

Residual Herbicides in No-till Soybean.

Project Code: 06-2B-M100 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: 8-22-06

Objective:

Evaluate crop tolerance and weed control with Reflex and standard preemergence herbicides with and without Dual Magnum in no-till soybean.

Weed Code	Common Name	Scientific Name
1.	SETFA foxtail, giant	Setaria faberi Herrm.
2.	AMATA waterhemp, common	Amaranthus rudis Sauer
3.	AMBEL ragweed, common	Ambrosia artemisiifolia L.
4.	CYPES nutsedge, yellow	Cyperus esculentus L.

Crop 1: GLXMA soybean Variety: Asgrow 4403 RR
 Planting Method: Seeded Planting Date: 5-22-06
 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: No-Till Study Design: Randomized complete block
 Previous Crop, Year: ZEAMX, 2005
 Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 100 LB/A

Soil Name: Weir % OM: 1.6 pH: 6.1 CEC: 8
 Texture: Silt loam Fert. Level: P1: 91 LB/A, K: 410 LB/A

APPLICATION DESCRIPTION

	A	B	C
Application Date:	5-19-06	5-23-06	6-16-06
Time of Day:	8:00	11:00	11:00
Application Method:	Spray	Spray	Spray
Application Timing:	3DBP	PRE	3-6"W
Applic. Placement:	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	66 F	74 F	88 F
% Relative Humidity:	60	40	52
Wind Velocity, Unit:	3 MPH	5 MPH	5 MPH
Soil Moisture:	ABONOR	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GLXMA NA	GLXMA NA	GLXMA V2
Height, Unit:	NA NA	NA NA	4-6 IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code:	SETFA		SETFA
Stage (leaves):	5-6		5-6
Height (inches):	3-6		3-8
Density:	Low		Low
Weed 2 Code:	AMATA		AMATA
Stage (leaves):	10+		10+
Height (inches):	3-8		3-6
Density:	Medium		Medium
Weed 3 Code:	AMBEL		
Stage (leaves):	10+		
Height (inches):	3-8		
Density:	Low		
Weed 4 Code:	CYPES		
Stage (leaves):	5-6		
Height (inches):	3-8		
Density:	Low		

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan
Nozzle Size:	8003	8003	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA

NOTES:

Residual Herbicides in No-till Soybean.

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA	GLXMA	SETFA	SETFA	SETFA	SETFA
										Injury Percent	Injury Percent	Control Percent	Control Percent	Control Percent	Control Percent
1	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	0	0	0	0
1	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
2	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	30	99	98	98
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
2	REFLEX	2	EC	0.25	lb ai/a	16	fl oz/a	PRE	B						
2	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
3	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	2	92	99	98	98
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
3	SPARTAN	4	L	0.25	lb ai/a	8	fl oz/a	PRE	B						
3	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
4	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	2	80	99	98	98
4	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
4	CANOPY	75	WG	0.187	lb ai/a	4	oz/a	PRE	B						
4	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
5	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	82	99	98	97
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
5	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	B						
5	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
6	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	95	99	98	97
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
6	GANGSTER (MULTI-PACK)							PRE	B						
6	->GANGSTER FR	84	WG	0.0262	lb ai/a	0.5	oz/a	PRE	B						
6	->GANGSTER V	51	WG	0.08	lb ai/a	2.5	oz/a	PRE	B						
6	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	1	83	99	98	98
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
7	SCEPTER	70	WG	0.0875	lb ai/a	2	oz/a	PRE	B						
7	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
8	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	83	99	98	98
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
8	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B						
8	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	78	99	98	98
9	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
9	REFLEX	2	EC	0.25	lb ai/a	16	fl oz/a	PRE	B						
9	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B						
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
10	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	91	99	98	98
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
10	SPARTAN	4	L	0.25	lb ai/a	8	fl oz/a	PRE	B						
10	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B						
10	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
11	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	2	100	99	97	95
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
11	CANOPY	75	WG	0.187	lb ai/a	4	oz/a	PRE	B						
11	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B						
11	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
12	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	89	99	98	97
12	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
12	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	B						
12	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B						
12	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
12	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						

Residual Herbicides in No-till Soybean.

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA	GLXMA	SETFA	SETFA	SETFA	SETFA
																Injury Percent	Injury Percent	Control Percent	Control Percent	Control Percent	Control Percent
																6-4-06	6-11-06	6-16-06	6-25-06	7-14-06	7-28-06
																7 DAE	14 DAE	0 DA-C	28 DAE	28 DA-C	42 DA-C
13							GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	98	99	97	96
13							PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
13							GANGSTER (MULTI-PACK)							PRE	B						
13							->GANGSTER FR	84	WG	0.0262	lb ai/a	0.5	oz/a	PRE	B						
13							->GANGSTER V	51	WG	0.08	lb ai/a	2.5	oz/a	PRE	B						
13							DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B						
13							TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
13							AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
14							GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	1	89	99	98	98
14							PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
14							SCEPTER	70	WG	0.0875	lb ai/a	2	oz/a	PRE	B						
14							DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B						
14							TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
14							AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
15							GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	0	99	98	98
15							PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
15							TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
15							AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
16							GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	82	99	98	98
16							PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
16							PREFIX	5.28	EW	1.0	lb ai/a	1.5	pt/a	PRE	B						
16							TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
16							AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
17							GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	90	99	97	97
17							PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
17							PREFIX	5.28	EW	1.32	lb ai/a	2.0	pt/a	PRE	B						
17							TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
17							AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
18							GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	85	99	97	97
18							PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
18							PREFIX	5.28	EW	1.58	lb ai/a	2.4	pt/a	PRE	B						
18							TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
18							AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
19							GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	85	99	97	97
19							PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
19							BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	B						
19							TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
19							AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
20							GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	91	99	98	98
20							PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
20							BOUNDARY	6.5	EC	1.46	lb ai/a	1.8	pt/a	PRE	B						
20							TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C						
20							AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C						
LSD (P=.05)																0.0	0.8	20.7	0.0	1.1	1.8
Replicate F																0.000	2.056	2.176	0.000	1.085	1.859
Replicate Prob(F)																1.0000	0.1424	0.1274	1.0000	0.3483	0.1698
Treatment F																0.000	8.670	16.822	0.000	3446.840	1144.120
Treatment Prob(F)																1.0000	0.0001	0.0001	1.0000	0.0001	0.0001

Residual Herbicides in No-till Soybean.

Project Code: 06-2B-M100 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code										AMATA	AMATA	AMATA	AMATA	AMBEL	AMBEL	AMBEL
Crop Code										Control	Control	Control	Control	Control	Control	Control
Rating Data Type										Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit										6-16-06	6-25-06	7-14-06	7-28-06	6-25-06	7-14-06	7-28-06
Rating Date										0 DA-C	28 DAE	28 DA-C	42 DA-C	28 DAE	28 DA-C	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							
1	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	0	0	0	0	0
1	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
2	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	97	99	98	98	99	99	99
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
2	REFLEX	2	EC	0.25	lb ai/a	16	fl oz/a	PRE	B							
2	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
3	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	97	99	98	98	99	99	99
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
3	SPARTAN	4	L	0.25	lb ai/a	8	fl oz/a	PRE	B							
3	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
4	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	99	88	83	99	99	99
4	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
4	CANOPY	75	WG	0.187	lb ai/a	4	oz/a	PRE	B							
4	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
5	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	97	99	96	97	99	99	99
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
5	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	B							
5	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
6	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	98	99	91	91	99	99	99
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
6	GANGSTER (MULTI-PACK)							PRE	B							
6	->GANGSTER FR	84	WG	0.0262	lb ai/a	0.5	oz/a	PRE	B							
6	->GANGSTER V	51	WG	0.08	lb ai/a	2.5	oz/a	PRE	B							
6	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	98	95	91	99	98	98
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
7	SCEPTER	70	WG	0.0875	lb ai/a	2	oz/a	PRE	B							
7	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
8	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	98	99	94	92	99	99	98
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
8	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B							
8	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	98	99	95	96	99	99	99
9	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
9	REFLEX	2	EC	0.25	lb ai/a	16	fl oz/a	PRE	B							
9	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B							
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
10	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	99	98	98	99	98	97
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
10	SPARTAN	4	L	0.25	lb ai/a	8	fl oz/a	PRE	B							
10	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B							
10	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
11	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	99	91	87	99	99	99
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
11	CANOPY	75	WG	0.187	lb ai/a	4	oz/a	PRE	B							
11	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B							
11	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
12	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	99	94	95	99	99	99
12	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
12	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	B							
12	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B							
12	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
12	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							

Residual Herbicides in No-till Soybean.

Project Code: 06-2B-M100 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	AMATA	AMATA	AMATA	AMATA	AMBEL	AMBEL	AMBEL
Crop Code	Control	Control	Control	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-16-06	6-25-06	7-14-06	7-28-06	6-25-06	7-14-06	7-28-06
Rating Date	0 DA-C	28 DAE	28 DA-C	42 DA-C	28 DAE	28 DA-C	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	AMATA	AMATA	AMATA	AMATA	AMBEL	AMBEL	AMBEL
13	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	100	99	97	97	99	99	99
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
13	GANGSTER (MULTI-PACK)							PRE	B							
13	->GANGSTER FR	84	WG	0.0262	lb ai/a	0.5	oz/a	PRE	B							
13	->GANGSTER V	51	WG	0.08	lb ai/a	2.5	oz/a	PRE	B							
13	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B							
13	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
14	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	83	99	92	92	99	99	99
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
14	SCEPTER	70	WG	0.0875	lb ai/a	2	oz/a	PRE	B							
14	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B							
14	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
15	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	99	92	88	99	99	99
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
15	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
16	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	98	99	98	98	99	99	99
16	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
16	PREFIX	5.28	EW	1.0	lb ai/a	1.5	pt/a	PRE	B							
16	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
16	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
17	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	98	99	98	98	99	99	99
17	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
17	PREFIX	5.28	EW	1.32	lb ai/a	2.0	pt/a	PRE	B							
17	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
18	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	99	98	98	99	99	99
18	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
18	PREFIX	5.28	EW	1.58	lb ai/a	2.4	pt/a	PRE	B							
18	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
19	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	98	99	93	93	99	98	98
19	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
19	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	B							
19	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
19	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
20	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	99	92	88	99	98	98
20	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
20	BOUNDARY	6.5	EC	1.46	lb ai/a	1.8	pt/a	PRE	B							
20	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C							
20	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C							
LSD (P=.05)										10.8	0.4	4.5	6.5	0.0	1.2	1.2
Replicate F										0.932	3.687	1.251	0.997	0.000	0.232	0.421
Replicate Prob(F)										0.4024	0.0344	0.2977	0.3786	1.0000	0.7940	0.6596
Treatment F										113.251	24971.883	184.901	87.988	0.000	2909.199	2836.271
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

Residual Herbicides in No-till Soybean.

Project Code: 06-2B-M100 Location: Belleville Research Center
Investigator: Bryan Young

Weed Code	CYPES	CYPES	CYPES
Crop Code	Control	Control	Control
Rating Data Type	Percent	Percent	Percent
Rating Unit	6-25-06	7-14-06	7-28-06
Rating Date	28 DAE	28 DA-C	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			
1	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	0
1	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
2	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	98	99	99
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
2	REFLEX	2	EC	0.25	lb ai/a	16	fl oz/a	PRE	B			
2	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W	C			
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W	C			
3	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	99	99
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
3	SPARTAN	4	L	0.25	lb ai/a	8	fl oz/a	PRE	B			
3	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W	C			
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W	C			
4	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	99	99
4	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
4	CANOPY	75	WG	0.187	lb ai/a	4	oz/a	PRE	B			
4	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W	C			
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W	C			
5	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	98	99	99
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
5	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	B			
5	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W	C			
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W	C			
6	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	98	99	99
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
6	GANGSTER (MULTI-PACK)							PRE	B			
6	->GANGSTER FR	84	WG	0.0262	lb ai/a	0.5	oz/a	PRE	B			
6	->GANGSTER V	51	WG	0.08	lb ai/a	2.5	oz/a	PRE	B			
6	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W	C			
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W	C			
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	98	99	99
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
7	SCEPTER	70	WG	0.0875	lb ai/a	2	oz/a	PRE	B			
7	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W	C			
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W	C			
8	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	98	99	99
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
8	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B			
8	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W	C			
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W	C			
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	99	99
9	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
9	REFLEX	2	EC	0.25	lb ai/a	16	fl oz/a	PRE	B			
9	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B			
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W	C			
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W	C			
10	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	99	99
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
10	SPARTAN	4	L	0.25	lb ai/a	8	fl oz/a	PRE	B			
10	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B			
10	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W	C			
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W	C			
11	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	99	99
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
11	CANOPY	75	WG	0.187	lb ai/a	4	oz/a	PRE	B			
11	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B			
11	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W	C			
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W	C			
12	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	98	99	99
12	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
12	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	B			
12	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B			
12	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W	C			
12	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W	C			

Residual Herbicides in No-till Soybean.

Project Code: 06-2B-M100 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	CYPES	CYPES	CYPES
Crop Code			
Rating Data Type	Control	Control	Control
Rating Unit	Percent	Percent	Percent
Rating Date	6-25-06	7-14-06	7-28-06
Trt-Eval Interval	28 DAE	28 DA-C	42 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code			
13	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	99	99
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
13	GANGSTER (MULTI-PACK)							PRE	B			
13	->GANGSTER FR	84	WG	0.0262	lb ai/a	0.5	oz/a	PRE	B			
13	->GANGSTER V	51	WG	0.08	lb ai/a	2.5	oz/a	PRE	B			
13	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B			
13	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C			
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C			
14	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	99	99
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
14	SCEPTER	70	WG	0.0875	lb ai/a	2	oz/a	PRE	B			
14	DUAL MAGNUM	7.62	EC	1.08	lb ai/a	1.13	pt/a	PRE	B			
14	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C			
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C			
15	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	98	98	98
15	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
15	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C			
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C			
16	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	98	98	98
16	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
16	PREFIX	5.28	EW	1.0	lb ai/a	1.5	pt/a	PRE	B			
16	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C			
16	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C			
17	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	99	99
17	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
17	PREFIX	5.28	EW	1.32	lb ai/a	2.0	pt/a	PRE	B			
17	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C			
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C			
18	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	98	98
18	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
18	PREFIX	5.28	EW	1.58	lb ai/a	2.4	pt/a	PRE	B			
18	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C			
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C			
19	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	99	99
19	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
19	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	B			
19	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C			
19	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C			
20	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	99	99
20	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
20	BOUNDARY	6.5	EC	1.46	lb ai/a	1.8	pt/a	PRE	B			
20	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"	W C			
20	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"	W C			
LSD (P=.05)										0.9	0.9	0.9
Replicate F										0.053	1.125	1.125
Replicate Prob(F)										0.9485	0.3353	0.3353
Treatment F										4623.942	5186.617	5186.617
Treatment Prob(F)										0.0001	0.0001	0.0001

Trial Comments

1. Protocol: Syngenta.
2. Ratings: CI 7 + 14 DAE; WC 28 DAE and/or at the "C" timing; WC 28 + 42 DA "C".
3. Blanket burndown application at 3 days before planned planting date, see trt list.
Blanket application is 10 ft wide to all plots.
4. DAE = Days after crop emergence. DA-C = Days after 3-6"W application.
Ratings at 0 DA-C were at postemergence application.
5. Not harvested.