

Sequential Herbicide Programs in Soybean.

Trial ID: 10-52-MW100

Location: Belleville Res Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Belleville IL 62221 USA
 Trial Status: FINAL Initiation Date: 06-07-10

Objectives: Evaluate the extent of residual control provided by various preemergence herbicides followed by glyphosate and glyphosate tank-mixtures.

Crop 1: GLXMA Soybean Variety: AG 4404 Description: RR/STS
 Planting Method: SEEDED Planting Date: 06-07-10
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: GGGAN grasses, annual
 Pest 2 Type: W Code: IPOHE Ipomoea hederacea (L.) Jacq. morningglory, ivyleaf
 Pest 3 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest 4 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf
 Pest 5 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 25 FT Tillage Type: REDUCED-TILL
 Replications: 4 Study Design: Randomized Complete Block

Prior Crops, Year
 1. ZEAMD 2009

Field Prep./Maintenance: N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A

% OM: 1.5 Texture: SILT LOAM
 pH: 7 Soil Name: PIERRON
 CEC: 7 Fert. Level: P1: 63 LB/A, K: 274 LB/A

	Application Description			
	A	B	C	D
Application Date:	06-07-10	06-24-10	06-30-10	07-21-10
Time of Day:	15:00	11:00	8:00	10:30
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PRE	4"W	8"W	21DA-C
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	NVH	JW	JRK	JRK
Air Temperature, Unit:	80 F	80 F	70 F	83 F
% Relative Humidity:	90	74	92	74
Wind Velocity, Unit:	1 MPH	2 MPH	1 MPH	1 MPH
Wind Direction:	S	S	W	SW
Dew Presence (Y/N):	N	N	Y	N
Soil Moisture:	NORMAL	NORMAL	ABONOR	ABONOR
% Cloud Cover:	80	10	0	
Crop stage at application:	NA	V2	V3-V4	R2
Height Min, Max (inch):		4 5	5 7	28 32

	Pest Stage At Each Application			
	A	B	C	D
Application Date:	06-07-10	06-24-10	06-30-10	07-21-10
Weed Code:	GGGAN	GGGAN	GGGAN	GGGAN
Stage Majority (leaves):	NA	5	7	3
Stage Min, Max:		3 5	2 8	1 4
Height Majority:		5 IN	6 IN	3 IN
Height Min, Max:		1 6	2 8	0.5 5
Density, Unit:		10 FT2	1 FT2	0.01 FT2
Weed Code:	IPOHE	IPOHE	IPOHE	IPOHE
Stage Majority (leaves):	NA	8	8	3
Stage Min, Max:		2 10	COTY 14	COTY 5
Height Majority:		6 IN	5 IN	4 IN
Height Min, Max:		2 6	1 9	1 6
Density, Unit:		1 FT2	0.01 FT2	0.01 FT2
Weed Code:	AMATA	AMATA	AMATA	AMATA
Stage Majority (leaves):	NA	6	10	6
Stage Min, Max:		2 10	COTY 20	4 8
Height Majority:		4 IN	8 IN	4 IN
Height Min, Max:		0.5 6	1 12	2 5
Density, Unit:		1 FT2	0.1 FT2	0.01 FT2
Weed Code:	ABUTH	ABUTH	ABUTH	ABUTH
Stage Majority (leaves):	NA	6	6	4
Stage Min, Max:		4 8	2 10	2 6
Height Majority:		2 IN	8 IN	4 IN
Height Min, Max:		2 4	1 10	3 5
Density, Unit:		1 FT2	0.1 FT2	0.01 FT2
Weed Code:	AMBTR	AMBTR	AMBTR	AMBTR
Stage Majority (leaves):	NA	10	6	NA
Stage Min, Max:		6 12	4 8	
Height Majority:		5 IN	8 IN	
Height Min, Max:		2 6	5 11	
Density, Unit:		0.01 FT2	0.1 FT2	

Sequential Herbicide Programs in Soybean.

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Application Equipment

Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 8002	XR 8002	XR 8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA

Sequential Herbicide Programs in Soybean.

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Location: Belleville Res Center

Pest Code
Crop Code
Rating Date
Rating Data Type
Rating Unit
Rating Timing
Trt-Eval Interval

GLXMA GLXMA GLXMA
10-21-10 10-21-10 10-21-10
Moisture Test wt. Yield
Percent lb/bu bu/A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	NONTREATED										2 f	
2	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	PRE	A	11.6 ab	55.7 ab	45 abc
2	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C			
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C			
3	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	11.4 b	55.9 a	44 a-d
3	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C			
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C			
4	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	4"W	B	11.4 b	55.9 a	40 b-e
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B			
4	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	21DA-C	D			
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D			
5	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C	11.6 ab	55.8 ab	45 abc
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C			
6	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	4"W	B	11.3 b	56.0 a	44 a-d
6	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	4"W	B			
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B			
6	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	21DA-C	D			
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D			
7	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	11.3 b	56.0 a	43 a-d
7	FLEXSTAR GT	3.31	SL	1.24	lb ai/a	3	pt/a	8"W	C			
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C			
8	FLEXSTAR GT	3.31	SL	0.93	lb ai/a	2.25	pt/a	4"W	B	11.4 b	56.0 a	37 de
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B			
8	FLEXSTAR GT	3.31	SL	0.93	lb ai/a	2.25	pt/a	21DA-C	D			
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D			
9	VALOR XLT	40.3	WG			3	oz/a	PRE	A	11.3 b	56.1 a	48 a
9	VALOR SX	51	WG					PRE	A			
9	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A			
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C			
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C			
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W	B	11.3 b	56.0 a	39 cde
10	MON 63410	3	CS	1.13	lb ai/a	3	pt/a	4"W	B			
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B			
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	21DA-C	D			
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D			
11	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	11.3 b	56.0 a	42 a-e
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C			
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C			
12	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	11.4 b	55.9 a	40 b-e
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C			
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C			
13	SONIC	70	WG	0.131	lb ai/a	3	oz/a	PRE	A	11.4 b	55.9 a	43 a-d
13	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	8"W	C			
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C			
14	SONIC	70	WG	0.197	lb ai/a	4.5	oz/a	PRE	A	11.4 b	55.9 a	40 b-e
14	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	8"W	C			
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C			
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	4"W	B	11.4 b	55.9 a	41 a-e
15	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	4"W	B			
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B			
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	21DA-C	D			
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D			

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Rating Date
Rating Data Type
Rating Unit
Rating Timing
Trt-Eval Interval

GLXMA	GLXMA	GLXMA
10-21-10	10-21-10	10-21-10
Moisture	Test wt.	Yield
Percent	lb/bu	bu/A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
16	ENVIVE	41.3	WG			3.5	oz/a	PRE	A	11.5 b	55.8 a	47 ab
16	CLASSIC	25	WG	0.02	lb ai/a			PRE	A			
16	HARMONY SG	50	SG	0.00643	lb ai/a			PRE	A			
16	VALOR SX	51	WG	0.0635	lb ai/a			PRE	A			
16	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	8"W	C			
16	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C			
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C			
17	ENVIVE	41.3	WG			3.5	oz/a	PRE	A	11.9 a	55.4 b	35 e
17	CLASSIC	25	WG	0.02	lb ai/a			PRE	A			
17	HARMONY SG	50	SG	0.00643	lb ai/a			PRE	A			
17	VALOR SX	51	WG	0.0635	lb ai/a			PRE	A			
17	ASSURE II	0.88	EC	0.0413	lb ai/a	6	fl oz/a	8"W	C			
17	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C			
17	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	8"W	C			
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C			
18	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	8"W	C	11.6 ab	55.7 ab	43 a-d
18	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C			
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C			
19	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	11.3 b	56.1 a	38 de
19	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C			
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C			
LSD (P=.05)										0.38	0.40	7.1
Replicate F										0.255	0.000	6.108
Replicate Prob(F)										0.8573	1.0000	0.0012
Treatment F										1.227	1.195	15.303
Treatment Prob(F)										0.2789	0.3020	0.0001

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

Sequential Herbicide Programs in Soybean.

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Pest Code										GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code										06-26-10	06-30-10	07-21-10	08-11-10	09-30-10
Rating Date										Injury	Injury	Injury	Injury	Injury
Rating Data Type										Percent	Percent	Percent	Percent	Percent
Rating Unit												0 DA-D	21 DA-D	
Rating Timing														
Trt-Eval Interval										14 DAE	0 DA-C	21 DA-C	42 DA-C	EOS
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED									0 b	0 b	0 d	0 c	0 a
2	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	PRE	A	4 b	4 b	0 d	0 c	0 a
2	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C					
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C					
3	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	3 b	3 b	0 d	0 c	0 a
3	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C					
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C					
4	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	4"W	B			3 b	3 b	0 a
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B					
4	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	21DA-C	D					
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D					
5	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C			0 d	0 c	0 a
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C					
6	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	4"W	B			2 c	3 a	0 a
6	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	4"W	B					
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B					
6	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	21DA-C	D					
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D					
7	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	3 b	3 b	0 d	0 c	0 a
7	FLEXSTAR GT	3.31	SL	1.24	lb ai/a	3	pt/a	8"W	C					
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C					
8	FLEXSTAR GT	3.31	SL	0.93	lb ai/a	2.25	pt/a	4"W	B			3 a	3 a	0 a
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B					
8	FLEXSTAR GT	3.31	SL	0.93	lb ai/a	2.25	pt/a	21DA-C	D					
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D					
9	VALOR XLT	40.3	WG			3	oz/a	PRE	A	0 b	0 b	0 d	0 c	0 a
9	VALOR SX	51	WG	0.056	lb ai/a			PRE	A					
9	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A					
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C					
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C					
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W	B			3 b	3 a	0 a
10	MON 63410	3	CS	1.13	lb ai/a	3	pt/a	4"W	B					
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B					
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	21DA-C	D					
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D					
11	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	0 b	0 b	0 d	0 c	0 a
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C					
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C					
12	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	14 a	14 a	0 d	0 c	0 a
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C					
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C					
13	SONIC	70	WG	0.131	lb ai/a	3	oz/a	PRE	A	0 b	0 b	0 d	0 c	0 a
13	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	8"W	C					
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C					
14	SONIC	70	WG	0.197	lb ai/a	4.5	oz/a	PRE	A	0 b	0 b	0 d	0 c	0 a
14	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	8"W	C					
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C					
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	4"W	B			3 a	3 b	0 a
15	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	4"W	B					
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B					
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	21DA-C	D					
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D					

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Rating Timing
Trt-Eval Interval

GLXMA 06-26-10 Injury Percent 14 DAE	GLXMA 06-30-10 Injury Percent 0 DA-C	GLXMA 07-21-10 Injury Percent 21 DA-C	GLXMA 08-11-10 Injury Percent 42 DA-C	GLXMA 09-30-10 Injury Percent EOS
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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
16	ENVIVE	41.3	WG			3.5	oz/a	PRE	A	2 b	2 b	0 d	0 c	0 a
16	CLASSIC	25	WG	0.02	lb ai/a			PRE	A					
16	HARMONY SG	50	SG	0.00643	lb ai/a			PRE	A					
16	VALOR SX	51	WG	0.0635	lb ai/a			PRE	A					
16	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	8"W	C					
16	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C					
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C					
17	ENVIVE	41.3	WG			3.5	oz/a	PRE	A	2 b	2 b	0 d	0 c	0 a
17	CLASSIC	25	WG	0.02	lb ai/a			PRE	A					
17	HARMONY SG	50	SG	0.00643	lb ai/a			PRE	A					
17	VALOR SX	51	WG	0.0635	lb ai/a			PRE	A					
17	ASSURE II	0.88	EC	0.0413	lb ai/a	6	fl oz/a	8"W	C					
17	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C					
17	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	8"W	C					
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C					
18	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	8"W	C			0 d	0 c	0 a
18	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C					
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C					
19	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	4 b	4 b	0 d	0 c	0 a
19	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C					
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C					
LSD (P=.05)										4.2	4.2	0.2	0.2	0.0
Replicate F										0.467	0.467	2.118	0.655	0.000
Replicate Prob(F)										0.7074	0.7074	0.1087	0.5836	1.0000
Treatment F										7.249	7.249	246.176	257.509	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	1.0000

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

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Location: Belleville Res Center

								GGGAN	GGGAN	GGGAN	GGGAN
Pest Code											
Crop Code											
Rating Date								06-30-10	07-21-10	08-11-10	09-30-10
Rating Data Type								Control	Control	Control	Control
Rating Unit								Percent	Percent	Percent	Percent
Rating Timing								0 DA-D	0 DA-D	21 DA-D	21 DA-D
Trt-Eval Interval								0 DA-C	21 DA-C	42 DA-C	EOS
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	NONTREATED									0 d	0 f
2	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	PRE	A	98 a	98 abc
2	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C	98 abc	97 b
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
3	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	99 a	99 a
3	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C	99 a	97 b
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
4	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	4"W	B	97 cde	97 de
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B	98 ab	
4	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	21DA-C	D		
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D		
5	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C	98 a-d	98 bcd
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C	98 ab	
6	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	4"W	B	98 a-d	98 bcd
6	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	4"W	B	99 ab	
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B		
6	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	21DA-C	D		
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D		
7	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	98 a	99 a
7	FLEXSTAR GT	3.31	SL	1.24	lb ai/a	3	pt/a	8"W	C	99 a	99 a
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
8	FLEXSTAR GT	3.31	SL	0.93	lb ai/a	2.25	pt/a	4"W	B	98 abc	98 abc
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B	98 ab	
8	FLEXSTAR GT	3.31	SL	0.93	lb ai/a	2.25	pt/a	21DA-C	D		
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D		
9	VALOR XLT	40.3	WG			3	oz/a	PRE	A	93 ab	99 ab
9	VALOR SX	51	WG	0.056	lb ai/a			PRE	A	99 abc	99 a
9	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A		
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C		
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W	B	97 de	97 de
10	MON 63410	3	CS	1.13	lb ai/a	3	pt/a	4"W	B	99 a	
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B		
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	21DA-C	D		
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D		
11	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	69 c	99 a
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C	99 ab	99 ab
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
12	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	98 a	99 ab
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C	99 ab	99 a
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
13	SONIC	70	WG	0.131	lb ai/a	3	oz/a	PRE	A	83 b	99 ab
13	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	8"W	C	99 ab	99 ab
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
14	SONIC	70	WG	0.197	lb ai/a	4.5	oz/a	PRE	A	95 a	99 a
14	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	8"W	C	99 a	99 ab
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	4"W	B	98 b-e	98 cde
15	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	4"W	B	99 a	
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B		
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	21DA-C	D		
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D		

Sequential Herbicide Programs in Soybean.

Trial ID: 10-52-MW100

Location: Belleville Res Center

Pest Code	GGGAN	GGGAN	GGGAN	GGGAN
Crop Code				
Rating Date	06-30-10	07-21-10	08-11-10	09-30-10
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing	0 DA-D	0 DA-D	21 DA-D	
Trt-Eval Interval	0 DA-C	21 DA-C	42 DA-C	EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
16	ENVIVE	41.3	WG			3.5	oz/a	PRE	A	89 ab	99 a	99 a	99 ab
16	CLASSIC	25	WG	0.02	lb ai/a			PRE	A				
16	HARMONY SG	50	SG	0.00643	lb ai/a			PRE	A				
16	VALOR SX	51	WG	0.0635	lb ai/a			PRE	A				
16	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	8"W	C				
16	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C				
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
17	ENVIVE	41.3	WG			3.5	oz/a	PRE	A	91 ab	97 e	97 e	99 a
17	CLASSIC	25	WG	0.02	lb ai/a			PRE	A				
17	HARMONY SG	50	SG	0.00643	lb ai/a			PRE	A				
17	VALOR SX	51	WG	0.0635	lb ai/a			PRE	A				
17	ASSURE II	0.88	EC	0.0413	lb ai/a	6	fl oz/a	8"W	C				
17	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C				
17	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	8"W	C				
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
18	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	8"W	C		99 a	99 a	99 a
18	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C				
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
19	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	98 a	99 a	99 abc	99 a
19	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C				
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
LSD (P=.05)										12.5	1.0	0.9	2.2
Replicate F										0.480	2.451	1.392	4.742
Replicate Prob(F)										0.6981	0.0733	0.2552	0.0052
Treatment F										41.606	3842.299	5387.398	856.835
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

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

Sequential Herbicide Programs in Soybean.

Trial ID: 10-52-MW100

Location: Belleville Res Center

Pest Code				
Crop Code				
Rating Date	06-30-10	07-21-10	08-11-10	09-30-10
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing	0 DA-D	21 DA-D	21 DA-D	
Trt-Eval Interval	0 DA-C	21 DA-C	42 DA-C	EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
16	ENVIVE	41.3	WG			3.5	oz/a	PRE	A	95 a	97 ab	98 ab	98 a
16	CLASSIC	25	WG	0.02	lb ai/a			PRE	A				
16	HARMONY SG	50	SG	0.00643	lb ai/a			PRE	A				
16	VALOR SX	51	WG	0.0635	lb ai/a			PRE	A				
16	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	8"W	C				
16	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C				
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
17	ENVIVE	41.3	WG			3.5	oz/a	PRE	A	96 a	96 a-d	97 a-e	98 a
17	CLASSIC	25	WG	0.02	lb ai/a			PRE	A				
17	HARMONY SG	50	SG	0.00643	lb ai/a			PRE	A				
17	VALOR SX	51	WG	0.0635	lb ai/a			PRE	A				
17	ASSURE II	0.88	EC	0.0413	lb ai/a	6	fl oz/a	8"W	C				
17	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C				
17	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	8"W	C				
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
18	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	8"W	C		93 e	94 de	98 a
18	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C				
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
19	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	94 a	97 ab	98 ab	98 a
19	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C				
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
LSD (P=.05)										20.6	3.3	2.8	2.8
Replicate F										1.801	0.146	0.893	0.947
Replicate Prob(F)										0.1663	0.9316	0.4510	0.4243
Treatment F										18.153	345.390	485.309	498.074
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

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

Sequential Herbicide Programs in Soybean.

Trial ID: 10-52-MW100

Location: Belleville Res Center

								AMATA	AMATA	AMATA	AMATA
Pest Code								06-30-10	07-21-10	08-11-10	09-30-10
Crop Code								Control	Control	Control	Control
Rating Date								Percent	Percent	Percent	Percent
Rating Data Type								0 DA-D	0 DA-D	21 DA-D	21 DA-D
Rating Unit								0 DA-C	21 DA-C	42 DA-C	EOS
Rating Timing											
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	NONTREATED									0 c	0 e
2	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	PRE	A	99 a	99 ab
2	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C	99 a	99 a
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
3	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	99 a	99 a
3	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C		
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
4	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	4"W	B	97 d	98 bc
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B		99 a
4	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	21DA-C	D		
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D		
5	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C	97 cd	97 c
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		99 a
6	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	4"W	B	99 ab	99 ab
6	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	4"W	B		99 a
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B		
6	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	21DA-C	D		
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D		
7	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	99 a	99 a
7	FLEXSTAR GT	3.31	SL	1.24	lb ai/a	3	pt/a	8"W	C		
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
8	FLEXSTAR GT	3.31	SL	0.93	lb ai/a	2.25	pt/a	4"W	B	98 bcd	98 abc
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B		99 a
8	FLEXSTAR GT	3.31	SL	0.93	lb ai/a	2.25	pt/a	21DA-C	D		
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D		
9	VALOR XLT	40.3	WG			3	oz/a	PRE	A	99 a	99 a
9	VALOR SX	51	WG	0.056	lb ai/a			PRE	A		
9	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A		
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C		
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W	B	99 ab	99 ab
10	MON 63410	3	CS	1.13	lb ai/a	3	pt/a	4"W	B		99 a
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B		
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	21DA-C	D		
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D		
11	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	99 ab	99 a
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C		
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
12	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	98 b	98 abc
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C	99 a	99 a
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
13	SONIC	70	WG	0.131	lb ai/a	3	oz/a	PRE	A	99 a	99 a
13	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	8"W	C		
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
14	SONIC	70	WG	0.197	lb ai/a	4.5	oz/a	PRE	A	99 a	99 a
14	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	8"W	C		
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	4"W	B	99 ab	99 ab
15	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	4"W	B		99 a
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B		
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	21DA-C	D		
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D		

Sequential Herbicide Programs in Soybean.

Trial ID: 10-52-MW100

Location: Belleville Res Center

Pest Code	AMATA	AMATA	AMATA	AMATA
Crop Code				
Rating Date	06-30-10	07-21-10	08-11-10	09-30-10
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing	0 DA-D	21 DA-D	21 DA-D	
Trt-Eval Interval	0 DA-C	21 DA-C	42 DA-C	EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
16	ENVIVE	41.3	WG			3.5	oz/a	PRE	A	99 a	99 a	99 a	99 a
16	CLASSIC	25	WG	0.02	lb ai/a			PRE	A				
16	HARMONY SG	50	SG	0.00643	lb ai/a			PRE	A				
16	VALOR SX	51	WG	0.0635	lb ai/a			PRE	A				
16	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	8"W	C				
16	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C				
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
17	ENVIVE	41.3	WG			3.5	oz/a	PRE	A	99 a	98 a-d	98 abc	99 a
17	CLASSIC	25	WG	0.02	lb ai/a			PRE	A				
17	HARMONY SG	50	SG	0.00643	lb ai/a			PRE	A				
17	VALOR SX	51	WG	0.0635	lb ai/a			PRE	A				
17	ASSURE II	0.88	EC	0.0413	lb ai/a	6	fl oz/a	8"W	C				
17	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C				
17	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	8"W	C				
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
18	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	8"W	C		99 ab	99 ab	99 a
18	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C				
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
19	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	99 a	99 a	99 a	99 a
19	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C				
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
LSD (P=.05)										0.7	1.4	1.0	0.0
Replicate F										0.936	0.717	0.663	0.000
Replicate Prob(F)										0.4342	0.5462	0.5785	1.0000
Treatment F										13714.151	2154.046	3728.276	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	1.0000

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

Sequential Herbicide Programs in Soybean.

Trial ID: 10-52-MW100

Location: Belleville Res Center

Pest Code	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code				
Rating Date	06-30-10	07-21-10	08-11-10	09-30-10
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing	0 DA-D	0 DA-D	21 DA-D	
Trt-Eval Interval	0 DA-C	21 DA-C	42 DA-C	EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0 d	0 e	0 d	0 b
2	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	PRE	A	33 c	90 cd	93 c	99 a
2	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C				
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
3	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	73 b	97 ab	98 ab	99 a
3	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C				
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
4	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	4"W	B		99 ab	99 ab	99 a
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B				
4	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	21DA-C	D				
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D				
5	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C		88 d	92 c	99 a
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
6	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	4"W	B		96 b	97 b	99 a
6	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	4"W	B				
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B				
6	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	21DA-C	D				
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D				
7	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	65 b	98 ab	98 ab	99 a
7	FLEXSTAR GT	3.31	SL	1.24	lb ai/a	3	pt/a	8"W	C				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
8	FLEXSTAR GT	3.31	SL	0.93	lb ai/a	2.25	pt/a	4"W	B		99 ab	99 a	99 a
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B				
8	FLEXSTAR GT	3.31	SL	0.93	lb ai/a	2.25	pt/a	21DA-C	D				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D				
9	VALOR XLT	40.3	WG			3	oz/a	PRE	A	98 a	99 ab	99 a	99 a
9	VALOR SX	51	WG	0.056	lb ai/a			PRE	A				
9	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A				
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W	B		99 ab	99 ab	99 a
10	MON 63410	3	CS	1.13	lb ai/a	3	pt/a	4"W	B				
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B				
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	21DA-C	D				
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D				
11	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	93 a	99 ab	99 ab	99 a
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C				
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
12	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	98 a	99 a	99 a	99 a
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
13	SONIC	70	WG	0.131	lb ai/a	3	oz/a	PRE	A	94 a	99 a	99 a	99 a
13	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	8"W	C				
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
14	SONIC	70	WG	0.197	lb ai/a	4.5	oz/a	PRE	A	99 a	99 a	99 a	99 a
14	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	8"W	C				
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	4"W	B		99 a	99 a	99 a
15	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	4"W	B				
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B				
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	21DA-C	D				
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D				

Sequential Herbicide Programs in Soybean.

Trial ID: 10-52-MW100

Location: Belleville Res Center

Pest Code	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code				
Rating Date	06-30-10	07-21-10	08-11-10	09-30-10
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing	0 DA-D	0 DA-D	21 DA-D	
Trt-Eval Interval	0 DA-C	21 DA-C	42 DA-C	EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
16	ENVIVE	41.3	WG			3.5	oz/a	PRE	A	96 a	99 a	99 a	99 a
16	CLASSIC	25	WG	0.02	lb ai/a			PRE	A				
16	HARMONY SG	50	SG	0.00643	lb ai/a			PRE	A				
16	VALOR SX	51	WG	0.0635	lb ai/a			PRE	A				
16	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	8"W	C				
16	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C				
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
17	ENVIVE	41.3	WG			3.5	oz/a	PRE	A	97 a	99 ab	99 ab	99 a
17	CLASSIC	25	WG	0.02	lb ai/a			PRE	A				
17	HARMONY SG	50	SG	0.00643	lb ai/a			PRE	A				
17	VALOR SX	51	WG	0.0635	lb ai/a			PRE	A				
17	ASSURE II	0.88	EC	0.0413	lb ai/a	6	fl oz/a	8"W	C				
17	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C				
17	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	8"W	C				
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
18	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	8"W	C		92 c	93 c	99 a
18	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C				
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
19	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	99 a	99 a	99 a	99 a
19	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C				
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
LSD (P=.05)										14.4	3.0	2.0	0.0
Replicate F										2.520	1.593	0.865	0.000
Replicate Prob(F)										0.0749	0.2018	0.4650	1.0000
Treatment F										41.084	456.384	1018.348	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	1.0000

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

Sequential Herbicide Programs in Soybean.

Trial ID: 10-52-MW100

Location: Belleville Res Center

								AMBTR	AMBTR	AMBTR	AMBTR
Pest Code								06-30-10	07-21-10	08-11-10	09-30-10
Crop Code								Control	Control	Control	Control
Rating Date								Percent	Percent	Percent	Percent
Rating Data Type								0 DA-D	21 DA-D	21 DA-D	21 DA-D
Rating Unit								0 DA-C	21 DA-C	42 DA-C	EOS
Rating Timing											
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	NONTREATED									0 e	0 e
2	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	PRE	A	88 ab	98 a
2	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C		98 a
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		98 a
3	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	16 d	91 c
3	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C		89 c
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		84 bcd
4	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	4"W	B		96 ab
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B		97 ab
4	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	21DA-C	D		99 a
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D		
5	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	8"W	C		95 b
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		94 ab
6	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	4"W	B		82 cd
6	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	4"W	B		99 a
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B		99 a
6	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	21DA-C	D		98 a
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D		
7	BOUNDARY	6.5	EC	1.22	lb ai/a	1.5	pt/a	PRE	A	30 c	98 a
7	FLEXSTAR GT	3.31	SL	1.24	lb ai/a	3	pt/a	8"W	C		98 a
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		96 a
8	FLEXSTAR GT	3.31	SL	0.93	lb ai/a	2.25	pt/a	4"W	B		98 a
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B		99 a
8	FLEXSTAR GT	3.31	SL	0.93	lb ai/a	2.25	pt/a	21DA-C	D		99 a
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D		
9	VALOR XLT	40.3	WG			3	oz/a	PRE	A	91 a	96 ab
9	VALOR SX	51	WG					PRE	A	96 ab	96 ab
9	CLASSIC	25	WG	0.0194	lb ai/a			PRE	A	98 a	98 a
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C		98 a
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W	B		97 ab
10	MON 63410	3	CS	1.13	lb ai/a	3	pt/a	4"W	B		98 a
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B		99 a
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	21DA-C	D		
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D		
11	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	PRE	A	86 ab	97 a
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C		97 ab
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		92 abc
12	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	PRE	A	94 a	98 a
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C		98 a
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		99 a
13	SONIC	70	WG	0.131	lb ai/a	3	oz/a	PRE	A	78 b	97 ab
13	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	8"W	C		97 ab
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		98 a
14	SONIC	70	WG	0.197	lb ai/a	4.5	oz/a	PRE	A	84 ab	97 a
14	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	8"W	C		98 a
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C		99 a
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	4"W	B		98 a
15	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	4"W	B		98 a
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	B		97 a
15	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	21DA-C	D		
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	21DA-C	D		

Sequential Herbicide Programs in Soybean.

Trial ID: 10-52-MW100

Location: Belleville Res Center

Pest Code	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code				
Rating Date	06-30-10	07-21-10	08-11-10	09-30-10
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing	0 DA-D	21 DA-D	21 DA-D	
Trt-Eval Interval	0 DA-C	21 DA-C	42 DA-C	EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
16	ENVIVE	41.3	WG			3.5	oz/a	PRE	A	91 a	98 a	98 a	99 a
16	CLASSIC	25	WG	0.02	lb ai/a			PRE	A				
16	HARMONY SG	50	SG	0.00643	lb ai/a			PRE	A				
16	VALOR SX	51	WG	0.0635	lb ai/a			PRE	A				
16	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	8"W	C				
16	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C				
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
17	ENVIVE	41.3	WG			3.5	oz/a	PRE	A	88 ab	87 d	79 d	77 d
17	CLASSIC	25	WG	0.02	lb ai/a			PRE	A				
17	HARMONY SG	50	SG	0.00643	lb ai/a			PRE	A				
17	VALOR SX	51	WG	0.0635	lb ai/a			PRE	A				
17	ASSURE II	0.88	EC	0.0413	lb ai/a	6	fl oz/a	8"W	C				
17	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C				
17	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	8"W	C				
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
18	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	8"W	C		90 c	92 bc	90 abc
18	SYNCHRONY XP	28.4	WG	0.00666	lb ai/a	0.375	oz/a	8"W	C				
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
19	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	83 ab	97 ab	97 ab	92 ab
19	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	8"W	C				
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	8"W	C				
LSD (P=.05)										12.0	2.6	5.1	9.7
Replicate F										0.485	3.438	2.211	1.380
Replicate Prob(F)										0.6952	0.0231	0.0974	0.2588
Treatment F										64.029	597.749	153.103	43.232
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

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

Trial Comments

1. Protocol: Syngenta (CNN02A), Valent, FMC, Dow, DuPont, BASF.
2. CI/WC at 0, 21, and 42 DA-C and at harvest; CI at 14 DAE.
3. Yield.
4. Application timings: B = 4"W but no later than V3 soybean, C = 8"W in treatment #5.
5. DAE = Days after emergence. EOS = End of season.
Ratings on 6-26-10 at 14 DAE were also 19 DA-A.
Ratings on 6-30-10 at 0 DA-C were also 23 DA-A.
Ratings on 7-21-10 at 21 DA-C were also 27 DA-B.
Injury was chlorosis on the newest trifoliate.
6. Harvested 10-21-10, (2) 30 inch rows by 22 ft.