

Impact Sequential Programs.

Project Code: 07-11A-W55 Location: Belleville Research Center  
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA  
 Trial Status: Final Updated: 1-23-08

Objective:

To compare performance of Impact to other postemergence products when used in sequential weed control programs and in tank-mixes with glyphosate for resistance management in corn.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. AMBTR	ragweed, giant	Ambrosia trifida L.
3. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
4. ABUTH	velvetleaf	Abutilon theophrasti Medicus
5. AMATA	waterhemp, common	Amaranthus rudis Sauer
6. XANST	cocklebur, common	Xanthium strumarium L.
7. IPOHE	morningglory, ivyleaf	Ipomoea hederacea (L.) Jacq.

Crop 1: ZEAMX corn, field Variety: DKC 61-73 RR2  
 Planting Method: Seeded Planting Date: 5-22-07  
 Rate: 28000 S/A Depth: 1.5 IN  
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 26 FT Reps: 3  
 Tillage Type: Reduced-Till Study Design: Randomized complete block  
 Previous Crop, Year: GLXMA, 2006  
 Field Prep./Maintenance: N 150 LB/A, P2O5 0 LB/A, K2O 100 LB/A

Soil Name: Weir % OM: 2.3 pH: 6.8 CEC: 11  
 Texture: Silt loam Fert. Level: P1: 97 LB/A, K: 313 LB/A

APPLICATION DESCRIPTION

	A	B	C
Application Date:	5-23-07	6-19-07	6-11-07
Time of Day:	11:30	10:00	11:30
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	2-4"W	3-5"W
Applic. Placement:	BROSIOI	BROFOL	BROFOL
Air Temp., Unit:	82 F	86 F	76 F
% Relative Humidity:	60	40	74
Wind Velocity, Unit:	3-5 MPH	3-5 MPH	0-1 MPH
Dew Presence (Y/N):	N	N	N
Soil Moisture:	NORMAL	NORMAL	NORMAL
% Cloud Cover:	50	0	100

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V7	ZEAMX V4-V5
Height, Unit:	NA NA	24 IN	10-12 IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code:		SETFA	SETFA
Stage(leaves):		2-4	1-2
Height(inches):		1-4	0-1
Density:		Low	Low
Weed 2 Code:		AMBTR	AMBTR
Stage(leaves):		2-8	4-8
Height(inches):		0-6	4-7
Density:		High	High
Weed 3 Code:		AMBEL	AMBEL
Stage(leaves):		4-8	2-6
Height(inches):		1-4	1-3
Density:		Medium	Medium
Weed 4 Code:		ABUTH	ABUTH
Stage(leaves):		3-6	2-4
Height(inches):		2-5	2-4
Density:		Low	Low
Weed 5 Code:		AMATA	AMATA
Stage(leaves):		3-6	2-4
Height(inches):		2-5	2-4
Density:		Low	Low
Weed 6 Code:		XANST	XANST
Stage(leaves):		2-6	4-6
Height(inches):		1-4	2-4
Density:		Low	Low

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<b>Weed 7 Code:</b>	IPOHE	IPOHE
<b>Stage (leaves):</b>	2-5	2-5
<b>Height (inches):</b>	2-4	2-4
<b>Density:</b>	Low	Medium

**APPLICATION EQUIPMENT**

	<b>A</b>	<b>B</b>	<b>C</b>
<b>Appl. Equipment:</b>	CO2 sprayer	CO2 sprayer	CO2 sprayer
<b>Operating Pressure:</b>	40 PSI	40 PSI	40 PSI
<b>Nozzle Type:</b>	Flat fan	Flat fan	Flat fan
<b>Nozzle Size:</b>	XR 8002	XR 8002	XR 8002
<b>Boom Length, Unit:</b>	7.5 FT	7.5 FT	7.5 FT
<b>Spray Volume, Unit:</b>	15 GPA	15 GPA	15 GPA

**NOTES:**

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Weed Code  
 Crop Code  
 Rating Data Type  
 Rating Unit  
 Rating Date  
 Trt-Eval Interval

ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Moisture	Yield	Injury	Injury	Injury	Injury
Percent	bu/A	Percent	Percent	Percent	Percent
10-2-07	10-2-07				
		07 DAPO	14 DAPO	28 DAPO	56 DAPO

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	NONTREATED									14.3 ab	72 c	0 a	0 a	0 a	0 a
2	BICEP II MAGNUM	5.5 L		1.44	lb ai/a	2.1	pt/a	PRE	A	14.3 ab	205 ab	0 a	0 a	0 a	0 a
3	BICEP II MAGNUM	5.5 L		1.44	lb ai/a	2.1	pt/a	PRE	A	13.9 b	198 ab	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	90 WG		0.5	lb ai/a	0.556	lb/a	2-4"	W B						
3	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	2-4"	W B						
3	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	2-4"	W B						
4	BICEP II MAGNUM	5.5 L		1.44	lb ai/a	2.1	pt/a	PRE	A	14.4 ab	204 ab	0 a	0 a	0 a	0 a
4	CALLISTO	4 SC		0.094	lb ai/a	3	fl oz/a	2-4"	W B						
4	AATREX	90 WG		0.5	lb ai/a	0.556	lb/a	2-4"	W B						
4	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	2-4"	W B						
4	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	2-4"	W B						
5	BICEP II MAGNUM	5.5 L		1.44	lb ai/a	2.1	pt/a	PRE	A	14.3 ab	218 a	0 a	0 a	0 a	0 a
5	LAUDIS	3.5 SC		0.0547	lb ai/a	2	fl oz/a	2-4"	W B						
5	AATREX	90 WG		0.5	lb ai/a	0.556	lb/a	2-4"	W B						
5	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	2-4"	W B						
5	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	2-4"	W B						
6	BICEP II MAGNUM	5.5 L		1.44	lb ai/a	2.1	pt/a	PRE	A	14.4 ab	200 ab	0 a	0 a	0 a	0 a
6	IMPACT	2.8 SC		0.011	lb ai/a	0.5	fl oz/a	2-4"	W B						
6	STEADFAST	75 WG		0.035	lb ai/a	0.75	oz/a	2-4"	W B						
6	AATREX	90 WG		0.5	lb ai/a	0.556	lb/a	2-4"	W B						
6	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	2-4"	W B						
6	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	2-4"	W B						
7	DUAL II MAGNUM	7.64 EC		0.72	lb ai/a	0.75	pt/a	PRE	A	14.9 a	202 ab	0 a	0 a	0 a	0 a
7	IMPACT	2.8 SC		0.0164	lb ai/a	0.75	fl oz/a	3-5"	W C						
7	AATREX	90 WG		0.75	lb ai/a	0.83	lb/a	3-5"	W C						
7	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	3-5"	W C						
7	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	3-5"	W C						
8	DUAL II MAGNUM	7.64 EC		0.72	lb ai/a	0.75	pt/a	PRE	A	14.5 ab	200 ab	0 a	0 a	0 a	0 a
8	IMPACT	2.8 SC		0.011	lb ai/a	0.5	fl oz/a	3-5"	W C						
8	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	3-5"	W C						
8	N-PAK AMS	100 LIQ		2.5	% v/v	2.5	% v/v	3-5"	W C						
9	DUAL II MAGNUM	7.64 EC		0.72	lb ai/a	0.75	pt/a	PRE	A	14.3 ab	198 ab	0 a	0 a	0 a	0 a
9	IMPACT	2.8 SC		0.011	lb ai/a	0.5	fl oz/a	3-5"	W C						
9	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	3-5"	W C						
9	AATREX	90 WG		0.75	lb ai/a	0.83	lb/a	3-5"	W C						
9	N-PAK AMS	100 LIQ		2.5	% v/v	2.5	% v/v	3-5"	W C						
10	DUAL II MAGNUM	7.64 EC		0.72	lb ai/a	0.75	pt/a	PRE	A	14.6 ab	185 b	0 a	0 a	0 a	0 a
10	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	3-5"	W C						
10	N-PAK AMS	100 LIQ		2.5	% v/v	2.5	% v/v	3-5"	W C						
LSD (P=.05)										1.00	26.3	0.0	0.0	0.0	0.0
Replicate F										0.303	2.210	0.000	0.000	0.000	0.000
Replicate Prob(F)										0.7421	0.1386	1.0000	1.0000	1.0000	1.0000
Treatment F										0.624	22.004	0.000	0.000	0.000	0.000
Treatment Prob(F)										0.7619	0.0001	1.0000	1.0000	1.0000	1.0000

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

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Weed Code	SETFA	SETFA	SETFA	SETFA	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code	Control	Control	Control	Control	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	07 DAPO	14 DAPO	28 DAPO	56 DAPO	07 DAPO	14 DAPO	28 DAPO	56 DAPO
Rating Date								
Trt-Eval Interval								

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	07 DAPO	14 DAPO	28 DAPO	56 DAPO	07 DAPO	14 DAPO	28 DAPO	56 DAPO
1	NONTREATED									0 c	0 c	0 e	0 d	0 d	0 c	0 c	0 d
2	BICEP II MAGNUM	5.5 L		1.44 lb ai/a	2.1 pt/a	PRE	A			91 b	90 b	85 d	82 c	83 c	82 b	30 b	33 c
3	BICEP II MAGNUM	5.5 L		1.44 lb ai/a	2.1 pt/a	PRE	A			98 a	99 a	93 b	98 a	96 ab	99 a	99 a	95 ab
3	IMPACT	2.8 SC		0.0164 lb ai/a	0.75 fl oz/a	2-4"W	B										
3	AATREX	90 WG		0.5 lb ai/a	0.556 lb/a	2-4"W	B										
3	DESTINY MSO	100 LIQ		1.0 % v/v	1 % v/v	2-4"W	B										
3	28% UAN	100 LIQ		2.5 % v/v	2.5 % v/v	2-4"W	B										
4	BICEP II MAGNUM	5.5 L		1.44 lb ai/a	2.1 pt/a	PRE	A			89 b	96 a	89 c	90 b	96 ab	99 a	99 a	99 a
4	CALLISTO	4 SC		0.094 lb ai/a	3 fl oz/a	2-4"W	B										
4	AATREX	90 WG		0.5 lb ai/a	0.556 lb/a	2-4"W	B										
4	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v	2-4"W	B										
4	28% UAN	100 LIQ		2.5 % v/v	2.5 % v/v	2-4"W	B										
5	BICEP II MAGNUM	5.5 L		1.44 lb ai/a	2.1 pt/a	PRE	A			96 a	96 a	98 a	98 a	99 a	99 a	99 a	96 ab
5	LAUDIS	3.5 SC		0.0547 lb ai/a	2 fl oz/a	2-4"W	B										
5	AATREX	90 WG		0.5 lb ai/a	0.556 lb/a	2-4"W	B										
5	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v	2-4"W	B										
5	28% UAN	100 LIQ		2.5 % v/v	2.5 % v/v	2-4"W	B										
6	BICEP II MAGNUM	5.5 L		1.44 lb ai/a	2.1 pt/a	PRE	A			96 a	99 a	93 b	99 a	99 a	99 a	98 a	95 ab
6	IMPACT	2.8 SC		0.011 lb ai/a	0.5 fl oz/a	2-4"W	B										
6	STEADFAST	75 WG		0.035 lb ai/a	0.75 oz/a	2-4"W	B										
6	AATREX	90 WG		0.5 lb ai/a	0.556 lb/a	2-4"W	B										
6	DESTINY MSO	100 LIQ		1.0 % v/v	1 % v/v	2-4"W	B										
6	28% UAN	100 LIQ		2.5 % v/v	2.5 % v/v	2-4"W	B										
7	DUAL II MAGNUM	7.64 EC		0.72 lb ai/a	0.75 pt/a	PRE	A			98 a	99 a	98 a	98 a	99 a	99 a	99 a	99 a
7	IMPACT	2.8 SC		0.0164 lb ai/a	0.75 fl oz/a	3-5"W	C										
7	AATREX	90 WG		0.75 lb ai/a	0.83 lb/a	3-5"W	C										
7	DESTINY MSO	100 LIQ		1.0 % v/v	1 % v/v	3-5"W	C										
7	28% UAN	100 LIQ		2.5 % v/v	2.5 % v/v	3-5"W	C										
8	DUAL II MAGNUM	7.64 EC		0.72 lb ai/a	0.75 pt/a	PRE	A			99 a	99 a	99 a	96 a	99 a	97 a	96 a	90 b
8	IMPACT	2.8 SC		0.011 lb ai/a	0.5 fl oz/a	3-5"W	C										
8	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a	22 fl oz/a	3-5"W	C										
8	N-PAK AMS	100 LIQ		2.5 % v/v	2.5 % v/v	3-5"W	C										
9	DUAL II MAGNUM	7.64 EC		0.72 lb ai/a	0.75 pt/a	PRE	A			99 a	99 a	98 a	99 a	99 a	99 a	99 a	99 a
9	IMPACT	2.8 SC		0.011 lb ai/a	0.5 fl oz/a	3-5"W	C										
9	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a	22 fl oz/a	3-5"W	C										
9	AATREX	90 WG		0.75 lb ai/a	0.83 lb/a	3-5"W	C										
9	N-PAK AMS	100 LIQ		2.5 % v/v	2.5 % v/v	3-5"W	C										
10	DUAL II MAGNUM	7.64 EC		0.72 lb ai/a	0.75 pt/a	PRE	A			99 a	99 a	98 a	96 a	93 b	98 a	97 a	93 ab
10	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a	22 fl oz/a	3-5"W	C										
10	N-PAK AMS	100 LIQ		2.5 % v/v	2.5 % v/v	3-5"W	C										
LSD (P=.05)										4.7	4.2	3.9	5.0	3.8	2.3	5.8	8.9
Replicate F										0.165	0.399	1.437	0.727	0.517	0.795	0.752	0.893
Replicate Prob(F)										0.8488	0.6768	0.2637	0.4972	0.6048	0.4670	0.4857	0.4268
Treatment F										375.838	470.279	531.629	332.742	586.832	1603.222	338.618	131.317
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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

Impact Sequential Programs.

Project Code: 07-11A-W55 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code	AMBEL	AMBEL	AMBEL	AMBEL	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code								
Rating Data Type	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date								
Trt-Eval Interval	07 DAPO	14 DAPO	28 DAPO	56 DAPO	07 DAPO	14 DAPO	28 DAPO	56 DAPO

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	07 DAPO	14 DAPO	28 DAPO	56 DAPO				
1	NONTREATED									0 c	0 d	0 c	0 c				
2	BICEP II MAGNUM	5.5 L		1.44 lb ai/a		2.1 pt/a		PRE A		92 b	92 c	84 b	88 b				
3	BICEP II MAGNUM	5.5 L		1.44 lb ai/a		2.1 pt/a		PRE A		99 a	99 a	99 a	99 a				
3	IMPACT	2.8 SC		0.0164 lb ai/a		0.75 fl oz/a		2-4"W B									
3	AATREX	90 WG		0.5 lb ai/a		0.556 lb/a		2-4"W B									
3	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		2-4"W B									
3	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		2-4"W B									
4	BICEP II MAGNUM	5.5 L		1.44 lb ai/a		2.1 pt/a		PRE A		99 a	99 a	99 a	99 a				
4	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		2-4"W B									
4	AATREX	90 WG		0.5 lb ai/a		0.556 lb/a		2-4"W B									
4	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		2-4"W B									
4	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		2-4"W B									
5	BICEP II MAGNUM	5.5 L		1.44 lb ai/a		2.1 pt/a		PRE A		99 a	99 a	99 a	99 a				
5	LAUDIS	3.5 SC		0.0547 lb ai/a		2 fl oz/a		2-4"W B									
5	AATREX	90 WG		0.5 lb ai/a		0.556 lb/a		2-4"W B									
5	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		2-4"W B									
5	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		2-4"W B									
6	BICEP II MAGNUM	5.5 L		1.44 lb ai/a		2.1 pt/a		PRE A		99 a	99 a	99 a	99 a				
6	IMPACT	2.8 SC		0.011 lb ai/a		0.5 fl oz/a		2-4"W B									
6	STEADFAST	75 WG		0.035 lb ai/a		0.75 oz/a		2-4"W B									
6	AATREX	90 WG		0.5 lb ai/a		0.556 lb/a		2-4"W B									
6	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		2-4"W B									
6	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		2-4"W B									
7	DUAL II MAGNUM	7.64 EC		0.72 lb ai/a		0.75 pt/a		PRE A		99 a	99 a	99 a	99 a				
7	IMPACT	2.8 SC		0.0164 lb ai/a		0.75 fl oz/a		3-5"W C									
7	AATREX	90 WG		0.75 lb ai/a		0.83 lb/a		3-5"W C									
7	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		3-5"W C									
7	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W C									
8	DUAL II MAGNUM	7.64 EC		0.72 lb ai/a		0.75 pt/a		PRE A		99 a	99 a	99 a	99 a				
8	IMPACT	2.8 SC		0.011 lb ai/a		0.5 fl oz/a		3-5"W C					98 ab				
8	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		3-5"W C									
8	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W C									
9	DUAL II MAGNUM	7.64 EC		0.72 lb ai/a		0.75 pt/a		PRE A		99 a	99 a	99 a	99 a				
9	IMPACT	2.8 SC		0.011 lb ai/a		0.5 fl oz/a		3-5"W C									
9	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		3-5"W C									
9	AATREX	90 WG		0.75 lb ai/a		0.83 lb/a		3-5"W C									
9	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W C									
10	DUAL II MAGNUM	7.64 EC		0.72 lb ai/a		0.75 pt/a		PRE A		98 a	96 b	98 a	98 a				
10	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		3-5"W C									
10	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W C					96 b				
LSD (P=.05)										2.1	2.1	2.1	4.4	2.0	3.0	2.0	2.2
Replicate F										0.022	0.486	0.556	0.555	1.488	2.075	0.946	2.739
Replicate Prob(F)										0.9783	0.6230	0.5833	0.5834	0.2524	0.1545	0.4067	0.0915
Treatment F										1913.841	2006.789	1935.911	434.464	2123.472	929.921	2103.839	1780.707
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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

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 Investigator: Bryan Young

Weed Code	AMATA	AMATA	AMATA	AMATA	XANST	XANST	XANST	XANST
Crop Code								
Rating Data Type	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date								
Trt-Eval Interval	07 DAPO	14 DAPO	28 DAPO	56 DAPO	07 DAPO	14 DAPO	28 DAPO	56 DAPO

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	07 DAPO	14 DAPO	28 DAPO	56 DAPO				
1	NONTREATED									0 c	0 c	0 c	0 c				
2	BICEP II MAGNUM	5.5 L		1.44	lb ai/a	2.1	pt/a	PRE	A	98 b	97 b	93 b	93 b				
3	BICEP II MAGNUM	5.5 L		1.44	lb ai/a	2.1	pt/a	PRE	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	90 WG		0.5	lb ai/a	0.556	lb/a	2-4"	W B								
3	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	2-4"	W B								
3	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	2-4"	W B								
4	BICEP II MAGNUM	5.5 L		1.44	lb ai/a	2.1	pt/a	PRE	A	99 a	99 a	99 a	99 a				
4	CALLISTO	4 SC		0.094	lb ai/a	3	fl oz/a	2-4"	W B								
4	AATREX	90 WG		0.5	lb ai/a	0.556	lb/a	2-4"	W B								
4	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	2-4"	W B								
4	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	2-4"	W B								
5	BICEP II MAGNUM	5.5 L		1.44	lb ai/a	2.1	pt/a	PRE	A	99 a	99 a	99 a	99 a				
5	LAUDIS	3.5 SC		0.0547	lb ai/a	2	fl oz/a	2-4"	W B								
5	AATREX	90 WG		0.5	lb ai/a	0.556	lb/a	2-4"	W B								
5	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	2-4"	W B								
5	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	2-4"	W B								
6	BICEP II MAGNUM	5.5 L		1.44	lb ai/a	2.1	pt/a	PRE	A	99 a	99 a	99 a	99 a				
6	IMPACT	2.8 SC		0.011	lb ai/a	0.5	fl oz/a	2-4"	W B								
6	STEADFAST	75 WG		0.035	lb ai/a	0.75	oz/a	2-4"	W B								
6	AATREX	90 WG		0.5	lb ai/a	0.556	lb/a	2-4"	W B								
6	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	2-4"	W B								
6	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	2-4"	W B								
7	DUAL II MAGNUM	7.64 EC		0.72	lb ai/a	0.75	pt/a	PRE	A	99 a	99 a	99 a	99 a				
7	IMPACT	2.8 SC		0.0164	lb ai/a	0.75	fl oz/a	3-5"	W C								
7	AATREX	90 WG		0.75	lb ai/a	0.83	lb/a	3-5"	W C								
7	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	3-5"	W C								
7	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	3-5"	W C								
8	DUAL II MAGNUM	7.64 EC		0.72	lb ai/a	0.75	pt/a	PRE	A	99 a	99 a	99 a	98 ab				
8	IMPACT	2.8 SC		0.011	lb ai/a	0.5	fl oz/a	3-5"	W C								
8	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	3-5"	W C								
8	N-PAK AMS	100 LIQ		2.5	% v/v	2.5	% v/v	3-5"	W C								
9	DUAL II MAGNUM	7.64 EC		0.72	lb ai/a	0.75	pt/a	PRE	A	99 a	99 a	99 a	99 a				
9	IMPACT	2.8 SC		0.011	lb ai/a	0.5	fl oz/a	3-5"	W C								
9	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	3-5"	W C								
9	AATREX	90 WG		0.75	lb ai/a	0.83	lb/a	3-5"	W C								
9	N-PAK AMS	100 LIQ		2.5	% v/v	2.5	% v/v	3-5"	W C								
10	DUAL II MAGNUM	7.64 EC		0.72	lb ai/a	0.75	pt/a	PRE	A	99 a	99 a	99 a	99 a				
10	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	3-5"	W C				98 a				
10	N-PAK AMS	100 LIQ		2.5	% v/v	2.5	% v/v	3-5"	W C				96 a				
LSD (P=.05)										0.6	1.1	1.6	1.9	1.7	1.3	2.9	3.5
Replicate F										1.000	1.000	1.000	2.216	1.588	1.000	1.791	0.725
Replicate Prob(F)										0.3874	0.3874	0.3874	0.1379	0.2316	0.3874	0.1953	0.4977
Treatment F										22020.252	7320.751	3495.040	2383.028	2894.886	5497.563	1030.245	688.818
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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

Impact Sequential Programs.

Project Code: 07-11A-W55 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code		IPOHE	IPOHE	IPOHE	IPOHE
Crop Code					
Rating Data Type		Control	Control	Control	Control
Rating Unit		Percent	Percent	Percent	Percent
Rating Date					
Trt-Eval Interval		07 DAPO	14 DAPO	28 DAPO	56 DAPO

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	NONTREATED									0 e	0 d	0 e	0 d
2	BICEP II MAGNUM	5.5 L		1.44 lb ai/a		2.1 pt/a		PRE	A	95 bc	87 c	75 d	72 c
3	BICEP II MAGNUM	5.5 L		1.44 lb ai/a		2.1 pt/a		PRE	A	98 ab	93 b	95 a	92 a
3	IMPACT	2.8 SC		0.0164 lb ai/a		0.75 fl oz/a		2-4"W	B				
3	AATREX	90 WG		0.5 lb ai/a		0.556 lb/a		2-4"W	B				
3	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		2-4"W	B				
3	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		2-4"W	B				
4	BICEP II MAGNUM	5.5 L		1.44 lb ai/a		2.1 pt/a		PRE	A	96 abc	93 b	95 a	92 a
4	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		2-4"W	B				
4	AATREX	90 WG		0.5 lb ai/a		0.556 lb/a		2-4"W	B				
4	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		2-4"W	B				
4	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		2-4"W	B				
5	BICEP II MAGNUM	5.5 L		1.44 lb ai/a		2.1 pt/a		PRE	A	99 a	95 ab	93 ab	92 a
5	LAUDIS	3.5 SC		0.0547 lb ai/a		2 fl oz/a		2-4"W	B				
5	AATREX	90 WG		0.5 lb ai/a		0.556 lb/a		2-4"W	B				
5	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		2-4"W	B				
5	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		2-4"W	B				
6	BICEP II MAGNUM	5.5 L		1.44 lb ai/a		2.1 pt/a		PRE	A	96 abc	92 b	90 abc	92 a
6	IMPACT	2.8 SC		0.011 lb ai/a		0.5 fl oz/a		2-4"W	B				
6	STEADFAST	75 WG		0.035 lb ai/a		0.75 oz/a		2-4"W	B				
6	AATREX	90 WG		0.5 lb ai/a		0.556 lb/a		2-4"W	B				
6	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		2-4"W	B				
6	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		2-4"W	B				
7	DUAL II MAGNUM	7.64 EC		0.72 lb ai/a		0.75 pt/a		PRE	A	94 c	94 b	92 abc	88 ab
7	IMPACT	2.8 SC		0.0164 lb ai/a		0.75 fl oz/a		3-5"W	C				
7	AATREX	90 WG		0.75 lb ai/a		0.83 lb/a		3-5"W	C				
7	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C				
7	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C				
8	DUAL II MAGNUM	7.64 EC		0.72 lb ai/a		0.75 pt/a		PRE	A	93 c	96 ab	86 c	88 ab
8	IMPACT	2.8 SC		0.011 lb ai/a		0.5 fl oz/a		3-5"W	C				
8	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		3-5"W	C				
8	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C				
9	DUAL II MAGNUM	7.64 EC		0.72 lb ai/a		0.75 pt/a		PRE	A	99 a	98 a	95 a	93 a
9	IMPACT	2.8 SC		0.011 lb ai/a		0.5 fl oz/a		3-5"W	C				
9	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		3-5"W	C				
9	AATREX	90 WG		0.75 lb ai/a		0.83 lb/a		3-5"W	C				
9	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C				
10	DUAL II MAGNUM	7.64 EC		0.72 lb ai/a		0.75 pt/a		PRE	A	89 d	93 b	87 bc	85 b
10	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		3-5"W	C				
10	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C				

LSD (P=.05)	3.4	4.0	6.3	6.5
Replicate F	1.254	0.366	0.317	1.023
Replicate Prob(F)	0.3091	0.6984	0.7321	0.3794
Treatment F	702.664	477.161	189.848	171.940
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

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

Trial Comments

1. Protocol: AMVAC (TPZ-H-100).
2. Ratings: CI/WC 7, 14, 28 + 56 DA "POST".
3. If target weeds include rapid growth species like giant ragweed target 4-8" weed size.
4. Yield.
5. DAPO = Days after POST application, either the 2-4"W (B) or the 3-5"W (C) application.
6. Ratings at 7 DAPO were on 6-18-07 and 6-26-07 for the 2-4"W (B) and 3-5"W (C) applications, respectively.  
 Ratings at 14 DAPO were on 6-25-07 and 7-3-07 for the 2-4"W (B) and 3-5"W (C) applications, respectively.  
 Ratings at 28 DAPO were on 7-9-07 and 7-17-07 for the 2-4"W (B) and 3-5"W (C) applications, respectively.  
 Ratings at 56 DAPO were on 8-6-07 and 8-14-07 for the 2-4"W (B) and 3-5"W (C) applications, respectively.
7. Harvested 10-2-07, (2) 30 inch rows by 23 ft.