

No-Till Soybean Weed Control Studies

12-12-06 (06-2B-ME90)

Southern Illinois University

Preplant Soybean Herbicide Programs.

Project Code: 06-2B-ME90 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: 8-1-06

Objective:
Evaluate preplant herbicide applications in no-till soybean for burndown and residual efficacy.

Weed Code	Common Name	Scientific Name
1.	HORPU barley, little	Hordeum pusillum Nutt.
2.	RANAB buttercup, smallflower	Ranunculus abortivus L.
3.	VERPG speedwell, purslane	Veronica peregrina L.
4.	STEME chickweed, common	Stellaria media (L.) Vill.
5.	AMBEL ragweed, common	Ambrosia artemisiifolia L.
6.	AMBTR ragweed, giant	Ambrosia trifida L.
7.	SETFA foxtail, giant	Setaria faberi Herrm.
8.	AMATA waterhemp, common	Amaranthus rudis Sauer
9.	ERICA horseweed	Conyza canadensis (L.) Crong.

Crop 1: GLXMA soybean Variety: Asgrow 4403 RR
Planting Method: Seeded Planting Date: 5-23-06
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:	5-2-06	5-17-06	6-20-06
Time of Day:	15:30	10:30	10:30
Application Method:	Spray	Spray	Spray
Application Timing:	EPP14	EPP7	28DAP
Applic. Placement:	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	78 F	70 F	84 F
% Relative Humidity:	46	74	71
Wind Velocity, Unit:	1-2 MPH	3-5 MPH	7 MPH
Soil Moisture:	NORMAL	NORMAL	BELNOR

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GLXMA NA	GLXMA NA	GLXMA V3
Height, Unit:	NA NA	NA NA	8 IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code:	HORPU	HORPU	
Stage (leaves):	5-6	3-4	
Height (inches):	3-4	12-14	
Density:	Low	Medium	
Weed 2 Code:	RANAB		
Stage (leaves):	16-18		
Height (inches):	8-10		
Density:	Medium		
Weed 3 Code:	VERPG		
Stage (leaves):	12-14		
Height (inches):	5-6		
Density:	Medium		
Weed 4 Code:	STEME		
Stage (leaves):	22-24		
Height (inches):	6-7		
Density:	Medium		
Weed 5 Code:	AMBEL	AMBEL	AMBEL
Stage (leaves):	4-6	6-8	2-8
Height (inches):	3-4	4-5	1-9
Density:	Low	Low	Low
Weed 6 Code:	AMBTR	AMBTR	AMBTR
Stage (leaves):	6-8	10-12	5-34
Height (inches):	4-5	6-8	2-16
Density:	Medium	Low	Medium
Weed 7 Code:			SETFA
Stage (leaves):			3-6
Height (inches):			2-8
Density:			Medium

Preplant Soybean Herbicide Programs.

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Weed Code								HORPU		HORPU		RANAB		RANAB		VERPG		VERPG		STEME		STEME	
Crop Code								Control		Control		Control		Control		Control		Control		Control		Control	
Rating Data Type								Percent		Percent		Percent		Percent		Percent		Percent		Percent		Percent	
Rating Unit								5-9-06		5-16-06		5-9-06		5-16-06		5-9-06		5-16-06		5-9-06		5-16-06	
Rating Date								7 DA-A		14 DA-A		7 DA-A		14 DA-A		7 DA-A		14 DA-A		7 DA-A		14 DA-A	
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	0	0	0	0	0	0	0	0	0	0
2	SPARTAN	4 L		0.167	lb ai/a	5.34	fl oz/a	EPP14	A														
2	FIRSTRATE	84 WG		0.021	lb ai/a	0.4	oz/a	EPP14	A														
2	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	EPP14	A														
2	AMS	100 DRY		2.0	% w/w	17	lb/100 gal	EPP14	A														
2	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	28DAP	C														
2	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C														
3	SPARTAN	4 L		0.167	lb ai/a	5.34	fl oz/a	EPP14	A														
3	PURSUIT	2 SL		0.063	lb ai/a	4.03	fl oz/a	EPP14	A														
3	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	EPP14	A														
3	AMS	100 DRY		2.0	% w/w	17	lb/100 gal	EPP14	A														
3	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	28DAP	C														
3	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C														
4	SPARTAN	4 L		0.167	lb ai/a	5.34	fl oz/a	EPP14	A														
4	SENCOR	75 WG		0.098	lb ai/a	2.1	oz/a	EPP14	A														
4	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	EPP14	A														
4	AMS	100 DRY		2.0	% w/w	17	lb/100 gal	EPP14	A														
4	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	28DAP	C														
4	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C														
5	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	EPP14	A														
5	PURSUIT	2 SL		0.0312	lb ai/a	2	fl oz/a	EPP14	A														
5	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A														
5	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	28DAP	C														
5	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C														
6	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	EPP14	A														
6	PURSUIT	2 SL		0.047	lb ai/a	3	fl oz/a	EPP14	A														
6	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A														
6	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	28DAP	C														
6	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C														
7	EXTREME	2.17 SL		0.81	lb ai/a	3	pt/a	EPP14	A														
7	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A														
7	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	28DAP	C														
7	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C														
8	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	EPP14	A														
8	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A														
8	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	28DAP	C														
8	PURSUIT	2 SL		0.0312	lb ai/a	2	fl oz/a	28DAP	C														
8	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C														
9	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	EPP14	A														
9	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A														
9	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	28DAP	C														
9	PURSUIT	2 SL		0.047	lb ai/a	3	fl oz/a	28DAP	C														
9	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C														
10	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	EPP14	A														
10	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A														
10	EXTREME	2.17 SL		0.81	lb ai/a	3	pt/a	28DAP	C														
10	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C														
11	CANOPY EX	29.5 WG				1.1	oz/a	EPP7	B														
11	->CLASSIC	25 WG		0.0156	lb ai/a			EPP7	B														
11	->EXPRESS	50 SG		0.0047	lb ai/a			EPP7	B														
11	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	oz/a	EPP7	B														
11	2,4-D LV4	3.8 EC		0.475	lb ae/a	1	pt/a	EPP7	B														
11	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP7	B														
11	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	28DAP	C														
11	AMS	100 DRY		2.0	% w/w	17	lb/100 gal	28DAP	C														
12	CANOPY EX	29.5 WG				1.65	oz/a	EPP7	B														
12	->CLASSIC	25 WG		0.0234	lb ai/a			EPP7	B														
12	->EXPRESS	50 SG		0.0071	lb ai/a			EPP7	B														
12	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	oz/a	EPP7	B														
12	2,4-D LV4	3.8 EC		0.475	lb ae/a	1	pt/a	EPP7	B														
12	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP7	B														
12	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	28DAP	C														
12	AMS	100 DRY		2.0	% w/w	17	lb/100 gal	28DAP	C														

Preplant Soybean Herbicide Programs.

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	HORPU	HORPU	RANAB	RANAB	VERPG	VERPG	STEME	STEME					
						Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent					
						5-9-06	5-16-06	5-9-06	5-16-06	5-9-06	5-16-06	5-9-06	5-16-06					
						7 DA-A	14 DA-A	7 DA-A	14 DA-A	7 DA-A	14 DA-A	7 DA-A	14 DA-A					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code									
13	CANOPY EX	29.5	WG			2.2	oz/a		EPP7	B								
13	->CLASSIC	25	WG	0.0313	lb ai/a				EPP7	B								
13	->EXPRESS	50	SG	0.0094	lb ai/a				EPP7	B								
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	oz/a		EPP7	B								
13	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a		EPP7	B								
13	AMS	100	DRY	2	% w/w	17	lb/100 gal		EPP7	B								
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		28DAP	C								
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal		28DAP	C								
14	CANOPY	75	WG	0.105	lb ai/a	2.25	oz/a		EPP7	B								
14	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	oz/a		EPP7	B								
14	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a		EPP7	B								
14	AMS	100	DRY	2	% w/w	17	lb/100 gal		EPP7	B								
14	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		28DAP	C								
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal		28DAP	C								
15	CANOPY	75	WG	0.164	lb ai/a	3.5	oz/a		EPP7	B								
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	oz/a		EPP7	B								
15	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a		EPP7	B								
15	AMS	100	DRY	2	% w/w	17	lb/100 gal		EPP7	B								
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		28DAP	C								
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal		28DAP	C								
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	oz/a		EPP7	B								
16	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a		EPP7	B								
16	AMS	100	DRY	2	% w/w	17	lb/100 gal		EPP7	B								
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		28DAP	C								
16	AMS	100	DRY	2.0	% w/w	17	lb/100 gal		28DAP	C								
17	AIM	2	EW	0.0078	lb ai/a	0.5	fl oz/a		EPP14	A	88	99	78	93	58	85	88	99
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		EPP14	A								
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal		EPP14	A								
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		28DAP	C								
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal		28DAP	C								
18	AIM	2	EW	0.0078	lb ai/a	0.5	fl oz/a		EPP14	A	85	99	60	95	45	90	85	99
18	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a		EPP14	A								
18	2,4-D LV4	3.8	EC	0.237	lb ae/a	8	fl oz/a		EPP14	A								
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal		EPP14	A								
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		28DAP	C								
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal		28DAP	C								
LSD (P=.05)						8.9		0.8	13.6	3.8	31.3	28.7	11.0	0.8				
Replicate F						3.455		4.000	1.000	1.000	0.026	0.500	1.529	1.000				
Replicate Prob(F)						0.1344		0.1111	0.4444	0.4444	0.9744	0.6667	0.3211	0.4444				
Treatment F						492.182		87616.009	139.462	3193.000	34.658	115.125	318.471	87913.009				
Treatment Prob(F)						0.0001		0.0001	0.0002	0.0001	0.0280	0.0086	0.0001	0.0001				

Preplant Soybean Herbicide Programs.

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	AMBEL	AMBEL	AMBEL	AMBEL	AMBTR	AMBTR	AMBTR	AMBTR
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	Control Percent	Control Percent	Control Percent	Control Percent
										5-9-06	5-16-06	6-20-06	7-18-06
										7 DA-A	14 DA-A	0 DA-C	28 DA-C
1	NONTREATED									0	0	0	0
2	SPARTAN	4 L		0.167	lb ai/a	5.34	fl oz/a	EPP14	A	99	99		96
2	FIRSTRATE	84 WG		0.021	lb ai/a	0.4	oz/a	EPP14	A				
2	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	EPP14	A				
2	AMS	100 DRY		2.0	% w/w	17	lb/100 gal	EPP14	A				
2	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	28DAP	C				
2	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C				
3	SPARTAN	4 L		0.167	lb ai/a	5.34	fl oz/a	EPP14	A	85	99		88
3	PURSUIT	2 SL		0.063	lb ai/a	4.03	fl oz/a	EPP14	A				
3	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	EPP14	A				
3	AMS	100 DRY		2.0	% w/w	17	lb/100 gal	EPP14	A				
3	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	28DAP	C				
3	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C				
4	SPARTAN	4 L		0.167	lb ai/a	5.34	fl oz/a	EPP14	A	63	99		78
4	SENCOR	75 WG		0.098	lb ai/a	2.1	oz/a	EPP14	A				
4	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	EPP14	A				
4	AMS	100 DRY		2.0	% w/w	17	lb/100 gal	EPP14	A				
4	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	28DAP	C				
4	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C				
5	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	EPP14	A	57	99		88
5	PURSUIT	2 SL		0.0312	lb ai/a	2	fl oz/a	EPP14	A				
5	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A				
5	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	28DAP	C				
5	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C				
6	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	EPP14	A	68	99		87
6	PURSUIT	2 SL		0.047	lb ai/a	3	fl oz/a	EPP14	A				
6	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A				
6	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	28DAP	C				
6	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C				
7	EXTREME	2.17 SL		0.81	lb ai/a	3	pt/a	EPP14	A	80	99		98
7	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A				
7	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	28DAP	C				
7	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C				
8	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	EPP14	A	47	99		90
8	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A				
8	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	28DAP	C				
8	PURSUIT	2 SL		0.0312	lb ai/a	2	fl oz/a	28DAP	C				
8	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C				
9	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	EPP14	A	43	99		87
9	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A				
9	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	28DAP	C				
9	PURSUIT	2 SL		0.047	lb ai/a	3	fl oz/a	28DAP	C				
9	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C				
10	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	EPP14	A	47	99		93
10	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A				
10	EXTREME	2.17 SL		0.81	lb ai/a	3	pt/a	28DAP	C				
10	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C				
11	CANOPY EX	29.5 WG				1.1	oz/a	EPP7	B	99	99		99
11	->CLASSIC	25 WG		0.0156	lb ai/a			EPP7	B				
11	->EXPRESS	50 SG		0.0047	lb ai/a			EPP7	B				
11	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	oz/a	EPP7	B				
11	2,4-D LV4	3.8 EC		0.475	lb ae/a	1	pt/a	EPP7	B				
11	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP7	B				
11	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	28DAP	C				
11	AMS	100 DRY		2.0	% w/w	17	lb/100 gal	28DAP	C				
12	CANOPY EX	29.5 WG				1.65	oz/a	EPP7	B	99	99		99
12	->CLASSIC	25 WG		0.0234	lb ai/a			EPP7	B				
12	->EXPRESS	50 SG		0.0071	lb ai/a			EPP7	B				
12	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	oz/a	EPP7	B				
12	2,4-D LV4	3.8 EC		0.475	lb ae/a	1	pt/a	EPP7	B				
12	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP7	B				
12	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	28DAP	C				
12	AMS	100 DRY		2.0	% w/w	17	lb/100 gal	28DAP	C				

Preplant Soybean Herbicide Programs.

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 Investigator: Bryan Young

Weed Code	AMBEL	AMBEL	AMBEL	AMBEL	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code								
Rating Data Type	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	5-9-06	5-16-06	6-20-06	7-18-06	5-9-06	5-16-06	6-20-06	7-18-06
Trt-Eval Interval	7 DA-A	14 DA-A	0 DA-C	28 DA-C	7 DA-A	14 DA-A	0 DA-C	28 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
13	CANOPY EX	29.5	WG			2.2	oz/a	EPP7	B		99	99		99	99		
13	->CLASSIC	25	WG	0.0313	lb ai/a			EPP7	B								
13	->EXPRESS	50	SG	0.0094	lb ai/a			EPP7	B								
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	oz/a	EPP7	B								
13	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP7	B								
13	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPP7	B								
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C								
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	28DAP	C								
14	CANOPY	75	WG	0.105	lb ai/a	2.25	oz/a	EPP7	B		98	99		98	98		
14	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	oz/a	EPP7	B								
14	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP7	B								
14	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPP7	B								
14	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C								
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	28DAP	C								
15	CANOPY	75	WG	0.164	lb ai/a	3.5	oz/a	EPP7	B		99	99		98	99		
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	oz/a	EPP7	B								
15	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP7	B								
15	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPP7	B								
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C								
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	28DAP	C								
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	oz/a	EPP7	B		73	99		98	98		
16	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP7	B								
16	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPP7	B								
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C								
16	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	28DAP	C								
17	AIM	2	EW	0.0078	lb ai/a	0.5	fl oz/a	EPP14	A	67	99	63	99	67	93	82	98
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPP14	A								
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	EPP14	A								
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C								
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	28DAP	C								
18	AIM	2	EW	0.0078	lb ai/a	0.5	fl oz/a	EPP14	A	70	99	72	99	73	96	89	99
18	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	EPP14	A								
18	2,4-D LV4	3.8	EC	0.237	lb ae/a	8	fl oz/a	EPP14	A								
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	EPP14	A								
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C								
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	28DAP	C								
LSD (P=.05)										33.1	0.0	12.7	0.5	25.4	9.3	10.6	1.3
Replicate F										0.500	0.000	3.203	5.547	0.750	0.860	2.417	0.340
Replicate Prob(F)										0.6667	1.0000	0.0532	0.0082	0.5443	0.4890	0.1044	0.7142
Treatment F										52.625	0.000	36.862	15741.812	51.036	536.420	37.757	2476.455
Treatment Prob(F)										0.0186	1.0000	0.0001	0.0001	0.0048	0.0001	0.0001	0.0001

Preplant Soybean Herbicide Programs.

Project Code: 06-2B-ME90 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	SETFA	SETFA	AMATA	AMATA	ERICA	ERICA	GLXMA	GLXMA	GLXMA			
						Control Percent 6-20-06 0 DA-C	Control Percent 7-18-06 28 DA-C	Control Percent 6-20-06 0 DA-C	Control Percent 7-18-06 28 DA-C	Control Percent 6-20-06 0 DA-C	Control Percent 7-18-06 28 DA-C	Injury Percent 6-6-06 14 DAP	Injury Percent 6-20-06 28 DAP	Injury Percent 7-18-06 56 DAP			
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	0			
2	SPARTAN	4 L		0.167	lb ai/a	5.34	fl oz/a	EPP14	A	75	98	68	97	99	0	0	0
2	FIRSTRATE	84 WG		0.021	lb ai/a	0.4	oz/a	EPP14	A								
2	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	EPP14	A								
2	AMS	100 DRY		2.0	% w/w	17	lb/100 gal	EPP14	A								
2	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	28DAP	C								
2	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C								
3	SPARTAN	4 L		0.167	lb ai/a	5.34	fl oz/a	EPP14	A	88	98	78	97	99	1	0	0
3	PURSUIT	2 SL		0.063	lb ai/a	4.03	fl oz/a	EPP14	A								
3	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	EPP14	A								
3	AMS	100 DRY		2.0	% w/w	17	lb/100 gal	EPP14	A								
3	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	28DAP	C								
3	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C								
4	SPARTAN	4 L		0.167	lb ai/a	5.34	fl oz/a	EPP14	A	30	98	87	96	99	1	0	0
4	SENCOR	75 WG		0.098	lb ai/a	2.1	oz/a	EPP14	A								
4	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	EPP14	A								
4	AMS	100 DRY		2.0	% w/w	17	lb/100 gal	EPP14	A								
4	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	28DAP	C								
4	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C								
5	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	EPP14	A	58	99	0	91	99	0	0	0
5	PURSUIT	2 SL		0.0312	lb ai/a	2	fl oz/a	EPP14	A								
5	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A								
5	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	28DAP	C								
5	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C								
6	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	EPP14	A	75	98	10	89	99	0	0	0
6	PURSUIT	2 SL		0.047	lb ai/a	3	fl oz/a	EPP14	A								
6	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A								
6	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	28DAP	C								
6	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C								
7	EXTREME	2.17 SL		0.81	lb ai/a	3	pt/a	EPP14	A	82	98	10	94	99	0	0	0
7	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A								
7	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	28DAP	C								
7	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C								
8	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	EPP14	A	0	98	0	94	99	0	0	0
8	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A								
8	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	28DAP	C								
8	PURSUIT	2 SL		0.0312	lb ai/a	2	fl oz/a	28DAP	C								
8	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C								
9	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	EPP14	A	10	99	0	96	99	0	0	0
9	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A								
9	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	28DAP	C								
9	PURSUIT	2 SL		0.047	lb ai/a	3	fl oz/a	28DAP	C								
9	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C								
10	GLYFOS X-TRA	3 SL		0.75	lb ae/a	1	qt/a	EPP14	A	7	99	0	94	99	1	0	0
10	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP14	A								
10	EXTREME	2.17 SL		0.81	lb ai/a	3	pt/a	28DAP	C								
10	AMS	100 DRY		2	% w/w	17	lb/100 gal	28DAP	C								
11	CANOPY EX	29.5 WG				1.1	oz/a	EPP7	B	90	97	33	96	99	0	1	0
11	->CLASSIC	25 WG		0.0156	lb ai/a			EPP7	B								
11	->EXPRESS	50 SG		0.0047	lb ai/a			EPP7	B								
11	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	oz/a	EPP7	B								
11	2,4-D LV4	3.8 EC		0.475	lb ae/a	1	pt/a	EPP7	B								
11	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP7	B								
11	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	28DAP	C								
11	AMS	100 DRY		2.0	% w/w	17	lb/100 gal	28DAP	C								
12	CANOPY EX	29.5 WG				1.65	oz/a	EPP7	B	95	98	75	94	99	1	2	0
12	->CLASSIC	25 WG		0.0234	lb ai/a			EPP7	B								
12	->EXPRESS	50 SG		0.0071	lb ai/a			EPP7	B								
12	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	oz/a	EPP7	B								
12	2,4-D LV4	3.8 EC		0.475	lb ae/a	1	pt/a	EPP7	B								
12	AMS	100 DRY		2	% w/w	17	lb/100 gal	EPP7	B								
12	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	28DAP	C								
12	AMS	100 DRY		2.0	% w/w	17	lb/100 gal	28DAP	C								

Preplant Soybean Herbicide Programs.

Project Code: 06-2B-ME90 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	SETFA	SETFA	AMATA	AMATA	ERICA	ERICA	GLXMA	GLXMA	GLXMA
Crop Code	Control	Control	Control	Control	Control	Control	Injury	Injury	Injury
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-20-06	7-18-06	6-20-06	7-18-06	6-20-06	7-18-06	6-6-06	6-20-06	7-18-06
Rating Date	0 DA-C	28 DA-C	0 DA-C	28 DA-C	0 DA-C	28 DA-C	14 DAP	28 DAP	56 DAP
Trt-Eval Interval									

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	SETFA 6-20-06	SETFA 7-18-06	AMATA 6-20-06	AMATA 7-18-06	ERICA 6-20-06	ERICA 7-18-06	GLXMA 6-6-06	GLXMA 6-20-06	GLXMA 7-18-06
13	CANOPY EX	29.5	WG			2.2	oz/a	EPP7	B	97	98	78	95	99	99	2	9	0
13	->CLASSIC	25	WG	0.0313	lb ai/a			EPP7	B									
13	->EXPRESS	50	SG	0.0094	lb ai/a			EPP7	B									
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	oz/a	EPP7	B									
13	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP7	B									
13	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPP7	B									
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C									
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	28DAP	C									
14	CANOPY	75	WG	0.105	lb ai/a	2.25	oz/a	EPP7	B	92	98	82	97	99	99	0	0	0
14	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	oz/a	EPP7	B									
14	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP7	B									
14	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPP7	B									
14	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C									
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	28DAP	C									
15	CANOPY	75	WG	0.164	lb ai/a	3.5	oz/a	EPP7	B	92	97	80	96	99	99	0	0	0
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	oz/a	EPP7	B									
15	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP7	B									
15	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPP7	B									
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C									
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	28DAP	C									
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	oz/a	EPP7	B	20	98	0	92	99	99	1	0	0
16	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP7	B									
16	AMS	100	DRY	2	% w/w	17	lb/100 gal	EPP7	B									
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C									
16	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	28DAP	C									
17	AIM	2	EW	0.0078	lb ai/a	0.5	fl oz/a	EPP14	A	0	98	0	94	99	99	0	0	0
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	EPP14	A									
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	EPP14	A									
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C									
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	28DAP	C									
18	AIM	2	EW	0.0078	lb ai/a	0.5	fl oz/a	EPP14	A	0	98	0	93	99	99	0	0	0
18	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	EPP14	A									
18	2,4-D LV4	3.8	EC	0.237	lb ae/a	8	fl oz/a	EPP14	A									
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	EPP14	A									
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28DAP	C									
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	28DAP	C									
LSD (P=.05)										14.5	1.0	17.1	5.6	0.0	0.0	1.3	2.4	0.0
Replicate F										0.027	2.401	0.007	3.123	0.000	0.000	1.545	1.357	0.000
Replicate Prob(F)										0.9738	0.1059	0.9932	0.0568	1.0000	1.0000	0.2278	0.2710	1.0000
Treatment F										65.500	4245.248	40.654	132.624	0.000	0.000	1.705	6.359	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	1.0000	1.0000	0.0910	0.0001	1.0000

Trial Comments

1. Protocol: FMC, Cheminova, DuPont.
2. Ratings: CI 14, 28+56 DAP; WC prior to "28DAP" application and again at 28 DA "28DAP" application.
Rate trts 17+18 at 7+14 DA "A".
3. DA-A = Days after EPP14 application. DAP = Days after planting. DA-C = Days after 28DAP application.
Ratings at 0 DA-C were prior to the postemergence 28DAP application.
4. Not harvested.