

No-Till Corn Weed Control Studies

Southern Illinois University

No-Till Corn Herbicide Programs.

Trial ID: 12-1-MW90

Location: Belleville Res. Center

Investigator: Bryan Young

General Trial Information

Study Director: Bryan Young
Investigator: Bryan Young **Title:** Professor

Trial Status: F - one-year/final
Initiation Date: 4-26-12

Trial Location

City: Belleville
State/Prov.: IL
Postal Code: 62221
Country: USA

Objectives:

Evaluate the performance of various competitive burndown and residual herbicide programs for use in no-till corn.

Personnel

Study Director: Bryan Young
Investigator: Bryan Young **Title:** Professor
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
Variety: DKC 61-06 **Description:** RR2/LL
BBCH Scale: BCOR **Planting Date:** 5-18-12
Planting Method: SEEDED Seeded **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Pest Description

Pest 1 Type: W **Code:** AMBTR - Ambrosia trifida L.
Common Name: ragweed, giant

Pest 2 Type: W **Code:** AMBEL - Ambrosia artemisiifolia L.
Common Name: ragweed, common

Pest 3 Type: W **Code:** PANDI - Panicum dichotomiflorum Michx.
Common Name: panicum, fall

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 27 FT
Plot Area, Unit: 270 FT2 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB L Randomized Complete Block (RCB)

No.	Previous Crop	Year
1.	GLXMA	2011

Maintenance

No.	Maintenance Treatment Name
1.	N 150 LB/A, P205 50 LB/A, K20 150 LB/A

Soil Description

% OM: 1.5 **Texture:** SIL SILT LOAM
pH: 6.4 **Soil Name:** WINFIELD
CEC: 6

Additional Measured Elements

Element	Quantity	Unit
P1	72	LB/A
K	313	LB/A

Moisture and Weather Conditions

Overall Moisture Conditions: BELNOR below normal
Closest Weather Station: ICN - Belleville IL **Distance, Unit:** 0.5 MI

Southern Illinois University

No-Till Corn Herbicide Programs.

Trial ID: 12-1-MW90

Location: Belleville Res. Center

Investigator: Bryan Young

Application Description							
	A	B	C	D	E	F	G
Application Date:	4-26-12	5-11-12	5-18-12	6-8-12	5-29-12	6-29-12	6-20-12
Time of Day:	8:00	9:00	14:00	9:45	16:00	9:00	8:00
Application Method:	Spray	Spray	Spray	Spray	Spray	Spray	Spray
Application Timing:	21DBP	7DBP	PRE	2-4"W	4-6"W-1	42DAP	4-6"W-2
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	RFK	RFK	LAH	JRK	JRK	JRK	RFK
Air Temperature, Unit:	69 F	69 F	86 F	81 F	88 F	92 F	82 F
% Relative Humidity:	66	44	31	35	30	41	58
Wind Velocity, Unit:	5 MPH	3 MPH	3 MPH	1 MPH	1 MPH	1 MPH	6 MPH
Wind Direction:	N	SE	E	E	W	W	S
Dew Presence (Y/N):	N no	N no	N no	N no	N no	N no	N no
Soil Temperature, Unit:	62 F	68 F	63 F	72 F	68 F	79 F	77 F
Soil Moisture:	NORMAL	ABONOR	NORMAL	BELNOR	BELNOR	BELNOR	NORMAL
Next Rain Occurred On:	4-29-12	5-21-12	5-21-12	6-11-12	5-31-12	7-8-12	7-8-12

Crop Stage At Each Application							
	A	B	C	D	E	F	G
Crop 1 Code, BBCH Scale:	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR
Stage Scale Used:	DESC	DESC	DESC	DESC	DESC	DESC	DESC
Stage Majority, Percent:	NA	NA	NA	V5	V3	V9	V7
Stage Minimum, Percent:				V4	V2	V8	V6
Stage Maximum, Percent:				V5	V3	V9	V7
Height, Unit:				12 IN	6 IN	30 IN	22 IN
Height Minimum, Maximum:				10 12	4 6	26 30	18 22

Pest Stage At Each Application							
	A	B	C	D	E	F	
Pest 1 Code, Type, Scale:	AMBTR W DESC	AMBTR W DESC	AMBTR W DESC	AMBTR W DESC	AMBTR W DESC	AMBTR W DESC	AMBTR W DESC
Stage Majority, Percent:	8	8	10	NA	NA	NA	
Stage Minimum, Percent:	4	4	6				
Stage Maximum, Percent:	8	10	16				
Height, Unit:	4 IN	6 IN	14 IN				
Height Minimum, Maximum:	4 6	4 10	8 24				
Density, Unit:	0.1 FT2	0.1 FT2	0.1 FT2				
Pest 2 Code, Type, Scale:	AMBEL W DESC	AMBEL W DESC	AMBEL W DESC	AMBEL W DESC	AMBEL W DESC	AMBEL W DESC	AMBEL W DESC
Stage Majority, Percent:	6	6	10	4	NA	NA	
Stage Minimum, Percent:	5	5	6	2			
Stage Maximum, Percent:	6	6	18	6			
Height, Unit:	4 IN	6 IN	8 IN	2 IN			
Height Minimum, Maximum:	4 6	4 8	4 14	1 3			
Density, Unit:	0.01 FT2	0.01 FT2	0.1 FT2	0.001 FT2			
Pest 3 Code, Type, Scale:	PANDI W DESC	PANDI W DESC	PANDI W DESC	PANDI W DESC	PANDI W DESC	PANDI W DESC	PANDI W DESC
Stage Majority, Percent:	NA	4	4	NA	4	5	
Stage Minimum, Percent:		3	3		3	3	
Stage Maximum, Percent:		4	4		5	12	
Height, Unit:		4 IN	7 IN		5 IN	5 IN	
Height Minimum, Maximum:		3 5	3 9		2 9	3 12	
Density, Unit:		0.01 FT2	0.01 FT2		0.01 FT2	0.01 FT2	

No-Till Corn Herbicide Programs.

Trial ID: 12-1-MW90

Location: Belleville Res. Center

Investigator: Bryan Young

G	
Pest 1 Code, Type, Scale:	AMBTR W DESC
Stage Majority, Percent:	NA
Stage Minimum, Percent:	
Stage Maximum, Percent:	
Height, Unit:	
Height Minimum, Maximum:	
Density, Unit:	
Pest 2 Code, Type, Scale:	AMBEL W DESC
Stage Majority, Percent:	NA
Stage Minimum, Percent:	
Stage Maximum, Percent:	
Height, Unit:	
Height Minimum, Maximum:	
Density, Unit:	
Pest 3 Code, Type, Scale:	PANDI W DESC
Stage Majority, Percent:	10+
Stage Minimum, Percent:	3
Stage Maximum, Percent:	10+
Height, Unit:	6 IN
Height Minimum, Maximum:	2 10
Density, Unit:	0.001 FT2

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

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

Southern Illinois University

No-Till Corn Herbicide Programs.

Trial ID: 12-1-MW90

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code							ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD			
Crop Code							5-25-12	6-1-12	6-15-12	6-29-12	7-12-12			
Rating Date							Injury	Injury	Injury	Injury	Injury			
Rating Type							Percent	Percent	Percent	Percent	Percent			
Rating Unit														
Rating Timing														
Trt-Eval Interval							14 DA-B	14 DAP	28 DAP	42 DAP	56 DAP			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code				
1	NONTREATED										0 a	0 a	0 a	0 a
2	SURESTART	4.25	SE	1.6 lb ai/a		3 pt/a			21DBP	A	0 a	0 a	0 a	0 a
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a			21DBP	A				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a			21DBP	A				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v			21DBP	A				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a			4-6"W-1 E					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v			4-6"W-1 E					
3	SURESTART	4.25	SE	1.6 lb ai/a		3 pt/a			21DBP	A	0 a	0 a	0 a	0 a
	AATREX NINE-O	90	WG	1 lb ai/a		1.11 lb/a			21DBP	A				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a			21DBP	A				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a			21DBP	A				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v			21DBP	A				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a			4-6"W-1 E					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v			4-6"W-1 E					
4	KEYSTONE	5.25	SE	3.4 lb ai/a		2.6 qt/a			PRE	C	0 a	0 a	0 a	0 a
	HORNET WDG	68.5	WG	0.128 lb ai/a		3 oz/a			PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a			PRE	C				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a			PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v			PRE	C				
5	SURESTART	4.25	SE	1.06 lb ai/a		2 pt/a			PRE	C	0 a	0 a	0 a	0 a
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a			PRE	C				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a			PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v			PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a			4-6"W-2 G					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v			4-6"W-2 G					
6	SURESTART	4.25	SE	1.33 lb ai/a		2.5 pt/a			PRE	C	0 a	0 a	0 a	0 a
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a			PRE	C				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a			PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v			PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a			4-6"W-2 G					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v			4-6"W-2 G					
7	SURESTART	4.25	SE	1.33 lb ai/a		2.5 pt/a			PRE	C	0 a	0 a	0 a	0 a
	AATREX NINE-O	90	WG	1 lb ai/a		1.11 lb/a			PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a			PRE	C				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a			PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v			PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a			4-6"W-2 G					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v			4-6"W-2 G					
8	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a			PRE	C	0 a	0 a	0 a	0 a
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a			PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v			PRE	C				
	SURESTART	4.25	SE	1.06 lb ai/a		2 pt/a			2-4"W	D				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a			2-4"W	D				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v			2-4"W	D				
9	CORVUS	2.62	SC	0.115 lb ai/a		5.6 fl oz/a			7DBP	B	0 a	0 a	0 a	0 a
	AATREX NINE-O	90	WG	1 lb ai/a		1.11 lb/a			7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a			7DBP	B				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v			7DBP	B				
10	CORVUS	2.62	SC	0.115 lb ai/a		5.6 fl oz/a			7DBP	B	0 a	0 a	0 a	0 a
	AATREX NINE-O	90	WG	1 lb ai/a		1.11 lb/a			7DBP	B				
	LIBERTY 280	2.34	EC	0.402 lb ai/a		22 fl oz/a			7DBP	B				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v			7DBP	B				

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.

Southern Illinois University

No-Till Corn Herbicide Programs.

Trial ID: 12-1-MW90

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								ZEAMD 5-25-12 Injury Percent	ZEAMD 6-1-12 Injury Percent	ZEAMD 6-15-12 Injury Percent	ZEAMD 6-29-12 Injury Percent	ZEAMD 7-12-12 Injury Percent		
								14 DA-B	14 DAP	28 DAP	42 DAP	56 DAP		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code					
11	CORVUS SHARPEN MSO (MSO ULTRA) N-PAK AMS	2.62 2.85 100 100	SC SC SL SL	0.115 0.067 1 % 2.5 %	lb ai/a lb ai/a v/v v/v	5.6 3 1 % 2.5 %	fl oz/a fl oz/a v/v v/v	7DBP 7DBP 7DBP 7DBP	B B B B	0 a	0 a	0 a	0 a	0 a
12	CORVUS AATREX NINE-O CLARITY COC (PRIME OIL)	2.62 90 4 100	SC WG SL SL	0.115 1 0.25 1 %	lb ai/a lb ai/a lb ae/a v/v	5.6 1.11 8 1 %	fl oz/a lb/a fl oz/a v/v	7DBP 7DBP 7DBP 7DBP	B B B B	0 a	0 a	0 a	0 a	0 a
13	CORVUS AATREX NINE-O CLARITY COC (PRIME OIL)	2.62 90 4 100	SC WG SL SL	0.115 1 0.5 1 %	lb ai/a lb ai/a lb ae/a v/v	5.6 1.11 16 1 %	fl oz/a lb/a fl oz/a v/v	7DBP 7DBP 7DBP 7DBP	B B B B	0 a	0 a	0 a	0 a	0 a
14	BALANCE FLEXX AATREX NINE-O CLARITY COC (PRIME OIL)	2 90 4 100	SC WG SL SL	0.094 1 0.25 1 %	lb ai/a lb ai/a lb ae/a v/v	6 1.11 8 1 %	fl oz/a lb/a fl oz/a v/v	7DBP 7DBP 7DBP 7DBP	B B B B	0 a	0 a	0 a	0 a	0 a
15	BALANCE FLEXX AATREX NINE-O CLARITY COC (PRIME OIL)	2 90 4 100	SC WG SL SL	0.094 1 0.5 1 %	lb ai/a lb ai/a lb ae/a v/v	6 1.11 16 1 %	fl oz/a lb/a fl oz/a v/v	7DBP 7DBP 7DBP 7DBP	B B B B	0 a	0 a	0 a	0 a	0 a
16	CORVUS AATREX NINE-O COC (PRIME OIL)	2.62 90 100	SC WG SL	0.115 1 1 %	lb ai/a lb ai/a v/v	5.6 1.11 1 %	fl oz/a lb/a v/v	7DBP 7DBP 7DBP	B B B	0 a	0 a	0 a	0 a	0 a
17	LEXAR TOUCHDOWN TOTAL N-PAK AMS	3.7 4.17 100	SC SL SL	2.78 0.78 2.5 %	lb ai/a lb ae/a v/v	3 24 2.5 %	qt/a fl oz/a v/v	7DBP 7DBP 7DBP	B B B	0 a	0 a	0 a	0 a	0 a
18	HARNESS XTRA 5.6 ROUNDUP POWERMAX N-PAK AMS	5.6 4.5 100	EC SL SL	4.2 0.77 2.5 %	lb ai/a lb ae/a v/v	3 22 2.5 %	qt/a fl oz/a v/v	7DBP 7DBP 7DBP	B B B	0 a	0 a	0 a	0 a	0 a
19	NONTREATED									0 a	0 a	0 a	0 a	0 a
20	ROUNDUP POWERMAX FIERCE N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	4.5 76 3.4 4.5 3.4	SL WG SL SL SL	0.77 0.143 4.9 % 0.77 4.9 %	lb ae/a lb ai/a v/v lb ae/a v/v	22 3 2.5 22 2.5	fl oz/a oz/a lb ai/a fl oz/a lb ai/a	7DBP 7DBP 7DBP 42DAP 42DAP	B B B F F	0 a	0 a	0 a	0 a	0 a
21	ROUNDUP POWERMAX FIERCE AATREX NINE-O N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	4.5 76 90 3.4 4.5 3.4	SL WG WG SL SL SL	0.77 0.143 1 4.9 % 0.77 4.9 %	lb ae/a lb ai/a lb ai/a v/v lb ae/a v/v	22 3 1.11 2.5 22 2.5	fl oz/a oz/a lb/a lb ai/a fl oz/a lb ai/a	7DBP 7DBP 7DBP 7DBP 42DAP 42DAP	B B B B F F	0 a	0 a	0 a	0 a	0 a
22	ROUNDUP POWERMAX FIERCE N-PAK AMS ROUNDUP POWERMAX AATREX NINE-O N-PAK AMS	4.5 76 3.4 4.5 90 3.4	SL WG SL SL WG SL	0.77 0.143 4.9 % 0.77 1 4.9 %	lb ae/a lb ai/a v/v lb ae/a lb ai/a v/v	22 3 2.5 22 1.11 2.5	fl oz/a oz/a lb ai/a fl oz/a lb/a lb ai/a	7DBP 7DBP 7DBP 42DAP 42DAP 42DAP	B B B F F F	0 a	0 a	0 a	0 a	0 a

Southern Illinois University

No-Till Corn Herbicide Programs.

Trial ID: 12-1-MW90

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code									ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD	
Crop Code									5-25-12	6-1-12	6-15-12	6-29-12	7-12-12	
Rating Date									Injury	Injury	Injury	Injury	Injury	
Rating Type									Percent	Percent	Percent	Percent	Percent	
Rating Unit														
Rating Timing														
Trt-Eval Interval									14 DA-B	14 DAP	28 DAP	42 DAP	56 DAP	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code					
23	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	C	0 a	0 a	0 a	0 a	0 a
	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	C					
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	PRE	C					
	N-PAK AMS	3.4	SL	4.9	% v/v	2.5	lb ai/a	PRE	C					
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	42DAP	F					
	N-PAK AMS	3.4	SL	4.9	% v/v	2.5	lb ai/a	42DAP	F					
24	GRAMOXONE 2 SL	2	SL	0.75	lb ai/a	48	fl oz/a	7DBP	B	0 a	0 a	0 a	0 a	0 a
	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	7DBP	B					
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	7DBP	B					
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7DBP	B					
LSD (P=.05)										0.0	0.0	0.0	0.0	0.0
Standard Deviation										0.0	0.0	0.0	0.0	0.0
CV										0.0	0.0	0.0	0.0	0.0
Replicate F										0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000

Southern Illinois University

No-Till Corn Herbicide Programs.

Trial ID: 12-1-MW90

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							AMBTR	AMBTR	AMBTR	AMBTR			
							5-25-12 Control Percent	6-15-12 Control Percent	6-29-12 Control Percent	7-12-12 Control Percent			
							14 DA-B	28 DAP	42 DAP	56 DAP			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code				
1	NONTREATED									0 d	0 d	0 e	0 d
2	SURESTART	4.25	SE	1.6 lb ai/a		3 pt/a		21DBP	A	98 a	99 ab	99 a	99 a
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		21DBP	A				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		21DBP	A				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP	A				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		4-6"W-1 E					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W-1 E					
3	SURESTART	4.25	SE	1.6 lb ai/a		3 pt/a		21DBP	A	99 a	99 a	98 ab	98 a
	AATREX NINE-O	90	WG	1 lb ai/a		1.11 lb/a		21DBP	A				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		21DBP	A				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		21DBP	A				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP	A				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		4-6"W-1 E					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W-1 E					
4	KEYSTONE	5.25	SE	3.4 lb ai/a		2.6 qt/a		PRE	C	90 a	99 a	99 a	99 a
	HORNET WDG	68.5	WG	0.128 lb ai/a		3 oz/a		PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		PRE	C				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		PRE	C				
5	SURESTART	4.25	SE	1.06 lb ai/a		2 pt/a		PRE	C	91 a	99 a	99 a	99 a
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		PRE	C				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		4-6"W-2 G					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W-2 G					
6	SURESTART	4.25	SE	1.33 lb ai/a		2.5 pt/a		PRE	C	93 a	99 a	99 a	99 a
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		PRE	C				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		4-6"W-2 G					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W-2 G					
7	SURESTART	4.25	SE	1.33 lb ai/a		2.5 pt/a		PRE	C	95 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1 lb ai/a		1.11 lb/a		PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		PRE	C				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		4-6"W-2 G					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W-2 G					
8	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		PRE	C	70 b	99 a	99 a	99 a
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		PRE	C				
	SURESTART	4.25	SE	1.06 lb ai/a		2 pt/a		2-4"W	D				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		2-4"W	D				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		2-4"W	D				
9	CORVUS	2.62	SC	0.115 lb ai/a		5.6 fl oz/a		7DBP	B	95 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1 lb ai/a		1.11 lb/a		7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		7DBP	B				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		7DBP	B				
10	CORVUS	2.62	SC	0.115 lb ai/a		5.6 fl oz/a		7DBP	B	98 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1 lb ai/a		1.11 lb/a		7DBP	B				
	LIBERTY 280	2.34	EC	0.402 lb ai/a		22 fl oz/a		7DBP	B				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		7DBP	B				

Southern Illinois University

No-Till Corn Herbicide Programs.

Trial ID: 12-1-MW90

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								AMBTR	AMBTR	AMBTR	AMBTR		
								5-25-12 Control Percent	6-15-12 Control Percent	6-29-12 Control Percent	7-12-12 Control Percent		
								14 DA-B	28 DAP	42 DAP	56 DAP		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code				
11	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	7DBP	B	99 a	98 ab	98 a	99 a
	SHARPEN	2.85	SC	0.067	lb ai/a	3	fl oz/a	7DBP	B				
	MSO (MSO ULTRA)	100	SL	1 %	v/v	1 %	v/v	7DBP	B				
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	7DBP	B				
12	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	7DBP	B	98 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	7DBP	B				
	CLARITY	4	SL	0.25	lb ae/a	8	fl oz/a	7DBP	B				
	COC (PRIME OIL)	100	SL	1 %	v/v	1 %	v/v	7DBP	B				
13	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	7DBP	B	99 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	7DBP	B				
	CLARITY	4	SL	0.5	lb ae/a	16	fl oz/a	7DBP	B				
	COC (PRIME OIL)	100	SL	1 %	v/v	1 %	v/v	7DBP	B				
14	BALANCE FLEXX	2	SC	0.094	lb ai/a	6	fl oz/a	7DBP	B	99 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	7DBP	B				
	CLARITY	4	SL	0.25	lb ae/a	8	fl oz/a	7DBP	B				
	COC (PRIME OIL)	100	SL	1 %	v/v	1 %	v/v	7DBP	B				
15	BALANCE FLEXX	2	SC	0.094	lb ai/a	6	fl oz/a	7DBP	B	98 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	7DBP	B				
	CLARITY	4	SL	0.5	lb ae/a	16	fl oz/a	7DBP	B				
	COC (PRIME OIL)	100	SL	1 %	v/v	1 %	v/v	7DBP	B				
16	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	7DBP	B	99 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	7DBP	B				
	COC (PRIME OIL)	100	SL	1 %	v/v	1 %	v/v	7DBP	B				
17	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	7DBP	B	99 a	99 a	99 a	99 a
	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	7DBP	B				
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	7DBP	B				
18	HARNESS XTRA 5.6	5.6	EC	4.2	lb ai/a	3	qt/a	7DBP	B	99 a	99 ab	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B				
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	7DBP	B				
19	NONTREATED								0 d	0 d	0 e	0 d	
20	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B	94 a	88 c	95 c	93 c
	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	7DBP	B				
	N-PAK AMS	3.4	SL	4.9 %	v/v	2.5	lb ai/a	7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	42DAP	F				
	N-PAK AMS	3.4	SL	4.9 %	v/v	2.5	lb ai/a	42DAP	F				
21	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B	98 a	98 ab	97 b	98 a
	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	7DBP	B				
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	7DBP	B				
	N-PAK AMS	3.4	SL	4.9 %	v/v	2.5	lb ai/a	7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	42DAP	F				
	N-PAK AMS	3.4	SL	4.9 %	v/v	2.5	lb ai/a	42DAP	F				
22	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B	98 a	88 c	94 d	95 b
	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	7DBP	B				
	N-PAK AMS	3.4	SL	4.9 %	v/v	2.5	lb ai/a	7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	42DAP	F				
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	42DAP	F				
	N-PAK AMS	3.4	SL	4.9 %	v/v	2.5	lb ai/a	42DAP	F				

Southern Illinois University

No-Till Corn Herbicide Programs.

Trial ID: 12-1-MW90

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code									AMBTR	AMBTR	AMBTR	AMBTR	
Crop Code													
Rating Date									5-25-12	6-15-12	6-29-12	7-12-12	
Rating Type									Control	Control	Control	Control	
Rating Unit									Percent	Percent	Percent	Percent	
Rating Timing													
Trt-Eval Interval									14 DA-B	28 DAP	42 DAP	56 DAP	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code				
23	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	C	57 c	97 b	99 a	99 a
	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	C				
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	PRE	C				
	N-PAK AMS	3.4	SL	4.9	% v/v	2.5	lb ai/a	PRE	C				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	42DAP	F				
	N-PAK AMS	3.4	SL	4.9	% v/v	2.5	lb ai/a	42DAP	F				
24	GRAMOXONE 2 SL	2	SL	0.75	lb ai/a	48	fl oz/a	7DBP	B	99 a	99 a	98 ab	99 a
	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	7DBP	B				
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	7DBP	B				
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7DBP	B				
LSD (P=.05)										9.3	2.1	1.1	1.4
Standard Deviation										5.7	1.3	0.7	0.9
CV										6.57	1.43	0.74	0.95
Replicate F										0.045	0.485	0.647	0.528
Replicate Prob(F)										0.9563	0.6188	0.5285	0.5934
Treatment F										75.327	1416.778	5141.270	3155.712
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

Southern Illinois University

No-Till Corn Herbicide Programs.

Trial ID: 12-1-MW90

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code							AMBEL	AMBEL	AMBEL	AMBEL			
Crop Code							5-25-12	6-15-12	6-29-12	7-12-12			
Rating Date							Control	Control	Control	Control			
Rating Type							Percent	Percent	Percent	Percent			
Rating Unit							14 DA-B	28 DAP	42 DAP	56 DAP			
Rating Timing													
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code				
1	NONTREATED									0 d	0 b	0 c	0 c
2	SURESTART	4.25	SE	1.6 lb ai/a		3 pt/a		21DBP	A	99 a	99 a	99 a	99 ab
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		21DBP	A				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		21DBP	A				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP	A				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		4-6"W-1 E					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W-1 E					
3	SURESTART	4.25	SE	1.6 lb ai/a		3 pt/a		21DBP	A	99 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1 lb ai/a		1.11 lb/a		21DBP	A				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		21DBP	A				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		21DBP	A				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP	A				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		4-6"W-1 E					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W-1 E					
4	KEYSTONE	5.25	SE	3.4 lb ai/a		2.6 qt/a		PRE	C	96 ab	99 a	99 a	99 a
	HORNET WDG	68.5	WG	0.128 lb ai/a		3 oz/a		PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		PRE	C				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		PRE	C				
5	SURESTART	4.25	SE	1.06 lb ai/a		2 pt/a		PRE	C	98 a	99 a	99 a	99 a
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		PRE	C				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		4-6"W-2 G					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W-2 G					
6	SURESTART	4.25	SE	1.33 lb ai/a		2.5 pt/a		PRE	C	99 a	99 a	99 a	99 a
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		PRE	C				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		4-6"W-2 G					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W-2 G					
7	SURESTART	4.25	SE	1.33 lb ai/a		2.5 pt/a		PRE	C	98 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1 lb ai/a		1.11 lb/a		PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		PRE	C				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		4-6"W-2 G					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W-2 G					
8	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		PRE	C	82 c	99 a	99 a	99 a
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		PRE	C				
	SURESTART	4.25	SE	1.06 lb ai/a		2 pt/a		2-4"W	D				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		2-4"W	D				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		2-4"W	D				
9	CORVUS	2.62	SC	0.115 lb ai/a		5.6 fl oz/a		7DBP	B	99 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1 lb ai/a		1.11 lb/a		7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		7DBP	B				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		7DBP	B				
10	CORVUS	2.62	SC	0.115 lb ai/a		5.6 fl oz/a		7DBP	B	99 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1 lb ai/a		1.11 lb/a		7DBP	B				
	LIBERTY 280	2.34	EC	0.402 lb ai/a		22 fl oz/a		7DBP	B				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		7DBP	B				

Southern Illinois University

No-Till Corn Herbicide Programs.

Trial ID: 12-1-MW90

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								AMBEL	AMBEL	AMBEL	AMBEL		
								5-25-12 Control Percent	6-15-12 Control Percent	6-29-12 Control Percent	7-12-12 Control Percent		
								14 DA-B	28 DAP	42 DAP	56 DAP		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
11	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	7DBP	B	99 a	99 a	99 a	99 a
	SHARPEN	2.85	SC	0.067	lb ai/a	3	fl oz/a	7DBP	B				
	MSO (MSO ULTRA)	100	SL	1 %	v/v	1 %	v/v	7DBP	B				
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	7DBP	B				
12	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	7DBP	B	99 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	7DBP	B				
	CLARITY	4	SL	0.25	lb ae/a	8	fl oz/a	7DBP	B				
	COC (PRIME OIL)	100	SL	1 %	v/v	1 %	v/v	7DBP	B				
13	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	7DBP	B	99 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	7DBP	B				
	CLARITY	4	SL	0.5	lb ae/a	16	fl oz/a	7DBP	B				
	COC (PRIME OIL)	100	SL	1 %	v/v	1 %	v/v	7DBP	B				
14	BALANCE FLEXX	2	SC	0.094	lb ai/a	6	fl oz/a	7DBP	B	99 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	7DBP	B				
	CLARITY	4	SL	0.25	lb ae/a	8	fl oz/a	7DBP	B				
	COC (PRIME OIL)	100	SL	1 %	v/v	1 %	v/v	7DBP	B				
15	BALANCE FLEXX	2	SC	0.094	lb ai/a	6	fl oz/a	7DBP	B	99 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	7DBP	B				
	CLARITY	4	SL	0.5	lb ae/a	16	fl oz/a	7DBP	B				
	COC (PRIME OIL)	100	SL	1 %	v/v	1 %	v/v	7DBP	B				
16	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	7DBP	B	99 a	99 a	99 a	99 a
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	7DBP	B				
	COC (PRIME OIL)	100	SL	1 %	v/v	1 %	v/v	7DBP	B				
17	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	7DBP	B	99 a	99 a	99 a	99 a
	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	7DBP	B				
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	7DBP	B				
18	HARNESS XTRA 5.6	5.6	EC	4.2	lb ai/a	3	qt/a	7DBP	B	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B				
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	7DBP	B				
19	NONTREATED								0 d	0 b	0 c	0 c	
20	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B	98 a	99 a	98 b	98 b
	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	7DBP	B				
	N-PAK AMS	3.4	SL	4.9 %	v/v	2.5	lb ai/a	7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	42DAP	F				
	N-PAK AMS	3.4	SL	4.9 %	v/v	2.5	lb ai/a	42DAP	F				
21	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B	99 a	99 a	99 a	99 a
	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	7DBP	B				
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	7DBP	B				
	N-PAK AMS	3.4	SL	4.9 %	v/v	2.5	lb ai/a	7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	42DAP	F				
	N-PAK AMS	3.4	SL	4.9 %	v/v	2.5	lb ai/a	42DAP	F				
22	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B	99 a	99 a	99 a	99 a
	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	7DBP	B				
	N-PAK AMS	3.4	SL	4.9 %	v/v	2.5	lb ai/a	7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	42DAP	F				
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	42DAP	F				
	N-PAK AMS	3.4	SL	4.9 %	v/v	2.5	lb ai/a	42DAP	F				

Southern Illinois University

No-Till Corn Herbicide Programs.

Trial ID: 12-1-MW90

Location: Belleville Res. Center

Investigator: Bryan Young

									AMBEL	AMBEL	AMBEL	AMBEL	
									5-25-12 Control Percent	6-15-12 Control Percent	6-29-12 Control Percent	7-12-12 Control Percent	
									14 DA-B	28 DAP	42 DAP	56 DAP	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code				
23	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	C	92 b	99 a	99 a	99 a
	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	C				
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	PRE	C				
	N-PAK AMS	3.4	SL	4.9	% v/v	2.5	lb ai/a	PRE	C				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	42DAP	F				
	N-PAK AMS	3.4	SL	4.9	% v/v	2.5	lb ai/a	42DAP	F				
24	GRAMOXONE 2 SL	2	SL	0.75	lb ai/a	48	fl oz/a	7DBP	B	99 a	99 a	99 a	99 a
	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	7DBP	B				
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	7DBP	B				
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7DBP	B				
LSD (P=.05)									5.1	0.0	0.4	0.4	
Standard Deviation									3.1	0.0	0.2	0.3	
CV									3.47	0.0	0.26	0.29	
Replicate F									0.780	0.000	1.000	0.590	
Replicate Prob(F)									0.4643	1.0000	0.3757	0.5586	
Treatment F									240.963	0.000	42162.090	33143.105	
Treatment Prob(F)									0.0001	1.0000	0.0001	0.0001	

Southern Illinois University

No-Till Corn Herbicide Programs.

Trial ID: 12-1-MW90

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								PANDI	PANDI	PANDI	PANDI		
								5-25-12 Control Percent	6-15-12 Control Percent	6-29-12 Control Percent	7-12-12 Control Percent		
								14 DA-B	28 DAP	42 DAP	56 DAP		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code				
1	NONTREATED									0 e	0 g	0 g	0 f
2	SURESTART	4.25	SE	1.6 lb ai/a		3 pt/a		21DBP	A	97 bc	99 a	98 a	96 a
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		21DBP	A				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		21DBP	A				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP	A				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		4-6"W-1 E					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W-1 E					
3	SURESTART	4.25	SE	1.6 lb ai/a		3 pt/a		21DBP	A	94 d	99 a	98 a	96 a
	AATREX NINE-O	90	WG	1 lb ai/a		1.11 lb/a		21DBP	A				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		21DBP	A				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		21DBP	A				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP	A				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		4-6"W-1 E					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W-1 E					
4	KEYSTONE	5.25	SE	3.4 lb ai/a		2.6 qt/a		PRE	C	99 a	92 a-e	95 ab	93 a
	HORNET WDG	68.5	WG	0.128 lb ai/a		3 oz/a		PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		PRE	C				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		PRE	C				
5	SURESTART	4.25	SE	1.06 lb ai/a		2 pt/a		PRE	C	99 a	96 a-d	99 a	99 a
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		PRE	C				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		4-6"W-2 G					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W-2 G					
6	SURESTART	4.25	SE	1.33 lb ai/a		2.5 pt/a		PRE	C	99 a	97 abc	99 a	99 a
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		PRE	C				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		4-6"W-2 G					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W-2 G					
7	SURESTART	4.25	SE	1.33 lb ai/a		2.5 pt/a		PRE	C	99 a	98 a	99 a	99 a
	AATREX NINE-O	90	WG	1 lb ai/a		1.11 lb/a		PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		PRE	C				
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		PRE	C				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		4-6"W-2 G					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W-2 G					
8	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		PRE	C	99 a	99 a	99 a	99 a
	2,4-D AMINE 4	3.8	SL	0.475 lb ae/a		1 pt/a		PRE	C				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		PRE	C				
	SURESTART	4.25	SE	1.06 lb ai/a		2 pt/a		2-4"W	D				
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		2-4"W	D				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		2-4"W	D				
9	CORVUS	2.62	SC	0.115 lb ai/a		5.6 fl oz/a		7DBP	B	99 a	97 abc	96 ab	95 a
	AATREX NINE-O	90	WG	1 lb ai/a		1.11 lb/a		7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a		22 fl oz/a		7DBP	B				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		7DBP	B				
10	CORVUS	2.62	SC	0.115 lb ai/a		5.6 fl oz/a		7DBP	B	99 a	97 ab	95 ab	94 a
	AATREX NINE-O	90	WG	1 lb ai/a		1.11 lb/a		7DBP	B				
	LIBERTY 280	2.34	EC	0.402 lb ai/a		22 fl oz/a		7DBP	B				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		7DBP	B				

Southern Illinois University

No-Till Corn Herbicide Programs.

Trial ID: 12-1-MW90

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								PANDI	PANDI	PANDI	PANDI										
								5-25-12 Control Percent	6-15-12 Control Percent	6-29-12 Control Percent	7-12-12 Control Percent										
								14 DA-B	28 DAP	42 DAP	56 DAP										
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code												
11	CORVUS SHARPEN MSO (MSO ULTRA) N-PAK AMS	2.62 SC	2.85 SC	100 SL	100 SL	0.115 lb ai/a	0.067 lb ai/a	1 % v/v	2.5 % v/v	5.6 fl oz/a	3 fl oz/a	1 % v/v	2.5 % v/v	7DBP B	7DBP B	7DBP B	7DBP B	99 a	88 e	95 ab	91 abc
12	CORVUS AATREX NINE-O CLARITY COC (PRIME OIL)	2.62 SC	90 WG	4 SL	100 SL	0.115 lb ai/a	1 lb ai/a	0.25 lb ae/a	1 % v/v	5.6 fl oz/a	1.11 lb/a	8 fl oz/a	1 % v/v	7DBP B	7DBP B	7DBP B	7DBP B	99 a	89 de	94 abc	91 ab
13	CORVUS AATREX NINE-O CLARITY COC (PRIME OIL)	2.62 SC	90 WG	4 SL	100 SL	0.115 lb ai/a	1 lb ai/a	0.5 lb ae/a	1 % v/v	5.6 fl oz/a	1.11 lb/a	16 fl oz/a	1 % v/v	7DBP B	7DBP B	7DBP B	7DBP B	99 a	92 a-e	96 ab	93 a
14	BALANCE FLEXX AATREX NINE-O CLARITY COC (PRIME OIL)	2 SC	90 WG	4 SL	100 SL	0.094 lb ai/a	1 lb ai/a	0.25 lb ae/a	1 % v/v	6 fl oz/a	1.11 lb/a	8 fl oz/a	1 % v/v	7DBP B	7DBP B	7DBP B	7DBP B	96 bc	72 f	75 f	68 e
15	BALANCE FLEXX AATREX NINE-O CLARITY COC (PRIME OIL)	2 SC	90 WG	4 SL	100 SL	0.094 lb ai/a	1 lb ai/a	0.5 lb ae/a	1 % v/v	6 fl oz/a	1.11 lb/a	16 fl oz/a	1 % v/v	7DBP B	7DBP B	7DBP B	7DBP B	96 c	72 f	75 f	80 d
16	CORVUS AATREX NINE-O COC (PRIME OIL)	2.62 SC	90 WG	100 SL		0.115 lb ai/a	1 lb ai/a	1 % v/v		5.6 fl oz/a	1.11 lb/a	1 % v/v		7DBP B	7DBP B	7DBP B		99 a	91 b-e	95 abc	92 ab
17	LEXAR TOUCHDOWN TOTAL N-PAK AMS	3.7 SC	4.17 SL	100 SL		2.78 lb ai/a	0.78 lb ae/a	2.5 % v/v		3 qt/a	24 fl oz/a	2.5 % v/v		7DBP B	7DBP B	7DBP B		99 a	93 a-e	87 de	78 d
18	HARNESS XTRA 5.6 ROUNDUP POWERMAX N-PAK AMS	5.6 EC	4.5 SL	100 SL		4.2 lb ai/a	0.77 lb ae/a	2.5 % v/v		3 qt/a	22 fl oz/a	2.5 % v/v		7DBP B	7DBP B	7DBP B		99 a	95 a-d	91 bcd	82 cd
19	NONTREATED																	0 e	0 g	0 g	0 f
20	ROUNDUP POWERMAX FIERCE N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	4.5 SL	76 WG	3.4 SL	4.5 SL	3.4 SL	0.77 lb ae/a	0.143 lb ai/a	4.9 % v/v	22 fl oz/a	3 oz/a	2.5 lb ai/a	2.5 lb ai/a	7DBP B	7DBP B	7DBP B	42DAP F	99 a	93 a-e	89 cd	96 a
21	ROUNDUP POWERMAX FIERCE AATREX NINE-O N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	4.5 SL	76 WG	90 WG	3.4 SL	4.5 SL	0.77 lb ae/a	0.143 lb ai/a	1 lb ai/a	22 fl oz/a	3 oz/a	1.11 lb/a	2.5 lb ai/a	7DBP B	7DBP B	7DBP B	42DAP F	99 a	95 a-d	92 bcd	96 a
22	ROUNDUP POWERMAX FIERCE N-PAK AMS ROUNDUP POWERMAX AATREX NINE-O N-PAK AMS	4.5 SL	76 WG	3.4 SL	4.5 SL	90 WG	3.4 SL	0.77 lb ae/a	0.143 lb ai/a	22 fl oz/a	3 oz/a	1.11 lb/a	2.5 lb ai/a	7DBP B	7DBP B	7DBP B	42DAP F	99 a	90 cde	83 e	94 a

Southern Illinois University

No-Till Corn Herbicide Programs.

Trial ID: 12-1-MW90

Location: Belleville Res. Center

Investigator: Bryan Young

								PANDI	PANDI	PANDI	PANDI		
								5-25-12 Control Percent	6-15-12 Control Percent	6-29-12 Control Percent	7-12-12 Control Percent		
								14 DA-B	28 DAP	42 DAP	56 DAP		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code				
23	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	C	98 ab	96 a-d	96 ab	96 a
	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	C				
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	PRE	C				
	N-PAK AMS	3.4	SL	4.9	% v/v	2.5	lb ai/a	PRE	C				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	42DAP	F				
	N-PAK AMS	3.4	SL	4.9	% v/v	2.5	lb ai/a	42DAP	F				
24	GRAMOXONE 2 SL	2	SL	0.75	lb ai/a	48	fl oz/a	7DBP	B	99 a	93 a-e	92 bcd	83 bcd
	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	7DBP	B				
	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	7DBP	B				
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	7DBP	B				
LSD (P=.05)								1.6	7.0	5.6	9.3		
Standard Deviation								0.9	4.3	3.4	5.6		
CV								1.04	5.04	4.01	6.74		
Replicate F								0.673	1.794	0.511	1.833		
Replicate Prob(F)								0.5150	0.1778	0.6030	0.1714		
Treatment F								2613.239	120.549	188.535	68.130		
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001		

No-Till Corn Herbicide Programs.

Trial ID: 12-1-MW90

Location: Belleville Res. Center

Investigator: Bryan Young

Trial Comments

1. Protocol: Dow, Bayer (BLL), Valent (Fierce MD68.01), Syngenta.
2. Ratings: CI at 14 DA-B, 14 and 28 DAP. WC at 14 DA-B, 28, 42, and 56 DAP.
3. Percent ground cover by species at application B in nontreated plots.
4. Photos.
5. If CI observed, please describe symptoms (there was no crop injury observed at any time).
6. No yield.
7. Rainfall following the 21DBP application was 3.06 inch 3 days later.
Rainfall following the 7DBP application was 0.18 inch 10 days later then 0.28 inch 20 days later.
Rainfall following the PRE application was 0.18 inch 3 days later then 0.28 inch 13 days later.
8. Ground cover at application B in the nontreated plots was;
AMBTR 7%, AMBEL 2%, and PANDI 1%.
Also present were winter annuals; ALOCA 5%, STEME 10%, SENGL 1%, and VERPG 5%.
9. Not harvested.