

General Evaluation of Sequential Herbicide Programs in Soybean.

Project Code: 06-6A-W150 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: 11-22-06

Objective:

Determine the differences in efficacy and benefit of various soil residual herbicides used in soybean ahead of a postemergence application.

Weed Code	Common Name	Scientific Name
1. XANST	cocklebur, common	Xanthium strumarium L.
2. SETFA	foxtail, giant	Setaria faberi Herrm.
3. AMATA	waterhemp, common	Amaranthus rudis Sauer
4. IPOSS	morningglory, species	Ipomoea sp.

Crop 1:	GLXMA soybean	Variety:	Asgrow 4403 RR
Planting Method:	Seeded	Planting Date:	5-24-06
Rate:	75 lb/A	Depth:	1.0 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	25 FT	Reps:	3
Tillage Type:	Reduced-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:	Stoy	% OM:	1.6	pH:	6.3	CEC:	7
Texture:	Silt loam	Fert. Level:	P1: 105 LB/A, K: 448 LB/A				

APPLICATION DESCRIPTION

	A	B	C	D	E
Application Date:	5-25-06	6-16-06	6-12-06	6-16-06	7-9-06
Time of Day:	12:00	10:30	18:00	10:30	8:30
Application Method:	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	3-6"W-1	3-4"W	3-6"W-2	3-6"RG
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	89 F	83 F	75 F	83 F	72 F
% Relative Humidity:	58	64	50	64	94
Wind Velocity, Unit:	6 MPH	3-5 MPH	2-3 MPH	3-5 MPH	0-2 MPH
Dew Presence (Y/N):	N				
Soil Moisture:	NORMAL	BELNOR	NORMAL	BELNOR	NORMAL
% Cloud Cover:	5	10	5	10	

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E
Crop 1 Code, Stage:	GLXMA NA	GLXMA V2	GLXMA V1	GLXMA V2	GLXMA V4
Height, Unit:	NA NA	4-5 IN	3-4 IN	4-5 IN	9 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E
Weed 1 Code:		XANST	XANST	XANST	XANST
Stage (leaves):		4-10	2-6	4-10	4-6
Height (inches):		2-5	0-4	2-5	3-6
Density:		High	High	High	Low
Weed 2 Code:		SETFA	SETFA	SETFA	SETFA
Stage (leaves):		3-6	2-6	3-6	3-4
Height (inches):		2-5	0-4	2-5	3-6
Density:		Medium	Medium	Medium	Low
Weed 3 Code:		AMATA	AMATA	AMATA	AMATA
Stage (leaves):		2-5	2-5	2-5	5-7
Height (inches):		0-3	0-3	0-3	3-6
Density:		Low	Low	Low	Low
Weed 4 Code:					IPOSS
Stage (leaves):					6-7
Height (inches):					3-6
Density:					Low

APPLICATION EQUIPMENT

	A	B	C	D	E
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	8002	8002	8002	8002	8002
Boom Length, Unit:	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

NOTES:

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Weed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval IntervalGLXMA GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA
Moisture Yield Injury Injury Injury Injury Injury
Percent bu/A Percent Percent Percent Percent Percent
10-24-06 10-24-06 6-6-06 6-13-06 6-30-06 7-14-06 7-28-06
7 DAE 14 DAE 14 DA-D 28 DA-D 42 DA-D

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										0	0	0	0	0	0
2	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	13.1	18	0	0	4	1	0
2	EXTREME	2.17	SL	0.81	lb ai/a	3	pt/a	3-6"W-2	D							
2	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	3-6"W-2	D							
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D							
3	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A	12.8	18	2	2	0	0	0
3	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A							
3	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D							
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-6"W-2	D							
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D							
4	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	13.0	20	1	1	1	1	0
4	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D							
4	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-6"W-2	D							
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D							
5	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	12.8	9	0	0	0	1	0
5	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	3-4"W	C							
5	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3-4"W	C							
5	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	3-4"W	C							
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4"W	C							
6	PREFIX	5.28	EW	0.99	lb ai/a	1.5	pt/a	PRE	A	12.9	11	0	1	2	3	0
6	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D							
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D							
7	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	12.9	12	0	3	0	2	0
7	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D							
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D							
8	PREFIX	5.28	EW	1.58	lb ai/a	2.4	pt/a	PRE	A	12.9	18	2	4	1	0	0
8	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D							
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D							
9	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	13.1	12	2	2	2	0	0
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D							
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D							
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-6"W-2	D	12.8	18			1	0	0
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D							
11	PYTHON	80	WG	0.025	lb ai/a	0.5	oz/a	PRE	A	13.0	21	0	0	0	0	0
11	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-2	D							
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D							
12	PYTHON	80	WG	0.04	lb ai/a	0.8	oz/a	PRE	A	13.0	16	1	0	0	0	0
12	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-2	D							
12	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D							
13	GF-1280	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-1	B	13.1	36			0	0	0
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-1	B							
13	GF-1280	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"RG	E							
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"RG	E							
14	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-1	B	14.6	19			0	0	0
14	FIRSTRATE	84	WG	0.016	lb ai/a	0.3	oz/a	3-6"W-1	B							
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-1	B							
15	GANGSTER (MULTI-PACK)							PRE	A	12.9	14	5	2	0	0	0
15	->GANGSTER V	51	WG	0.048	lb ai/a	1.5	oz/a	PRE	A							
15	->GANGSTER FR	84	WG	0.0157	lb ai/a	0.3	oz/a	PRE	A							
15	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-2	D							
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D							
16	DOMAIN	60	WG	0.375	lb ai/a	10	oz/a	PRE	A	13.0	10	0	0	0	0	0
16	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D							
16	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D							
17	DOMAIN	60	WG	0.45	lb ai/a	12	oz/a	PRE	A	12.8	12	1	0	1	0	0
17	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D							
17	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D							

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 Trt-Eval Interval

GLXMA Moisture Percent 10-24-06	GLXMA Yield bu/A 10-24-06	GLXMA Injury Percent 6-6-06 7 DAE	GLXMA Injury Percent 6-13-06 14 DAE	GLXMA Injury Percent 6-30-06 14 DA-D	GLXMA Injury Percent 7-14-06 28 DA-D	GLXMA Injury Percent 7-28-06 42 DA-D
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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Moisture Percent 10-24-06	GLXMA Yield bu/A 10-24-06	GLXMA Injury Percent 6-6-06 7 DAE	GLXMA Injury Percent 6-13-06 14 DAE	GLXMA Injury Percent 6-30-06 14 DA-D	GLXMA Injury Percent 7-14-06 28 DA-D	GLXMA Injury Percent 7-28-06 42 DA-D
18	DOMAIN	60	WG	0.525	lb ai/a	14	oz/a	PRE	A	12.9	9	1	1	2	3	0
18	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D							
18	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D							
19	DOMAIN	60	WG	0.6	lb ai/a	16	oz/a	PRE	A	13.2	10	1	3	0	1	0
19	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D							
19	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D							
20	DOMAIN	60	WG	0.375	lb ai/a	10	oz/a	PRE	A	12.7	19	1	0	0	0	0
20	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A							
20	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D							
20	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D							
21	DOMAIN	60	WG	0.45	lb ai/a	12	oz/a	PRE	A	13.0	19	1	1	0	0	0
21	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A							
21	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D							
21	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D							
22	DOMAIN	60	WG	0.525	lb ai/a	14	oz/a	PRE	A	13.2	21	1	1	0	0	0
22	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A							
22	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D							
22	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D							
23	DOMAIN	60	WG	0.6	lb ai/a	16	oz/a	PRE	A	13.1	27	1	2	0	0	0
23	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A							
23	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D							
23	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D							
24	DOMAIN	60	WG	0.525	lb ai/a	14	oz/a	PRE	A	13.1	24	2	1	0	0	0
24	SCEPTER	70	WG	0.122	lb ai/a	2.8	oz/a	PRE	A							
24	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D							
24	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D							
25	DOMAIN	60	WG	0.45	lb ai/a	12	oz/a	PRE	A	13.0	25	5	20	0	0	0
25	ENCOMPASS	51	WG	0.064	lb ai/a	2	oz/a	PRE	A							
25	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D							
25	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D							
LSD (P=.05)										0.96	13.5	1.8	1.7	2.5	2.1	0.0
Replicate F										0.339	2.086	0.260	0.413	1.983	0.620	0.000
Replicate Prob(F)										0.7143	0.1353	0.7721	0.6644	0.1488	0.5423	1.0000
Treatment F										1.085	2.391	5.119	51.166	1.373	1.194	0.000
Treatment Prob(F)										0.3955	0.0051	0.0001	0.0001	0.1724	0.2938	1.0000

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Location: Belleville Research Center

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	XANST	XANST	XANST	XANST
										Control Percent 6-13-06 14 DAE	Control Percent 6-30-06 14 DA-D	Control Percent 7-14-06 28 DA-D	Control Percent 7-28-06 42 DA-D
1	NONTREATED									0	0	0	0
2	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	0	98	96	77
2	EXTREME	2.17	SL	0.81	lb ai/a	3	pt/a	3-6"W-2	D				
2	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	3-6"W-2	D				
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
3	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A	3	98	94	67
3	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A				
3	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-6"W-2	D				
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
4	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	0	98	95	74
4	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
4	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-6"W-2	D				
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
5	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	3	92	82	52
5	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	3-4"W	C				
5	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3-4"W	C				
5	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	3-4"W	C				
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4"W	C				
6	PREFIX	5.28	EW	0.99	lb ai/a	1.5	pt/a	PRE	A	0	97	95	69
6	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D				
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
7	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	0	97	94	53
7	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D				
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
8	PREFIX	5.28	EW	1.58	lb ai/a	2.4	pt/a	PRE	A	10	98	95	77
8	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D				
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
9	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	0	97	89	58
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D				
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-6"W-2	D		99	91	72
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
11	PYTHON	80	WG	0.025	lb ai/a	0.5	oz/a	PRE	A	0	98	95	76
11	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-2	D				
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
12	PYTHON	80	WG	0.04	lb ai/a	0.8	oz/a	PRE	A	0	98	94	62
12	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-2	D				
12	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
13	GF-1280	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-1	B		98	97	99
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-1	B				
13	GF-1280	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"RG	E				
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"RG	E				
14	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-1	B		99	97	91
14	FIRSTRATE	84	WG	0.016	lb ai/a	0.3	oz/a	3-6"W-1	B				
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-1	B				
15	GANGSTER (MULTI-PACK)							PRE	A	55	97	92	50
15	->GANGSTER V	51	WG	0.048	lb ai/a	1.5	oz/a	PRE	A				
15	->GANGSTER FR	84	WG	0.0157	lb ai/a	0.3	oz/a	PRE	A				
15	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-2	D				
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
16	DOMAIN	60	WG	0.375	lb ai/a	10	oz/a	PRE	A	12	97	93	64
16	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
16	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
17	DOMAIN	60	WG	0.45	lb ai/a	12	oz/a	PRE	A	0	97	89	52
17	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
17	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				

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Investigator: Bryan Young

Location: Belleville Research Center

								XANST	XANST	XANST	XANST		
								Control	Control	Control	Control		
								Percent	Percent	Percent	Percent		
								6-13-06	6-30-06	7-14-06	7-28-06		
								14 DAE	14 DA-D	28 DA-D	42 DA-D		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
18	DOMAIN	60	WG	0.525	lb ai/a	14	oz/a	PRE	A	20	97	92	64
18	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
18	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
19	DOMAIN	60	WG	0.6	lb ai/a	16	oz/a	PRE	A	36	97	92	63
19	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
19	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
20	DOMAIN	60	WG	0.375	lb ai/a	10	oz/a	PRE	A	0	98	95	68
20	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A				
20	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
20	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
21	DOMAIN	60	WG	0.45	lb ai/a	12	oz/a	PRE	A	12	97	94	67
21	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A				
21	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
21	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
22	DOMAIN	60	WG	0.525	lb ai/a	14	oz/a	PRE	A	27	96	90	52
22	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A				
22	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
22	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
23	DOMAIN	60	WG	0.6	lb ai/a	16	oz/a	PRE	A	27	97	94	68
23	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A				
23	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
23	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
24	DOMAIN	60	WG	0.525	lb ai/a	14	oz/a	PRE	A	23	97	96	80
24	SCEPTER	70	WG	0.122	lb ai/a	2.8	oz/a	PRE	A				
24	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
24	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
25	DOMAIN	60	WG	0.45	lb ai/a	12	oz/a	PRE	A	45	97	94	70
25	ENCOMPASS	51	WG	0.064	lb ai/a	2	oz/a	PRE	A				
25	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
25	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
LSD (P=.05)								24.3	1.4	6.5	30.2		
Replicate F								6.108	0.684	1.001	0.284		
Replicate Prob(F)								0.0047	0.5097	0.3751	0.7542		
Treatment F								3.775	1623.573	69.359	2.911		
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0008		

General Evaluation of Sequential Herbicide Programs in Soybean.

Project Code: 06-6A-W150
Investigator: Bryan Young

Location: Belleville Research Center

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	SETFA	SETFA	SETFA	SETFA
										Control Percent	Control Percent	Control Percent	Control Percent
										6-13-06	6-30-06	7-14-06	7-28-06
										14 DAE	14 DA-D	28 DA-D	42 DA-D
1	NONTREATED									0	0	0	0
2	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	75	99	99	97
2	EXTREME	2.17	SL	0.81	lb ai/a	3	pt/a	3-6"W-2	D				
2	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	3-6"W-2	D				
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
3	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A	80	99	98	94
3	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A				
3	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-6"W-2	D				
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
4	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	80	99	97	93
4	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
4	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-6"W-2	D				
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
5	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	73	93	73	57
5	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	3-4"W	C				
5	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3-4"W	C				
5	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	3-4"W	C				
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4"W	C				
6	PREFIX	5.28	EW	0.99	lb ai/a	1.5	pt/a	PRE	A	92	99	97	92
6	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D				
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
7	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	93	99	98	92
7	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D				
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
8	PREFIX	5.28	EW	1.58	lb ai/a	2.4	pt/a	PRE	A	96	99	98	94
8	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D				
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
9	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	95	99	95	82
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D				
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-6"W-2	D		99	95	77
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
11	PYTHON	80	WG	0.025	lb ai/a	0.5	oz/a	PRE	A	0	99	96	80
11	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-2	D				
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
12	PYTHON	80	WG	0.04	lb ai/a	0.8	oz/a	PRE	A	0	99	96	80
12	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-2	D				
12	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
13	GF-1280	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-1	B		99	97	98
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-1	B				
13	GF-1280	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"RG	E				
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"RG	E				
14	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-1	B		99	95	75
14	FIRSTRATE	84	WG	0.016	lb ai/a	0.3	oz/a	3-6"W-1	B				
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-1	B				
15	GANGSTER (MULTI-PACK)							PRE	A	62	98	97	88
15	->GANGSTER V	51	WG	0.048	lb ai/a	1.5	oz/a	PRE	A				
15	->GANGSTER FR	84	WG	0.0157	lb ai/a	0.3	oz/a	PRE	A				
15	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-2	D				
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
16	DOMAIN	60	WG	0.375	lb ai/a	10	oz/a	PRE	A	93	98	95	73
16	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
16	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
17	DOMAIN	60	WG	0.45	lb ai/a	12	oz/a	PRE	A	88	98	95	75
17	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
17	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				

General Evaluation of Sequential Herbicide Programs in Soybean.

Project Code: 06-6A-W150
Investigator: Bryan Young

Location: Belleville Research Center

Weed Code	SETFA	SETFA	SETFA	SETFA
Crop Code				
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date	6-13-06	6-30-06	7-14-06	7-28-06
Trt-Eval Interval	14 DAE	14 DA-D	28 DA-D	42 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
18	DOMAIN	60	WG	0.525	lb ai/a	14	oz/a	PRE	A	91	98	95	73
18	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
18	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
19	DOMAIN	60	WG	0.6	lb ai/a	16	oz/a	PRE	A	96	99	94	81
19	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
19	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
20	DOMAIN	60	WG	0.375	lb ai/a	10	oz/a	PRE	A	90	98	95	77
20	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A				
20	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
20	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
21	DOMAIN	60	WG	0.45	lb ai/a	12	oz/a	PRE	A	82	99	97	91
21	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A				
21	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
21	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
22	DOMAIN	60	WG	0.525	lb ai/a	14	oz/a	PRE	A	93	99	97	91
22	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A				
22	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
22	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
23	DOMAIN	60	WG	0.6	lb ai/a	16	oz/a	PRE	A	96	99	96	93
23	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A				
23	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
23	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
24	DOMAIN	60	WG	0.525	lb ai/a	14	oz/a	PRE	A	95	98	97	91
24	SCEPTER	70	WG	0.122	lb ai/a	2.8	oz/a	PRE	A				
24	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
24	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
25	DOMAIN	60	WG	0.45	lb ai/a	12	oz/a	PRE	A	95	98	96	92
25	ENCOMPASS	51	WG	0.064	lb ai/a	2	oz/a	PRE	A				
25	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
25	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
LSD (P=.05)										5.5	1.3	3.4	10.1
Replicate F										0.298	0.141	0.155	1.146
Replicate Prob(F)										0.7437	0.8690	0.8566	0.3264
Treatment F										277.088	1761.814	275.887	30.928
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

General Evaluation of Sequential Herbicide Programs in Soybean.

Project Code: 06-6A-W150
Investigator: Bryan Young

Location: Belleville Research Center

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	AMATA	AMATA	AMATA	AMATA
										Control Percent 6-13-06 14 DAE	Control Percent 6-30-06 14 DA-D	Control Percent 7-14-06 28 DA-D	Control Percent 7-28-06 42 DA-D
1	NONTREATED									0	0	0	0
2	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	99	99	97	88
2	EXTREME	2.17	SL	0.81	lb ai/a	3	pt/a	3-6"W-2	D				
2	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	3-6"W-2	D				
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
3	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A	99	99	98	96
3	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A				
3	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-6"W-2	D				
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
4	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	99	99	98	98
4	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
4	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-6"W-2	D				
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
5	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	99	99	98	96
5	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	3-4"W	C				
5	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3-4"W	C				
5	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	3-4"W	C				
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4"W	C				
6	PREFIX	5.28	EW	0.99	lb ai/a	1.5	pt/a	PRE	A	98	99	98	98
6	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D				
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
7	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	99	99	99	98
7	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D				
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
8	PREFIX	5.28	EW	1.58	lb ai/a	2.4	pt/a	PRE	A	99	99	99	99
8	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D				
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
9	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	99	99	99	99
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D				
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-6"W-2	D		99	94	73
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
11	PYTHON	80	WG	0.025	lb ai/a	0.5	oz/a	PRE	A	0	99	98	90
11	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-2	D				
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
12	PYTHON	80	WG	0.04	lb ai/a	0.8	oz/a	PRE	A	0	99	97	73
12	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-2	D				
12	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
13	GF-1280	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-1	B		99	98	99
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-1	B				
13	GF-1280	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"RG	E				
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"RG	E				
14	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-1	B		99	96	80
14	FIRSTRATE	84	WG	0.016	lb ai/a	0.3	oz/a	3-6"W-1	B				
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-1	B				
15	GANGSTER (MULTI-PACK)							PRE	A	96	99	98	98
15	->GANGSTER V	51	WG	0.048	lb ai/a	1.5	oz/a	PRE	A				
15	->GANGSTER FR	84	WG	0.0157	lb ai/a	0.3	oz/a	PRE	A				
15	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-2	D				
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
16	DOMAIN	60	WG	0.375	lb ai/a	10	oz/a	PRE	A	99	99	98	96
16	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
16	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
17	DOMAIN	60	WG	0.45	lb ai/a	12	oz/a	PRE	A	99	98	94	77
17	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
17	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				

General Evaluation of Sequential Herbicide Programs in Soybean.

Project Code: 06-6A-W150
Investigator: Bryan Young

Location: Belleville Research Center

Weed Code	AMATA	AMATA	AMATA	AMATA
Crop Code				
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date	6-13-06	6-30-06	7-14-06	7-28-06
Trt-Eval Interval	14 DAE	14 DA-D	28 DA-D	42 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
18	DOMAIN	60	WG	0.525	lb ai/a	14	oz/a	PRE	A	99	99	98	94
18	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
18	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
19	DOMAIN	60	WG	0.6	lb ai/a	16	oz/a	PRE	A	99	99	98	95
19	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
19	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
20	DOMAIN	60	WG	0.375	lb ai/a	10	oz/a	PRE	A	99	99	96	86
20	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A				
20	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
20	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
21	DOMAIN	60	WG	0.45	lb ai/a	12	oz/a	PRE	A	99	99	98	98
21	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A				
21	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
21	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
22	DOMAIN	60	WG	0.525	lb ai/a	14	oz/a	PRE	A	99	99	98	97
22	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A				
22	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
22	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
23	DOMAIN	60	WG	0.6	lb ai/a	16	oz/a	PRE	A	99	99	97	96
23	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A				
23	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
23	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
24	DOMAIN	60	WG	0.525	lb ai/a	14	oz/a	PRE	A	99	96	96	92
24	SCEPTER	70	WG	0.122	lb ai/a	2.8	oz/a	PRE	A				
24	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
24	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
25	DOMAIN	60	WG	0.45	lb ai/a	12	oz/a	PRE	A	99	99	98	98
25	ENCOMPASS	51	WG	0.064	lb ai/a	2	oz/a	PRE	A				
25	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
25	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
LSD (P=.05)										2.0	1.8	4.1	18.2
Replicate F										0.618	0.873	0.066	0.871
Replicate Prob(F)										0.5439	0.4241	0.9361	0.4250
Treatment F										2415.201	971.675	183.165	10.030
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

General Evaluation of Sequential Herbicide Programs in Soybean.

Project Code: 06-6A-W150
Investigator: Bryan Young

Location: Belleville Research Center

Weed Code	IPOSS	IPOSS	IPOSS	IPOSS
Crop Code	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent
Rating Unit	6-13-06	6-30-06	7-14-06	7-28-06
Rating Date	14 DAE	14 DA-D	28 DA-D	42 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	0
2	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	85	97	97	88
2	EXTREME	2.17	SL	0.81	lb ai/a	3	pt/a	3-6"W-2	D				
2	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	3-6"W-2	D				
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
3	SCEPTER	70	WG	0.092	lb ai/a	2.1	oz/a	PRE	A	80	98	97	91
3	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A				
3	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-6"W-2	D				
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
4	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	88	96	96	88
4	CORNERSTONE	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
4	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-6"W-2	D				
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
5	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	PRE	A	56	85	91	77
5	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	3-4"W	C				
5	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3-4"W	C				
5	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	3-4"W	C				
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4"W	C				
6	PREFIX	5.28	EW	0.99	lb ai/a	1.5	pt/a	PRE	A	60	95	92	82
6	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D				
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
7	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	A	80	97	96	86
7	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D				
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
8	PREFIX	5.28	EW	1.58	lb ai/a	2.4	pt/a	PRE	A	75	96	96	85
8	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D				
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
9	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	81	96	94	83
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-6"W-2	D				
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-6"W-2	D		96	92	78
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
11	PYTHON	80	WG	0.025	lb ai/a	0.5	oz/a	PRE	A	0	97	96	85
11	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-2	D				
11	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
12	PYTHON	80	WG	0.04	lb ai/a	0.8	oz/a	PRE	A	0	95	94	82
12	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-2	D				
12	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
13	GF-1280	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-1	B		96	96	98
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-1	B				
13	GF-1280	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"RG	E				
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"RG	E				
14	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-1	B		97	95	83
14	FIRSTRATE	84	WG	0.016	lb ai/a	0.3	oz/a	3-6"W-1	B				
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-1	B				
15	GANGSTER (MULTI-PACK)							PRE	A	87	96	94	85
15	->GANGSTER V	51	WG	0.048	lb ai/a	1.5	oz/a	PRE	A				
15	->GANGSTER FR	84	WG	0.0157	lb ai/a	0.3	oz/a	PRE	A				
15	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-6"W-2	D				
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-6"W-2	D				
16	DOMAIN	60	WG	0.375	lb ai/a	10	oz/a	PRE	A	40	95	95	85
16	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
16	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
17	DOMAIN	60	WG	0.45	lb ai/a	12	oz/a	PRE	A	96	97	96	77
17	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
17	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				

General Evaluation of Sequential Herbicide Programs in Soybean.

Project Code: 06-6A-W150
Investigator: Bryan Young

Location: Belleville Research Center

Weed Code	IPOSS	IPOSS	IPOSS	IPOSS
Crop Code				
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date	6-13-06	6-30-06	7-14-06	7-28-06
Trt-Eval Interval	14 DAE	14 DA-D	28 DA-D	42 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
18	DOMAIN	60	WG	0.525	lb ai/a	14	oz/a	PRE	A	80	97	93	82
18	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
18	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
19	DOMAIN	60	WG	0.6	lb ai/a	16	oz/a	PRE	A	76	95	94	77
19	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
19	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
20	DOMAIN	60	WG	0.375	lb ai/a	10	oz/a	PRE	A	80	96	95	83
20	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A				
20	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
20	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
21	DOMAIN	60	WG	0.45	lb ai/a	12	oz/a	PRE	A	89	97	98	94
21	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A				
21	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
21	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
22	DOMAIN	60	WG	0.525	lb ai/a	14	oz/a	PRE	A	86	97	96	93
22	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A				
22	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
22	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
23	DOMAIN	60	WG	0.6	lb ai/a	16	oz/a	PRE	A	78	96	97	94
23	SCEPTER	70	WG	0.063	lb ai/a	1.44	oz/a	PRE	A				
23	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
23	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
24	DOMAIN	60	WG	0.525	lb ai/a	14	oz/a	PRE	A	79	96	96	93
24	SCEPTER	70	WG	0.122	lb ai/a	2.8	oz/a	PRE	A				
24	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
24	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
25	DOMAIN	60	WG	0.45	lb ai/a	12	oz/a	PRE	A	91	98	98	94
25	ENCOMPASS	51	WG	0.064	lb ai/a	2	oz/a	PRE	A				
25	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	3-6"W-2	D				
25	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	3-6"W-2	D				
LSD (P=.05)										30.1	3.0	3.6	9.2
Replicate F										1.767	2.251	3.622	5.556
Replicate Prob(F)										0.1833	0.1163	0.0343	0.0068
Treatment F										8.172	341.410	225.575	32.250
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

Trial Comments

1. Protocol: BASF, Syngenta, Dow AgroSciences, Tenkoz (Rosen's).
2. Ratings: CI 7 DAE; CI/WC 14 DAE; CI/WC 28 DAE or just prior to POST ("D"); CI/WC 14, 28 + 42 DA "D".
3. Yield.
4. Spraying instructions at application "D": Spray treatment 10 the same day as the Touchdown in treatments 6-9. Note any differences in weed size.
5. DAE = Days after crop emergence. DA-D = Days after 3-6"W-2 application.
Ratings at 14 DAE were also 3 days prior to the 3-6"W-1 and 3-6"W-2 applications, 1 day after 3-4"W application, and 19 days after the PRE application.
Ratings at 14 DA-D were also 14, 18, and 36 days after the 3-6"W-1, 3-4"W, and PRE applications, respectively.
6. IPOSS was IPOHE (ivyleaf morningglory) and IPOLA (pitted morningglory).
7. Harvested 10-24-06, (2) 30 inch rows by 22 ft.