

Control of Common Waterhemp in Roundup Ready Soybean.

Project Code: 06-52-MME70 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 how a residual herbicide effects weed stands at the postemergence application timing.

Weed Code	Common Name	Scientific Name
1.	SETFA foxtail, giant	Setaria faberi Herrm.
2.	AMATA waterhemp, common	Amaranthus rudis Sauer
3.	XANST cocklebur, common	Xanthium strumarium L.
4.	AMBTR ragweed, giant	Ambrosia trifida L.
5.	GGGAN grasses, annual	
6.	CYPES nutsedge, yellow	Cyperus esculentus L.
7.	IPOSS morningglory, species	Ipomoea sp.
8.	ABUTH velvetleaf	Abutilon theophrasti Medicus
9.	CHEAL lambsquarters, common	Chenopodium album L.

Crop 1: GLXMA soybean Variety: Asgrow 4403 RR
 Planting Method: Seeded Planting Date: 5-26-06
 Rate: 75 lb/A Depth: 1.0 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 25 FT Reps: 4
 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: Weir % OM: 2.2 pH: 6.9 CEC: 9
 Texture: Silt loam Fert. Level: P1: 107 LB/A, K: 420 LB/A

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-26-06	6-14-06	6-20-06	7-12-06	7-5-06	7-12-06
Time of Day:	14:00	14:00	8:30	8:30	9:30	8:30
Application Method:	Spray	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	3"W	4-6"W	3WA-C	3"W-LF	4-6"W-LF
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	88 F	85 F	80 F	78 F	72 F	78 F
% Relative Humidity:	52	48	80	92	92	92
Wind Velocity, Unit:	3-5 MPH	1-2 MPH	1-3 MPH	2-4 MPH	2-4 MPH	2-4 MPH
Soil Moisture:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Code, Stage:	GLXMA NA	GLXMA V1	GLXMA V2	GLXMA R1	GLXMA V7	GLXMA R1
Height, Unit:	NA NA	2-3 IN	4-6 IN	15-18 IN	12-14 IN	15-18 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 Code:	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA
Stage (leaves):	3-4	2-8	2-4	2-6	2-4	2-4
Height (inches):	3-4	0-6	0-3	0-3	0-3	0-3
Density:	Low	Medium	Low	Low	Low	Low
Weed 2 Code:	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA
Stage (leaves):	4-8	2-10	4-8	2-14	4-8	4-8
Height (inches):	1-3	0-6	1-3	0-5	1-3	1-3
Density:	High	High	Low	Low	Low	Low
Weed 3 Code:	XANST	XANST	XANST	XANST	XANST	XANST
Stage (leaves):	4-6	2-8	3-6	2-6	3-6	3-6
Height (inches):	3-4	0-6	2-5	0-4	2-5	2-5
Density:	Low	Medium	Low	Low	Low	Low
Weed 4 Code:	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Stage (leaves):	4-6	2-10	6-8	2-10	6-8	6-8
Height (inches):	3-4	0-7	2-6	1-12	2-6	2-6
Density:	Low	Low	Low	Low	Low	Low
Weed 6 Code:	CYPES	CYPES	CYPES	CYPES	CYPES	CYPES
Stage (leaves):	6-7	2-10	2-8	2-16	2-8	2-8
Height (inches):	2-3	0-6	1-6	2-12	1-6	1-6
Density:	Low	Low	Medium	Medium	Medium	Medium
Weed 8 Code:	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Stage (leaves):	2-4	2-6	2-6	2-8	2-6	2-6
Height (inches):	2-3	0-5	2-4	0-4	2-4	2-4
Density:	Low	Low	Medium	Low	Medium	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:

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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 10-23-06	GLXMA Yield bu/A 10-23-06	SETFA Control Percent @ POST	SETFA Control Percent 6-28-06 14 DA-B	SETFA Control Percent 7-4-06 14 DA-C	SETFA Control Percent 7-31-06 Canopy
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C	12.5	44		99	99	99
1	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-C	D						
1	AMS	100	DRY	2.0	% w/w	2	% w/w	3WA-C	D						
2	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B	12.5	49		99	98	99
2	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B						
2	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B						
3	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	12.4	42	97	99	99	99
3	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
3	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
4	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	12.4	45	98	99	99	99
4	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B						
4	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B						
4	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B						
5	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	12.4	43	99	99	99	99
5	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B						
5	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B						
5	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B						
6	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	12.4	45	97	99	99	99
6	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A						
6	SEE COMMENT #6														
6	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
6	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
7	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	12.5	45	92	99	99	99
7	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
7	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
8	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	12.5	27	97	99	99	99
8	COBRA	2	EC	0.195	lb ai/a	12.5	fl oz/a	3"W	B						
8	SELECT	2	EC	0.094	lb ai/a	6	fl oz/a	3"W	B						
8	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B						
9	GANGSTER (MULTI-PACK)							PRE	A	12.4	45	91	99	99	99
9	->GANGSTER V	51	WG	0.064	lb ai/a	2	oz/a	PRE	A						
9	->GANGSTER FR	84	WG	0.021	lb ai/a	0.4	oz/a	PRE	A						
9	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
9	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
10	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A	12.2	42	96	99	99	99
10	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
10	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
11	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A	12.3	38	97	99	99	95
11	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	3"W	B						
11	ULTRA BLAZER	2	SL	0.156	lb ai/a	10	fl oz/a	3"W	B						
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3"W	B						
12	CANOPY	75	WG	0.187	lb ai/a	4	oz/a	PRE	A	12.5	49	58	99	99	99
12	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
12	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
13	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	PRE	A	12.4	45	98	99	99	99
13	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B						
13	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B						
13	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B						
14	NONTREATED									12.5	7	0	0	0	0
LSD (P=.05)										0.34	8.7	7.4	0.0	0.4	2.0
Replicate F										0.405	2.556	1.426	0.000	2.241	1.000
Replicate Prob(F)										0.7499	0.0692	0.2528	1.0000	0.0987	0.4031
Treatment F										0.682	13.440	129.262	0.000	30002.265	1444.846
Treatment Prob(F)										0.7674	0.0001	0.0001	1.0000	0.0001	0.0001

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Weed Code	AMATA	AMATA	AMATA	AMATA
Crop Code				
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date		6-28-06	7-4-06	7-31-06
Trt-Eval Interval	@ POST	14 DA-B	14 DA-C	Canopy

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C		98	98	99
1	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C				
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-C	D				
1	AMS	100	DRY	2.0	% w/w	2	% w/w	3WA-C	D				
2	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B		99	98	99
2	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B				
2	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B				
3	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	98	99	99	99
3	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C				
3	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C				
4	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	99	99	99	99
4	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B				
4	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B				
4	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B				
5	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	99	99	99	99
5	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B				
5	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B				
5	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B				
6	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	99	99	99	99
6	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A				
6	SEE COMMENT #6												
6	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C				
6	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C				
7	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	99	99	99	99
7	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C				
7	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C				
8	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	99	99	99	99
8	COBRA	2	EC	0.195	lb ai/a	12.5	fl oz/a	3"W	B				
8	SELECT	2	EC	0.094	lb ai/a	6	fl oz/a	3"W	B				
8	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B				
9	GANGSTER (MULTI-PACK)							PRE	A	99	99	99	99
9	->GANGSTER V	51	WG	0.064	lb ai/a	2	oz/a	PRE	A				
9	->GANGSTER FR	84	WG	0.021	lb ai/a	0.4	oz/a	PRE	A				
9	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C				
9	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C				
10	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A	95	99	99	99
10	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C				
10	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C				
11	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A	99	99	99	99
11	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	3"W	B				
11	ULTRA BLAZER	2	SL	0.156	lb ai/a	10	fl oz/a	3"W	B				
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3"W	B				
12	CANOPY	75	WG	0.187	lb ai/a	4	oz/a	PRE	A	95	99	99	99
12	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C				
12	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C				
13	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	PRE	A	99	99	99	99
13	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B				
13	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B				
13	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B				
14	NONTREATED									0	0	0	0
LSD (P=.05)										3.2	0.4	0.5	0.0
Replicate F										1.078	0.848	1.000	0.000
Replicate Prob(F)										0.3719	0.4762	0.4031	1.0000
Treatment F										661.532	33166.046	19514.617	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	1.0000

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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	Control Percent	Control Percent	Control Percent
										@ POST	14 DA-B	14 DA-C	Canopy
										6-28-06	7-4-06	7-31-06	
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C		99	99	99
1	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C				
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-C	D				
1	AMS	100	DRY	2.0	% w/w	2	% w/w	3WA-C	D				
2	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B		99	98	99
2	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B				
2	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B				
3	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	30	99	99	99
3	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C				
3	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C				
4	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	40	99	99	99
4	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B				
4	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B				
4	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B				
5	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	34	98	99	99
5	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B				
5	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B				
5	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B				
6	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	25	99	99	99
6	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A				
6	SEE COMMENT #6												
6	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C				
6	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C				
7	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	17	99	99	99
7	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C				
7	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C				
8	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	14	99	99	99
8	COBRA	2	EC	0.195	lb ai/a	12.5	fl oz/a	3"W	B				
8	SELECT	2	EC	0.094	lb ai/a	6	fl oz/a	3"W	B				
8	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B				
9	GANGSTER (MULTI-PACK)							PRE	A	94	99	99	99
9	->GANGSTER V	51	WG	0.064	lb ai/a	2	oz/a	PRE	A				
9	->GANGSTER FR	84	WG	0.021	lb ai/a	0.4	oz/a	PRE	A				
9	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C				
9	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C				
10	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A	0	99	99	99
10	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C				
10	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C				
11	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A	18	99	98	99
11	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	3"W	B				
11	ULTRA BLAZER	2	SL	0.156	lb ai/a	10	fl oz/a	3"W	B				
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3"W	B				
12	CANOPY	75	WG	0.187	lb ai/a	4	oz/a	PRE	A	75	99	99	99
12	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C				
12	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C				
13	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	PRE	A	35	98	98	99
13	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B				
13	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B				
13	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B				
14	NONTREATED									0	0	0	0
LSD (P=.05)										16.1	0.6	0.8	0.0
Replicate F										2.331	4.988	1.918	0.000
Replicate Prob(F)										0.0958	0.0050	0.1426	1.0000
Treatment F										25.194	17711.305	9041.477	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	1.0000

Control of Common Waterhemp in Roundup Ready Soybean.

Project Code: 06-52-MME70 Location: Belleville Research Center
 Investigator: Bryan Young

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	AMBTR Control Percent @ POST	AMBTR Control Percent 6-28-06 14 DA-B	AMBTR Control Percent 7-4-06 14 DA-C	AMBTR Control Percent 7-31-06 Canopy	GLXMA Injury Percent @ POST	GLXMA Injury Percent 7-31-06 Canopy	GLXMA Chlora Percent 6-28-06 14 DA-B	GLXMA Chlora Percent 7-4-06 14 DA-C
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C		94	97	99		0	0	0
1	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C								
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-C	D								
1	AMS	100	DRY	2.0	% w/w	2	% w/w	3WA-C	D								
2	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B		98	98	99		0	0	0
2	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B								
2	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B								
3	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	0	95	97	99	14	0	0	0
3	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C								
3	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C								
4	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	0	99	98	99	10	0	0	0
4	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B								
4	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B								
4	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B								
5	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	5	99	98	99	10	0	0	0
5	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B								
5	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B								
5	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B								
6	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	13	95	97	99	14	0	0	0
6	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A								
6	SEE COMMENT #6																
6	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C								
6	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C								
7	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	70	98	98	99	14	0	0	0
7	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C								
7	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C								
8	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	74	99	99	99	10	15	0	0
8	COBRA	2	EC	0.195	lb ai/a	12.5	fl oz/a	3"W	B								
8	SELECT	2	EC	0.094	lb ai/a	6	fl oz/a	3"W	B								
8	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B								
9	GANGSTER (MULTI-PACK)							PRE	A	91	98	99	99	15	0	0	0
9	->GANGSTER V	51	WG	0.064	lb ai/a	2	oz/a	PRE	A								
9	->GANGSTER FR	84	WG	0.021	lb ai/a	0.4	oz/a	PRE	A								
9	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C								
9	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C								
10	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A	0	92	96	97	8	0	0	0
10	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C								
10	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C								
11	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A	8	93	93	79	0	0	0	0
11	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	3"W	B								
11	ULTRA BLAZER	2	SL	0.156	lb ai/a	10	fl oz/a	3"W	B								
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3"W	B								
12	CANOPY	75	WG	0.187	lb ai/a	4	oz/a	PRE	A	74	98	98	99	1	0	0	0
12	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C								
12	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C								
13	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	PRE	A	85	98	98	99	1	0	0	0
13	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B								
13	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B								
13	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B								
14	NONTREATED									0	0	0	0	0	0	0	0
LSD (P=.05)										15.8	2.4	1.4	2.8	2.7	1.6	0.0	0.0
Replicate F										2.048	1.437	0.389	0.947	0.541	1.000	0.000	0.000
Replicate Prob(F)										0.1261	0.2468	0.7614	0.4275	0.6579	0.4031	1.0000	1.0000
Treatment F										51.467	982.680	3007.880	732.790	39.078	54.000	0.000	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	1.0000

Control of Common Waterhemp in Roundup Ready Soybean.

Project Code: 06-52-MME70 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code								Grass	Grass	Grass						
Crop Code				GLXMA	GLXMA	GLXMA	GLXMA	Plants 1	Plants 2	Plants 3						
Rating Data Type				Stunt	Stunt	Necrosis	Necrosis	0.5 m2	0.5 m2	0.5 m2						
Rating Unit				Percent	Percent	Percent	Percent	6-19-06	6-19-06	6-19-06						
Rating Date				6-28-06	7-4-06	6-28-06	7-4-06	6-19-06	6-19-06	6-19-06						
Trt-Eval Interval				14 DA-B	14 DA-C	14 DA-B	14 DA-C	-1 DA-C	-1 DA-C	-1 DA-C						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C	0	0	0				
1	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C							
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-C	D							
1	AMS	100	DRY	2.0	% w/w	2	% w/w	3WA-C	D							
2	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B	0	0	3				
2	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B							
2	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B							
3	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	0	0	0				
3	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C							
3	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C							
4	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	2	0	4				
4	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B							
4	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B							
4	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B							
5	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	4	0	5				
5	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B							
5	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B							
5	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B							
6	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	0	0	0				
6	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A							
6	SEE COMMENT #6															
6	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C							
6	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C							
7	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	0	0	0				
7	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C							
7	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C							
8	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	23	17	10				
8	COBRA	2	EC	0.195	lb ai/a	12.5	fl oz/a	3"W	B							
8	SELECT	2	EC	0.094	lb ai/a	6	fl oz/a	3"W	B							
8	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B							
9	GANGSTER (MULTI-PACK)							PRE	A	2	0	0				
9	->GANGSTER V	51	WG	0.064	lb ai/a	2	oz/a	PRE	A							
9	->GANGSTER FR	84	WG	0.021	lb ai/a	0.4	oz/a	PRE	A							
9	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C							
9	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C							
10	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A	2	0	0				
10	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C							
10	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C							
11	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A	4	0	4				
11	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	3"W	B							
11	ULTRA BLAZER	2	SL	0.156	lb ai/a	10	fl oz/a	3"W	B							
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3"W	B							
12	CANOPY	75	WG	0.187	lb ai/a	4	oz/a	PRE	A	0	0	0				
12	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C							
12	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C							
13	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	PRE	A	4	0	4				
13	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B							
13	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B							
13	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B							
14	NONTREATED									0	0	0				
LSD (P=.05)										2.0	0.6	0.8	0.0	20.5	32.2	52.7
Replicate F										0.679	1.000	1.696	0.000	0.377	0.116	0.565
Replicate Prob(F)										0.5700	0.4031	0.1838	1.0000	0.7730	0.9473	0.6579
Treatment F										72.445	529.000	113.981	0.000	17.812	4.275	6.174
Treatment Prob(F)										0.0001	0.0001	0.0001	1.0000	0.0030	0.0701	0.0350

Control of Common Waterhemp in Roundup Ready Soybean.

Project Code: 06-52-MME70 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	CYPES	CYPES	CYPES	AMATA	AMATA	AMATA
Crop Code						
Rating Data Type	Plants 1	Plants 2	Plants 3	Plants 1	Plants 2	Plants 3
Rating Unit	0.5 m2	0.5 m2	0.5 m2	0.5 m2	0.5 m2	0.5 m2
Rating Date	6-19-06	6-19-06	6-19-06	6-19-06	6-19-06	6-19-06
Trt-Eval Interval	-1 DA-C	-1 DA-C	-1 DA-C	-1 DA-C	-1 DA-C	-1 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
1	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C	3	2	1	26	17	40
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-C	D						
1	AMS	100	DRY	2.0	% w/w	2	% w/w	3WA-C	D						
2	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B						
2	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B						
2	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B						
3	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	1	2	3	1	0	0
3	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
3	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
4	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A						
4	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B						
4	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B						
4	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B						
5	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A						
5	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B						
5	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B						
5	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B						
6	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A						
6	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A						
6	SEE COMMENT #6														
6	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
6	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
7	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	7	2	3	0	0	0
7	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
7	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
8	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A						
8	COBRA	2	EC	0.195	lb ai/a	12.5	fl oz/a	3"W	B						
8	SELECT	2	EC	0.094	lb ai/a	6	fl oz/a	3"W	B						
8	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B						
9	GANGSTER (MULTI-PACK)							PRE	A						
9	->GANGSTER V	51	WG	0.064	lb ai/a	2	oz/a	PRE	A						
9	->GANGSTER FR	84	WG	0.021	lb ai/a	0.4	oz/a	PRE	A						
9	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
9	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
10	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A						
10	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
10	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
11	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A						
11	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	3"W	B						
11	ULTRA BLAZER	2	SL	0.156	lb ai/a	10	fl oz/a	3"W	B						
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3"W	B						
12	CANOPY	75	WG	0.187	lb ai/a	4	oz/a	PRE	A						
12	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
12	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
13	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	PRE	A						
13	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B						
13	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B						
13	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B						

14 NONTREATED

LSD (P=.05)	5.4	3.9	6.0	8.7	12.7	25.5
Replicate F	1.051	0.103	0.548	0.980	1.000	1.000
Replicate Prob(F)	0.4361	0.9552	0.6679	0.4621	0.4547	0.4547
Treatment F	4.343	0.000	0.341	34.047	7.165	9.700
Treatment Prob(F)	0.0682	1.0000	0.7239	0.0005	0.0257	0.0132

Control of Common Waterhemp in Roundup Ready Soybean.

Project Code: 06-52-MME70 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code		AMBTR AMBTR AMBTR XANST XANST XANST													
Crop Code		Plants 1 Plants 2 Plants 3 Plants 1 Plants 2 Plants 3													
Rating Data Type		0.5 m2 0.5 m2 0.5 m2 0.5 m2 0.5 m2 0.5 m2													
Rating Unit		6-19-06 6-19-06 6-19-06 6-19-06 6-19-06 6-19-06													
Rating Date		-1 DA-C -1 DA-C -1 DA-C -1 DA-C -1 DA-C -1 DA-C													
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C	2	1	2	0	0	0
1	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-C	D						
1	AMS	100	DRY	2.0	% w/w	2	% w/w	3WA-C	D						
2	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B						
2	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B						
2	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B						
3	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	2	2	5	1	0	0
3	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
3	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
4	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A						
4	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B						
4	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B						
4	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B						
5	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A						
5	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B						
5	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B						
5	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B						
6	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A						
6	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A						
6	SEE COMMENT #6														
6	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
6	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
7	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	4	1	2	0	1	1
7	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
7	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
8	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A						
8	COBRA	2	EC	0.195	lb ai/a	12.5	fl oz/a	3"W	B						
8	SELECT	2	EC	0.094	lb ai/a	6	fl oz/a	3"W	B						
8	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B						
9	GANGSTER (MULTI-PACK)							PRE	A						
9	->GANGSTER V	51	WG	0.064	lb ai/a	2	oz/a	PRE	A						
9	->GANGSTER FR	84	WG	0.021	lb ai/a	0.4	oz/a	PRE	A						
9	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
9	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
10	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A						
10	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
10	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
11	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A						
11	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	3"W	B						
11	ULTRA BLAZER	2	SL	0.156	lb ai/a	10	fl oz/a	3"W	B						
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3"W	B						
12	CANOPY	75	WG	0.187	lb ai/a	4	oz/a	PRE	A						
12	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
12	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
13	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	PRE	A						
13	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B						
13	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B						
13	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B						
14	NONTREATED														
LSD (P=.05)										4.0	2.8	5.2	1.2	0.6	0.9
Replicate F										4.138	2.839	0.359	0.647	2.200	3.000
Replicate Prob(F)										0.0657	0.1281	0.7850	0.6128	0.1889	0.1170
Treatment F										1.286	1.000	1.235	0.529	1.800	1.000
Treatment Prob(F)										0.3430	0.4219	0.3554	0.6141	0.2441	0.4219

Control of Common Waterhemp in Roundup Ready Soybean.

Project Code: 06-52-MME70 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code		IPOSS						ABUTH							
Crop Code		IPOSS		IPOSS		IPOSS		ABUTH	ABUTH	ABUTH					
Rating Data Type		Plants 1	Plants 2	Plants 3	Plants 1	Plants 2	Plants 3	Plants 1	Plants 2	Plants 3					
Rating Unit		0.5 m2	0.5 m2	0.5 m2	0.5 m2	0.5 m2	0.5 m2	0.5 m2	0.5 m2	0.5 m2					
Rating Date		6-19-06	6-19-06	6-19-06	6-19-06	6-19-06	6-19-06	6-19-06	6-19-06	6-19-06					
Trt-Eval Interval		-1 DA-C	-1 DA-C	-1 DA-C	-1 DA-C	-1 DA-C	-1 DA-C	-1 DA-C	-1 DA-C	-1 DA-C					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
1	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C	1	1	2	4	3	2
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-C	D						
1	AMS	100	DRY	2.0	% w/w	2	% w/w	3WA-C	D						
2	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B						
2	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B						
2	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B						
3	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	0	1	2	1	0	1
3	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
3	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
4	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A						
4	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B						
4	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B						
4	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B						
5	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A						
5	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B						
5	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B						
5	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B						
6	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A						
6	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A						
6	SEE COMMENT #6														
6	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
6	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
7	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	1	1	0	0	0	0
7	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
7	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
8	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A						
8	COBRA	2	EC	0.195	lb ai/a	12.5	fl oz/a	3"W	B						
8	SELECT	2	EC	0.094	lb ai/a	6	fl oz/a	3"W	B						
8	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B						
9	GANGSTER (MULTI-PACK)							PRE	A						
9	->GANGSTER V	51	WG	0.064	lb ai/a	2	oz/a	PRE	A						
9	->GANGSTER FR	84	WG	0.021	lb ai/a	0.4	oz/a	PRE	A						
9	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
9	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
10	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A						
10	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
10	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
11	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A						
11	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	3"W	B						
11	ULTRA BLAZER	2	SL	0.156	lb ai/a	10	fl oz/a	3"W	B						
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3"W	B						
12	CANOPY	75	WG	0.187	lb ai/a	4	oz/a	PRE	A						
12	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C						
12	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C						
13	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	PRE	A						
13	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B						
13	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B						
13	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B						
14	NONTREATED														
LSD (P=.05)										1.4	2.1	5.3	5.8	3.8	1.4
Replicate F										0.478	1.000	0.434	0.978	0.896	2.957
Replicate Prob(F)										0.7091	0.4547	0.7368	0.4632	0.4958	0.1198
Treatment F										0.130	0.529	0.646	1.848	1.578	4.826
Treatment Prob(F)										0.8801	0.6141	0.5571	0.2370	0.2814	0.0563

Control of Common Waterhemp in Roundup Ready Soybean.

Project Code: 06-52-MME70 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	CHEAL	CHEAL	CHEAL
Crop Code			
Rating Data Type	Plants 1	Plants 2	Plants 3
Rating Unit	0.5 m2	0.5 m2	0.5 m2
Rating Date	6-19-06	6-19-06	6-19-06
Trt-Eval Interval	-1 DA-C	-1 DA-C	-1 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code			
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C	0	2	1
1	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C			
1	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA-C	D			
1	AMS	100	DRY	2.0	% w/w	2	% w/w	3WA-C	D			
2	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B			
2	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B			
2	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B			
3	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A	0	0	0
3	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C			
3	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C			
4	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A			
4	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3"W	B			
4	FLEXSTAR	1.88	EC	0.176	lb ai/a	12	fl oz/a	3"W	B			
4	AMS	100	DRY	2.0	% w/w	2	% w/w	3"W	B			
5	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A			
5	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B			
5	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B			
5	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B			
6	INTRRO	4	L	2	lb ai/a	2	qt/a	PRE	A			
6	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A			
6	SEE COMMENT #6											
6	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C			
6	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C			
7	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A	0	0	0
7	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C			
7	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C			
8	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	PRE	A			
8	COBRA	2	EC	0.195	lb ai/a	12.5	fl oz/a	3"W	B			
8	SELECT	2	EC	0.094	lb ai/a	6	fl oz/a	3"W	B			
8	PRIME OIL COC	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B			
9	GANGSTER (MULTI-PACK)							PRE	A			
9	->GANGSTER V	51	WG	0.064	lb ai/a	2	oz/a	PRE	A			
9	->GANGSTER FR	84	WG	0.021	lb ai/a	0.4	oz/a	PRE	A			
9	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C			
9	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C			
10	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A			
10	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C			
10	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C			
11	PROWL H2O	3.8	CS	0.95	lb ai/a	2	pt/a	PRE	A			
11	RAPTOR	1	AS	0.0312	lb ai/a	4	fl oz/a	3"W	B			
11	ULTRA BLAZER	2	SL	0.156	lb ai/a	10	fl oz/a	3"W	B			
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3"W	B			
12	CANOPY	75	WG	0.187	lb ai/a	4	oz/a	PRE	A			
12	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	4-6"W	C			
12	AMS	100	DRY	2.0	% w/w	2	% w/w	4-6"W	C			
13	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	PRE	A			
13	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	3"W	B			
13	FUSION	2.56	EC	0.2	lb ai/a	10	fl oz/a	3"W	B			
13	ACTIVATOR 90	100	LIQ	0.5	% v/v	0.5	% v/v	3"W	B			

14 NONTREATED

LSD (P=.05)

0.8 2.7 0.6

Replicate F

0.571 1.600 1.000

Replicate Prob(F)

0.6542 0.2853 0.4547

Treatment F

0.429 1.518 3.000

Treatment Prob(F)

0.6699 0.2928 0.1250

Control of Common Waterhemp in Roundup Ready Soybean.

Project Code: 06-52-MME70 Location: Belleville Research Center
Investigator: Bryan Young

Trial Comments

1. Protocol: Monsanto.
2. Ratings: CI/WC/counts at POST; Chlorosis/GR/necrosis/WC 14 DA POST; CI/WC at canopy closure.
3. Yield.
4. A sampling device will be sent to you (if you don't have one from last year) that should be approximately one half square meter. Weed counts should be made at the POST application timing in three plots, Roundup alone (treatment # 1), Intro (Treatment # 3), and Valor (Treatment # 7). You will take three counts per plot between the two center rows. The idea is to take a count in the front 3rd, middle 3rd and back 3rd of the plot. Please take care to stay away from the ends and sides of each plot. From the front of the plot take two steps in and lay down the quadrat between the soybean rows. Make your count then take two more steps from where the edge of the quadrat was and lay down the quadrat and count again. Repeat once more. Count all the grasses present within the sampling device and call it "grasses". The broadleaves within the sampling device should be counted by individual species. If there is a very dense, uniform stand of weeds that makes counting the one half square meter very time consuming, you may count one quarter of the quadrat and multiply by 4. There will be weed counts taken in 3 treatments X 4 reps X 3 samples per plot for a total of 36 samples. Please use Excel to record your weed counts and send them to me over email.
5. Late flushes of weeds: For flushes of weeds after the planned POST applications, if required, make another POST application of the same POST treatment at either 3 inch or 4 to 6 inch weeds (whatever the first POST timing was). For example: Treatment 2, apply Roundup plus Flexstar at 3 inch weeds. If another POST application is required, apply Roundup plus Flexstar again at 3 inch weeds.
Late flush applications for 3"W and 4-6"W timings were required and coded as 3"W-LF and 4-6"W-LF, respectively.
6. Treatment #6; VALOR SX, intended to be tank-mixed PRE, was not included.
7. Chloro = Chlorosis. @ POST = At either 3"W or 4-6"W postemergence timing. DA-B = Days after 3"W application. DA-C = Days after 4-6"W application. 0.5m² = One-half of a square meter.
IPOSS was IPOHE (ivy leaf morning glory) and IPOLA (pitted morning glory). Canopy = At soybean canopy.
Ratings at 3"W and 4-6"W applications were on 6-14-06 and 6-20-06, respectively, and were 19 and 25 days after the PRE application, respectively.
Weed counts at -1 DA-C were at the 4-6"W application.
8. Harvested 10-24-06, (2) 30 inch rows by 22 ft.