

Corn, Tilled Weed Control Studies

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 12-24B

Location: Belleville Res. Center

Investigator: Bryan Young

General Trial Information	
Study Director: Bryan Young	Title: Professor
Investigator: Bryan Young	
Trial Status: F - one-year/final	
Initiation Date: 5-16-12	
Trial Location	
City: Belleville	
State/Prov.: IL	
Postal Code: 62221	
Country: USA	

Objectives: Compare the efficacy of competitive corn herbicide programs.
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Personnel	
Study Director: Bryan Young	Title: Professor
Investigator: Bryan Young	
Affiliation: Southern Illinois University	
Address: 1205 Lincoln Drive - AG 176 - MC 4415	
Location: Carbondale IL	
Postal Code: 62901	E-mail: bgyoung@siu.edu
Phone No.: 618-453-7679	Mobile No.: 618-713-6471

Crop Description	
Crop 1: ZEAMD Zea mays indentata Dent corn	Description: RR2/LL
Variety: DKC 61-06	Planting Date: 5-16-12
BBCH Scale: BCOR	Rate, Unit: 28000 S/A
Planting Method: SEEDED Seeded	
Depth, Unit: 1.5 IN	
Row Spacing, Unit: 30 IN	

Pest Description	
Pest 1 Type: W	Code: ABUTH - Abutilon theophrasti Medik. Common Name: velvetleaf
Pest 2 Type: W	Code: AMBTR - Ambrosia trifida L. Common Name: ragweed, giant
Pest 3 Type: W	Code: IPOHE - Ipomoea hederacea (L.) Jacq. Common Name: morningglory, ivyleaf
Pest 4 Type: W	Code: SETFA - Setaria faberi Herrm. Common Name: foxtail, giant
Pest 5 Type: W	Code: CYPES - Cyperus esculentus L. Common Name: nutsedge, yellow

Site and Design	
Plot Width, Unit: 10 FT	Site Type: FIELD field
Plot Length, Unit: 27 FT	
Plot Area, Unit: 270 FT2	Tillage Type: REDTIL reduced-till
Replications: 3	Study Design: RACOB� Randomized Complete Block (RCB)

No.	Previous Crop	Year
1.	NONE	2011

Maintenance	
No.	Maintenance Treatment Name
1.	N 150 LB/A, P205 0 LB/A, K20 100 LB/A

Soil Description	
% OM: 2	Texture: SIL SILT LOAM
pH: 6.9	Soil Name: BETHALTO
CEC: 12	

Additional Measured Elements		
Element	Quantity	Unit
P1	100	LB/A
K	378	LB/A

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Moisture and Weather Conditions										
Overall Moisture Conditions:			BELNOR below normal							
Closest Weather Station: ICN - Belleville IL			Distance, Unit: 0.5 MI							
No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-24-12					7	DAY	42.6	74.3	F
2.	4-29-12	3.06	IN	RAIN	rain					
3.	4-30-12	0.66	IN	RAIN	rain					
4.	5-1-12	0.13	IN	RAIN	rain					
5.	5-1-12					7	DAY	33.5	76	F
6.	5-4-12	0.25	IN	RAIN	rain					
7.	5-7-12	0.29	IN	RAIN	rain					
8.	5-8-12					7	DAY	47.5	87.8	F
9.	5-15-12					7	DAY	37.7	81.3	F
10.	5-21-12	0.18	IN	RAIN	rain					
11.	5-22-12					7	DAY	47.6	82.3	F
12.	5-29-12					7	DAY	48.1	90	F
13.	5-30-12	0.07	IN	RAIN	rain					
14.	5-31-12	0.21	IN	RAIN	rain					
15.	6-5-12					7	DAY	50.2	90.1	F
16.	6-11-12	0.75	IN	RAIN	rain					
17.	6-12-12					7	DAY	52.4	93.6	F
18.	6-17-12	0.36	IN	RAIN	rain					
19.	6-19-12					7	DAY	56.3	94	F
20.	6-26-12					7	DAY	51.8	105.4	F
21.	7-3-12					7	DAY	68.9	104.7	F
22.	7-8-12	0.28	IN	RAIN	rain					
23.	7-10-12					7	DAY	63.4	95	F
24.	7-17-12					7	DAY	61	102.2	F
25.	7-24-12					7	DAY	61	103	F
26.	7-29-12	0.15	IN	RAIN	rain					
27.	7-31-12					7	DAY	60.2	99.1	F
28.	8-5-12	0.18	IN	RAIN	rain					
29.	8-7-12					7	DAY	50.2	99.8	F
30.	8-13-12	0.88	IN	RAIN	rain					
31.	8-14-12					7	DAY	51	95.6	F
32.	8-17-12	1.19	IN	RAIN	rain					
33.	8-21-12					7	DAY	54.7	94.2	F
34.	8-26-12	0.04	IN	RAIN	rain					
35.	8-27-12	1.66	IN	RAIN	rain					
36.	8-31-12	0.11	IN	RAIN	rain					

Application Description			
	A	B	C
Application Date:	5-17-12	6-5-12	6-5-12
Time of Day:	11:30	6:30	6:30
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	2-4"W-1	2-4"W-2
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	RJW	JRK	JRK
Air Temperature, Unit:	76 F	64 F	64 F
% Relative Humidity:	35	38	38
Wind Velocity, Unit:	4 MPH	0 MPH	0 MPH
Wind Direction:	W		
Dew Presence (Y/N):	N no		
Soil Temperature, Unit:	61 F	71 F	71 F
Soil Moisture:	BELNOR	BELNOR	BELNOR
% Cloud Cover:	10	0	0
Next Rain Occurred On:	5-21-12	6-11-12	6-11-12

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Crop Stage At Each Application						
	A		B		C	
Crop 1 Code, BBCH Scale:	ZEAMD	BCOR	ZEAMD	BCOR	ZEAMD	BCOR
Stage Scale Used:	DESC		DESC		DESC	
Stage Majority, Percent:	NA		V5		V5	
Stage Minimum, Percent:			V4		V4	
Stage Maximum, Percent:			V5		V5	
Height, Unit:			11	IN	11	IN
Height Minimum, Maximum:			9	11	9	11

Pest Stage At Each Application						
	A		B		C	
Pest 1 Code, Type, Scale:	ABUTH	W DESC	ABUTH	W DESC	ABUTH	W DESC
Stage Majority, Percent:	NA		3		3	
Stage Minimum, Percent:			Coty		Coty	
Stage Maximum, Percent:			8		8	
Height, Unit:			3	IN	3	IN
Height Minimum, Maximum:			1	6	1	6
Density, Unit:			0.01	FT2	0.01	FT2
Pest 2 Code, Type, Scale:	AMBTR	W DESC	AMBTR	W DESC	AMBTR	W DESC
Stage Majority, Percent:	NA		4		4	
Stage Minimum, Percent:			Coty		Coty	
Stage Maximum, Percent:			8		8	
Height, Unit:			3	IN	3	IN
Height Minimum, Maximum:			1	6	1	6
Density, Unit:			0.01	FT2	0.01	FT2
Pest 3 Code, Type, Scale:	IPOHE	W DESC	IPOHE	W DESC	IPOHE	W DESC
Stage Majority, Percent:	NA		4		4	
Stage Minimum, Percent:			Coty		Coty	
Stage Maximum, Percent:			8		8	
Height, Unit:			3	IN	3	IN
Height Minimum, Maximum:			1	5	1	5
Density, Unit:			0.3	FT2	0.3	FT2
Pest 4 Code, Type, Scale:	SETFA	W DESC	SETFA	W DESC	SETFA	W DESC
Stage Majority, Percent:	NA		3		3	
Stage Minimum, Percent:			1		1	
Stage Maximum, Percent:			4		4	
Height, Unit:			2	IN	2	IN
Height Minimum, Maximum:			0.5	4	0.5	4
Density, Unit:			0.1	FT2	0.1	FT2
Pest 5 Code, Type, Scale:	CYPES	W DESC	CYPES	W DESC	CYPES	W DESC
Stage Majority, Percent:	NA		4		4	
Stage Minimum, Percent:			3		3	
Stage Maximum, Percent:			8		8	
Height, Unit:			4	IN	4	IN
Height Minimum, Maximum:			2	7	2	7
Density, Unit:			0.5	FT2	0.5	FT2

Application Equipment						
	A		B		C	
Appl. Equipment:	CO2 sprayer		CO2 sprayer		CO2 sprayer	
Equipment Type:	BACSPR		BACSPR		BACSPR	
Operation Pressure, Unit:	30	PSI	30	PSI	30	PSI
Nozzle Type:	XR		XR		XR	
Nozzle Size:	8002		8002		8002	
Boom Length, Unit:	7.5 FT		7.5 FT		7.5 FT	
Spray Volume, Unit:	15	GPA	15	GPA	15	GPA

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								ZEAMD 10-9-12 Moisture Percent	ZEAMD 10-9-12 Test wt. lb/bu	ZEAMD 10-9-12 Yield bu/A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Form Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	NONTREATED									17.3 a	56.8 a	83 e
2	LEXAR EZ	3.7	SC	2.78 lb ai/a		3 qt/a		PRE	A	18.6 a	56.3 a	118 cd
3	LEXAR EZ LEXAR EZ	3.7 3.7	SC SC	1.39 lb ai/a 1.39 lb ai/a		1.5 qt/a 1.5 qt/a		PRE 2-4"W-2 C	A C	18.2 a	56.5 a	121 bcd
4	LEXAR EZ HALEX GT AATREX NIS (ACTIVATOR 90) N-PAK AMS	3.7 4.38 4 100 100	SC CS SC SL SL	1.39 lb ai/a 1.97 lb ai/a 1 lb ai/a 0.25 % v/v 5 % v/v		1.5 qt/a 3.6 pt/a 1 qt/a 0.25 % v/v 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C C	17.3 a	56.9 a	129 abc
5	HALEX GT AATREX NIS (ACTIVATOR 90) N-PAK AMS	4.38 4 100 100	CS SC SL SL	1.97 lb ai/a 1 lb ai/a 0.25 % v/v 5 % v/v		3.6 pt/a 1 qt/a 0.25 % v/v 5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B 2-4"W-1 B	B B B B	18.1 a	56.6 a	138 abc
6	LEXAR EZ HALEX GT PEAK NIS (ACTIVATOR 90) N-PAK AMS	3.7 4.38 57 100 100	SC CS WG SL SL	1.39 lb ai/a 1.97 lb ai/a 0.0089 lb ai/a 0.25 % v/v 5 % v/v		1.5 qt/a 3.6 pt/a 0.25 oz/a 0.25 % v/v 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C C	17.3 a	56.9 a	132 abc
7	SOLIDA GLYFOS X-TRA N-PAK AMS	25 3 100	WG SL SL	0.0156 lb ai/a 0.75 lb ae/a 5 % v/v		1 oz/a 32 fl oz/a 5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B	B B B	18.5 a	56.3 a	138 abc
8	DEGREE XTRA SOLIDA GLYFOS X-TRA N-PAK AMS	4.04 25 3 100	CS WG SL SL	2.02 lb ai/a 0.0156 lb ai/a 0.75 lb ae/a 5 % v/v		2 qt/a 1 oz/a 32 fl oz/a 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C	18.1 a	56.5 a	121 bcd
9	DEGREE XTRA ROUNDUP POWERMAX N-PAK AMS	4.04 4.5 100	CS SL SL	2.02 lb ai/a 0.77 lb ae/a 5 % v/v		2 qt/a 22 fl oz/a 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C	A C C	18.4 a	56.4 a	134 abc
10	CORVUS AATREX	2.62 4	SC SC	0.115 lb ai/a 1.5 lb ai/a		5.6 fl oz/a 1.5 qt/a		PRE PRE	A A	17.6 a	56.7 a	104 de
11	CORVUS AATREX ROUNDUP POWERMAX N-PAK AMS	2.62 4 4.5 100	SC SC SL SL	0.0614 lb ai/a 1 lb ai/a 0.77 lb ae/a 5 % v/v		3 fl oz/a 1 qt/a 22 fl oz/a 5 % v/v		PRE PRE 2-4"W-2 C 2-4"W-2 C	A A C C	18.3 a	56.5 a	133 abc
12	CAPRENO AATREX ROUNDUP POWERMAX N-PAK AMS	3.45 4 4.5 100	SC SC SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 5 % v/v		3 fl oz/a 1.5 qt/a 22 fl oz/a 5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B 2-4"W-1 B	B B B B	18.5 a	56.4 a	137 abc
13	INSTIGATE CINCH ATZ	45.84 5.5	WG SC	0.172 lb ai/a 2.75 lb ai/a		6 oz/a 2 qt/a		PRE PRE	A A	17.7 a	56.8 a	104 de
14	PREQUEL REALM Q ABUNDIT EXTRA N-PAK AMS	45 38.75 3 100	WG WG SL SL	0.0467 lb ai/a 0.097 lb ai/a 0.75 lb ae/a 5 % v/v		1.66 oz/a 4 oz/a 32 fl oz/a 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C	17.6 a	56.8 a	125 a-d

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.

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								ZEAMD 10-9-12 Moisture Percent	ZEAMD 10-9-12 Test wt. lb/bu	ZEAMD 10-9-12 Yield bu/A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit Stage	Appl Code			
15	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	18.0 a	56.6 a	146 a
	GUARDSMAN MAX	5	SE	0.94	lb ai/a	1.5	pt/a	PRE	A			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C			
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	2-4"W-2	C			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C			
16	GUARDSMAN MAX	5	SE	2.5	lb ai/a	4	pt/a	2-4"W-1	B	17.8 a	56.6 a	134 abc
	ARMEZON	2.8	SL	0.0164	lb ai/a	0.75	oz/a	2-4"W-1	B			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B			
	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	2-4"W-1	B			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-1	B			
17	ANTHEM ATZ	4.5	SE	0.98	lb ai/a	28	fl oz/a	2-4"W-1	B	17.7 a	56.7 a	136 abc
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-1	B			
18	SURESTART	4.25	SE	1.06	lb ai/a	2	pt/a	PRE	A	18.2 a	56.5 a	132 abc
	AATREX	4	SC	1	lb ai/a	1	qt/a	PRE	A			
	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	2-4"W-2	C			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C			
19	SURESTART	4.25	SE	1.06	lb ai/a	2	pt/a	2-4"W-1	B	17.9 a	56.6 a	142 ab
	AATREX	4	SC	1	lb ai/a	1	qt/a	2-4"W-1	B			
	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	2-4"W-1	B			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-1	B			
20	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	17.9 a	56.6 a	141 ab
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C			
	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W-2	C			
	MSO (MSO ULTRA)	100	SL	0.5	% v/v	0.5	% v/v	2-4"W-2	C			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C			
21	NONTREATED									16.9 a	56.6 a	56 f
22	NONTREATED									17.4 a	56.8 a	84 e
LSD (P=.05)								0.99	0.49	21.8		
Standard Deviation								0.60	0.30	13.2		
CV								3.36	0.53	10.79		
Replicate F								7.762	4.747	0.377		
Replicate Prob(F)								0.0014	0.0138	0.6884		
Treatment F								1.751	0.961	8.918		
Treatment Prob(F)								0.0606	0.5246	0.0001		

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	ZEAMD 6-5-12 Injury Percent 0 DA-B 0 DA-C	ZEAMD 6-6-12 Injury Percent 21 DAP	ZEAMD 6-12-12 Injury Percent 7 DA-B 7 DA-C	ZEAMD 6-19-12 Injury Percent 14 DA-B 14 DA-C	ZEAMD 6-26-12 Injury Percent 21 DA-B 21 DA-C	ZEAMD 7-17-12 Injury Percent 42 DA-B 42 DA-C			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Stage	Appl Code						
1	NONTREATED									0 a	0 a	0 d	0 c	0 a	0 a
2	LEXAR EZ	3.7 SC		2.78 lb ai/a	3 qt/a		PRE	A		0 a	0 a	0 d	0 c	0 a	0 a
3	LEXAR EZ LEXAR EZ	3.7 SC 3.7 SC		1.39 lb ai/a 1.39 lb ai/a	1.5 qt/a 1.5 qt/a		PRE 2-4"W-2 C	A C		0 a	0 a	0 d	0 c	0 a	0 a
4	LEXAR EZ HALEX GT AATREX NIS (ACTIVATOR 90) N-PAK AMS	3.7 SC 4.38 CS 4 SC 100 SL 100 SL		1.39 lb ai/a 1.97 lb ai/a 1 lb ai/a 0.25 % v/v 5 % v/v	1.5 qt/a 3.6 pt/a 1 qt/a 0.25 % v/v 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C C		0 a	0 a	0 d	0 c	0 a	0 a
5	HALEX GT AATREX NIS (ACTIVATOR 90) N-PAK AMS	4.38 CS 4 SC 100 SL 100 SL		1.97 lb ai/a 1 lb ai/a 0.25 % v/v 5 % v/v	3.6 pt/a 1 qt/a 0.25 % v/v 5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B 2-4"W-1 B	B B B B		0 a	0 a	0 d	0 c	0 a	0 a
6	LEXAR EZ HALEX GT PEAK NIS (ACTIVATOR 90) N-PAK AMS	3.7 SC 4.38 CS 57 WG 100 SL 100 SL		1.39 lb ai/a 1.97 lb ai/a 0.0089 lb ai/a 0.25 % v/v 5 % v/v	1.5 qt/a 3.6 pt/a 0.25 oz/a 0.25 % v/v 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C C		0 a	0 a	1 d	0 c	0 a	0 a
7	SOLIDA GLYFOS X-TRA N-PAK AMS	25 WG 3 SL 100 SL		0.0156 lb ai/a 0.75 lb ae/a 5 % v/v	1 oz/a 32 fl oz/a 5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B	B B B		0 a	0 a	16 a	3 b	0 a	0 a
8	DEGREE XTRA SOLIDA GLYFOS X-TRA N-PAK AMS	4.04 CS 25 WG 3 SL 100 SL		2.02 lb ai/a 0.0156 lb ai/a 0.75 lb ae/a 5 % v/v	2 qt/a 1 oz/a 32 fl oz/a 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C		0 a	0 a	15 a	4 b	0 a	0 a
9	DEGREE XTRA ROUNDUP POWERMAX N-PAK AMS	4.04 CS 4.5 SL 100 SL		2.02 lb ai/a 0.77 lb ae/a 5 % v/v	2 qt/a 22 fl oz/a 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C	A C C		0 a	0 a	0 d	0 c	0 a	0 a
10	CORVUS AATREX	2.62 SC 4 SC		0.115 lb ai/a 1.5 lb ai/a	5.6 fl oz/a 1.5 qt/a		PRE PRE	A A		0 a	0 a	0 d	0 c	0 a	0 a
11	CORVUS AATREX ROUNDUP POWERMAX N-PAK AMS	2.62 SC 4 SC 4.5 SL 100 SL		0.0614 lb ai/a 1 lb ai/a 0.77 lb ae/a 5 % v/v	3 fl oz/a 1 qt/a 22 fl oz/a 5 % v/v		PRE PRE 2-4"W-2 C 2-4"W-2 C	A A C C		0 a	0 a	0 d	0 c	0 a	0 a
12	CAPRENO AATREX ROUNDUP POWERMAX N-PAK AMS	3.45 SC 4 SC 4.5 SL 100 SL		0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B 2-4"W-1 B	B B B B		0 a	0 a	9 b	3 b	0 a	0 a
13	INSTIGATE CINCH ATZ	45.84 WG 5.5 SC		0.172 lb ai/a 2.75 lb ai/a	6 oz/a 2 qt/a		PRE PRE	A A		0 a	0 a	0 d	0 c	0 a	0 a
14	PREQUEL REALM Q ABUNDIT EXTRA N-PAK AMS	45 WG 38.75 WG 3 SL 100 SL		0.0467 lb ai/a 0.097 lb ai/a 0.75 lb ae/a 5 % v/v	1.66 oz/a 4 oz/a 32 fl oz/a 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C		0 a	0 a	5 c	0 c	0 a	0 a

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Investigator: Bryan Young

Pest Code								ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD		
Crop Code								6-5-12	6-6-12	6-12-12	6-19-12	6-26-12	7-17-12		
Rating Date								Injury	Injury	Injury	Injury	Injury	Injury		
Rating Type								Percent	Percent	Percent	Percent	Percent	Percent		
Rating Unit								0 DA-B	21 DAP	7 DA-B	14 DA-B	21 DA-B	42 DA-B		
Rating Timing								0 DA-C		7 DA-C	14 DA-C	21 DA-C	42 DA-C		
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code						
15	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	0 a	0 a	0 d	0 c	0 a	0 a
	GUARDSMAN MAX	5	SE	0.94	lb ai/a	1.5	pt/a	PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C						
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	2-4"W-2	C						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
16	GUARDSMAN MAX	5	SE	2.5	lb ai/a	4	pt/a	2-4"W-1	B	0 a	0 a	16 a	9 a	0 a	0 a
	ARMEZON	2.8	SL	0.0164	lb ai/a	0.75	oz/a	2-4"W-1	B						
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B						
	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	2-4"W-1	B						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-1	B						
17	ANTHEM ATZ	4.5	SE	0.98	lb ai/a	28	fl oz/a	2-4"W-1	B	0 a	0 a	0 d	0 c	0 a	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-1	B						
18	SURESTART	4.25	SE	1.06	lb ai/a	2	pt/a	PRE	A	0 a	0 a	0 d	0 c	0 a	0 a
	AATREX	4	SC	1	lb ai/a	1	qt/a	PRE	A						
	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	2-4"W-2	C						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
19	SURESTART	4.25	SE	1.06	lb ai/a	2	pt/a	2-4"W-1	B	0 a	0 a	0 d	0 c	0 a	0 a
	AATREX	4	SC	1	lb ai/a	1	qt/a	2-4"W-1	B						
	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	2-4"W-1	B						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-1	B						
20	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	0 a	0 a	0 d	0 c	0 a	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C						
	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W-2	C						
	MSO (MSO ULTRA)	100	SL	0.5	% v/v	0.5	% v/v	2-4"W-2	C						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
21	NONTREATED									0 a	0 a	0 d	0 c	0 a	0 a
22	NONTREATED									0 a	0 a	0 d	0 c	0 a	0 a
LSD (P=.05)								0.0	0.0	1.2	1.9	0.0	0.0		
Standard Deviation								0.0	0.0	0.7	1.1	0.0	0.0		
CV								0.0	0.0	25.72	136.56	0.0	0.0		
Replicate F								0.000	0.000	3.115	1.135	0.000	0.000		
Replicate Prob(F)								1.0000	1.0000	0.0548	0.3311	1.0000	1.0000		
Treatment F								0.000	0.000	180.819	10.583	0.000	0.000		
Treatment Prob(F)								1.0000	1.0000	0.0001	0.0001	1.0000	1.0000		

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 12-24B

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								ABUTH	ABUTH	ABUTH	AMBTR	AMBTR	AMBTR
Trt Treatment No. Name								6-5-12 Control Percent 0 DA-B 0 DA-C	6-26-12 Control Percent 21 DA-B 21 DA-C	7-17-12 Control Percent 42 DA-B 42 DA-C	6-5-12 Control Percent 0 DA-B 0 DA-C	6-26-12 Control Percent 21 DA-B 21 DA-C	7-17-12 Control Percent 42 DA-B 42 DA-C
Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1 NONTREATED								0 e	0 e	0 f	0 a	0 d	0 d
2 LEXAR EZ								75 a	50 d	50 c	37 a	40 c	33 c
3 LEXAR EZ								37 bc	99 a	99 a	27 a	99 a	99 a
LEXAR EZ													
4 LEXAR EZ								37 bc	99 a	99 a	23 a	99 a	99 a
HALEX GT													
AATREX													
NIS (ACTIVATOR 90)													
N-PAK AMS													
5 HALEX GT								99 a	99 a	99 a	99 a	99 a	
AATREX													
NIS (ACTIVATOR 90)													
N-PAK AMS													
6 LEXAR EZ								50 abc	99 a	99 a	7 a	98 a	98 a
HALEX GT													
PEAK													
NIS (ACTIVATOR 90)													
N-PAK AMS													
7 SOLIDA								98 ab	95 b	99 a	99 a	99 a	
GLYFOS X-TRA													
N-PAK AMS													
8 DEGREE XTRA								35 bcd	98 ab	99 a	15 a	98 a	98 a
SOLIDA													
GLYFOS X-TRA													
N-PAK AMS													
9 DEGREE XTRA								20 cde	98 ab	98 a	0 a	99 a	99 a
ROUNDUP POWERMAX													
N-PAK AMS													
10 CORVUS								63 ab	58 c	45 d	18 a	50 b	50 b
AATREX													
11 CORVUS								57 ab	98 ab	98 a	35 a	98 a	99 a
AATREX													
ROUNDUP POWERMAX													
N-PAK AMS													
12 CAPRENO								99 a	99 a	99 a	99 a	99 a	
AATREX													
ROUNDUP POWERMAX													
N-PAK AMS													
13 INSTIGATE								65 ab	50 d	40 e	23 a	37 c	27 c
CINCH ATZ													
14 PREQUEL								2 de	99 a	99 a	7 a	99 a	99 a
REALM Q													
ABUNDIT EXTRA													
N-PAK AMS													

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 12-24B

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								ABUTH	ABUTH	ABUTH	AMBTR	AMBTR	AMBTR	
								6-5-12 Control Percent 0 DA-B 0 DA-C	6-26-12 Control Percent 21 DA-B 21 DA-C	7-17-12 Control Percent 42 DA-B 42 DA-C	6-5-12 Control Percent 0 DA-B 0 DA-C	6-26-12 Control Percent 21 DA-B 21 DA-C	7-17-12 Control Percent 42 DA-B 42 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage	Appl Code						
15	VERDICT GUARDSMAN MAX ROUNDUP POWERMAX NIS (ACTIVATOR 90) N-PAK AMS	5.57 5 4.5 100 100	EC SE SL SL SL	0.65 lb ai/a 0.94 lb ai/a 0.77 lb ae/a 0.25 % v/v 5 % v/v	15 fl oz/a 1.5 pt/a 22 fl oz/a 0.25 % v/v 5 % v/v		PRE PRE 2-4"W-2 2-4"W-2 2-4"W-2	A A C C C	37 bc	97 b	98 ab	7 a	97 a	98 a
16	GUARDSMAN MAX ARMEZON ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS	5 2.8 4.5 100 100	SE SL SL SL SL	2.5 lb ai/a 0.0164 lb ai/a 0.77 lb ae/a 1 % v/v 5 % v/v	4 pt/a 0.75 oz/a 22 fl oz/a 1 % v/v 5 % v/v		2-4"W-1 2-4"W-1 2-4"W-1 2-4"W-1 2-4"W-1	B B B B B		99 a	99 a		99 a	99 a
17	ANTHEM ATZ ROUNDUP POWERMAX N-PAK AMS	4.5 4.5 100	SE SL SL	0.98 lb ai/a 0.77 lb ae/a 5 % v/v	28 fl oz/a 22 fl oz/a 5 % v/v		2-4"W-1 2-4"W-1 2-4"W-1	B B B		98 ab	98 a		99 a	99 a
18	SURESTART AATREX DURANGO DMA N-PAK AMS	4.25 4 4 100	SE SC SL SL	1.06 lb ai/a 1 lb ai/a 0.75 lb ae/a 5 % v/v	2 pt/a 1 qt/a 24 fl oz/a 5 % v/v		PRE PRE 2-4"W-2 2-4"W-2	A A C C	0 e	98 ab	99 a	33 a	98 a	98 a
19	SURESTART AATREX DURANGO DMA N-PAK AMS	4.25 4 4 100	SE SC SL SL	1.06 lb ai/a 1 lb ai/a 0.75 lb ae/a 5 % v/v	2 pt/a 1 qt/a 24 fl oz/a 5 % v/v		2-4"W-1 2-4"W-1 2-4"W-1 2-4"W-1	B B B B		98 ab	99 a		99 a	99 a
20	DEGREE XTRA ROUNDUP POWERMAX AATREX MSO (MSO ULTRA) N-PAK AMS	4.04 4.5 4 100 100	CS SL SC SL SL	2.02 lb ai/a 0.77 lb ae/a 0.5 lb ai/a 0.5 % v/v 5 % v/v	2 qt/a 22 fl oz/a 1 pt/a 0.5 % v/v 5 % v/v		PRE 2-4"W-2 2-4"W-2 2-4"W-2 2-4"W-2	A C C C C	40 bc	98 ab	98 a	13 a	99 a	99 a
21	NONTREATED								0 e	0 e	0 f	0 a	0 d	0 d
22	NONTREATED								0 e	0 e	0 f	0 a	0 d	0 d
LSD (P=.05)								34.3	1.7	2.8	27.2	9.2	9.2	
Standard Deviation								20.5	1.1	1.7	16.3	5.6	5.6	
CV								63.5	1.34	2.19	106.34	7.21	7.25	
Replicate F								0.237	0.380	0.036	3.542	0.510	0.658	
Replicate Prob(F)								0.7904	0.6868	0.9643	0.0420	0.6042	0.5230	
Treatment F								4.821	3475.706	1388.711	1.962	132.776	140.687	
Treatment Prob(F)								0.0002	0.0001	0.0001	0.0582	0.0001	0.0001	

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 12-24B

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								IPOHE	IPOHE	IPOHE	SETFA	SETFA	SETFA	
								6-5-12 Control Percent 0 DA-B 0 DA-C	6-26-12 Control Percent 21 DA-B 21 DA-C	7-17-12 Control Percent 42 DA-B 42 DA-C	6-5-12 Control Percent 0 DA-B 0 DA-C	6-26-12 Control Percent 21 DA-B 21 DA-C	7-17-12 Control Percent 42 DA-B 42 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code						
1	NONTREATED								0 a	0 j	0 g	0 e	0 f	0 f
2	LEXAR EZ	3.7 SC		2.78 lb ai/a	3 qt/a		PRE	A	17 a	28 hi	25 ef	33 bcd	33 d	30 d
3	LEXAR EZ LEXAR EZ	3.7 SC 3.7 SC		1.39 lb ai/a 1.39 lb ai/a	1.5 qt/a 1.5 qt/a		PRE 2-4"W-2 C	A C	23 a	87 abc	83 abc	27 cde	68 b	62 b
4	LEXAR EZ HALEX GT AATREX NIS (ACTIVATOR 90) N-PAK AMS	3.7 SC 4.38 CS 4 SC 100 SL 100 SL		1.39 lb ai/a 1.97 lb ai/a 1 lb ai/a 0.25 % v/v 5 % v/v	1.5 qt/a 3.6 pt/a 1 qt/a 0.25 % v/v 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C C	5 a	94 a	95 a	30 b-e	98 a	98 a
5	HALEX GT AATREX NIS (ACTIVATOR 90) N-PAK AMS	4.38 CS 4 SC 100 SL 100 SL		1.97 lb ai/a 1 lb ai/a 0.25 % v/v 5 % v/v	3.6 pt/a 1 qt/a 0.25 % v/v 5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B 2-4"W-1 B	B B B B		80 cde	80 c		99 a	99 a
6	LEXAR EZ HALEX GT PEAK NIS (ACTIVATOR 90) N-PAK AMS	3.7 SC 4.38 CS 57 WG 100 SL 100 SL		1.39 lb ai/a 1.97 lb ai/a 0.0089 lb ai/a 0.25 % v/v 5 % v/v	1.5 qt/a 3.6 pt/a 0.25 oz/a 0.25 % v/v 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C C	7 a	82 cde	88 abc	20 cde	98 a	98 a
7	SOLIDA GLYFOS X-TRA N-PAK AMS	25 WG 3 SL 100 SL		0.0156 lb ai/a 0.75 lb ae/a 5 % v/v	1 oz/a 32 fl oz/a 5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B	B B B		63 g	53 d		96 a	95 a
8	DEGREE XTRA SOLIDA GLYFOS X-TRA N-PAK AMS	4.04 CS 25 WG 3 SL 100 SL		2.02 lb ai/a 0.0156 lb ai/a 0.75 lb ae/a 5 % v/v	2 qt/a 1 oz/a 32 fl oz/a 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C	7 a	73 ef	62 d	13 de	96 a	97 a
9	DEGREE XTRA ROUNDUP POWERMAX N-PAK AMS	4.04 CS 4.5 SL 100 SL		2.02 lb ai/a 0.77 lb ae/a 5 % v/v	2 qt/a 22 fl oz/a 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C	A C C	13 a	67 fg	62 d	27 cde	98 a	98 a
10	CORVUS AATREX	2.62 SC 4 SC		0.115 lb ai/a 1.5 lb ai/a	5.6 fl oz/a 1.5 qt/a		PRE PRE	A A	37 a	37 h	33 e	27 cde	25 e	17 e
11	CORVUS AATREX ROUNDUP POWERMAX N-PAK AMS	2.62 SC 4 SC 4.5 SL 100 SL		0.0614 lb ai/a 1 lb ai/a 0.77 lb ae/a 5 % v/v	3 fl oz/a 1 qt/a 22 fl oz/a 5 % v/v		PRE PRE 2-4"W-2 C 2-4"W-2 C	A A C C	17 a	84 bcd	82 bc	32 b-e	98 a	98 a
12	CAPRENO AATREX ROUNDUP POWERMAX N-PAK AMS	3.45 SC 4 SC 4.5 SL 100 SL		0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B 2-4"W-1 B	B B B B		85 bc	90 abc		98 a	98 a
13	INSTIGATE CINCH ATZ	45.84 WG 5.5 SC		0.172 lb ai/a 2.75 lb ai/a	6 oz/a 2 qt/a		PRE PRE	A A	17 a	22 i	15 f	87 a	53 c	43 c
14	PREQUEL REALM Q ABUNDIT EXTRA N-PAK AMS	45 WG 38.75 WG 3 SL 100 SL		0.0467 lb ai/a 0.097 lb ai/a 0.75 lb ae/a 5 % v/v	1.66 oz/a 4 oz/a 32 fl oz/a 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C	0 a	83 bcd	85 abc	60 ab	97 a	96 a

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 12-24B

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								IPOHE	IPOHE	IPOHE	SETFA	SETFA	SETFA	
								6-5-12 Control Percent 0 DA-B 0 DA-C	6-26-12 Control Percent 21 DA-B 21 DA-C	7-17-12 Control Percent 42 DA-B 42 DA-C	6-5-12 Control Percent 0 DA-B 0 DA-C	6-26-12 Control Percent 21 DA-B 21 DA-C	7-17-12 Control Percent 42 DA-B 42 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
15	VERDICT	5.57	EC	0.65 lb ai/a	15 fl oz/a		PRE	A	10 a	85 bc	87 abc	62 ab	97 a	96 a
	GUARDSMAN MAX	5	SE	0.94 lb ai/a	1.5 pt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W-2	C						
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		2-4"W-2	C						
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		2-4"W-2	C						
16	GUARDSMAN MAX	5	SE	2.5 lb ai/a	4 pt/a		2-4"W-1	B		91 ab	93 ab		97 a	97 a
	ARMEZON	2.8	SL	0.0164 lb ai/a	0.75 oz/a		2-4"W-1	B						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W-1	B						
	MSO (MSO ULTRA)	100	SL	1 % v/v	1 % v/v		2-4"W-1	B						
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		2-4"W-1	B						
17	ANTHEM ATZ	4.5	SE	0.98 lb ai/a	28 fl oz/a		2-4"W-1	B		75 def	78 c		96 a	97 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W-1	B						
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		2-4"W-1	B						
18	SURESTART	4.25	SE	1.06 lb ai/a	2 pt/a		PRE	A	0 a	82 cde	83 abc	43 bcd	98 a	98 a
	AATREX	4	SC	1 lb ai/a	1 qt/a		PRE	A						
	DURANGO DMA	4	SL	0.75 lb ae/a	24 fl oz/a		2-4"W-2	C						
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		2-4"W-2	C						
19	SURESTART	4.25	SE	1.06 lb ai/a	2 pt/a		2-4"W-1	B		78 cde	80 c		95 a	95 a
	AATREX	4	SC	1 lb ai/a	1 qt/a		2-4"W-1	B						
	DURANGO DMA	4	SL	0.75 lb ae/a	24 fl oz/a		2-4"W-1	B						
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		2-4"W-1	B						
20	DEGREE XTRA	4.04	CS	2.02 lb ai/a	2 qt/a		PRE	A	20 a	82 cde	81 bc	47 bc	96 a	96 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W-2	C						
	AATREX	4	SC	0.5 lb ai/a	1 pt/a		2-4"W-2	C						
	MSO (MSO ULTRA)	100	SL	0.5 % v/v	0.5 % v/v		2-4"W-2	C						
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		2-4"W-2	C						
21	NONTREATED								0 a	0 j	0 g	0 e	0 f	0 f
22	NONTREATED								0 a	0 j	0 g	0 e	0 f	0 f
LSD (P=.05)								22.2	9.3	12.0	31.8	7.4	11.8	
Standard Deviation								13.3	5.6	7.3	19.1	4.5	7.1	
CV								124.33	9.01	11.81	60.32	6.0	9.78	
Replicate F								0.969	2.307	3.888	4.823	1.054	1.286	
Replicate Prob(F)								0.3911	0.1121	0.0282	0.0153	0.3575	0.2871	
Treatment F								1.879	96.386	62.702	4.741	207.572	86.026	
Treatment Prob(F)								0.0690	0.0001	0.0001	0.0001	0.0001	0.0001	

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 12-24B

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								CYPES	CYPES	CYPES		
								6-5-12 Control Percent	6-26-12 Control Percent	7-17-12 Control Percent		
								0 DA-B 0 DA-C	21 DA-B 21 DA-C	42 DA-B 42 DA-C		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code			
1	NONTREATED									0 e	0 e	0 d
2	LEXAR EZ	3.7	SC	2.78 lb ai/a		3 qt/a		PRE	A	50 a	35 d	30 c
3	LEXAR EZ LEXAR EZ	3.7 3.7	SC SC	1.39 lb ai/a 1.39 lb ai/a		1.5 qt/a 1.5 qt/a		PRE 2-4"W-2 C	A C	42 abc	89 b	90 a
4	LEXAR EZ HALEX GT AATREX NIS (ACTIVATOR 90) N-PAK AMS	3.7 4.38 4 100 100	SC CS SC SL SL	1.39 lb ai/a 1.97 lb ai/a 1 lb ai/a 0.25 % v/v 5 % v/v		1.5 qt/a 3.6 pt/a 1 qt/a 0.25 % v/v 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C C	27 a-e	98 a	97 a
5	HALEX GT AATREX NIS (ACTIVATOR 90) N-PAK AMS	4.38 4 100 100	CS SC SL SL	1.97 lb ai/a 1 lb ai/a 0.25 % v/v 5 % v/v		3.6 pt/a 1 qt/a 0.25 % v/v 5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B 2-4"W-1 B			96 a	95 a
6	LEXAR EZ HALEX GT PEAK NIS (ACTIVATOR 90) N-PAK AMS	3.7 4.38 57 100 100	SC CS WG SL SL	1.39 lb ai/a 1.97 lb ai/a 0.0089 lb ai/a 0.25 % v/v 5 % v/v		1.5 qt/a 3.6 pt/a 0.25 oz/a 0.25 % v/v 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C C	42 abc	98 a	97 a
7	SOLIDA GLYFOS X-TRA N-PAK AMS	25 3 100	WG SL SL	0.0156 lb ai/a 0.75 lb ae/a 5 % v/v		1 oz/a 32 fl oz/a 5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B			97 a	98 a
8	DEGREE XTRA SOLIDA GLYFOS X-TRA N-PAK AMS	4.04 25 3 100	CS WG SL SL	2.02 lb ai/a 0.0156 lb ai/a 0.75 lb ae/a 5 % v/v		2 qt/a 1 oz/a 32 fl oz/a 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C	30 a-d	95 ab	95 a
9	DEGREE XTRA ROUNDUP POWERMAX N-PAK AMS	4.04 4.5 100	CS SL SL	2.02 lb ai/a 0.77 lb ae/a 5 % v/v		2 qt/a 22 fl oz/a 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C	A C C	43 abc	96 a	95 a
10	CORVUS AATREX	2.62 4	SC SC	0.115 lb ai/a 1.5 lb ai/a		5.6 fl oz/a 1.5 qt/a		PRE PRE	A A	27 a-e	53 c	47 b
11	CORVUS AATREX ROUNDUP POWERMAX N-PAK AMS	2.62 4 4.5 100	SC SC SL SL	0.0614 lb ai/a 1 lb ai/a 0.77 lb ae/a 5 % v/v		3 fl oz/a 1 qt/a 22 fl oz/a 5 % v/v		PRE PRE 2-4"W-2 C 2-4"W-2 C	A A C C	18 cde	94 ab	92 a
12	CAPRENO AATREX ROUNDUP POWERMAX N-PAK AMS	3.45 4 4.5 100	SC SC SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 5 % v/v		3 fl oz/a 1.5 qt/a 22 fl oz/a 5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B 2-4"W-1 B			94 ab	94 a
13	INSTIGATE CINCH ATZ	45.84 5.5	WG SC	0.172 lb ai/a 2.75 lb ai/a		6 oz/a 2 qt/a		PRE PRE	A A	53 a	30 d	27 c
14	PREQUEL REALM Q ABUNDIT EXTRA N-PAK AMS	45 38.75 3 100	WG WG SL SL	0.0467 lb ai/a 0.097 lb ai/a 0.75 lb ae/a 5 % v/v		1.66 oz/a 4 oz/a 32 fl oz/a 5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C	47 ab	93 ab	95 a

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 12-24B

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code								CYPES	CYPES	CYPES	
Crop Code								6-5-12	6-26-12	7-17-12	
Rating Date								Control	Control	Control	
Rating Type								Percent	Percent	Percent	
Rating Unit								0 DA-B	21 DA-B	42 DA-B	
Rating Timing								0 DA-C	21 DA-C	42 DA-C	
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage	Appl Code			
15	VERDICT	5.57	EC	0.65 lb ai/a	15 fl oz/a		PRE	A	20 b-e	94 ab	93 a
	GUARDSMAN MAX	5	SE	0.94 lb ai/a	1.5 pt/a		PRE	A			
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W-2	C			
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		2-4"W-2	C			
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		2-4"W-2	C			
16	GUARDSMAN MAX	5	SE	2.5 lb ai/a	4 pt/a		2-4"W-1	B		97 a	95 a
	ARMEZON	2.8	SL	0.0164 lb ai/a	0.75 oz/a		2-4"W-1	B			
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W-1	B			
	MSO (MSO ULTRA)	100	SL	1 % v/v	1 % v/v		2-4"W-1	B			
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		2-4"W-1	B			
17	ANTHEM ATZ	4.5	SE	0.98 lb ai/a	28 fl oz/a		2-4"W-1	B		95 ab	95 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W-1	B			
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		2-4"W-1	B			
18	SURESTART	4.25	SE	1.06 lb ai/a	2 pt/a		PRE	A	13 de	96 ab	94 a
	AATREX	4	SC	1 lb ai/a	1 qt/a		PRE	A			
	DURANGO DMA	4	SL	0.75 lb ae/a	24 fl oz/a		2-4"W-2	C			
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		2-4"W-2	C			
19	SURESTART	4.25	SE	1.06 lb ai/a	2 pt/a		2-4"W-1	B		95 ab	95 a
	AATREX	4	SC	1 lb ai/a	1 qt/a		2-4"W-1	B			
	DURANGO DMA	4	SL	0.75 lb ae/a	24 fl oz/a		2-4"W-1	B			
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		2-4"W-1	B			
20	DEGREE XTRA	4.04	CS	2.02 lb ai/a	2 qt/a		PRE	A	10 de	96 ab	92 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W-2	C			
	AATREX	4	SC	0.5 lb ai/a	1 pt/a		2-4"W-2	C			
	MSO (MSO ULTRA)	100	SL	0.5 % v/v	0.5 % v/v		2-4"W-2	C			
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		2-4"W-2	C			
21	NONTREATED								0 e	0 e	0 d
22	NONTREATED								0 e	0 e	0 d
LSD (P=.05)								27.2	6.6	8.1	
Standard Deviation								16.3	4.0	4.9	
CV								61.67	5.37	6.65	
Replicate F								5.024	1.727	7.442	
Replicate Prob(F)								0.0137	0.1901	0.0017	
Treatment F								3.858	245.424	168.296	
Treatment Prob(F)								0.0010	0.0001	0.0001	

General Corn Herbicide Comparison.

Trial ID: 12-24B

Location: Belleville Res. Center

Investigator: Bryan Young

Trial Comments

1. Protocol: Syngenta, Cheminova (HZEAMXRIM1201), Bayer, DuPont, BASF, AMVAC, Dow, FMC, and Monsanto.
2. Ratings: CI at 7 and 14 DA-B and DA-C; CI/WC at 21 DAP and at 0, 21, and 42 DA-C.
3. Yield.
4. Rainfall following the PRE application was 0.18 inch 4 days later and 0.28 inch 14 days later.
5. Harvested 10-9-12, (2) 30 inch rows by 24 ft.