

Tank-Mixtures of Accent and Atrazine with AE 0172747 - Belleville.

Project Code: 06-2C-ME90 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: 11-13-06**Objective:**

Evaluate the benefit of Accent and atrazine tank-mixtures with AE 0172747 for grass efficacy, specifically fall panicum.

Weed Code	Common Name	Scientific Name
1. PANDI	panicum, fall	Panicum dichotomiflorum Michx.
2. AMATA	waterhemp, common	Amaranthus rudis Sauer
3. ABUTH	velvetleaf	Abutilon theophrasti Medicus

Crop 1:	ZEAMX corn, field	Variety:	33K44
Planting Method:	Seeded	Planting Date:	5-23-06
Rate:	28000 S/A	Depth:	1.0 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	28 FT	Reps:	3
Tillage Type:	Reduced-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	GLXMA, 2005				
Field Prep./Maintenance:	N 150 LB/A, P205 0 LB/A, K20 100 LB/A				

Soil Name:	Weir	% OM:	1.6	pH:	6.4	CEC:	8
Texture:	Silt loam	Fert. Level:	P1: 92 LB/A, K: 365 LB/A				

APPLICATION DESCRIPTION

APPLICATION DESCRIPTION		A
Application Date:	6-12-06	
Time of Day:	10:00	
Application Method:	Spray	
Application Timing:	4" GRASS	
Applic. Placement:	BROFOL	
Air Temp., Unit:	70 F	
% Relative Humidity:	78	
Wind Velocity, Unit:	5 MPH	
Soil Moisture:	BELNOR	
% Cloud Cover:	70	

CROP STAGE AT EACH APPLICATION

CROP STAGE AT EACH APPLICATION		A
Crop 1 Code, Stage:	ZEAMX V5	
Height, Unit:	12-14 IN	

WEED STAGE AT EACH APPLICATION

WEED STAGE AT EACH APPLICATION		A
Weed 1 Code:	PANDI	
Stage (leaves):	2-6	
Height (inches):	1-5	
Density:	High	
Weed 2 Code:	AMATA	
Stage (leaves):	3-5	
Height (inches):	3-6	
Density:	High	
Weed 3 Code:	ABUTH	
Stage (leaves):	3-5	
Height (inches):	3-6	
Density:	High	

APPLICATION EQUIPMENT

APPLICATION EQUIPMENT		A
Appl. Equipment:	CO2 sprayer	
Operating Pressure:	40 PSI	
Nozzle Type:	Flat fan	
Nozzle Size:	8002	
Boom Length, Unit:	7.5 FT	
Spray Volume, Unit:	20 GPA	

NOTES:

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Weed Code										PANDI	PANDI	AMATA	AMATA	ABUTH	ABUTH
Crop Code										ZEAMX	ZEAMX				
Rating Data Type										Injury	Injury	Control	Control	Control	Control
Rating Unit										Percent	Percent	Percent	Percent	Percent	Percent
Rating Date										6-26-06	7-10-06	6-26-06	7-10-06	6-26-06	7-10-06
Trt-Eval Interval										14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	NONTREATED									0	0	0	0	0	0
2	AE 0172747	5.25 SC		0.123	lb ai/a	3	fl oz/a	4"	GRASS A	0	0	5	0	99	99
2	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	4"	GRASS A						
2	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	4"	GRASS A						
3	AE 0172747	5.25 SC		0.123	lb ai/a	3	fl oz/a	4"	GRASS A	0	0	7	0	99	99
3	AATREX	90 WG		0.5	lb ai/a	8.9	oz/a	4"	GRASS A						
3	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	4"	GRASS A						
3	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	4"	GRASS A						
4	AE 0172747	5.25 SC		0.123	lb ai/a	3	fl oz/a	4"	GRASS A	0	0	73	82	99	99
4	ACCENT	75 WG		0.0117	lb ai/a	0.25	oz/a	4"	GRASS A						
4	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	4"	GRASS A						
4	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	4"	GRASS A						
5	AE 0172747	5.25 SC		0.123	lb ai/a	3	fl oz/a	4"	GRASS A	0	0	79	90	99	99
5	ACCENT	75 WG		0.0117	lb ai/a	0.25	oz/a	4"	GRASS A						
5	AATREX	90 WG		0.5	lb ai/a	8.9	oz/a	4"	GRASS A						
5	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	4"	GRASS A						
5	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	4"	GRASS A						
6	AE 0172747	5.25 SC		0.123	lb ai/a	3	fl oz/a	4"	GRASS A	0	0	5	0	99	99
6	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	4"	GRASS A						
6	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	4"	GRASS A						
7	AE 0172747	5.25 SC		0.123	lb ai/a	3	fl oz/a	4"	GRASS A	0	0	5	0	99	99
7	AATREX	90 WG		0.5	lb ai/a	8.9	oz/a	4"	GRASS A						
7	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	4"	GRASS A						
7	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	4"	GRASS A						
8	AE 0172747	5.25 SC		0.123	lb ai/a	3	fl oz/a	4"	GRASS A	0	0	78	90	99	96
8	ACCENT	75 WG		0.0117	lb ai/a	0.25	oz/a	4"	GRASS A						
8	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	4"	GRASS A						
8	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	4"	GRASS A						
9	AE 0172747	5.25 SC		0.123	lb ai/a	3	fl oz/a	4"	GRASS A	0	0	76	87	99	99
9	ACCENT	75 WG		0.0117	lb ai/a	0.25	oz/a	4"	GRASS A						
9	AATREX	90 WG		0.5	lb ai/a	8.9	oz/a	4"	GRASS A						
9	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	4"	GRASS A						
9	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	4"	GRASS A						
10	AE 0172747	5.25 SC		0.082	lb ai/a	2	fl oz/a	4"	GRASS A	0	0	2	0	99	99
10	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	4"	GRASS A						
10	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	4"	GRASS A						
11	AE 0172747	5.25 SC		0.082	lb ai/a	2	fl oz/a	4"	GRASS A	0	0	0	0	99	99
11	AATREX	90 WG		0.5	lb ai/a	8.9	oz/a	4"	GRASS A						
11	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	4"	GRASS A						
11	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	4"	GRASS A						
12	AE 0172747	5.25 SC		0.082	lb ai/a	2	fl oz/a	4"	GRASS A	0	0	75	91	99	99
12	ACCENT	75 WG		0.0117	lb ai/a	0.25	oz/a	4"	GRASS A						
12	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	4"	GRASS A						
12	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	4"	GRASS A						
13	AE 0172747	5.25 SC		0.082	lb ai/a	2	fl oz/a	4"	GRASS A	0	0	72	88	99	99
13	ACCENT	75 WG		0.0117	lb ai/a	0.25	oz/a	4"	GRASS A						
13	AATREX	90 WG		0.5	lb ai/a	8.9	oz/a	4"	GRASS A						
13	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	4"	GRASS A						
13	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	4"	GRASS A						
14	AE 0172747	5.25 SC		0.082	lb ai/a	2	fl oz/a	4"	GRASS A	0	0	5	0	99	99
14	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	4"	GRASS A						
14	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	4"	GRASS A						
15	AE 0172747	5.25 SC		0.082	lb ai/a	2	fl oz/a	4"	GRASS A	0	0	5	0	99	99
15	AATREX	90 WG		0.5	lb ai/a	8.9	oz/a	4"	GRASS A						
15	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	4"	GRASS A						
15	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	4"	GRASS A						

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	ZEAMX Injury Percent	ZEAMX Injury Percent	PANDI Control Percent	PANDI Control Percent	AMATA Control Percent	AMATA Control Percent	ABUTH Control Percent	ABUTH Control Percent				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	14 DA-A	28 DA-A	14 DA-A	28 DA-A				
16	AE 0172747	5.25	SC	0.082	lb ai/a	2	fl oz/a	4"GRASS	A	0	0	78	93				
16	ACCENT	75	WG	0.0117	lb ai/a	0.25	oz/a	4"GRASS	A			99	99				
16	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"GRASS	A			99	99				
16	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"GRASS	A			99	99				
17	AE 0172747	5.25	SC	0.082	lb ai/a	2	fl oz/a	4"GRASS	A	0	0	74	88				
17	ACCENT	75	WG	0.0117	lb ai/a	0.25	oz/a	4"GRASS	A			99	99				
17	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	4"GRASS	A			99	99				
17	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"GRASS	A			99	99				
17	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"GRASS	A			99	99				
LSD (P=.05)										0.0	0.0	3.5	4.4	0.0	2.1	0.0	2.1
Replicate F										0.000	0.000	0.175	1.317	0.000	1.000	0.000	1.000
Replicate Prob(F)										1.0000	1.0000	0.8402	0.2821	1.0000	0.3791	1.0000	0.3791
Treatment F										0.000	0.000	943.284	894.790	0.000	1085.875	0.000	1085.875
Treatment Prob(F)										1.0000	1.0000	0.0001	0.0001	1.0000	0.0001	1.0000	0.0001

Trial Comments

1. Protocol: Bayer, Waddington.
2. Ratings: CI/WC 14 + 28 DAT. Other evaluations may be necessary.
3. Target fall panicum data.
4. DA-A = Days after 4"GRASS application.