

One-Pass Weed Control Systems in Corn.

Trial ID: 11-2B-M100 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: 6-4-11

Objectives: Evaluate various herbicide programs to achieve one-pass weed control in corn when applied either preemergence, early-postemergence, or mid-postemergence.

Crop 1: ZEAMD Dent corn Variety: DKC 61-21 GENSS Description: RR2/LL
 Planting Method: SEDED Planting Date: 6-4-11
 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: AMBTR Ambrosia trifida L. ragweed, giant
 Pest 3 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest 4 Type: W Code: IPOSS morningglory, species
 Pest Description: Mixture of IPOHE and IPOLA

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 28 FT Tillage Type: REDUCED-TILL
 Replications: 4 Study Design: Randomized Complete Block

Prior Crops, Year
 1. GLXMA 2010

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

% OM: 1.6 Texture: SILT LOAM
 pH: 6.8 Soil Name: PIERRON
 CEC: 8 Fert. Level: P1: 77 LB/A, K: 252 LB/A

	Application Description		
	A	B	C
Application Date:	6-5-11	6-10-11	6-21-11
Time of Day:	18:30	7:00	10:45
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	V1-2	V3-4
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	LAH	RFK	LAH
Air Temperature, Unit:	84 F	79 F	81 F
% Relative Humidity:	55	77	79
Wind Velocity, Unit:	3 MPH	2 MPH	6 MPH
Wind Direction:	SE	SW	S
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	75 F	77 F	77 F
Soil Moisture:	NORMAL	NORMAL	ABONOR
% Cloud Cover:	0	0	10

	5-6-11	10-6-11	21-6-11
Crop stage at application:	NA	V1	V4
Height Min, Max (inch):	2	3 8	10

	Pest Stage At Each Application		
	6-5-11	6-10-11	6-21-11
Application Date:	6-5-11	6-10-11	6-21-11
Weed Code:	SETFA	SETFA	SETFA
Stage Majority (leaves):	NA	1	4
Stage Min, Max:		1 3	3 7
Height Majority:		0.5 IN	4 IN
Height Min, Max:		0 0.5	1 8
Density, Unit:		0.01 FT2	0.01 FT2
Weed Code:	AMBTR	AMBTR	AMBTR
Stage Majority (leaves):	NA	2	4
Stage Min, Max:		1 2	coty 8
Height Majority:		0.5 IN	3 IN
Height Min, Max:		0 0.5	0.5 5
Density, Unit:		0.01 FT2	0.01 FT2
Weed Code:	AMATA	AMATA	AMATA
Stage Majority (leaves):	NA	NA	7
Stage Min, Max:			coty 9
Height Majority:			3 IN
Height Min, Max:			0.5 3
Density, Unit:			0.01 FT2
Weed Code:	IPOSS	IPOSS	IPOSS
Stage Majority (leaves):	NA	2	4
Stage Min, Max:		1 2	coty 7
Height Majority:		0.5 IN	3 IN
Height Min, Max:		0 0.5	0.5 5
Density, Unit:		0.01 FT2	0.01 FT2

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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

One-Pass Weed Control Systems in Corn.

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Pest Code		Crop Code		Rating Date		Rating Data Type		Rating Unit		Rating Timing		Trt-Eval Interval		ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD
														10-25-11	10-25-11	10-25-11	Injury	Injury	Injury	Injury	Injury
														Moisture	Test wt.	Yield	Percent	Percent	Percent	Percent	Percent
														Percent	lb/bu	bu/A	19 DA-A	7 DA-C	14 DA-C	28 DA-C	56 DA-C
																	14 DA-B	18 DA-B	28 DA-B	39 DA-B	56 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code												
1	NONTREATED													10.1 c	63.0 a	12 c	0 a	0 e	0 a	0 a	0 a
2	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	PRE	A					21.2 a	57.7 c	70 a	0 a	0 e	0 a	0 a	0 a
2	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A												
3	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	V1-2	B					21.1 a	57.8 c	61 a	0 a	1 de	0 a	0 a	0 a
3	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V1-2	B												
4	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C					22.3 a	57.2 c	58 a		3 abc	0 a	0 a	0 a
4	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V3-4	C												
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C												
5	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C					22.1 a	57.5 c	68 a		0 e	0 a	0 a	0 a
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V3-4	C												
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C												
6	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C					20.0 a	58.1 c	50 ab		2 a-d	0 a	0 a	0 a
6	AATREX	4	SC	1	lb ai/a	1	qt/a	V3-4	C												
6	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V3-4	C												
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C												
7	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C					19.2 a	58.3 c	53 ab		2 bcd	0 a	0 a	0 a
7	AATREX	4	SC	1	lb ai/a	1	qt/a	V3-4	C												
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V3-4	C												
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C												
8	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	PRE	A					20.4 a	58.0 c	64 a	0 a	0 e	0 a	0 a	0 a
9	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A					21.6 a	57.5 c	68 a	0 a	2 cde	0 a	0 a	0 a
9	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A												
10	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V3-4	C					18.9 ab	58.6 c	58 a		0 e	0 a	0 a	0 a
10	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V3-4	C												
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C												
11	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V3-4	C					20.0 a	58.2 c	60 a		0 e	0 a	0 a	0 a
11	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V3-4	C												
11	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V3-4	C												
11	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C												
12	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	V3-4	C					18.9 ab	58.8 bc	59 a		0 e	0 a	0 a	0 a
12	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	V3-4	C												
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C												
13	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	V3-4	C					19.8 a	58.3 c	56 a		4 ab	0 a	0 a	0 a
13	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V3-4	C												
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V3-4	C												
13	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C												
14	SOLIDA	25	WG	0.0156	lb ai/a	1	oz/a	V3-4	C					14.8 b	60.7 b	32 bc		4 a	0 a	0 a	0 a
14	GLYFOS X-TRA	3	SL	0.75	lb ae/a	32	fl oz/a	V3-4	C												
14	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C												
15	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	V1-2	B					19.6 a	58.6 c	62 a	0 a	0 e	0 a	0 a	0 a
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	V1-2	B												
15	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V1-2	B												
LSD (P=.05)														4.34	1.95	23.7	0.0	1.9	0.0	0.0	0.0
Replicate F														10.483	10.357	8.502	0.000	4.245	0.000	0.000	0.000
Replicate Prob(F)														0.0001	0.0001	0.0002	1.0000	0.0107	1.0000	1.0000	1.0000
Treatment F														4.227	4.745	3.345	0.000	5.340	0.000	0.000	0.000
Treatment Prob(F)														0.0001	0.0001	0.0012	1.0000	0.0001	1.0000	1.0000	1.0000

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

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Pest Code								SEFTA	SEFTA	SETFA	SETFA	SETFA		
Crop Code								Control	Control	Control	Control	Control		
Rating Date								Percent	Percent	Percent	Percent	Percent		
Rating Data Type								19 DA-A	7 DA-C	14 DA-C	28 DA-C	56 DA-C		
Rating Unit								14 DA-B	18 DA-B	28 DA-B	39 DA-B	56 DA-B		
Rating Timing														
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 b	0 d	0 c	0 e	0 d
2	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	PRE	A	99 a	99 a	99 a	99 a	98 abc
2	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A					
3	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	V1-2	B	99 a	99 a	99 a	99 a	99 ab
3	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V1-2	B					
4	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C		91 c	98 b	97 bc	97 c
4	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V3-4	C					
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
5	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C		99 a	99 a	99 a	99 a
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V3-4	C					
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
6	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C		97 b	99 a	99 a	99 ab
6	AATREX	4	SC	1	lb ai/a	1	qt/a	V3-4	C					
6	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V3-4	C					
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
7	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C		99 a	99 a	99 a	99 a
7	AATREX	4	SC	1	lb ai/a	1	qt/a	V3-4	C					
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V3-4	C					
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
8	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	PRE	A	99 a	99 a	98 ab	99 a	99 ab
9	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	99 a	99 a	99 a	95 d	98 bc
9	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A					
10	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V3-4	C		98 a	99 a	98 ab	99 a
10	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V3-4	C					
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
11	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V3-4	C		99 a	99 a	99 a	99 a
11	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V3-4	C					
11	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V3-4	C					
11	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
12	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	V3-4	C		99 a	99 a	99 a	99 ab
12	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	V3-4	C					
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
13	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	V3-4	C		99 a	99 a	96 cd	98 bc
13	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V3-4	C					
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V3-4	C					
13	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
14	SOLIDA	25	WG	0.0156	lb ai/a	1	oz/a	V3-4	C		99 a	99 a	99 a	98 abc
14	GLYFOS X-TRA	3	SL	0.75	lb ae/a	32	fl oz/a	V3-4	C					
14	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
15	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	V1-2	B	99 a	99 a	99 a	98 ab	98 abc
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	V1-2	B					
15	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V1-2	B					
LSD (P=.05)										0.3	1.3	0.8	1.9	1.3
Replicate F										1.000	0.344	0.369	1.977	1.530
Replicate Prob(F)										0.4199	0.7933	0.7756	0.1329	0.2215
Treatment F										156658.609	3146.496	9109.313	1492.348	2911.805
Treatment Prob(F)										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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Location: Belleville Res. Center

Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Control Percent 19 DA-A 14 DA-B	Control Percent 7 DA-C 18 DA-B	Control Percent 14 DA-C 28 DA-B	Control Percent 28 DA-C 39 DA-B	Control Percent 56 DA-C 56 DA-B
1	NONTREATED									0 c	0 e	0 c	0 d	0 e
2	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	PRE	A	98 a	99 a	99 a	98 a	99 ab
2	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A					
3	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	V1-2	B	98 a	99 a	98 a	98 a	98 ab
3	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V1-2	B					
4	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C		97 bc	99 a	98 a	99 ab
4	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V3-4	C					
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
5	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C		98 ab	99 a	97 a	98 ab
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V3-4	C					
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
6	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C		99 a	99 a	98 a	96 bc
6	AATREX	4	SC	1	lb ai/a	1	qt/a	V3-4	C					
6	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V3-4	C					
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
7	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C		99 a	99 a	97 a	98 ab
7	AATREX	4	SC	1	lb ai/a	1	qt/a	V3-4	C					
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V3-4	C					
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
8	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	PRE	A	98 a	99 a	98 a	97 a	98 ab
9	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	99 a	99 a	98 a	97 a	97 abc
9	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A					
10	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V3-4	C		99 a	99 a	98 a	98 ab
10	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V3-4	C					
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
11	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V3-4	C		99 a	98 a	98 a	98 ab
11	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V3-4	C					
11	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V3-4	C					
11	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
12	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	V3-4	C		98 ab	99 a	98 a	99 a
12	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	V3-4	C					
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
13	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	V3-4	C		99 a	99 a	98 a	96 bc
13	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V3-4	C					
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V3-4	C					
13	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
14	SOLIDA	25	WG	0.0156	lb ai/a	1	oz/a	V3-4	C		94 d	95 b	88 c	80 d
14	GLYFOS X-TRA	3	SL	0.75	lb ae/a	32	fl oz/a	V3-4	C					
14	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
15	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	V1-2	B	94 b	96 c	94 b	92 b	94 c
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	V1-2	B					
15	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V1-2	B					
LSD (P=.05)										1.6	1.3	2.0	2.3	3.2
Replicate F										2.780	1.604	3.475	3.769	0.632
Replicate Prob(F)										0.0799	0.2037	0.0247	0.0179	0.5984
Treatment F										5663.805	2989.644	1245.841	1010.980	522.189
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

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

One-Pass Weed Control Systems in Corn.

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Location: Belleville Res. Center

Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	AMATA	AMATA	AMATA	AMATA	AMATA
							Control Percent 19 DA-A 14 DA-B	Control Percent 7 DA-C 18 DA-B	Control Percent 14 DA-C 28 DA-B	Control Percent 28 DA-C 39 DA-B	Control Percent 56 DA-C 56 DA-B

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 d	0 e	0 c
2	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	PRE	A	99 a	99 a	99 a	99 a	98 a
2	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A					
3	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	V1-2	B	99 a	99 a	99 a	98 ab	99 a
3	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V1-2	B					
4	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C		99 a	99 ab	99 a	98 a
4	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V3-4	C					
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
5	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C		99 a	99 a	99 a	99 a
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V3-4	C					
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
6	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C		99 a	99 a	99 a	99 a
6	AATREX	4	SC	1	lb ai/a	1	qt/a	V3-4	C					
6	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V3-4	C					
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
7	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C		99 a	99 a	99 a	99 a
7	AATREX	4	SC	1	lb ai/a	1	qt/a	V3-4	C					
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V3-4	C					
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
8	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	PRE	A	99 a	99 a	99 a	99 a	99 a
9	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	99 a	99 a	99 a	98 ab	98 a
9	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A					
10	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V3-4	C		99 a	99 a	99 a	98 a
10	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V3-4	C					
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
11	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V3-4	C		99 a	99 a	99 a	99 a
11	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V3-4	C					
11	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V3-4	C					
11	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
12	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	V3-4	C		99 a	99 a	97 bc	98 a
12	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	V3-4	C					
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
13	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	V3-4	C		99 a	98 b	98 ab	96 a
13	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V3-4	C					
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V3-4	C					
13	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
14	SOLIDA	25	WG	0.0156	lb ai/a	1	oz/a	V3-4	C		99 a	97 c	89 d	89 b
14	GLYFOS X-TRA	3	SL	0.75	lb ae/a	32	fl oz/a	V3-4	C					
14	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C					
15	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	V1-2	B	99 a	99 a	99 ab	97 c	98 a
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	V1-2	B					
15	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V1-2	B					
LSD (P=.05)										0.0	0.0	0.6	1.2	3.3
Replicate F										0.000	0.000	0.403	0.952	0.533
Replicate Prob(F)										1.0000	1.0000	0.7517	0.4245	0.6622
Treatment F										0.000	0.000	17159.217	3897.284	487.326
Treatment Prob(F)										1.0000	1.0000	0.0001	0.0001	0.0001

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

One-Pass Weed Control Systems in Corn.

Trial ID: 11-2B-M100

Location: Belleville Res. Center

Pest Code								IPOSS	IPOSS	IPOSS	IPOSS	IPOSS	PANDI		
Crop Code															
Rating Date															
Rating Data Type								Control	Control	Control	Control	Control	Control		
Rating Unit								Percent	Percent	Percent	Percent	Percent	Percent		
Rating Timing								19 DA-A	7 DA-C	14 DA-C	28 DA-C	56 DA-C	56 DA-C		
Trt-Eval Interval								14 DA-B	18 DA-B	28 DA-B	39 DA-B	56 DA-B	56 DA-B		
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 d	0 e	0 e	
2	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	PRE	A	99 a	99 a	99 a	98 ab	98 a	
2	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A						
3	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	V1-2	B	98 a	99 a	98 a	98 abc	97 abc	
3	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V1-2	B						
4	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C		80 d	95 c	94 cd	94 cd	89 b
4	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V3-4	C						
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C						
5	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C		92 c	97 abc	95 bcd	95 abc	96 ab
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V3-4	C						
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C						
6	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C		98 a	98 ab	96 a-d	95 bc	98 a
6	AATREX	4	SC	1	lb ai/a	1	qt/a	V3-4	C						
6	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	V3-4	C						
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C						
7	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V3-4	C		99 a	99 a	98 ab	99 a	99 a
7	AATREX	4	SC	1	lb ai/a	1	qt/a	V3-4	C						
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V3-4	C						
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C						
8	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	PRE	A	99 a	99 a	99 a	97 abc	98 a	
9	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	98 a	99 a	99 a	99 a	99 a	
9	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A						
10	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V3-4	C		99 a	97 abc	97 abc	97 abc	95 ab
10	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V3-4	C						
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C						
11	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V3-4	C		99 a	99 a	98 abc	97 abc	98 a
11	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V3-4	C						
11	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V3-4	C						
11	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C						
12	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	V3-4	C		93 bc	97 abc	95 bcd	95 bc	97 a
12	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	V3-4	C						
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C						
13	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	V3-4	C		98 a	98 a	96 abc	97 abc	96 ab
13	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V3-4	C						
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V3-4	C						
13	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C						
14	SOLIDA	25	WG	0.0156	lb ai/a	1	oz/a	V3-4	C		94 bc	98 a	92 d	98 ab	99 a
14	GLYFOS X-TRA	3	SL	0.75	lb ae/a	32	fl oz/a	V3-4	C						
14	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-4	C						
15	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	V1-2	B	95 b	97 ab	95 bc	95 a-d	91 d	
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	V1-2	B						
15	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V1-2	B						
LSD (P=.05)										1.2	4.0	2.5	3.9	3.4	6.7
Replicate F										0.943	2.382	0.412	3.166	0.984	1.885
Replicate Prob(F)										0.4444	0.0837	0.7455	0.0347	0.4099	0.1616
Treatment F										10796.209	324.771	801.327	335.341	444.995	1.665
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.1635

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

One-Pass Weed Control Systems in Corn.

Trial ID: 11-2B-M100

Location: Belleville Res. Center

Trial Comments

1. Protocol: Bayer (BLI); Cheminova; Dow; Syngenta.
2. Ratings: CI/WC at 14, 28 and 56 DA-B (rate A+B applications), and at 7, 14, 28, and 56 DA-C.
3. Yield.
4. Ratings at 14 DA-B were on 6-24-11.
Ratings at 7 DA-C were on 6-28-11.
Ratings at 14 DA-C and 28 DA-B were on 7-5-11 and 7-8-11, respectively.
Ratings at 28 DA-C were on 7-19-11.
Ratings at 56 DA-B and 56 DA-C were on 8-5-11 and 8-16-11, respectively.
5. IPOSS = Morningglory species including IPOHE (ivyleaf morningglory) and IPOLA (pitted morningglory).
6. Harvested 10-25-11, (2) 30 inch rows by 25 ft.