

Corn, Tilled Weed Control Studies

Southern Illinois University

General Corn Herbicide Programs Comparison.

Trial ID: 11-21M-W70 Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
City State Zip Country: Belleville IL 62221 USA
Trial Status: FINAL **Initiation Date:** 5-18-11

Objectives: Evaluate corn herbicide programs that include standard commercial programs and recent herbicide products.

Crop 1: ZEAMD Dent corn **Variety:** DKC 61-21 GENSS **Description:** RR2/LL
Planting Method: SEEDED **Planting Date:** 5-18-11
Rate, Unit: 28000 S/A **Depth, Unit:** 1.5 IN
Row Spacing, Unit: 30 IN

Pest 1 Type: W **Code:** SETFA *Setaria faberi* Herrm. foxtail, giant
Pest 2 Type: W **Code:** IPOHE *Ipomoea hederacea* (L.) Jacq. morningglory, ivyleaf
Pest 3 Type: W **Code:** ABUTH *Abutilon theophrasti* Medicus velvetleaf
Pest 4 Type: W **Code:** AMATA *Amaranthus rudis* Sauer waterhemp, common
Pest 5 Type: W **Code:** AMBTR *Ambrosia trifida* L. ragweed, giant
Pest 6 Type: W **Code:** CYPES *Cyperus esculentus* L. nutsedge, yellow
Pest 7 Type: W **Code:** PANDI *Panicum dichotomiflorum* Michx. panicum, fall

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 30 FT **Tillage Type:** REDUCED-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Prior Crops, Year
 1. ZEAMD 2010

Field Prep./Maintenance: N 150 LB/A, P205 50 LB/A, K20 100 LB/A

% OM: 2.1 **Texture:** SILT LOAM
pH: 6 **Soil Name:** BETHALTO
CEC: 12 **Fert. Level:** P1: 89 LB/A, K: 400 LB/A

	Application Description		
	A	B	C
Application Date:	5-20-11	6-9-11	6-13-11
Time of Day:	8:00	10:00	15:00
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	2-4"W-1	2-4"W-2
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	RFK	JRK	BA
Air Temperature, Unit:	68 F	88 F	77 F
% Relative Humidity:	78	55	62
Wind Velocity, Unit:	0 MPH	5 MPH	5 MPH
Wind Direction:		NW	
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	65 F	77 F	74 F
Soil Moisture:	ABONOR	NORMAL	ABONOR
% Cloud Cover:	70	0	0
	20-5-11	9-6-11	13-6-11
Crop stage at application:	NA	V4-V5	V6
Height Min, Max (inch):		8 10 12	14

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Location: Belleville Res. Center

	Pest Stage At Each Application					
Application Date:	5-20-11	6-9-11	6-13-11			
Weed Code:	SETFA	SETFA	SETFA			
Stage Majority (leaves):	NA	4	5			
Stage Min, Max:		2 7	5 6			
Height Majority:		2 IN	3 IN			
Height Min, Max:		1 4	1 3			
Density, Unit:		0.1 FT2	0.01 FT2			
Weed Code:	IPOHE	IPOHE	IPOHE			
Stage Majority (leaves):	NA	2	6			
Stage Min, Max:		coty 4	5 6			
Height Majority:		2 IN	2 IN			
Height Min, Max:		1 3	1 2			
Density, Unit:		0.1 FT2	0.01 FT2			
Weed Code:	ABUTH	ABUTH	ABUTH			
Stage Majority (leaves):	NA	2	6			
Stage Min, Max:		coty 5	5 6			
Height Majority:		2 IN	2 IN			
Height Min, Max:		0.5 3	1 3			
Density, Unit:		0.03 FT2	0.01 FT2			
Weed Code:	AMATA	AMATA	AMATA			
Stage Majority (leaves):	NA	6	8			
Stage Min, Max:		coty 14	5 8			
Height Majority:		3 IN	3 IN			
Height Min, Max:		0.5 6	1 6			
Density, Unit:		0.1 FT2	0.1 FT2			
Weed Code:	AMBTR	AMBTR	AMBTR			
Stage Majority (leaves):	NA	4	4			
Stage Min, Max:		coty 6	2 6			
Height Majority:		3 IN	3 IN			
Height Min, Max:		1 4	1 4			
Weed Code:	CYPES	CYPES	CYPES			
Stage Majority (leaves):	NA	NA	NA			
Weed Code:	PANDI	PANDI	PANDI			
Stage Majority (leaves):	NA	NA	NA			

Application Equipment

Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	30 PSI	30 PSI	30 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 8002	XR 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										SETFA		SETFA		SETFA	
Crop Code										ZEAMD		ZEAMD		ZEAMD	
Rating Date										6-8-11		7-4-11		7-25-11	
Rating Data Type										Injury		Injury		Injury	
Rating Unit										Percent		Percent		Percent	
Rating Timing										21 DAP		25 DA-B		46 DA-B	
Trt-Eval Interval										19 DA-A		21 DA-C		42 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 a	0 a	0 a	0 c	0 c	0 d
2	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	PRE	A	0 a	0 a	0 a	99 a	97 a	98 abc
2	PRINCEP	4	SC	1	lb ai/a	1	qt/a	PRE	A						
3	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	0 a	0 a	0 a	99 a	96 ab	97 bc
3	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	2-4"W-2	C						
4	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	0 a	0 a	0 a	97 b	95 ab	99 ab
4	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-2	C						
4	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	2-4"W-2	C						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
5	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-1	B		0 a	0 a		99 a	98 ab
5	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	2-4"W-1	B						
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-1	B						
6	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	PRE	A	0 a	0 a	0 a	98 a	98 a	98 abc
6	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	2-4"W-2	C						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
7	SURESTART	4.25	SE	1.33	lb ai/a	2.5	pt/a	PRE	A	0 a	0 a	0 a	99 a	98 a	98 ab
7	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	2-4"W-2	C						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
8	SURESTART	4.25	SE	1.06	lb ai/a	2	pt/a	PRE	A	0 a	0 a	0 a	99 a	99 a	98 ab
8	AATREX	4	SC	1	lb ai/a	1	qt/a	PRE	A						
8	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	2-4"W-2	C						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
9	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	PRE	A	0 a	0 a	0 a	99 a	98 a	98 abc
9	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A						
10	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	0 a	0 a	0 a	97 b	99 a	98 ab
10	AATREX	4	SC	1	lb ai/a	1	qt/a	PRE	A						
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C						
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
11	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	0 a	0 a	0 a	99 a	99 a	99 a
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C						
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
12	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	0 a	0 a	0 a	99 a	99 a	99 a
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C						
12	AATREX	4	SC	1	lb ai/a	1	qt/a	2-4"W-2	C						
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
13	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	0 a	0 a	0 a	99 a	99 a	98 ab
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C						
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
14	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	0 a	0 a	0 a	99 a	98 a	98 abc
14	GUARDSMAN MAX	5	SE	1.88	lb ai/a	3	pt/a	PRE	A						
15	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	0 a	0 a	0 a	99 a	91 b	96 c
15	ZIDUA	85	WG	0.133	lb ai/a	2.5	oz/a	PRE	A						
15	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A						
16	CINCH ATZ	5.5	SC	2.9	lb ai/a	2.1	qt/a	PRE	A	0 a	0 a	0 a	99 a	99 a	98 ab
16	PREQUEL	45	WG			1.67	oz/a	PRE	A						
16	RESOLVE SG	25	SG	0.0156	lb ai/a			PRE	A						
16	ISOXAFLOTOLE	75	WG	0.0313	lb ai/a			PRE	A						
17	CINCH ATZ	5.5	SC	1.38	lb ai/a	1	qt/a	PRE	A	0 a	0 a	0 a	99 a	99 a	98 ab
17	AATREX	4	SC	1	lb ai/a	1	qt/a	2-4"W-2	C						
17	REALM Q					4	oz/a	2-4"W-2	C						
17	RESOLVE SG	25	SG	0.0188	lb ai/a			2-4"W-2	C						
17	DPX-4145	50	WG	0.0094	lb ai/a			2-4"W-2	C						
17	MESOTRIONE	50	WG	0.078	lb ai/a			2-4"W-2	C						
17	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	2-4"W-2	C						
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						

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Pest Code		ZEAMD			SETFA				
Crop Code		ZEAMD	ZEAMD	ZEAMD	SETFA	SETFA	SETFA		
Rating Date		6-8-11	7-4-11	7-25-11	6-8-11	7-4-11	7-25-11		
Rating Data Type		Injury	Injury	Injury	Control	Control	Control		
Rating Unit		Percent	Percent	Percent	Percent	Percent	Percent		
Rating Timing		21 DAP	25 DA-B	46 DA-B	21 DAP	25 DA-B	46 DA-B		
Trt-Eval Interval		19 DA-A	21 DA-C	42 DA-C	19 DA-A	21 DA-C	42 DA-C		
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
	LSD (P=.05)			0.0		0.0		0.0	
	Replicate F			0.000		0.000		0.000	
	Replicate Prob(F)			1.0000		1.0000		1.0000	
	Treatment F			0.000		0.000		2955.764	
	Treatment Prob(F)			1.0000		1.0000		0.0001	

Means followed by same letter do not significantly differ (P=.05, LSD)

General Corn Herbicide Programs Comparison.

Trial ID: 11-21M-W70

Location: Belleville Res. Center

Pest Code										IPOHE	IPOHE	IPOHE	ABUTH	ABUTH	ABUTH
Crop Code										6-8-11	7-4-11	7-25-11	6-8-11	7-4-11	7-25-11
Rating Date										Control	Control	Control	Control	Control	Control
Rating Data Type										Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit										21 DAP	25 DA-B	46 DA-B	21 DAP	25 DA-B	46 DA-B
Rating Timing										19 DA-A	21 DA-C	42 DA-C	19 DA-A	21 DA-C	42 DA-C
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	NONTREATED									0 g	0 c	0 d	0 d	0 c	0 c
2	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	PRE	A	99 a	96 ab	98 abc	99 a	99 a	99 ab
2	PRINCEP	4	SC	1	lb ai/a	1	qt/a	PRE	A						
3	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	93 abc	93 ab	98 abc	99 a	99 a	99 a
3	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	2-4"W-2	C						
4	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	94 abc	99 a	98 ab	99 a	99 a	99 a
4	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-2	C						
4	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	2-4"W-2	C						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
5	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-1	B		95 ab	98 abc		99 a	99 a
5	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	2-4"W-1	B						
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-1	B						
6	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	PRE	A	47 f	97 ab	97 c	98 ab	98 b	99 a
6	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	2-4"W-2	C						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
7	SURESTART	4.25	SE	1.33	lb ai/a	2.5	pt/a	PRE	A	83 b-e	93 ab	98 abc	99 a	99 a	99 a
7	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	2-4"W-2	C						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
8	SURESTART	4.25	SE	1.06	lb ai/a	2	pt/a	PRE	A	83 cde	91 ab	98 ab	99 a	99 a	99 a
8	AATREX	4	SC	1	lb ai/a	1	qt/a	PRE	A						
8	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	2-4"W-2	C						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
9	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	PRE	A	97 abc	97 ab	98 abc	99 a	99 a	99 a
9	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A						
10	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	93 abc	89 ab	97 bc	99 a	99 a	99 ab
10	AATREX	4	SC	1	lb ai/a	1	qt/a	PRE	A						
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C						
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
11	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	73 de	94 ab	98 abc	99 a	99 a	99 a
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C						
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
12	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	68 e	99 a	99 a	81 c	99 a	99 a
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C						
12	AATREX	4	SC	1	lb ai/a	1	qt/a	2-4"W-2	C						
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
13	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	98 ab	97 ab	98 ab	99 a	99 a	99 ab
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C						
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
14	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	99 a	97 ab	98 ab	99 a	99 a	99 a
14	GUARDSMAN MAX	5	SE	1.88	lb ai/a	3	pt/a	PRE	A						
15	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	98 ab	96 ab	98 abc	99 a	99 a	99 ab
15	ZIDUA	85	WG	0.133	lb ai/a	2.5	oz/a	PRE	A						
15	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A						
16	CINCH ATZ	5.5	SC	2.9	lb ai/a	2.1	qt/a	PRE	A	93 abc	86 b	98 abc	99 a	99 a	98 b
16	PREQUEL	45	WG			1.67	oz/a	PRE	A						
16	RESOLVE SG	25	SG	0.0156	lb ai/a			PRE	A						
16	ISOXAFLOTOLE	75	WG	0.0313	lb ai/a			PRE	A						
17	CINCH ATZ	5.5	SC	1.38	lb ai/a	1	qt/a	PRE	A	85 a-d	99 a	98 ab	83 bc	99 a	98 b
17	AATREX	4	SC	1	lb ai/a	1	qt/a	2-4"W-2	C						
17	REALM Q					4	oz/a	2-4"W-2	C						
17	RESOLVE SG	25	SG	0.0188	lb ai/a			2-4"W-2	C						
17	DPX-4145	50	WG	0.0094	lb ai/a			2-4"W-2	C						
17	MESOTRIONE	50	WG	0.078	lb ai/a			2-4"W-2	C						
17	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	2-4"W-2	C						
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						

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Pest Code											
Crop Code											
Rating Date											
Rating Data Type											
Rating Unit											
Rating Timing											
Trt-Eval Interval											

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
	LSD (P=.05)									15.2	11.8	1.5	15.8	0.5	0.6
	Replicate F									6.490	4.393	0.637	2.240	1.000	2.337
	Replicate Prob(F)									0.0045	0.0206	0.5353	0.1240	0.3791	0.1129
	Treatment F									24.101	32.691	1967.306	20.714	22034.690	15805.979
	Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

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								AMATA	AMATA	AMATA	AMBTR	AMBTR	AMBTR		
Pest Code	Crop Code							6-8-11	7-4-11	7-25-11	6-8-11	7-4-11	7-25-11		
Rating Date	Rating Data Type							Control	Control	Control	Control	Control	Control		
Rating Unit	Rating Timing							Percent	Percent	Percent	Percent	Percent	Percent		
Trt-Eval Interval								21 DAP	25 DA-B	46 DA-B	21 DAP	25 DA-B	46 DA-B		
								19 DA-A	21 DA-C	42 DA-C	19 DA-A	21 DA-C	42 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 b	0 b	0 c	0 d	0 c	0 c
2	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	PRE	A	99 a	99 a	96 ab	99 a	99 a	99 a
2	PRINCEP	4	SC	1	lb ai/a	1	qt/a	PRE	A						
3	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	99 a	99 a	96 ab	98 a	98 ab	98 ab
3	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	2-4"W-2	C						
4	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	99 a	99 a	99 a	98 a	99 a	99 a
4	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-2	C						
4	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	2-4"W-2	C						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
5	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-1	B		99 a	98 ab		99 a	99 a
5	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	2-4"W-1	B						
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-1	B						
6	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	PRE	A	99 a	98 a	99 a	68 c	99 a	97 ab
6	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	2-4"W-2	C						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
7	SURESTART	4.25	SE	1.33	lb ai/a	2.5	pt/a	PRE	A	99 a	99 a	96 ab	98 a	95 b	98 ab
7	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	2-4"W-2	C						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
8	SURESTART	4.25	SE	1.06	lb ai/a	2	pt/a	PRE	A	99 a	99 a	98 ab	99 a	99 a	99 a
8	AATREX	4	SC	1	lb ai/a	1	qt/a	PRE	A						
8	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	2-4"W-2	C						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
9	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	PRE	A	99 a	98 a	97 ab	99 a	98 ab	98 ab
9	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A						
10	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a	99 a
10	AATREX	4	SC	1	lb ai/a	1	qt/a	PRE	A						
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C						
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
11	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	99 a	99 a	98 ab	89 ab	98 ab	98 ab
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C						
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
12	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	99 a	99 a	98 ab	83 b	99 a	99 a
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C						
12	AATREX	4	SC	1	lb ai/a	1	qt/a	2-4"W-2	C						
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
13	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	99 a	99 a	94 b	96 a	99 a	99 a
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C						
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						
14	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	99 a	99 a	98 ab	98 a	99 a	98 ab
14	GUARDSMAN MAX	5	SE	1.88	lb ai/a	3	pt/a	PRE	A						
15	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	99 a	99 a	99 a	98 a	98 ab	96 b
15	ZIDUA	85	WG	0.133	lb ai/a	2.5	oz/a	PRE	A						
15	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A						
16	CINCH ATZ	5.5	SC	2.9	lb ai/a	2.1	qt/a	PRE	A	99 a	99 a	99 a	99 a	96 ab	99 a
16	PREQUEL	45	WG			1.67	oz/a	PRE	A						
16	RESOLVE SG	25	SG	0.0156	lb ai/a			PRE	A						
16	ISOXAFLOTOLE	75	WG	0.0313	lb ai/a			PRE	A						
17	CINCH ATZ	5.5	SC	1.38	lb ai/a	1	qt/a	PRE	A	99 a	99 a	99 a	96 ab	99 a	99 a
17	AATREX	4	SC	1	lb ai/a	1	qt/a	2-4"W-2	C						
17	REALM Q					4	oz/a	2-4"W-2	C						
17	RESOLVE SG	25	SG	0.0188	lb ai/a			2-4"W-2	C						
17	DPX-4145	50	WG	0.0094	lb ai/a			2-4"W-2	C						
17	MESOTRIONE	50	WG	0.078	lb ai/a			2-4"W-2	C						
17	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	2-4"W-2	C						
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C						

Southern Illinois University

General Corn Herbicide Programs Comparison.

Trial ID: 11-21M-W70 Location: Belleville Res. Center

Pest Code	AMATA AMATA AMATA AMBTR AMBTR AMBTR								
Crop Code									
Rating Date	6-8-11	7-4-11	7-25-11	6-8-11	7-4-11	7-25-11			
Rating Data Type	Control	Control	Control	Control	Control	Control			
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent			
Rating Timing	21 DAP	25 DA-B	46 DA-B	21 DAP	25 DA-B	46 DA-B			
Trt-Eval Interval	19 DA-A	21 DA-C	42 DA-C	19 DA-A	21 DA-C	42 DA-C			
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
LSD (P=.05)									
		0.0	1.3	4.1	12.8	3.8	2.6		
	Replicate F	0.000	0.485	10.381	3.474	0.833	0.857		
	Replicate Prob(F)	1.0000	0.6202	0.0003	0.0440	0.4440	0.4341		
	Treatment F	0.000	2664.909	278.053	31.850	334.780	691.674		
	Treatment Prob(F)	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001		

Means followed by same letter do not significantly differ (P=.05, LSD)

General Corn Herbicide Programs Comparison.

Trial ID: 11-21M-W70

Location: Belleville Res. Center

Pest Code				CYPES	CYPES	PANDI	PANDI						
Crop Code				7-4-11	7-25-11	7-4-11	7-25-11						
Rating Date				Control	Control	Control	Control						
Rating Data Type				Percent	Percent	Percent	Percent						
Rating Unit				25 DA-B	46 DA-B	25 DA-B	46 DA-B						
Rating Timing				21 DA-C	42 DA-C	21 DA-C	42 DA-C						
Trt-Eval Interval				21 DA-C	42 DA-C	21 DA-C	42 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 c	0 c	0 c
2	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	PRE	A	99 a	98 a	99 a	99 a
2	PRINCEP	4	SC	1	lb ai/a	1	qt/a	PRE	A				
3	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	99 a	98 a	98 a	99 a
3	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	2-4"W-2	C				
4	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	99 a	99 a	99 a	99 a
4	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-2	C				
4	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	2-4"W-2	C				
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C				
5	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-1	B	99 a	99 a	99 a	99 a
5	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	2-4"W-1	B				
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-1	B				
6	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	PRE	A	96 b	93 b	97 ab	99 a
6	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	2-4"W-2	C				
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C				
7	SURESTART	4.25	SE	1.33	lb ai/a	2.5	pt/a	PRE	A	99 a	98 a	97 ab	98 b
7	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	2-4"W-2	C				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C				
8	SURESTART	4.25	SE	1.06	lb ai/a	2	pt/a	PRE	A	99 a	96 ab	99 a	99 a
8	AATREX	4	SC	1	lb ai/a	1	qt/a	PRE	A				
8	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	2-4"W-2	C				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C				
9	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	PRE	A	99 a	98 a	95 b	99 a
9	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A				
10	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
10	AATREX	4	SC	1	lb ai/a	1	qt/a	PRE	A				
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C				
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C				
11	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	99 a	99 a	99 a	99 a
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C				
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C				
12	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	99 a	98 a	98 a	98 b
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C				
12	AATREX	4	SC	1	lb ai/a	1	qt/a	2-4"W-2	C				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C				
13	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C				
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C				
14	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	96 b	99 a	99 a	99 a
14	GUARDSMAN MAX	5	SE	1.88	lb ai/a	3	pt/a	PRE	A				
15	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	97 ab	99 a	98 a	99 ab
15	ZIDUA	85	WG	0.133	lb ai/a	2.5	oz/a	PRE	A				
15	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A				
16	CINCH ATZ	5.5	SC	2.9	lb ai/a	2.1	qt/a	PRE	A	99 a	99 a	98 a	99 a
16	PREQUEL	45	WG			1.67	oz/a	PRE	A				
16	RESOLVE SG	25	SG	0.0156	lb ai/a			PRE	A				
16	ISOXAFLUTOLE	75	WG	0.0313	lb ai/a			PRE	A				
17	CINCH ATZ	5.5	SC	1.38	lb ai/a	1	qt/a	PRE	A	99 a	99 a	99 a	99 a
17	AATREX	4	SC	1	lb ai/a	1	qt/a	2-4"W-2	C				
17	REALM Q					4	oz/a	2-4"W-2	C				
17	RESOLVE SG	25	SG	0.0188	lb ai/a			2-4"W-2	C				
17	DPX-4145	50	WG	0.0094	lb ai/a			2-4"W-2	C				
17	MESOTRIONE	50	WG	0.078	lb ai/a			2-4"W-2	C				
17	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	2-4"W-2	C				
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W-2	C				

General Corn Herbicide Programs Comparison.

Trial ID: 11-21M-W70 Location: Belleville Res. Center

Pest Code					CYPES	CYPES	PANDI	PANDI
Crop Code								
Rating Date					7-4-11	7-25-11	7-4-11	7-25-11
Rating Data Type					Control	Control	Control	Control
Rating Unit					Percent	Percent	Percent	Percent
Rating Timing					25 DA-B	46 DA-B	25 DA-B	46 DA-B
Trt-Eval Interval					21 DA-C	42 DA-C	21 DA-C	42 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
	LSD (P=.05)								
					2.1	4.7		2.7	0.7
	Replicate F				0.190	4.829		2.628	3.125
	Replicate Prob(F)				0.8275	0.0147		0.0877	0.0576
	Treatment F				1042.098	216.301		666.989	11003.923
	Treatment Prob(F)				0.0001	0.0001		0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Trial Comments

1. Protocol: Syngenta, Dow, Bayer, Monsanto, BASF, DuPont.
2. Ratings: CI/WC at 21 DAP and at 0, 21 and 42 DA-C.
3. At 21 DA-C weed density was low.
4. Not harvested.