

# No-till Corn Weed Control Studies

12-05-05 (05-11A-W50)

Southern Illinois University

Winter Annual Weed Control in Roundup Ready Corn.

Project Code: 05-11A-W50      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:      11-14-05

**Objective:**

Determine performance of various strategies for control of winter annual weeds in a Roundup Ready corn system.

Weed Code	Common Name	Scientific Name
1.	ALLVI garlic, wild	Allium vineale L.
2.	LAMAM henbit	Lamium amplexicaule L.
3.	STEME chickweed, common	Stellaria media (L.) Vill.
4.	RANAB buttercup, smallflower	Ranunculus abortivus L.
5.	AMBTR ragweed, giant	Ambrosia trifida L.
6.	SETFA foxtail, giant	Setaria faberi Herrm.

Crop 1:            ZEAMX corn, field            Variety:            DKC 60-17 RR  
Planting Method: Seeded            Planting Date:    5-8-05  
Rate:            28000 S/A            Depth:            1.5 IN  
Row Spacing:    30 IN

Plot Width, Unit: 10 FT            Plot Length, Unit: 26 FT      Reps: 3  
Tillage Type:      No-Till            Study Design: Randomized complete block  
Previous Crop, Year: GLXMA, 2004

Field Prep./Maintenance: N 150 LB/A, P205 50 LB/A, K20 100 LB/A

Soil Name: Weir                      % OM: 2            pH: 5.6            CEC: 11  
Texture:      Silt loam            Fert. Level:      P1: 75 LB/A, K: 348 LB/A

**APPLICATION DESCRIPTION**

	A	B	C	D	E
Application Date:	11-16-04	04-27-05	05-10-05	05-26-05	06-08-05
Time of Day:	15:30	8:00	9:00	10:30	10:00
Application Method:	Spray	Spray	Spray	Spray	Spray
Application Timing:	FALL	14DBP	PRE	POST-IN-1	POST-IN-2
Applic. Placement:	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	58 F	46 F	70 F		
% Relative Humidity:	70	70	72		
Wind Velocity, Unit:	0 MPH	3 MPH	0 MPH	9-12 MPH	3 MPH
Soil Moisture:	ABONOR	ABONOR	NORMAL	NORMAL	BELNOR

**CROP STAGE AT EACH APPLICATION**

	A	B	C	D	E
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX NA	ZEAMX NA	ZEAMX V3	ZEAMX V6
Height, Unit:	NA NA	NA NA	NA NA	6 IN	10-12 IN

**WEED STAGE AT EACH APPLICATION**

	A	B	C	D	E
Weed 1 Code:	ALLVI		ALLVI		
Stage (leaves):	3-4		3-4		
Height (inches):	6-8		10-16		
Density:	Medium		Medium		
Weed 2 Code:	LAMAM				
Stage (leaves):	3-4				
Height (inches):	0-1				
Density:	Medium				
Weed 3 Code:	STEME		STEME		
Stage (leaves):	5-6		10+		
Height (inches):	0-1		4-6		
Density:	Low		Medium		
Weed 4 Code:	RANAB		RANAB		
Stage (leaves):	3-4		10+		
Height (inches):	0-1		8-12		
Density:	Low		Medium		
Weed 5 Code:		AMBTR	AMBTR	AMBTR	AMBTR
Stage (leaves):		5-6	5-6	4-6	5-6
Height (inches):		1-3	1-4	1-3	4-6
Density:		Medium	Medium		
Weed 6 Code:		SETFA	SETFA	SETFA	SETFA
Stage (leaves):		2-3	2-3	4-5	5-6
Height (inches):		1-2	1-3	1-3	4-6
Density:		Medium	Medium		

Winter Annual Weed Control in Roundup Ready Corn.

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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>Appl. Equipment:</b>	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
<b>Operating Pressure:</b>	40 PSI	40 PSI	40 PSI	40 PSI	40 PSI
<b>Nozzle Type:</b>	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan
<b>Nozzle Size:</b>	8003	8003	8003	8003	8003
<b>Boom Length, Unit:</b>	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT
<b>Spray Volume, Unit:</b>	20 GPA	20 GPA	20 GPA	20 GPA	20 GPA

**NOTES:**

Winter Annual Weed Control in Roundup Ready Corn.

Project Code: 05-11A-W50 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code										ZEAMX	ALLVI	ALLVI	ALLVI	ALLVI
Crop Code										Yield	Control	Control	Control	Control
Rating Data Type										bu/A	Percent	Percent	Percent	Percent
Rating Unit										10-17-05	12-07-04	04-01-05	04-27-05	05-11-05
Rating Date											21 DA-A	136 DA-A	0 DA-B	14 DA-B
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	0	0	0
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	127	80	100	100	100
2	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A					
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C					
2	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C					
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E					
2	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E					
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	150	80	100	100	100
3	PRINCEP	90	WG	1.0	lb ai/a	17.8	oz/a	FALL	A					
3	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A					
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C					
3	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C					
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E					
3	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E					
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	162	80	100	100	100
4	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A					
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	14DBP	B					
4	AMS	100	DRY	2.0	% w/w	2	%w/w	14DBP	B					
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-1	D					
4	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-1	D					
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	154	80	100	100	100
5	PRINCEP	90	WG	1.0	lb ai/a	17.8	oz/a	FALL	A					
5	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A					
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	14DBP	B					
5	AMS	100	DRY	2.0	% w/w	2	%w/w	14DBP	B					
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-1	D					
5	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-1	D					
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C	162				
6	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C					
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E					
6	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E					
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C	142				
7	PRINCEP	90	WG	2.0	lb ai/a	35.6	oz/a	PRE	C					
7	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C					
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E					
7	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E					
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C	153				
8	AATREX	90	WG	2.0	lb ai/a	35.6	oz/a	PRE	C					
8	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C					
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E					
8	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E					
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C	167				
9	BICEP II MAGNUM	5.5	L	2.89	lb ai/a	2.1	qt/a	PRE	C					
9	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C					
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E					
9	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E					
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	127	90	100	100	100
10	CANOPY XL	56.3	WG			4.5	oz/a	FALL	A					
10	->CLASSIC	25	WG	0.0264	lb ai/a			FALL	A					
10	->AUTHORITY	75	WG	0.132	lb ai/a			FALL	A					
10	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A					
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-1	D					
10	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-1	D					
LSD (P=.05)										40.2	0.0	0.0	0.0	0.0
Replicate F										1.029	0.000	0.000	0.000	0.000
Replicate Prob(F)										0.3773	1.0000	1.0000	1.0000	1.0000
Treatment F										13.168	0.000	0.000	0.000	0.000
Treatment Prob(F)										0.0001	1.0000	1.0000	1.0000	1.0000

Winter Annual Weed Control in Roundup Ready Corn.

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	LAMAM	LAMAM	LAMAM	LAMAM	STEME	STEME	STEME	STEME
						Control	Control	Control	Control	Control	Control	Control	Control
						Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
						12-07-04	04-01-05	04-27-05	05-11-05	12-07-04	04-01-05	04-27-05	05-11-05
						21 DA-A	136 DA-A	0 DA-B	14 DA-B	21 DA-A	136 DA-A	0 DA-B	14 DA-B

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	0	0
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	80	100	100	100	80	100	100	100
2	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A								
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C								
2	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C								
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E								
2	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E								
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	80	100	100	100	80	100	100	100
3	PRINCEP	90	WG	1.0	lb ai/a	17.8	oz/a	FALL	A								
3	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A								
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C								
3	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C								
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E								
3	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E								
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	80	100	100	100	80	100	100	100
4	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A								
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	14DBP	B								
4	AMS	100	DRY	2.0	% w/w	2	%w/w	14DBP	B								
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-1	D								
4	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-1	D								
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	80	100	100	100	80	100	100	100
5	PRINCEP	90	WG	1.0	lb ai/a	17.8	oz/a	FALL	A								
5	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A								
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	14DBP	B								
5	AMS	100	DRY	2.0	% w/w	2	%w/w	14DBP	B								
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-1	D								
5	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-1	D								
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C								
6	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C								
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E								
6	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E								
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C								
7	PRINCEP	90	WG	2.0	lb ai/a	35.6	oz/a	PRE	C								
7	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C								
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E								
7	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E								
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C								
8	AATREX	90	WG	2.0	lb ai/a	35.6	oz/a	PRE	C								
8	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C								
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E								
8	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E								
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C								
9	BICEP II MAGNUM	5.5	L	2.89	lb ai/a	2.1	qt/a	PRE	C								
9	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C								
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E								
9	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E								
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	90	100	100	100	90	100	100	100
10	CANOPY XL	56.3	WG			4.5	oz/a	FALL	A								
10	->CLASSIC	25	WG	0.0264	lb ai/a			FALL	A								
10	->AUTHORITY	75	WG	0.132	lb ai/a			FALL	A								
10	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A								
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-1	D								
10	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-1	D								
LSD (P=.05)										0.0	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	0.000
Replicate Prob(F)										1.0000	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	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Winter Annual Weed Control in Roundup Ready Corn.

Project Code: 05-11A-W50 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code								RANAB	RANAB	RANAB	RANAB		
Crop Code								Control	Control	Control	Control		
Rating Data Type								Percent	Percent	Percent	Percent		
Rating Unit								12-07-04	04-01-05	04-27-05	05-11-05		
Rating Date								21 DA-A	136 DA-A	0 DA-B	14 DA-B		
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	0	0
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	80	100	100	100
2	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A				
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C				
2	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C				
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E				
2	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E				
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	80	100	100	100
3	PRINCEP	90	WG	1.0	lb ai/a	17.8	oz/a	FALL	A				
3	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A				
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C				
3	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C				
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E				
3	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E				
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	80	100	100	100
4	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A				
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	14DBP	B				
4	AMS	100	DRY	2.0	% w/w	2	%w/w	14DBP	B				
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-1	D				
4	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-1	D				
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	80	100	100	100
5	PRINCEP	90	WG	1.0	lb ai/a	17.8	oz/a	FALL	A				
5	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A				
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	14DBP	B				
5	AMS	100	DRY	2.0	% w/w	2	%w/w	14DBP	B				
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-1	D				
5	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-1	D				
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C				
6	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C				
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E				
6	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E				
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C				
7	PRINCEP	90	WG	2.0	lb ai/a	35.6	oz/a	PRE	C				
7	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C				
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E				
7	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E				
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C				
8	AATREX	90	WG	2.0	lb ai/a	35.6	oz/a	PRE	C				
8	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C				
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E				
8	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E				
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C				
9	BICEP II MAGNUM	5.5	L	2.89	lb ai/a	2.1	qt/a	PRE	C				
9	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C				
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E				
9	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E				
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	90	100	100	100
10	CANOPY XL	56.3	WG			4.5	oz/a	FALL	A				
10	->CLASSIC	25	WG	0.0264	lb ai/a			FALL	A				
10	->AUTHORITY	75	WG	0.132	lb ai/a			FALL	A				
10	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A				
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-1	D				
10	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-1	D				
LSD (P=.05)										0.0	0.0	0.0	0.0
Replicate F										0.000	0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000

Winter Annual Weed Control in Roundup Ready Corn.

Project Code: 05-11A-W50 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	04-27-05	05-11-05	05-24-05	06-07-05	07-05-05
Trt-Eval Interval	0 DA-B	14 DA-B	14 DA-C	28 DA-C	56 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
1	NONTREATED									83	83	0	0	0
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	0	0	98	88	100
2	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A					
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C					
2	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C					
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E					
2	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E					
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	57	57	98	60	100
3	PRINCEP	90	WG	1.0	lb ai/a	17.8	oz/a	FALL	A					
3	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A					
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C					
3	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C					
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E					
3	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E					
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	0	90	30	100	97
4	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A					
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	14DBP	B					
4	AMS	100	DRY	2.0	% w/w	2	%w/w	14DBP	B					
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-1	D					
4	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-1	D					
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	27	90	90	100	100
5	PRINCEP	90	WG	1.0	lb ai/a	17.8	oz/a	FALL	A					
5	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A					
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	14DBP	B					
5	AMS	100	DRY	2.0	% w/w	2	%w/w	14DBP	B					
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-1	D					
5	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-1	D					
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C			97	93	100
6	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C					
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E					
6	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E					
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C			93	88	100
7	PRINCEP	90	WG	2.0	lb ai/a	35.6	oz/a	PRE	C					
7	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C					
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E					
7	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E					
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C			100	100	100
8	AATREX	90	WG	2.0	lb ai/a	35.6	oz/a	PRE	C					
8	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C					
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E					
8	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E					
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C			100	96	100
9	BICEP II MAGNUM	5.5	L	2.89	lb ai/a	2.1	qt/a	PRE	C					
9	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C					
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E					
9	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E					
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	98	95	90	100	100
10	CANOPY XL	56.3	WG			4.5	oz/a	FALL	A					
10	->CLASSIC	25	WG	0.0264	lb ai/a			FALL	A					
10	->AUTHORITY	75	WG	0.132	lb ai/a			FALL	A					
10	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A					
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-1	D					
10	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-1	D					
LSD (P=.05)										46.3	36.8	29.0	28.7	3.1
Replicate F										2.089	1.085	0.664	1.298	1.000
Replicate Prob(F)										0.1745	0.3746	0.5271	0.2974	0.3874
Treatment F										8.133	9.822	12.810	10.622	894.333
Treatment Prob(F)										0.0027	0.0013	0.0001	0.0001	0.0001

Winter Annual Weed Control in Roundup Ready Corn.

Project Code: 05-11A-W50 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code								SETFA	SETFA	SETFA	SETFA	SETFA	AMBEL	AMBEL	AMBEL		
Crop Code								Control	Control	Control	Control	Control	Control	Control	Control		
Rating Data Type								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent		
Rating Unit								04-27-05	05-11-05	05-24-05	06-07-05	07-05-05	05-24-05	06-07-05	07-05-05		
Rating Date								0 DA-B	14 DA-B	14 DA-C	28 DA-C	56 DA-C	14 DA-C	28 DA-C	56 DA-C		
Trt-Eval Interval																	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
1	NONTREATED									88	87	0	0	0	0	0	0
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	0	0	99	53	100	98	97	100
2	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A								
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C								
2	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C								
2	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E								
2	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E								
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	78	78	99	43	100	98	100	100
3	PRINCEP	90	WG	1.0	lb ai/a	17.8	oz/a	FALL	A								
3	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A								
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C								
3	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C								
3	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E								
3	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E								
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	0	100	0	100	100	30	100	100
4	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A								
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	14DBP	B								
4	AMS	100	DRY	2.0	% w/w	2	%w/w	14DBP	B								
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-1	D								
4	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-1	D								
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	60	100	70	100	100	90	100	100
5	PRINCEP	90	WG	1.0	lb ai/a	17.8	oz/a	FALL	A								
5	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A								
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	14DBP	B								
5	AMS	100	DRY	2.0	% w/w	2	%w/w	14DBP	B								
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-1	D								
5	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-1	D								
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C			97	57	100	99	100	100
6	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C								
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E								
6	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E								
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C			93	17	100	96	97	100
7	PRINCEP	90	WG	2.0	lb ai/a	35.6	oz/a	PRE	C								
7	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C								
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E								
7	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E								
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C			100	90	100	100	100	100
8	AATREX	90	WG	2.0	lb ai/a	35.6	oz/a	PRE	C								
8	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C								
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E								
8	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E								
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	PRE	C			100	94	100	100	99	100
9	BICEP II MAGNUM	5.5	L	2.89	lb ai/a	2.1	qt/a	PRE	C								
9	AMS	100	DRY	2.0	% w/w	2	%w/w	PRE	C								
9	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-2	E								
9	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-2	E								
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	FALL	A	99	98	73	100	100	95	100	100
10	CANOPY XL	56.3	WG			4.5	oz/a	FALL	A								
10	->CLASSIC	25	WG	0.0264	lb ai/a			FALL	A								
10	->AUTHORITY	75	WG	0.132	lb ai/a			FALL	A								
10	AMS	100	DRY	2.0	% w/w	2	%w/w	FALL	A								
10	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	oz/a	POST-IN-1	D								
10	AMS	100	DRY	2.0	% w/w	2	%w/w	POST-IN-1	D								
LSD (P=.05)										40.7	19.1	15.1	46.0	0.0	29.1	4.6	0.0
Replicate F										1.720	0.924	1.335	0.954	0.000	0.586	0.291	0.000
Replicate Prob(F)										0.2280	0.4283	0.2880	0.4039	1.0000	0.5669	0.7506	1.0000
Treatment F										11.605	41.215	62.227	5.722	0.000	13.136	404.026	0.000
Treatment Prob(F)										0.0007	0.0001	0.0001	0.0008	1.0000	0.0001	0.0001	1.0000

Winter Annual Weed Control in Roundup Ready Corn.

Project Code: 05-11A-W50 Location: Belleville Research Center  
 Investigator: Bryan Young

								AMATA	AMATA	AMATA	ZEAMX	ZEAMX	ZEAMX	
								Control	Control	Control	Injury	Injury	Injury	
								Percent	Percent	Percent	Percent	Percent	Percent	
								05-24-05	06-07-05	07-05-05	05-24-05	06-07-05	07-05-05	
								14 DA-C	28 DA-C	56 DA-C	14 DA-C	28 DA-C	56 DA-C	
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	oz/a	FALL	A	98	92	100	0	0	0
2	AMS	100	DRY	2.0 % w/w	2	%w/w	FALL	A						
2	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	PRE	C						
2	AMS	100	DRY	2.0 % w/w	2	%w/w	PRE	C						
2	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	POST-IN-2	E						
2	AMS	100	DRY	2.0 % w/w	2	%w/w	POST-IN-2	E						
3	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	FALL	A	98	53	100	0	0	0
3	PRINCEP	90	WG	1.0 lb ai/a	17.8	oz/a	FALL	A						
3	AMS	100	DRY	2.0 % w/w	2	%w/w	FALL	A						
3	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	PRE	C						
3	AMS	100	DRY	2.0 % w/w	2	%w/w	PRE	C						
3	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	POST-IN-2	E						
3	AMS	100	DRY	2.0 % w/w	2	%w/w	POST-IN-2	E						
4	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	FALL	A	58	100	99	0	0	0
4	AMS	100	DRY	2.0 % w/w	2	%w/w	FALL	A						
4	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	14DBP	B						
4	AMS	100	DRY	2.0 % w/w	2	%w/w	14DBP	B						
4	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	POST-IN-1	D						
4	AMS	100	DRY	2.0 % w/w	2	%w/w	POST-IN-1	D						
5	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	FALL	A	60	100	100	0	0	0
5	PRINCEP	90	WG	1.0 lb ai/a	17.8	oz/a	FALL	A						
5	AMS	100	DRY	2.0 % w/w	2	%w/w	FALL	A						
5	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	14DBP	B						
5	AMS	100	DRY	2.0 % w/w	2	%w/w	14DBP	B						
5	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	POST-IN-1	D						
5	AMS	100	DRY	2.0 % w/w	2	%w/w	POST-IN-1	D						
6	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	PRE	C	100	60	100	0	0	0
6	AMS	100	DRY	2.0 % w/w	2	%w/w	PRE	C						
6	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	POST-IN-2	E						
6	AMS	100	DRY	2.0 % w/w	2	%w/w	POST-IN-2	E						
7	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	PRE	C	97	77	100	0	0	0
7	PRINCEP	90	WG	2.0 lb ai/a	35.6	oz/a	PRE	C						
7	AMS	100	DRY	2.0 % w/w	2	%w/w	PRE	C						
7	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	POST-IN-2	E						
7	AMS	100	DRY	2.0 % w/w	2	%w/w	POST-IN-2	E						
8	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	PRE	C	100	100	100	0	0	0
8	AATREX	90	WG	2.0 lb ai/a	35.6	oz/a	PRE	C						
8	AMS	100	DRY	2.0 % w/w	2	%w/w	PRE	C						
8	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	POST-IN-2	E						
8	AMS	100	DRY	2.0 % w/w	2	%w/w	POST-IN-2	E						
9	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	PRE	C	100	100	100	0	0	0
9	BICEP II MAGNUM	5.5	L	2.89 lb ai/a	2.1	qt/a	PRE	C						
9	AMS	100	DRY	2.0 % w/w	2	%w/w	PRE	C						
9	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	POST-IN-2	E						
9	AMS	100	DRY	2.0 % w/w	2	%w/w	POST-IN-2	E						
10	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	FALL	A	53	100	100	50	40	22
10	CANOPY XL	56.3	WG		4.5	oz/a	FALL	A						
10	->CLASSIC	25	WG	0.0264 lb ai/a			FALL	A						
10	->AUTHORITY	75	WG	0.132 lb ai/a			FALL	A						
10	AMS	100	DRY	2.0 % w/w	2	%w/w	FALL	A						
10	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3	oz/a	POST-IN-1	D						
10	AMS	100	DRY	2.0 % w/w	2	%w/w	POST-IN-1	D						
LSD (P=.05)									47.4	37.1	0.6	0.0	4.7	3.1
Replicate F									0.794	2.786	1.000	0.000	1.000	1.000
Replicate Prob(F)									0.4673	0.0883	0.3874	1.0000	0.3874	0.3874
Treatment F									4.358	6.844	22467.668	0.000	64.000	42.250
Treatment Prob(F)									0.0038	0.0003	0.0001	1.0000	0.0001	0.0001



Winter Annual Weed Control in Roundup Ready Corn.

Project Code: 05-11A-W50      Location: Belleville Research Center  
Investigator: Bryan Young

Trial Comments

1. Protocol: SIU (RFK) same as 04-8A-N60.
2. Ratings: WC 21 DA "A", April 1, at application "B", all plots 14 DA "B" and "C".
3. Blanket POST application of Roundup WeatherMax 0.75 lbae/A + AMS 2.0% applied 7.5 ft wide to all plots except the nontreated, if needed, per treatment, as often as needed. Record application information for all post applications. Record weed sizes at post application per treatment, if there are differences.
4. DA-A = Days after FALL application. DA-B = Days after 14DBP application. DA-C = Days after PRE application. Ratings at 0 DA-B are at 14DBP application. Ratings at 14 DA-C are prior to any postemergence application. Ratings at 28 DA-C are 12 days after POST-IN-1 application and prior to POST-IN-2 application. Ratings at 56 DA-C are 40 and 27 days after POST-IN-1 and POST-IN-2, respectively.
5. Non-zero ratings in the nontreated plots are a reflection of competition between weeds.
6. Harvested 10-17-05, (2) 30 inch rows by 23 ft.