

No-Till Soybean Weed Control Studies

1-25-08 (07-11C-E90)

Southern Illinois University

Weed Management for Conventional Soybean in No-Till.

Project Code: 07-11C-E90 Location: Belleville Research Center
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
Trial Status: Final Updated: 1-23-08

Objective:

Continue to support growers producing non-GMO soybeans by evaluating potential herbicide programs in conventional 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 4404 RR/STS
Planting Method: Seeded Planting Date: 5-21-07
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, 2006
Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 100 LB/A

Soil Name: Ebbert % OM: 2.3 pH: 6.8 CEC: 13
Texture: Silt loam Fert. Level: P1: 83 LB/A, K: 364 LB/A

APPLICATION DESCRIPTION

	A	B
Application Date:	5-7-07	6-11-07
Time of Day:	16:00	11:00
Application Method:	Spray	Spray
Application Timing:	7-14EPP	4"W
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	84 F	76 F
% Relative Humidity:	70	74
Wind Velocity, Unit:	5 MPH	0 MPH
Soil Moisture:	ABONOR	NORMAL
% Cloud Cover:		100

CROP STAGE AT EACH APPLICATION

	A		B	
Crop 1 Code, Stage:	GLXMA	NA	GLXMA	V2
Height, Unit:	NA	NA	5	IN

WEED STAGE AT EACH APPLICATION

	A		B	
Weed 1 Code:	SETFA		SETFA	
Stage(leaves):	2-3		2-6	
Height(inches):	1-2		2-6	
Density:	Low		High	
Weed 2 Code:			AMATA	
Stage(leaves):			4-11	
Height(inches):			2-6	
Density:			High	
Weed 3 Code:	AMBEL			
Stage(leaves):	5-6			
Height(inches):	4-6			
Density:	Low			
Weed 4 Code:			CYPES	
Stage(leaves):			2-4	
Height(inches):			2-6	
Density:			Medium	

APPLICATION EQUIPMENT

	A		B	
Appl. Equipment:	CO2 sprayer		CO2 sprayer	
Operating Pressure:	40 PSI		40 PSI	
Nozzle Type:	Flat fan		Flat fan	
Nozzle Size:	XR 8002		XR 8002	
Boom Length, Unit:	7.5 FT		7.5 FT	
Spray Volume, Unit:	15 GPA		15 GPA	

NOTES:

Weed Management for Conventional Soybean in No-Till.

Project Code: 07-11C-E90 Location: Belleville Research Center
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Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA
 Moisture Yield Injury Injury Injury Injury
 Percent bu/A Percent Percent Percent Percent
 10-21-07 10-21-07 6-11-07 6-25-07 7-9-07 8-6-07
 0 DA-B 14 DA-B 28 DA-B 56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Moisture Percent	GLXMA Yield bu/A	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent
1	NONTREATED									11.2 a	17 e	0 a	0 c	0 a	0 a
2	NO RESIDUAL HERB									11.0 a-d	47 bcd	0 a	7 ab	0 a	0 a
2	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B						
2	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B						
2	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B						
2	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B						
3	SONIC	70	WG	0.14	lb ai/a	3.2	oz/a	7-14EPP	A	11.0 a-d	45 bcd	0 a	8 ab	0 a	0 a
3	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B						
3	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B						
3	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B						
3	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B						
4	SONIC	70	WG	0.28	lb ai/a	6.4	oz/a	7-14EPP	A	10.9 a-d	47 bcd	0 a	7 ab	0 a	0 a
4	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B						
4	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B						
4	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B						
4	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B						
5	CANOPY	75	WG	0.14	lb ai/a	3.0	oz/a	7-14EPP	A	11.0 a-d	45 bcd	0 a	7 ab	0 a	0 a
5	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B						
5	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B						
5	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B						
5	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B						
6	CANOPY	75	WG	0.28	lb ai/a	6.0	oz/a	7-14EPP	A	11.1 ab	47 bcd	0 a	6 b	0 a	0 a
6	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B						
6	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B						
6	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B						
6	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B						
7	PROWL H2O	3.8	CS	0.594	lb ai/a	1.25	pt/a	7-14EPP	A	11.0 a-d	47 bcd	0 a	7 ab	0 a	0 a
7	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B						
7	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B						
7	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B						
7	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B						
8	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	7-14EPP	A	10.9 a-d	43 cd	0 a	7 ab	0 a	0 a
8	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B						
8	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B						
8	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B						
8	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B						
9	VALOR XLT	40.3	WG			3.0	oz/a	7-14EPP	A	10.9 bcd	49 bc	0 a	7 ab	0 a	0 a
9	->VALOR SX	51	WG	0.056	lb ai/a			7-14EPP	A						
9	->CLASSIC	25	WG	0.0194	lb ai/a			7-14EPP	A						
9	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B						
9	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B						
9	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B						
9	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B						
10	VALOR XLT	40.3	WG			5.0	oz/a	7-14EPP	A	10.8 d	46 bcd	0 a	8 ab	0 a	0 a
10	->VALOR SX	51	WG	0.093	lb ai/a			7-14EPP	A						
10	->CLASSIC	25	WG	0.0322	lb ai/a			7-14EPP	A						
10	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B						
10	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B						
10	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B						
10	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B						
11	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	7-14EPP	A	10.9 bcd	53 ab	0 a	7 ab	0 a	0 a
11	SCEPTER	70	WG	0.061	lb ai/a	1.4	oz/a	7-14EPP	A						
11	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B						
11	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B						
11	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B						
11	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B						
12	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	7-14EPP	A	11.1 abc	48 bc	0 a	7 ab	0 a	0 a
12	SCEPTER	70	WG	0.122	lb ai/a	2.8	oz/a	7-14EPP	A						
12	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B						
12	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B						
12	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B						
12	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B						

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 10-21-07 10-21-07 6-11-07 6-25-07 7-9-07 8-6-07
 0 DA-B 14 DA-B 28 DA-B 56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Moisture Percent	GLXMA Yield bu/A	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent
13	PREFIX	5.28	EW	0.66	lb ai/a	1.0	pt/a	7-14EPP	A	11.1 abc	39 d	0 a	9 a	0 a	0 a
13	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B						
13	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B						
13	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B						
13	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B						
14	PREFIX	5.28	EW	1.32	lb ai/a	2.0	pt/a	7-14EPP	A	10.9 a-d	47 bcd	0 a	8 ab	0 a	0 a
14	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B						
14	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B						
14	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B						
14	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B						
15	WEED FREE									10.8 cd	61 a	0 a	0 c	0 a	0 a
15	DUAL MAGNUM	7.62	EC	1.27	lb ai/a	1.33	pt/a	7-14EPP	A						
15	FIRSTRATE	84	WG	0.0315	lb ai/a	0.6	oz/a	7-14EPP	A						
15	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W	B						
15	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4"W	B						
15	HANDWEED														
16	DPX-QER54	41.3	WG			3.5	oz/a	7-14EPP	A	10.9 bcd	45 bcd	0 a	7 ab	0 a	0 a
16	->CLASSIC	25	WG	0.02	lb ai/a			7-14EPP	A						
16	->HARMONY GT XP	50	SG	0.00643	lb ai/a			7-14EPP	A						
16	->VALOR SX	51	WG	0.0635	lb ai/a			7-14EPP	A						
16	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B						
16	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B						
16	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B						
16	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B						
LSD (P=.05)										0.30	9.4	0.0	2.1	0.0	0.0
Replicate F										1.735	7.442	0.000	1.208	0.000	0.000
Replicate Prob(F)										0.1936	0.0024	1.0000	0.3130	1.0000	1.0000
Treatment F										1.240	7.400	0.000	12.543	0.000	0.000
Treatment Prob(F)										0.2977	0.0001	1.0000	0.0001	1.0000	1.0000

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

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 Investigator: Bryan Young

Weed Code	SETFA	SETFA	SETFA	SETFA	AMATA	AMATA	AMATA	AMATA
Crop Code	Control	Control	Control	Control	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-11-07	7-9-07	7-9-07	8-6-07	6-11-07	6-25-07	7-9-07	8-6-07
Rating Date	0 DA-B	14 DA-B	28 DA-B	56 DA-B	0 DA-B	14 DA-B	28 DA-B	56 DA-B
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 f	0 f	0 h	0 h	0 g	0 d	0 e	0 f
2	NO RESIDUAL HERB									0 f	94 abc	78 b-g	77 b-e	0 g	91 c	68 d	50 e
2	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
2	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
2	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
2	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
3	SONIC	70	WG	0.14	lb ai/a	3.2	oz/a	7-14EPP	A	53 de	93 bc	73 c-g	77 b-e	47 ef	98 ab	96 a	93 ab
3	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
3	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
3	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
3	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
4	SONIC	70	WG	0.28	lb ai/a	6.4	oz/a	7-14EPP	A	93 a	92 bcd	82 b-e	77 b-e	83 abc	98 ab	95 a	91 abc
4	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
4	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
4	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
4	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
5	CANOPY	75	WG	0.14	lb ai/a	3.0	oz/a	7-14EPP	A	92 a	94 bc	75 b-g	67 def	13 g	95 abc	72 cd	78 cd
5	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
5	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
5	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
5	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
6	CANOPY	75	WG	0.28	lb ai/a	6.0	oz/a	7-14EPP	A	90 a	91 cde	72 d-g	80 bc	3 g	94 bc	77 bcd	73 d
6	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
6	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
6	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
6	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
7	PROWL H2O	3.8	CS	0.594	lb ai/a	1.25	pt/a	7-14EPP	A	63 cd	94 abc	67 g	78 bcd	40 f	95 abc	77 bcd	73 d
7	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
7	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
7	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
7	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
8	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	7-14EPP	A	70 bcd	88 de	68 fg	65 ef	60 def	98 ab	96 a	82 bcd
8	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
8	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
8	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
8	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
9	VALOR XLT	40.3	WG			3.0	oz/a	7-14EPP	A	72 bc	93 bcd	72 d-g	75 b-f	65 cde	97 ab	87 abc	80 bcd
9	->VALOR SX	51	WG	0.056	lb ai/a			7-14EPP	A								
9	->CLASSIC	25	WG	0.0194	lb ai/a			7-14EPP	A								
9	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
9	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
9	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
9	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
10	VALOR XLT	40.3	WG			5.0	oz/a	7-14EPP	A	87 ab	94 bc	80 b-f	63 f	88 ab	98 ab	90 ab	78 cd
10	->VALOR SX	51	WG	0.093	lb ai/a			7-14EPP	A								
10	->CLASSIC	25	WG	0.0322	lb ai/a			7-14EPP	A								
10	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
10	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
10	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
10	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
11	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	7-14EPP	A	94 a	96 ab	85 bc	81 bc	73 bcd	99 a	93 a	93 ab
11	SCEPTER	70	WG	0.061	lb ai/a	1.4	oz/a	7-14EPP	A								
11	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
11	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
11	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
11	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
12	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	7-14EPP	A	98 a	94 abc	87 b	85 b	82 abc	99 a	88 ab	80 bcd
12	SCEPTER	70	WG	0.122	lb ai/a	2.8	oz/a	7-14EPP	A								
12	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
12	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
12	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
12	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								

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 Investigator: Bryan Young

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Crop Code	Control	Control	Control	Control	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-11-07	6-25-07	7-9-07	8-6-07	6-11-07	6-25-07	7-9-07	8-6-07
Rating Date	0 DA-B	14 DA-B	28 DA-B	56 DA-B	0 DA-B	14 DA-B	28 DA-B	56 DA-B
Trt-Eval Interval								

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	43 e	87 e	70 efg	33 g	70 bcd	96 ab	84 a-d	77 cd
13	PREFIX	5.28	EW	0.66	lb ai/a	1.0	pt/a	7-14EPP	A								
13	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
13	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
13	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
13	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
14	PREFIX	5.28	EW	1.32	lb ai/a	2.0	pt/a	7-14EPP	A	72 bc	94 bc	83 bcd	72 c-f	81 abc	98 ab	91 ab	88 abc
14	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
14	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
14	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
14	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
15	WEED FREE									99 a	99 a	99 a	99 a	99 a	99 a	99 a	99 a
15	DUAL MAGNUM	7.62	EC	1.27	lb ai/a	1.33	pt/a	7-14EPP	A								
15	FIRSTRATE	84	WG	0.0315	lb ai/a	0.6	oz/a	7-14EPP	A								
15	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W	B								
15	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4"W	B								
15	HANDWEED																
16	DPX-QER54	41.3	WG			3.5	oz/a	7-14EPP	A	87 ab	92 bcd	68 fg	32 g	77 bcd	98 ab	92 ab	83 bcd
16	->CLASSIC	25	WG	0.02	lb ai/a			7-14EPP	A								
16	->HARMONY GT XP	50	SG	0.00643	lb ai/a			7-14EPP	A								
16	->VALOR SX	51	WG	0.0635	lb ai/a			7-14EPP	A								
16	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
16	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
16	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
16	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
LSD (P=.05)										18.1	4.8	11.9	12.3	20.3	4.7	16.1	14.1
Replicate F										2.716	1.055	0.891	1.728	1.061	0.603	0.386	1.211
Replicate Prob(F)										0.0824	0.3606	0.4207	0.1948	0.3586	0.5539	0.6831	0.3120
Treatment F										25.428	195.542	26.176	33.324	23.092	225.533	17.869	22.515
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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

Weed Management for Conventional Soybean in No-Till.

Project Code: 07-11C-E90 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code									AMBEL	AMBEL	AMBEL	AMBEL	CYPES	CYPES	CYPES	CYPES	
Crop Code									Control	Control	Control	Control	Control	Control	Control	Control	
Rating Data Type									Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Rating Unit									6-11-07	6-25-07	7-9-07	8-6-07	6-11-07	6-25-07	7-9-07	8-6-07	
Rating Date									0 DA-B	14 DA-B	28 DA-B	56 DA-B	0 DA-B	14 DA-B	28 DA-B	56 DA-B	
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 c	0 b	0 c	0 c	0 f	0 h	0 e	
2	NO RESIDUAL HERB									0 c	99 a	99 a	99 a	0 f	12 gh	17 de	0 e
2	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
2	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
2	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
2	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
3	SONIC	70	WG	0.14	lb ai/a	3.2	oz/a	7-14EPP	A	96 a	99 a	99 a	99 a	17 ef	30 efg	10 de	0 e
3	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
3	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
3	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
3	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
4	SONIC	70	WG	0.28	lb ai/a	6.4	oz/a	7-14EPP	A	96 a	99 a	99 a	99 a	60 bc	57 cd	40 b-e	63 d
4	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
4	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
4	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
4	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
5	CANOPY	75	WG	0.14	lb ai/a	3.0	oz/a	7-14EPP	A	98 a	99 a	99 a	99 a	82 ab	78 abc	63 abc	73 c
5	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
5	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
5	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
5	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
6	CANOPY	75	WG	0.28	lb ai/a	6.0	oz/a	7-14EPP	A	99 a	99 a	99 a	99 a	98 a	86 ab	63 abc	93 ab
6	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
6	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
6	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
6	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
7	PROWL H2O	3.8	CS	0.594	lb ai/a	1.25	pt/a	7-14EPP	A	66 b	99 a	99 b	99 a	0 f	13 gh	7 de	0 e
7	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
7	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
7	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
7	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
8	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	7-14EPP	A	17 c	99 a	99 a	99 a	7 ef	20 fgh	10 de	0 e
8	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
8	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
8	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
8	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
9	VALOR XLT	40.3	WG			3.0	oz/a	7-14EPP	A	99 a	99 a	99 a	99 a	40 cd	43 de	47 bcd	0 e
9	->VALOR SX	51	WG	0.056	lb ai/a			7-14EPP	A								
9	->CLASSIC	25	WG	0.0194	lb ai/a			7-14EPP	A								
9	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
9	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
9	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
9	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
10	VALOR XLT	40.3	WG			5.0	oz/a	7-14EPP	A	98 a	99 a	99 a	99 a	82 ab	73 bc	47 bcd	0 e
10	->VALOR SX	51	WG	0.093	lb ai/a			7-14EPP	A								
10	->CLASSIC	25	WG	0.0322	lb ai/a			7-14EPP	A								
10	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
10	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
10	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
10	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
11	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	7-14EPP	A	99 a	99 a	99 a	99 a	27 de	22 e-h	20 cde	0 e
11	SCEPTER	70	WG	0.061	lb ai/a	1.4	oz/a	7-14EPP	A								
11	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
11	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
11	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
11	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
12	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	7-14EPP	A	88 a	99 a	99 a	99 a	60 bc	58 cd	27 b-e	0 e
12	SCEPTER	70	WG	0.122	lb ai/a	2.8	oz/a	7-14EPP	A								
12	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
12	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
12	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
12	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								

Weed Management for Conventional Soybean in No-Till.

Project Code: 07-11C-E90 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	AMBEL	AMBEL	AMBEL	AMBEL	CYPES	CYPES	CYPES	CYPES
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	6-11-07	6-25-07	7-9-07	8-6-07	6-11-07	6-25-07	7-9-07	8-6-07
Trt-Eval Interval	0 DA-B	14 DA-B	28 DA-B	56 DA-B	0 DA-B	14 DA-B	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
13	PREFIX	5.28	EW	0.66	lb ai/a	1.0	pt/a	7-14EPP	A	63 b	99 a	99 a	99 a	23 de	37 def	33 b-e	0 e
13	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
13	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
13	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
13	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
14	PREFIX	5.28	EW	1.32	lb ai/a	2.0	pt/a	7-14EPP	A	99 a	99 a	99 a	98 b	43 cd	38 def	33 b-e	0 e
14	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
14	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
14	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
14	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
15	WEED FREE									99 a	99 a	99 a	99 a	99 a	99 a	99 a	99 a
15	DUAL MAGNUM	7.62	EC	1.27	lb ai/a	1.33	pt/a	7-14EPP	A								
15	FIRSTRATE	84	WG	0.0315	lb ai/a	0.6	oz/a	7-14EPP	A								
15	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W	B								
15	N-PAK AMS	100	LIQ	5.0	% v/v	5	% v/v	4"W	B								
15	HANDWEED																
16	DPX-QER54	41.3	WG			3.5	oz/a	7-14EPP	A	96 a	99 a	99 a	99 a	86 a	75 bc	67 ab	87 b
16	->CLASSIC	25	WG	0.02	lb ai/a			7-14EPP	A								
16	->HARMONY GT XP	50	SG	0.00643	lb ai/a			7-14EPP	A								
16	->VALOR SX	51	WG	0.0635	lb ai/a			7-14EPP	A								
16	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	4"W	B								
16	FUSION	2.56	EC	0.24	lb ai/a	12	fl oz/a	4"W	B								
16	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	4"W	B								
16	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	4"W	B								
LSD (P=.05)										20.6	0.3	0.2	1.0	22.8	23.2	46.2	7.0
Replicate F										0.138	0.484	1.000	1.000	1.010	0.704	1.420	3.590
Replicate Prob(F)										0.8720	0.6211	0.3798	0.3798	0.3761	0.5027	0.2575	0.0400
Treatment F										26.475	42644.360	88170.407	5504.163	21.107	13.867	2.827	279.343
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0075	0.0001

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

Trial Comments

1. Protocol: ISA.
2. Ratings: CI/WC prior to POST; CI/WC 14, 28 + 56 DA POST.
3. Yield.
4. Blanket application, same day as 7-14EPP application, Roundup Original Max (22 fl oz/A) + 2,4-D LV4 (1.0 pt/A), 10 ft wide to all plots, was applied 5-7-07.
5. DA-B = Days after 4"W application.
6. Harvested 10-21-07, (2) 30 inch rows by 25 feet.