

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

Project Code: 06-2C-MME100 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 Option and Accent 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
4.	XANST cocklebur, common	Xanthium strumarium L.

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

A

Application Date:	6-12-06
Time of Day:	14:00
Application Method:	Spray
Application Timing:	4"GRASS
Applic. Placement:	BROFOL
Air Temp., Unit:	75 F
% Relative Humidity:	50
Wind Velocity, Unit:	5 MPH
Soil Moisture:	NORMAL
% Cloud Cover:	15

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage:	ZEAMX V5
Height, Unit:	12-14 IN

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
Weed 4 Code:	XANST
Stage (leaves):	4-6
Height (inches):	4-5
Density:	Low

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:

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

Project Code: 06-2C-MME100 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code		Crop Code		Rating Data Type		Rating Unit		Rating Date		Trt-Eval Interval		ZEAMX	ZEAMX	PANDI	PANDI	AMATA	AMATA	ABUTH	ABUTH
Trt	Treatment	Form	Form	Rate	Rate	Prod	Prod	Grow	Appl	Injury	Injury	Control	Control	Control	Control	Control	Control	Control	Control
No.	Name	Conc	Type	Unit	Unit	Rate	Unit	Stg	Code	6-26-06	7-10-06	6-26-06	7-10-06	6-26-06	7-10-06	6-26-06	7-10-06	6-26-06	7-10-06
										14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A
1	NONTREATED									0	0	0	0	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	99	99	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	47	45	99	99	99	99	99	99
3	OPTION	35	WG	0.0082	lb ai/a	0.375	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	75	71	99	99	99	99	99	99
4	OPTION	35	WG	0.0164	lb ai/a	0.75	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	80	80	99	99	99	99	99	99
5	OPTION	35	WG	0.0246	lb ai/a	1.125	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	74	84	99	99	99	99	99	99
6	OPTION	35	WG	0.0328	lb ai/a	1.5	oz/a	4"	GRASS A										
6	PRIME OIL COC	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	65	72	99	99	99	99	99	99
7	ACCENT	75	WG	0.00586	lb ai/a	0.125	oz/a	4"	GRASS A										
7	PRIME OIL COC	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	68	80	99	99	99	99	99	99
8	ACCENT	75	WG	0.0117	lb ai/a	0.25	oz/a	4"	GRASS A										
8	PRIME OIL COC	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	75	88	99	99	99	99	99	99
9	ACCENT	75	WG	0.0176	lb ai/a	0.375	oz/a	4"	GRASS A										
9	PRIME OIL COC	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	0.123	lb ai/a	3	fl oz/a	4"	GRASS A	0	0	84	90	99	99	99	99	99	99
10	ACCENT	75	WG	0.0234	lb ai/a	0.5	oz/a	4"	GRASS A										
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	0.123	lb ai/a	3	fl oz/a	4"	GRASS A	0	0	5	0	99	99	99	99	99	99
11	DESTINY MSO	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	0.123	lb ai/a	3	fl oz/a	4"	GRASS A	0	0	82	79	97	99	99	99	99	99
12	OPTION	35	WG	0.0082	lb ai/a	0.375	oz/a	4"	GRASS A										
12	DESTINY MSO	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	0.123	lb ai/a	3	fl oz/a	4"	GRASS A	0	0	82	85	99	99	99	99	99	99
13	OPTION	35	WG	0.0164	lb ai/a	0.75	oz/a	4"	GRASS A										
13	DESTINY MSO	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	0.123	lb ai/a	3	fl oz/a	4"	GRASS A	0	0	85	87	99	99	99	99	99	99
14	OPTION	35	WG	0.0246	lb ai/a	1.125	oz/a	4"	GRASS A										
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	0.123	lb ai/a	3	fl oz/a	4"	GRASS A	0	0	82	89	98	98	99	99	99	99
15	OPTION	35	WG	0.0328	lb ai/a	1.5	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										
16	AE 0172747	5.25	SC	0.123	lb ai/a	3	fl oz/a	4"	GRASS A	0	0	72	84	99	99	99	99	99	99
16	ACCENT	75	WG	0.00586	lb ai/a	0.125	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										

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

Project Code: 06-2C-MME100 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code										PANDI		AMATA		ABUTH			
Crop Code										ZEAMX		ZEAMX					
Rating Data Type										Injury		Injury					
Rating Unit										Percent		Percent					
Rating Date										6-26-06		7-10-06		7-10-06			
Trt-Eval Interval										14 DA-A		28 DA-A		14 DA-A			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
17	AE 0172747	5.25	SC	0.123	lb ai/a		3 fl oz/a	4"GRASS	A	0	0	78	86	97	98		
17	ACCENT	75	WG	0.0117	lb ai/a	0.25	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								
18	AE 0172747	5.25	SC	0.123	lb ai/a		3 fl oz/a	4"GRASS	A	0	0	88	95	99	99		
18	ACCENT	75	WG	0.0176	lb ai/a	0.375	oz/a	4"GRASS	A								
18	DESTINY MSO	100	LIQ	1.0	% v/v		1 % v/v	4"GRASS	A								
18	28% UAN	100	LIQ	2.5	% v/v		2.5 % v/v	4"GRASS	A								
19	AE 0172747	5.25	SC	0.123	lb ai/a		3 fl oz/a	4"GRASS	A	0	0	86	96	99	99		
19	ACCENT	75	WG	0.0234	lb ai/a	0.5	oz/a	4"GRASS	A								
19	DESTINY MSO	100	LIQ	1.0	% v/v		1 % v/v	4"GRASS	A								
19	28% UAN	100	LIQ	2.5	% v/v		2.5 % v/v	4"GRASS	A								
20	AE 0172747	5.25	SC	0.123	lb ai/a		3 fl oz/a	4"GRASS	A	0	0	0	0	99	99		
20	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	4"GRASS	A								
20	DESTINY MSO	100	LIQ	1.0	% v/v		1 % v/v	4"GRASS	A								
20	28% UAN	100	LIQ	2.5	% v/v		2.5 % v/v	4"GRASS	A								
LSD (P=.05)										0.0	0.0	6.1	4.0	0.9	0.9	0.0	0.0
Replicate F										0.000	0.000	0.208	0.012	1.251	1.688	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	0.8129	0.9885	0.2978	0.1985	1.0000	1.0000
Treatment F										0.000	0.000	219.803	647.898	5230.396	4791.588	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	1.0000	1.0000

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

Project Code: 06-2C-MME100 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code						XANST	XANST				
Crop Code						Control	Control				
Rating Data Type						Percent	Percent				
Rating Unit						6-26-06	7-10-06				
Rating Date						14 DA-A	28 DA-A				
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code		
1	NONTREATED									0	0
2	AE 0172747	5.25	SC	0.123	lb ai/a		3 fl oz/a	4"GRASS A		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		99	99
3	OPTION	35	WG	0.0082	lb ai/a	0.375	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		99	99
4	OPTION	35	WG	0.0164	lb ai/a	0.75	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		99	99
5	OPTION	35	WG	0.0246	lb ai/a	1.125	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		99	99
6	OPTION	35	WG	0.0328	lb ai/a	1.5	oz/a	4"GRASS A			
6	PRIME OIL COC	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		99	99
7	ACCENT	75	WG	0.00586	lb ai/a	0.125	oz/a	4"GRASS A			
7	PRIME OIL COC	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		99	99
8	ACCENT	75	WG	0.0117	lb ai/a	0.25	oz/a	4"GRASS A			
8	PRIME OIL COC	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		99	99
9	ACCENT	75	WG	0.0176	lb ai/a	0.375	oz/a	4"GRASS A			
9	PRIME OIL COC	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	0.123	lb ai/a		3 fl oz/a	4"GRASS A		99	99
10	ACCENT	75	WG	0.0234	lb ai/a	0.5	oz/a	4"GRASS A			
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	0.123	lb ai/a		3 fl oz/a	4"GRASS A		99	99
11	DESTINY MSO	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	0.123	lb ai/a		3 fl oz/a	4"GRASS A		99	99
12	OPTION	35	WG	0.0082	lb ai/a	0.375	oz/a	4"GRASS A			
12	DESTINY MSO	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	0.123	lb ai/a		3 fl oz/a	4"GRASS A		99	99
13	OPTION	35	WG	0.0164	lb ai/a	0.75	oz/a	4"GRASS A			
13	DESTINY MSO	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	0.123	lb ai/a		3 fl oz/a	4"GRASS A		99	99
14	OPTION	35	WG	0.0246	lb ai/a	1.125	oz/a	4"GRASS A			
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	0.123	lb ai/a		3 fl oz/a	4"GRASS A		99	99
15	OPTION	35	WG	0.0328	lb ai/a	1.5	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			
16	AE 0172747	5.25	SC	0.123	lb ai/a		3 fl oz/a	4"GRASS A		99	99
16	ACCENT	75	WG	0.00586	lb ai/a	0.125	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			

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

Project Code: 06-2C-MME100 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	XANST	XANST
Crop Code		
Rating Data Type	Control	Control
Rating Unit	Percent	Percent
Rating Date	6-26-06	7-10-06
Trt-Eval Interval	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		
17	AE 0172747	5.25	SC	0.123	lb ai/a		3 fl oz/a	4"GRASS A		98	98
17	ACCENT	75	WG	0.0117	lb ai/a	0.25	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			
18	AE 0172747	5.25	SC	0.123	lb ai/a		3 fl oz/a	4"GRASS A		98	99
18	ACCENT	75	WG	0.0176	lb ai/a	0.375	oz/a	4"GRASS A			
18	DESTINY MSO	100	LIQ	1.0	% v/v		1 % v/v	4"GRASS A			
18	28% UAN	100	LIQ	2.5	% v/v		2.5 % v/v	4"GRASS A			
19	AE 0172747	5.25	SC	0.123	lb ai/a		3 fl oz/a	4"GRASS A		97	99
19	ACCENT	75	WG	0.0234	lb ai/a	0.5	oz/a	4"GRASS A			
19	DESTINY MSO	100	LIQ	1.0	% v/v		1 % v/v	4"GRASS A			
19	28% UAN	100	LIQ	2.5	% v/v		2.5 % v/v	4"GRASS A			
20	AE 0172747	5.25	SC	0.123	lb ai/a		3 fl oz/a	4"GRASS A		99	99
20	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	4"GRASS A			
20	DESTINY MSO	100	LIQ	1.0	% v/v		1 % v/v	4"GRASS A			
20	28% UAN	100	LIQ	2.5	% v/v		2.5 % v/v	4"GRASS A			
LSD (P=.05)										0.8	0.4
Replicate F										1.199	1.000
Replicate Prob(F)										0.3125	0.3774
Treatment F										5545.848	22037.621
Treatment Prob(F)										0.0001	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.