

# Purdue University

Country: UNITED STATES OF AMERICA Region: NJ Trial Use: Normal  
 Discipline: HERBICIDE Sequence: 001 Year: 2009  
 Trial Id.: USNJ0H0012009 Protocol Id.: HRDL02A4-2009US Revision Date: Feb 23  
 Master Protocol Id.:

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

Title: Lumax, Lexar vs New Competitors at Foundation Rates

### 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: 5-22-2009 Plot Items: 1.0 Plot Unit: PLOT Study Design: RACOB  
 Trial Location: Throckmorton Purdue Agriculture Center Farm/Station Name: TPAC  
 County: Tippecanoe Farm Manager: Jay Young  
 State/Province: IN Street: 8323 US Highway 231  
 Postal Code: 47909 City+State/Prov: Lafayette, IN  
 Cooperator Name: Purdue University Postal Code: 47909  
 Country: UNITED STATES OF AMERICA

Soil Texture: SILT LOAM  
 Soil Drainage: FAIR  
 Tillage Type: CONVENTIONAL-TILL

#### SITE USAGE

Site Type
FIELD

Previous Crop/Pest	Previous Crop/Pest Variety
GLYCINE MAX	Roundup Ready

### GENERAL TRIAL INFORMATION

Initiation Date: 4-14-2009 Planned Completion: 8-10-2009 Protocol Id. : HRDL02A4-2009US  
 Title: Lumax, Lexar vs New Competitors at Foundation Rates  
 Intl./Overall Protocol Owner : Dane Bowers Investigator: Dr. Bill Johnson  
 Local Protocol Responsibility: Ryan Daniel Lins

### TRIAL STATUS

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

### SEED DESCRIPTION

1. Date: 5-22-2009 Area: Trial Crop: ZEA MAYS Var: DKC 60-18 % Germination: 90.0

### CROP OCCURRENCE

	1.
Date:	5-22-2009
Area:	Trial
Crop:	CORN
Crop Code:	ZEAMX
BBCH Scale:	BCOR
Variety:	DKC 60-18
Planting Date:	5-22-2009
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 P/A
Method:	DIRECT DRILLED

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PEST OCCURRENCE					
	1.	2.	3.	4.	5.
<b>Date:</b>	6-14-2009	6-14-2009	6-14-2009	6-14-2009	6-14-2009
<b>Area:</b>	Trial	Trial	Trial	Trial	Trial
<b>Pest:</b>	AMBROSIA TRIFIDA	IPOMOEA SP.	SETARIA FABERI	CYPERUS ESCULENTUS	SIDA ALBA
<b>Pest Code:</b>	AMBTR	IPOSS	SETFA	CYPES	SIDSP
<b>Stage Scale:</b>	BBCH	BBCH	BGRM	BBCH	BBCH
<b>OCCURRENCE TYPE:</b>	OCCURRED	OCCURRED	OCCURRED	OCCURRED	OCCURRED

  

	6.	7.	8.
<b>Date:</b>	6-14-2009	6-14-2009	6-14-2009
<b>Area:</b>	Trial	Trial	Trial
<b>Pest:</b>	ABUTILON THEOPHRASTI	CHENOPODIUM ALBUM	AMARANTHUS RETROFLEXUS
<b>Pest Code:</b>	ABUTH	CHEAL	AMARE
<b>Stage Scale:</b>	BBCH	BBCH	BDWE
<b>OCCURRENCE TYPE:</b>	OCCURRED	OCCURRED	OCCURRED

CROP DEVELOPMENT					
	1.	2.	3.	4.	5.
<b>Date:</b>	5-22-2009	6-14-2009	6-9-2009	8-12-2009	11-13-2009
<b>Crop:</b>	1 CORN	1 CORN	1 CORN	1 CORN	1 CORN
<b>Crop Code:</b>	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
<b>BBCH Scale:</b>	BCOR	BCOR	BCOR	BCOR	BCOR
<b>Variety:</b>	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18
<b>Dev. Stage Min, Max:</b>	00 00	13 14	13 13	73 73	99 99
<b>Height Min, Max, Unit:</b>		12.0 18.0 IN		10.0 10.0 FT	
<b>Tree/Crop Row Volume Information</b>					
<b>Height Total (m):</b>		0.38		3.05	

PEST DEVELOPMENT				
	1.	2.	3.	4.
<b>Date:</b>	6-14-2009	6-14-2009	6-14-2009	6-14-2009
<b>Pest:</b>	1 AMBROSIA TRIFIDA	2 IPOMOEA SP.	3 SETARIA FABERI	4 CYPERUS ESCULENTUS
<b>Pest Code:</b>	AMBTR	IPOSS	SETFA	CYPES
<b>Stage Scale:</b>	BBCH	BBCH	BGRM	BBCH
<b>Dev. Stage Min, Max:</b>	10 10	10 11	11 13	08 19
<b>Density Min, Max, Majority:</b>	1.0 6.0	0.0 1.0	10.0 30.0	0.0 1.0
<b>Unit:</b>	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD
<b>Height Min, Max, Unit:</b>	0.0 8.0 IN	0.0 2.0 IN	0.0 6.0 IN	0.0 4.0 IN
<b>Natural Incidence:</b>	Y	Y	Y	Y

  

	5.	6.	7.
<b>Date:</b>	6-14-2009	6-14-2009	6-14-2009
<b>Pest:</b>	5 SIDA ALBA	6 ABUTILON THEOPHRASTI	7 CHENOPODIUM ALBUM
<b>Pest Code:</b>	SIDSP	ABUTH	CHEAL
<b>Stage Scale:</b>	BBCH	BBCH	BBCH
<b>Dev. Stage Min, Max:</b>	09 14	10 13	10 42
<b>Density Min, Max, Majority:</b>	1.0 2.0	0.0 3.0	0.0 5.0
<b>Unit:</b>	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD
<b>Height Min, Max, Unit:</b>	0.0 3.0 IN	0.0 3.0 IN	0.0 2.0 IN
<b>Natural Incidence:</b>	Y	Y	Y

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	8.	9.	10.	11.
<b>Date:</b>	6-14-2009	6-9-2009	6-9-2009	6-15-2009
<b>Pest:</b>	8 AMARANTHUS RETROFLEXUS	1 AMBROSIA TRIFIDA	3 SETARIA FABERI	1 AMBROSIA TRIFIDA
<b>Pest Code:</b>	AMARE	AMBTR	SETFA	AMBTR
<b>Stage Scale:</b>	BDWE	BBCH	BGRM	BBCH
<b>Dev. Stage Min, Max:</b>	10 34			
<b>Density Min, Max, Majority:</b>	0.0 2.0	1.0 5.0	10.0 30.0	1.0 10.0
<b>Unit:</b>	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE FOOT	PER SQUARE YARD
<b>Height Min, Max, Unit:</b>	0.0 4.0 IN	0.5 4.0 IN	0.5 3.0 IN	1.0 10.0 IN
<b>Natural Incidence:</b>	Y	Y	Y	Y

	12.	13.	14.	15.
<b>Date:</b>	6-15-2009	6-15-2009	8-12-2009	8-12-2009
<b>Pest:</b>	3 SETARIA FABERI	6 ABUTILON THEOPHRASTI	3 SETARIA FABERI	1 AMBROSIA TRIFIDA
<b>Pest Code:</b>	SETFA	ABUTH	SETFA	AMBTR
<b>Stage Scale:</b>	BGRM	BBCH	BGRM	BBCH
<b>Dev. Stage Min, Max:</b>				
<b>Density Min, Max, Majority:</b>	10.0 30.0	1.0 3.0	10.0 40.0	1.0 5.0
<b>Unit:</b>	PER SQUARE FOOT	PER SQUARE YARD	PER SQUARE YARD	PER SQUARE YARD
<b>Height Min, Max, Unit:</b>	1.0 6.0 IN	0.0 2.0 IN	36.0 60.0 IN	24.0 120.0 IN
<b>Natural Incidence:</b>	Y	Y	Y	Y

	16.
<b>Date:</b>	8-12-2009
<b>Pest:</b>	6 ABUTILON THEOPHRASTI
<b>Pest Code:</b>	ABUTH
<b>Stage Scale:</b>	BBCH
<b>Dev. Stage Min, Max:</b>	
<b>Density Min, Max, Majority:</b>	1.0 3.0
<b>Unit:</b>	PER SQUARE YARD
<b>Height Min, Max, Unit:</b>	6.0 60.0 IN
<b>Natural Incidence:</b>	Y

**WEATHER DESCRIPTION**

1. **Date:** 5-22-2009 **Air Temp. Min:** 85.0 **Max:** 85.0 **Unit:** F **% Rel. Humidity Min:** 26.0 **Max:** 26.0  
**Wind Velocity Min:** 6.0 **Max:** 6.0 **Unit:** MPH **Wind Direction:** W  
**Sky Condition:** 60% CLOUD COVER
2. **Date:** 6-14-2009 **Air Temp. Min:** 71.0 **Max:** 71.0 **Unit:** F **% Rel. Humidity Min:** 68.0 **Max:** 68.0  
**Wind Velocity Min:** 5.0 **Max:** 5.0 **Unit:** MPH **Wind Direction:** W  
**Sky Condition:** 80% CLOUD COVER

No.	Date	Soil Temp.	Unit
1.	5-22-2009	78.0	F
2.	6-14-2009	70.0	F

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APPLICATION	A	B
<b>Application Date/Time:</b>	5-22-2009 4:50 PM	6-14-2009 10:30 AM
<b>Applied By:</b>	RH	PM
<b>Target (Crop):</b>	1 ZEAMX	1 ZEAMX
<b>Variety (Crop):</b>	DKC 60-18	DKC 60-18
<b>Development (Crop):</b>	00 00	00 00
<b>Weather:</b>	1	2
<b>Soil:</b>	1	2
<b>Equipment Name:</b>	Backpack	Backpack
<b>Application Equipment:</b>	BACSPR	BACSPR
<b>Pressure, Unit:</b>	17.0 PSI	17.0 PSI
<b>Nozzle Type:</b>	FLAFAN	FLAFAN
<b>Nozzle Description:</b>	XR11002	XR11002
<b>Nozzle Spacing, Unit:</b>	15.0 IN	15.0 IN
<b>Nozzles/Row:</b>	1.0	1.0
<b>Band Width, Unit:</b>	15.0 IN	15.0 IN
<b>Boom Length, Unit:</b>	10.0 FT	10.0 FT
<b>Boom Height, Unit:</b>	18.0 IN	18.0 IN
<b>Ground Speed, Unit:</b>	3.0 MPH	3.0 MPH
<b>Spray Volume, Unit:</b>	15.0 GPA	15.0 GPA
<b>Mix Size, Unit:</b>	1.8 L	1.8
<b>Dew Presence (Y/N):</b>	N	N
<b>Application Timing:</b>	PREPLA	LAPOCR
<b>Applic. Placement:</b>	BROSOI	BROFOL

No.	Date	Area	Laboratory Name	pH/KCL	pH/H2O	CEC	Soil Texture
1.	5-22-2009	Trial	Toronto Millbrook	6.2	13.3		SILT LOAM
		<b>Soil Component:</b>					<b>% Organic Matter: 2.9</b>
		<b>Soil Element:</b>		<b>P: 34.0</b>	<b>PPM</b>	<b>K: 124.0</b>	<b>PPM</b>
						<b>Ca: 1400.0</b>	<b>PPM</b>
							<b>Mg: 430.0</b>
							<b>PPM</b>

**INOCULATION/INFESTATION**  
1.

Code	Crop Occurrence Comment
1	
<b>Code</b>	<b>Comment</b>
1.	A No treatment put down in plot 901 (treatment was accidentally put on another trial)
<b>Code</b>	<b>Comment</b>
1.	

Area Name	Treatment Numbers in Area
1.	

**INSTRUCTIONS**  
**CROPS:** CORN  
**TARGETS:** ABUTH,AMATA,AMBEL,AMBTR,CHEAL,SETFA,SETVI,DIGSA

**OBJECTIVE:**  
 1. Compare foundation rates of Lumax or Lexar, to Corvus, Integrity, Balance Flexx and Surestart for efficacy and yield in glyphosate tolerant corn.

**CRITICAL PROTOCOL TASKS:**  
 Would prefer this trial to go to T-PAC, but ACRE would be OK if you can get giant ragweed pressure there as it is the primary target.  
 If possible, stand alone trial would be ideal.

**EXPERIMENTAL DESIGN AND PLOT DIMENSIONS:**  
 RCBD with 3 replicates; plot dimensions 10ft x 30ft.

**TREATMENT DETAILS:**  
 Make applications in 10-20 GPA.  
 Make POST applications to 2-4" weeds or before corn reaches V8.

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For the following products, please select the rate from the tables below based on your soil type:

<3%OM >3%OM  
Lumax: 1.75 qt 2 qt

Lexar: 2 qt 2.25 qt

	<1.5%OM	>1.5%OM
Balance FLEXX	C 2	3.3
(fl oz/A)	M 3.3	4
	F 4	4

Integrity	Target rate
(fl oz/A)	
C	10
M	13
F	17

Corvus <2%OM >2%OM  
(fl oz/A) 2.5 3.3

Surestart	Target rate
(qt/A)	
C	1.5
M	1.75
F	2.0

**ASSESSMENT DETAILS:**

Weed Control Assessments: 14-21 DAT, before POST application, and 56 DAT.

Please collect yield and adjust to 15.5% moisture.

Please take photographs of weed control and/or crop response differences among treatments.

REPORT DATA BY: 10/1/2009

OTHER NOTES:

**Assessment Tasks**

No.	Timing ID	SE Name	SE Description	Part Assess	Assess Data Type	Assess Unit	Samples per 1 Collect. basis	Sample Unit	Coll. Basis	Basis Unit	Reporting Basis	Reporting Basis Unit	Asmt Type	Asmt Sub Type	Calc Type	Scale Type	Scale Min	Scale Max
1.	2	ZUSW001	%Control	PLAN T	CONTR O	%	1.0	PLOT	1.0	PLOT	1.0	PLOT	NO R	RAW	NC	S	0	100
2.	3	ZNL019_C4	Yield Maize	GRAI N	YIELD	BU		FT2	1.0	PLOT	1.0	ACRE	CA L	YLR	IN	O		
			Moisture	GRAI N	CONM OI	%	1.0	PLOT	1.0	PLOT	1.0	PLOT	NO R	RAW	NC	O		
				GRAI N	WEIGH T	LB		FT2	1.0	PLOT		FT2	NO R	RAW	IN	O		

No.	Timing ID
1.	2
2.	3

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Country: UNITED STATES OF AMERICA Region: NJ Trial Use: Normal  
 Discipline: HERBICIDE Sequence: 001 Year: 2009  
 Trial Id.: USNJ0H0012009 Protocol Id.: HRDL02A4-2009US Revision Date: Feb 23  
 Master Protocol Id.:

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

Title: Lumax, Lexar vs New Competitors at Foundation Rates

Assessment Date	6-9-2009 12:00 AM	6-9-2009 12:00 AM	6-15-2009 12:00 AM
Assessed By	AR	AR	AR
Crop Code	3 ZEAMX	3 ZEAMX	2 ZEAMX
Crop Variety	DKC 60-18	DKC 60-18	DKC 60-18
Crop Development	13 13	13 13	13 14
Pest Code	9 AMBTR	10 SETFA	11 AMBTR
SE Group No.	1	1	1
Assessment Data Type	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%
Samples per 1 Collect. Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT
Reporting Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW
Number of Subsamples	1	1	1
ARM Action Codes			
Days After Planting	18DAP-1	18DAP-1	24DAP-1
Days After Last Application	18	18	1
No. Decimals Reported			
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code
1 UNTREATED CHECK			
2 LUMAX 3.94 SE	2200.0 gai/ha	A	
AMMONIUM SULFATE SG	1.0 %w/v	B	
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B	
3 LEXAR 3.7 SE	2340.0 gai/ha	A	
AMMONIUM SULFATE SG	1.0 %w/v	B	
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B	
4 CORVUS 2.63 SC	76.0 gai/ha	A	
AMMONIUM SULFATE SG	1.0 %w/v	B	
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B	
5 BALANCE FLEXX	58.5 gai/ha	A	
AMMONIUM SULFATE SG	1.0 %w/v	B	
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B	
6 INTEGRITY	635.0 gai/ha	A	
AMMONIUM SULFATE SG	1.0 %w/v	B	
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B	
7 SURESTART	1040.0 gai/ha	A	
AMMONIUM SULFATE SG	1.0 %w/v	B	
DURANGO 4 SL (AE)	880.0 gae/ha	B	
LSD (P=.05)	8.22	13.24	17.33
Standard Deviation	5.53	8.91	11.67
CV	6.84	11.56	15.21
Bartlett's X2	2.883	10.996	9.769
P(Bartlett's X2)	0.718	0.051	0.082
Replicate F	6.656	0.229	1.058
Replicate Prob(F)	0.0032	0.8746	0.3915
Treatment F	166.499	60.397	34.471
Treatment Prob(F)	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Assessment Date	6-15-2009 12:00 AM	6-15-2009 12:00 AM	8-12-2009 12:00 AM
Assessed By	AR	AR	RT/CB
Crop Code	2 ZEAMX	2 ZEAMX	4 ZEAMX
Crop Variety	DKC 60-18	DKC 60-18	DKC 60-18
Crop Development	13 14	13 14	73 73
Pest Code	12 SETFA	13 ABUTH	14 SETFA
SE Group No.	1	1	2
Assessment Data Type	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%
Samples per 1 Collect. Basis, Unit			
Reporting Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW
Number of Subsamples	1	1	1
ARM Action Codes			
Days After Planting	24DAP-1	24DAP-1	82DAP-1
Days After Last Application	1	1	59
No. Decimals Reported			
Trt Treatment/Product Name	Product/Al Rate	Product/Al Rate Unit	Applic. Code
	4	5	6
1 UNTREATED CHECK		0.0 b	0.0 b
2 LUMAX 3.94 SE	2200.0 gai/ha	A	
AMMONIUM SULFATE SG	1.0 %w/v	B	
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B	
3 LEXAR 3.7 SE	2340.0 gai/ha	A	
AMMONIUM SULFATE SG	1.0 %w/v	B	
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B	
4 CORVUS 2.63 SC	76.0 gai/ha	A	
AMMONIUM SULFATE SG	1.0 %w/v	B	
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B	
5 BALANCE FLEXX	58.5 gai/ha	A	
AMMONIUM SULFATE SG	1.0 %w/v	B	
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B	
6 INTEGRITY	635.0 gai/ha	A	
AMMONIUM SULFATE SG	1.0 %w/v	B	
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B	
7 SURESTART	1040.0 gai/ha	A	
AMMONIUM SULFATE SG	1.0 %w/v	B	
DURANGO 4 SL (AE)	880.0 gae/ha	B	
LSD (P=.05)	19.69	11.82	1.97
Standard Deviation	13.25	7.95	1.33
CV	17.49	9.57	1.58
Bartlett's X2	19.14	1.014	5.838
P(Bartlett's X2)	0.002*	0.314	0.322
Replicate F	0.538	0.886	1.679
Replicate Prob(F)	0.6623	0.4672	0.2070
Treatment F	26.373	86.450	3108.116
Treatment Prob(F)	0.0001	0.0001	0.0001

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Assessment Date	8-12-2009 12:00 AM		8-12-2009 12:00 AM	11-13-2009 12:00 AM
Assessed By	RT/CB		RT/CB	PM
Crop Code	4 ZEAMX		4 ZEAMX	5 ZEAMX
Crop Variety	DKC 60-18		DKC 60-18	DKC 60-18
Crop Development	73 73		73 73	99 99
Pest Code	15 AMBTR		16 ABUTH	
SE Group No.	3		4	5
Assessment Data Type	CONTRO		CONTRO	YIELD
Assessment Unit	%		%	LB
Samples per 1 Collect. Basis, Unit	1.0 PLOT		1.0 PLOT	
Reporting Basis, Unit	NOR RAW		NOR RAW	NOR RAW
Assessment Type, Sub-Type	1		1	1
Number of Subsamples	1		1	1
ARM Action Codes	82DAP-1		82DAP-1	175DAP-1
Days After Planting	59		59	152
Days After Last Application	59		59	152
No. Decimals Reported	59		59	152
Trt Treatment/Product Name	Product/AI Rate	Product/AI Rate Unit	Applic. Code	
				7 8 9
1 UNTREATED CHECK				0.0 b 0.0 b 67.20 a
2 LUMAX 3.94 SE	2200.0 gai/ha	A		100.0 a 100.0 a 82.78 a
AMMONIUM SULFATE SG	1.0 %w/v	B		
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B		
3 LEXAR 3.7 SE	2340.0 gai/ha	A		99.8 a 100.0 a 77.40 a
AMMONIUM SULFATE SG	1.0 %w/v	B		
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B		
4 CORVUS 2.63 SC	76.0 gai/ha	A		99.3 a 100.0 a 84.90 a
AMMONIUM SULFATE SG	1.0 %w/v	B		
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B		
5 BALANCE FLEXX	58.5 gai/ha	A		99.5 a 99.5 a 85.85 a
AMMONIUM SULFATE SG	1.0 %w/v	B		
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B		
6 INTEGRITY	635.0 gai/ha	A		100.0 a 100.0 a 87.25 a
AMMONIUM SULFATE SG	1.0 %w/v	B		
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B		
7 SURESTART	1040.0 gai/ha	A		98.8 a 100.0 a 77.98 a
AMMONIUM SULFATE SG	1.0 %w/v	B		
DURANGO 4 SL (AE)	880.0 gae/ha	B		
LSD (P=.05)				1.85 0.56 13.057
Standard Deviation				1.25 0.38 8.789
CV				1.46 0.44 10.92
Bartlett's X2				6.531 0.0 24.482
P(Bartlett's X2)				0.088 . 0.001*
Replicate F				0.268 1.000 1.324
Replicate Prob(F)				0.8477 0.4155 0.2976
Treatment F				3640.378 39934.336 2.517
Treatment Prob(F)				0.0001 0.0001 0.0602

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Assessment Date	11-13-2009 12:00 AM		
Assessed By	PM		
Crop Code	5 ZEAMX		
Crop Variety	DKC 60-18		
Crop Development	99 99		
Pest Code			
SE Group No.	6		
Assessment Data Type	YIELD		
Assessment Unit	BU		
Samples per 1 Collect. Basis, Unit			
Reporting Basis, Unit			
Assessment Type, Sub-Type	YLD YLR		
Number of Subsamples	1		
ARM Action Codes	TY1		
Days After Planting	175DAP-1		
Days After Last Application	152		
No. Decimals Reported	1		
Trt Treatment/Product Name	Product/AI Rate	Product/AI Unit	Applic. Code
			10
1 UNTREATED CHECK			202.9 a
2 LUMAX 3.94 SE	2200.0 gai/ha	A	249.9 a
AMMONIUM SULFATE SG	1.0 %w/v	B	
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B	
3 LEXAR 3.7 SE	2340.0 gai/ha	A	233.7 a
AMMONIUM SULFATE SG	1.0 %w/v	B	
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B	
4 CORVUS 2.63 SC	76.0 gai/ha	A	256.3 a
AMMONIUM SULFATE SG	1.0 %w/v	B	
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B	
5 BALANCE FLEXX	58.5 gai/ha	A	259.2 a
AMMONIUM SULFATE SG	1.0 %w/v	B	
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B	
6 INTEGRITY	635.0 gai/ha	A	263.4 a
AMMONIUM SULFATE SG	1.0 %w/v	B	
TOUCHDOWN TOTAL 4.17 SL	880.0 gae/ha	B	
7 SURESTART	1040.0 gai/ha	A	235.4 a
AMMONIUM SULFATE SG	1.0 %w/v	B	
DURANGO 4 SL (AE)	880.0 gae/ha	B	
LSD (P=.05)			39.42
Standard Deviation			26.54
CV			10.92
Bartlett's X2			24.481
P(Bartlett's X2)			0.001*
Replicate F			1.324
Replicate Prob(F)			0.2975
Treatment F			2.517
Treatment Prob(F)			0.0602

# Purdue University

Country: UNITED STATES OF AMERICA	Region: NJ	Trial Use: Normal	Year: 2009
Discipline: HERBICIDE	Sequence: 001	Protocol Id.: HRDL02A4-2009US	Revision Date: Feb 23
Trial Id.: USNJ0H0012009	Master Protocol Id.:		

Trial Origin: COOPERATOR TRIAL

Licensee: Dr. Bill Johnson

GEP: N

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 Title: Lumax, Lexar vs New Competitors at Foundation Rates

T94, T18, 3, ZEAMX, DKC 60-18, 13, 13 = 1  
 T91, T18, 2, ZEAMX, DKC 60-18, 13, 14 = 1  
 T111, T18, 4, ZEAMX, DKC 60-18, 73, 73 = 1  
 T310, T18, 5, ZEAMX, DKC 60-18, 99, 99 = 1

T103, T29, 9, AMBTR, , , = 1  
 T104, T35, 10, SETFA, , , = 3  
 T105, T29, 11, AMBTR, , , = 1  
 T106, T35, 12, SETFA, , , = 3  
 T107, T83, 13, ABUTH, , , = 6  
 T108, T35, 14, SETFA, , , = 3  
 T109, T29, 15, AMBTR, , , = 1  
 T112, T83, 16, ABUTH, , , = 6

5260, CONTRO = CONTROL  
 5353, YIELD = YIELD

1221, % = PERCENT  
 1230, LB = POUND

9719, PLOT = PLOT

9719, PLOT = PLOT

Assessment Type, Sub-Type

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

ARM Action Codes

TY1 = 3.019374\*9

Days After Planting

18DAP-1 = 1 5-22-2009  
 24DAP-1 = 1 5-22-2009  
 82DAP-1 = 1 5-22-2009  
 175DAP-1 = 1 5-22-2009