

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

Project Code: 07-ARC-12B      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:            1-23-08**Objective:**

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

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. PANDI	panicum, fall	Panicum dichotomiflorum Michx.
3. AMARE	pigweed, redroot	Amaranthus retroflexus L.

Crop 1:	ZEAMX corn, field	Variety:	P31G96 RR/HX
Planting Method:	Seeded	Planting Date:	4-23-07
Rate:	28000 S/A	Depth:	1.5 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	27 FT	Reps:	3
Tillage Type:	Reduced-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	ZEAMX, 2006				
Field Prep./Maintenance:	N 130 LB/A, P205 0 LB/A, K20 180 LB/A				

Soil Name:	Weir	% OM:	1.4	pH:	6.9	CEC:	7.3
Texture:	Silt loam	Fert. Level:	P1: 69 LB/A, K: 199 LB/A				

**APPLICATION DESCRIPTION****A**

Application Date:	5-27-07
Time of Day:	9:00
Application Method:	Spray
Application Timing:	4"GRASS
Applic. Placement:	BROFOL
Air Temp., Unit:	75 F
% Relative Humidity:	52
Wind Velocity, Unit:	0-2 MPH
Dew Presence (Y/N):	Y
Soil Temp., Unit:	73 F
Soil Moisture:	NORMAL
% Cloud Cover:	90

**CROP STAGE AT EACH APPLICATION****A**

Crop 1 Code, Stage:	ZEAMX V4
Height, Unit:	16 IN

**WEED STAGE AT EACH APPLICATION****A**

Weed 1 Code:	SETFA
Stage(leaves):	3-13
Height(inches):	3-9
Density:	High

Weed 2 Code:	PANDI
Stage(leaves):	4-9
Height(inches):	4-6
Density:	Medium

Weed 3 Code:	AMARE
Stage(leaves):	5-15
Height(inches):	5-10
Density:	High

**APPLICATION EQUIPMENT****A**

Appl. Equipment:	CO2 sprayer
Operating Pressure:	40 PSI
Nozzle Type:	Flat fan
Nozzle Size:	XR 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	ZEAMX		ZEAMX		ZEAMX		SETFA		SETFA		PANDI		PANDI									
						Moisture Percent	Test wt. lb/bu	Yield bu/A	Injury Percent	Injury Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	9-12-07	9-12-07	9-12-07	6-10-07 14 DA-A	6-24-07 28 DA-A	6-10-07 14 DA-A	6-24-07 28 DA-A	6-10-07 14 DA-A	6-24-07 28 DA-A									
1	AE 0172747	3.5 SC		0.082	lb ai/a	3	fl oz/a	4"	GRASS A	13.5	a	56.1	def	98	cde	0	a	0	a	73	e	72	g	10	f	3	i
1	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	4"	GRASS A																		
1	28% UAN	100 LIQ		2.5	% v/v	2.5	% v/v	4"	GRASS A																		
2	AE 0172747	3.5 SC		0.082	lb ai/a	3	fl oz/a	4"	GRASS A	13.5	a	56.5	a-e	109	bcd	0	a	0	a	90	c	88	de	60	e	72	ef
2	OPTION	35 WG		0.0082	lb ai/a	0.375	oz/a	4"	GRASS A																		
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	3.5 SC		0.082	lb ai/a	3	fl oz/a	4"	GRASS A	13.7	a	57.2	a-d	156	a	0	a	0	a	90	c	90	cde	60	e	62	fg
3	OPTION	35 WG		0.0164	lb ai/a	0.75	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	3.5 SC		0.082	lb ai/a	3	fl oz/a	4"	GRASS A	13.7	a	56.5	a-e	148	ab	0	a	0	a	90	c	90	cde	68	de	77	b-e
4	OPTION	35 WG		0.0246	lb ai/a	1.125	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	3.5 SC		0.082	lb ai/a	3	fl oz/a	4"	GRASS A	13.4	a	57.5	abc	160	a	0	a	0	a	90	c	92	bcd	73	bcd	75	de
5	OPTION	35 WG		0.0328	lb ai/a	1.5	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	3.5 SC		0.082	lb ai/a	3	fl oz/a	4"	GRASS A	13.5	a	57.1	a-d	139	abc	0	a	0	a	82	d	90	cde	67	de	79	a-e
6	ACCENT	75 WG		0.00586	lb ai/a	0.125	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	3.5 SC		0.082	lb ai/a	3	fl oz/a	4"	GRASS A	12.9	a	56.3	b-e	132	abc	0	a	0	a	88	c	90	cde	67	de	76	cde
7	ACCENT	75 WG		0.0117	lb ai/a	0.25	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	3.5 SC		0.082	lb ai/a	3	fl oz/a	4"	GRASS A	13.2	a	57.7	a	154	ab	0	a	0	a	90	c	95	abc	68	de	83	a-e
8	ACCENT	75 WG		0.0176	lb ai/a	0.375	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	3.5 SC		0.082	lb ai/a	3	fl oz/a	4"	GRASS A	13.5	a	56.2	c-f	127	a-d	0	a	0	a	90	c	95	abc	67	de	77	b-e
9	ACCENT	75 WG		0.0234	lb ai/a	0.5	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	3.5 SC		0.082	lb ai/a	3	fl oz/a	4"	GRASS A	13.4	a	55.3	ef	81	de	0	a	0	a	82	d	81	f	3	f	17	h
10	DESTINY MSO	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	3.5 SC		0.082	lb ai/a	3	fl oz/a	4"	GRASS A	13.3	a	56.2	c-f	134	abc	0	a	0	a	83	d	86	ef	63	de	53	g
11	OPTION	35 WG		0.0082	lb ai/a	0.375	oz/a	4"	GRASS A																		
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	3.5 SC		0.082	lb ai/a	3	fl oz/a	4"	GRASS A	13.0	a	56.2	c-f	152	ab	0	a	0	a	90	c	88	de	83	ab	77	b-e
12	OPTION	35 WG		0.0164	lb ai/a	0.75	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	3.5 SC		0.082	lb ai/a	3	fl oz/a	4"	GRASS A	13.4	a	56.9	a-d	135	abc	0	a	0	a	90	c	92	bcd	87	a	87	abc
13	OPTION	35 WG		0.0246	lb ai/a	1.125	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	3.5 SC		0.082	lb ai/a	3	fl oz/a	4"	GRASS A	13.7	a	57.0	a-d	147	ab	0	a	0	a	92	bc	95	abc	88	a	87	a-d
14	OPTION	35 WG		0.0328	lb ai/a	1.5	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	3.5 SC		0.082	lb ai/a	3	fl oz/a	4"	GRASS A	13.4	a	56.7	a-d	143	abc	0	a	0	a	83	d	90	cde	70	cde	82	a-e
15	ACCENT	75 WG		0.00586	lb ai/a	0.125	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										SETFA	SETFA	PANDI	PANDI
Crop Code										Control	Control	Control	Control
Rating Data Type										Percent	Percent	Percent	Percent
Rating Unit										6-10-07	6-24-07	6-10-07	6-24-07
Rating Date										14 DA-A	28 DA-A	14 DA-A	28 DA-A
Trt-Eval Interval										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				
16	AE 0172747	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A		13.3 a	57.7 ab	152 ab	0 a
16	ACCENT	75	WG	0.0117	lb ai/a	0.25	oz/a	4"GRASS A					0 a
16	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"GRASS A					82 d
16	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"GRASS A					95 abc
17	AE 0172747	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A		13.3 a	56.6 a-e	136 abc	0 a
17	ACCENT	75	WG	0.0176	lb ai/a	0.375	oz/a	4"GRASS A					0 a
17	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"GRASS A					90 c
17	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"GRASS A					96 ab
18	AE 0172747	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A		13.5 a	57.2 a-d	143 abc	0 a
18	ACCENT	75	WG	0.0234	lb ai/a	0.5	oz/a	4"GRASS A					0 a
18	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"GRASS A					95 ab
18	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"GRASS A					96 ab
19	AE 0172747	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A		13.2 a	56.3 b-e	125 a-d	0 a
19	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	4"GRASS A					0 a
19	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"GRASS A					96 a
19	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"GRASS A					98 a
20	NONTREATED									13.2 a	54.9 f	62 e	0 a
	LSD (P=.05)									0.83	1.39	46.7	0.0
	Replicate F									2.739	1.757	4.739	0.000
	Replicate Prob(F)									0.0774	0.1862	0.0145	1.0000
	Treatment F									0.498	2.197	2.489	0.000
	Treatment Prob(F)									0.9471	0.0192	0.0082	1.0000

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

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Weed Code	AMARE	AMARE
Crop Code		
Rating Data Type	Control	Control
Rating Unit	Percent	Percent
Rating Date	6-10-07	6-24-07
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		
1	AE 0172747	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	82 f	99 a	
1	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	4"GRASS A			
1	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"GRASS A			
2	AE 0172747	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	90 e	99 a	
2	OPTION	35	WG	0.0082	lb ai/a	0.375	oz/a	4"GRASS A			
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	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	92 de	99 a	
3	OPTION	35	WG	0.0164	lb ai/a	0.75	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	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	92 de	99 a	
4	OPTION	35	WG	0.0246	lb ai/a	1.125	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	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	92 de	99 a	
5	OPTION	35	WG	0.0328	lb ai/a	1.5	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	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	95 bcd	99 a	
6	ACCENT	75	WG	0.00586	lb ai/a	0.125	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	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	93 cde	99 a	
7	ACCENT	75	WG	0.0117	lb ai/a	0.25	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	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	95 bcd	99 a	
8	ACCENT	75	WG	0.0176	lb ai/a	0.375	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	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	95 bcd	99 a	
9	ACCENT	75	WG	0.0234	lb ai/a	0.5	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	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	96 abc	99 a	
10	DESTINY MSO	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	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	98 ab	99 a	
11	OPTION	35	WG	0.0082	lb ai/a	0.375	oz/a	4"GRASS A			
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	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	98 ab	99 a	
12	OPTION	35	WG	0.0164	lb ai/a	0.75	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	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	99 a	99 a	
13	OPTION	35	WG	0.0246	lb ai/a	1.125	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	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	98 ab	99 a	
14	OPTION	35	WG	0.0328	lb ai/a	1.5	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	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	98 ab	99 a	
15	ACCENT	75	WG	0.00586	lb ai/a	0.125	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	AMARE	AMARE
Crop Code		
Rating Data Type	Control	Control
Rating Unit	Percent	Percent
Rating Date	6-10-07	6-24-07
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		
16	AE 0172747	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	93	cde	99 a
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	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	96	abc	99 a
17	ACCENT	75	WG	0.0176	lb ai/a	0.375	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	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	99	a	99 a
18	ACCENT	75	WG	0.0234	lb ai/a	0.5	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	3.5	SC	0.082	lb ai/a	3	fl oz/a	4"GRASS A	99	a	99 a
19	AATREX	90	WG	0.5	lb ai/a	8.9	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	NONTREATED								0	g	0 b
LSD (P=.05)										3.5	0.0
Replicate F										4.337	0.000
Replicate Prob(F)										0.0201	1.0000
Treatment F										317.943	0.000
Treatment Prob(F)										0.0001	1.0000

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

Trial Comments

1. Protocol: Bayer, Waddington.
2. Ratings: CI/WC 14 + 28 DAT. Other evaluations may be necessary.
3. Yield, destroy grain.
4. Target broadleaf signalgrass data.
5. DA-A = Days after 4"GRASS application.
6. Harvested 9-12-07, (2) 30 inch rows by 24 ft.