

Residual Herbicides in Roundup Ready Soybean - 2.

Project Code: 07-2A-MW100 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: 1-23-08

Objective:

Evaluate the benefits of various residual herbicides in Roundup Ready soybean.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
3. AMATA	waterhemp, common	Amaranthus rudis Sauer
4. ABUTH	velvetleaf	Abutilon theophrasti Medicus

Crop 1: GLXMA soybean Variety: Asgrow 4404 RR/STS
 Planting Method: Seeded Planting Date: 6-3-07
 Rate: 75 lb/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: ZEAMX, 2006
 Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 0 LB/A

Soil Name: Weir % OM: 1.8 pH: 6 CEC: 7
 Texture: Silt loam Fert. Level: P1: 90 LB/A, K: 419 LB/A

APPLICATION DESCRIPTION

	A	B	C	D	E	F	G
Application Date:	6-4-07	6-21-07	6-21-07	6-26-07	6-26-07	7-18-07	7-5-07
Time of Day:	6:30	7:30	7:30	10:30	10:30	9:00	9:30
Application Method:	Spray	Spray	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	2-4"W-1	2-4"W-2	V2-3	4-8"W	45DAP	2-4"RG
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	70 F	74 F	74 F	86 F	86 F	80 F	80 F
% Relative Humidity:	92	80	80	92	92	90	92
Wind Velocity, Unit:	0 MPH	0 MPH	0 MPH	2-3 MPH	2-3 MPH	2-3 MPH	1-2 MPH
Dew Presence (Y/N):		Y	Y				
Soil Moisture:	NORMAL	NORMAL	NORMAL	ABONOR	ABONOR	NORMAL	ABONOR
% Cloud Cover:	0	20	20	25	25	0	0

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G
Crop 1 Code, Stage:	GLXMA NA	GLXMA V1-V2	GLXMA V1-V2	GLXMA V2	GLXMA V2	GLXMA R1	GLXMA V4
Height, Unit:	NA NA	6 IN	6 IN	8 IN	8 IN	18-22 IN	12-14 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G
Weed 1 Code:	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA
Stage(leaves):	2-3	2-3	2-3	2-4	2-4	10+	2-5
Height(inches):	2-4	2-4	2-4	3-6	3-6	24+	1-2
Density:	High	High	High	High	High	High	Medium
Weed 2 Code:	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Stage(leaves):	2-6	2-4	2-4	3-6	3-6	10+	2-4
Height(inches):	2-4	2-3	2-3	4-8	4-8	24+	1-2
Density:	Low	Low	Low	Low	Low	Low	Low
Weed 3 Code:	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA
Stage(leaves):	4-8	4-6	4-6	5-13	5-13	10+	6-20
Height(inches):	1-4	1-3	1-3	5-10	5-10	24+	2-8
Density:	High	Medium	Medium	High	High	Medium	Medium
Weed 4 Code:	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Stage(leaves):	2-3	2-3	2-3	2-8	2-8	10+	2-3
Height(inches):	1-4	1-4	1-4	3-9	3-9	24+	1-3
Density:	Low	Low	Low	Medium	Medium	Medium	Medium

APPLICATION EQUIPMENT

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

NOTES:

Residual Herbicides in Roundup Ready Soybean - 2.

Project Code: 07-2A-MW100 Location: Belleville Research Center
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Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA
 Moisture Yield Injury Injury Injury Injury Injury
 Percent bu/A Percent Percent Percent Percent Percent
 10-20-07 10-20-07 6-21-07 7-5-07 7-12-07 7-17-07 8-2-07
 0 DA-C 0 DA-G 21 DA-C 21 DA-E 42 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Moisture Percent	GLXMA Yield bu/A	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	
1	INTRRO	4	L	2.0	lb ai/a	2	qt/a	PRE	A	12.0	b	49	abc	0	a	0	a
1	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E								
1	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E								
2	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A	12.2	b	53	ab	0	a	0	a
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E								
2	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E								
3	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	12.1	b	51	abc	0	a	0	a
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E								
3	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E								
4	VALOR XLT	40.3	WG			3	oz/a	PRE	A	12.2	b	52	ab	0	a	0	a
4	->VALOR SX	51	WG	0.056	lb ai/a			PRE	A								
4	->CLASSIC	25	WG	0.0194	lb ai/a			PRE	A								
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E								
4	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E								
5	AUTHORITY FIRST	70	DF	0.141	lb ai/a	3.22	oz/a	PRE	A	12.2	b	54	ab	0	a	0	a
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E								
5	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E								
6	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	12.1	b	54	ab	0	a	0	a
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E								
6	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E								
7	NONTREATED									12.3	ab	6	d	0	a	0	a
8	KIH-485	85	WG	0.148	lb ai/a	2.79	oz/a	PRE	A	12.3	ab	57	a	0	a	0	a
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E								
8	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E								
9	INTRRO	4	L	2.0	lb ai/a	2	qt/a	PRE	A	12.1	b	51	abc	0	a	0	a
9	SENCOR	75	WG	0.375	lb ai/a	0.5	lb/a	PRE	A								
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E								
9	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E								
10	INTRRO	4	L	2.0	lb ai/a	2	qt/a	PRE	A	12.2	b	51	ab	0	a	0	a
10	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A								
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E								
10	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E								
11	AUTHORITY FIRST	70	DF	0.14	lb ai/a	3.2	oz/a	PRE	A	12.5	ab	49	abc	0	a	0	a
11	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F								
11	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F								
12	AUTHORITY MTZ	45	DF	0.28	lb ai/a	10	oz/a	PRE	A	12.5	ab	45	bc	0	a	0	a
12	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F								
12	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F								
13	F7119	4	SC	0.15	lb ai/a	4.8	fl oz/a	PRE	A	12.8	a	42	c	0	a	0	a
13	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F								
13	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F								
14	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E	12.2	b	54	ab	0	a	0	a
14	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E								
14	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F								
14	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F								
15	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	12.2	b	56	a	0	a	0	a
15	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-2	C								
15	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-2	C								
16	SEQUENCE	5.25	EW	1.64	lb ai/a	40	fl oz/a	PRE	A	12.1	b	51	abc	0	a	0	a
16	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-2	C								
16	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-2	C								
17	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-1	B	11.9	b	50	abc	0	a	0	a
17	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-1	B								
18	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-1	B	12.0	b	56	a	0	a	0	a
18	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-1	B								
18	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-RG	G								
18	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-RG	G								

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

GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Moisture	Yield	Injury	Injury	Injury	Injury	Injury
Percent	bu/A	Percent	Percent	Percent	Percent	Percent
10-20-07	10-20-07	6-21-07	7-5-07	7-12-07	7-17-07	8-2-07
		0 DA-C	0 DA-G	21 DA-C	21 DA-E	42 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Moisture Percent	GLXMA Yield bu/A	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent
19	SEQUENCE	5.25	EW	1.64	lb ai/a	40	fl oz/a	V2-3	D	12.2 b	54 ab		0 a	0 a	0 a	0 a
19	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V2-3	D							
20	PREFIX	5.28	EW	0.99	lb ai/a	1.5	pt/a	PRE	A	12.0 b	55 a	0 a	0 a	0 a	0 a	0 a
20	SEQUENCE	5.25	EW	1.64	lb ai/a	40	fl oz/a	V2-3	D							
20	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V2-3	D							
LSD (P=.05)										0.57	9.0	0.0	0.0	0.0	0.0	0.0
Replicate F										0.316	5.999	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										0.7312	0.0054	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										1.074	11.803	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										0.4117	0.0001	1.0000	1.0000	1.0000	1.0000	1.0000

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

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Project Code: 07-2A-MW100 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	SETFA	SETFA	SETFA	SETFA	SETFA
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-21-07	7-5-07	7-12-07	7-17-07	8-2-07
Trt-Eval Interval	0 DA-C	0 DA-G	21 DA-C	21 DA-E	42 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	6-21-07	7-5-07	7-12-07	7-17-07	8-2-07
1	INTRRO	4	L	2.0	lb ai/a	2	qt/a	PRE	A	67 a	99 a	99 a	98 a	98 a
1	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
1	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
2	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A	58 a	99 a	98 a	98 a	98 a
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
2	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
3	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	10 ef	99 a	99 a	99 a	99 a
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
3	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
4	VALOR XLT	40.3	WG			3	oz/a	PRE	A	0 f	98 a	98 a	98 a	98 a
4	->VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
4	->CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
4	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
5	AUTHORITY FIRST	70	DF	0.141	lb ai/a	3.22	oz/a	PRE	A	0 f	99 a	99 a	99 a	99 a
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
5	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
6	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	28 cd	99 a	99 a	99 a	98 a
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
6	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
7	NONTREATED									0 f	0 c	0 d	0 d	0 c
8	KIH-485	85	WG	0.148	lb ai/a	2.79	oz/a	PRE	A	7 ef	99 a	99 a	98 a	98 a
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
8	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
9	INTRRO	4	L	2.0	lb ai/a	2	qt/a	PRE	A	68 a	99 a	99 a	98 a	98 a
9	SENCOR	75	WG	0.375	lb ai/a	0.5	lb/a	PRE	A					
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
9	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
10	INTRRO	4	L	2.0	lb ai/a	2	qt/a	PRE	A	67 a	99 a	99 a	99 a	99 a
10	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A					
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
10	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
11	AUTHORITY FIRST	70	DF	0.14	lb ai/a	3.2	oz/a	PRE	A	17 de	7 b	32 c	15 c	96 a
11	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F					
11	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F					
12	AUTHORITY MTZ	45	DF	0.28	lb ai/a	10	oz/a	PRE	A	13 e	0 c	0 d	0 d	96 a
12	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F					
12	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F					
13	F7119	4	SC	0.15	lb ai/a	4.8	fl oz/a	PRE	A	0 f	0 c	0 d	0 d	96 a
13	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F					
13	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F					
14	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E		99 a	98 a	98 a	99 a
14	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
14	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F					
14	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F					
15	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	38 bc	98 a	98 a	98 a	98 a
15	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-2	C					
15	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-2	C					
16	SEQUENCE	5.25	EW	1.64	lb ai/a	40	fl oz/a	PRE	A	40 bc	98 a	98 a	98 a	98 a
16	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-2	C					
16	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-2	C					
17	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-1	B		97 a	91 b	91 b	85 b
17	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-1	B					
18	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-1	B		98 a	99 a	98 a	98 a
18	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-1	B					
18	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-RG	G					
18	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-RG	G					

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Weed Code	SETFA	SETFA	SETFA	SETFA	SETFA
Crop Code	Control	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-21-07	7-5-07	7-12-07	7-17-07	8-2-07
Rating Date	0 DA-C	0 DA-G	21 DA-C	21 DA-E	42 DA-C
Trt-Eval Interval					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
19	SEQUENCE	5.25	EW	1.64	lb ai/a	40	fl oz/a	V2-3	D			99 a	99 a	99 a
19	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V2-3	D					
20	PREFIX	5.28	EW	0.99	lb ai/a	1.5	pt/a	PRE	A	45 b		99 a	98 a	99 a
20	SEQUENCE	5.25	EW	1.64	lb ai/a	40	fl oz/a	V2-3	D					
20	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V2-3	D					
LSD (P=.05)										13.2	4.3	6.6	4.1	3.9
Replicate F										2.522	1.295	0.581	0.567	0.409
Replicate Prob(F)										0.0972	0.2858	0.5643	0.5720	0.6674
Treatment F										32.907	693.542	266.905	738.479	255.385
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

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

Residual Herbicides in Roundup Ready Soybean - 2.

Project Code: 07-2A-MW100 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-21-07	7-5-07	7-12-07	7-17-07	8-2-07
Trt-Eval Interval	0 DA-C	0 DA-G	21 DA-C	21 DA-E	42 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	10 DA-C	0 DA-G	21 DA-C	21 DA-E	42 DA-C
1	INTRRO	4	L	2.0	lb ai/a	2	qt/a	PRE	A	10 cd	99 a	97 bcd	96 cd	92 bc
1	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
1	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
2	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A	3 d	97 a	96 de	95 d	94 abc
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
2	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
3	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	37 a	99 a	99 a	99 a	99 a
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
3	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
4	VALOR XLT	40.3	WG			3	oz/a	PRE	A	30 ab	99 a	98 ab	98 ab	98 a
4	->VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
4	->CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
4	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
5	AUTHORITY FIRST	70	DF	0.141	lb ai/a	3.22	oz/a	PRE	A	20 bc	99 a	99 a	99 ab	99 a
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
5	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
6	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	3 d	99 a	99 a	99 a	99 a
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
6	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
7	NONTREATED									0 d	0 c	0 f	0 f	0 f
8	KIH-485	85	WG	0.148	lb ai/a	2.79	oz/a	PRE	A	17 c	99 a	99 a	99 ab	99 a
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
8	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
9	INTRRO	4	L	2.0	lb ai/a	2	qt/a	PRE	A	30 ab	99 a	99 a	98 ab	98 a
9	SENCOR	75	WG	0.375	lb ai/a	0.5	lb/a	PRE	A					
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
9	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
10	INTRRO	4	L	2.0	lb ai/a	2	qt/a	PRE	A	10 cd	99 a	98 abc	98 ab	98 a
10	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A					
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
10	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
11	AUTHORITY FIRST	70	DF	0.14	lb ai/a	3.2	oz/a	PRE	A	10 cd	0 c	0 f	0 f	85 de
11	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F					
11	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F					
12	AUTHORITY MTZ	45	DF	0.28	lb ai/a	10	oz/a	PRE	A	17 c	7 b	0 f	0 f	92 bc
12	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F					
12	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F					
13	F7119	4	SC	0.15	lb ai/a	4.8	fl oz/a	PRE	A	10 cd	0 c	0 f	0 f	90 cd
13	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F					
13	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F					
14	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E		98 a	98 abc	97 bc	99 a
14	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
14	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F					
14	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F					
15	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	0 d	99 a	99 a	99 a	99 a
15	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-2	C					
15	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-2	C					
16	SEQUENCE	5.25	EW	1.64	lb ai/a	40	fl oz/a	PRE	A	0 d	98 a	96 cd	95 d	90 cd
16	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-2	C					
16	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-2	C					
17	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-1	B		98 a	94 e	93 e	83 e
17	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-1	B					
18	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-1	B		98 a	99 a	99 a	99 a
18	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-1	B					
18	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-RG	G					
18	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-RG	G					

Residual Herbicides in Roundup Ready Soybean - 2.

Project Code: 07-2A-MW100 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-21-07	7-5-07	7-12-07	7-17-07	8-2-07
Trt-Eval Interval	0 DA-C	0 DA-G	21 DA-C	21 DA-E	42 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
19	SEQUENCE	5.25	EW	1.64	lb ai/a	40	fl oz/a	V2-3	D					
19	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V2-3	D		99 a	99 ab	97 bc	96 ab
20	PREFIX	5.28	EW	0.99	lb ai/a	1.5	pt/a	PRE	A	0 d	99 a	99 a	99 a	99 a
20	SEQUENCE	5.25	EW	1.64	lb ai/a	40	fl oz/a	V2-3	D					
20	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V2-3	D					
LSD (P=.05)										12.3	2.3	1.9	1.6	5.8
Replicate F										0.588	0.783	1.241	0.291	1.807
Replicate Prob(F)										0.5615	0.4644	0.3006	0.7490	0.1779
Treatment F										7.797	2456.417	3508.761	5257.162	115.066
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

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

Residual Herbicides in Roundup Ready Soybean - 2.

Project Code: 07-2A-MW100 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	AMATA	AMATA	AMATA	AMATA	AMATA
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-21-07	7-5-07	7-12-07	7-17-07	8-2-07
Trt-Eval Interval	0 DA-C	0 DA-G	21 DA-C	21 DA-E	42 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code										
1	INTRRO	4	L	2.0	lb ai/a	2	qt/a	PRE	A	77	abc	99	a	99	a	98	ab	97	a
1	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E										
1	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E										
2	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A	92	ab	99	a	98	a	97	ab	98	a
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E										
2	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E										
3	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	68	cd	99	a	98	a	98	ab	98	a
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E										
3	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E										
4	VALOR XLT	40.3	WG			3	oz/a	PRE	A	57	def	99	a	99	a	98	a	99	a
4	->VALOR SX	51	WG	0.056	lb ai/a			PRE	A										
4	->CLASSIC	25	WG	0.0194	lb ai/a			PRE	A										
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E										
4	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E										
5	AUTHORITY FIRST	70	DF	0.141	lb ai/a	3.22	oz/a	PRE	A	57	def	99	a	99	a	99	a	99	a
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E										
5	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E										
6	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	60	cde	99	a	98	a	98	a	98	a
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E										
6	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E										
7	NONTREATED									0	i	0	f	0	d	0	f	0	e
8	KIH-485	85	WG	0.148	lb ai/a	2.79	oz/a	PRE	A	45	efg	99	a	99	a	98	a	98	a
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E										
8	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E										
9	INTRRO	4	L	2.0	lb ai/a	2	qt/a	PRE	A	93	a	99	a	99	a	99	a	99	a
9	SENCOR	75	WG	0.375	lb ai/a	0.5	lb/a	PRE	A										
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E										
9	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E										
10	INTRRO	4	L	2.0	lb ai/a	2	qt/a	PRE	A	75	bc	99	a	99	a	97	ab	96	a
10	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A										
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E										
10	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E										
11	AUTHORITY FIRST	70	DF	0.14	lb ai/a	3.2	oz/a	PRE	A	20	h	7	e	8	c	3	e	85	b
11	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F										
11	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F										
12	AUTHORITY MTZ	45	DF	0.28	lb ai/a	10	oz/a	PRE	A	28	gh	13	d	0	d	0	f	82	bc
12	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F										
12	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F										
13	F7119	4	SC	0.15	lb ai/a	4.8	fl oz/a	PRE	A	30	gh	10	de	0	d	0	f	80	c
13	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F										
13	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F										
14	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E			98	ab	98	a	95	bc	99	a
14	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E										
14	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F										
14	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F										
15	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	42	fg	99	a	98	a	97	ab	97	a
15	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-2	C										
15	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-2	C										
16	SEQUENCE	5.25	EW	1.64	lb ai/a	40	fl oz/a	PRE	A	30	gh	97	abc	96	a	92	c	86	b
16	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-2	C										
16	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-2	C										
17	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-1	B			91	c	90	b	83	d	70	d
17	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-1	B										
18	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-1	B			92	bc	99	a	98	a	98	a
18	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-1	B										
18	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-RG	G										
18	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-RG	G										

Residual Herbicides in Roundup Ready Soybean - 2.

Project Code: 07-2A-MW100 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	AMATA	AMATA	AMATA	AMATA	AMATA
Crop Code	Control	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-21-07	7-5-07	7-12-07	7-17-07	8-2-07
Rating Date	0 DA-C	0 DA-G	21 DA-C	21 DA-E	42 DA-C
Trt-Eval Interval					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
19	SEQUENCE	5.25	EW	1.64	lb ai/a	40	fl oz/a	V2-3	D		98 ab	99 a	98 ab	96 a
19	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V2-3	D					
20	PREFIX	5.28	EW	0.99	lb ai/a	1.5	pt/a	PRE	A	60 cde	99 a	98 a	98 a	98 a
20	SEQUENCE	5.25	EW	1.64	lb ai/a	40	fl oz/a	V2-3	D					
20	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V2-3	D					
LSD (P=.05)										17.8	6.5	5.5	3.1	5.0
Replicate F										0.414	0.929	1.501	2.041	3.492
Replicate Prob(F)										0.6650	0.4037	0.2358	0.1439	0.0405
Treatment F										17.919	266.468	416.196	1357.723	166.870
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

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

Residual Herbicides in Roundup Ready Soybean - 2.

Project Code: 07-2A-MW100 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-21-07	7-5-07	7-12-07	7-17-07	8-2-07
Trt-Eval Interval	0 DA-C	0 DA-G	21 DA-C	21 DA-E	42 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	INTRRO	4	L	2.0	lb ai/a	2	qt/a	PRE	A	0 e	94 ab	97 abc	93 abc	85 b
1	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
1	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
2	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A	25 ab	96 ab	98 ab	96 ab	90 ab
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
2	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
3	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	35 a	99 a	99 a	99 a	99 a
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
3	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
4	VALOR XLT	40.3	WG			3	oz/a	PRE	A	23 abc	98 ab	99 a	99 a	99 a
4	->VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
4	->CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
4	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
5	AUTHORITY FIRST	70	DF	0.141	lb ai/a	3.22	oz/a	PRE	A	20 bc	99 a	99 a	99 a	99 a
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
5	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
6	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	5 de	97 ab	98 ab	96 ab	95 ab
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
6	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
7	NONTREATED									0 e	0 e	0 e	0 f	0 d
8	KIH-485	85	WG	0.148	lb ai/a	2.79	oz/a	PRE	A	13 b-e	99 a	99 a	99 a	99 a
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
8	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
9	INTRRO	4	L	2.0	lb ai/a	2	qt/a	PRE	A	10 cde	97 ab	98 ab	97 ab	98 a
9	SENCOR	75	WG	0.375	lb ai/a	0.5	lb/a	PRE	A					
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
9	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
10	INTRRO	4	L	2.0	lb ai/a	2	qt/a	PRE	A	12 b-e	97 ab	99 a	97 ab	99 a
10	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A					
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E					
10	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
11	AUTHORITY FIRST	70	DF	0.14	lb ai/a	3.2	oz/a	PRE	A	23 abc	10 d	32 d	20 e	72 c
11	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F					
11	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F					
12	AUTHORITY MTZ	45	DF	0.28	lb ai/a	10	oz/a	PRE	A	18 bcd	5 de	0 e	0 f	68 c
12	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F					
12	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F					
13	F7119	4	SC	0.15	lb ai/a	4.8	fl oz/a	PRE	A	17 bcd	7 d	0 e	0 f	68 c
13	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F					
13	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F					
14	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-8"W	E		94 ab	98 ab	90 bc	99 a
14	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4-8"W	E					
14	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	45 DAP	F					
14	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	45 DAP	F					
15	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	0 e	95 ab	98 ab	94 ab	91 ab
15	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-2	C					
15	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-2	C					
16	SEQUENCE	5.25	EW	1.64	lb ai/a	40	fl oz/a	PRE	A	0 e	95 ab	95 bc	87 cd	66 c
16	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-2	C					
16	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-2	C					
17	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-1	B		85 c	93 c	82 d	65 c
17	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-1	B					
18	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-1	B		85 c	99 a	99 a	99 a
18	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-1	B					
18	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W-RG	G					
18	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	2-4"W-RG	G					

Residual Herbicides in Roundup Ready Soybean - 2.

Project Code: 07-2A-MW100 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-21-07	7-5-07	7-12-07	7-17-07	8-2-07
Trt-Eval Interval	0 DA-C	0 DA-G	21 DA-C	21 DA-E	42 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
19	SEQUENCE	5.25	EW	1.64	lb ai/a	40	fl oz/a	V2-3	D			92 b	97 ab	92 abc
19	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V2-3	D					89 ab
20	PREFIX	5.28	EW	0.99	lb ai/a	1.5	pt/a	PRE	A	0 e		96 ab	98 ab	93 abc
20	SEQUENCE	5.25	EW	1.64	lb ai/a	40	fl oz/a	V2-3	D					96 ab
20	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	V2-3	D					
LSD (P=.05)										13.9	6.7	4.0	7.4	11.1
Replicate F										0.097	2.774	5.655	4.376	3.873
Replicate Prob(F)										0.9075	0.0751	0.0071	0.0195	0.0295
Treatment F										5.320	251.415	704.942	207.392	36.776
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

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

Trial Comments

1. Protocol: Monsanto (30-13), Kumiai, FMC, Syngenta (FM059X).
2. Ratings: CI/WC prior to POST (C, E +F); CI/WC at 14 da F; CI/WC 21 + 42 da C and E.
3. Yield.
4. DA-C = Days after 2-4"W-2 application.
 Ratings on 6-21-07 at 0 DA-C were 0 and 5 days prior to the 2-4"W-2 (C) and V2-3 (E) applications, respectively.
 DA-G = Days after 2-4"RG application.
 Ratings on 7-5-07 at 0 DA-G were also prior to the 45DAP (F) application, 14 days after the 2-4"W-1 (B) and 2-4"W-2 (C) applications, and 9 days after the V2-3 (D) and 4-8"W (E) applications.
 Ratings on 7-12-07 at 21 DA-C were also prior to the 45DAP (F) application, 21 days after the 2-4"W-1 (B) application, 16 days after the V2-3 (D) and 4-8"W (E) applications, and 7 days after the 2-4"RG (G) application.
 Ratings on 7-17-07 at 21 DA-E were also 1 day prior to the 45DAP (F) application, 26 days after the 2-4"W-1 (B) and 2-4"W-2 (C) applications, 21 days after the V2-3 (D) application, and 14 days after the 2-4"RG (G) application (those treatments with a 2-4"RG (G) application were rated on 7-19-07).
 Ratings on 8-2-07 at 42 DA-C were also 15 days after the 45DAP (F) application, 42 days after the 2-4"W-1 (B) application, 37 days after the V2-3 (D) application, 28 days after the 2-4"RG (G) application, and 42 days after the 4-8"W (E) application (those treatments with a 4-8"W (E) application were rated on 8-7-07).
5. Following the PRE application only 0.08 inches of rainfall was recorded during the next 20 days.
6. Harvested 10-19-07, (2) 30 inch rows by 25 feet.