

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

Project Code: 06-ARC-12C Location: Agronomy Research Center
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Carbondale IL 62901 USA
Trial Status: Final Updated: 3-5-07**Objective:**

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

Weed Code	Common Name	Scientific Name
1. PANDI	panicum, fall	Panicum dichotomiflorum Michx.
2. BRAPP	signalgrass, broadleaf	Brachiaria platyphylla (Griseb.) Nash

Crop 1:	ZEAMX corn, field	Variety:	P31G96 RR/HX
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:	25 FT	Reps:	3
Tillage Type:	Reduced-Till	Study Design:	Randomized complete block		
Field Prep./Maintenance:	N 158 LB/A, P205 46 LB/A, K20 60 LB/A				

Soil Name:	Weir	% OM:	1.6	pH:	6.1	CEC:	8.1
Texture:	Silt loam	Fert. Level:	P1: 94 LB/A, K: 317 LB/A				

APPLICATION DESCRIPTION

A

Application Date:	6-17-06
Time of Day:	9:30
Application Method:	Spray
Application Timing:	4"GRASS
Applic. Placement:	BROFOL
Air Temp., Unit:	84 F
% Relative Humidity:	76
Wind Velocity, Unit:	4 MPH
Dew Presence (Y/N):	N
Soil Moisture:	BELNOR
% Cloud Cover:	40

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage:	ZEAMX V4
Height, Unit:	10 IN

WEED STAGE AT EACH APPLICATION

A

Weed 1 Code:	PANDI
Stage (leaves):	3-7
Height (inches):	2-5
Density:	High
Weed 2 Code:	BRAPL
Stage (leaves):	4-10
Height (inches):	4-3
Density:	High

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

		PANDI	PANDI	BRAPP	BRAPP
ZEAMX	ZEAMX	Control	Control	Control	Control
Injury	Injury	Percent	Percent	Percent	Percent
7-1-06	7-14-06	7-1-06	7-14-06	7-1-06	7-14-06
14 DA-A	27 DA-A	14 DA-A	27 DA-A	14 DA-A	27 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	2	0	88	93
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	0	0	89	93
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	74	81	92	94
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	83	87	96	96
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	2	0	95	97
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	0	0	97	96
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	85	89	96	91
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	73	81	95	94
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	0	0	95	96
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	9	2	97	95
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	83	89	96	97
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	74	82	94	93
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	7	0	93	93
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	0	0	97	95
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	BRAPP Control Percent	BRAPP Control Percent
						7-1-06	7-14-06	7-1-06	7-14-06	7-1-06	7-14-06
						14 DA-A	27 DA-A	14 DA-A	27 DA-A	14 DA-A	27 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
16	AE 0172747	5.25	SC	0.082	lb ai/a	2	fl oz/a	4"GRASS	A	0	0	88	93	96	96
16	ACCENT	75	WG	0.0117	lb ai/a	0.25	oz/a	4"GRASS	A						
16	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"GRASS	A						
16	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"GRASS	A						
17	AE 0172747	5.25	SC	0.082	lb ai/a	2	fl oz/a	4"GRASS	A	0	0	63	87	96	97
17	ACCENT	75	WG	0.0117	lb ai/a	0.25	oz/a	4"GRASS	A						
17	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	4"GRASS	A						
17	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"GRASS	A						
17	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"GRASS	A						
LSD (P=.05)										0.0	0.0	5.6	5.1	3.1	2.9
Replicate F										0.000	0.000	0.252	0.901	1.603	2.242
Replicate Prob(F)										1.0000	1.0000	0.7785	0.4161	0.2171	0.1227
Treatment F										0.000	0.000	407.791	622.005	448.264	519.471
Treatment Prob(F)										1.0000	1.0000	0.0001	0.0001	0.0001	0.0001

Trial Comments

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