

Impact Sequential Programs in Corn.

Trial ID: 11-50E-MS50 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: To compare performance of Impact to other postemergence products when used in sequential weed control programs and in tank-mixes with glyphosate in corn.

Crop 1: ZEAMD Dent corn Variety: DKC 61-21 GENSS Description: RR2/LL
 Planting Method: SEEDED 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: AMBTR Ambrosia trifida L. ragweed, giant
 Pest 2 Type: W Code: IPOSS morningglory, species
 Pest Description: Mixture of IPOHE and IPOLA
 Pest 3 Type: W Code: PANDI Panicum dichotomiflorum Michx. panicum, fall
 Pest 4 Type: W Code: CYPES Cyperus esculentus L. nutsedge, yellow

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 27 FT Tillage Type: REDUCED-TILL
 Replications: 3 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: 6.7 Soil Name: PIERRON
 CEC: 10 Fert. Level: P1: 78 LB/A, K: 281 LB/A

Application Description

	A	B	C
Application Date:	6-6-11	6-21-11	6-21-11
Time of Day:	12:15	12:30	12:30
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	2-4"W-1	2-4"W-2
Application Placement:	BROSUI	BROFOL	BROFOL
Applied By:	JRK	LAH	LAH
Air Temperature, Unit:	93 F	85 F	85 F
% Relative Humidity:	41	75	75
Wind Velocity, Unit:	5 MPH	5 MPH	5 MPH
Wind Direction:	SW	S	S
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	76 F	77 F	77 F
Soil Moisture:	NORMAL	ABONOR	ABONOR
% Cloud Cover:	0	27	27

	A	B	C
Crop stage at application:	NA	V4	V4
Height Min, Max (inch):	5	9 5	9

Pest Stage At Each Application

	6-6-11	6-21-11	6-21-11
Application Date:	6-6-11	6-21-11	6-21-11
Weed Code:	AMBTR	AMBTR	AMBTR
Stage Majority (leaves):	NA	4	4
Stage Min, Max:		coty 6	coty 6
Height Majority:		3 IN	3 IN
Height Min, Max:		1 4	1 4
Density, Unit:		2 FT2	2 FT2
Weed Code:	IPOSS	IPOSS	IPOSS
Stage Majority (leaves):	NA	coty	coty
Stage Min, Max:		coty 4	coty 4
Height Majority:		1 IN	1 IN
Height Min, Max:		1 2	1 2
Density, Unit:		0.5 FT2	0.5 FT2
Weed Code:	PANDI	PANDI	PANDI
Stage Majority (leaves):	NA	NA	NA
Weed Code:	CYPES	CYPES	CYPES
Stage Majority (leaves):	NA	5	5
Stage Min, Max:		2 6	2 6
Height Majority:		3 IN	3 IN
Height Min, Max:		2 4	2 4
Density, Unit:		0.1 FT2	0.1 FT2

Application Equipment

	CO2 sprayer	CO2 sprayer	CO2 sprayer
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	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	OVERALL										
							ZEAMD 10-26-11 Moisture Percent	ZEAMD 10-26-11 Test wt. lb/bu	ZEAMD 10-26-11 Yield bu/A	ZEAMD 6-27-11 Injury Percent 6 DA-B 6 DA-C	ZEAMD 7-5-11 Injury Percent 14 DA-B 14 DA-C	ZEAMD 7-19-11 Injury Percent 14 DA-B 14 DA-C	ZEAMD 6-27-11 Control Percent 6 DA-B 6 DA-C				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code								
1	NONTREATED										10.1 b	63.7 a	11 b	0 b	0 b	0 a	0 e
2	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A		18.7 a	59.1 b	48 a	0 b	0 b	0 a	92 d
3	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A		20.3 a	58.4 b	71 a	0 b	0 b	0 a	98 ab
3	IMPACT	2.8	SC	0.0147	lb ai/a	0.67	fl oz/a	2-4"W-2	C								
3	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W-2	C								
3	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	2-4"W-2	C								
3	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W-2	C								
4	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A		17.9 a	59.5 b	57 a	0 b	0 b	0 a	98 ab
4	IMPACT	2.8	SC	0.0219	lb ai/a	1	fl oz/a	2-4"W-2	C								
4	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W-2	C								
4	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	2-4"W-2	C								
4	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W-2	C								
5	VERDICT	5.57	EC	0.435	lb ai/a	10	fl oz/a	PRE	A		19.6 a	58.8 b	67 a	0 b	0 b	0 a	98 ab
5	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	2-4"W-2	C								
5	AATREX	4	SC	0.75	lb ai/a	1.5	pt/a	2-4"W-2	C								
5	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	2-4"W-2	C								
5	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W-2	C								
6	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A		19.3 a	58.9 b	59 a	1 b	0 b	0 a	99 ab
6	IMPACT	2.8	SC	0.0147	lb ai/a	0.67	fl oz/a	2-4"W-2	C								
6	STATUS	56	WG	0.0875	lb ai/a	2.5	oz/a	2-4"W-2	C								
6	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W-2	C								
6	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	2-4"W-2	C								
6	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W-2	C								
7	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A		17.4 a	59.8 b	52 a	0 b	0 b	0 a	99 a
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C								
7	N-PAK AMS	100	SL	2.5	% v/v	3	pt/a	2-4"W-2	C								
8	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A		19.0 a	59.0 b	55 a	0 b	0 b	0 a	99 ab
8	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	2-4"W-2	C								
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C								
8	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W-2	C								
8	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	2-4"W-2	C								
8	N-PAK AMS	100	SL	2.5	% v/v	3	pt/a	2-4"W-2	C								
9	HARNESS XTRA 5.6	5.6	EC	2.24	lb ai/a	3.2	pt/a	2-4"W-1	B		17.9 a	59.2 b	46 a	7 a	4 a	0 a	96 c
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B								
9	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	2-4"W-1	B								
9	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	2-4"W-1	B								
9	N-PAK AMS	100	SL	2.5	% v/v	3	pt/a	2-4"W-1	B								
10	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-1	B		18.8 a	59.1 b	57 a	0 b	0 b	0 a	98 b
10	AATREX	4	SC	1	lb ai/a	2	pt/a	2-4"W-1	B								
10	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	2-4"W-1	B								
10	N-PAK AMS	100	SL	2.5	% v/v	3	pt/a	2-4"W-1	B								
LSD (P=.05)											3.72	1.85	27.0	1.4	2.0	0.0	1.1
Replicate F											6.389	7.086	3.443	1.838	1.000	0.000	0.612
Replicate Prob(F)											0.0080	0.0054	0.0542	0.1878	0.3874	1.0000	0.5534
Treatment F											5.235	5.893	3.220	22.534	3.692	0.000	7494.564
Treatment Prob(F)											0.0014	0.0007	0.0166	0.0001	0.0088	1.0000	0.0001

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

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Crop Code													
Rating Date								6-27-11	7-5-11	7-19-11	8-16-11		
Rating Data Type								Control	Control	Control	Control		
Rating Unit								Percent	Percent	Percent	Percent		
Rating Timing								6 DA-B	14 DA-B	28 DA-B	56 DA-B		
Trt-Eval Interval								6 DA-C	14 DA-C	28 DA-C	56 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 f	0 c	0 d	0 c
2	DEGREE XTRA	4.04	CS	2.02	lb ai/a		2 qt/a	PRE	A	91 e	91 b	43 c	47 b
3	DEGREE XTRA	4.04	CS	2.02	lb ai/a		2 qt/a	PRE	A	99 ab	98 a	93 a	93 a
3	IMPACT	2.8	SC	0.0147	lb ai/a	0.67	fl oz/a	2-4"W-2	C				
3	AATREX	4	SC	0.5	lb ai/a		1 pt/a	2-4"W-2	C				
3	MSO (MSO ULTRA)	100	SL	1	% v/v		1 % v/v	2-4"W-2	C				
3	28% UAN	100	SL	2.5	% v/v		2.5 % v/v	2-4"W-2	C				
4	DEGREE XTRA	4.04	CS	2.02	lb ai/a		2 qt/a	PRE	A	98 abc	98 a	89 ab	90 a
4	IMPACT	2.8	SC	0.0219	lb ai/a		1 fl oz/a	2-4"W-2	C				
4	AATREX	4	SC	0.5	lb ai/a		1 pt/a	2-4"W-2	C				
4	MSO (MSO ULTRA)	100	SL	1	% v/v		1 % v/v	2-4"W-2	C				
4	28% UAN	100	SL	2.5	% v/v		2.5 % v/v	2-4"W-2	C				
5	VERDICT	5.57	EC	0.435	lb ai/a	10	fl oz/a	PRE	A	97 bc	98 a	93 a	95 a
5	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	2-4"W-2	C				
5	AATREX	4	SC	0.75	lb ai/a	1.5	pt/a	2-4"W-2	C				
5	MSO (MSO ULTRA)	100	SL	1	% v/v		1 % v/v	2-4"W-2	C				
5	28% UAN	100	SL	2.5	% v/v		2.5 % v/v	2-4"W-2	C				
6	DEGREE XTRA	4.04	CS	2.02	lb ai/a		2 qt/a	PRE	A	99 ab	98 a	90 ab	91 a
6	IMPACT	2.8	SC	0.0147	lb ai/a	0.67	fl oz/a	2-4"W-2	C				
6	STATUS	56	WG	0.0875	lb ai/a	2.5	oz/a	2-4"W-2	C				
6	AATREX	4	SC	0.5	lb ai/a		1 pt/a	2-4"W-2	C				
6	MSO (MSO ULTRA)	100	SL	1	% v/v		1 % v/v	2-4"W-2	C				
6	28% UAN	100	SL	2.5	% v/v		2.5 % v/v	2-4"W-2	C				
7	DEGREE XTRA	4.04	CS	2.02	lb ai/a		2 qt/a	PRE	A	99 a	97 a	85 b	88 a
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C				
7	N-PAK AMS	100	SL	2.5	% v/v		3 pt/a	2-4"W-2	C				
8	DEGREE XTRA	4.04	CS	2.02	lb ai/a		2 qt/a	PRE	A	98 abc	97 a	89 ab	90 a
8	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	2-4"W-2	C				
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C				
8	AATREX	4	SC	0.5	lb ai/a		1 pt/a	2-4"W-2	C				
8	DESTINY HC	100	SL	0.5	% v/v		0.5 % v/v	2-4"W-2	C				
8	N-PAK AMS	100	SL	2.5	% v/v		3 pt/a	2-4"W-2	C				
9	HARNESS XTRA 5.6	5.6	EC	2.24	lb ai/a	3.2	pt/a	2-4"W-1	B	95 d	98 a	92 ab	93 a
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B				
9	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	2-4"W-1	B				
9	DESTINY HC	100	SL	0.5	% v/v		0.5 % v/v	2-4"W-1	B				
9	N-PAK AMS	100	SL	2.5	% v/v		3 pt/a	2-4"W-1	B				
10	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-1	B	97 cd	98 a	93 a	95 a
10	AATREX	4	SC	1	lb ai/a		2 pt/a	2-4"W-1	B				
10	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v		0.25 % v/v	2-4"W-1	B				
10	N-PAK AMS	100	SL	2.5	% v/v		3 pt/a	2-4"W-1	B				
LSD (P=.05)										1.7	1.4	7.0	7.7
Replicate F										1.449	7.630	0.633	2.369
Replicate Prob(F)										0.2608	0.0040	0.5425	0.1221
Treatment F										2867.719	4152.087	171.624	141.663
Treatment Prob(F)										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						IPOSS	IPOSS	IPOSS	IPOSS	PANDI	PANDI
Crop Code											
Rating Date						6-27-11	7-5-11	7-19-11	8-16-11	7-19-11	8-16-11
Rating Data Type						Control	Control	Control	Control	Control	Control
Rating Unit						Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing						6 DA-B	14 DA-B	28 DA-B	56 DA-B	28 DA-B	56 DA-B
Trt-Eval Interval						6 DA-C	14 DA-C	28 DA-C	56 DA-C	28 DA-C	56 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
2	DEGREE XTRA	4.04	CS	2.02	lb ai/a		2 qt/a	PRE	A	94 b	89 b
3	DEGREE XTRA	4.04	CS	2.02	lb ai/a		2 qt/a	PRE	A	99 a	99 a
3	IMPACT	2.8	SC	0.0147	lb ai/a	0.67	fl oz/a	2-4"W-2	C	93 a	92 a
3	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W-2	C	97 ab	97 a
3	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	2-4"W-2	C		
3	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W-2	C		
4	DEGREE XTRA	4.04	CS	2.02	lb ai/a		2 qt/a	PRE	A	98 a	98 a
4	IMPACT	2.8	SC	0.0219	lb ai/a	1	fl oz/a	2-4"W-2	C		
4	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W-2	C		
4	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	2-4"W-2	C		
4	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W-2	C		
5	VERDICT	5.57	EC	0.435	lb ai/a	10	fl oz/a	PRE	A	99 a	99 a
5	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	2-4"W-2	C	97 a	94 a
5	AATREX	4	SC	0.75	lb ai/a	1.5	pt/a	2-4"W-2	C	96 b	92 b
5	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	2-4"W-2	C		
5	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W-2	C		
6	DEGREE XTRA	4.04	CS	2.02	lb ai/a		2 qt/a	PRE	A	99 a	99 a
6	IMPACT	2.8	SC	0.0147	lb ai/a	0.67	fl oz/a	2-4"W-2	C	98 a	95 a
6	STATUS	56	WG	0.0875	lb ai/a	2.5	oz/a	2-4"W-2	C	98 ab	97 a
6	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W-2	C		
6	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	2-4"W-2	C		
6	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W-2	C		
7	DEGREE XTRA	4.04	CS	2.02	lb ai/a		2 qt/a	PRE	A	99 a	98 a
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C	91 a	94 a
7	N-PAK AMS	100	SL	2.5	% v/v	3	pt/a	2-4"W-2	C	98 ab	97 a
8	DEGREE XTRA	4.04	CS	2.02	lb ai/a		2 qt/a	PRE	A	99 a	99 a
8	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	2-4"W-2	C	98 a	96 a
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C	99 a	99 a
8	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W-2	C		
8	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	2-4"W-2	C		
8	N-PAK AMS	100	SL	2.5	% v/v	3	pt/a	2-4"W-2	C		
9	HARNESS XTRA 5.6	5.6	EC	2.24	lb ai/a	3.2	pt/a	2-4"W-1	B	98 a	99 a
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B	95 a	93 a
9	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	2-4"W-1	B	97 ab	98 a
9	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	2-4"W-1	B		
9	N-PAK AMS	100	SL	2.5	% v/v	3	pt/a	2-4"W-1	B		
10	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-1	B	99 a	99 a
10	AATREX	4	SC	1	lb ai/a	2	pt/a	2-4"W-1	B	99 a	99 a
10	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	2-4"W-1	B	96 a	98 ab
10	N-PAK AMS	100	SL	2.5	% v/v	3	pt/a	2-4"W-1	B	98 a	98 a
LSD (P=.05)										2.3	3.1
Replicate F										0.251	0.208
Replicate Prob(F)										0.7811	0.8142
Treatment F										0.655	0.754
Treatment Prob(F)										0.4848	0.0645
										1678.675	854.201
										0.0001	0.0001
										137.725	190.951
										0.0001	0.0001
										819.323	457.922
										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	CYPES	CYPES
Crop Code		
Rating Date	7-19-11	8-16-11
Rating Data Type	Control	Control
Rating Unit	Percent	Percent
Rating Timing	28 DA-B	56 DA-B
Trt-Eval Interval	28 DA-C	56 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
2	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	85 c	83 b
3	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	88 bc	87 ab
3	IMPACT	2.8	SC	0.0147	lb ai/a	0.67	fl oz/a	2-4"W-2	C		
3	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W-2	C		
3	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	2-4"W-2	C		
3	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W-2	C		
4	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	88 bc	87 ab
4	IMPACT	2.8	SC	0.0219	lb ai/a	1	fl oz/a	2-4"W-2	C		
4	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W-2	C		
4	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	2-4"W-2	C		
4	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W-2	C		
5	VERDICT	5.57	EC	0.435	lb ai/a	10	fl oz/a	PRE	A	92 abc	88 ab
5	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	2-4"W-2	C		
5	AATREX	4	SC	0.75	lb ai/a	1.5	pt/a	2-4"W-2	C		
5	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	2-4"W-2	C		
5	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W-2	C		
6	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	94 ab	95 a
6	IMPACT	2.8	SC	0.0147	lb ai/a	0.67	fl oz/a	2-4"W-2	C		
6	STATUS	56	WG	0.0875	lb ai/a	2.5	oz/a	2-4"W-2	C		
6	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W-2	C		
6	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	2-4"W-2	C		
6	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W-2	C		
7	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	90 abc	88 ab
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C		
7	N-PAK AMS	100	SL	2.5	% v/v	3	pt/a	2-4"W-2	C		
8	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	92 abc	91 ab
8	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	2-4"W-2	C		
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	C		
8	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W-2	C		
8	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	2-4"W-2	C		
8	N-PAK AMS	100	SL	2.5	% v/v	3	pt/a	2-4"W-2	C		
9	HARNESS XTRA 5.6	5.6	EC	2.24	lb ai/a	3.2	pt/a	2-4"W-1	B	88 bc	84 b
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B		
9	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	2-4"W-1	B		
9	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	2-4"W-1	B		
9	N-PAK AMS	100	SL	2.5	% v/v	3	pt/a	2-4"W-1	B		
10	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	2-4"W-1	B	97 a	96 a
10	AATREX	4	SC	1	lb ai/a	2	pt/a	2-4"W-1	B		
10	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	2-4"W-1	B		
10	N-PAK AMS	100	SL	2.5	% v/v	3	pt/a	2-4"W-1	B		

LSD (P=.05) 7.7 9.5

Replicate F	1.948	0.659
Replicate Prob(F)	0.1715	0.5295
Treatment F	122.974	79.090
Treatment Prob(F)	0.0001	0.0001

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

Trial Comments

1. Protocol: AMVAC (11-TPZ-H-100).
2. Ratings: CI at 4-7, 14, and 28 days after B and C; Overall burndown at 4-7 DA-C; WC at 14, 28, and 56 DA-C.
3. Yield.
4. Photos at 14 DA-C.

Impact Sequential Programs in Corn.

Trial ID: 11-50E-MS50

Location: Belleville Res. Center

5. IPOSS = Morningglory species including IPOHE (ivyleaf morningglory) and IPOLA (pitted morningglory).
6. Harvested 10-26-11, (2) 30 inch rows by 24 ft.