

**WEED CONTROL IN ROUNDUP READY ALFALFA, 2009**

Trial ID: A0109  
 Conducted: CAMPUS, C25

Study Dir.: Andy Chomas  
 Investigator: Wesley Everman

**Date Planted:** 4/18/06                      **Row Spacing:** 7 IN  
**Variety:** dekalb RR                      **No. of Reps:** 4  
**Population:** 18 lbs/a                      **% OM:** 2.5  
**Soil Type:** loam                              **pH:** 6.9  
**Plot Size:** 10 X 25 FT                      **Design:** RANDOMIZED COMPLETE BLOCK

**Application Description**

	<b>A</b>	<b>B</b>
<b>Application Timing:</b>	0 DAC	10 DAC
<b>Date Treated:</b>	6/23/09	7/7/09
<b>Time Treated:</b>	5:30 PM	9:45 AM
<b>% Cloud Cover:</b>	25	5
<b>Air Temp., Unit:</b>	91 F	60 F
<b>% Relative Humidity:</b>	41	65
<b>Wind Speed/Unit/Dir:</b>	0 mph	5 mph NW
<b>Soil Temp., Unit:</b>	77 F	60 F
<b>Soil/Leaf Surface M:</b>	NA	4
<b>Soil Moist (1=w 5=d):</b>	4	5

**Crop Stage at Each Application**

	<b>A</b>	<b>B</b>
<b>Crop Name:</b>	MEDSA	MEDSA
<b>Height (In.):</b>		7-9(8.5)

**Weed Stage at Each Application**

	<b>A</b>	<b>B</b>
<b>Weed 1 Name:</b>	TAROF	TAROF
<b>Height (In.):</b>		cot-20(8)
<b>Weed 2 Name:</b>	ANGR	ANGR
<b>Weed 3 Name:</b>	CHEAL	CHEAL
<b>Weed 4 Name:</b>	AMARE	AMARE
<b>Weed 5 Name:</b>	AMBEL	AMBEL

**Weed Density (plants/sq. ft.)**

	<b>1</b>	<b>2</b>
<b>Date:</b>	7/7/09	
<b>Weed Name:</b>	TAROF	TAROF
<b>Density:</b>	3	14
<b>Date:</b>	7/7/09	
<b>Weed Name:</b>	ANGR	
<b>Date:</b>	7/7/09	
<b>Weed Name:</b>	CHEAL	
<b>Date:</b>	7/7/09	
<b>Weed Name:</b>	AMARE	
<b>Date:</b>	7/7/09	
<b>Weed Name:</b>	AMBEL	

**Application Equipment**

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom	GPA	Carrier	PSI
	Type	MPH	Type	Size	Height	Spacing	Width			
A	CUB	3.5	FF	8003	22"	20"	100"	20	H20	30
B	CUB	2.5	FF	8003	24"	20"	100"	20	H20	30

**Comments:** 1st cut was 36 % DM  
 2nd cut was 22 % DM



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Weed Code	GR	CHL	NEC	TAROF	GR	CHL	NEC	TAROF						
Crop Code	MEDSA	MEDSA	MEDSA		MEDSA	MEDSA	MEDSA							
Rating Data Type	inj grw red	inj chloro	inj necros	control	inj grw red	inj chloro	inj necros	control						
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent						
Rating Date	7/7/09	7/7/09	7/7/09	7/7/09	7/15/09	7/15/09	7/15/09	7/15/09						
Trt-Eval Interval	14DA0DAC	14DA0DAC	14DA0DAC	14DA0DAC	8DA14DAC	8DA14DAC	8DA14DAC	8DA14DAC						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7	8
18	Poast Plus	1	L	0.3	lb ai/a	14DAC	0	0	0	0	1	1	0	23
18	Roundup WeatherMax	4.5	L	1.5	lb ae/a	14DAC								
LSD (P=.05)							2.1	1.2	1.7	3.5	5.4	5.3	2.7	12.1
Standard Deviation							1.5	0.8	1.2	2.5	3.8	3.7	1.9	8.5
CV							48.03	59.41	848.53	16.55	75.98	88.47	557.81	24.4



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Crop Code	MEDSA	MEDSA	MEDSA		MEDSA	MEDSA	MEDSA							
Rating Data Type	inj grw red	inj chloro	inj necros	control	inj grw red	inj chloro	inj necros	control						
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent						
Rating Date	7/20/09	7/20/09	7/20/09	7/20/09	7/27/09	7/27/09	7/27/09	7/27/09						
Trt-Eval Interval	14D14DAC	14D14DAC	14D14DAC	14D14DAC	21D14DAC	21D14DAC	21D14DAC	21D14DAC						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	9	10	11	12	13	14	15	16
18	Poast Plus	1	L	0.3	lb ai/a	14DAC	3	0	0	68	0	0	0	82
18	Roundup WeatherMax	4.5	L	1.5	lb ae/a	14DAC								
LSD (P=.05)							5.1	4.0	1.7	10.0	4.0	1.9	0.0	9.2
Standard Deviation							3.6	2.9	1.2	7.1	2.9	1.4	0.0	6.5
CV							58.92	87.39	341.9	11.69	74.68	493.49	0.0	9.51



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Weed Code								TAROF		OTHER				TAROF		
Crop Code						MEDSA	MEDSA	MEDSA			MEDSA	MEDSA	MEDSA			
Rating Data Type						yield	yield	dry weight	dry weight	dry weight	yield	yield	dry weight	dry weight		
Rating Unit						lbs/plot	tons/ac	grams	grams	grams	lbs/plot	tons/ac	grams	grams		
Rating Date						7/31/09	7/31/09	7/31/09	7/31/09	7/31/09	8/31/09	8/31/09	8/31/09	8/31/09		
Trt-Eval Interval						HARVEST	HARVEST	36%			HARVEST	HARVEST	.22%			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	17	18	19	20	21	22	23	24	25	
18	Poast Plus	1	L	0.3	lb ai/a	14DAC	15.30	1.8	61.29	0.47		18.68	1.4	231.01		
18	Roundup WeatherMax	4.5	L	1.5	lb ae/a	14DAC										
LSD (P=.05)							2.064	0.25	20.935	1.824	.	2.885	0.21	53.208	3.878	
Standard Deviation							1.460	0.17	14.804	1.140	.	2.040	0.15	37.233	2.319	
CV							9.02	9.02	20.78	154.44	.	11.11	11.11	17.12	147.03	

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Weed Code	ANGR	OTHER
Crop Code		
Rating Data Type	dry weight	dry weight
Rating Unit	grams	grams
Rating Date	8/31/09	8/31/09
Trt-Eval Interval		

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	26	27
1	Non-Treated						1.68	1.23
2	Roundup WeatherMax	4.5	L	1.5	lb ae/a	14DAC		
2	Ammonium Sulfate	100	DF	2	% w/w	14DAC		
3	Roundup OriginalMax	4.5	L	1.5	lb ae/a	14DAC		
3	Ammonium Sulfate	100	DF	2	% w/w	14DAC		
4	Roundup WeatherMax	4.5	L	1.5	lb ae/a	14DAC		
4	Raptor	1	L	0.047	lb ai/a	14DAC		
4	Ammonium Sulfate	100	DF	2	% w/w	14DAC		
4	Activator 90		L	0.25	% v/v	14DAC		
5	Roundup OriginalMax	4.5	L	1.5	lb ae/a	14DAC		
5	Raptor	1	L	0.047	lb ai/a	14DAC		
5	Ammonium Sulfate	100	DF	2	% w/w	14DAC		
5	Activator 90		L	0.25	% v/v	14DAC		
6	Roundup WeatherMax	4.5	L	1.5	lb ae/a	14DAC		
6	Pursuit	2	L	0.094	lb ai/a	14DAC		
6	Ammonium Sulfate	100	DF	2	% w/w	14DAC		
6	Activator 90		L	0.25	% v/v	14DAC		
7	Roundup OriginalMax	4.5	L	1.5	lb ae/a	14DAC		
7	Pursuit	2	L	0.094	lb ai/a	14DAC		
7	Ammonium Sulfate	100	DF	2	% w/w	14DAC		
7	Activator 90		L	0.25	% v/v	14DAC		
8	Roundup WeatherMax	4.5	L	1.5	lb ae/a	0 DAC		0.08
8	Butyrac 200 (24db)	2	L	1.5	lb ai/a	0 DAC		
8	Ammonium Sulfate	100	DF	2	% w/w	0 DAC		
9	Roundup OriginalMax	4.5	L	1.5	lb ae/a	0 DAC	7.15	1.04
9	Butyrac 200 (24db)	2	L	1.5	lb ai/a	0 DAC		
9	Ammonium Sulfate	100	DF	2	% w/w	0 DAC		
10	Roundup WeatherMax	4.5	L	1.5	lb ae/a	14DAC		
10	Select Max	0.97	L	0.25	lb ai/a	14DAC		
10	Ammonium Sulfate	100	DF	2	% w/w	14DAC		
10	Activator 90		L	0.25	% v/v	14DAC		
11	Roundup OriginalMax	4.5	L	1.5	lb ae/a	14DAC		
11	Select Max	0.97	L	0.25	lb ai/a	14DAC		
11	Ammonium Sulfate	100	DF	2	% w/w	14DAC		
11	Activator 90		L	0.25	% v/v	14DAC		
12	Raptor	1	L	0.047	lb ai/a	14DAC		
12	Ammonium Sulfate	100	DF	2	% w/w	14DAC		
12	Activator 90		L	0.25	% v/v	14DAC		
13	Pursuit	2	L	0.094	lb ai/a	14DAC		
13	Ammonium Sulfate	100	DF	2	% w/w	14DAC		
13	Activator 90		L	0.25	% v/v	14DAC		
14	Butyrac 200 (24db)	2	L	1.5	lb ai/a	0 DAC	5.17	7.80
15	Select Max	0.97	L	0.25	lb ai/a	14DAC	0.76	0.05
16	Poast Plus	1	L	0.3	lb ai/a	14DAC	0.34	
16	Herbimax		L	1	qt/a	14DAC		
17	Poast Plus	1	L	0.3	lb ai/a	14DAC		
17	Roundup OriginalMax	4.5	L	1.5	lb ae/a	14DAC		
17	Ammonium Sulfate	100	DF	2	% w/w	14DAC		



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Crop Code		
Rating Data Type	dry weight	dry weight
Rating Unit	grams	grams
Rating Date	8/31/09	8/31/09
Trt-Eval Interval		

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	26	27
18	Poast Plus	1	L	0.3	lb ai/a	14DAC		
18	Roundup WeatherMax	4.5	L	1.5	lb ae/a	14DAC		

LSD (P=.05)	69.094	.
Standard Deviation	7.690	.
CV	254.79	.

ARM Action Codes

T1 = ((([C17]\*.36)/(66/43560))/2000)

T2 = ((([C22]\*.22)/(66/43560))/2000)