

# Purdue University

Country: UNITED STATES OF AMERICA      Region: Trial Use: Normal  
 Discipline: HERBICIDE      Sequence:      Year: 2006  
 Trial Id.: US\_0H\_2006      Protocol Id.: HMS002A4-2006US      Revision Date: Apr 13  
 Master Protocol Id.:

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

Title: Evaluate LUMAX and Lexar in Glyphosate Tolerant Corn systems with COI.

**SITE AND DESIGN**  
 Plot Width: 10      Unit: FT      Plot Length: 30      Unit: FT      Plot Area: 300.0      Unit: FT<sup>2</sup>      No Reps: 4      No Treats: 15

Site Description Event Date: 18/Apr/2006      Study Design: RACOB  
 Trial Location: Wanatah      Farm/Station Name: PPAC  
 County: LaPorte      Farm Manager: Jon Leuck  
 State/Province: IN      Street: 11402 South Co. Line  
 Postal Code: 46390      City/State/Prov: Wanatah, IN  
 Cooperator Name: Pinney Purdue Agriculture Center      Postal Code: 46390  
 Coop. Trial ID: 06S-PIP-CTC-05      Country: UNITED STATES OF AMERICA  
 Phone Number: 219-733-2379

Fertility Level: GOOD      Distance to Weather Station: 0.5      Unit: MI  
 Soil Texture: SANDY LOAM      Closest Weather Station: Located on the farm  
 Soil Drainage: GOOD  
 Tillage Type: CONVENTIONAL-TILL

**SITE USAGE**

No.	Site Type
1.	

  

No.	Trial Number	COUNTRY	REGION	USE	DISCIPLINE	SEQUENCE	YEAR
1.							

  

No.	Date or	Month	Year	TYPE	Rate	Unit
1.						

  

No.	Previous Maint. No.	Previous Product [DSP]	Form Type	Form Conc	Unit	Form Variety	Rate	Unit
1.								

  

No.	Date or	Month	Year	Previous Crop/Pest	Previous Crop/Pest Variety	Cultural Condition
1.				GLYCINE MAX		

**GENERAL TRIAL INFORMATION**

Initiation Date: 18/Apr/2006      Protocol Id.: HMS002A4-2006US  
 Title: Evaluate LUMAX and Lexar in Glyphosate Tolerant Corn systems with COI.  
 Local Protocol Responsibility: Brett Miller      Investigator: Dr. William G. Johns  
 Title: Associate Professor  
 Affiliation: Purdue University

No.	SYPOS Project	SYPOS Task
1.		T006973-05

**TRIAL STATUS**

1. Date: 18/Apr/2006      TRIAL STATUS: ESTABLISHED  
 Comment: Generated by ARM

**SEED DESCRIPTION**

1. Date: 9/May/2006      Area: Trial      Crop: ZEA MAYS      Var: DKC60-18RR2-YGPL  
 Comment: Emergence Date: 5-24-06

**CROP OCCURRENCE**

Date:	22/May/2006
1.	
Area:	Trial
Crop:	CORN
Crop Code:	ZEAMX
BBCH Scale:	BCOR
Variety:	DKC60-18RR2-YGPL
Planting Date:	9/May/2006
Planting Depth Min, Max, Unit:	2.0 2.0 IN
Row Spacing, Unit:	30.0 IN
Planting Rate, Unit:	31000.0 S/A
Method:	DIRECT DRILLED

**PEST OCCURRENCE**

	1.	2.	3.	4.	5.
Date:	9/May/2006	9/May/2006	9/May/2006	22/May/2006	22/May/2006
Area:	Trial	Trial	Trial	Trial	Trial
Pest:	AMBROSIA TRIPIDA	STELLARIA MEDIA	SETARIA FABERI	ABUTILON THEOPHRASTI	AMBROSIA TRIPIDA
Pest Code:	AMBTR	STEME	SETFA	ABUTH	AMBTR
Stage Scale:	BBCH	BBCH	BGRM	BBCH	BBCH

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	6.	7.	8.	9.	10.
<b>Date:</b>	22/May/2006	22/May/2006	1/Jun/2006	1/Jun/2006	1/Jun/2006
<b>Area:</b>	Trial	Trial	Trial	Trial	Trial
<b>Pest:</b>	CHENOPIDIUM ALBUM	STELLARIA MEDIA	AMBROSIA TRIFIDA	CHENOPIDIUM ALBUM	ABUTILON THEOPHRASTI
<b>Pest Code:</b>	CHEAL	STEME	AMBTR	CHEAL	ABUTH
<b>Stage Scale:</b>	BBCH	BBCH	BBCH	BBCH	BBCH

  

	11.	12.	13.
<b>Date:</b>	7/Jul/2006	7/Jul/2006	7/Jul/2006
<b>Area:</b>	Trial	Trial	Trial
<b>Pest:</b>	AMBROSIA TRIFIDA	CHENOPIDIUM ALBUM	ABUTILON THEOPHRASTI
<b>Pest Code:</b>	AMBTR	CHEAL	ABUTH
<b>Stage Scale:</b>	BBCH	BBCH	BBCH

**CROP DEVELOPMENT**

	1.	2.	3.	4.
<b>Date:</b>	22/May/2006	1/Jun/2006	13/Jun/2006	23/Jun/2006
<b>Crop:</b>	1 CORN	1 CORN	1 CORN	1 CORN
<b>Crop Code:</b>	ZEAMX	ZEAMX	ZEAMX	ZEAMX
<b>BBCH Scale:</b>	BCOR	BCOR	BCOR	BCOR
<b>Variety:</b>	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL
<b>Dev. Stage Min, Max:</b>	07			
<b>Stand:</b>		V2	V4	V6
<b>Height Min, Max, Unit:</b>		3.0 5.0 IN	6.0 10.0 IN	20.0 IN
<b>Leaves Min, Max, Average:</b>		3.0 5.0 4.0	5.0 7.0 6.0	
-----				
<b>Tree/Crop Row Volume Information</b>				
<b>Height Total (m):</b>		0.1	0.2	

  

	5.	6.	7.	8.
<b>Date:</b>				22/May/2006
<b>Crop:</b>				1 CORN
<b>Crop Code:</b>				ZEAMX
<b>BBCH Scale:</b>				BCOR
<b>Variety:</b>				DKC60-18RR2-YGPL
<b>Dev. Stage Min, Max:</b>				
<b>Stand:</b>				
<b>Height Min, Max, Unit:</b>				
<b>Leaves Min, Max, Average:</b>				
-----				
<b>Tree/Crop Row Volume Information</b>				
<b>Height Total (m):</b>				

  

	9.
<b>Date:</b>	2/Nov/2006
<b>Crop:</b>	1 CORN
<b>Crop Code:</b>	ZEAMX
<b>BBCH Scale:</b>	BCOR
<b>Variety:</b>	DKC60-18RR2-YGPL
<b>Dev. Stage Min, Max:</b>	99 99
<b>Stand:</b>	
<b>Height Min, Max, Unit:</b>	
<b>Leaves Min, Max, Average:</b>	
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<b>Tree/Crop Row Volume Information</b>	
<b>Height Total (m):</b>	

**PEST DEVELOPMENT**

	1.	2.	3.	4.
<b>Date:</b>	9/May/2006	9/May/2006	9/May/2006	22/May/2006
<b>Pest:</b>	1 AMBROSIA TRIFIDA	2 STELLARIA MEDIA	3 SETARIA FABERI	4 ABUTILON THEOPHRASTI
<b>Pest Code:</b>	AMBTR	STEME	SETFA	ABUTH
<b>Stage Scale:</b>	BBCH	BBCH	BGRM	BBCH
<b>Dev. Stage Min, Max:</b>		69 88		10 11
<b>Density Min, Max:</b>	10.0 12.0	0.0 0.25	0.0 0.2	1.0 3.0
<b>Unit:</b>	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD
<b>Height Min, Max, Unit:</b>	0.0 1.0 IN	0.0 4.0 IN	0.0 3.0 IN	0.5 1.0 IN
<b>Leaves Min, Max:</b>	0.0 1.0			

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	5.	6.	7.	8.
<b>Date:</b>	22/May/2006	22/May/2006	22/May/2006	1/Jun/2006
<b>Pest:</b>	5 AMBROSIA TRIFIDA	6 CHENOPODIUM ALBUM	7 STELLARIA MEDIA	8 AMBROSIA TRIFIDA
<b>Pest Code:</b>	AMBTR	CHEAL	STEME	AMBTR
<b>Stage Scale:</b>	BBCH	BBCH	BBCH	BBCH
<b>Dev. Stage Min, Max:</b>	10 14	10 12	69 88	
<b>Density Min, Max:</b>	1.0 24.0	1.0 6.0	0.25	15.0
<b>Unit:</b>	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD
<b>Height Min, Max, Unit:</b>	1.0 2.0 IN	0.5 IN	4.0 6.0 IN	1.0 7.0 IN
<b>Leaves Min, Max:</b>	1.0 6.0	1.0		
	0.13 IN	0.03 IN		
	9.	10.	11.	12.
<b>Date:</b>	1/Jun/2006	1/Jun/2006	13/Jun/2006	13/Jun/2006
<b>Pest:</b>	9 CHENOPODIUM ALBUM	10 ABUTILON THEOPHRASTI	1 AMBROSIA TRIFIDA	9 CHENOPODIUM ALBUM
<b>Pest Code:</b>	CHEAL	ABUTH	AMBTR	CHEAL
<b>Stage Scale:</b>	BBCH	BBCH	BBCH	BBCH
<b>Dev. Stage Min, Max:</b>				
<b>Density Min, Max:</b>	12.0 15.0	8.0 10.0	15.0	12.0 15.0
<b>Unit:</b>	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD
<b>Height Min, Max, Unit:</b>	2.0 IN	1.0 2.5 IN	0.0 14.0 IN	1.0 6.0 IN
<b>Leaves Min, Max:</b>				
	13.	14.	15.	16.
<b>Date:</b>	13/Jun/2006	23/Jun/2006	23/Jun/2006	23/Jun/2006
<b>Pest:</b>	4 ABUTILON THEOPHRASTI	1 AMBROSIA TRIFIDA	6 CHENOPODIUM ALBUM	4 ABUTILON THEOPHRASTI
<b>Pest Code:</b>	ABUTH	AMBTR	CHEAL	ABUTH
<b>Stage Scale:</b>	BBCH	BBCH	BBCH	BBCH
<b>Dev. Stage Min, Max:</b>				
<b>Density Min, Max:</b>	8.0 10.0	0.0 15.0	12.0 15.0	8.0 10.0
<b>Unit:</b>	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD
<b>Height Min, Max, Unit:</b>	0.0 2.0 IN	6.0 30.0 IN	2.0 15.0 IN	4.0 12.0 IN
<b>Leaves Min, Max:</b>				
	17.	18.	19.	
<b>Date:</b>	7/Jul/2006	7/Jul/2006	7/Jul/2006	
<b>Pest:</b>	11 AMBROSIA TRIFIDA	12 CHENOPODIUM ALBUM	13 ABUTILON THEOPHRASTI	
<b>Pest Code:</b>	AMBTR	CHEAL	ABUTH	
<b>Stage Scale:</b>	BBCH	BBCH	BBCH	
<b>Dev. Stage Min, Max:</b>				
<b>Density Min, Max:</b>	0.0 15.0	12.0 15.0	8.0 10.0	
<b>Unit:</b>	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	
<b>Height Min, Max, Unit:</b>	24.0 60.0 IN	12.0 36.0 IN	24.0 48.0 IN	
<b>Leaves Min, Max:</b>				

WEATHER DESCRIPTION				
1. <b>Date:</b> 9/May/2006	<b>Max:</b> 70.0	<b>Unit:</b> F	<b>Max:</b> 47.1	
<b>Wind Velocity Min:</b> 5.0	<b>Max:</b> 10.0	<b>Unit:</b> MPH	<b>Wind Direction:</b> SE	
<b>Sky Condition:</b>	95% cloud cover			
2. <b>Date:</b> 1/Jun/2006	<b>Max:</b> 66.0	<b>Unit:</b> F	<b>Max:</b> 80.0	
<b>Wind Velocity Min:</b> 0.0	<b>Max:</b> 3.0	<b>Unit:</b> MPH	<b>Wind Direction:</b> W	
3. <b>Date:</b> 13/Jun/2006	<b>Max:</b> 65.0	<b>Unit:</b> F	<b>Max:</b> 85.0	
<b>Wind Velocity Min:</b> 3.0	<b>Max:</b> 5.0	<b>Unit:</b> MPH	<b>Wind Direction:</b> NW	
<b>Sky Condition:</b>	0 CLOUD COVER			
4. <b>Date:</b> 23/Jun/2006	<b>Air Temp. Min:</b> 73.0	<b>Unit:</b> F	<b>Max:</b> 80.0	
<b>Wind Velocity Min:</b> 0.0	<b>Max:</b> 2.0	<b>Unit:</b> MPH	<b>Wind Direction:</b> N	
<b>Sky Condition:</b>	90% CLOUD COVER			
5.				
6.				
7.				

No.	Date	Soil Temp.	Unit	Soil Moisture Condition	Comment
1.	9/May/2006	63.0	F	Dry	
2.	1/Jun/2006	68.0	F	Dry on top	
3.	23/Jun/2006	69.0	F	WET	

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## APPLICATION

	A	B	C	D	E	F
Application Date/Time:	9/May/2006 12:00 AM	22/May/2006 12:00 AM	1/Jun/2006 12:00 AM	13/Jun/2006 12:00 AM	13/Jun/2006 12:00 AM	23/Jun/2006 2:30 PM
Applied By:	EC	EC	VD		EC	
Target (Crop):			2 ZEAMX		4 ZEAMX	
Variety (Crop):			DKC60-18RR2-YGPL		DKC60-18RR2-YGPL	
Equipment Name:	Backpack sprayer	Backpack sprayer	Backpack sprayer	Backpack sprayer	Backpack sprayer	Backpack sprayer
Application Equipment:	BACSPR	BACSPR	BACSPR	BACSPR	BACSPR	BACSPR
Pressure, Unit:	15 PSI	15 PSI	15 PSI	15 PSI	15 PSI	15 PSI
Nozzle Type:	FLAFAN	FLAFAN	FLAFAN	FLAFAN	FLAFAN	FLAFAN
Nozzle Description:	XR11002	XR11002	XR11002	XR11002	XR11002	XR11002
Nozzle Spacing, Unit:	15 IN	15 IN	15 IN	15 IN	15 IN	15 IN
Band Width, Unit:	15 IN	15 IN	15 IN	15 IN	15 IN	15 IN
Boom Length, Unit:	10 FT	10 FT	10 FT	10 FT	10 FT	10 FT
Boom Height, Unit:	15 IN	15 IN	15 IN	15 IN	15 IN	15 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH	3 MPH	3 MPH
Nozzle Filter Mesh:	50	50	50	50	50	50
Spray Volume, Unit:	15.0 GPA	15.0 GPA	15.0 GPA	15.0 GPA	15.0 GPA	15.0 GPA
Mix Size, Unit:	1.8 L	1.8	1.8	1.8	1.8	1.8
Propellent:	COMCO2	COMCO2	COMCO2	COMCO2	COMCO2	COMCO2
Application Method:	NONINC	NONINC	NONINC	NONINC	NONINC	NONINC
Application Timing:	PREPRE	EAPOCR	POSPOS	LAPOCR	POSPOS	POSPOS
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL

G	
Application Date/Time:	
Applied By:	
Target (Crop):	
Variety (Crop):	
Equipment Name:	
Application Equipment:	
Pressure, Unit:	
Nozzle Type:	
Nozzle Description:	
Nozzle Spacing, Unit:	
Band Width, Unit:	
Boom Length, Unit:	
Boom Height, Unit:	
Ground Speed, Unit:	
Nozzle Filter Mesh:	
Spray Volume, Unit:	
Mix Size, Unit:	
Propellent:	
Application Method:	
Application Timing:	
Applic. Placement:	

No.	Date/Time	Area	Type	Amount	Unit	Interval	Unit	Water Depth	Unit	Water Management	Water Leakage	Unit	Overall Soil Moisture Condition
1.	2/Jun/2006 8:00 AM	Trial	IRRIGATION	0.6	IN								
2.	8/Jun/2006 8:00 AM	Trial	IRRIGATION	1.2	IN								
3.													
4.													
5.													

No.	Date	Area	Laboratory Name	pH/KCL	pH/H2O	CEC	Soil Texture
1.	29/Nov/2004	Trial	A & L	6.3	6.3	6.0	

Soil Component: % Organic Matter: 2.2  
 Soil Element: P: 52.0 PPM K: 170.0 PPM Ca: 600.0 PPM Mg: 165.0 PPM

No.	Soil Analy. No.	Product	Quantity	Unit
1.				

### INOCULATION/INFESTATION

1.

No.	Date	Area	TYPE	Rate	Unit	Comment
1.	26/Apr/2006	Trial	FERTILIZATION	160.0	GPA	Nitrogen

Maint. No.	INGREDIENT TYPE	PRODUCT NAME [DSP]	Form Type	Form Conc	Form Unit	Form Variety	Batch/Lot Number	Rate	Unit
1.									

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

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Code	Pest Development	Comment
1.		
Code	Comment	
1.		
Code	Comment	
1.		

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Area Name	Treatment Numbers in Area
1.	

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**INSTRUCTIONS**

Sypos Task Number: T006973-05  
 DM Contact: B. Pope  
 Proposed Trials: 1-IA-Moses, 1-IL-Cully, 1-KS-Forster, 1-IL-Bruce, 1-NE-Stamm, 1-MO-Nichols, 1-OH-Bruns, 1-WI-Sanborn, 1-IN-Mroczkiewicz, 1-MD-Lins, 1-TN-Holloway, 1-AR-Black  
 Crops: CORN  
 Targets: Annual Weeds  
 Primary Reviewers(2): Lins Ryan, Shinn Sandra  
 No. Evaluations: 5

=====  
 Objective Notes:  
 =====  
 1) Compare reduced rates of Lumax or Lexar PREM fb Touchdown to competitive treatments in GT corn.  
 2) Compare early post emergence tank mixtures of Lumax or Lexar + Touchdown to competitive treatments in GT corn.  
 3) What is the most effective use of Lumax or Lexar in GT corn.  
 4) Compare these Lumax or Lexar treatments to competitive GT corn treatments for safety to corn and yield.  
 =====  
 Trial Design Notes:  
 =====  
 RCBD with size to be determined by trialist

4 rep study with corn yield required  
 =====  
 Treatment Notes:  
 =====  
 A = PREM  
 B = Early POST - target 1-2" weeds  
 C = POST target 3-4" weeds  
 D = Late POST target 8-10" weeds  
 E = POST treatment after Harness Xtra (treatment 8) - target 2-4" weed regrowth or V8 corn (whichever is first)  
 F = POST treatment after Lumax or Lexar (treatments 4 & 5) - target 2-4" weed regrowth or V8 corn (whichever is first)  
 G = 2nd POST treatment after Roundup Weathermax (treatment 11) - target 2-4" weed regrowth or V8 corn (whichever is first)

The philosophy of timings E, F & G is to document the value of using a reduced rate of Lumax or Lexar vs Harness Xtra. Do not arbitrarily apply all the POST timings following PREM at the same time, but apply them when needed and therefore show the advantage of Lumax / Lexar vs Harness Xtra.

C, D, E, F & G may not necessarily be applied in that order.

For treatment #8 use either Harness Xtra 5.6 or 6.0 based on local use. Adjust rate for the product used:  
 If Harness Xtra 5.6 use 1.5 qt/A (2360 g ai/h)  
 If Harness Xtra 6.0 use 1.2 qt/A (2020 g ai/h)

Please feel free to add any locally important GT corn competitive treatments after number 15

Please apply all treatments in 15 to 20 GPA carrier volume

1%W/V AMS = 8.5 lb/100 gallon spray solution. You may use dry AMS or a liquid AMS such as N-Pak AMS at an equivalent rate

TREATMENTS 2, 3, 12 & 13 should be adjusted to Soil Type for LUMAX and LEXAR

Organic Matter	<3%	>3%
Lexar	3100 g ai/h	3630 g ai/h
Lumax	2760 g ai/h	3300 g ai/h

Design Codes for ordering products:  
 Lumax = A12854L  
 Lexar = A14224A  
 Expert = A12453F

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 Assessment Notes:  
 =====  
 Yield in bu/A adjusted to 15.5% moisture

Evaluate corn injury at 3-7, 14 and 28 DAT (B timing) - continue to evaluate at 14 day intervals if injury persists beyond 28 DAT

Evaluate weed control at 14, 28 and 42-56 DAT (B timing) - the last rating should be late enough to evaluate late season residual activity or lack of it from all treatments

Please document weed control between treatments 2 - 5 as well as 12 & 13 (Lumax and Lexar) and compare it to treatment 8 (Harness Xtra) at the time that treatment 8 has reached 2-4" weeds and requires POST treatment. A set of photos at this time would be helpful.

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

Other Notes:  
 =====  
 Please document PREM efficacy and length of control with a photo set of treatments 2 - 5 as well as 12 & 13 and treatment 8 at the POST timing of treatment 8. Also please document with photos of all treatments near corn canopy closure as well as any other time that best documents the value of Lumax and Lexar PREM and EPOST vs straight Roundup, Harness Xtra fb Roundup or any other competitive programs.

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=====  
 Feedback Provided By:  
 =====  
 Lins, Bruce, Stamm, Urwiler and Shinn

**Assessment Tasks**

*GRID_HEADING*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	Scale Max	Cat. Mult.	No. Subs.	Action Code	Trans. Code	
1.	1	X001	% General phyto on p	PLANT	PHYGEN	%	1.0	PLOT	1.0	PLOT	1.0	PLOT	NOR	RAW	NC	S							
2.	2	W003	% weed control	PLANT	CONTRO	%	1.0	PLOT	1.0	PLOT	1.0	PLOT	NOR	RAW	NC	S							
3.				GRAIN	WEIGHT	LB		FT2	1.0	PLOT		FT2	YLD	WGT	IN	O							
4.				GRAIN	YIELD	BU					1.0	ACRE	YLD	YLR	IN	O							
5.	5	Y086	% moisture content o	GRAIN	CONMOI	%	1.0	PLOT	1.0	PLOT	1.0	PLOT	YLM	MOI	NC	O							0
6.																							
7.																							

*GRID_HEADING*No.	Timing ID	Min Reps	Max Reps	Intv Min	Intv Max	Intv Unit	Start Date	Days After	End Date	PHI	Crop	Target	Timing From	Timing To	Timing Unit
1.	1														
2.	2														
3.															
4.															
5.	5														

No. Task Comment

1. Trial Comments

# Purdue University

Country: UNITED STATES OF AMERICA      Region:      Trial Use: Normal  
 Discipline: HERBICIDE      Sequence:      Year: 2006  
 Trial Id.: US\_0H\_2006      Protocol Id.: HMS002A4-2006US      Revision Date: Apr 13  
 Master Protocol Id.:

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

Title: Evaluate LUMAX and Lexar in Glyphosate Tolerant Corn systems with COI.

Assessment Date	1/1Jun/2006	1/1Jun/2006	1/1Jun/2006	1/1Jun/2006	13/1Jun/2006	13/1Jun/2006	13/1Jun/2006	23/1Jun/2006	23/1Jun/2006	23/1Jun/2006		
Assessed By	VMD	2 ZEAMX	2 ZEAMX	2 ZEAMX	2 ZEAMX	EC-JM 2 ZEAMX	EC-JM 2 ZEAMX	EC-JM 2 ZEAMX	2 ZEAMX	2 ZEAMX	2 ZEAMX	
Crop Code	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	
Crop Variety												
Crop Development												
Pest Code		8 AMBTR	9 CHEAL	10 ABUTH	11 AMBTR	12 CHEAL	13 ABUTH	14 AMBTR	15 CHEAL	16 ABUTH		
SE Group No.	1	1	1	1	2	3	3	4	5	5		
SE Name												
Part Assessed												
Assessment Data Type	PHYCHL	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	
Assessment Unit	%	%	%	%	%	%	%	%	%	%	%	
Samples per 1 Collect. Basis, Unit												
Collection Basis, Unit												
Reporting Basis, Unit												
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	
Calculation, Scale Type												
ARM Action Codes												
Transformation Code												
Days After Planting	23DAP-1	23DAP-1	23DAP-1	23DAP-1	35DAP-1	35DAP-1	35DAP-1	45DAP-1	45DAP-1	45DAP-1	45DAP-1	
Days After Last Application	0	0	0	0	0	0	0	10	10	10	10	
No. Decimals Reported												
Trt	1	2	3	4	5	6	7	8	9	10		
Treatment/Product Name	101 404 702 1005 Mean =	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
Product/AI Rate		3330.0										
Product/AI Rate Unit		GA/HA										
Converted Rate		3										
Converted Rate Unit		QT/A										
Applic. Code		A										
Applic. Timing		PREPRE										
Plot	102 503 802 804 Mean =	0 90 100 100 100	0 100 100 100 100	0 100 100 100 100	0 100 100 100 100	0 98 100 100 100	0 100 100 100 100	0 100 100 100 100	0 95 100 100 100	0 100 100 100 100	0 100 100 100 100	0 100 100 100 100
Treatment/Product Name	103 505 606 1006 Mean =	0 100 100 100 100	0 100 100 100 100	0 100 100 100 100	0 98 100 100 100	0 99 100 100 100	0 100 100 100 100	0 99 100 100 100	0 97 100 100 100	0 100 100 100 100	0 100 100 100 100	0 100 100 100 100
Product/AI Rate		2200.0										
Product/AI Rate Unit		GA/HA										
Converted Rate		2										
Converted Rate Unit		QT/A										
Applic. Code		A										
Applic. Timing		PREPRE										
Plot	104 402 701 904 Mean =	0 90 100 100 100	0 85 100 100 100	0 100 100 100 100	0 100 100 100 100	0 97 100 100 100	0 100 100 100 100	0 100 100 100 100	0 95 100 100 100	0 100 100 100 100	0 97 100 100 100	0 98 100 100 100
Product/AI Rate		2440.0										
Product/AI Rate Unit		GA/HA										
Converted Rate		2.35										
Converted Rate Unit		QT/A										
Applic. Code		A										
Applic. Timing		PREPRE										
Plot	105 403 703 901 Mean =	0 90 100 100 100	0 100 100 100 100	0 100 100 100 100	0 98 100 100 100	0 99 100 100 100	0 100 100 100 100	0 100 100 100 100	0 98 100 100 100	0 100 100 100 100	0 100 100 100 100	0 100 100 100 100
Product/AI Rate		2200.0										
Product/AI Rate Unit		GA/HA										
Converted Rate		2										
Converted Rate Unit		QT/A										
Applic. Code		B										
Applic. Timing		EAPOCR										
Plot	106 401 603 1001 Mean =	0 90 100 100 100	0 100 100 100 100	0 100 100 100 100	0 100 100 100 100	0 95 100 100 100	0 100 100 100 100	0 100 100 100 100	0 98 100 100 100	0 100 100 100 100	0 99 100 100 100	0 100 100 100 100
Product/AI Rate		2440.0										
Product/AI Rate Unit		GA/HA										
Converted Rate		2.35										
Converted Rate Unit		QT/A										
Applic. Code		B										
Applic. Timing		EAPOCR										
Plot	201 506 705 1003 Mean =	0 88 100 100 100	0 100 100 100 100	0 100 100 100 100	0 100 100 100 100	0 98 100 100 100	0 100 100 100 100	0 100 100 100 100	0 100 100 100 100	0 100 100 100 100	0 100 100 100 100	0 100 100 100 100
Product/AI Rate		2360.0										
Product/AI Rate Unit		GA/HA										
Converted Rate		1.5										
Converted Rate Unit		QT/A										
Applic. Code		A										
Applic. Timing		PREPRE										
Plot	202 305 601 1002 Mean =	0 70 88 100 100	0 88 100 100 100	0 100 100 100 100	0 100 100 100 100	0 95 100 100 100	0 100 100 100 100	0 100 100 100 100	0 95 100 100 100	0 100 100 100 100	0 97 100 100 100	0 100 100 100 100
Product/AI Rate		870.0										
Product/AI Rate Unit		GAE/HA										
Converted Rate		22										
Converted Rate Unit		FLOzPrt/A										
Applic. Code		C										
Applic. Timing		POSPOS										
Plot	203 306 704 1004 Mean =	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 90 90 100 100	0 100 100 100 100	0 98 100 100 100	0 85 95 100 100	0 100 100 100 100	0 97 100 100 100	0 98 98 100 100

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Assessment Date										1/Jun/2006	1/Jun/2006	1/Jun/2006	1/Jun/2006	13/Jun/2006	13/Jun/2006	13/Jun/2006	23/Jun/2006	23/Jun/2006	23/Jun/2006	
Assessed By										VMD										
Crop Code										2 ZEAMX										
Crop Variety										DKC60-18RR2-YGPL										
Crop Development										DKC60-18RR2-YGPL										
Pest Code																				
SE Group No.										1	8 AMBTR	1	9 CHEAL	10 ABUTH	11 AMBTR	12 CHEAL	13 ABUTH	14 AMBTR	15 CHEAL	16 ABUTH
SE Name																				
Part Assessed																				
Assessment Data Type										PHYCHL										
Assessment Unit										%										
Samples per 1 Collect. Basis, Unit																				
Collection Basis, Unit																				
Reporting Basis, Unit																				
Assessment Type, Sub-Type										NOR RAW										
Calculation, Scale Type																				
ARM Action Codes																				
Transformation Code																				
Days After Planting										23DAP-1	23DAP-1	23DAP-1	23DAP-1	35DAP-1	35DAP-1	35DAP-1	45DAP-1	45DAP-1	45DAP-1	
Days After Last Application										0	0	0	0	0	0	0	10	10	10	
No. Decimals Reported																				
Trt	Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Converted Rate	Converted Rate Unit	Applic. Code	Applic. Timing	Plot	1	2	3	4	5	6	7	8	9	10		
10	ROUNDUP WEATHERMAX 4.5 SL (AE)	870.0	GAE/HA	22	FLOzPr/A	D	LAPOCR	204	0	0	0	0	0	0	0	95	100	96		
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	D	LAPOCR	406	0	0	0	0	0	0	0	96	97	95		
								605	0	0	0	0	0	0	0	100	96	98		
								903	0	0	0	0	0	0	0	100	100	100		
		Mean =							0	0	0	0	0	0	0	98	98	97		
11	ROUNDUP WEATHERMAX 4.5 SL (AE)	870.0	GAE/HA	22	FLOzPr/A	C	POSPOS	205	0	0	0	0	91	100	98	85	95	90		
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	C	POSPOS	501	0	0	0	0	100	100	99	100	100	95		
	ROUNDUP WEATHERMAX 4.5 SL (AE)	870.0	GAE/HA	22	FLOzPr/A	G	POSPOS	604	0	0	0	0	100	100	99	100	100	97		
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	G	POSPOS	905	0	0	0	0	95	100	95	96	100	90		
		Mean =							0	0	0	0	97	100	98	95	99	93		
12	LUMAX 3.94 SE	3300.0	GAE/HA	3	OT/A	A	PREPRE	206	0	95	100	100	95	100	99	95	100	95		
	TOUCHDOWN TOTAL 4.17 SL	880.0	GAE/HA	24	FLOzPr/A	F	POSPOS	405	0	100	100	100	100	100	100	100	100	100		
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	F	POSPOS	803	0	100	100	98	100	100	100	100	100	100		
								806	0	100	100	100	100	100	100	99	100	100		
		Mean =							0	99	100	100	100	99	100	100	99	100	99	
13	LEXAR 3.7 SE	3630.0	GAE/HA	3.5	OT/A	A	PREPRE	301	0	95	100	100	98	100	100	100	100	100		
	TOUCHDOWN TOTAL 4.17 SL	880.0	GAE/HA	24	FLOzPr/A	F	POSPOS	304	0	100	100	98	100	100	100	100	100	100		
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	F	POSPOS	801	0	100	100	100	100	100	100	100	100	100		
								902	0	100	100	100	100	100	100	100	100	100		
		Mean =							0	99	100	100	100	100	100	100	100	100	100	
14	ROUNDUP WEATHERMAX 4.5 SL (AE)	870.0	GAE/HA	22	FLOzPr/A	B	EAPOCR	302	0	100	100	90	98	100	98	95	100	95		
	RESOLVE 25 DF	17.5	GAE/HA	1	OzWPr/A	B	EAPOCR	504	0	100	100	75	100	100	80	100	100	85		
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	B	EAPOCR	602	0	100	100	85	100	100	85	100	100	94		
								906	0	90	100	80	100	100	90	100	100	90		
		Mean =							0	98	100	83	100	100	88	99	100	91		
15	EXPERT 4.9 SC (A12453 F)	4100.0	GAE/HA	3	OT/A	B	EAPOCR	303	0	100	100	100	99	100	100	98	100	100		
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	B	EAPOCR	502	0	100	100	98	100	100	99	100	100	98		
								706	0	100	100	85	100	100	95	100	100	94		
								805	0	100	100	95	100	100	99	100	100	99		
		Mean =							0	100	100	95	100	100	98	100	100	98		

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Assessment Date									23/Jun/2006	7/Jul/2006	7/Jul/2006	7/Jul/2006	2/Nov/2006	2/Nov/2006	2/Nov/2006	2/Nov/2006	
Assessed By																	
Crop Code									4 ZEAMX	4 ZEAMX	4 ZEAMX	4 ZEAMX	9 ZEAMX	9 ZEAMX	9 ZEAMX	9 ZEAMX	
Crop Variety									DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	
Crop Development																	
Pest Code																	
SE Group No.									5	17 AMBTR	18 CHEAL	19 ABUTH	6	6	6	6	
SE Name																	
Part Assessed																	
Assessment Data Type									PHYGEN	CONTRO	CONTRO	CONTRO	Y086 GRAIN CONMOI	GRAIN WEIGHT	GRAIN WEITES	GRAIN YIELD	
Assessment Unit									%	%	%	%	%	LB	LB	BU	
Samples per 1 Collect. Basis, Unit													1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT	
Collection Basis, Unit													FT2	FT2	FT2	FT2	
Reporting Basis, Unit													1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT	
Assessment Type, Sub-Type									NOR RAW	NOR RAW	NOR RAW	NOR RAW	YLM MOI	YLD YLR	YLD YLR	YLD YLR	
Calculation, Scale Type													IN O	IN O	IN O	IN O	
ARM Action Codes																	
Transformation Code													0				
Days After Planting									45DAP-1	59DAP-1	59DAP-1	59DAP-1	177DAP-1	177DAP-1	177DAP-1	177DAP-1	
Days After Last Application									10	14	14	14	132	132	132	132	
No. Decimals Reported																	
Trt	Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Converted Rate	Converted Rate Unit	Applic. Code	Applic. Timing	Plot	11	12	13	14	15	16	17	18	
1	CHECK UNTREATED							101	0	0	0	0	13*	33*	28*	208.6*	
								404	0	0	0	0	13	33	28	210.1	
								702	0	0	0	0	14	35	28	224.1	
								1005	0	0	0	0	13	34	28	219.0	
								Mean =	0	0	0	0	13	34	28	215.5	
2	LUMAX 3.94 SE	3330.0	GA/HA	3	QT/A	A	PREPRE	102	0	95	100	100	12	39	28	249.0	
								503	0	100	100	100	13	32	28	202.4	
								802	0	100	100	100	14	33	28	209.4	
								804	0	100	100	100	13	33	28	208.8	
								Mean =	0	99	100	100	13	34	28	217.4	
3	LEXAR 3.7 SE	3630.0	GA/HA	3.5	QT/A	A	PREPRE	103	0	95	100	100	13	30	28	194.1	
								505	0	100	100	100	14	34	28	214.5	
								606	0	100	100	100	14	34	28	219.0	
								1006	0	100	100	100	13	36	29	231.1	
								Mean =	0	99	100	100	13	34	28	214.7	
4	LUMAX 3.94 SE	2200.0	GA/HA	2	QT/A	A	PREPRE	104	0	100	100	100	13	38	28	239.4	
	TOUCHDOWN TOTAL 4.17 SL	880.0	GAE/HA	24	FLOzPr/A	F	POSPOS	402	0	95	100	99	14*	34*	28*	218.5*	
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	F	POSPOS	701	0	100	100	100	14	28	28	178.8	
								904	0	100	100	99	13	33	28	212.6	
								Mean =	0	99	100	100	13	33	28	212.3	
5	LEXAR 3.7 SE	2440.0	GA/HA	2.35	QT/A	A	PREPRE	105	0	100	100	100	13	37	28	238.8	
	TOUCHDOWN TOTAL 4.17 SL	880.0	GAE/HA	24	FLOzPr/A	F	POSPOS	403	0	100	100	100	14	37	28	235.0	
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	F	POSPOS	703	0	100	100	100	14	33	28	212.6	
								901	0	100	100	100	14	38	28	245.2	
								Mean =	0	100	100	100	14	36	28	232.9	
6	LUMAX 3.94 SE	2200.0	GA/HA	2	QT/A	B	EAPOCR	106	0	100	100	100	14	30	28	192.8	
	TOUCHDOWN TOTAL 4.17 SL	880.0	GAE/HA	24	FLOzPr/A	B	EAPOCR	401	0	100	100	100	14*	34*	28*	218.5*	
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	B	EAPOCR	603	0	100	100	100	14	36	28	226.7	
								1001	0	100	100	100	13	33	28	211.3	
								Mean =	0	100	100	100	13	33	28	212.3	
7	LEXAR 3.7 SE	2440.0	GA/HA	2.35	QT/A	B	EAPOCR	201	0	98	100	100	13	30	28	194.1	
	TOUCHDOWN TOTAL 4.17 SL	880.0	GAE/HA	24	FLOzPr/A	B	EAPOCR	506	0	100	100	100	13	32	28	206.2	
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	B	EAPOCR	705	0	100	100	98	13	33	28	207.5	
								1003	0	100	100	100	13	34	28	217.1	
								Mean =	0	100	100	100	13	32	28	206.2	
8	HARNESS XTRA 5.6 L	2360.0	GA/HA	1.5	QT/A	A	PREPRE	202	0	93	100	96	13	33	28	211.3	
	ROUNDUP WEATHERMAX 4.5 SL (AE)	870.0	GAE/HA	22	FLOzPr/A	E	POSPOS	305	0	100	100	100	13	35	28	220.3	
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	E	POSPOS	601	0	100	100	97	13	31	28	196.7	
								1002	0	100	100	100	13	38	28	243.3	
								Mean =	0	98	100	98	13	34	28	217.9	
9	ROUNDUP WEATHERMAX 4.5 SL (AE)	870.0	GAE/HA	22	FLOzPr/A	C	POSPOS	203	0	60	100	80	13	33	28	211.3	
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	C	POSPOS	306	0	93	100	90	13	38	28	242.6	
								704	0	100	100	75	13	38	28	245.2	
								1004	0	100	99	90	14	33	28	212.0	
								Mean =	0	88	100	84	13	36	28	227.8	
10	ROUNDUP WEATHERMAX 4.5 SL (AE)	870.0	GAE/HA	22	FLOzPr/A	D	LAPOCR	204	0	95	100	95	13	33	28	212.6	
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	D	LAPOCR	406	0	99	100	99	14	35	28	220.9	
								605	0	98	100	95	13	35	28	221.6	
								903	0	100	100	97	13	31	28	196.7	
								Mean =	0	98	100	97	13	33	28	212.9	

### Purdue University

Assessment Date										23/Jun/2006	7/Jul/2006	7/Jul/2006	7/Jul/2006	2/Nov/2006	2/Nov/2006	2/Nov/2006	2/Nov/2006	
Assessed By																		
Crop Code										4 ZEAMX	4 ZEAMX	4 ZEAMX	4 ZEAMX	9 ZEAMX	9 ZEAMX	9 ZEAMX	9 ZEAMX	
Crop Variety										DKC60-18RR2-YGPL								
Crop Development																		
Pest Code																		
SE Group No.										5	17 AMBTR	18 CHEAL	19 ABUTH	6	6	6	6	
SE Name																		
Part Assessed														6	6	6	6	
Assessment Data Type														Y086				
Assessment Unit										PHYGEN	CONTRO	CONTRO	CONTRO	GRAIN	GRAIN	GRAIN	GRAIN	
Samples per 1 Collect. Basis, Unit										%	%	%	%	CONMOI	WEIGHT	WEITES	YIELD	
Collection Basis, Unit														%	LB	LB	BU	
Reporting Basis, Unit														1.0 PLOT		FT2		
Assessment Type, Sub-Type														1.0 PLOT		1.0 PLOT		
Calculation, Scale Type										NOR RAW	NOR RAW	NOR RAW	NOR RAW	1.0 PLOT	1.0 ACRE	FT2	1.0 ACRE	
ARM Action Codes														YLM MOI	YLD YLR	YLV WGT	YLD YLR	
Transformation Code														NC O	IN O	IN O	IN O	
Days After Planting										45DAP-1	59DAP-1	59DAP-1	59DAP-1	0				
Days After Last Application										10	14	14	14	177DAP-1	177DAP-1	177DAP-1	177DAP-1	
No. Decimals Reported														132	132	132	132	
Trt	Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Converted Rate	Converted Rate Unit	Applic. Code	Applic. Timing	Plot	11	12	13	14	15	16	17	18		
11	ROUNDUP WEATHERMAX 4.5 SL (AE)	870.0	GAE/HA	22	FLOzPr/A	C	POSPOS	205	0	99	100	100	13	30	28	189.0		
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	C	POSPOS	501	0	100	100	100	14	34	28	218.4		
	ROUNDUP WEATHERMAX 4.5 SL (AE)	870.0	GAE/HA	22	FLOzPr/A	G	POSPOS	604	0	100	100	100	13	32	28	203.0		
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	G	POSPOS	905	0	100	100	100	14	35	28	226.0		
	Mean =								0	100	100	100	13	33	28	209.1		
12	LUMAX 3.94 SE	3300.0	GAE/HA	3	QT/A	A	PREPRE	206	0	99	100	100	13	31	29	199.2		
	TOUCHDOWN TOTAL 4.17 SL	880.0	GAE/HA	24	FLOzPr/A	F	POSPOS	405	0	100	100	100	14	32	28	203.7		
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	F	POSPOS	803	0	100	100	100	13	32	28	203.7		
								806	0	100	100	100	13	37	28	233.7		
	Mean =								0	100	100	100	13	33	28	210.1		
13	LEXAR 3.7 SE	3630.0	GAE/HA	3.5	QT/A	A	PREPRE	301	0	100	100	100	13	34	28	216.4		
	TOUCHDOWN TOTAL 4.17 SL	880.0	GAE/HA	24	FLOzPr/A	F	POSPOS	304	0	100	100	100	13	34	28	219.6		
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	F	POSPOS	801	0	100	100	100	13	34	28	217.7		
								902	0	100	100	100	13	9	27	57.5		
	Mean =								0	100	100	100	13	28	28	177.8		
14	ROUNDUP WEATHERMAX 4.5 SL (AE)	870.0	GAE/HA	22	FLOzPr/A	B	EAPOCR	302	0	92	100	87	13	32	28	202.4		
	RESOLVE 25 DF	17.5	GAE/HA	1	OzWPr/A	B	EAPOCR	504	0	100	100	70	13	34	28	215.8		
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	B	EAPOCR	602	0	100	100	96	13	34	28	214.5		
								906	0	100	100	77	13	31	28	195.4		
	Mean =								0	98	100	83	13	32	28	207.0		
15	EXPERT 4.9 SC (A12453 F)	4100.0	GAE/HA	3	QT/A	B	EAPOCR	303	0	96	100	92	13	17	27	105.4		
	AMMONIUM SULFATE SG	1.0	%W/V	1	%W/V	B	EAPOCR	502	0	100	100	95	14	33	27	212.6		
								706	0	100	100	87	13	36	28	232.4		
								805	0	100	100	95	13	35	28	221.6		
	Mean =								0	99	100	92	13	30	28	193.0		

Column 18: TY1 = 6.384872[16]

# Purdue University

Country: UNITED STATES OF AMERICA      Region:      Trial Use: Normal  
 Discipline: HERBICIDE      Sequence:      Year: 2006  
 Trial Id.: US\_0H\_2006      Protocol Id.: HMS002A4-2006US      Revision Date: Apr 13  
 Master Protocol Id.:

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

Title: Evaluate LUMAX and Lexar in Glyphosate Tolerant Corn systems with COI.

Assessment Date	1/Jun/2006	1/Jun/2006	1/Jun/2006	1/Jun/2006	13/Jun/2006	13/Jun/2006	13/Jun/2006	23/Jun/2006	23/Jun/2006	23/Jun/2006	23/Jun/2006						
Assessed By	VMD	2 ZEAMX	2 ZEAMX	2 ZEAMX	2 ZEAMX	2 ZEAMX	2 ZEAMX	2 ZEAMX	2 ZEAMX	2 ZEAMX	2 ZEAMX	4 ZEAMX					
Crop Code	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL					
Crop Variety		8 AMBTR	9 CHEAL	10 ABUTH	11 AMBTR	12 CHEAL	13 ABUTH	14 AMBTR	15 CHEAL	16 ABUTH		5					
Crop Development		1	1	1	2	3	3	4	5	5							
Pest Code																	
SE Group No.																	
SE Name																	
Part Assessed																	
Assessment Data Type	PHYCHL	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN					
Assessment Unit	%	%	%	%	%	%	%	%	%	%	%	%					
Samples per 1 Collect. Basis, Unit																	
Collection Basis, Unit																	
Reporting Basis, Unit																	
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW					
Calculation, Scale Type																	
ARM Action Codes																	
Transformation Code																	
Days After Planting	23DAP-1	23DAP-1	23DAP-1	23DAP-1	35DAP-1	35DAP-1	35DAP-1	45DAP-1	45DAP-1	45DAP-1	45DAP-1	45DAP-1					
Days After Last Application	0	0	0	0	0	0	0	10	10	10	10	10					
No. Decimals Reported																	
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Converted Rate	Converted Rate Unit	Applic. Code	Applic. Timing	1	2	3	4	5	6	7	8	9	10	11
1 CHECK UNTREATED							0	0	0	0	0	0	0	0	0	0	0
2 LUMAX 3.94 SE	3330.0	GA/HA	3	QT/A	A	PREPRE	0 a	98 a	100 a	100 a	100 a	100 a	100 a	99 ab	100 a	100 a	0 a
3 LEXAR 3.7 SE	3630.0	GA/HA	3.5	QT/A	A	PREPRE	0 a	100 a	100 a	98 ab	100 a	100 a	100 a	99 a	100 a	100 a	0 a
4 LUMAX 3.94 SE TOUCHDOWN TOTAL 4.17 SL AMMONIUM SULFATE SG	2200.0 880.0 1.0	GA/HA GAE/HA %/WV	2 24 1	OT/A FLOzPrt/A %/WV	A F F	PREPRE POSPOS POSPOS	0 a	94 ab	100 a	100 a	98 a	100 a	100 a	97 abc	100 a	99 a	0 a
5 LEXAR 3.7 SE TOUCHDOWN TOTAL 4.17 SL AMMONIUM SULFATE SG	2440.0 880.0 1.0	GA/HA GAE/HA %/WV	2.35 24 1	OT/A FLOzPrt/A %/WV	A F F	PREPRE POSPOS POSPOS	0 a	98 a	100 a	99 a	100 a	100 a	100 a	100 a	100 a	100 a	0 a
6 LUMAX 3.94 SE TOUCHDOWN TOTAL 4.17 SL AMMONIUM SULFATE SG	2200.0 880.0 1.0	GA/HA GAE/HA %/WV	2 24 1	OT/A FLOzPrt/A %/WV	B B B	EAPOCR EAPOCR EAPOCR	0 a	98 a	100 a	99 a	99 a	100 a	100 a	100 a	100 a	100 a	0 a
7 LEXAR 3.7 SE TOUCHDOWN TOTAL 4.17 SL AMMONIUM SULFATE SG	2440.0 880.0 1.0	GA/HA GAE/HA %/WV	2.35 24 1	OT/A FLOzPrt/A %/WV	B B B	EAPOCR EAPOCR EAPOCR	0 a	97 a	100 a	99 a	100 a	100 a	100 a	100 a	100 a	100 a	0 a
8 HARNESS XTRA 5.6 L ROUNDUP WEATHERMAX 4.5 SL (AE) AMMONIUM SULFATE SG	2360.0 870.0 1.0	GA/HA GAE/HA %/WV	1.5 22 1	OT/A FLOzPrt/A %/WV	A E E	PREPRE POSPOS POSPOS	0 a	90 b	100 a	98 ab	81 b	100 a	96 b	98 abc	100 a	99 a	0 a
9 ROUNDUP WEATHERMAX 4.5 SL (AE) AMMONIUM SULFATE SG	870.0 1.0	GAE/HA %/WV	22 1	FLOzPrt/A %/WV	C C	POSPOS POSPOS	0 a	0 c	0 b	0 d	95 a	100 a	97 ab	95 c	100 a	95 bc	0 a
10 ROUNDUP WEATHERMAX 4.5 SL (AE) AMMONIUM SULFATE SG	870.0 1.0	GAE/HA %/WV	22 1	FLOzPrt/A %/WV	D D	LAPOCR LAPOCR	0 a	0 c	0 b	0 d	0 c	0 b	0 d	98 abc	98 b	97 ab	0 a
11 ROUNDUP WEATHERMAX 4.5 SL (AE) AMMONIUM SULFATE SG	870.0 1.0	GAE/HA %/WV	22 1	FLOzPrt/A %/WV	C C	POSPOS POSPOS	0 a	0 c	0 b	0 d	97 a	100 a	98 ab	95 bc	99 ab	93 cd	0 a
12 LUMAX 3.94 SE TOUCHDOWN TOTAL 4.17 SL AMMONIUM SULFATE SG	3300.0 880.0 1.0	GA/HA GAE/HA %/WV	3 24 1	OT/A FLOzPrt/A %/WV	A F F	PREPRE POSPOS POSPOS	0 a	99 a	100 a	100 a	99 a	100 a	100 a	99 ab	100 a	99 a	0 a
13 LEXAR 3.7 SE TOUCHDOWN TOTAL 4.17 SL AMMONIUM SULFATE SG	3630.0 880.0 1.0	GA/HA GAE/HA %/WV	3.5 24 1	OT/A FLOzPrt/A %/WV	A F F	PREPRE POSPOS POSPOS	0 a	99 a	100 a	100 a	100 a	100 a	100 a	100 a	100 a	100 a	0 a
14 ROUNDUP WEATHERMAX 4.5 SL (AE) RESOLVE 25 DF AMMONIUM SULFATE SG	870.0 17.5 1.0	GAE/HA GA/HA %/WV	22 1 1	FLOzPrt/A OzWpPrt/A %/WV	B B B	EAPOCR EAPOCR EAPOCR	0 a	98 a	100 a	83 c	100 a	100 a	88 c	99 ab	100 a	91 d	0 a

### Purdue University

Assessment Date	1/Jun/2006	1/Jun/2006	1/Jun/2006	1/Jun/2006	13/Jun/2006	13/Jun/2006	13/Jun/2006	23/Jun/2006	23/Jun/2006	23/Jun/2006	23/Jun/2006
Assessed By	VMD				EC+JM	EC+JM	EC+JM				
Crop Code	2 ZEAMX	2 ZEAMX	2 ZEAMX	2 ZEAMX	2 ZEAMX	2 ZEAMX	2 ZEAMX	2 ZEAMX	2 ZEAMX	2 ZEAMX	4 ZEAMX
Crop Variety	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL
Crop Development											
Pest Code		8 AMBTR	9 CHEAL	10 ABUTH	11 AMBTR	12 CHEAL	13 ABUTH	14 AMBTR	15 CHEAL	16 ABUTH	5
SE Group No.	1	1	1	1	2	3	3	4	5	5	
SE Name											
Part Assessed											
Assessment Data Type	PHYCHL	CONTRO	PHYGEN								
Assessment Unit	%	%	%	%	%	%	%	%	%	%	%
Samples per 1 Collect. Basis, Unit											
Collection Basis, Unit											
Reporting Basis, Unit											
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW
Calculation, Scale Type											
ARM Action Codes											
Transformation Code											
Days After Planting	23DAP-1	23DAP-1	23DAP-1	23DAP-1	35DAP-1	35DAP-1	35DAP-1	45DAP-1	45DAP-1	45DAP-1	45DAP-1
Days After Last Application	0	0	0	0	0	0	0	10	10	10	10
No. Decimals Reported											
Tri	1	2	3	4	5	6	7	8	9	10	11
Treatment/Product Name	15 EXPERT 4.9 SC (A12453 F) AMMONIUM SULFATE SG										
Product/AI Rate	4100.0										
Product/AI Rate Unit	G/A										
Converted Rate	1.0										
Converted Rate Unit	%W/W										
Applic. Code	3										
Applic. Timing	OT/A										
	B										
	EAPOCR										
	EAPOCR										
	0 a	100 a	100 a	95 b	100 a	100 a	98 ab	100 a	100 a	98 ab	0 a
LSD (P=.05)	0.0	6.7	0.0	3.7	9.0	0.0	3.7	3.6	1.3	3.3	0.0
Standard Deviation	0.0	4.7	0.0	2.6	6.3	0.0	2.6	2.5	0.9	2.3	0.0
CV	0.0	6.12	0.0	3.42	6.98	0.0	2.84	2.59	0.89	2.35	0.0
Grand Mean	0.0	76.27	78.57	76.3	90.39	92.86	91.09	98.32	99.79	97.88	0.0
Bartlett's X2	0.0	13.505	0.0	24.185	99.93	0.0	28.334	26.988	0.11	12.952	0.0
P(Bartlett's X2)	.	0.096	.	0.001*	0.001*	.	0.001*	0.005*	0.741	0.113	.
Replicate F	0.000	5.603	0.000	2.449	3.299	0.000	1.922	10.708	0.426	0.048	0.000
Replicate Prob(F)	1.0000	0.0027	1.0000	0.0780	0.0302	1.0000	0.1419	0.0001	0.7353	0.9857	1.0000
Treatment F	0.000	314.612	0.000	1015.724	70.412	0.000	417.906	1.652	1.567	6.435	0.000
Treatment Prob(F)	1.0000	0.0001	1.0000	0.0001	0.0001	1.0000	0.0001	0.1122	0.1376	0.0001	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)  
 Untreated treatment(s) 1 excluded from analysis.

### Purdue University

Assessment Date		7/Jul/2006	7/Jul/2006	7/Jul/2006	2/Nov/2006	2/Nov/2006	2/Nov/2006	2/Nov/2006						
Assessed By														
Crop Code		4 ZEAMX	4 ZEAMX	4 ZEAMX	9 ZEAMX	9 ZEAMX	9 ZEAMX	9 ZEAMX						
Crop Variety		DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL	DKC60-18RR2-YGPL						
Crop Development					99 99	99 99	99 99	99 99						
Pest Code														
SE Group No.		17 AMBTR	18 CHEAL	19 ABUTH	6	6	6	6						
SE Name					Y086									
Part Assessed					GRAIN	GRAIN	GRAIN	GRAIN						
Assessment Data Type		CONTRO	CONTRO	CONTRO	CONMOI	WEIGHT	WEITES	YIELD						
Assessment Unit		%	%	%	%	LB	LB	BU						
Samples per 1 Collect. Basis, Unit					1.0 PLOT									
Collection Basis, Unit					1.0 PLOT		1.0 PLOT							
Reporting Basis, Unit					1.0 PLOT	1.0 ACRE	FT2	1.0 ACRE						
Assessment Type, Sub-Type		NOR RAW	NOR RAW	NOR RAW	YLM MOI	YLD YLR	YLV WGT	YLD YLR						
Calculation, Scale Type					NC O	IN O	IN O	IN O						
ARM Action Codes								TY1						
Transformation Code					0									
Days After Planting		59DAP-1	59DAP-1	59DAP-1	177DAP-1	177DAP-1	177DAP-1	177DAP-1						
Days After Last Application		14	14	14	132	132	132	132						
No. Decimals Reported								1						
Trt	Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Converted Rate	Converted Rate Unit	Applic. Code	Applic. Timing	12	13	14	15	16	17	18
1	CHECK UNTREATED							0	0	0	13	34	28	217.7
2	LUMAX 3.94 SE	3330.0	GA/HA	3	QT/A	A	PREPRE	99 a	100 a	100 a	13 d	34 ab	28 ab	217.4 ab
3	LEXAR 3.7 SE	3630.0	GA/HA	3.5	QT/A	A	PREPRE	99 a	100 a	100 a	13 a-d	34 ab	28 a	214.7 ab
4	LUMAX 3.94 SE TOUCHDOWN TOTAL 4.17 SL AMMONIUM SULFATE SG	2200.0 880.0 1.0	GA/HA GAE/HA %WV	2 24 1	QT/A FLOzPr/A %WV	A F F	PREPRE POSPOS POSPOS	99 a	100 a	100 a	13 abc	33 ab	28 ab	212.6 ab
5	LEXAR 3.7 SE TOUCHDOWN TOTAL 4.17 SL AMMONIUM SULFATE SG	2440.0 880.0 1.0	GA/HA GAE/HA %WV	2.35 24 1	QT/A FLOzPr/A %WV	A F F	PREPRE POSPOS POSPOS	100 a	100 a	100 a	14 a	36 a	28 ab	232.9 a
6	LUMAX 3.94 SE TOUCHDOWN TOTAL 4.17 SL AMMONIUM SULFATE SG	2200.0 880.0 1.0	GA/HA GAE/HA %WV	2 24 1	QT/A FLOzPr/A %WV	B B B	EAPOCR EAPOCR EAPOCR	100 a	100 a	100 a	13 ab	33 ab	28 ab	212.6 ab
7	LEXAR 3.7 SE TOUCHDOWN TOTAL 4.17 SL AMMONIUM SULFATE SG	2440.0 880.0 1.0	GA/HA GAE/HA %WV	2.35 24 1	QT/A FLOzPr/A %WV	B B B	EAPOCR EAPOCR EAPOCR	100 a	100 a	100 a	13 bcd	32 ab	28 a	206.2 ab
8	HARNES XTRA 5.6 L ROUNDUP WEATHERMAX 4.5 SL (AE) AMMONIUM SULFATE SG	2360.0 870.0 1.0	GA/HA GAE/HA %WV	1.5 22 1	QT/A FLOzPr/A %WV	A E E	PREPRE POSPOS POSPOS	98 a	100 a	98 a	13 cd	34 ab	28 ab	217.9 ab
9	ROUNDUP WEATHERMAX 4.5 SL (AE) AMMONIUM SULFATE SG	870.0 1.0	GAE/HA %WV	22 1	FLOzPr/A %WV	C C	POSPOS POSPOS	88 b	100 b	84 c	13 a-d	36 a	28 ab	227.8 a
10	ROUNDUP WEATHERMAX 4.5 SL (AE) AMMONIUM SULFATE SG	870.0 1.0	GAE/HA %WV	22 1	FLOzPr/A %WV	D D	LAPOCR LAPOCR	98 a	100 a	97 ab	13 a-d	33 ab	28 ab	212.9 ab
11	ROUNDUP WEATHERMAX 4.5 SL (AE) AMMONIUM SULFATE SG ROUNDUP WEATHERMAX 4.5 SL (AE) AMMONIUM SULFATE SG	870.0 1.0 870.0 1.0	GAE/HA %WV GAE/HA %WV	22 1 22 1	FLOzPr/A %WV FLOzPr/A %WV	C C G G	POSPOS POSPOS POSPOS POSPOS	100 a	100 a	100 a	13 a-d	33 ab	28 ab	209.1 ab
12	LUMAX 3.94 SE TOUCHDOWN TOTAL 4.17 SL AMMONIUM SULFATE SG	3300.0 880.0 1.0	GA/HA GAE/HA %WV	3 24 1	QT/A FLOzPr/A %WV	A F F	PREPRE POSPOS POSPOS	100 a	100 a	100 a	13 a-d	33 ab	28 a	210.1 ab
13	LEXAR 3.7 SE TOUCHDOWN TOTAL 4.17 SL AMMONIUM SULFATE SG	3630.0 880.0 1.0	GA/HA GAE/HA %WV	3.5 24 1	QT/A FLOzPr/A %WV	A F F	PREPRE POSPOS POSPOS	100 a	100 a	100 a	13 bcd	28 b	28 ab	177.8 b
14	ROUNDUP WEATHERMAX 4.5 SL (AE) RESOLVE 25 DF AMMONIUM SULFATE SG	870.0 17.5 1.0	GAE/HA GA/HA %WV	22 1 1	FLOzPr/A OzWtPr/A %WV	B B B	EAPOCR EAPOCR EAPOCR	98 a	100 a	83 c	13 a-d	32 ab	28 ab	207.0 ab
15	EXPERT 4.9 SC (A12453 F) AMMONIUM SULFATE SG	4100.0 1.0	GA/HA %WV	3 1	QT/A %WV	B B	EAPOCR EAPOCR	99 a	100 a	92 b	13 a-d	30 ab	28 b	193.0 ab
LSD (P=.05)				7.1	0.2	5.7	0.4				7.2	0.4		45.88
Standard Deviation				5.0	0.1	4.0	0.3				5.0	0.3		32.10
CV				5.09	0.13	4.15	2.03				15.22	1.02		15.22
Grand Mean				98.34	99.98	96.55	13.3				33.03	27.88		210.86
Bartlett's X2				64.348	0.0	39.618	17.893				34.683	9.89		34.683
P(Bartlett's X2)				0.001*	.	0.001*	0.162				0.001*	0.703		0.001*

### Purdue University

Assessment Date	7/Jul/2006	7/Jul/2006	7/Jul/2006	2/Nov/2006	2/Nov/2006	2/Nov/2006	2/Nov/2006
Assessed By							
Crop Code	4 ZEAMX	4 ZEAMX	4 ZEAMX	9 ZEAMX	9 ZEAMX	9 ZEAMX	9 ZEAMX
Crop Variety	DKC60-18RR2-YGPL						
Crop Development				99 99	99 99	99 99	99 99
Pest Code	17 AMBTR	18 CHEAL	19 ABUTH				
SE Group No.	6	6	6	6	6	6	6
SE Name				Y086			
Part Assessed				GRAIN	GRAIN	GRAIN	GRAIN
Assessment Data Type	CONTRO	CONTRO	CONTRO	CONMOI	WEIGHT	WEITES	YIELD
Assessment Unit	%	%	%	%	LB	LB	BU
Samples per 1 Collect. Basis, Unit				1.0 PLOT			
Collection Basis, Unit				1.0 PLOT		1.0 PLOT	
Reporting Basis, Unit				1.0 PLOT	1.0 ACRE	FT2	1.0 ACRE
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	YLM MOI	YLD YLR	YLV WGT	YLD YLR
Calculation, Scale Type				IN O	IN O	IN O	IN O
ARM Action Codes							TY1
Transformation Code				0			
Days After Planting	59DAP-1	59DAP-1	59DAP-1	177DAP-1	177DAP-1	177DAP-1	177DAP-1
Days After Last Application	14	14	14	132	132	132	132
No. Decimals Reported							1
Replicate F	3.897	1.000	0.066	9.031	0.510	0.867	0.510
Replicate Prob(F)	0.0158	0.4031	0.9774	0.0001	0.6777	0.4667	0.6781
Treatment F	1.434	1.000	9.203	1.369	0.699	1.101	0.699
Treatment Prob(F)	0.1880	0.4697	0.0001	0.2204	0.7520	0.3879	0.7521

Means followed by same letter do not significantly differ (P=.05, LSD)  
 Untreated treatment(s) 1 excluded from analysis.

Column 18: TY1 = 6.384872\*[16]