

Residual Herbicides in Roundup Ready Soybeans - 1.

Project Code: 07-50W-MN80 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:

Assess the strengths and weaknesses of various foundation herbicides applied preemergence in Roundup Ready soybean.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. AMBTR	ragweed, giant	Ambrosia trifida L.
3. ABUTH	velvetleaf	Abutilon theophrasti Medicus
4. AMATA	waterhemp, common	Amaranthus rudis Sauer
5. CYPES	nutsedge, yellow	Cyperus esculentus L.
6. IPOHE	morningglory, ivyleaf	Ipomoea hederacea (L.) Jacq.

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: 27 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 100 LB/A

Soil Name: Weir % OM: 2.2 pH: 6.5 CEC: 11
Texture: Silt loam Fert. Level: P1: 97 LB/A, K: 296 LB/A

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	6-4-07	6-21-07	6-27-07	7-9-07
Time of Day:	7:30	6:00	14:00	10:00
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PRE	2-4"W	4-6"W	4-6"RG
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	70 F	74 F	86 F	89 F
% Relative Humidity:	92	80	88	76
Wind Velocity, Unit:	5-7 MPH	0 MPH	3-5 MPH	3-4 MPH
Dew Presence (Y/N):	N	Y	N	N
Soil Moisture:	NORMAL	NORMAL	NORMAL	NORMAL
% Cloud Cover:	0	0	0	0

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	GLXMA NA	GLXMA V1-V2	GLXMA V2	GLXMA V5
Height, Unit:	NA NA	3-5 IN	4-6 IN	15 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code:	SETFA	SETFA	SETFA	SETFA
Stage(leaves):	2-4	6-8	2-3	2-3
Height(inches):	2-4	4-6	1-2	1-2
Density:	Medium	Medium	Low	Low
Weed 2 Code:	AMBTR	AMBTR	AMBTR	AMBTR
Stage(leaves):	2-10	4-10	2-4	2-4
Height(inches):	1-5	6-8	2-5	2-5
Density:	Medium	Medium	Medium	Medium
Weed 3 Code:	ABUTH	ABUTH	ABUTH	ABUTH
Stage(leaves):	3-5	4-6	Coty-3	Coty-3
Height(inches):	1-3	2-4	1-3	1-3
Density:	Low	Low	Low	Low
Weed 4 Code:	AMATA	AMATA	AMATA	AMATA
Stage(leaves):	4-10	6-10	4-8	4-8
Height(inches):	1-3	2-6	1-2	1-2
Density:	Medium	Medium	Medium	Medium
Weed 5 Code:	CYPES	CYPES	CYPES	CYPES
Stage(leaves):	3-10	6-10	4-8	4-8
Height(inches):	3-5	4-6	2-4	2-4
Density:	Medium	Medium	Medium	Medium
Weed 6 Code:	IPOHE	IPOHE	IPOHE	IPOHE
Stage(leaves):	3-6	4-10	Coty-4	Coty-4
Height(inches):	1-3	2-4	1-4	1-4
Density:	Medium	Medium	High	High

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:	XR 8002	XR 8002	XR 8002	XR 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:

Residual Herbicides in Roundup Ready Soybeans - 1.

Project Code: 07-50W-MN80 Location: Belleville Research Center
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Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

GLXMA Moisture Percent	GLXMA Yield bu/A	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent
10-21-07	10-21-07	6-17-07 14 DAP	6-21-07 0 DA-B	6-28-07 7 DA-B	7-6-07 -3 DA-D	7-19-07 28 DA-B	8-16-07 56 DA-B

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	NONTREATED									11.8 a	19 e	0 a	0 a	0 a	0 a	0 a
2	VALOR XLT	40.3	WG			3 oz/a		PRE	A	10.9 b	52 abc	0 a	0 a	0 a	0 a	0 a
2	->VALOR SX	51	WG	0.056	lb ai/a			PRE	A							
2	->CLASSIC	25	WG	0.0194	lb ai/a			PRE	A							
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"	W B							
2	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"	W B							
3	VALOR XLT	40.3	WG			3.5 oz/a		PRE	A	11.0 b	52 abc	0 a	0 a	0 a	0 a	0 a
3	->VALOR SX	51	WG	0.0653	lb ai/a			PRE	A							
3	->CLASSIC	25	WG	0.0227	lb ai/a			PRE	A							
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"	W B							
3	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"	W B							
4	VALOR XLT	40.3	WG			4 oz/a		PRE	A	10.9 b	54 ab	0 a	0 a	0 a	0 a	0 a
4	->VALOR SX	51	WG	0.075	lb ai/a			PRE	A							
4	->CLASSIC	25	WG	0.0258	lb ai/a			PRE	A							
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"	W B							
4	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"	W B							
5	CANOPY	75	WG	0.14	lb ai/a	3 oz/a		PRE	A	10.8 b	46 cd	0 a	0 a	0 a	0 a	0 a
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"	W B							
5	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"	W B							
6	GANGSTER FR	84	WG	0.0157	lb ai/a	0.3 oz/a		PRE	A	10.9 b	57 a	0 a	0 a	0 a	0 a	0 a
6	GANGSTER V	51	WG	0.048	lb ai/a	1.5 oz/a		PRE	A							
6	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	0.75 qt/a		2-4"	W B							
6	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"	W B							
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"	W B	10.8 b	55 ab	0 a		0 a	0 a	0 a
7	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"	W B							
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"	RG D							
7	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	4-6"	RG D							
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"	W B	11.0 b	40 d	0 a		0 a	0 a	0 a
8	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"	W B							
9	SONIC	70	WG	0.131	lb ai/a	3 oz/a		PRE	A	10.8 b	54 ab	0 a	0 a	0 a	0 a	0 a
9	DURANGO	4	SL	0.75	lb ai/a	24	fl oz/a	4-6"	W C							
9	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"	W C							
10	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3 oz/a		PRE	A	11.1 b	53 ab	0 a	0 a	0 a	0 a	0 a
10	DURANGO	4	SL	0.75	lb ai/a	24	fl oz/a	4-6"	W C							
10	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"	W C							
11	GF-1280	4	SL	0.75	lb ai/a	24	fl oz/a	2-4"	W B	10.8 b	57 a	0 a		0 a	0 a	0 a
11	AMS	100	DRY	2.0	% w/w	2	% w/w	2-4"	W B							
11	GF-1280	4	SL	0.75	lb ai/a	24	fl oz/a	4-6"	RG D							
11	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"	RG D							
12	DURANGO	4	SL	0.75	lb ai/a	24	fl oz/a	2-4"	W B	10.8 b	52 abc	0 a		0 a	0 a	0 a
12	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3 oz/a		2-4"	W B							
12	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"	W B							
13	DPX-QER54	41.3	WG			3.5 oz/a		PRE	A	11.0 b	54 ab	0 a	0 a	0 a	0 a	0 a
13	->CLASSIC	25	WG	0.02	lb ai/a			PRE	A							
13	->HARMONY GT XP	50	SG	0.00643	lb ai/a			PRE	A							
13	->VALOR SX	51	WG	0.0635	lb ai/a			PRE	A							
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"	W B							
13	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"	W B							
14	PREFIX	5.28	EW	1.32	lb ai/a	2 pt/a		PRE	A	11.1 b	52 abc	0 a	0 a	0 a	0 a	0 a
14	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"	W B							
14	AMS	100	DRY	2.0	% w/w	2	% w/w	2-4"	W B							
15	SCEPTER	70	WG	0.092	lb ai/a	2.1 oz/a		PRE	A	10.9 b	53 ab	0 a	0 a	0 a	0 a	0 a
15	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5 pt/a		PRE	A							
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"	W B							
15	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"	W B							
16	INTRRO	4	L	2	lb ai/a	2 qt/a		PRE	A	10.7 b	50 bc	0 a	0 a	0 a	0 a	0 a
16	SCEPTER	70	WG	0.092	lb ai/a	2.1 oz/a		PRE	A							
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"	W B							
16	AMS	100	DRY	2.0	% w/w	2.0	% w/w	2-4"	W B							

LSD (P=.05)		0.54	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F		2.720	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)		0.0821	0.3798	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F		1.781	15.798	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)		0.0870	0.0001	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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

Residual Herbicides in Roundup Ready Soybeans - 1.

Project Code: 07-50W-MN80 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	SETFA	SETFA	SETFA	SETFA	SETFA
Crop Code					
Rating Data Type					
Rating Unit	Control	Control	Control	Control	Control
Rating Date	6-21-07	6-28-07	7-6-07	7-19-07	8-16-07
Trt-Eval Interval	0 DA-B	7 DA-B	-3 DA-D	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	NONTREATED									0 d	0 b	0 c	0 d	0 d
2	VALOR XLT	40.3	WG			3 oz/a		PRE	A	78 abc	99 a	99 a	98 ab	98 ab
2	->VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
2	->CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
2	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
3	VALOR XLT	40.3	WG			3.5 oz/a		PRE	A	78 abc	99 a	99 a	99 ab	99 ab
3	->VALOR SX	51	WG	0.0653	lb ai/a			PRE	A					
3	->CLASSIC	25	WG	0.0227	lb ai/a			PRE	A					
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
3	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
4	VALOR XLT	40.3	WG			4 oz/a		PRE	A	87 a	99 a	99 a	98 ab	98 ab
4	->VALOR SX	51	WG	0.075	lb ai/a			PRE	A					
4	->CLASSIC	25	WG	0.0258	lb ai/a			PRE	A					
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
4	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
5	CANOPY	75	WG	0.14	lb ai/a	3 oz/a		PRE	A	80 ab	99 a	99 a	96 b	96 ab
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
5	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
6	GANGSTER FR	84	WG	0.0157	lb ai/a	0.3 oz/a		PRE	A	75 bc	99 a	99 a	98 ab	97 ab
6	GANGSTER V	51	WG	0.048	lb ai/a	1.5 oz/a		PRE	A					
6	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	0.75 qt/a		2-4"W	B					
6	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B		99 a	99 ab	99 ab	99 ab
7	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		4-6"RG	D					
7	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		4-6"RG	D					
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B		99 a	98 b	91 c	89 c
8	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
9	SONIC	70	WG	0.131	lb ai/a	3 oz/a		PRE	A	80 ab	0 b	99 a	98 ab	98 ab
9	DURANGO	4	SL	0.75	lb ai/a	24 fl oz/a		4-6"W	C					
9	AMS	100	DRY	2.0	% w/w	2 % w/w		4-6"W	C					
10	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3 oz/a		PRE	A	68 c	0 b	99 a	97 ab	97 ab
10	DURANGO	4	SL	0.75	lb ai/a	24 fl oz/a		4-6"W	C					
10	AMS	100	DRY	2.0	% w/w	2 % w/w		4-6"W	C					
11	GF-1280	4	SL	0.75	lb ai/a	24 fl oz/a		2-4"W	B		99 a	99 ab	99 a	99 a
11	AMS	100	DRY	2.0	% w/w	2 % w/w		2-4"W	B					
11	GF-1280	4	SL	0.75	lb ai/a	24 fl oz/a		4-6"RG	D					
11	AMS	100	DRY	2.0	% w/w	2 % w/w		4-6"RG	D					
12	DURANGO	4	SL	0.75	lb ai/a	24 fl oz/a		2-4"W	B		99 a	99 ab	96 ab	96 b
12	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3 oz/a		2-4"W	B					
12	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
13	DPX-QER54	41.3	WG			3.5 oz/a		PRE	A	80 ab	99 a	99 a	98 ab	98 ab
13	->CLASSIC	25	WG	0.02	lb ai/a			PRE	A					
13	->HARMONY GT XP	50	SG	0.00643	lb ai/a			PRE	A					
13	->VALOR SX	51	WG	0.0635	lb ai/a			PRE	A					
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
13	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
14	PREFIX	5.28	EW	1.32	lb ai/a	2 pt/a		PRE	A	80 ab	99 a	99 a	99 a	99 a
14	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24 fl oz/a		2-4"W	B					
14	AMS	100	DRY	2.0	% w/w	2 % w/w		2-4"W	B					
15	SCEPTER	70	WG	0.092	lb ai/a	2.1 oz/a		PRE	A	88 a	99 a	99 a	98 ab	98 ab
15	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5 pt/a		PRE	A					
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
15	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
16	INTRRO	4	L	2	lb ai/a	2 qt/a		PRE	A	85 ab	99 a	99 a	99 a	99 a
16	SCEPTER	70	WG	0.092	lb ai/a	2.1 oz/a		PRE	A					
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
16	AMS	100	DRY	2.0	% w/w	2.0 % w/w		2-4"W	B					

LSD (P=.05)	10.0	0.0	0.6	2.7	2.7
Replicate F	4.459	0.000	1.000	0.959	1.254
Replicate Prob(F)	0.0237	1.0000	0.3798	0.3948	0.2998
Treatment F	48.043	0.000	12573.829	666.351	661.964
Treatment Prob(F)	0.0001	1.0000	0.0001	0.0001	0.0001

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

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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	6-21-07	6-28-07	7-6-07	7-19-07	8-16-07
Trt-Eval Interval	0 DA-B	7 DA-B	-3 DA-D	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	NONTREATED									0 f	0 d	0 c	0 d	0 g
2	VALOR XLT	40.3	WG			3 oz/a		PRE	A	50 de	98 a	97 a	95 a	84 d
2	->VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
2	->CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
2	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
3	VALOR XLT	40.3	WG			3.5 oz/a		PRE	A	57 cd	98 a	97 a	96 a	85 cd
3	->VALOR SX	51	WG	0.0653	lb ai/a			PRE	A					
3	->CLASSIC	25	WG	0.0227	lb ai/a			PRE	A					
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
3	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
4	VALOR XLT	40.3	WG			4 oz/a		PRE	A	72 abc	98 a	97 a	97 a	91 a-d
4	->VALOR SX	51	WG	0.075	lb ai/a			PRE	A					
4	->CLASSIC	25	WG	0.0258	lb ai/a			PRE	A					
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
4	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
5	CANOPY	75	WG	0.14	lb ai/a	3 oz/a		PRE	A	37 e	97 a	96 a	82 b	72 e
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
5	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
6	GANGSTER FR	84	WG	0.0157	lb ai/a	0.3 oz/a		PRE	A	72 abc	98 a	98 a	97 a	92 a-d
6	GANGSTER V	51	WG	0.048	lb ai/a	1.5 oz/a		PRE	A					
6	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	0.75 qt/a		2-4"W	B					
6	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B		98 a	96 a	98 a	98 a
7	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		4-6"RG	D					
7	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		4-6"RG	D					
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B		97 a	95 a	68 c	57 f
8	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
9	SONIC	70	WG	0.131	lb ai/a	3 oz/a		PRE	A	82 ab	33 b	91 b	97 a	94 ab
9	DURANGO	4	SL	0.75	lb ai/a	24 fl oz/a		4-6"W	C					
9	AMS	100	DRY	2.0	% w/w	2 % w/w		4-6"W	C					
10	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3 oz/a		PRE	A	75 ab	27 c	95 a	97 a	95 ab
10	DURANGO	4	SL	0.75	lb ai/a	24 fl oz/a		4-6"W	C					
10	AMS	100	DRY	2.0	% w/w	2 % w/w		4-6"W	C					
11	GF-1280	4	SL	0.75	lb ai/a	24 fl oz/a		2-4"W	B		97 a	96 a	99 a	99 a
11	AMS	100	DRY	2.0	% w/w	2 % w/w		2-4"W	B					
11	GF-1280	4	SL	0.75	lb ai/a	24 fl oz/a		4-6"RG	D					
11	AMS	100	DRY	2.0	% w/w	2 % w/w		4-6"RG	D					
12	DURANGO	4	SL	0.75	lb ai/a	24 fl oz/a		2-4"W	B		98 a	97 a	96 a	92 a-d
12	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3 oz/a		2-4"W	B					
12	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
13	DPX-QER54	41.3	WG			3.5 oz/a		PRE	A	78 ab	98 a	97 a	96 a	91 a-d
13	->CLASSIC	25	WG	0.02	lb ai/a			PRE	A					
13	->HARMONY GT XP	50	SG	0.00643	lb ai/a			PRE	A					
13	->VALOR SX	51	WG	0.0635	lb ai/a			PRE	A					
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
13	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
14	PREFIX	5.28	EW	1.32	lb ai/a	2 pt/a		PRE	A	84 a	97 a	97 a	96 a	93 abc
14	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24 fl oz/a		2-4"W	B					
14	AMS	100	DRY	2.0	% w/w	2 % w/w		2-4"W	B					
15	SCEPTER	70	WG	0.092	lb ai/a	2.1 oz/a		PRE	A	78 ab	98 a	97 a	97 a	92 abc
15	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5 pt/a		PRE	A					
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
15	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
16	INTRRO	4	L	2	lb ai/a	2 qt/a		PRE	A	67 bc	98 a	97 a	95 a	88 bcd
16	SCEPTER	70	WG	0.092	lb ai/a	2.1 oz/a		PRE	A					
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
16	AMS	100	DRY	2.0	% w/w	2.0 % w/w		2-4"W	B					

LSD (P=.05)	16.4	2.9	3.1	5.9	7.8
Replicate F	1.342	0.814	0.806	1.305	0.589
Replicate Prob(F)	0.2820	0.4525	0.4561	0.2860	0.5611
Treatment F	18.763	1024.830	508.223	148.472	81.043
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 Soybeans - 1.

Project Code: 07-50W-MN80 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	6-28-07	7-6-07	7-19-07	8-16-07
Trt-Eval Interval	0 DA-B	7 DA-B	-3 DA-D	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	0 e	0 d	0 f	0 d	0 d
1	NONTREATED													
2	VALOR XLT	40.3	WG			3	oz/a	PRE	A	73 d	98 a	99 ab	98 a	98 a
2	->VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
2	->CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B					
2	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
3	VALOR XLT	40.3	WG			3.5	oz/a	PRE	A	77 cd	98 a	99 a	99 a	99 a
3	->VALOR SX	51	WG	0.0653	lb ai/a			PRE	A					
3	->CLASSIC	25	WG	0.0227	lb ai/a			PRE	A					
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B					
3	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
4	VALOR XLT	40.3	WG			4	oz/a	PRE	A	81 a-d	98 a	99 a	98 a	99 a
4	->VALOR SX	51	WG	0.075	lb ai/a			PRE	A					
4	->CLASSIC	25	WG	0.0258	lb ai/a			PRE	A					
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B					
4	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
5	CANOPY	75	WG	0.14	lb ai/a	3	oz/a	PRE	A	73 d	96 a	96 bcd	91 b	91 b
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B					
5	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
6	GANGSTER FR	84	WG	0.0157	lb ai/a	0.3	oz/a	PRE	A	83 abc	98 a	99 a	98 a	98 a
6	GANGSTER V	51	WG	0.048	lb ai/a	1.5	oz/a	PRE	A					
6	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	0.75	qt/a	2-4"W	B					
6	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B		97 a	93 d	99 a	99 a
7	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"RG	D					
7	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	4-6"RG	D					
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B		96 a	88 e	70 c	70 c
8	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
9	SONIC	70	WG	0.131	lb ai/a	3	oz/a	PRE	A	78 bcd	33 b	97 abc	98 a	98 a
9	DURANGO	4	SL	0.75	lb ai/a	24	fl oz/a	4-6"W	C					
9	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C					
10	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	PRE	A	87 ab	27 c	98 abc	98 a	97 a
10	DURANGO	4	SL	0.75	lb ai/a	24	fl oz/a	4-6"W	C					
10	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C					
11	GF-1280	4	SL	0.75	lb ai/a	24	fl oz/a	2-4"W	B		95 a	88 e	98 a	98 a
11	AMS	100	DRY	2.0	% w/w	2	% w/w	2-4"W	B					
11	GF-1280	4	SL	0.75	lb ai/a	24	fl oz/a	4-6"RG	D					
11	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"RG	D					
12	DURANGO	4	SL	0.75	lb ai/a	24	fl oz/a	2-4"W	B		97 a	98 abc	98 a	98 a
12	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-4"W	B					
12	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
13	DPX-QER54	41.3	WG			3.5	oz/a	PRE	A	90 a	98 a	99 ab	98 a	98 a
13	->CLASSIC	25	WG	0.02	lb ai/a			PRE	A					
13	->HARMONY GT XP	50	SG	0.00643	lb ai/a			PRE	A					
13	->VALOR SX	51	WG	0.0635	lb ai/a			PRE	A					
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B					
13	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
14	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	85 abc	98 a	95 cd	90 b	91 b
14	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W	B					
14	AMS	100	DRY	2.0	% w/w	2	% w/w	2-4"W	B					
15	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A	84 abc	97 a	98 abc	98 a	98 a
15	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A					
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B					
15	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
16	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	88 a	97 a	98 abc	98 a	99 a
16	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A					
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B					
16	AMS	100	DRY	2.0	% w/w	2.0	% w/w	2-4"W	B					

LSD (P=.05)		9.6	5.2	3.1	6.5	6.3
Replicate F		2.942	1.296	2.333	0.665	0.490
Replicate Prob(F)		0.0738	0.2886	0.1144	0.5217	0.6175
Treatment F		54.407	311.826	524.250	121.942	130.400
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 Soybeans - 1.

Project Code: 07-50W-MN80 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	AMATA	AMATA	AMATA	AMATA	AMATA
Crop Code					
Rating Data Type					
Rating Unit	Control	Control	Control	Control	Control
Rating Date	6-21-07	6-28-07	7-6-07	7-19-07	8-16-07
Trt-Eval Interval	0 DA-B	7 DA-B	-3 DA-D	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	NONTREATED									0 e	0 c	0 c	0 e	0 g
2	VALOR XLT	40.3	WG			3 oz/a		PRE	A	78 bcd	99 a	98 ab	99 a	99 a
2	->VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
2	->CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
2	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
3	VALOR XLT	40.3	WG			3.5 oz/a		PRE	A	78 bcd	99 a	99 a	99 a	99 a
3	->VALOR SX	51	WG	0.0653	lb ai/a			PRE	A					
3	->CLASSIC	25	WG	0.0227	lb ai/a			PRE	A					
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
3	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
4	VALOR XLT	40.3	WG			4 oz/a		PRE	A	82 abc	99 a	99 a	99 a	99 a
4	->VALOR SX	51	WG	0.075	lb ai/a			PRE	A					
4	->CLASSIC	25	WG	0.0258	lb ai/a			PRE	A					
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
4	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
5	CANOPY	75	WG	0.14	lb ai/a	3 oz/a		PRE	A	75 cd	99 a	98 ab	72 d	72 ef
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
5	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
6	GANGSTER FR	84	WG	0.0157	lb ai/a	0.3 oz/a		PRE	A	83 ab	99 a	99 a	99 a	98 ab
6	GANGSTER V	51	WG	0.048	lb ai/a	1.5 oz/a		PRE	A					
6	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	0.75 qt/a		2-4"W	B					
6	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B		98 a	98 ab	99 a	99 a
7	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		4-6"RG	D					
7	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		4-6"RG	D					
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B		99 a	97 b	72 d	72 f
8	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
9	SONIC	70	WG	0.131	lb ai/a	3 oz/a		PRE	A	73 d	13 b	98 ab	92 b	90 bc
9	DURANGO	4	SL	0.75	lb ai/a	24 fl oz/a		4-6"W	C					
9	AMS	100	DRY	2.0	% w/w	2 % w/w		4-6"W	C					
10	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3 oz/a		PRE	A	83 ab	0 c	98 ab	85 c	84 cd
10	DURANGO	4	SL	0.75	lb ai/a	24 fl oz/a		4-6"W	C					
10	AMS	100	DRY	2.0	% w/w	2 % w/w		4-6"W	C					
11	GF-1280	4	SL	0.75	lb ai/a	24 fl oz/a		2-4"W	B		99 a	97 b	99 ab	99 a
11	AMS	100	DRY	2.0	% w/w	2 % w/w		2-4"W	B					
11	GF-1280	4	SL	0.75	lb ai/a	24 fl oz/a		4-6"RG	D					
11	AMS	100	DRY	2.0	% w/w	2 % w/w		4-6"RG	D					
12	DURANGO	4	SL	0.75	lb ai/a	24 fl oz/a		2-4"W	B		99 a	99 a	82 c	80 de
12	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3 oz/a		2-4"W	B					
12	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
13	DPX-QER54	41.3	WG			3.5 oz/a		PRE	A	88 a	99 a	99 a	98 ab	99 a
13	->CLASSIC	25	WG	0.02	lb ai/a			PRE	A					
13	->HARMONY GT XP	50	SG	0.00643	lb ai/a			PRE	A					
13	->VALOR SX	51	WG	0.0635	lb ai/a			PRE	A					
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
13	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
14	PREFIX	5.28	EW	1.32	lb ai/a	2 pt/a		PRE	A	87 a	99 a	98 ab	98 ab	97 ab
14	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24 fl oz/a		2-4"W	B					
14	AMS	100	DRY	2.0	% w/w	2 % w/w		2-4"W	B					
15	SCEPTER	70	WG	0.092	lb ai/a	2.1 oz/a		PRE	A	87 a	99 a	98 ab	93 ab	92 ab
15	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5 pt/a		PRE	A					
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
15	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
16	INTRRO	4	L	2	lb ai/a	2 qt/a		PRE	A	88 a	99 a	99 a	98 ab	98 a
16	SCEPTER	70	WG	0.092	lb ai/a	2.1 oz/a		PRE	A					
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
16	AMS	100	DRY	2.0	% w/w	2.0 % w/w		2-4"W	B					

LSD (P=.05)	7.5	4.9	1.3	6.8	8.2
Replicate F	0.884	0.888	0.796	1.322	2.485
Replicate Prob(F)	0.4272	0.4219	0.4604	0.2817	0.1004
Treatment F	89.736	499.604	2770.682	113.417	76.694
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 Soybeans - 1.

Project Code: 07-50W-MN80 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	CYPES	CYPES	CYPES	CYPES	CYPES
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-21-07	6-28-07	7-6-07	7-19-07	8-16-07
Trt-Eval Interval	0 DA-B	7 DA-B	-3 DA-D	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	0 f	0 e	0 f	0 e	0 e
1	NONTREATED									0 f	0 e	0 f	0 e	0 e
2	VALOR XLT	40.3	WG			3	oz/a	PRE	A	72 cd	83 a	98 a	96 ab	93 abc
2	->VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
2	->CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B					
2	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
3	VALOR XLT	40.3	WG			3.5	oz/a	PRE	A	83 ab	78 abc	96 ab	93 abc	92 abc
3	->VALOR SX	51	WG	0.0653	lb ai/a			PRE	A					
3	->CLASSIC	25	WG	0.0227	lb ai/a			PRE	A					
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B					
3	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
4	VALOR XLT	40.3	WG			4	oz/a	PRE	A	88 a	80 abc	97 a	94 ab	94 ab
4	->VALOR SX	51	WG	0.075	lb ai/a			PRE	A					
4	->CLASSIC	25	WG	0.0258	lb ai/a			PRE	A					
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B					
4	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
5	CANOPY	75	WG	0.14	lb ai/a	3	oz/a	PRE	A	45 e	73 bc	94 abc	87 cd	87 bcd
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B					
5	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
6	GANGSTER FR	84	WG	0.0157	lb ai/a	0.3	oz/a	PRE	A	68 d	81 ab	96 ab	96 ab	94 a
6	GANGSTER V	51	WG	0.048	lb ai/a	1.5	oz/a	PRE	A					
6	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	0.75	qt/a	2-4"W	B					
6	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B		77 abc	91 c	96 ab	95 a
7	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"RG	D					
7	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	4-6"RG	D					
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B		73 c	91 c	80 d	79 d
8	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
9	SONIC	70	WG	0.131	lb ai/a	3	oz/a	PRE	A	78 bc	10 d	78 d	90 bc	90 abc
9	DURANGO	4	SL	0.75	lb ai/a	24	fl oz/a	4-6"W	C					
9	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C					
10	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	PRE	A	70 d	0 e	72 e	94 ab	93 abc
10	DURANGO	4	SL	0.75	lb ai/a	24	fl oz/a	4-6"W	C					
10	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C					
11	GF-1280	4	SL	0.75	lb ai/a	24	fl oz/a	2-4"W	B		73 bc	93 bc	97 a	97 a
11	AMS	100	DRY	2.0	% w/w	2	% w/w	2-4"W	B					
11	GF-1280	4	SL	0.75	lb ai/a	24	fl oz/a	4-6"RG	D					
11	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"RG	D					
12	DURANGO	4	SL	0.75	lb ai/a	24	fl oz/a	2-4"W	B		78 abc	96 ab	92 abc	92 abc
12	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3	oz/a	2-4"W	B					
12	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
13	DPX-QER54	41.3	WG			3.5	oz/a	PRE	A	82 ab	79 abc	97 ab	90 bc	86 cd
13	->CLASSIC	25	WG	0.02	lb ai/a			PRE	A					
13	->HARMONY GT XP	50	SG	0.00643	lb ai/a			PRE	A					
13	->VALOR SX	51	WG	0.0635	lb ai/a			PRE	A					
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B					
13	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
14	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	78 bc	77 abc	96 ab	94 ab	94 a
14	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2-4"W	B					
14	AMS	100	DRY	2.0	% w/w	2	% w/w	2-4"W	B					
15	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A	80 b	76 abc	94 abc	96 ab	94 ab
15	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A					
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B					
15	AMS	100	DRY	2.5	lb ai/a	2.5	lb/a	2-4"W	B					
16	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	78 bc	80 abc	97 a	94 ab	94 ab
16	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A					
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B					
16	AMS	100	DRY	2.0	% w/w	2.0	% w/w	2-4"W	B					

LSD (P=.05)		7.1	8.3	4.3	7.1	7.6
Replicate F		8.260	0.713	1.053	1.444	1.855
Replicate Prob(F)		0.0021	0.4983	0.3613	0.2519	0.1739
Treatment F		99.402	109.360	263.292	90.722	78.383
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 Soybeans - 1.

Project Code: 07-50W-MN80 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-21-07	6-28-07	7-6-07	7-19-07	8-16-07
Trt-Eval Interval	0 DA-B	7 DA-B	-3 DA-D	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	NONTREATED									0 d	0 f	0 h	0 e	0 e
2	VALOR XLT	40.3	WG			3 oz/a		PRE	A	82 abc	97 ab	97 a	93 a	92 a
2	->VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
2	->CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
2	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
3	VALOR XLT	40.3	WG			3.5 oz/a		PRE	A	88 a	97 ab	97 a	94 a	92 a
3	->VALOR SX	51	WG	0.0653	lb ai/a			PRE	A					
3	->CLASSIC	25	WG	0.0227	lb ai/a			PRE	A					
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
3	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
4	VALOR XLT	40.3	WG			4 oz/a		PRE	A	85 abc	98 a	97 a	95 a	95 a
4	->VALOR SX	51	WG	0.075	lb ai/a			PRE	A					
4	->CLASSIC	25	WG	0.0258	lb ai/a			PRE	A					
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
4	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
5	CANOPY	75	WG	0.14	lb ai/a	3 oz/a		PRE	A	83 abc	92 bc	92 bcd	83 c	82 c
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
5	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
6	GANGSTER FR	84	WG	0.0157	lb ai/a	0.3 oz/a		PRE	A	83 abc	98 a	97 a	97 a	94 a
6	GANGSTER V	51	WG	0.048	lb ai/a	1.5 oz/a		PRE	A					
6	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	0.75 qt/a		2-4"W	B					
6	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B		84 d	78 g	94 a	93 a
7	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		4-6"RG	D					
7	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		4-6"RG	D					
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B		86 cd	82 fg	58 d	57 d
8	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
9	SONIC	70	WG	0.131	lb ai/a	3 oz/a		PRE	A	78 c	30 e	92 bcd	96 a	94 a
9	DURANGO	4	SL	0.75	lb ai/a	24 fl oz/a		4-6"W	C					
9	AMS	100	DRY	2.0	% w/w	2 % w/w		4-6"W	C					
10	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3 oz/a		PRE	A	80 bc	28 e	93 abc	96 a	94 a
10	DURANGO	4	SL	0.75	lb ai/a	24 fl oz/a		4-6"W	C					
10	AMS	100	DRY	2.0	% w/w	2 % w/w		4-6"W	C					
11	GF-1280	4	SL	0.75	lb ai/a	24 fl oz/a		2-4"W	B		84 d	83 ef	95 a	93 a
11	AMS	100	DRY	2.0	% w/w	2 % w/w		2-4"W	B					
11	GF-1280	4	SL	0.75	lb ai/a	24 fl oz/a		4-6"RG	D					
11	AMS	100	DRY	2.0	% w/w	2 % w/w		4-6"RG	D					
12	DURANGO	4	SL	0.75	lb ai/a	24 fl oz/a		2-4"W	B		94 ab	96 ab	95 a	93 a
12	FIRSTRATE	84	WG	0.0157	lb ai/a	0.3 oz/a		2-4"W	B					
12	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
13	DPX-QER54	41.3	WG			3.5 oz/a		PRE	A	87 ab	97 ab	98 a	93 a	92 a
13	->CLASSIC	25	WG	0.02	lb ai/a			PRE	A					
13	->HARMONY GT XP	50	SG	0.00643	lb ai/a			PRE	A					
13	->VALOR SX	51	WG	0.0635	lb ai/a			PRE	A					
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
13	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
14	PREFIX	5.28	EW	1.32	lb ai/a	2 pt/a		PRE	A	87 ab	96 ab	91 cd	85 bc	84 bc
14	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24 fl oz/a		2-4"W	B					
14	AMS	100	DRY	2.0	% w/w	2 % w/w		2-4"W	B					
15	SCEPTER	70	WG	0.092	lb ai/a	2.1 oz/a		PRE	A	83 abc	93 ab	94 abc	91 ab	90 ab
15	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5 pt/a		PRE	A					
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
15	AMS	100	DRY	2.5	lb ai/a	2.5 lb/a		2-4"W	B					
16	INTRRO	4	L	2	lb ai/a	2 qt/a		PRE	A	88 a	87 cd	88 de	83 c	83 c
16	SCEPTER	70	WG	0.092	lb ai/a	2.1 oz/a		PRE	A					
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		2-4"W	B					
16	AMS	100	DRY	2.0	% w/w	2.0 % w/w		2-4"W	B					

Residual Herbicides in Roundup Ready Soybeans - 1.

Project Code: 07-50W-MN80 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-21-07	6-28-07	7-6-07	7-19-07	8-16-07
Trt-Eval Interval	0 DA-B	7 DA-B	-3 DA-D	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code
LSD (P=.05)									
				7.3		5.7		4.7	
								7.4	
									6.9
Replicate F				2.333		16.527		2.158	
Replicate Prob(F)				0.1205		0.0001		0.1332	
Treatment F				95.848		237.023		215.042	
Treatment Prob(F)				0.0001		0.0001		0.0001	

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

Trial Comments

1. Protocol: Valent (MD64.03), Dow.
2. Ratings: CI at 14 DAP; CI/WC prior to POST and 7, 28 + 56 DA "B".
3. Application timing 2-4"W is based on weed size in treatment #3.
4. Yield.
5. DAP = Days after planting. DA-B = Days after 2-4"W application.
 Ratings at 7 DA-B were also 1 day after the 4-6"W application and prior to the 4-6"RG application.
 Ratings at -3 DA-D were also 15 days after the 2-4"W application and 9 days after the 4-6"W application.
 Ratings at 28 DA-B were also 22 days after the 4-6"W application and 10 days after the 4-6"RG application.
 Ratings at 56 DA-B were also 50 days after the 4-6"W application and 38 days after the 4-6"RG application.
6. Following the PRE application only 0.08 inches of rainfall was recorded during the next 20 days.
7. Harvested 10-21-07, (2) 30 inch rows by 24 feet.