

Impact Sequential Programs.

Trial ID: 09-19B-S60

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: 05-22-09

Objectives: Compare performance of Impact to other postemergence products when used in sequential weed control programs and in tank-mixes with glyphosate in Roundup Ready corn.

Crop 1: ZEAMD Dent corn Variety: P33K44 Description: RR/LL
 Planting Method: SEEDDED Planting Date: 05-22-09
 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: XANST Xanthium strumarium L. cocklebur, common
 Pest 3 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant
 Pest 4 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf
 Pest 5 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 25 FT Tillage Type: REDUCED-TILL
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year
 1. GLXMA 2008

Field Prep./Maintenance: N 150 LB/A, P2O5 50 LB/A, K2O 100 LB/A

% OM: 2.9 Texture: SILT LOAM
 pH: 6.2 Soil Name: BETHALTO
 CEC: 14 Fert. Level: P1 79 LB/A, K 557 LB/A

Application Description

	A	B	C
Application Date:	05-22-09	06-18-09	06-12-09
Time of Day:	9:30	8:00	14:30
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	2-4"W	4-6"W
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	DKT	DKT	NRJ
Air Temperature, Unit:	74 F	80 F	70 F
% Relative Humidity:	92	92	92
Wind Velocity, Unit:	1 MPH	2 MPH	1 MPH
Wind Direction:	E	NE	N
Dew Presence (Y/N):	N	N	N
Soil Moisture:	NORMAL	ABONOR	ABONOR
% Cloud Cover:	2	30	100

	A	B	C
Crop stage at application:	NA	V4	V3-4
Height Min, Max (inch):		10 16	8 14

Pest Stage At Each Application

	A	B	C
Application Date:	05-22-09	06-18-09	06-12-09
Weed Code:	SETFA	SETFA	SETFA
Stage Majority (leaves):	NA	NA	2
Stage Min, Max:			1 3
Height Majority:			4 IN
Height Min, Max:			1 7
Density, Unit:			10 FT2
Weed Code:	XANST	XANST	XANST
Stage Majority (leaves):	NA	4	3
Stage Min, Max:		4 8	2 5
Height Majority:		4 IN	4 IN
Height Min, Max:		2 6	2 6
Density, Unit:		1 FT2	4 FT2
Weed Code:	AMBTR	AMBTR	AMBTR
Stage Majority (leaves):	NA	4	NA
Stage Min, Max:		4 8	
Height Majority:		4 IN	
Height Min, Max:		2 6	
Density, Unit:		0.25 FT2	
Weed Code:	ABUTH	ABUTH	ABUTH
Stage Majority (leaves):	NA	2	2
Stage Min, Max:		1 3	COTY 3
Height Majority:		3 IN	1 IN
Height Min, Max:		2 4	0.5 2
Density, Unit:		0.1 FT2	0.5 FT2
Weed Code:	AMATA	AMATA	AMATA
Stage Majority (leaves):	NA	NA	2
Stage Min, Max:			COTY 4
Height Majority:			1.5 IN
Height Min, Max:			0.5 2
Density, Unit:			1 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

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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
11-14-09	11-14-09				
Moisture	Yield	Injury	Injury	Injury	Injury
Percent	bu/A	Percent	Percent	Percent	Percent
		7 DAT	14 DAT	28 DAT	56 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	NONTREATED									15.3 a	21 b	0 a	0 a	0 a	0 a
2	BICEP II MAGNUM	5.5	SC	1.44	lb ai/a	2.1	pt/a	PRE	A	15.2 a	102 a	0 a	0 a	0 a	0 a
3	BICEP II MAGNUM	5.5	SC	1.44	lb ai/a	2.1	pt/a	PRE	A	15.2 a	111 a	0 a	0 a	0 a	0 a
3	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	2-4"W	B						
3	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W	B						
3	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	2-4"W	B						
3	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W	B						
4	BICEP II MAGNUM	5.5	SC	1.44	lb ai/a	2.1	pt/a	PRE	A	15.7 a	135 a	0 a	0 a	0 a	0 a
4	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	2-4"W	B						
4	ACCENT Q	54.5	WG			0.45	oz/a	2-4"W	B						
4	ACCENT	75	WG	0.01226	lb ai/a			2-4"W	B						
4	DPX-4145	50	WG	0.00307	lb ai/a			2-4"W	B						
4	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W	B						
4	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	2-4"W	B						
4	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W	B						
5	BICEP II MAGNUM	5.5	SC	1.44	lb ai/a	2.1	pt/a	PRE	A	15.6 a	112 a	0 a	0 a	0 a	0 a
5	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	2-4"W	B						
5	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W	B						
5	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	2-4"W	B						
5	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W	B						
6	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	15.3 a	113 a	0 a	0 a	0 a	0 a
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C						
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C						
7	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	15.4 a	105 a	0 a	0 a	0 a	0 a
7	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	4-6"W	C						
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C						
7	AATREX	4	SC	0.5	lb ai/a	1	pt/a	4-6"W	C						
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C						
8	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	15.3 a	136 a	0 a	0 a	0 a	0 a
8	IMPACT	2.8	SC	0.0219	lb ai/a	1	fl oz/a	4-6"W	C						
8	ROUNDUP POWERMAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	4-6"W	C						
8	AATREX	4	SC	0.5	lb ai/a	1	pt/a	4-6"W	C						
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C						
9	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	15.4 a	135 a	0 a	0 a	0 a	0 a
9	IMPACT	2.8	SC	0.0219	lb ai/a	1	fl oz/a	4-6"W	C						
9	AATREX	4	SC	0.5	lb ai/a	1	pt/a	4-6"W	C						
9	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	4-6"W	C						
9	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C						
10	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	15.6 a	138 a	0 a	0 a	0 a	0 a
10	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	4-6"W	C						
10	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	4-6"W	C						
10	AATREX	4	SC	0.5	lb ai/a	1	pt/a	4-6"W	C						
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C						
LSD (P=.05)										0.68	47.0	0.0	0.0	0.0	0.0
Replicate F										2.604	5.405	0.000	0.000	0.000	0.000
Replicate Prob(F)										0.1032	0.0145	1.0000	1.0000	1.0000	1.0000
Treatment F										0.625	4.814	0.000	0.000	0.000	0.000
Treatment Prob(F)										0.7609	0.0023	1.0000	1.0000	1.0000	1.0000

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

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Pest Code	SETFA	SETFA	SETFA	SETFA
Crop Code				
Rating Date				
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing	7 DAT	14 DAT	28 DAT	56 DAT
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 c	0 d	0 b
2	BICEP II MAGNUM	5.5	SC	1.44	lb ai/a	2.1	pt/a	PRE	A	99 a	99 ab	98 abc	98 a
3	BICEP II MAGNUM	5.5	SC	1.44	lb ai/a	2.1	pt/a	PRE	A	99 a	99 a	99 ab	97 a
3	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	2-4"W	B				
3	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W	B				
3	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	2-4"W	B				
3	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W	B				
4	BICEP II MAGNUM	5.5	SC	1.44	lb ai/a	2.1	pt/a	PRE	A	99 a	99 a	99 a	98 a
4	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	2-4"W	B				
4	ACCENT Q	54.5	WG			0.45	oz/a	2-4"W	B				
4	ACCENT	75	WG	0.01226	lb ai/a			2-4"W	B				
4	DPX-4145	50	WG	0.00307	lb ai/a			2-4"W	B				
4	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W	B				
4	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	2-4"W	B				
4	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W	B				
5	BICEP II MAGNUM	5.5	SC	1.44	lb ai/a	2.1	pt/a	PRE	A	99 a	99 a	99 ab	98 a
5	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	2-4"W	B				
5	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W	B				
5	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	2-4"W	B				
5	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W	B				
6	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 a	98 b	98 abc	98 a
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C				
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C				
7	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 a	99 a	97 c	97 a
7	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	4-6"W	C				
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C				
7	AATREX	4	SC	0.5	lb ai/a	1	pt/a	4-6"W	C				
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C				
8	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 a	99 a	98 abc	97 a
8	IMPACT	2.8	SC	0.0219	lb ai/a	1	fl oz/a	4-6"W	C				
8	ROUNDUP POWERMAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	4-6"W	C				
8	AATREX	4	SC	0.5	lb ai/a	1	pt/a	4-6"W	C				
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C				
9	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 a	98 b	98 abc	97 a
9	IMPACT	2.8	SC	0.0219	lb ai/a	1	fl oz/a	4-6"W	C				
9	AATREX	4	SC	0.5	lb ai/a	1	pt/a	4-6"W	C				
9	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	4-6"W	C				
9	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C				
10	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 a	99 ab	98 bc	98 a
10	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	4-6"W	C				
10	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	4-6"W	C				
10	AATREX	4	SC	0.5	lb ai/a	1	pt/a	4-6"W	C				
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C				

LSD (P=.05)

0.0 0.6 1.3 2.6

Replicate F

0.000 0.730 1.552 2.058

Replicate Prob(F)

1.0000 0.4958 0.2389 0.1568

Treatment F

0.000 21361.651 5386.683 1201.961

Treatment Prob(F)

1.0000 0.0001 0.0001 0.0001

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

Impact Sequential Programs.

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										XANST	XANST	XANST	XANST	AMBTR	AMBTR	AMBTR	AMBTR
Pest Code										Control	Control	Control	Control	Control	Control	Control	Control
Crop Code										Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date										7 DAT	14 DAT	28 DAT	56 DAT	7 DAT	14 DAT	28 DAT	56 DAT
Rating Data Type																	
Rating Unit																	
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 c	0 c	0 c	0 c	0 b	0 c	0 d	0 c
2	BICEP II MAGNUM	5.5	SC	1.44	lb ai/a	2.1	pt/a	PRE	A	99 a	73 b	64 b	47 b	99 a	93 b	96 c	85 b
3	BICEP II MAGNUM	5.5	SC	1.44	lb ai/a	2.1	pt/a	PRE	A	99 a	98 a	96 a	95 a	99 a	98 a	99 ab	99 a
3	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	2-4"W	B								
3	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W	B								
3	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	2-4"W	B								
3	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W	B								
4	BICEP II MAGNUM	5.5	SC	1.44	lb ai/a	2.1	pt/a	PRE	A	99 a	98 a	96 a	94 a	99 a	99 a	98 ab	98 a
4	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	2-4"W	B								
4	ACCENT Q	54.5	WG			0.45	oz/a	2-4"W	B								
4	ACCENT	75	WG	0.01226	lb ai/a			2-4"W	B								
4	DPX-4145	50	WG	0.00307	lb ai/a			2-4"W	B								
4	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W	B								
4	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	2-4"W	B								
4	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W	B								
5	BICEP II MAGNUM	5.5	SC	1.44	lb ai/a	2.1	pt/a	PRE	A	99 a	98 a	97 a	96 a	99 a	99 a	98 ab	99 a
5	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	2-4"W	B								
5	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W	B								
5	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	2-4"W	B								
5	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W	B								
6	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 b	92 a	85 a	78 ab	99 a	98 a	98 b	98 a
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C								
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C								
7	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 a	95 a	92 a	91 a	99 a	98 a	99 ab	98 a
7	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	4-6"W	C								
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C								
7	AATREX	4	SC	0.5	lb ai/a	1	pt/a	4-6"W	C								
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C								
8	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 a	95 a	94 a	86 a	99 a	99 a	99 a	99 a
8	IMPACT	2.8	SC	0.0219	lb ai/a	1	fl oz/a	4-6"W	C								
8	ROUNDUP POWERMAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	4-6"W	C								
8	AATREX	4	SC	0.5	lb ai/a	1	pt/a	4-6"W	C								
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9	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 a	97 a	94 a	94 a	99 a	99 a	99 a	99 a
9	IMPACT	2.8	SC	0.0219	lb ai/a	1	fl oz/a	4-6"W	C								
9	AATREX	4	SC	0.5	lb ai/a	1	pt/a	4-6"W	C								
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10	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 a	97 a	97 a	97 a	99 a	99 a	99 a	99 a
10	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	4-6"W	C								
10	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	4-6"W	C								
10	AATREX	4	SC	0.5	lb ai/a	1	pt/a	4-6"W	C								
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C								
LSD (P=.05)										0.3	11.3	16.7	32.2	0.0	1.8	1.3	11.7
Replicate F										1.000	0.794	1.048	1.322	0.000	2.554	1.872	1.036
Replicate Prob(F)										0.3874	0.4671	0.3711	0.2912	1.0000	0.1056	0.1825	0.3751
Treatment F										88144.009	64.392	29.034	8.245	0.000	2642.125	5254.101	62.035
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	1.0000	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	ABUTH	ABUTH	ABUTH	ABUTH	AMATA	AMATA	AMATA	AMATA
Crop Code								
Rating Date								
Rating Data Type	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing	7 DAT	14 DAT	28 DAT	56 DAT	7 DAT	14 DAT	28 DAT	56 DAT
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 b	0 b	0 c	0 c
2	BICEP II MAGNUM	5.5	SC	1.44	lb ai/a	2.1	pt/a	PRE	A	99 a	91 c	86 b	92 a	99 a	99 a	93 b	96 ab
3	BICEP II MAGNUM	5.5	SC	1.44	lb ai/a	2.1	pt/a	PRE	A	99 a	99 a	99 a	99 a	99 a	99 a	99 a	98 a
3	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	2-4"W	B								
3	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W	B								
3	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	2-4"W	B								
3	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W	B								
4	BICEP II MAGNUM	5.5	SC	1.44	lb ai/a	2.1	pt/a	PRE	A	99 a	99 a	99 a	98 a	99 a	99 a	99 a	99 a
4	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	2-4"W	B								
4	ACCENT Q	54.5	WG			0.45	oz/a	2-4"W	B								
4	ACCENT	75	WG	0.01226	lb ai/a			2-4"W	B								
4	DPX-4145	50	WG	0.00307	lb ai/a			2-4"W	B								
4	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W	B								
4	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	2-4"W	B								
4	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W	B								
5	BICEP II MAGNUM	5.5	SC	1.44	lb ai/a	2.1	pt/a	PRE	A	99 a	99 a	99 a	98 a	99 a	99 a	99 a	99 a
5	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	2-4"W	B								
5	AATREX	4	SC	0.5	lb ai/a	1	pt/a	2-4"W	B								
5	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	2-4"W	B								
5	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	2-4"W	B								
6	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 a	93 bc	91 ab	97 a	99 a	96 b	90 b	94 b
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C								
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C								
7	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 a	98 ab	95 a	96 a	99 a	99 a	97 a	98 ab
7	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	4-6"W	C								
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	C								
7	AATREX	4	SC	0.5	lb ai/a	1	pt/a	4-6"W	C								
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C								
8	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 a	98 a	93 ab	98 a	99 a	99 a	99 a	98 a
8	IMPACT	2.8	SC	0.0219	lb ai/a	1	fl oz/a	4-6"W	C								
8	ROUNDUP POWERMAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	4-6"W	C								
8	AATREX	4	SC	0.5	lb ai/a	1	pt/a	4-6"W	C								
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C								
9	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 a	98 ab	95 a	98 a	99 a	98 a	98 a	99 a
9	IMPACT	2.8	SC	0.0219	lb ai/a	1	fl oz/a	4-6"W	C								
9	AATREX	4	SC	0.5	lb ai/a	1	pt/a	4-6"W	C								
9	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	4-6"W	C								
9	28% UAN	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C								
10	DUAL II MAGNUM	7.64	EC	0.716	lb ai/a	0.75	pt/a	PRE	A	99 a	94 abc	95 a	98 a	99 a	99 a	98 a	98 a
10	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	4-6"W	C								
10	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	4-6"W	C								
10	AATREX	4	SC	0.5	lb ai/a	1	pt/a	4-6"W	C								
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	C								

LSD (P=.05)

Replicate F	0.000	3.288	0.650	0.923	0.000	1.465	0.122	1.221
Replicate Prob(F)	1.0000	0.0607	0.5340	0.4154	1.0000	0.2573	0.8856	0.3183
Treatment F	0.000	355.031	120.845	197.018	0.000	4584.425	801.279	611.401
Treatment Prob(F)	1.0000	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001

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

Trial Comments

1. Protocol: AMVAC (09-TPZ-H-100).
2. Ratings: CI at 7, 14 + 28 da B+C; Overall burndown at 7 da B+C; WC at 14, 28 + 56 da B+C.
3. Yield if possible.
4. Ratings at 7 days after the 2-4"W and 4-6"W applications were on
5. Harvested 11-14-09, (2) 30 inch rows by 22 ft.