR	VM AR	VM AR	PM	PM	
Crop Code				6 ZEAMX	7 ZEAMX	7 ZEAMX	8 ZEAMX	8 ZEAMX	
Crop Variety				DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	
Crop Development				17 18	51 51	51 51	99 99	99 99	
Pest Code				14 SETFA	15 AMBTR	16 SETFA			
Pest Development				11 14	11 16	12 22			
SE Group No.				3	4	4	5	5	
Part Assessed				PLOT	PLOT	PLOT	PLOT	PLOT	
Assessment Data Type				CONTRO	CONTRO	CONTRO	YIELD	YIELD	
Assessment Unit				%	%	%	LB	BU	
Reporting Basis, Unit				1.0 PLOT	1.0 PLOT	1.0 PLOT			
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				54DAP-1	84DAP-1	84DAP-1	191DAP-1	191DAP-1	
Days Application to Assessment									
Days After Last Application				5	35	35	142	142	
Weather Description									
No. Decimals Reported								1	
Trt	Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	6	7	8	9	10
1	Untreated				0.0 c	0.0 f	0.0 c	1.03 e	6.4 e
2	AMMONIUM SULFATE SG HALEX GT 4.38 CS NIS	1.0 2205.0 0.25	%w/v gai/ha %v/v	B B B	98.5 a	77.0 ab	95.5 ab	33.40 ab	208.6 ab
3	AMMONIUM SULFATE SG HALEX GT 4.38 CS AATREX 4L NIS	1.0 2205.0 560.0 0.25	%w/v gai/ha gai/ha %v/v	B B B B	98.5 a	68.5 abc	90.5 ab	32.63 ab	203.7 ab
4	LEXAR 3.7 SL AMMONIUM SULFATE SG TOUCHDOWN TOTAL 4.17 SL	2340.0 1.0 880.0	gai/ha %w/v gae/ha	A C C	100.0 a	87.3 ab	96.8 a	37.60 a	234.8 a
5	LEXAR 3.7 SL AMMONIUM SULFATE SG HALEX GT 4.38 CS NIS	1820.0 1.0 2205.0 0.25	gai/ha %w/v gai/ha %v/v	A C C C	100.0 a	96.0 a	98.8 a	41.08 a	256.5 a
6	BICEP II MAGNUM 5.5 SC AMMONIUM SULFATE SG HALEX GT 4.38 CS NIS	2000.0 1.0 2205.0 0.25	gai/ha %w/v gai/ha %v/v	A C C C	100.0 a	91.0 ab	96.8 a	35.03 ab	218.7 ab
7	AATREX 4L AMMONIUM SULFATE SG HALEX GT 4.38 CS NIS	1120.0 1.0 2205.0 0.25	gai/ha %w/v gai/ha %v/v	A C C C	99.8 a	88.3 ab	98.3 a	35.10 ab	219.2 ab
8	HARNESS XTRA 5.6L AMMONIUM SULFATE SG ROUNDUP POWERMAX 540 SL	2360.0 1.0 870.0	gai/ha %w/v gae/ha	A C C	99.8 a	88.0 ab	94.5 ab	34.85 ab	217.6 ab
9	AMMONIUM SULFATE SG ROUNDUP POWERMAX 540 SL	1.0 870.0	%w/v gae/ha	B B	80.0 b	23.3 ef	85.8 ab	6.73 e	42.0 e
10	AMMONIUM SULFATE SG ROUNDUP POWERMAX 540 SL AMMONIUM SULFATE SG ROUNDUP POWERMAX 540 SL	1.0 870.0 1.0 870.0	%w/v gae/ha %w/v gae/ha	B B D D	99.8 a	90.5 ab	92.5 ab	37.50 a	234.2 a

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Assessment Date	5/22/2008 12:00 AM	5/22/2008 12:00 AM	6/5/2008 12:00 AM	6/16/2008 12:00 AM	6/16/2008 12:00 AM			
Assessed By	GK	GK	VM CB	GK AR	GK AR			
Crop Code	2 ZEAMX	2 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	31 32	31 32	15 15	17 18	17 18			
Pest Code	5 AMBTR	6 SETFA			13 AMBTR			
Pest Development	10 13	11 12			10 15			
SE Group No.	1	1	2	3	3			
Part Assessed	PLOT	PLOT	PLOT	PLOT	PLOT			
Assessment Data Type	CONTRO	CONTRO	PHYGEN	PHYGEN	CONTRO			
Assessment Unit	%	%	%	%	%			
Reporting Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT			
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW			
Number of Subsamples	1	1	1	1	1			
ARM Action Codes								
Days After Planting	29DAP-1	29DAP-1	43DAP-1	54DAP-1	54DAP-1			
Days Application to Assessment	0 DA-B							
Days After Last Application	29	29	14	5	5			
Weather Description	2	2						
No. Decimals Reported								
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	1	2	3	4	5
11 AMMONIUM SULFATE SG	1.0 %w/v	B			1.3 a	6.3 bc	84.5 ab	
LAUDIS 3.5 SC	92.0 gai/ha	B						
ROUNDUP POWERMAX 540 SL	870.0 gae/ha	B						
12 AMMONIUM SULFATE SG	1.0 %w/v	B			4.3 a	14.5 abc	80.0 ab	
SURESTART	1040.0 gai/ha	B						
DURANGO DMA 4 SL	840.0 gae/ha	B						
13 AMMONIUM SULFATE SG	1.0 %w/v	B			4.8 a	25.0 ab	70.8 bc	
STATUS 56 WG	98.0 gai/ha	B						
ROUNDUP POWERMAX 540 SL	870.0 gae/ha	B						
14 AMMONIUM SULFATE SG	1.0 %w/v	B			5.0 a	7.5 bc	72.5 abc	
IMPACT 2.8 SC	18.3 gai/ha	B						
ROUNDUP POWERMAX 540 SL	870.0 gae/ha	B						
15 LEXAR 3.7 SE	1560.0 gai/ha	A	95.3 abc	96.3 a	1.3 a	0.0 c	88.8 ab	
LEXAR 3.7 SE	1560.0 gai/ha	B						
16 LEXAR 3.7 SE	3100.0 gai/ha	A	98.3 a	99.5 a	1.5 a	2.0 c	80.0 ab	
17 AMMONIUM SULFATE SG	1.0 %w/v	C			3.0 a	30.0 a	72.5 abc	
ROUNDUP POWERMAX 540 SL	1260.0 gae/ha	C						
18 SURESTART	1040.0 gai/ha	A	83.3 bcd	90.5 a	2.3 a	7.5 bc	88.0 ab	
AMMONIUM SULFATE SG	1.0 %w/v	C						
DURANGO DMA 4 SL	840.0 gae/ha	C						
19 Untreated			0.0 f	0.0 b	0.0 a	0.0 c	0.0 d	
20 Untreated			0.0 f	0.0 b	0.0 a	0.0 c	0.0 d	
LSD (P=.05)			10.21	7.27	5.56	12.05	14.29	
Standard Deviation			7.01	4.99	3.93	8.52	10.11	
CV			11.21	7.17	169.13	92.22	14.38	
Bartlett's X2			30.419	32.503	20.046	29.025	31.646	
P(Bartlett's X2)			0.001*	0.001*	0.029*	0.024*	0.011*	
Replicate F			0.769	6.604	1.769	2.047	1.104	
Replicate Prob(F)			0.5223	0.0019	0.1641	0.1175	0.3550	
Treatment F			138.672	321.897	1.677	4.321	39.722	
Treatment Prob(F)			0.0001	0.0001	0.0706	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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Assessed By	GK AR	VM AR	VM AR	PM	PM			
Crop Code	6 ZEAMX	7 ZEAMX	7 ZEAMX	8 ZEAMX	8 ZEAMX			
Crop Variety	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18			
Crop Development	17 18	51 51	51 51	99 99	99 99			
Pest Code	14 SETFA	15 AMBTR	16 SETFA					
Pest Development	11 14	11 16	12 22					
SE Group No.	3	4	4	5	5			
Part Assessed	PLOT	PLOT	PLOT	PLOT	PLOT			
Assessment Data Type	CONTRO	CONTRO	CONTRO	YIELD	YIELD			
Assessment Unit	%	%	%	LB	BU			
Reporting Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT					
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	54DAP-1	84DAP-1	84DAP-1	191DAP-1	191DAP-1			
Days Application to Assessment								
Days After Last Application	5	35	35	142	142			
Weather Description								
No. Decimals Reported					1			
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	6	7	8	9	10
11 AMMONIUM SULFATE SG	1.0 %w/v	B		95.5 a	79.0 ab	78.3 ab	34.95 ab	218.3 ab
LAUDIS 3.5 SC	92.0 gai/ha	B						
ROUNDUP POWERMAX 540 SL	870.0 gae/ha	B						
12 AMMONIUM SULFATE SG	1.0 %w/v	B		98.8 a	58.3 bcd	94.8 ab	33.91 ab	211.8 ab
SURESTART	1040.0 gai/ha	B						
DURANGO DMA 4 SL	840.0 gae/ha	B						
13 AMMONIUM SULFATE SG	1.0 %w/v	B		95.8 a	32.0 de	89.0 ab	15.05 d	94.0 d
STATUS 56 WG	98.0 gai/ha	B						
ROUNDUP POWERMAX 540 SL	870.0 gae/ha	B						
14 AMMONIUM SULFATE SG	1.0 %w/v	B		88.3 a	38.3 de	71.5 b	25.80 bc	161.1 bc
IMPACT 2.8 SC	18.3 gai/ha	B						
ROUNDUP POWERMAX 540 SL	870.0 gae/ha	B						
15 LEXAR 3.7 SE	1560.0 gai/ha	A		98.0 a	83.0 ab	95.3 ab	38.63 a	241.2 a
LEXAR 3.7 SE	1560.0 gai/ha	B						
16 LEXAR 3.7 SE	3100.0 gai/ha	A		97.3 a	50.5 cd	88.8 ab	33.20 ab	207.3 ab
17 AMMONIUM SULFATE SG	1.0 %w/v	C		98.3 a	87.5 ab	89.5 ab	22.65 c	141.4 c
ROUNDUP POWERMAX 540 SL	1260.0 gae/ha	C						
18 SURESTART	1040.0 gai/ha	A		99.8 a	87.8 ab	93.8 ab	37.65 a	235.1 a
AMMONIUM SULFATE SG	1.0 %w/v	C						
DURANGO DMA 4 SL	840.0 gae/ha	C						
19 Untreated				0.0 c	0.0 f	0.0 c	1.30 e	8.1 e
20 Untreated				0.0 c	0.0 f	0.0 c	1.28 e	8.0 e
LSD (P=.05)				8.04	19.84	13.88	6.383	39.86
Standard Deviation				5.69	14.03	9.81	4.514	28.19
CV				6.9	22.88	12.66	16.74	16.74
Bartlett's X2				92.025	37.705	64.456	38.414	38.415
P(Bartlett's X2)				0.001*	0.002*	0.001*	0.005*	0.005*
Replicate F				2.980	1.665	5.776	1.790	1.790
Replicate Prob(F)				0.0388	0.1848	0.0016	0.1598	0.1597
Treatment F				158.853	23.278	48.183	37.757	37.758
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001

Purdue University

Country: UNITED STATES OF AMERICA Region: NJ Trial Use: Normal
 Discipline: HERBICIDE Sequence: 002 Year: 2008
 Trial Id.: USNJ0H0022008 Protocol Id.: HMS002A4-2008US Revision Date: FEB11
 Master Protocol Id.:

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

Title: Halex GT University Weed Control & Yield in glyphosate tolerant corn - Northern version

T192, T157, 2, ZEAMX, DKC 60-18, 31, 32 = 1
 T394, T157, 5, ZEAMX, DKC 60-18, 15, 15 = 1
 T415, T157, 6, ZEAMX, DKC 60-18, 17, 18 = 1
 T436, T157, 7, ZEAMX, DKC 60-18, 51, 51 = 1
 T460, T157, 8, ZEAMX, DKC 60-18, 99, 99 = 1

T195, T161, 5, AMBTR, , 10, 13 = 1
 T196, T163, 6, SETFA, , 11, 12 = 2
 T388, T161, 13, AMBTR, , 10, 15 = 1
 T389, T163, 14, SETFA, , 11, 14 = 2
 T390, T161, 15, AMBTR, , 11, 16 = 1
 T392, T163, 16, SETFA, , 12, 22 = 2

25908, PLOT = PLOT

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

1221, % = PERCENT
 1230, LB = POUND

9719, PLOT = PLOT

Assessment Type, Sub-Type

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

ARM Action Codes

TY1 = 6.24495*9

Days After Planting

29DAP-1 = 1 4/23/2008
 43DAP-1 = 1 4/23/2008
 54DAP-1 = 1 4/23/2008
 84DAP-1 = 1 4/23/2008
 191DAP-1 = 1 4/23/2008

T178, 2 = 5/22/2008