

Corn, Tilled Weed Control Studies

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 13-2C-ME90 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Status: F one-year/final Initiation Date: 6-15-13 Completion Date: 11-8-13	Trial Location City: Belleville Country: USA State/Prov.: Illinois IL Postal Code: 62221
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Objectives:
Evaluate herbicide programs for weed control in reduced-till corn.

Study Director: Bryan Young Organization: Southern Illinois University Address: 1205 Lincoln Drive - AG 176 - MC 4415 City+State/Prov: Carbondale IL Postal Code: 62901 Country: USA	Title: Professor Phone No.: 618-453-7679 Mobile No.: 618-713-6471 E-mail: bgyoung@siu.edu
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Crop 1: ZEAMD Zea mays indentata Dent corn Variety: DKC 63-33 Description: SS RIB Planting Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN Row Spacing, Unit: 30 IN	Crop Description Planting Date: 6-15-13 Planting Method: SEEDED
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Pest 1 Type: W Code: XANST <i>Xanthium strumarium</i> L. Common Name: cocklebur, common	Pest Description
Pest 2 Type: W Code: ABUTH <i>Abutilon theophrasti</i> Medik. Common Name: velvetleaf	
Pest 3 Type: W Code: AMBEL <i>Ambrosia artemisiifolia</i> L. Common Name: ragweed, common	
Pest 4 Type: W Code: IPOHE <i>Ipomoea hederacea</i> (L.) Jacq. Common Name: morningglory, ivyleaf	
Pest 5 Type: W Code: PANDI <i>Panicum dichotomiflorum</i> Michx. Common Name: panicum, fall	

Treated Plot Width: 7.5 FT Total Plot Width: 10 FT Treated Plot Length: 28 FT Total Plot Length: 28 FT	Site and Design Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB� Randomized Complete Block (RCB)						
Replications: 3 Untreated Arrangement: INCLUDED single control randomized in each block							
<table><tr><th>No.</th><th>Previous Crop</th><th>Year</th></tr><tr><td>1.</td><td>NON-CROP</td><td>2012</td></tr></table>	No.	Previous Crop	Year	1.	NON-CROP	2012	
No.	Previous Crop	Year					
1.	NON-CROP	2012					

<table><tr><th>No.</th><th>Maintenance Product Name</th></tr><tr><td>1.</td><td>N 150 LB/A, P2O5 50 LB/A, K2O 100 LB/A</td></tr></table>	No.	Maintenance Product Name	1.	N 150 LB/A, P2O5 50 LB/A, K2O 100 LB/A	Maintenance
No.	Maintenance Product Name				
1.	N 150 LB/A, P2O5 50 LB/A, K2O 100 LB/A				

% OM: 2.7 Texture: SIL silt loam pH: 6.1 Soil Name: Pierron CEC: 7	Soil Description									
<table><tr><th>Element</th><th>Quantity</th><th>Unit</th></tr><tr><td>P1</td><td>68</td><td>lb/A</td></tr><tr><td>K</td><td>322</td><td>lb/A</td></tr></table>	Element	Quantity	Unit	P1	68	lb/A	K	322	lb/A	Additional Measured Elements
Element	Quantity	Unit								
P1	68	lb/A								
K	322	lb/A								

Overall Moisture Conditions: ABONOR Closest Weather Station: ICN - Belleville IL	Moisture and Weather Conditions Distance, Unit: 0.5 MI
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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	6-2-13					7	DAY	50	80	F
2.	6-9-13					7	DAY	59	94	F
3.	6-10-13	0.48	IN	RAIN	rain	2	DAY			
4.	6-16-13					7	DAY	61	90	F
5.	6-17-13	2.16	IN	RAIN	rain	3	DAY			
6.	6-23-13					7	DAY	64	92	F
7.	6-23-13	5.33	IN	RAIN	rain	2	DAY			
8.	6-26-13	0.46	IN	RAIN	rain	1	DAY			
9.	6-29-13	0.19	IN	RAIN	rain	2	DAY			
10.	6-30-13					7	DAY	61	86	F
11.	7-2-13	2.08	IN	RAIN	rain	2	DAY			
12.	7-7-13					7	DAY	62	94	F
13.	7-10-13	0.2	IN	RAIN	rain	1	DAY			
14.	7-14-13					7	DAY	64	94	F
15.	7-15-13	0.03	IN	RAIN	rain	1	DAY			
16.	7-20-13	0.59	IN	RAIN	rain	1	DAY			
17.	7-21-13					7	DAY	56	91	F
18.	7-26-13	0.03	IN	RAIN	rain	1	DAY			
19.	7-28-13					7	DAY	52	87	F
20.	7-30-13	0.46	IN	RAIN	rain	1	DAY			
21.	8-2-13	0.24	IN	RAIN	rain	1	DAY			
22.	8-4-13					7	DAY	62	87	F
23.	8-8-13	0.03	IN	RAIN	rain	3	DAY			
24.	8-11-13					7	DAY	54	85	F
25.	8-12-13	0.57	IN	RAIN	rain	1	DAY			
26.	8-18-13	0.1	IN	RAIN	rain	1	DAY			
27.	8-18-13					7	DAY	61	91	F
28.	8-25-13					7	DAY	62	100	F
29.	8-31-13	0.74	IN	RAIN	rain	1	DAY			
30.	9-1-13					7	DAY	57	92	F
31.	9-8-13	0.26	IN	RAIN	rain	1	DAY			

Application Description

	A	B	C
Application Date:	6-15-13	7-1-13	7-9-13
Appl. Start Time:	20:00	17:00	6:00
Appl. Stop Time:	21:00	17:15	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:	LXF	RFK	RJW
Air Temperature, Unit:	79 F	73 F	77 F
% Relative Humidity:	69	66	88
Wind Velocity, Unit:	3 MPH	4 MPH	1 MPH
Wind Direction:	S	N	E
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	73 F	73 F	79 F
Soil Moisture:	NORMAL	ABONOR	ABONOR
% Cloud Cover:	80	100	80
Next Moisture Occurred On:	6-15-13	7-1-13	7-10-13
Time to Next Moisture, Unit:	1 HR	5 HR	24 HR

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Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMD	ZEAMD	ZEAMD
Stage Scale Used:	DESC	DESC	DESC
Stage Majority, Percent:	NA	V4	V6
Stage Minimum, Percent:		V4	V5
Stage Maximum, Percent:		V4	V6
Height, Unit:		8 IN	15 IN
Height Minimum, Maximum:		6 8	14 15

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	XANST W	XANST W	XANST W
Stage Majority, Percent:	NA	5	5
Stage Minimum, Percent:		5	2
Stage Maximum, Percent:		6	6
Height, Unit:		3 IN	4 IN
Height Minimum, Maximum:		1 4	2 6
Density, Unit:		0.01 FT2	0.01 FT2
Pest 2 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:	NA	6	2
Stage Minimum, Percent:		5	COTY
Stage Maximum, Percent:		6	4
Height, Unit:		2 IN	2 IN
Height Minimum, Maximum:		1 3	1 3
Density, Unit:		0.01 FT2	0.001 FT2
Pest 3 Code, Type, Scale:	AMBEL W	AMBEL W	AMBEL W
Stage Majority, Percent:	NA	4	NA
Stage Minimum, Percent:		2	
Stage Maximum, Percent:		4	
Height, Unit:		2 IN	
Height Minimum, Maximum:		1 3	
Density, Unit:		0.01 FT2	
Pest 4 Code, Type, Scale:	IPOHE W	IPOHE W	IPOHE W
Stage Majority, Percent:	NA	8	2
Stage Minimum, Percent:		6	COTY
Stage Maximum, Percent:		8	4
Height, Unit:		3 IN	2 IN
Height Minimum, Maximum:		1 3	1 3
Density, Unit:		0.1 FT2	0.03 FT2
Pest 5 Code, Type, Scale:	PANDI W	PANDI W	PANDI W
Stage Majority, Percent:	NA	4	4
Stage Minimum, Percent:		2	2
Stage Maximum, Percent:		5	6
Height, Unit:		3 IN	6 IN
Height Minimum, Maximum:		1 4	1 10
Density, Unit:		1 FT2	1 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								ZEAMD 11-8-13 Moisture Percent	ZEAMD 11-8-13 Test wt. lb/bu	ZEAMD 11-8-13 Yield bu/A	ZEAMD 7-5-13 Injury Percent	ZEAMD 7-5-13 Necrosis Percent	ZEAMD 7-5-13 Chlorosis Percent	ZEAMD 7-5-13 Stunt Percent
Trt-Eval Interval											4 DA-B	4 DA-B	4 DA-B	4 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Unit Stage	Appl Code						
1	NONTREATED								23.4 a	55.1 a	173 a	0 a	0 a	0 a
2	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.6 lb ai/a 0.75 lb ae/a 2.5 % v/v	3 pt/a 1.5 pt/a 2.5 % v/v		PRE A 2-4"W-2 C 2-4"W-2 C		25.3 a	54.4 a	180 a	0 a	0 a	0 a
3	SURESTART AATREX 4L DURANGO DMA N-PAK AMS	4.25 SE 4 SC 4 SL 100 SL		1.6 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v	3 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE A PRE A 2-4"W-2 C 2-4"W-2 C		24.6 a	54.6 a	178 a	0 a	0 a	0 a
4	KEYSTONE NXT HORNET WDG	5.6 SE 68.5 WG		3.36 lb ai/a 0.128 lb ai/a	2.4 qt/a 3 oz/a		PRE A PRE A		25.7 a	54.2 a	180 a	0 a	0 a	0 a
5	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.06 lb ai/a 0.75 lb ae/a 2.5 % v/v	2 pt/a 1.5 pt/a 2.5 % v/v		PRE A 2-4"W-2 C 2-4"W-2 C		23.0 a	55.2 a	202 a	0 a	0 a	0 a
6	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.33 lb ai/a 0.75 lb ae/a 2.5 % v/v	2.5 pt/a 1.5 pt/a 2.5 % v/v		PRE A 2-4"W-2 C 2-4"W-2 C		24.1 a	54.8 a	190 a	0 a	0 a	0 a
7	SURESTART AATREX 4L DURANGO DMA N-PAK AMS	4.25 SE 4 SC 4 SL 100 SL		1.33 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v	2.5 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE A PRE A 2-4"W-2 C 2-4"W-2 C		24.8 a	54.7 a	196 a	0 a	0 a	0 a
8	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.06 lb ai/a 0.75 lb ae/a 2.5 % v/v	2 pt/a 1.5 pt/a 2.5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B		23.6 a	55.0 a	192 a	0 a	0 a	0 a
9	LEXAR EZ	3.7 SC		2.78 lb ai/a	3 qt/a		PRE A		24.3 a	54.8 a	206 a	0 a	0 a	0 a
10	LEXAR EZ PRINCEP 4L	3.7 SC 4 SC		2.78 lb ai/a 1 lb ai/a	3 qt/a 1 qt/a		PRE A PRE A		24.6 a	54.7 a	193 a	0 a	0 a	0 a
11	CORVUS AATREX 4L	2.63 SC 4 SC		0.115 lb ai/a 1.5 lb ai/a	5.6 fl oz/a 1.5 qt/a		PRE A PRE A		24.1 a	54.8 a	188 a	0 a	0 a	0 a
12	ZIDUA AATREX 4L	85 WG 4 SC		0.133 lb ai/a 1.5 lb ai/a	2.5 oz/a 1.5 qt/a		PRE A PRE A		24.8 a	54.6 a	185 a	0 a	0 a	0 a
13	FIERCE AATREX 4L	76 WG 4 SC		0.143 lb ai/a 1.5 lb ai/a	3 oz/a 1.5 qt/a		PRE A PRE A		24.4 a	54.7 a	197 a	0 a	0 a	0 a
14	ANTHEM ATZ	4.5 SE		1.13 lb ai/a	32 fl oz/a		PRE A		25.3 a	54.4 a	180 a	0 a	0 a	0 a
15	LEXAR EZ HALEX GT NIS (ACTIVATOR 90) N-PAK AMS	3.7 SC 4.389 CS 100 SL 100 SL		1.39 lb ai/a 1.98 lb ai/a 0.25 % v/v 2.5 % v/v	1.5 qt/a 3.6 pt/a 0.25 % v/v 2.5 % v/v		PRE A 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C		23.6 a	55.0 a	210 a	0 a	0 a	0 a
16	SOLIDA GLYFOS X-TRA N-PAK AMS	25 WG 3 SL 100 SL		0.0156 lb ai/a 0.75 lb ae/a 2.5 % v/v	1 oz/a 32 fl oz/a 2.5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B		24.2 a	54.8 a	205 a	1 a	0 a	1 a

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.

Missing data estimates are included in

columns: Average=2,3,5,10,11,12,13,14,15,16,17,28,34,40,19,23,29,35,41,20,24,30,36,42,21,25,31,37,43,22,26,32,38,44,27,33,39,45

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Trial ID: 13-2C-ME90 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code								ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD
Crop Code								11-8-13	11-8-13	11-8-13	7-5-13	7-5-13	7-5-13	7-5-13
Rating Date								Moisture	Test wt.	Yield	Injury	Necrosis	Chlorosis	Stunt
Rating Type								Percent	lb/bu	bu/A	Percent	Percent	Percent	Percent
Rating Unit														
Rating Timing														
Trt-Eval Interval											4 DA-B	4 DA-B	4 DA-B	4 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage	Appl Code						
17	HARROW	75 WG	0.0155	lb ai/a	0.33 oz/a		2-4"W-1 B		24.3 a	54.8 a	202 a	0 a	0 a	0 a
	GLYFOS X-TRA	3 SL	0.75	lb ae/a	32 fl oz/a		2-4"W-1 B							
	NIS (ACTIVATOR 90)	100 SL	0.25	% v/v	0.25 % v/v		2-4"W-1 B							
	N-PAK AMS	100 SL	2.5	% v/v	2.5 % v/v		2-4"W-1 B							
LSD (P=.05)									2.11	0.69	26.2	0.8	0.0	0.8
Standard Deviation									1.24	0.40	15.4	0.5	0.0	0.5
CV									5.11	0.74	8.05	807.96	0.0	807.96
Replicate F									0.168	0.056	0.662	0.781	0.000	0.781
Replicate Prob(F)									0.8469	0.9454	0.5261	0.4687	1.0000	0.4687
Treatment F									0.954	1.117	1.558	0.781	0.000	0.781
Treatment Prob(F)									0.5312	0.3997	0.1690	0.6914	1.0000	0.6914

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	ZEAMD 7-8-13 Injury Percent -1 DA-C	ZEAMD 7-8-13 Necrosis Percent -1 DA-C	ZEAMD 7-8-13 Chlorosis Percent -1 DA-C	ZEAMD 7-8-13 Stunt Percent -1 DA-C	ZEAMD 7-23-13 Injury Percent 14 DA-C	ZEAMD 7-29-13 Injury Percent 20 DA-C	ZEAMD 8-6-13 Injury Percent
							7 DA-B	7 DA-B	7 DA-B	7 DA-B	22 DA-B	28 DA-B	28 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 a	0 a	0 a
2	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.6 lb ai/a 0.75 lb ae/a 2.5 % v/v	3 pt/a 1.5 pt/a 2.5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C	A	0 a	0 a	0 a	2 a	0 a
3	SURESTART AATREX 4L DURANGO DMA N-PAK AMS	4.25 SE 4 SC 4 SL 100 SL		1.6 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v	3 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE PRE 2-4"W-2 C 2-4"W-2 C	A A	0 a	0 a	0 a	3 a	0 a
4	KEYSTONE NXT HORNET WDG	5.6 SE 68.5 WG		3.36 lb ai/a 0.128 lb ai/a	2.4 qt/a 3 oz/a		PRE PRE	A A	0 a	0 a	0 a	1 a	0 a
5	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.06 lb ai/a 0.75 lb ae/a 2.5 % v/v	2 pt/a 1.5 pt/a 2.5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C	A	0 a	0 a	0 a	0 a	0 a
6	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.33 lb ai/a 0.75 lb ae/a 2.5 % v/v	2.5 pt/a 1.5 pt/a 2.5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C	A	0 a	0 a	0 a	2 a	0 a
7	SURESTART AATREX 4L DURANGO DMA N-PAK AMS	4.25 SE 4 SC 4 SL 100 SL		1.33 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v	2.5 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE PRE 2-4"W-2 C 2-4"W-2 C	A A	0 a	0 a	0 a	2 a	0 a
8	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.06 lb ai/a 0.75 lb ae/a 2.5 % v/v	2 pt/a 1.5 pt/a 2.5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B		0 a	0 a	0 a	0 a	0 a
9	LEXAR EZ	3.7 SC		2.78 lb ai/a	3 qt/a		PRE	A	0 a	0 a	0 a	0 a	0 a
10	LEXAR EZ PRINCEP 4L	3.7 SC 4 SC		2.78 lb ai/a 1 lb ai/a	3 qt/a 1 qt/a		PRE PRE	A A	0 a	0 a	0 a	0 a	0 a
11	CORVUS AATREX 4L	2.63 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 a	0 a	0 a
12	ZIDUA AATREX 4L	85 WG 4 SC		0.133 lb ai/a 1.5 lb ai/a	2.5 oz/a 1.5 qt/a		PRE PRE	A A	0 a	0 a	0 a	0 a	0 a
13	FIERCE AATREX 4L	76 WG 4 SC		0.143 lb ai/a 1.5 lb ai/a	3 oz/a 1.5 qt/a		PRE PRE	A A	0 a	0 a	0 a	0 a	0 a
14	ANTHEM ATZ	4.5 SE		1.13 lb ai/a	32 fl oz/a		PRE	A	0 a	0 a	0 a	0 a	0 a
15	LEXAR EZ HALEX GT NIS (ACTIVATOR 90) N-PAK AMS	3.7 SC 4.389 CS 100 SL 100 SL		1.39 lb ai/a 1.98 lb ai/a 0.25 % v/v 2.5 % v/v	1.5 qt/a 3.6 pt/a 0.25 % v/v 2.5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A	0 a	0 a	0 a	1 a	0 a
16	SOLIDA GLYFOS X-TRA N-PAK AMS	25 WG 3 SL 100 SL		0.0156 lb ai/a 0.75 lb ae/a 2.5 % v/v	1 oz/a 32 fl oz/a 2.5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B		0 a	0 a	0 a	0 a	0 a

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Pest Code										XANST	XANST	XANST	XANST	XANST
Crop Code										7-9-13	7-14-13	7-23-13	7-29-13	8-6-13
Rating Date										Control	Control	Control	Control	Control
Rating Type										Percent	Percent	Percent	Percent	Percent
Rating Unit										0 DA-C		14 DA-C	20 DA-C	
Rating Timing														
Trt-Eval Interval										8 DA-B	13 DA-B	22 DA-B	28 DA-B	28 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED									0 d	0 c	0 c	0 c	0 c
2	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.6 lb ai/a 0.75 lb ae/a 2.5 % v/v		3 pt/a 1.5 pt/a 2.5 % v/v		PRE A 2-4"W-2 C 2-4"W-2 C		97 ab	98 a	98 a	98 a	99 a
3	SURESTART AATREX 4L DURANGO DMA N-PAK AMS	4.25 SE 4 SC 4 SL 100 SL		1.6 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v		3 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE A PRE A 2-4"W-2 C 2-4"W-2 C		98 ab	99 a	99 a	99 a	99 a
4	KEYSTONE NXT HORNET WDG	5.6 SE 68.5 WG		3.36 lb ai/a 0.128 lb ai/a		2.4 qt/a 3 oz/a		PRE A PRE A		97 ab	96 ab	95 a	94 a	95 a
5	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.06 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		PRE A 2-4"W-2 C 2-4"W-2 C		99 a	99 a	99 a	98 a	99 a
6	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.33 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1.5 pt/a 2.5 % v/v		PRE A 2-4"W-2 C 2-4"W-2 C		99 a	99 a	99 a	98 a	98 a
7	SURESTART AATREX 4L DURANGO DMA N-PAK AMS	4.25 SE 4 SC 4 SL 100 SL		1.33 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE A PRE A 2-4"W-2 C 2-4"W-2 C		98 ab	99 a	99 a	99 a	99 a
8	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.06 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B		99 a	99 a	99 a	99 a	99 a
9	LEXAR EZ	3.7 SC		2.78 lb ai/a		3 qt/a		PRE A		99 a	98 a	98 a	97 a	97 a
10	LEXAR EZ PRINCEP 4L	3.7 SC 4 SC		2.78 lb ai/a 1 lb ai/a		3 qt/a 1 qt/a		PRE A PRE A		99 a	99 a	99 a	99 a	99 a
11	CORVUS AATREX 4L	2.63 SC 4 SC		0.115 lb ai/a 1.5 lb ai/a		5.6 fl oz/a 1.5 qt/a		PRE A PRE A		99 a	99 a	99 a	99 a	99 a
12	ZIDUA AATREX 4L	85 WG 4 SC		0.133 lb ai/a 1.5 lb ai/a		2.5 oz/a 1.5 qt/a		PRE A PRE A		94 c	94 b	90 b	76 b	76 b
13	FIERCE AATREX 4L	76 WG 4 SC		0.143 lb ai/a 1.5 lb ai/a		3 oz/a 1.5 qt/a		PRE A PRE A		97 b	97 ab	98 a	95 a	95 a
14	ANTHEM ATZ	4.5 SE		1.13 lb ai/a		32 fl oz/a		PRE A		97 ab	97 ab	97 a	96 a	97 a
15	LEXAR EZ HALEX GT NIS (ACTIVATOR 90) N-PAK AMS	3.7 SC 4.389 CS 100 SL 100 SL		1.39 lb ai/a 1.98 lb ai/a 0.25 % v/v 2.5 % v/v		1.5 qt/a 3.6 pt/a 0.25 % v/v 2.5 % v/v		PRE A 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C		98 ab	99 a	99 a	99 a	99 a
16	SOLIDA GLYFOS X-TRA N-PAK AMS	25 WG 3 SL 100 SL		0.0156 lb ai/a 0.75 lb ae/a 2.5 % v/v		1 oz/a 32 fl oz/a 2.5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B		99 a	99 a	99 a	99 a	99 a

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 13-2C-ME90 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code									XANST	XANST	XANST	XANST	XANST
Crop Code									7-9-13	7-14-13	7-23-13	7-29-13	8-6-13
Rating Date									Control	Control	Control	Control	Control
Rating Type									Percent	Percent	Percent	Percent	Percent
Rating Unit									0 DA-C		14 DA-C	20 DA-C	
Rating Timing													
Trt-Eval Interval									8 DA-B	13 DA-B	22 DA-B	28 DA-B	28 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Growth Unit Stage	Appl Code				
17	HARROW	75 WG	0.0155	lb ai/a	0.33	oz/a		2-4"W-1 B					
	GLYFOS X-TRA	3 SL	0.75	lb ae/a	32	fl oz/a		2-4"W-1 B					
	NIS (ACTIVATOR 90)	100 SL	0.25	% v/v	0.25	% v/v		2-4"W-1 B					
	N-PAK AMS	100 SL	2.5	% v/v	2.5	% v/v		2-4"W-1 B					
LSD (P=.05)									2.2	3.4	4.5	10.5	10.3
Standard Deviation									1.3	2.0	2.7	6.3	6.2
CV									1.43	2.22	2.94	6.91	6.77
Replicate F									2.822	1.737	0.854	0.827	0.834
Replicate Prob(F)									0.0759	0.1958	0.4363	0.4475	0.4446
Treatment F									971.147	407.178	232.548	44.106	45.817
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0001

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 13-2C-ME90 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								ABUTH 7-9-13 Control Percent 0 DA-C	ABUTH 7-14-13 Control Percent	ABUTH 7-23-13 Control Percent 14 DA-C	ABUTH 7-29-13 Control Percent 20 DA-C	ABUTH 8-6-13 Control Percent
								8 DA-B	13 DA-B	22 DA-B	28 DA-B	28 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	NONTREATED									0 c	0 e	0 f
2	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.6 lb ai/a 0.75 lb ae/a 2.5 % v/v		3 pt/a 1.5 pt/a 2.5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C	A	99 a	97 abc	98 abc
3	SURESTART AATREX 4L DURANGO DMA N-PAK AMS	4.25 SE 4 SC 4 SL 100 SL		1.6 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v		3 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE PRE 2-4"W-2 C 2-4"W-2 C	A A	99 a	97 ab	99 ab
4	KEYSTONE NXT HORNET WDG	5.6 SE 68.5 WG		3.36 lb ai/a 0.128 lb ai/a		2.4 qt/a 3 oz/a		PRE PRE	A A	98 ab	97 ab	98 a-d
5	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.06 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C	A	98 ab	96 abc	98 a-d
6	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.33 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1.5 pt/a 2.5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C	A	98 ab	96 abc	98 a-d
7	SURESTART AATREX 4L DURANGO DMA N-PAK AMS	4.25 SE 4 SC 4 SL 100 SL		1.33 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE PRE 2-4"W-2 C 2-4"W-2 C	A A	99 a	98 ab	99 ab
8	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.06 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B		97 b	96 abc	99 a
9	LEXAR EZ	3.7 SC		2.78 lb ai/a		3 qt/a		PRE	A	99 a	99 a	99 a
10	LEXAR EZ PRINCEP 4L	3.7 SC 4 SC		2.78 lb ai/a 1 lb ai/a		3 qt/a 1 qt/a		PRE PRE	A A	99 a	99 a	99 ab
11	CORVUS AATREX 4L	2.63 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	99 a	97 abc	99 ab
12	ZIDUA AATREX 4L	85 WG 4 SC		0.133 lb ai/a 1.5 lb ai/a		2.5 oz/a 1.5 qt/a		PRE PRE	A A	99 a	94 bcd	96 de
13	FIERCE AATREX 4L	76 WG 4 SC		0.143 lb ai/a 1.5 lb ai/a		3 oz/a 1.5 qt/a		PRE PRE	A A	99 a	96 abc	98 a-d
14	ANTHEM ATZ	4.5 SE		1.13 lb ai/a		32 fl oz/a		PRE	A	99 a	95 bcd	97 cde
15	LEXAR EZ HALEX GT NIS (ACTIVATOR 90) N-PAK AMS	3.7 SC 4.389 CS 100 SL 100 SL		1.39 lb ai/a 1.98 lb ai/a 0.25 % v/v 2.5 % v/v		1.5 qt/a 3.6 pt/a 0.25 % v/v 2.5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A	99 a	99 a	99 a
16	SOLIDA GLYFOS X-TRA N-PAK AMS	25 WG 3 SL 100 SL		0.0156 lb ai/a 0.75 lb ae/a 2.5 % v/v		1 oz/a 32 fl oz/a 2.5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B		98 ab	93 cd	97 b-e

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 13-2C-ME90 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code								ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code								7-9-13	7-14-13	7-23-13	7-29-13	8-6-13
Rating Date								Control	Control	Control	Control	Control
Rating Type								Percent	Percent	Percent	Percent	Percent
Rating Unit								0 DA-C		14 DA-C	20 DA-C	
Rating Timing												
Trt-Eval Interval								8 DA-B	13 DA-B	22 DA-B	28 DA-B	28 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Stage	Appl Code		
17	HARROW	75 WG	0.0155	lb ai/a	0.33 oz/a	2-4"W-1 B						
	GLYFOS X-TRA	3 SL	0.75	lb ae/a	32 fl oz/a	2-4"W-1 B						
	NIS (ACTIVATOR 90)	100 SL	0.25	% v/v	0.25 % v/v	2-4"W-1 B						
	N-PAK AMS	100 SL	2.5	% v/v	2.5 % v/v	2-4"W-1 B						
LSD (P=.05)								1.6	3.6	1.7	4.9	4.9
Standard Deviation								0.9	2.1	1.0	3.0	3.0
CV								1.01	2.37	1.12	3.24	3.26
Replicate F								1.428	0.738	1.446	1.797	1.944
Replicate Prob(F)								0.2562	0.4880	0.2519	0.1837	0.1613
Treatment F								1952.467	358.229	1598.694	191.229	188.950
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	0.0001

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 13-2C-ME90 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	AMBEL 7-9-13 Control Percent 0 DA-C	AMBEL 7-14-13 Control Percent	AMBEL 7-23-13 Control Percent 14 DA-C	AMBEL 7-29-13 Control Percent 20 DA-C	AMBEL 8-6-13 Control Percent
							8 DA-B	13 DA-B	22 DA-B	28 DA-B	28 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	NONTREATED									0 b	0 c
2	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.6 lb ai/a 0.75 lb ae/a 2.5 % v/v		3 pt/a 1.5 pt/a 2.5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C	A C C	99 a	98 a
3	SURESTART AATREX 4L DURANGO DMA N-PAK AMS	4.25 SE 4 SC 4 SL 100 SL		1.6 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v		3 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE PRE 2-4"W-2 C 2-4"W-2 C	A A C C	99 a	99 a
4	KEYSTONE NXT HORNET WDG	5.6 SE 68.5 WG		3.36 lb ai/a 0.128 lb ai/a		2.4 qt/a 3 oz/a		PRE PRE	A A	98 a	98 a
5	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.06 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C	A C C	98 a	98 a
6	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.33 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1.5 pt/a 2.5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C	A C C	99 a	99 a
7	SURESTART AATREX 4L DURANGO DMA N-PAK AMS	4.25 SE 4 SC 4 SL 100 SL		1.33 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE PRE 2-4"W-2 C 2-4"W-2 C	A A C C	99 a	99 a
8	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.06 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B	B B B	99 a	99 a
9	LEXAR EZ	3.7 SC		2.78 lb ai/a		3 qt/a		PRE	A	99 a	99 a
10	LEXAR EZ PRINCEP 4L	3.7 SC 4 SC		2.78 lb ai/a 1 lb ai/a		3 qt/a 1 qt/a		PRE PRE	A A	99 a	97 a
11	CORVUS AATREX 4L	2.63 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	98 a	98 a
12	ZIDUA AATREX 4L	85 WG 4 SC		0.133 lb ai/a 1.5 lb ai/a		2.5 oz/a 1.5 qt/a		PRE PRE	A A	98 a	91 b
13	FIERCE AATREX 4L	76 WG 4 SC		0.143 lb ai/a 1.5 lb ai/a		3 oz/a 1.5 qt/a		PRE PRE	A A	97 a	95 ab
14	ANTHEM ATZ	4.5 SE		1.13 lb ai/a		32 fl oz/a		PRE	A	98 a	92 b
15	LEXAR EZ HALEX GT NIS (ACTIVATOR 90) N-PAK AMS	3.7 SC 4.389 CS 100 SL 100 SL		1.39 lb ai/a 1.98 lb ai/a 0.25 % v/v 2.5 % v/v		1.5 qt/a 3.6 pt/a 0.25 % v/v 2.5 % v/v		PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C	99 a	99 a
16	SOLIDA GLYFOS X-TRA N-PAK AMS	25 WG 3 SL 100 SL		0.0156 lb ai/a 0.75 lb ae/a 2.5 % v/v		1 oz/a 32 fl oz/a 2.5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B	B B B	98 a	99 a

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 13-2C-ME90 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code									AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Crop Code									7-9-13	7-14-13	7-23-13	7-29-13	8-6-13
Rating Date									Control	Control	Control	Control	Control
Rating Type									Percent	Percent	Percent	Percent	Percent
Rating Unit									0 DA-C		14 DA-C	20 DA-C	
Rating Timing													
Trt-Eval Interval									8 DA-B	13 DA-B	22 DA-B	28 DA-B	28 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit Stage	Appl Code				
17	HARROW	75 WG	0.0155	lb ai/a	0.33 oz/a	2-4"W-1 B				98 a	97 abc	98 ab	98 a
	GLYFOS X-TRA	3 SL	0.75	lb ae/a	32 fl oz/a	2-4"W-1 B							97 a
	NIS (ACTIVATOR 90)	100 SL	0.25	% v/v	0.25 % v/v	2-4"W-1 B							
	N-PAK AMS	100 SL	2.5	% v/v	2.5 % v/v	2-4"W-1 B							
LSD (P=.05)									2.2	2.0	1.9	4.1	4.3
Standard Deviation									1.3	1.2	1.2	2.5	2.6
CV									1.39	1.27	1.25	2.68	2.82
Replicate F									2.307	1.244	1.325	3.439	4.585
Replicate Prob(F)									0.1176	0.3047	0.2814	0.0457	0.0186
Treatment F									1026.714	1243.581	1274.264	278.966	252.930
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0001

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 13-2C-ME90 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing								IPOHE 7-9-13 Control Percent 0 DA-C	IPOHE 7-14-13 Control Percent	IPOHE 7-23-13 Control Percent 14 DA-C	IPOHE 7-29-13 Control Percent 20 DA-C	IPOHE 8-6-13 Control Percent
Trt-Eval Interval								8 DA-B	13 DA-B	22 DA-B	28 DA-B	28 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	NONTREATED									0 d	0 e	0 d
2	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.6 lb ai/a 0.75 lb ae/a 2.5 % v/v		3 pt/a 1.5 pt/a 2.5 % v/v		PRE A 2-4"W-2 C 2-4"W-2 C		97 abc	96 abc	98 ab
3	SURESTART AATREX 4L DURANGO DMA N-PAK AMS	4.25 SE 4 SC 4 SL 100 SL		1.6 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v		3 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE A PRE A 2-4"W-2 C 2-4"W-2 C		98 abc	97 ab	98 ab
4	KEYSTONE NXT HORNET WDG	5.6 SE 68.5 WG		3.36 lb ai/a 0.128 lb ai/a		2.4 qt/a 3 oz/a		PRE A PRE A		97 abc	95 a-d	97 abc
5	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.06 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		PRE A 2-4"W-2 C 2-4"W-2 C		96 abc	97 ab	98 ab
6	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.33 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1.5 pt/a 2.5 % v/v		PRE A 2-4"W-2 C 2-4"W-2 C		94 c	95 a-d	98 ab
7	SURESTART AATREX 4L DURANGO DMA N-PAK AMS	4.25 SE 4 SC 4 SL 100 SL		1.33 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE A PRE A 2-4"W-2 C 2-4"W-2 C		99 ab	98 a	98 ab
8	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.06 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B		96 abc	92 d	98 ab
9	LEXAR EZ	3.7 SC		2.78 lb ai/a		3 qt/a		PRE A		95 bc	93 cd	97 abc
10	LEXAR EZ PRINCEP 4L	3.7 SC 4 SC		2.78 lb ai/a 1 lb ai/a		3 qt/a 1 qt/a		PRE A PRE A		98 abc	97 ab	98 ab
11	CORVUS AATREX 4L	2.63 SC 4 SC		0.115 lb ai/a 1.5 lb ai/a		5.6 fl oz/a 1.5 qt/a		PRE A PRE A		95 bc	96 a-d	96 bc
12	ZIDUA AATREX 4L	85 WG 4 SC		0.133 lb ai/a 1.5 lb ai/a		2.5 oz/a 1.5 qt/a		PRE A PRE A		96 abc	93 bcd	95 c
13	FIERCE AATREX 4L	76 WG 4 SC		0.143 lb ai/a 1.5 lb ai/a		3 oz/a 1.5 qt/a		PRE A PRE A		99 a	98 a	98 a
14	ANTHEM ATZ	4.5 SE		1.13 lb ai/a		32 fl oz/a		PRE A		97 abc	96 abc	96 abc
15	LEXAR EZ HALEX GT NIS (ACTIVATOR 90) N-PAK AMS	3.7 SC 4.389 CS 100 SL 100 SL		1.39 lb ai/a 1.98 lb ai/a 0.25 % v/v 2.5 % v/v		1.5 qt/a 3.6 pt/a 0.25 % v/v 2.5 % v/v		PRE A 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C		98 abc	97 ab	98 a
16	SOLIDA GLYFOS X-TRA N-PAK AMS	25 WG 3 SL 100 SL		0.0156 lb ai/a 0.75 lb ae/a 2.5 % v/v		1 oz/a 32 fl oz/a 2.5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B		97 abc	95 a-d	97 ab

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 13-2C-ME90 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code								IPOHE	IPOHE	IPOHE	IPOHE	IPOHE
Crop Code								7-9-13	7-14-13	7-23-13	7-29-13	8-6-13
Rating Date								Control	Control	Control	Control	Control
Rating Type								Percent	Percent	Percent	Percent	Percent
Rating Unit								0 DA-C		14 DA-C	20 DA-C	
Rating Timing												
Trt-Eval Interval								8 DA-B	13 DA-B	22 DA-B	28 DA-B	28 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Stage	Appl Code		
17	HARROW	75 WG		0.0155 lb ai/a		0.33 oz/a		2-4"W-1 B			97 abc	95 a-d
	GLYFOS X-TRA	3 SL		0.75 lb ae/a		32 fl oz/a		2-4"W-1 B				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		2-4"W-1 B				
	N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v		2-4"W-1 B				
LSD (P=.05)								3.7	3.7	2.5	4.3	4.9
Standard Deviation								2.2	2.2	1.5	2.6	2.9
CV								2.41	2.44	1.65	2.89	3.3
Replicate F								3.719	2.931	2.720	4.733	2.620
Replicate Prob(F)								0.0365	0.0711	0.0826	0.0166	0.0899
Treatment F								343.267	335.672	729.500	240.635	185.363
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	0.0001

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 13-2C-ME90 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	PANDI 7-14-13 Control Percent	PANDI 7-23-13 Control Percent	PANDI 7-29-13 Control Percent	PANDI 8-6-13 Control Percent
							13 DA-B	22 DA-B	28 DA-B	28 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate	Growth Unit Stage	Appl Code	
1	NONTREATED									0 e
2	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.6 lb ai/a 0.75 lb ae/a 2.5 % v/v		3 pt/a 1.5 pt/a 2.5 % v/v		PRE A 2-4"W-2 C 2-4"W-2 C		97 abc
3	SURESTART AATREX 4L DURANGO DMA N-PAK AMS	4.25 SE 4 SC 4 SL 100 SL		1.6 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v		3 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE A PRE A 2-4"W-2 C 2-4"W-2 C		96 abc
4	KEYSTONE NXT HORNET WDG	5.6 SE 68.5 WG		3.36 lb ai/a 0.128 lb ai/a		2.4 qt/a 3 oz/a		PRE A PRE A		94 bcd
5	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.06 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		PRE A 2-4"W-2 C 2-4"W-2 C		96 abc
6	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.33 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1.5 pt/a 2.5 % v/v		PRE A 2-4"W-2 C 2-4"W-2 C		98 ab
7	SURESTART AATREX 4L DURANGO DMA N-PAK AMS	4.25 SE 4 SC 4 SL 100 SL		1.33 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE A PRE A 2-4"W-2 C 2-4"W-2 C		99 a
8	SURESTART DURANGO DMA N-PAK AMS	4.25 SE 4 SL 100 SL		1.06 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B		98 ab
9	LEXAR EZ	3.7 SC		2.78 lb ai/a		3 qt/a		PRE A		93 cd
10	LEXAR EZ PRINCEP 4L	3.7 SC 4 SC		2.78 lb ai/a 1 lb ai/a		3 qt/a 1 qt/a		PRE A PRE A		93 cd
11	CORVUS AATREX 4L	2.63 SC 4 SC		0.115 lb ai/a 1.5 lb ai/a		5.6 fl oz/a 1.5 qt/a		PRE A PRE A		96 a-d
12	ZIDUA AATREX 4L	85 WG 4 SC		0.133 lb ai/a 1.5 lb ai/a		2.5 oz/a 1.5 qt/a		PRE A PRE A		94 a-d
13	FIERCE AATREX 4L	76 WG 4 SC		0.143 lb ai/a 1.5 lb ai/a		3 oz/a 1.5 qt/a		PRE A PRE A		93 bcd
14	ANTHEM ATZ	4.5 SE		1.13 lb ai/a		32 fl oz/a		PRE A		91 d
15	LEXAR EZ HALEX GT NIS (ACTIVATOR 90) N-PAK AMS	3.7 SC 4.389 CS 100 SL 100 SL		1.39 lb ai/a 1.98 lb ai/a 0.25 % v/v 2.5 % v/v		1.5 qt/a 3.6 pt/a 0.25 % v/v 2.5 % v/v		PRE A 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C		96 a-d
16	SOLIDA GLYFOS X-TRA N-PAK AMS	25 WG 3 SL 100 SL		0.0156 lb ai/a 0.75 lb ae/a 2.5 % v/v		1 oz/a 32 fl oz/a 2.5 % v/v		2-4"W-1 B 2-4"W-1 B 2-4"W-1 B		96 a-d

Southern Illinois University

General Corn Herbicide Comparison.

Trial ID: 13-2C-ME90 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code								PANDI	PANDI	PANDI	PANDI
Crop Code								7-14-13	7-23-13	7-29-13	8-6-13
Rating Date								Control	Control	Control	Control
Rating Type								Percent	Percent	Percent	Percent
Rating Unit								14 DA-C	20 DA-C		
Rating Timing											
Trt-Eval Interval								13 DA-B	22 DA-B	28 DA-B	28 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Unit	Other Rate	Growth Unit Stage	Appl Code			
17	HARROW	75 WG	0.0155	lb ai/a	0.33 oz/a	2-4"W-1 B			96 a-d	98 ab	92 a-d
	GLYFOS X-TRA	3 SL	0.75	lb ae/a	32 fl oz/a	2-4"W-1 B					91 a-d
	NIS (ACTIVATOR 90)	100 SL	0.25	% v/v	0.25 % v/v	2-4"W-1 B					
	N-PAK AMS	100 SL	2.5	% v/v	2.5 % v/v	2-4"W-1 B					
LSD (P=.05)								4.7	2.1	8.5	9.6
Standard Deviation								2.8	1.3	5.1	5.8
CV								3.13	1.39	5.92	6.84
Replicate F								0.098	0.455	2.858	3.396
Replicate Prob(F)								0.9073	0.6388	0.0736	0.0473
Treatment F								204.655	1039.383	58.441	44.244
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001

General Corn Herbicide Comparison.

Trial ID: 13-2C-ME90 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Comments

1. Protocol: Dow, Syngenta, Cheminova (RIM 1302).
2. Ratings: CI / necrosis / chlorosis / stunt at 3-5, 7-10, and 15-21 DA-B, CI at 0 and 14 DA-C.
WC at 7, 14, 21, and 28 DA-B, and 0, 14, and 28 DA-C.
3. Photos.
4. Yield.
5. Following the PRE application the first rainfall event, beginning 1 hour later, was 2.16 inch over 3 days.
Following the 2-4"W-1 application the first rainfall event, beginning 5 hours later, was 2.0 inch over 2 days.
6. Missing data in some plots was due to early season standing water.
7. Harvested 11-8-13, (2) 30 inch rows by 25 ft.