

Soybean, Tilled Weed Control Studies

12-06-05 (05-21S-MME60)

Southern Illinois University

General Herbicide Evaluation in Soybean.

Project Code: 05-21S-MME60 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:
Evaluate various company programs for weed control in reduced tillage soybean.

Weed Code	Common Name	Scientific Name
1.	SETFA foxtail, giant	Setaria faberi Herrm.
2.	ABUTH velvetleaf	Abutilon theophrasti Medicus
3.	XANST cocklebur, common	Xanthium strumarium L.
4.	IPOHE morningglory, ivyleaf	Ipomoea hederacea (L.) Jacq.

Crop 1: GLXMA soybean Variety: Asgrow 4403 RR
Planting Method: Seeded Planting Date: 5-17-05
Rate: 75 lb/A Depth: 1.0 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 30 FT Reps: 3
Tillage Type: Reduced-Till Study Design: Randomized complete block
Previous Crop, Year: ZEAMX, 2004

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

Soil Name: Ebbert % OM: 2.7 pH: 6.2 CEC: 14
Texture: Silt loam Fert. Level: P1: 115 LB/A, K: 500 LB/A

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	05-18-05	06-10-05	06-17-05	06-17-05	07-08-05	06-15-05
Time of Day:	10:00	11:15	11:00	11:00	8:50	8:15
Application Method:	Spray	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	2-4"W	4-6"W-1	4-6"W-2	4-6"W-3	4"W-IN
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	70 F	86 F	76 F	76 F	78 F	74 F
% Relative Humidity:	45	60	50	50	60	50
Wind Velocity, Unit:	7 MPH	4 MPH	3 MPH	3 MPH	0 MPH	7 MPH
Soil Moisture:	NORMAL	ABONOR	ABONOR	ABONOR	ABONOR	ABONOR

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Code, Stage:	GLXMA NA	GLXMA V1	GLXMA V3	GLXMA V3	GLXMA R1	GLXMA V3
Height, Unit:	NA NA	3 IN	6 IN	6 IN	12-13 IN	4-5 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 Code:		SETFA	SETFA	SETFA		SETFA
Stage (leaves):		4-6	5-8	5-8		4-6
Height (inches):		2-5	5-8	5-8		3-6
Density:		Medium	Medium	Medium		Medium
Weed 2 Code:		ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Stage (leaves):		3-4	5-6	5-6	4-5	4-8
Height (inches):		1-3	4-7	4-7	5-6	3-6
Density:		Low	Medium	Medium	Medium	Medium
Weed 3 Code:		XANST	XANST	XANST		XANST
Stage (leaves):		4-6	4-8	4-8		4-8
Height (inches):		2-4	7-10	7-10		3-6
Density:		Medium	Medium	Medium		Medium
Weed 4 Code:		IPOHE	IPOHE	IPOHE	IPOHE	IPOHE
Stage (leaves):		4-6	5-8	5-8	2-4	2-8
Height (inches):		2-4	5-8	5-8	1-3	1-4
Density:		Medium	Medium	Medium	High	Medium

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	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
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	8003	8002	8002	8002	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA	20 GPA	20 GPA	20 GPA

NOTES:

General Herbicide Evaluation in Soybean.

Project Code: 05-21S-MME60 Location: Belleville Research Center
 Investigator: Bryan Young

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

GLXMA GLXMA GLXMA GLXMA GLXMA
 Injury Injury Injury Injury Injury
 Percent Percent Percent Percent Percent
 06-08-05 06-10-05 06-22-05 07-01-05 07-15-05
 14 DAE 0 DA-B 28 DAE 14 DA-D 28 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Injury Percent 06-08-05 14 DAE	GLXMA Injury Percent 06-10-05 0 DA-B	GLXMA Injury Percent 06-22-05 28 DAE	GLXMA Injury Percent 07-01-05 14 DA-D	GLXMA Injury Percent 07-15-05 28 DA-D
1	NONTREATED									0	0	0	0	0
2	BOUNDARY	6.5	EC	1.63	lb ai/a	2	pt/a	PRE	A	0	0	13	0	0
2	FLEXSTAR	1.88	EC	0.353	lb ai/a	1.5	pt/a	2-4"W	B					
2	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	2-4"W	B					
2	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	2-4"W	B					
2	28% UAN	100	LIQ	2.0	% v/v	2	% v/v	2-4"W	B					
3	PENDIMAX	3.3	EC	1.24	lb ai/a	3	pt/a	PRE	A	0	0	12	0	0
3	FIRSTRATE	84	WG	0.016	lb ai/a	0.3	oz/a	2-4"W	B					
3	SELECT	2	EC	0.094	lb ai/a	6	fl oz/a	2-4"W	B					
3	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	2-4"W	B					
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	2-4"W	B					
3	AMS	100	DRY	2.5	lb/a	2.5	lb/a	2-4"W	B					
4	PENDIMAX	3.3	EC	1.24	lb ai/a	3	pt/a	PRE	A	0	0	0	0	0
4	GANGSTER (MULTI-PACK)							PRE	A					
4	->GANGSTER V	51	WG	0.094	lb ai/a	3	oz/a	PRE	A					
4	->GANGSTER FR	84	WG	0.032	lb ai/a	0.6	oz/a	PRE	A					
5	PENDIMAX	3.3	EC	1.24	lb ai/a	3	pt/a	PRE	A	0	0	0	0	0
5	GANGSTER (MULTI-PACK)							PRE	A					
5	->GANGSTER V	51	WG	0.094	lb ai/a	3	oz/a	PRE	A					
5	->GANGSTER FR	84	WG	0.032	lb ai/a	0.6	oz/a	PRE	A					
5	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	4"W-IN	F					
5	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4"W-IN	F					
6	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	4-6"W-1	C			13	0	0
6	FIRSTRATE	84	WG	0.016	lb ai/a	0.3	oz/a	4-6"W-1	C					
6	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-1	C					
7	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	4-6"W-1	C			0	0	0
7	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-1	C					
7	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	4-6"W-3	E					
7	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-3	E					
8	GANGSTER (MULTI-PACK)							PRE	A	0	0	0	0	0
8	->GANGSTER V	51	WG	0.048	lb ai/a	1.5	oz/a	PRE	A					
8	->GANGSTER FR	84	WG	0.016	lb ai/a	0.3	oz/a	PRE	A					
8	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	4-6"W-2	D					
8	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-2	D					
9	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	0	0	13	0	0
9	EXTREME	2.17	SL	0.81	lb ai/a	3	pt/a	4-6"W-2	D					
9	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	4-6"W-2	D					
9	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-2	D					
10	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A	0	0	0	0	0
10	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A					
10	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W-2	D					
10	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-2	D					
11	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	0	0	0	0	0
11	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W-2	D					
11	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-2	D					
12	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	0	0	17	0	0
12	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	2-4"W	B					
12	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	2-4"W	B					
12	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	2-4"W	B					
12	AMS	100	DRY	2.5	lb/a	2.5	lb/a	2-4"W	B					
13	BOUNDARY	6.5	EC	1.63	lb ai/a	2	pt/a	PRE	A	0	0	0	0	0
13	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W-2	D					
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-2	D					
14	BOUNDARY	6.5	EC	1.38	lb ai/a	1.7	pt/a	PRE	A	0	0	0	0	0
14	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W-2	D					
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-2	D					
15	A14972A	5.3	EC	1.33	lb ai/a	1	qt/a	PRE	A	0	0	0	0	0
15	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W-2	D					
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-2	D					

General Herbicide Evaluation in Soybean.

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

GLXMA GLXMA GLXMA GLXMA GLXMA
 Injury Injury Injury Injury Injury
 Percent Percent Percent Percent Percent
 06-08-05 06-10-05 06-22-05 07-01-05 07-15-05
 14 DAE 0 DA-B 28 DAE 14 DA-D 28 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Injury Percent 06-08-05 14 DAE	GLXMA Injury Percent 06-10-05 0 DA-B	GLXMA Injury Percent 06-22-05 28 DAE	GLXMA Injury Percent 07-01-05 14 DA-D	GLXMA Injury Percent 07-15-05 28 DA-D
16	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W-1	C			0	0	0
16	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-1	C					
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W-1	C			0	0	0
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-1	C					
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W-1	C			0	0	0
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-1	C					
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W-3	E					
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-3	E					
LSD (P=.05)										0.0	0.0	2.6	0.0	0.0
Replicate F										0.000	0.000	0.791	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	0.4617	1.0000	1.0000
Treatment F										0.000	0.000	51.826	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	0.0001	1.0000	1.0000

General Herbicide Evaluation in Soybean.

Project Code: 05-21S-MME60 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	SETFA	SETFA	SETFA	ABUTH	ABUTH	ABUTH
Crop Code	Control	Control	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	06-10-05	07-01-05	07-15-05	06-10-05	07-01-05	07-15-05
Rating Date	0 DA-B	14 DA-D	28 DA-D	0 DA-B	14 DA-D	28 DA-D
Trt-Eval Interval						

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	SETFA 06-10-05	SETFA 07-01-05	SETFA 07-15-05	ABUTH 06-10-05	ABUTH 07-01-05	ABUTH 07-15-05
1	NONTREATED									0	0	0	0	0	0
2	BOUNDARY	6.5	EC	1.63	lb ai/a	2	pt/a	PRE	A	81	99	99	52	95	99
2	FLEXSTAR	1.88	EC	0.353	lb ai/a	1.5	pt/a	2-4"W	B						
2	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	2-4"W	B						
2	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	2-4"W	B						
2	28% UAN	100	LIQ	2.0	% v/v	2	% v/v	2-4"W	B						
3	PENDIMAX	3.3	EC	1.24	lb ai/a	3	pt/a	PRE	A	23	96	99	3	83	99
3	FIRSTRATE	84	WG	0.016	lb ai/a	0.3	oz/a	2-4"W	B						
3	SELECT	2	EC	0.094	lb ai/a	6	fl oz/a	2-4"W	B						
3	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	2-4"W	B						
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	2-4"W	B						
3	AMS	100	DRY	2.5	lb/a	2.5	lb/a	2-4"W	B						
4	PENDIMAX	3.3	EC	1.24	lb ai/a	3	pt/a	PRE	A	53	57	99	87	75	99
4	GANGSTER (MULTI-PACK)							PRE	A						
4	->GANGSTER V	51	WG	0.094	lb ai/a	3	oz/a	PRE	A						
4	->GANGSTER FR	84	WG	0.032	lb ai/a	0.6	oz/a	PRE	A						
5	PENDIMAX	3.3	EC	1.24	lb ai/a	3	pt/a	PRE	A	37	99	99	87	99	99
5	GANGSTER (MULTI-PACK)							PRE	A						
5	->GANGSTER V	51	WG	0.094	lb ai/a	3	oz/a	PRE	A						
5	->GANGSTER FR	84	WG	0.032	lb ai/a	0.6	oz/a	PRE	A						
5	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	4"W-IN	F						
5	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4"W-IN	F						
6	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	4-6"W-1	C		99	99		91	99
6	FIRSTRATE	84	WG	0.016	lb ai/a	0.3	oz/a	4-6"W-1	C						
6	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-1	C						
7	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	4-6"W-1	C		99	99		93	99
7	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-1	C						
7	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	4-6"W-3	E						
7	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-3	E						
8	GANGSTER (MULTI-PACK)							PRE	A	0	99	99	37	96	99
8	->GANGSTER V	51	WG	0.048	lb ai/a	1.5	oz/a	PRE	A						
8	->GANGSTER FR	84	WG	0.016	lb ai/a	0.3	oz/a	PRE	A						
8	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	4-6"W-2	D						
8	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-2	D						
9	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	23	99	99	38	83	99
9	EXTREME	2.17	SL	0.81	lb ai/a	3	pt/a	4-6"W-2	D						
9	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	4-6"W-2	D						
9	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-2	D						
10	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A	77	99	99	77	98	99
10	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A						
10	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W-2	D						
10	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-2	D						
11	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	42	99	99	20	90	99
11	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W-2	D						
11	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-2	D						
12	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	48	99	99	18	77	99
12	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	2-4"W	B						
12	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	2-4"W	B						
12	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	2-4"W	B						
12	AMS	100	DRY	2.5	lb/a	2.5	lb/a	2-4"W	B						
13	BOUNDARY	6.5	EC	1.63	lb ai/a	2	pt/a	PRE	A	58	99	99	17	91	99
13	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W-2	D						
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-2	D						
14	BOUNDARY	6.5	EC	1.38	lb ai/a	1.7	pt/a	PRE	A	53	99	99	7	90	99
14	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W-2	D						
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-2	D						
15	A14972A	5.3	EC	1.33	lb ai/a	1	qt/a	PRE	A	43	99	99	20	85	99
15	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W-2	D						
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-2	D						

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 Investigator: Bryan Young

Weed Code	SETFA	SETFA	SETFA	ABUTH	ABUTH	ABUTH
Crop Code						
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	06-10-05	07-01-05	07-15-05	06-10-05	07-01-05	07-15-05
Trt-Eval Interval	0 DA-B	14 DA-D	28 DA-D	0 DA-B	14 DA-D	28 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	SETFA	SETFA	SETFA	ABUTH	ABUTH	ABUTH
16	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W-1	C		99	99		88	99
16	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-1	C						
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W-1	C		99	99		85	99
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-1	C						
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W-1	C		99	99		82	99
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-1	C						
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W-3	E						
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-3	E						
LSD (P=.05)										35.8	2.4	0.2	21.3	11.0	0.0
Replicate F										0.681	1.373	1.000	0.608	5.451	0.000
Replicate Prob(F)										0.5154	0.2671	0.3784	0.5528	0.0088	1.0000
Treatment F										4.195	876.093	88175.071	17.982	33.116	0.000
Treatment Prob(F)										0.0014	0.0001	0.0001	0.0001	0.0001	1.0000

General Herbicide Evaluation in Soybean.

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 Investigator: Bryan Young

Weed Code						XANST	XANST	XANST	IPOHE	IPOHE	IPOHE	
Crop Code						Control	Control	Control	Control	Control	Control	
Rating Data Type						Percent	Percent	Percent	Percent	Percent	Percent	
Rating Unit						06-10-05	07-01-05	07-15-05	06-10-05	07-01-05	07-15-05	
Rating Date						0 DA-B	14 DA-D	28 DA-D	0 DA-B	14 DA-D	28 DA-D	
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
2	BOUNDARY	6.5	EC	1.63	lb ai/a	2	pt/a	PRE	A	0	91	99
2	FLEXSTAR	1.88	EC	0.353	lb ai/a	1.5	pt/a	2-4"W	B			
2	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	2-4"W	B			
2	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	2-4"W	B			
2	28% UAN	100	LIQ	2.0	% v/v	2	% v/v	2-4"W	B			
3	PENDIMAX	3.3	EC	1.24	lb ai/a	3	pt/a	PRE	A	0	98	99
3	FIRSTRATE	84	WG	0.016	lb ai/a	0.3	oz/a	2-4"W	B			
3	SELECT	2	EC	0.094	lb ai/a	6	fl oz/a	2-4"W	B			
3	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	2-4"W	B			
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	2-4"W	B			
3	AMS	100	DRY	2.5	lb/a	2.5	lb/a	2-4"W	B			
4	PENDIMAX	3.3	EC	1.24	lb ai/a	3	pt/a	PRE	A	47	43	99
4	GANGSTER (MULTI-PACK)							PRE	A			
4	->GANGSTER V	51	WG	0.094	lb ai/a	3	oz/a	PRE	A			
4	->GANGSTER FR	84	WG	0.032	lb ai/a	0.6	oz/a	PRE	A			
5	PENDIMAX	3.3	EC	1.24	lb ai/a	3	pt/a	PRE	A	45	99	98
5	GANGSTER (MULTI-PACK)							PRE	A			
5	->GANGSTER V	51	WG	0.094	lb ai/a	3	oz/a	PRE	A			
5	->GANGSTER FR	84	WG	0.032	lb ai/a	0.6	oz/a	PRE	A			
5	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	4"W-IN	F			
5	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4"W-IN	F			
6	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	4-6"W-1	C		99	99
6	FIRSTRATE	84	WG	0.016	lb ai/a	0.3	oz/a	4-6"W-1	C			70
6	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-1	C			99
7	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	4-6"W-1	C		93	98
7	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-1	C			98
7	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	4-6"W-3	E			
7	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-3	E			
8	GANGSTER (MULTI-PACK)							PRE	A	17	99	99
8	->GANGSTER V	51	WG	0.048	lb ai/a	1.5	oz/a	PRE	A			
8	->GANGSTER FR	84	WG	0.016	lb ai/a	0.3	oz/a	PRE	A			
8	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	4-6"W-2	D			
8	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-2	D			
9	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	3	98	99
9	EXTREME	2.17	SL	0.81	lb ai/a	3	pt/a	4-6"W-2	D			
9	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	4-6"W-2	D			
9	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-2	D			
10	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A	47	99	99
10	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A			
10	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W-2	D			
10	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-2	D			
11	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	0	99	99
11	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W-2	D			
11	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4-6"W-2	D			
12	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	0	96	99
12	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	2-4"W	B			
12	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	2-4"W	B			
12	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	2-4"W	B			
12	AMS	100	DRY	2.5	lb/a	2.5	lb/a	2-4"W	B			
13	BOUNDARY	6.5	EC	1.63	lb ai/a	2	pt/a	PRE	A	3	99	99
13	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W-2	D			
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-2	D			
14	BOUNDARY	6.5	EC	1.38	lb ai/a	1.7	pt/a	PRE	A	0	96	99
14	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W-2	D			
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-2	D			
15	A14972A	5.3	EC	1.33	lb ai/a	1	qt/a	PRE	A	0	99	99
15	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	4-6"W-2	D			
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-2	D			

General Herbicide Evaluation in Soybean.

Project Code: 05-21S-MME60 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code						XANST	XANST	XANST	IPOHE	IPOHE	IPOHE				
Crop Code															
Rating Data Type						Control	Control	Control	Control	Control	Control				
Rating Unit						Percent	Percent	Percent	Percent	Percent	Percent				
Rating Date						06-10-05	07-01-05	07-15-05	06-10-05	07-01-05	07-15-05				
Trt-Eval Interval						0 DA-B	14 DA-D	28 DA-D	0 DA-B	14 DA-D	28 DA-D				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
16	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a								
16	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-1	C	99	99	68			
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a								
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-1	C	99	99	77			
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a								
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-1	C	99	98	78			
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a								
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	4-6"W-3	E			93			
LSD (P=.05)										10.7	4.2	1.3	13.4	10.4	4.4
Replicate F										2.574	3.849	3.102	1.834	1.593	1.953
Replicate Prob(F)										0.0971	0.0311	0.0579	0.1814	0.2181	0.1574
Treatment F										28.758	319.071	2726.572	15.316	31.550	234.809
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Trial Comments

1. Protocol: Syngenta, Dow, BASF.
2. Ratings: CI 14 and 28 DAE and 14 and 28 DA "D".
WC prior to POST for all plots and 14 and 28 DA "D".
3. DAE = Days after emergence. DA-B = Days after 2-4"W application. DA-D = Days after 4-6"W-2 application.
Ratings on 6-10-05 at 0 DA-B were prior to all postemergence applications.
Ratings at 14 and 28 days after 4-6"W-2 application were also 14 and 28 days after 4-6"W-1 application.