

# Purdue University

## Roundup Ready Corn 2 Weed Control System - Academic

Trial ID: 05-SEPAC-CORN-SOILAPP  
Location: SEPAC

Study Dir.: Vince Davis  
Investigator: Dr. William G. Johnson

### GENERAL TRIAL INFORMATION

**Study Director:** Vince Davis **Title:** Research Associate  
**Affiliation:** Purdue University  
**Postal Code:** 47907  
**Investigator:** Dr. William G. Johnson **Title:** Associate Professor  
**Affiliation:** Purdue University  
**Postal Code:** 47907

### TRIAL LOCATION

**City:** Butlerville  
**State/Prov.:** IN  
**Postal Code:** 47223  
**Country:** USA  
**Unit:** feet  
**Directions:** On the east side of field U41.

### COOPERATOR/LANDOWNER

**Cooperator:** Southeast Purdue Ag Center **Country:** USA  
**Address 1:** 4425 E Co Rd 350 N **Phone No:** 812-458-6977  
**Address 2:** PO Box 216 **Fax No:** 812-458-6979  
**City:** Butlerville  
**State/Prov:** IN  
**Postal Code:** 47223

**Conducted Under GLP (Y/N):** N **Conducted Under GEP (Y/N):** N

**Objective:** The objective of this study is to evaluate the RR II corn weed control system.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	XANST	Xanthium strumarium	Broad cocklebur
2.	TAROF	Taraxacum officinale	Common dandelion
3.	CYPES	Cyperus esculentus	Edible cyperus
4.	AMBSS	Ambrosia sp.	Ragweed

**Crop 1:** ZEAMX CORN, FIELD  
**Planting Date:** 9/May/2005 **Planting Method:** planted  
**Rate:** 27000 S/A **Depth:** 1 IN  
**Row Spacing:** 30 IN  
**Soil Temperature:** 67 F **Soil Moisture:** NORMAL

### SITE AND DESIGN

**Plot Width, Unit:** 10 FT **Plot Length, Unit:** 30 FT **Reps:** 4  
**Site Type:** FIELD  
**Tillage Type:** CONVENTIONAL-TILL **Study Design:** RANDOMIZED COMPLETE BLOCK

### SOIL DESCRIPTION

**% OM:** 1.4 **Texture:** Silt Loam  
**pH:** 6.0 **Soil Name:** Avonburg  
**CEC:** 5.0 **Fert. Level:** P - 15 ppm, K - 95 ppm

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## MOISTURE CONDITIONS

Closest Weather Station: Located at SEPAC

Distance: 0.5 Unit: MI

### APPLICATION DESCRIPTION

	A	B	C
Application Date:	10/May/2005	31/May/2005	16/Jun/2005
Time of Day:	950-1010a	830am	1030-1045
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EAPOWE	POSPOS-A
Applic. Placement:	BROSOI	BROFOL	BROFOL
Air Temp., Unit:	71 F	67 F	74 F
% Relative Humidity:	53.8		37
Wind Velocity, Unit:	3 MPH	0 MPH	2.5 MPH
Soil Temp., Unit:	63 F	68 F	72 F
Soil Moisture:	Drysurf	WET	MOIST
% Cloud Cover:	100	0	10

### CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX	ZEAMX	ZEAMX
Stage Scale:	Justplant	V3	V7
Height, Unit:		4 IN	24 IN

### WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	XANST	XANST COT-4LF	XANST 2-6LVES
Stage Scale:		1-3"	1-7"
Density, Unit:		130 YD2	80 YD2
Weed 2 Code, Stage:	TAROF	TAROF 1-5LVES	TAROF
Stage Scale:		.5"	
Density, Unit:		30 YD2	
Weed 3 Code, Stage:	CYPES	CYPES 3LVES	CYPES 2-6LVES
Stage Scale:		2"	2-3"
Density, Unit:		15 YD2	15 YD2
Weed 4 Code, Stage:	AMBSS	AMBSS	AMBSS 5-7LVES
Stage Scale:			3-5"
Density, Unit:			5 YD2

### APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	Backpack	Backpack	Backpack
Operating Pressure:	27-28	27-28	27-28
Nozzle Type:	XRVS	XRVS	XRVS
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT	10 FT
Boom Height, Unit:	20 IN	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	water	water	water
Spray Volume, Unit:	15 gpa	15 gpa	15 gpa
Propellant:	CO2	CO2	CO2

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## Roundup Ready Corn 2 Weed Control System - Academic

Trial ID: 05-SEPAC-CORN-SOILAPP  
 Location: SEPAC

Study Dir.: Vince Davis  
 Investigator: Dr. William G. Johnson

										ZEAMX	ZEAMX	ZEAMX	ZEAMX	XANST
										Bleach C	#plant C	Bleach C	INJ C	PLAQUA P
										1-100	1-100	1-100	1-100	1-100
										%	%	%	%	%
										24/May/2005	24/May/2005	14/Jun/2005	14/Jun/2005	14/Jun/2005
										VC	VC	V6	V6	
										2-3"	2-3"	20"	20"	
														3-8"
														5-25YD2
										RD,VD,VM	RD,VD,VM	VD,VM	VD,VM	VD,VM
										2 2	2 2	1 1	1 1	1 1
Trt	Treatment	Rate	Product	Product	Grow	Appl	Plot			1	2	3	4	5
No.	Name	Rate	Unit	Rate	Unit	Stg	Code	Plot						
1	Untreated Check							101	0.00	14.50	0.0	0.0	0.0	
								407	0.00	13.50	0.0	0.0	0.0	
								607	0.00	13.50	0.0	0.0	0.0	
								708	0.00	14.50	0.0	0.0	0.0	
								Mean =	0.00	14.00	0.0	0.0	0.0	
2	Lumax	2.47	lb ai/a	2.5	qt/a	PREPRE	A	102	0.00	14.00	0.0	0.0	85.0	
	Atrazine	1.38	lb ai/a	1.375	qt/a	PREPRE	A	404	0.00	12.00	0.0	0.0	70.0	
								508	0.00	13.00	0.0	0.0	95.0	
								703	0.50	13.50	0.0	0.0	85.0	
								Mean =	0.13	13.13	0.0	0.0	83.8	
3	Radius	0.656	lb ai/a	21	oz/a	PREPRE	A	103	0.00	13.00	0.0	25.0	90.0	
	Atrazine	2	lb ai/a	2	qt/a	PREPRE	A	405	0.50	14.00	0.0	20.0	80.0	
								604	4.00	14.50	0.0	25.0	75.0	
								705	0.00	11.50	0.0	15.0	70.0	
								Mean =	1.13	13.25	0.0	21.3	78.8	
4	Harness Xtra 5.6	2.1	lb ai/a	1.5	qt/a	PREPRE	A	104	0.00	14.50	0.0	0.0	85.0	
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	POSPOS	C	402	0.00	11.00	0.0	0.0	0.0	
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C	606	0.00	13.50	0.0	10.0	90.0	
								807	0.00	14.00	0.0	0.0	20.0	
								Mean =	0.00	13.25	0.0	2.5	48.8	
5	Degree Xtra	2.02	lb ai/a	2	qt/a	PREPRE	A	105	0.00	14.50	0.0	0.0	85.0	
	Atrazine	0.27	lb ai/a	0.27	qt/a	PREPRE	A	406	0.00	15.50	0.0	5.0	80.0	
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	POSPOS	C	501	0.00	14.00	0.0	0.0	40.0	
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C	803	0.00	14.00	5.0	10.0	50.0	
								Mean =	0.00	14.50	1.3	3.8	63.8	
6	Degree Xtra	2.02	lb ai/a	2	qt/a	EAPOWE	B	106			0.0	0.0	95.0	
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	EAPOWE	B	301			0.0	0.0	95.0	
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	601			0.0	0.0	85.0	
								805			0.0	5.0	90.0	
								Mean =	.	.	0.0	1.3	91.3	
7	Lumax	1.98	lb ai/a	2	qt/a	EAPOWE	B	107			0.0	0.0	97.0	
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B	307			0.0	0.0	97.0	
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	608			0.0	0.0	95.0	
								808			0.0	0.0	80.0	
								Mean =	.	.	0.0	0.0	92.3	
8	Lexar	2.78	lb ai/a	3	qt/a	EAPOWE	B	108			5.0	5.0	97.0	
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B	302			0.0	0.0	95.0	
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	605			0.0	0.0	95.0	
								702			0.0	0.0	95.0	
								Mean =	.	.	1.3	1.3	95.5	

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									ZEAMX	ZEAMX	ZEAMX	ZEAMX	XANST
									Bleach C	#plant C	Bleach C	INJ C	PLAQUA P
									1-100	1-100	1-100	1-100	1-100
									%	%	%	%	%
									24/May/2005	24/May/2005	14/Jun/2005	14/Jun/2005	14/Jun/2005
									VC	VC	V6	V6	
									2-3"	2-3"	20"	20"	
													3-8"
													5-25YD2
									RD,VD,VM	RD,VD,VM	VD,VM	VD,VM	VD,VM
									2 2	2 2	1 1	1 1	1 1
Trt No.	Treatment Name	Rate	Product Unit	Product Rate	Product Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5
9	Lumax	2.47	lb ai/a	2.5	qt/a	EAPOWE	B	201			0.0	0.0	90.0
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B	303			0.0	5.0	90.0
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	602			5.0	5.0	90.0
								707			0.0	0.0	90.0
								Mean =			1.3	2.5	90.0
10	Lexar	2.16	lb ai/a	2.33	qt/a	EAPOWE	B	202			0.0	0.0	95.0
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B	304			0.0	0.0	97.0
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	503			5.0	5.0	95.0
								801			0.0	0.0	85.0
								Mean =			1.3	1.3	93.0
11	Lexar	2.78	lb ai/a	3	qt/a	PREPRE	A	203	0.00	15.00	0.0	5.0	95.0
	Atrazine	0.7	lb ai/a	0.7	qt/a	PREPRE	A	403	0.00	12.50	0.0	5.0	80.0
								504	0.00	14.50	0.0	0.0	95.0
								704	0.00	13.50	0.0	0.0	95.0
								Mean =	0.00	13.88	0.0	2.5	91.3
12	Harness Xtra 5.6	3.22	lb ai/a	2.3	qt/a	PREPRE	A	204	0.00	14.00	0.0	0.0	95.0
	Atrazine	0.5	lb ai/a	0.5	qt/a	PREPRE	A	408	0.00	14.00	0.0	0.0	88.0
								603	0.00	12.00	0.0	5.0	80.0
								802	0.00	11.00	0.0	0.0	20.0
								Mean =	0.00	12.75	0.0	1.3	70.8
13	Degree Xtra	2.93	lb ai/a	2.9	qt/a	PREPRE	A	205	0.00	15.00	0.0	0.0	98.0
	Atrazine	1	lb ai/a	1	qt/a	PREPRE	A	308	0.00	13.50	0.0	0.0	95.0
								505	0.00	14.00	0.0	0.0	85.0
								806	0.00	15.00	0.0	0.0	75.0
								Mean =	0.00	14.38	0.0	0.0	88.3
14	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	PREPRE	A	206	0.00	16.00	0.0	0.0	95.0
	Atrazine	0.375	lb ai/a	0.375	qt/a	PREPRE	A	401	0.00	14.00	0.0	0.0	0.0
								506	0.00	14.50	0.0	0.0	95.0
								706	0.00	12.50	0.0	5.0	60.0
								Mean =	0.00	14.25	0.0	1.3	62.5
15	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	PREPRE	A	207	0.00	16.00	0.0	0.0	95.0
	Touchdown Total	0.78	lb ae/a	24	oz/a	POSPOS	C	306	0.00	15.50	0.0	5.0	97.0
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C	507	0.00	13.50	0.0	0.0	93.0
								804	0.00	13.00	0.0	0.0	50.0
								Mean =	0.00	14.50	0.0	1.3	83.8
16	Untreated check							208	0.00	13.50	0.0	0.0	0.0
								305	0.00	13.00	0.0	0.0	0.0
								502	0.00	12.00	0.0	0.0	0.0
								701	0.00	13.00	0.0	0.0	0.0
								Mean =	0.00	12.88	0.0	0.0	0.0

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Crop Code									CYPES	ZEAMX	ZEAMX	XANST	CYPES
Part Rated									PLAQUA P	Bleach C	INJ C	PLAQUA P	PLAQUA P
Rating Data Type									1-100	1-100	1-100	1-100	1-100
Rating Unit									%	%	%	%	%
Rating Date									14/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005
Crop Stage										V8	V8		
Crop Stage Scale										30-36"	30-36"		
Weed Stage									3-8"			1-24"	5-12"
Weed Density, Unit									5-25YD2			8-30YD2	5-25YD2
Footnote Number													
Assessed By									VD,VM	VD,VM	VD,VM	VD,VM	VD,VM
ARM Action Codes													
# Subsamples, Dec.													
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	6	7	8	9	10
1	Untreated Check							101	0	0	0	0	0
								407	0	0	0	0	0
								607	0	0	0	0	0
								708	0	0	0	0	0
								Mean =	0	0	0	0	0
2	Lumax	2.47	lb ai/a	2.5	qt/a	PREPRE	A	102	100	0	0	75	100
	Atrazine	1.38	lb ai/a	1.375	qt/a	PREPRE	A	404	95	0	0	20	100
								508	90	0	0	88	80
								703	80	0	5	75	75
								Mean =	91	0	1	65	89
3	Radius	0.656	lb ai/a	21	oz/a	PREPRE	A	103	80	0	15	83	70
	Atrazine	2	lb ai/a	2	qt/a	PREPRE	A	405	80	0	10	80	75
								604	30	0	5	65	50
								705	0	0	0	50	25
								Mean =	48	0	8	70	55
4	Harness Xtra 5.6	2.1	lb ai/a	1.5	qt/a	PREPRE	A	104	80	0	25	98	80
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	POSPOS	C	402	50	0	15	93	85
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C	606	60	0	5	95	70
								807	85	0	5	93	90
								Mean =	69	0	13	95	81
5	Degree Xtra	2.02	lb ai/a	2	qt/a	PREPRE	A	105	90	0	0	95	80
	Atrazine	0.27	lb ai/a	0.27	qt/a	PREPRE	A	406	30	0	10	97	25
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	POSPOS	C	501	0	0	10	95	25
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C	803	100	0	5	95	100
								Mean =	55	0	6	96	58
6	Degree Xtra	2.02	lb ai/a	2	qt/a	EAPOWE	B	106	100	0	0	93	100
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	EAPOWE	B	301	50	0	5	88	50
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	601	60	0	0	85	80
								805	90	0	5	95	95
								Mean =	75	0	3	90	81
7	Lumax	1.98	lb ai/a	2	qt/a	EAPOWE	B	107	100	0	0	95	100
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B	307	95	0	0	95	100
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	608	80	0	0	80	70
								808	80	0	0	90	90
								Mean =	89	0	0	90	90
8	Lexar	2.78	lb ai/a	3	qt/a	EAPOWE	B	108	80	0	5	97	100
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B	302	95	0	0	95	100
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	605	80	0	0	95	80
								702	95	0	0	95	100
								Mean =	88	0	1	96	95
9	Lumax	2.47	lb ai/a	2.5	qt/a	EAPOWE	B	201	80	0	5	90	80
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B	303	70	0	5	85	80
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	602	80	0	0	80	85
								707	70	0	0	95	85
								Mean =	75	0	3	88	83

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Crop Code									CYPES	ZEAMX	ZEAMX	XANST	CYPES
Part Rated									PLAQUA P	Bleach C	INJ C	PLAQUA P	PLAQUA P
Rating Data Type									1-100	1-100	1-100	1-100	1-100
Rating Unit									%	%	%	%	%
Rating Date									14/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005
Crop Stage										V8	V8		
Crop Stage Scale										30-36"	30-36"		
Weed Stage									3-8"			1-24"	5-12"
Weed Density, Unit									5-25YD2			8-30YD2	5-25YD2
Footnote Number													
Assessed By									VD,VM	VD,VM	VD,VM	VD,VM	VD,VM
ARM Action Codes													
# Subsamples, Dec.													
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	6	7	8	9	10
10	Lexar	2.16	lb ai/a	2.33	qt/a	EAPOWE	B	202	80	0	5	95	90
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B	304	80	0	0	90	80
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	503	75	0	0	88	50
								801	100	0	0	93	100
								Mean =	84	0	1	92	80
11	Lexar	2.78	lb ai/a	3	qt/a	PREPRE	A	203	90	0	10	88	82
	Atrazine	0.7	lb ai/a	0.7	qt/a	PREPRE	A	403	95	5	5	75	90
								504	85	0	0	95	50
								704	90	0	0	80	100
								Mean =	90	1	4	85	81
12	Harness Xtra 5.6	3.22	lb ai/a	2.3	qt/a	PREPRE	A	204	90	0	5	90	85
	Atrazine	0.5	lb ai/a	0.5	qt/a	PREPRE	A	408	60	0	10	78	50
								603	50	0	10	60	60
								802	100	0	10	25	100
								Mean =	75	0	9	63	74
13	Degree Xtra	2.93	lb ai/a	2.9	qt/a	PREPRE	A	205	80	0	0	93	70
	Atrazine	1	lb ai/a	1	qt/a	PREPRE	A	308	90	0	10	90	80
								505	75	0	5	65	50
								806	100	0	0	75	95
								Mean =	86	0	4	81	74
14	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	PREPRE	A	206	100	0	5	95	100
	Atrazine	0.375	lb ai/a	0.375	qt/a	PREPRE	A	401	80	0	10	0	80
								506	80	0	0	85	65
								706	80	5	5	50	80
								Mean =	85	1	5	58	81
15	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	PREPRE	A	207	100	0	10	98	100
	Touchdown Total	0.78	lb ae/a	24	oz/a	POSPOS	C	306	95	0	0	95	100
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C	507	90	0	0	95	80
								804	100	0	10	95	100
								Mean =	96	0	5	96	95
16	Untreated check							208	0	0	0	0	0
								305	0	0	0	0	0
								502	0	0	0	0	0
								701	0	0	0	0	0
								Mean =	0	0	0	0	0

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Crop Code									AMBEL	ZEAMX	XANST	CYPES	AMBEL
Part Rated									PLAQUA P	INJ C	PLAQUA P	PLAQUA P	PLAQUA P
Rating Data Type									1-100	1-100	1-100	1-100	1-100
Rating Unit									%	%	%	%	%
Rating Date									23/Jun/2005	30/Jun/2005	30/Jun/2005	30/Jun/2005	30/Jun/2005
Crop Stage										V10			
Crop Stage Scale										48-60"			
Weed Stage									4-18"		6-32"	6-18"	6-30"
Weed Density, Unit									1-8 YD2		8-30YD2	5-25YD2	8 YD2
Footnote Number													
Assessed By									VD,VM	VD	VD	VD	VD
ARM Action Codes													
# Subsamples, Dec.													
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	11	12	13	14	15
1	Untreated Check							101	0	0	0	0	0
								407	0	0	0	0	0
								607	0	0	0	0	0
								708	0	0	0	0	0
								Mean =	0	0	0	0	0
2	Lumax	2.47	lb ai/a	2.5	qt/a	PREPRE	A	102	100	25	65	100	100
	Atrazine	1.38	lb ai/a	1.375	qt/a	PREPRE	A	404	100	5	80	75	100
								508	100	0	95	75	100
								703	100	5	80	75	100
								Mean =	100	9	80	81	100
3	Radius	0.656	lb ai/a	21	oz/a	PREPRE	A	103	100	50	88	75	100
	Atrazine	2	lb ai/a	2	qt/a	PREPRE	A	405	100	5	95	75	100
								604	100	20	75	25	100
								705	100	10	75	25	100
								Mean =	100	21	83	50	100
4	Harness Xtra 5.6	2.1	lb ai/a	1.5	qt/a	PREPRE	A	104	85	25	98	100	100
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	POSPOS	C	402	100	15	98	75	100
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C	606	100	5	99	75	100
								807	100	0	98	100	100
								Mean =	96	11	98	88	100
5	Degree Xtra	2.02	lb ai/a	2	qt/a	PREPRE	A	105	80	0	98	100	100
	Atrazine	0.27	lb ai/a	0.27	qt/a	PREPRE	A	406	95	5	98	50	100
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	POSPOS	C	501	100	10	97	25	100
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C	803	100	10	98	100	100
								Mean =	94	6	98	69	100
6	Degree Xtra	2.02	lb ai/a	2	qt/a	EAPOWE	B	106	100	0	95	100	100
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	EAPOWE	B	301	100	5	95	50	100
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	601	100	0	95	75	100
								805	100	5	95	90	100
								Mean =	100	3	95	79	100
7	Lumax	1.98	lb ai/a	2	qt/a	EAPOWE	B	107	100	0	97	100	100
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B	307	100	0	97	100	100
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	608	100	0	95	75	100
								808	100	0	93	100	100
								Mean =	100	0	96	94	100
8	Lexar	2.78	lb ai/a	3	qt/a	EAPOWE	B	108	100	0	100	100	100
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B	302	100	0	98	100	100
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	605	100	5	98	85	100
								702	100	0	98	100	100
								Mean =	100	1	99	96	100
9	Lumax	2.47	lb ai/a	2.5	qt/a	EAPOWE	B	201	100	5	95	100	100
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B	303	100	5	95	75	100
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	602	100	5	95	75	100
								707	100	0	97	75	100
								Mean =	100	4	96	81	100

# Purdue University

Crop Code									AMBEL	ZEAMX	XANST	CYPES	AMBEL
Part Rated									PLAQUA P	INJ C	PLAQUA P	PLAQUA P	PLAQUA P
Rating Data Type									1-100	1-100	1-100	1-100	1-100
Rating Unit									%	%	%	%	%
Rating Date									23/Jun/2005	30/Jun/2005	30/Jun/2005	30/Jun/2005	30/Jun/2005
Crop Stage										V10			
Crop Stage Scale										48-60"			
Weed Stage									4-18"		6-32"	6-18"	6-30"
Weed Density, Unit									1-8 YD2		8-30YD2	5-25YD2	8 YD2
Footnote Number													
Assessed By									VD,VM	VD	VD	VD	VD
ARM Action Codes													
# Subsamples, Dec.													
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	11	12	13	14	15
10	Lexar	2.16	lb ai/a	2.33	qt/a	EAPOWE	B	202	100	0	98	100	100
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B	304	100	5	97	75	100
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	503	100	0	95	75	100
								801	100	0	93	100	100
								Mean =	100	1	96	88	100
11	Lexar	2.78	lb ai/a	3	qt/a	PREPRE	A	203	100	10	95	75	100
	Atrazine	0.7	lb ai/a	0.7	qt/a	PREPRE	A	403	100	5	80	75	100
								504	100	0	95	50	100
								704	100	5	90	95	100
								Mean =	100	5	90	74	100
12	Harness Xtra 5.6	3.22	lb ai/a	2.3	qt/a	PREPRE	A	204	85	0	97	75	100
	Atrazine	0.5	lb ai/a	0.5	qt/a	PREPRE	A	408	75	5	85	75	100
								603	100	20	75	50	100
								802	100	20	40	80	100
								Mean =	90	11	74	70	100
13	Degree Xtra	2.93	lb ai/a	2.9	qt/a	PREPRE	A	205	100	0	95	75	100
	Atrazine	1	lb ai/a	1	qt/a	PREPRE	A	308	70	5	97	75	75
								505	50	5	75	50	100
								806	100	5	90	100	100
								Mean =	80	4	89	75	94
14	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	PREPRE	A	206	90	0	95	75	85
	Atrazine	0.375	lb ai/a	0.375	qt/a	PREPRE	A	401	100	35	0	75	100
								506	80	0	85	75	80
								706	100	5	80	75	100
								Mean =	93	10	65	75	91
15	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	PREPRE	A	207	95	0	100	100	100
	Touchdown Total	0.78	lb ae/a	24	oz/a	POSPOS	C	306	100	5	100	100	100
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C	507	100	0	98	100	100
								804	100	10	98	100	100
								Mean =	99	4	99	100	100
16	Untreated check							208	0	0	0	0	0
								305	0	0	0	0	0
								502	0	0	0	0	0
								701	0	0	0	0	0
								Mean =	0	0	0	0	0

# Purdue University

Crop Code									XANST	AMBAR	ZEAMD	ZEAMD	ZEAMD
Part Rated									EFF	EFF	GRAIN	GRAIN	GRAIN
Rating Data Type									1-100	1-100	plot weight	moisture	YIELD
Rating Unit									%	%	lbs	%	BU/ACRE
Rating Date									6/Oct/2005	6/Oct/2005	8/Oct/2005	8/Oct/2005	8/Oct/2005
Crop Stage									harvest	harvest	harvest	harvest	harvest
Crop Stage Scale									36-72"	48-72"			
Weed Stage									8-30YD2	8 YD2			
Weed Density, Unit											1		1
Footnote Number											Don B.	Don B.	Don B.
Assessed By									VMD	VMD			
ARM Action Codes													TY2
# Subsamples, Dec.													0
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	16	17	18	19	20
1	Untreated Check							101	0	0	9	15	27
								407	0	0	44	16	134
								607	0	0	40	16	124
								708	0	0	29	16	90
								Mean =	0	0	30	16	94
2	Lumax	2.47	lb ai/a	2.5	qt/a	PREPRE	A	102	40	100	28	16	86
	Atrazine	1.38	lb ai/a	1.375	qt/a	PREPRE	A	404	40	100	33	16	102
								508	85	95	51	16	157
								703	60	100	46	16	141
								Mean =	56	99	40	16	122
3	Radius	0.656	lb ai/a	21	oz/a	PREPRE	A	103	60	100	34	16	104
	Atrazine	2	lb ai/a	2	qt/a	PREPRE	A	405	85	100	50	16	153
								604	10	100	35	16	109
								705	40	100	41	16	126
								Mean =	49	100	40	16	123
4	Harness Xtra 5.6	2.1	lb ai/a	1.5	qt/a	PREPRE	A	104	98	100	47	16	144
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	POSPOS	C	402	80	100	47	16	145
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C	606	100	100	49	16	149
								807	95	100	59	16	182
								Mean =	93	100	51	16	155
5	Degree Xtra	2.02	lb ai/a	2	qt/a	PREPRE	A	105	100	100	55	16	169
	Atrazine	0.27	lb ai/a	0.27	qt/a	PREPRE	A	406	100	100	55	16	168
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	POSPOS	C	501	80	100	51	16	157
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C	803	100	100	53	17	160
								Mean =	95	100	53	16	163
6	Degree Xtra	2.02	lb ai/a	2	qt/a	EAPOWE	B	106	85	100	44	16	134
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	EAPOWE	B	301	75	100	56	16	172
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	601	70	100	45	16	139
								805	80	100	49	16	152
								Mean =	78	100	49	16	149
7	Lumax	1.98	lb ai/a	2	qt/a	EAPOWE	B	107	95	100	56	16	171
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B	307	98	100	58	16	178
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	608	80	100	52	16	160
								808	80	100	55	16	169
								Mean =	88	100	55	16	170
8	Lexar	2.78	lb ai/a	3	qt/a	EAPOWE	B	108	100	100	62	16	191
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B	302	95	100	54	16	164
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	605	85	100	51	16	155
								702	40	100	56	16	172
								Mean =	80	100	56	16	171
9	Lumax	2.47	lb ai/a	2.5	qt/a	EAPOWE	B	201	75	100	42	16	128
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B	303	70	100	50	16	154
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B	602	50	100	47	16	143
								707	75	100	57	16	174
								Mean =	68	100	49	16	150

# Purdue University

									XANST	AMBAR	ZEAMD	ZEAMD	ZEAMD
									EFF	EFF	GRAIN	GRAIN	GRAIN
									1-100	1-100	plot weight	moisture	YIELD
									%	%	lbs	%	BU/ACRE
									6/Oct/2005	6/Oct/2005	8/Oct/2005	8/Oct/2005	8/Oct/2005
									harvest	harvest	harvest	harvest	harvest
									36-72"	48-72"			
									8-30YD2	8 YD2			
											1		1
									VMD	VMD	Don B.	Don B.	Don B.
													TY2
													0
Trt	Treatment	Rate	Product	Product	Grow	Appl	Plot		16	17	18	19	20
No.	Name	Unit	Rate	Rate	Stg	Code							
10	Lexar	2.16 lb ai/a	2.33 qt/a	EAPOWE	B	202		85	100	49	16	149	
	Touchdown Total	0.78 lb ae/a	24 oz/a	EAPOWE	B	304		80	100	57	16	175	
	AMS	2.5 lb/a	2.5 lb/a	EAPOWE	B	503		85	100	48	16	147	
						801		80	100	56	16	171	
						Mean =		83	100	52	16	160	
11	Lexar	2.78 lb ai/a	3 qt/a	PREPRE	A	203		65	100	45	16	137	
	Atrazine	0.7 lb ai/a	0.7 qt/a	PREPRE	A	403		60	100	43	16	131	
						504		70	100	59	16	182	
						704		60	100	52	16	159	
						Mean =		64	100	50	16	152	
12	Harness Xtra 5.6	3.22 lb ai/a	2.3 qt/a	PREPRE	A	204		90	100	41	16	125	
	Atrazine	0.5 lb ai/a	0.5 qt/a	PREPRE	A	408		70	100	43	16	133	
						603		40	100	38	16	118	
						802		20	100	37	16	114	
						Mean =		55	100	40	16	123	
13	Degree Xtra	2.93 lb ai/a	2.9 qt/a	PREPRE	A	205		80	100	43	16	133	
	Atrazine	1 lb ai/a	1 qt/a	PREPRE	A	308		75	80	45	16	137	
						505		30	100	45	16	139	
						806		85	100	54	16	165	
						Mean =		68	95	47	16	143	
14	Bicep II Magnum	2.9 lb ai/a	2.1 qt/a	PREPRE	A	206		90	95	47	16	143	
	Atrazine	0.375 lb ai/a	0.375 qt/a	PREPRE	A	401		0	100	16	16	50	
						506		90	98	48	16	148	
						706		70	100	46	16	140	
						Mean =		63	98	39	16	120	
15	Bicep II Magnum	2.9 lb ai/a	2.1 qt/a	PREPRE	A	207		98	100	54	16	166	
	Touchdown Total	0.78 lb ae/a	24 oz/a	POSPOS	C	306		100	100	58	16	176	
	AMS	2.5 lb/a	2.5 lb/a	POSPOS	C	507		100	100	62	16	191	
						804		95	100	49	16	152	
						Mean =		98	100	56	16	171	
16	Untreated check					208		0	0	26	16	82	
						305		0	0	49	16	150	
						502		0	0	6	15	18	
						701		0	0	13	16	40	
						Mean =		0	0	24	16	72	

Column 18 Footnote: 4 rows X 25 feet were harvested.

Column 20: TY2 = 3.111428\*[18]\*(100-[19])/85

Footnote: 4 rows X 25 feet were harvested.

# Purdue University

## Roundup Ready Corn 2 Weed Control System - Academic

Trial ID: 05-SEPAC-CORN-SOILAPP  
 Location: SEPAC

Study Dir.: Vince Davis  
 Investigator: Dr. William G. Johnson

							ZEAMX	ZEAMX	ZEAMX	ZEAMX	XANST	
							Bleach C	#plant C	Bleach C	INJ C	PLAQUA P	
							1-100	1-100	1-100	1-100	1-100	
							%	%	%	%	%	
							24/May/2005	24/May/2005	14/Jun/2005	14/Jun/2005	14/Jun/2005	
							VC	VC	V6	V6		
							2-3"	2-3"	20"	20"		
											3-8"	
											5-25YD2	
							RD,VD,VM	RD,VD,VM	VD,VM	VD,VM	VD,VM	
							2 2	2 2	1 1	1 1	1 1	
Trt No.	Treatment Name	Rate	Product Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5
1	Untreated Check							0.00 a	14.00 a	0.0 a	0.0 b	0.0 e
2	Lumax	2.47	lb ai/a	2.5	qt/a	PREPRE	A	0.13 a	13.13 a	0.0 a	0.0 b	83.8 abc
	Atrazine	1.38	lb ai/a	1.375	qt/a	PREPRE	A					
3	Radius	0.656	lb ai/a	21	oz/a	PREPRE	A	1.13 a	13.25 a	0.0 a	21.3 a	78.8 abc
	Atrazine	2	lb ai/a	2	qt/a	PREPRE	A					
4	Harness Xtra 5.6	2.1	lb ai/a	1.5	qt/a	PREPRE	A	0.00 a	13.25 a	0.0 a	2.5 b	48.8 d
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	POSPOS	C					
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C					
5	Degree Xtra	2.02	lb ai/a	2	qt/a	PREPRE	A	0.00 a	14.50 a	1.3 a	3.8 b	63.8 bcd
	Atrazine	0.27	lb ai/a	0.27	qt/a	PREPRE	A					
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	POSPOS	C					
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C					
6	Degree Xtra	2.02	lb ai/a	2	qt/a	EAPOWE	B			0.0 a	1.3 b	91.3 a
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	EAPOWE	B					
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B					
7	Lumax	1.98	lb ai/a	2	qt/a	EAPOWE	B			0.0 a	0.0 b	92.3 a
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B					
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B					
8	Lexar	2.78	lb ai/a	3	qt/a	EAPOWE	B			1.3 a	1.3 b	95.5 a
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B					
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B					
9	Lumax	2.47	lb ai/a	2.5	qt/a	EAPOWE	B			1.3 a	2.5 b	90.0 ab
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B					
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B					
10	Lexar	2.16	lb ai/a	2.33	qt/a	EAPOWE	B			1.3 a	1.3 b	93.0 a
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B					
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B					
11	Lexar	2.78	lb ai/a	3	qt/a	PREPRE	A	0.00 a	13.88 a	0.0 a	2.5 b	91.3 a
	Atrazine	0.7	lb ai/a	0.7	qt/a	PREPRE	A					
12	Harness Xtra 5.6	3.22	lb ai/a	2.3	qt/a	PREPRE	A	0.00 a	12.75 a	0.0 a	1.3 b	70.8 a-d
	Atrazine	0.5	lb ai/a	0.5	qt/a	PREPRE	A					
13	Degree Xtra	2.93	lb ai/a	2.9	qt/a	PREPRE	A	0.00 a	14.38 a	0.0 a	0.0 b	88.3 abc
	Atrazine	1	lb ai/a	1	qt/a	PREPRE	A					
14	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	PREPRE	A	0.00 a	14.25 a	0.0 a	1.3 b	62.5 cd
	Atrazine	0.375	lb ai/a	0.375	qt/a	PREPRE	A					



## Purdue University

Crop Code							CYPES	ZEAMX	ZEAMX	XANST	CYPES	
Part Rated							PLAQUA P	Bleach C	INJ C	PLAQUA P	PLAQUA P	
Rating Data Type							1-100	1-100	1-100	1-100	1-100	
Rating Unit							%	%	%	%	%	
Rating Date							14/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005	
Crop Stage								V8	V8			
Crop Stage Scale								30-36"	30-36"			
Weed Stage							3-8"			1-24"	5-12"	
Weed Density, Unit							5-25YD2			8-30YD2	5-25YD2	
Footnote Number												
Assessed By							VD,VM	VD,VM	VD,VM	VD,VM	VD,VM	
ARM Action Codes												
# Subsamples, Dec.												
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	6	7	8	9	10
1	Untreated Check							0 e	0 a	0 e	0 e	0 c
2	Lumax	2.47	lb ai/a	2.5	qt/a	PREPRE	A	91 ab	0 a	1 de	65 cd	89 a
	Atrazine	1.38	lb ai/a	1.375	qt/a	PREPRE	A					
3	Radius	0.656	lb ai/a	21	oz/a	PREPRE	A	48 d	0 a	8 abc	70 bcd	55 b
	Atrazine	2	lb ai/a	2	qt/a	PREPRE	A					
4	Harness Xtra 5.6	2.1	lb ai/a	1.5	qt/a	PREPRE	A	69 bcd	0 a	13 a	95 a	81 a
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	POSPOS	C					
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C					
5	Degree Xtra	2.02	lb ai/a	2	qt/a	PREPRE	A	55 cd	0 a	6 bcd	96 a	58 b
	Atrazine	0.27	lb ai/a	0.27	qt/a	PREPRE	A					
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	POSPOS	C					
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C					
6	Degree Xtra	2.02	lb ai/a	2	qt/a	EAPOWE	B	75 abc	0 a	3 cde	90 ab	81 a
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	EAPOWE	B					
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B					
7	Lumax	1.98	lb ai/a	2	qt/a	EAPOWE	B	89 ab	0 a	0 e	90 ab	90 a
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B					
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B					
8	Lexar	2.78	lb ai/a	3	qt/a	EAPOWE	B	88 ab	0 a	1 de	96 a	95 a
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B					
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B					
9	Lumax	2.47	lb ai/a	2.5	qt/a	EAPOWE	B	75 abc	0 a	3 cde	88 ab	83 a
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B					
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B					
10	Lexar	2.16	lb ai/a	2.33	qt/a	EAPOWE	B	84 ab	0 a	1 de	92 ab	80 a
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B					
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B					
11	Lexar	2.78	lb ai/a	3	qt/a	PREPRE	A	90 ab	1 a	4 b-e	85 abc	81 a
	Atrazine	0.7	lb ai/a	0.7	qt/a	PREPRE	A					
12	Harness Xtra 5.6	3.22	lb ai/a	2.3	qt/a	PREPRE	A	75 abc	0 a	9 ab	63 cd	74 ab
	Atrazine	0.5	lb ai/a	0.5	qt/a	PREPRE	A					
13	Degree Xtra	2.93	lb ai/a	2.9	qt/a	PREPRE	A	86 ab	0 a	4 b-e	81 abc	74 ab
	Atrazine	1	lb ai/a	1	qt/a	PREPRE	A					
14	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	PREPRE	A	85 ab	1 a	5 b-e	58 d	81 a
	Atrazine	0.375	lb ai/a	0.375	qt/a	PREPRE	A					
15	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	PREPRE	A	96 a	0 a	5 b-e	96 a	95 a
	Touchdown Total	0.78	lb ae/a	24	oz/a	POSPOS	C					
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C					

# Purdue University

Crop Code	CYPES	ZEAMX	ZEAMX	XANST	CYPES
Part Rated	PLAQUA P	Bleach C	INJ C	PLAQUA P	PLAQUA P
Rating Data Type	1-100	1-100	1-100	1-100	1-100
Rating Unit	%	%	%	%	%
Rating Date	14/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005
Crop Stage		V8	V8		
Crop Stage Scale		30-36"	30-36"		
Weed Stage	3-8"			1-24"	5-12"
Weed Density, Unit	5-25YD2			8-30YD2	5-25YD2
Footnote Number					
Assessed By	VD,VM	VD,VM	VD,VM	VD,VM	VD,VM
ARM Action Codes					
# Subsamples, Dec.					
Trt Treatment	Rate	Product	Product	Grow	Appl
No. Name	Rate	Unit	Rate	Rate Unit	Stg Code
6 Untreated check	0	e	0	a	0 e
7	0	a	0	e	0 e
8	0	e	0	e	0 e
9	0	e	0	e	0 e
10	0	c	0	c	0 c
LSD (P=.05)	25.5	1.3	5.9	22.3	22.0
Standard Deviation	17.8	0.9	4.1	15.6	15.4
CV	25.84	571.94	107.67	21.52	22.05
Grand Mean	69.06	0.16	3.83	72.55	69.72
Bartlett's X2	39.298	0.0	13.756	77.453	19.606
P(Bartlett's X2)	0.001*	1.00	0.317	0.001*	0.105
Replicate F	3.648	0.652	2.292	2.129	6.883
Replicate Prob(F)	0.0194	0.5858	0.0909	0.1099	0.0007
Treatment F	11.282	0.913	2.966	15.766	14.618
Treatment Prob(F)	0.0001	0.5562	0.0024	0.0001	0.0001

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

# Purdue University

Crop Code							AMBEL	ZEAMX	XANST	CYPES	AMBEL	
Part Rated							PLAQUA P	INJ C	PLAQUA P	PLAQUA P	PLAQUA P	
Rating Data Type							1-100	1-100	1-100	1-100	1-100	
Rating Unit							%	%	%	%	%	
Rating Date							23/Jun/2005	30/Jun/2005	30/Jun/2005	30/Jun/2005	30/Jun/2005	
Crop Stage								V10				
Crop Stage Scale								48-60"				
Weed Stage							4-18"		6-32"	6-18"	6-30"	
Weed Density, Unit							1-8 YD2		8-30YD2	5-25YD2	8 YD2	
Footnote Number												
Assessed By							VD,VM	VD	VD	VD	VD	
ARM Action Codes												
# Subsamples, Dec.												
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	11	12	13	14	15
1	Untreated Check							0 c	0 a	0 d	0 f	0 c
2	Lumax	2.47	lb ai/a	2.5	qt/a	PREPRE	A	100 a	9 a	80 abc	81 a-d	100 a
	Atrazine	1.38	lb ai/a	1.375	qt/a	PREPRE	A					
3	Radius	0.656	lb ai/a	21	oz/a	PREPRE	A	100 a	21 a	83 abc	50 e	100 a
	Atrazine	2	lb ai/a	2	qt/a	PREPRE	A					
4	Harness Xtra 5.6	2.1	lb ai/a	1.5	qt/a	PREPRE	A	96 a	11 a	98 a	88 a-d	100 a
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	POSPOS	C					
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C					
5	Degree Xtra	2.02	lb ai/a	2	qt/a	PREPRE	A	94 a	6 a	98 a	69 de	100 a
	Atrazine	0.27	lb ai/a	0.27	qt/a	PREPRE	A					
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	POSPOS	C					
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C					
6	Degree Xtra	2.02	lb ai/a	2	qt/a	EAPOWE	B	100 a	3 a	95 a	79 bcd	100 a
	Roundup Original Max (ae)	0.75	lb ae/a	21.3	oz/a	EAPOWE	B					
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B					
7	Lumax	1.98	lb ai/a	2	qt/a	EAPOWE	B	100 a	0 a	96 a	94 abc	100 a
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B					
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B					
8	Lexar	2.78	lb ai/a	3	qt/a	EAPOWE	B	100 a	1 a	99 a	96 ab	100 a
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B					
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B					
9	Lumax	2.47	lb ai/a	2.5	qt/a	EAPOWE	B	100 a	4 a	96 a	81 a-d	100 a
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B					
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B					
10	Lexar	2.16	lb ai/a	2.33	qt/a	EAPOWE	B	100 a	1 a	96 a	88 a-d	100 a
	Touchdown Total	0.78	lb ae/a	24	oz/a	EAPOWE	B					
	AMS	2.5	lb/a	2.5	lb/a	EAPOWE	B					
11	Lexar	2.78	lb ai/a	3	qt/a	PREPRE	A	100 a	5 a	90 ab	74 cd	100 a
	Atrazine	0.7	lb ai/a	0.7	qt/a	PREPRE	A					
12	Harness Xtra 5.6	3.22	lb ai/a	2.3	qt/a	PREPRE	A	90 ab	11 a	74 bc	70 de	100 a
	Atrazine	0.5	lb ai/a	0.5	qt/a	PREPRE	A					
13	Degree Xtra	2.93	lb ai/a	2.9	qt/a	PREPRE	A	80 b	4 a	89 ab	75 cd	94 b
	Atrazine	1	lb ai/a	1	qt/a	PREPRE	A					
14	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	PREPRE	A	93 a	10 a	65 c	75 cd	91 b
	Atrazine	0.375	lb ai/a	0.375	qt/a	PREPRE	A					
15	Bicep II Magnum	2.9	lb ai/a	2.1	qt/a	PREPRE	A	99 a	4 a	99 a	100 a	100 a
	Touchdown Total	0.78	lb ae/a	24	oz/a	POSPOS	C					
	AMS	2.5	lb/a	2.5	lb/a	POSPOS	C					



## Purdue University

Crop Code Part Rated Rating Data Type Rating Unit Rating Date Crop Stage Crop Stage Scale Weed Stage Weed Density, Unit Footnote Number Assessed By ARM Action Codes # Subsamples, Dec.							XANST EFF 1-100 % 6/Oct/2005	AMBAR EFF 1-100 % 6/Oct/2005	ZEAMD GRAIN plot weight lbs 8/Oct/2005	ZEAMD GRAIN moisture % 8/Oct/2005	ZEAMD GRAIN YIELD BU/ACRE 8/Oct/2005	
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	16	17	18	19	20
1	Untreated Check							0 f	0 c	30 de	16 a	94 de
2	Lumax Atrazine	2.47 1.38	lb ai/a lb ai/a	2.5 1.375	qt/a qt/a	PREPRE PREPRE	A A	56 de	99 ab	40 bcd	16 a	122 bcd
3	Radius Atrazine	0.656 2	lb ai/a lb ai/a	21 2	oz/a qt/a	PREPRE PREPRE	A A	49 e	100 a	40 bcd	16 a	123 bcd
4	Harness Xtra 5.6 Roundup Original Max (ae) AMS	2.1 0.75 2.5	lb ai/a lb ae/a lb/a	1.5 21.3 2.5	qt/a oz/a lb/a	PREPRE POSPOS POSPOS	A C C	93 ab	100 a	51 abc	16 a	155 abc
5	Degree Xtra Atrazine Roundup Original Max (ae) AMS	2.02 0.27 0.75 2.5	lb ai/a lb ai/a lb ae/a lb/a	2 0.27 21.3 2.5	qt/a qt/a oz/a lb/a	PREPRE PREPRE POSPOS POSPOS	A A C C	95 ab	100 a	53 a	16 a	163 a
6	Degree Xtra Roundup Original Max (ae) AMS	2.02 0.75 2.5	lb ai/a lb ae/a lb/a	2 21.3 2.5	qt/a oz/a lb/a	EAPOWE EAPOWE EAPOWE	B B B	78 a-d	100 a	49 abc	16 a	149 abc
7	Lumax Touchdown Total AMS	1.98 0.78 2.5	lb ai/a lb ae/a lb/a	2 24 2.5	qt/a oz/a lb/a	EAPOWE EAPOWE EAPOWE	B B B	88 abc	100 a	55 a	16 a	170 a
8	Lexar Touchdown Total AMS	2.78 0.78 2.5	lb ai/a lb ae/a lb/a	3 24 2.5	qt/a oz/a lb/a	EAPOWE EAPOWE EAPOWE	B B B	80 a-d	100 a	56 a	16 a	171 a
9	Lumax Touchdown Total AMS	2.47 0.78 2.5	lb ai/a lb ae/a lb/a	2.5 24 2.5	qt/a oz/a lb/a	EAPOWE EAPOWE EAPOWE	B B B	68 b-e	100 a	49 abc	16 a	150 abc
10	Lexar Touchdown Total AMS	2.16 0.78 2.5	lb ai/a lb ae/a lb/a	2.33 24 2.5	qt/a oz/a lb/a	EAPOWE EAPOWE EAPOWE	B B B	83 a-d	100 a	52 ab	16 a	160 ab
11	Lexar Atrazine	2.78 0.7	lb ai/a lb ai/a	3 0.7	qt/a qt/a	PREPRE PREPRE	A A	64 cde	100 a	50 abc	16 a	152 abc
12	Harness Xtra 5.6 Atrazine	3.22 0.5	lb ai/a lb ai/a	2.3 0.5	qt/a qt/a	PREPRE PREPRE	A A	55 de	100 a	40 bcd	16 a	123 bcd
13	Degree Xtra Atrazine	2.93 1	lb ai/a lb ai/a	2.9 1	qt/a qt/a	PREPRE PREPRE	A A	68 b-e	95 b	47 abc	16 a	143 abc
14	Bicep II Magnum Atrazine	2.9 0.375	lb ai/a lb ai/a	2.1 0.375	qt/a qt/a	PREPRE PREPRE	A A	63 cde	98 ab	39 cd	16 a	120 cd
15	Bicep II Magnum Touchdown Total AMS	2.9 0.78 2.5	lb ai/a lb ae/a lb/a	2.1 24 2.5	qt/a oz/a lb/a	PREPRE POSPOS POSPOS	A C C	98 a	100 a	56 a	16 a	171 a

# Purdue University

Crop Code	XANST	AMBAR	ZEAMD	ZEAMD	ZEAMD
Part Rated	EFF	EFF	GRAIN	GRAIN	GRAIN
Rating Data Type	1-100	1-100	plot weight	moisture	YIELD
Rating Unit	%	%	lbs	%	BU/ACRE
Rating Date	6/Oct/2005	6/Oct/2005	8/Oct/2005	8/Oct/2005	8/Oct/2005
Crop Stage					
Crop Stage Scale	harvest	harvest	harvest	harvest	harvest
Weed Stage	36-72"	48-72"			
Weed Density, Unit	8-30YD2	8 YD2			
Footnote Number			1		1
Assessed By	VMD	VMD	Don B.	Don B.	Don B.
ARM Action Codes					TY2
# Subsamples, Dec.					0
Trt Treatment					
No. Name	Rate	Rate	Product	Product	Grow
	Unit	Unit	Rate	Rate	Stg
			Appl		Code
16 Untreated check			16	17	18
	0 f	0 c	24 e	16 a	72 e
LSD (P=.05)	27.8	3.8	12.8	0.3	39.4
Standard Deviation	19.4	2.7	9.0	0.2	27.6
CV	30.03	3.07	19.71	1.27	19.7
Grand Mean	64.75	87.0	45.53	16.01	139.94
Bartlett's X2	42.321	7.946	32.303	17.136	32.519
P(Bartlett's X2)	0.001*	0.019*	0.006*	0.311	0.005*
Replicate F	1.242	0.635	0.949	1.299	0.937
Replicate Prob(F)	0.3055	0.5964	0.4252	0.2863	0.4308
Treatment F	9.129	645.926	4.356	1.263	4.341
Treatment Prob(F)	0.0001	0.0001	0.0001	0.2643	0.0001

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

Column 18 Footnote: 4 rows X 25 feet were harvested.  
 Column 20: TY2 = 3.111428\*[18]\*(100-[19])/85  
 Footnote: 4 rows X 25 feet were harvested.

Trial Comments