

# Alfalfa

12-12-06 (06-7)

Southern Illinois University

Roundup Ready Alfalfa Evaluation.

Project Code: 06-7      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:      11-15-06

## Objective:

Evaluate the performance of RR alfalfa in terms of crop response, weed control and yield compared with standard herbicide treatments.

Weed Code	Common Name	Scientific Name
1. PANDI	panicum, fall	Panicum dichotomiflorum Michx.
2. CYPES	nutsedge, yellow	Cyperus esculentus L.
3. CHEAL	lambsquarters, common	Chenopodium album L.
4. AMATA	waterhemp, common	Amaranthus rudis Sauer
5. SOLPT	nightshade, eastern black	Solanum ptycanthum Dunal
6. SETLU	foxtail, yellow	Setaria glauca (L.) Beauv.

Crop 1:      MEDSA alfalfa      Variety:      RR05-060104  
Planting Method: Seeded      Planting Date: 4-11-06  
Rate:      18      lb/A

Plot Width, Unit: 10      FT      Plot Length, Unit: 29      FT      Reps: 4  
Tillage Type: Reduced-Till      Study Design: Randomized complete block

Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 100 LB/A

Soil Name: Hosmer      % OM: 1.8      pH: 6.4      CEC: 8  
Texture: Silt loam      Fert. Level: P1: 87 LB/A, K: 415 LB/A

## APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	4-11-06	5-19-06	6-9-06	5-30-06
Time of Day:	8:00	11:00	10:00	9:00
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PPI	1-2 Trifol	3WA-B	3-4 Trifol
Applic. Placement:	BROSIOI	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	60 F	76 F	84 F	76 F
% Relative Humidity:	70	54	72	94
Wind Velocity, Unit:	5 MPH	1-2 MPH	1-2 MPH	1-3 MPH
Soil Moisture:	NORMAL	NORMAL	NORMAL	NORMAL

## CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	MEDSA NA	MEDSA 1-2T	MEDSA 10-14T	MEDSA 3-4T
Height, Unit:	NA NA	1-3 IN	7-9 IN	4-5 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code:			PANDI	PANDI
Stage (leaves):			3-4	3-4
Height (inches):			3-4	6-7
Density:			Low	Medium
Weed 2 Code:		CYPES	CYPES	CYPES
Stage (leaves):		5-6	6-7	8-9
Height (inches):		3-5	6-7	6-7
Density:		Medium	Low	Medium
Weed 3 Code:		CHEAL		CHEAL
Stage (leaves):		6-8		20-22
Height (inches):		2-3		8-9
Density:		Medium		Medium
Weed 4 Code:				AMATA
Stage (leaves):				8-10
Height (inches):				5-6
Density:				Low
Weed 6 Code:			SETLU	SETLU
Stage (leaves):			3-4	3-4
Height (inches):			3-4	6-7
Density:			Low	Medium

## APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	8002	8002	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA

NOTES:

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	MEDSA Chlora Percent 5-26-06 7 DA-B	MEDSA Chlora Percent 6-2-06 14 DA-B	MEDSA Chlora Percent 7 DAPO	MEDSA Chlora Percent 14 DAPO	MEDSA Chlora Percent 28 DAPO	MEDSA GRORED Percent 5-26-06 7 DA-B	MEDSA GRORED Percent 6-2-06 14 DA-B
1	NONTREATED									0	0	0	0	0	0	0
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	1-2	Trifol B	0	0	0	0	0	0	0
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2	Trifol B							
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3	WA-B C							
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3	WA-B C							
3	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	1-2	Trifol B	0	0	0	0	0	0	0
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2	Trifol B							
3	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	3	WA-B C							
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3	WA-B C							
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4	Trifol D			0	0	0		
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4	Trifol D							
5	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	3-4	Trifol D			0	0	0		
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4	Trifol D							
6	TREFLAN	4	EC	0.75	lb ai/a	1.5	pt/a	PPI	A	0	0	0	0	0	0	0
7	PURSUIT	2	SL	0.063	lb ai/a	4	oz/a	3-4	Trifol D			0	0	0		
7	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-4	Trifol D							
7	AMS	100	DRY	1.8	% w/w	15	lb/100 gal	3-4	Trifol D							
8	TREFLAN	4	EC	0.75	lb ai/a	1.5	pt/a	PPI	A	0	0	0	0	0	0	0
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4	Trifol D							
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4	Trifol D							
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4	Trifol D			0	0	0		
9	PURSUIT	2	SL	0.063	lb ai/a	4	oz/a	3-4	Trifol D							
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4	Trifol D							
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	1-2	Trifol B	0	0	0	0	0	0	0
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2	Trifol B							
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3	WA-B C							
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3	WA-B C							
10	Destructive sample spring 2007															
LSD (P=.05)										0.0	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F										0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Roundup Ready Alfalfa Evaluation.

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

MEDSA MEDSA MEDSA MEDSA MEDSA  
 GRORED GRORED GRORED Injury Injury  
 Percent Percent Percent Percent Percent  
 7 DAPO 14 DAPO 28 DAPO Harvest2 Harvest3

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	MEDSA GRORED Percent	MEDSA GRORED Percent	MEDSA GRORED Percent	MEDSA Injury Percent	MEDSA Injury Percent	
1	NONTREATED									0	0	0	0	0	
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	1-2	Trifol B	0	0	0	0	0	
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2	Trifol B						
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-B	C						
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C						
3	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	1-2	Trifol B	0	0	0	0	0	
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2	Trifol B						
3	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	3WA-B	C						
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C						
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4	Trifol D	0	0	0	0	0	
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4	Trifol D						
5	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	3-4	Trifol D	0	0	0	0	0	
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4	Trifol D						
6	TREFLAN	4	EC	0.75	lb ai/a	1.5	pt/a	PPI	A	0	0	0	0	0	
7	PURSUIT	2	SL	0.063	lb ai/a	4	oz/a	3-4	Trifol D	0	0	0	0	0	
7	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-4	Trifol D						
7	AMS	100	DRY	1.8	% w/w	15	lb/100 gal	3-4	Trifol D						
8	TREFLAN	4	EC	0.75	lb ai/a	1.5	pt/a	PPI	A	0	0	0	0	0	
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4	Trifol D						
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4	Trifol D						
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4	Trifol D	0	0	0	0	0	
9	PURSUIT	2	SL	0.063	lb ai/a	4	oz/a	3-4	Trifol D						
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4	Trifol D						
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	1-2	Trifol B	0	0	0	0	0	
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2	Trifol B						
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-B	C						
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C						
10	Destructive sample spring 2007														
LSD (P=.05)										0.0	0.0	0.0	0.0	0.0	
Replicate F										0.000	0.000	0.000	0.000	0.000	
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000	
Treatment F										0.000	0.000	0.000	0.000	0.000	
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000	

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									PANDI	PANDI	PANDI	CYPES	CYPES
									Control	Control	Control	Control	Control
									Percent	Percent	Percent	Percent	Percent
									6-26-06	7-28-06	8-30-06	6-26-06	7-28-06
									Harvest1	Harvest2	Harvest3	Harvest1	Harvest2
Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl					
No.	Name	Conc	Type	Rate	Rate	Unit	Stg	Code					
1	NONTREATED								0	0	0	0	0
2	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a		1-2Trifol	B	99	99	99	99	99
2	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		1-2Trifol	B					
2	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a		3WA-B	C					
2	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		3WA-B	C					
3	ROUNDUP W-MAX	4.5	SL	1.5 lb ae/a	42.7 fl oz/a		1-2Trifol	B	99	99	99	99	99
3	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		1-2Trifol	B					
3	ROUNDUP W-MAX	4.5	SL	1.5 lb ae/a	42.7 fl oz/a		3WA-B	C					
3	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		3WA-B	C					
4	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a		3-4Trifol	D	99	99	99	99	99
4	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		3-4Trifol	D					
5	ROUNDUP W-MAX	4.5	SL	1.5 lb ae/a	42.7 fl oz/a		3-4Trifol	D	99	99	99	99	99
5	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		3-4Trifol	D					
6	TREFLAN	4	EC	0.75 lb ai/a	1.5 pt/a		PPI	A	99	93	98	0	64
7	PURSUIT	2	SL	0.063 lb ai/a	4 oz/a		3-4Trifol	D	95	87	86	99	84
7	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		3-4Trifol	D					
7	AMS	100	DRY	1.8 % w/w	15 lb/100 gal		3-4Trifol	D					
8	TREFLAN	4	EC	0.75 lb ai/a	1.5 pt/a		PPI	A	99	99	99	99	99
8	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a		3-4Trifol	D					
8	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		3-4Trifol	D					
9	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a		3-4Trifol	D	99	99	99	99	99
9	PURSUIT	2	SL	0.063 lb ai/a	4 oz/a		3-4Trifol	D					
9	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		3-4Trifol	D					
10	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a		1-2Trifol	B	99	99	99	99	99
10	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		1-2Trifol	B					
10	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a		3WA-B	C					
10	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		3WA-B	C					
10	Destructive sample spring 2007												
LSD (P=.05)									2.4	5.5	4.5	0.0	19.7
Replicate F									1.000	1.339	1.332	0.000	1.338
Replicate Prob(F)									0.4079	0.2824	0.2845	1.0000	0.2828
Treatment F									1440.334	266.578	393.993	0.000	21.720
Treatment Prob(F)									0.0001	0.0001	0.0001	1.0000	0.0001

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								CHEAL	CHEAL	CHEAL	AMATA	AMATA	AMATA	
								Control	Control	Control	Control	Control	Control	
								Percent	Percent	Percent	Percent	Percent	Percent	
								6-26-06	7-28-06	8-30-06	6-26-06	7-28-06	8-30-06	
								Harvest1	Harvest2	Harvest3	Harvest1	Harvest2	Harvest3	
Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl						
No.	Name	Conc	Type	Unit	Rate	Unit	Stg	Code						
1	NONTREATED								0	0	0	0	0	0
2	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a		1-2Trifol	B	99	99	99	99	99	99
2	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		1-2Trifol	B						
2	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a		3WA-B	C						
2	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		3WA-B	C						
3	ROUNDUP W-MAX	4.5	SL	1.5 lb ae/a	42.7 fl oz/a		1-2Trifol	B	99	99	99	99	99	99
3	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		1-2Trifol	B						
3	ROUNDUP W-MAX	4.5	SL	1.5 lb ae/a	42.7 fl oz/a		3WA-B	C						
3	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		3WA-B	C						
4	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a		3-4Trifol	D	99	99	99	99	99	99
4	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		3-4Trifol	D						
5	ROUNDUP W-MAX	4.5	SL	1.5 lb ae/a	42.7 fl oz/a		3-4Trifol	D	99	99	99	99	99	99
5	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		3-4Trifol	D						
6	TREFLAN	4	EC	0.75 lb ai/a	1.5 pt/a		PPI	A	86	95	98	83	81	99
7	PURSUIT	2	SL	0.063 lb ai/a	4 oz/a		3-4Trifol	D	84	84	81	29	41	45
7	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		3-4Trifol	D						
7	AMS	100	DRY	1.8 % w/w	15 lb/100 gal		3-4Trifol	D						
8	TREFLAN	4	EC	0.75 lb ai/a	1.5 pt/a		PPI	A	99	99	99	99	99	99
8	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a		3-4Trifol	D						
8	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		3-4Trifol	D						
9	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a		3-4Trifol	D	99	99	99	99	99	99
9	PURSUIT	2	SL	0.063 lb ai/a	4 oz/a		3-4Trifol	D						
9	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		3-4Trifol	D						
10	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a		1-2Trifol	B	99	99	99	99	99	99
10	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		1-2Trifol	B						
10	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a		3WA-B	C						
10	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		3WA-B	C						
10	Destructive sample spring 2007													
LSD (P=.05)									3.5	3.2	1.4	15.5	21.8	23.8
Replicate F									1.714	1.345	1.375	1.236	1.072	1.000
Replicate Prob(F)									0.1877	0.2805	0.2716	0.3160	0.3776	0.4079
Treatment F									653.960	796.192	3927.523	45.150	20.438	17.080
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Roundup Ready Alfalfa Evaluation.

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Weed Code		SOLPT		SETLU		SETLU		MEDSA		MEDSA					
Crop Code		Control		Control		Control		Yield		Yield					
Rating Data Type		Percent		Percent		Percent		dw t/A		dw t/A					
Rating Unit		6-26-06		7-28-06		7-28-06		8-30-06		6-27-06					
Rating Date		Harvest1		Harvest2		Harvest2		Harvest3		Harvest1					
Trt-Eval Interval		Harvest1		Harvest2		Harvest2		Harvest3		Harvest2					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	NONTREATED									0	0	0			
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	1-2Trifol	B	99	99	99			
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B						
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-B	C						
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C						
3	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	1-2Trifol	B	99	99	99			
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B						
3	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	3WA-B	C						
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C						
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D	99	99	99			
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D						
5	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	3-4Trifol	D	99	99	99			
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D						
6	TREFLAN	4	EC	0.75	lb ai/a	1.5	pt/a	PPI	A	79	91	93			
7	PURSUIT	2	SL	0.063	lb ai/a	4	oz/a	3-4Trifol	D	96	86	85			
7	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-4Trifol	D						
7	AMS	100	DRY	1.8	% w/w	15	lb/100 gal	3-4Trifol	D						
8	TREFLAN	4	EC	0.75	lb ai/a	1.5	pt/a	PPI	A	99	99	99			
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D						
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D						
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D	99	99	99			
9	PURSUIT	2	SL	0.063	lb ai/a	4	oz/a	3-4Trifol	D						
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D						
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	1-2Trifol	B	99	99	99			
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B						
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-B	C						
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C						
10	Destructive sample spring 2007														
LSD (P=.05)										6.9	3.5	4.4	2.1	0.229	0.177
Replicate F										0.716	0.624	1.771	1.000	0.140	1.344
Replicate Prob(F)										0.5509	0.6055	0.1764	0.4079	0.9351	0.2809
Treatment F										169.617	645.829	420.014	1915.667	1.522	0.618
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.1904	0.7710

Roundup Ready Alfalfa Evaluation.

Project Code: 06-7 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code		TTTTT		TTTTT		TTTTT		MEDSA		MEDSA				
Crop Code		Yield		Yield		Yield		Plants		Plants				
Rating Data Type		dw t/A		dw t/A		dw t/A		1.0 sqft		1.0 sqft				
Rating Unit		6-27-06		7-31-06		8-31-06		6-29-06		9-5-06				
Rating Date		Harvest1		Harvest2		Harvest3		Harvest1		Harvest3				
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	NONTREATED									0.43	0.08	0.37	25.8	14.9
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	1-2Trifol	B	0.00	0.00	0.46	27.7	15.8
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B					
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-B	C					
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C					
3	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	1-2Trifol	B	0.00	0.00	0.40	28.3	14.6
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B					
3	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	3WA-B	C					
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C					
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D	0.00	0.00	0.40	27.8	16.6
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D					
5	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	3-4Trifol	D	0.00	0.00	0.39	23.9	16.2
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D					
6	TREFLAN	4	EC	0.75	lb ai/a	1.5	pt/a	PPI	A	0.18	0.01	0.41	24.2	15.4
7	PURSUIT	2	SL	0.063	lb ai/a	4	oz/a	3-4Trifol	D	0.08	0.04	0.38	23.3	14.7
7	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-4Trifol	D					
7	AMS	100	DRY	1.8	% w/w	15	lb/100 gal	3-4Trifol	D					
8	TREFLAN	4	EC	0.75	lb ai/a	1.5	pt/a	PPI	A	0.00	0.00	0.40	25.8	16.2
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D					
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D					
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D	0.00	0.00	0.43	27.1	14.8
9	PURSUIT	2	SL	0.063	lb ai/a	4	oz/a	3-4Trifol	D					
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D					
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	1-2Trifol	B	0.00	0.00	0.37	25.5	16.7
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B					
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-B	C					
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C					
10	Destructive sample spring 2007													
LSD (P=.05)										0.188	0.034	0.068	5.05	3.10
Replicate F										1.123	0.283	1.451	12.470	5.572
Replicate Prob(F)										0.3571	0.8372	0.2539	0.0001	0.0041
Treatment F										4.552	4.887	1.420	1.024	0.585
Treatment Prob(F)										0.0010	0.0006	0.2366	0.4464	0.7973

Roundup Ready Alfalfa Evaluation.

Project Code: 06-7 Location: Belleville Research Center  
 Investigator: Bryan Young

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

MEDSA MEDSA MEDSA MEDSA MEDSA MEDSA MEDSA  
 CP ADF NDF ADL IVTD NDFD TDN  
 6-27-06 6-27-06 6-27-06 6-27-06 6-27-06 6-27-06 6-27-06  
 Harvest1 Harvest1 Harvest1 Harvest1 Harvest1 Harvest1 Harvest1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	MEDSA CP	MEDSA ADF	MEDSA NDF	MEDSA ADL	MEDSA IVTD	MEDSA NDFD	MEDSA TDN
1	NONTREATED									20.7	28.4	32.2	5.7	84.3	55.7	66.0
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	1-2Trifol	B	24.4	27.1	30.4	5.4	83.3	55.6	66.5
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B							
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-B	C							
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C							
3	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	1-2Trifol	B	24.0	27.9	31.1	5.5	82.6	55.5	66.4
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B							
3	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	3WA-B	C							
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C							
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D	24.1	28.3	31.4	5.7	82.3	55.2	65.5
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D							
5	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	3-4Trifol	D	25.0	27.5	30.5	5.4	82.8	56.3	65.9
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D							
6	TREFLAN	4	EC	0.75	lb ai/a	1.5	pt/a	PPI	A	22.3	29.8	34.1	6.1	81.9	53.7	64.8
7	PURSUIT	2	SL	0.063	lb ai/a	4	oz/a	3-4Trifol	D	24.0	27.1	30.4	5.3	83.7	56.8	66.7
7	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-4Trifol	D							
7	AMS	100	DRY	1.8	% w/w	15	lb/100 gal	3-4Trifol	D							
8	TREFLAN	4	EC	0.75	lb ai/a	1.5	pt/a	PPI	A	24.6	28.0	31.0	5.7	82.7	54.4	65.7
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D							
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D							
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D	24.3	27.5	31.0	5.7	83.0	55.2	66.1
9	PURSUIT	2	SL	0.063	lb ai/a	4	oz/a	3-4Trifol	D							
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D							
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	1-2Trifol	B	24.4	29.1	32.4	5.9	81.6	53.6	64.9
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B							
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-B	C							
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C							
10	Destructive sample spring 2007															
LSD (P=.05)										1.21	1.74	2.18	0.55	1.70	3.32	1.98
Replicate F										2.681	6.321	5.690	2.651	3.306	1.671	2.253
Replicate Prob(F)										0.0668	0.0022	0.0037	0.0689	0.0352	0.1968	0.1050
Treatment F										9.894	2.016	2.353	1.532	1.970	0.846	0.884
Treatment Prob(F)										0.0001	0.0770	0.0414	0.1871	0.0838	0.5817	0.5515



Roundup Ready Alfalfa Evaluation.

Project Code: 06-7 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code  
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 Rating Unit  
 Rating Date  
 Trt-Eval Interval

MEDSA MEDSA MEDSA MEDSA  
 RFV RFQ ASH Milk/T  
 6-27-06 6-27-06 6-27-06 6-27-06  
 Harvest1 Harvest1 Harvest1 Harvest1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	MEDSA RFV	MEDSA RFQ	MEDSA ASH	MEDSA Milk/T
1	NONTREATED									194	217	12.3	3297
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	1-2Trifol	B	208	230	12.4	3329
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B				
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-B	C				
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C				
3	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	1-2Trifol	B	201	224	12.1	3327
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B				
3	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	3WA-B	C				
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C				
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D	199	219	12.8	3255
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D				
5	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	3-4Trifol	D	207	229	13.0	3292
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D				
6	TREFLAN	4	EC	0.75	lb ai/a	1.5	pt/a	PPI	A	182	201	11.8	3200
7	PURSUIT	2	SL	0.063	lb ai/a	4	oz/a	3-4Trifol	D	208	232	12.5	3351
7	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-4Trifol	D				
7	AMS	100	DRY	1.8	% w/w	15	lb/100 gal	3-4Trifol	D				
8	TREFLAN	4	EC	0.75	lb ai/a	1.5	pt/a	PPI	A	202	221	12.6	3259
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D				
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D				
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D	204	224	12.3	3300
9	PURSUIT	2	SL	0.063	lb ai/a	4	oz/a	3-4Trifol	D				
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D				
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	1-2Trifol	B	191	209	12.5	3199
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B				
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-B	C				
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C				
10	Destructive sample spring 2007												
LSD (P=.05)										16.5	23.9	0.76	164.3
Replicate F										6.322	3.941	0.989	2.072
Replicate Prob(F)										0.0022	0.0187	0.4126	0.1274
Treatment F										2.234	1.433	1.863	0.853
Treatment Prob(F)										0.0515	0.2236	0.1021	0.5758

Roundup Ready Alfalfa Evaluation.

Project Code: 06-7 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code  
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 Trt-Eval Interval

MEDSA MEDSA MEDSA MEDSA MEDSA MEDSA MEDSA  
 CP ADF NDF ADL IVTD NDFD TDN  
 7-31-06 7-31-06 7-31-06 7-31-06 7-31-06 7-31-06 7-31-06  
 Harvest2 Harvest2 Harvest2 Harvest2 Harvest2 Harvest2 Harvest2

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	MEDSA CP	MEDSA ADF	MEDSA NDF	MEDSA ADL	MEDSA IVTD	MEDSA NDFD	MEDSA TDN
1	NONTREATED									21.7	30.2	34.9	5.9	81.1	49.2	64.0
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	1-2Trifol	B	22.1	30.3	34.7	6.3	79.6	48.9	63.4
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B							
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-B	C							
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C							
3	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	1-2Trifol	B	21.8	29.3	33.7	6.1	80.4	48.9	64.7
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B							
3	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	3WA-B	C							
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C							
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D	22.1	30.1	34.8	6.3	79.7	48.2	63.5
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D							
5	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	3-4Trifol	D	22.0	29.4	33.6	6.0	80.5	49.9	64.8
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D							
6	TREFLAN	4	EC	0.75	lb ai/a	1.5	pt/a	PPI	A	21.9	29.5	34.4	6.0	80.5	48.8	64.4
7	PURSUIT	2	SL	0.063	lb ai/a	4	oz/a	3-4Trifol	D	21.9	29.5	34.3	5.8	81.2	49.3	64.3
7	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-4Trifol	D							
7	AMS	100	DRY	1.8	% w/w	15	lb/100 gal	3-4Trifol	D							
8	TREFLAN	4	EC	0.75	lb ai/a	1.5	pt/a	PPI	A	21.9	29.7	34.2	6.1	80.3	49.3	64.3
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D							
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D							
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D	22.5	29.8	34.6	6.2	80.4	48.8	63.9
9	PURSUIT	2	SL	0.063	lb ai/a	4	oz/a	3-4Trifol	D							
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D							
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	1-2Trifol	B	22.1	29.2	33.6	5.9	80.9	49.6	64.6
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B							
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-B	C							
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C							
10	Destructive sample spring 2007															
LSD (P=.05)										1.28	1.81	1.96	0.50	1.29	1.67	1.45
Replicate F										4.244	5.195	4.794	0.632	1.386	0.152	2.797
Replicate Prob(F)										0.0140	0.0058	0.0084	0.6009	0.2685	0.9274	0.0592
Treatment F										0.260	0.400	0.536	1.162	1.486	0.698	0.930
Treatment Prob(F)										0.9802	0.9244	0.8353	0.3571	0.2032	0.7049	0.5157

## Roundup Ready Alfalfa Evaluation.

Project Code: 06-7 Location: Belleville Research Center  
 Investigator: Bryan Young

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

MEDSA RFV	MEDSA RFQ	MEDSA ASH	MEDSA Milk/T
7-31-06 Harvest2	7-31-06 Harvest2	7-31-06 Harvest2	7-31-06 Harvest2

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	NONTREATED									176	186	10.9	3107
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	1-2Trifol	B	176	184	11.5	3062
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B				
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-B	C				
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C				
3	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	1-2Trifol	B	183	193	10.7	3151
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B				
3	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	3WA-B	C				
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C				
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D	175	183	11.1	3063
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D				
5	ROUNDUP W-MAX	4.5	SL	1.5	lb ae/a	42.7	fl oz/a	3-4Trifol	D	183	196	10.9	3170
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D				
6	TREFLAN	4	EC	0.75	lb ai/a	1.5	pt/a	PPI	A	179	188	10.6	3133
7	PURSUIT	2	SL	0.063	lb ai/a	4	oz/a	3-4Trifol	D	179	189	11.0	3121
7	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-4Trifol	D				
7	AMS	100	DRY	1.8	% w/w	15	lb/100 gal	3-4Trifol	D				
8	TREFLAN	4	EC	0.75	lb ai/a	1.5	pt/a	PPI	A	180	191	11.0	3125
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D				
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D				
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4Trifol	D	177	186	11.0	3092
9	PURSUIT	2	SL	0.063	lb ai/a	4	oz/a	3-4Trifol	D				
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4Trifol	D				
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	1-2Trifol	B	184	195	11.0	3152
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-2Trifol	B				
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-B	C				
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3WA-B	C				
10	Destructive sample spring 2007												
LSD (P=.05)										13.4	15.4	0.67	113.9
Replicate F										5.287	3.442	2.670	2.317
Replicate Prob(F)										0.0053	0.0307	0.0676	0.0981
Treatment F										0.499	0.709	0.953	0.874
Treatment Prob(F)										0.8620	0.6959	0.4980	0.5589

## Trial Comments

1. Protocol: Monsanto.
2. Ratings:  
Chlorosis and growth reduction at 7, 14 and 28 dat;  
WC prior to each harvest;  
alfalfa plants per sqft after first and last harvest of season (3 counts per plot).
3. Maintain pest control over entire area as needed and record details of all applications.
4. Document weed pressure (low, medium, high) at the time of herbicide application to each plot, by species.
5. Yield: Record forage yield (dry weight basis) for each treatment from each cutting.  
Quality: Dry and ship sub samples, for each treatment from first two cuttings of the study, to the designated forage lab (as per quality sampling/ handling/shipping protocol). For best sample quality, dry samples in a forced air drying oven. Drying can also be achieved by placing paper-bagged sample into a conventional oven set at 150 degrees Fahrenheit until dry. Microwave ovens can also be used for drying standing forage samples. Microwave paper-bagged samples at 50 to 90 percent power setting until dry. Monitor carefully to prevent burning the sample.  
Botanical composition: For each of the first two cuttings, divide a representative sample of each harvested plot into its alfalfa and total weed fractions. Report each fraction on a dry weight basis.
6. Blanket application of Warrior 0.025 lbai/A applied 6-9-06 for leaf hoppers.
7. MEDSA = Alfalfa. TTTTT = Weeds. dw t/A = Ton per acre dry weight basis. Chloro = Chlorosis. GRORED = Growth reduction.

## Roundup Ready Alfalfa Evaluation.

Project Code: 06-7      Location: Belleville Research Center  
 Investigator: Bryan Young

1.0 sqft = One square foot.

DA-B = Days after 1-2 Trifol application.

DAPO = Days after postemergence application (either 3WA-B or 3-4 Trifol applications).

Ratings at 7, 14, and 28 days after the 3WA-B application were on 6-17-06, 6-24-06, and 7-7-06, respectively.

Ratings at 7, 14, and 28 days after the 3-4 Trifol application were on 6-6-06, 6-13-06, and 6-27-06, respectively.

At harvest3, weeds were not separated from alfalfa, harvest is total harvest, alfalfa and weeds.

At harvest3, missing data for plots 102-105 was due diminished growth due to shade from trees.

Plots 102-105 were harvested with yields (ton/A dry weight basis) as follows; 0.20, 0.14, 0.21, and 0.17, respectively.

8. Ratings at 7 and 14 DA-B were also 45 and 52 days after the PPI application.

9. Calculations:

(g wet composite harvest per 78 sqft) \* (alfalfa dry / alfalfa wet) \* (alfalfa dry / (alfalfa dry + weeds dry)) \* (43560 / 78 / 453.6 / 2000) = Alfalfa, ton/A dry weight basis.

(g wet composite harvest per 78 sqft) \* (weed dry / weeds wet) \* (weeds dry / (alfalfa dry + weeds dry)) \* (43560 / 78 / 453.6 / 2000) = Weeds, ton/A dry weight basis.