

Fall Applied Herbicides

Southern Illinois University

General Fall Herbicides in Soybean.

Trial ID: 09-8A

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: 11-21-08

Objectives: Evaluate the efficacy of various herbicide treatments for burndown and residual control of winter annual weeds in fall application ahead of soybean.

Crop 1: GLXMA Soybean Variety: AG 4404 Description: RR/STS
Planting Method: SEEDED Planting Date: 06-27-09
Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: HORPU Hordeum pusillum Nutt. barley, little
Pest 2 Type: W Code: RANAB Ranunculus abortivus L. buttercup, smallflower
Pest 3 Type: W Code: LAMAM Lamium amplexicaule L. henbit
Pest 4 Type: W Code: STEME Stellaria media (L.) Vill. chickweed, common
Pest 5 Type: W Code: SENGL Senecio glabellus Poir. groundsel, cressleaf
Pest 6 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant

Plot Width, Unit: 10 FT Site Type: FIELD
Plot Length, Unit: 33 FT Tillage Type: NO-TILL
Replications: 4 Study Design: Randomized Complete Block

Prior Crops, Year
1. ZEAMD 2008

Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 100 LB/A

% OM: 1.8 Texture: SILT LOAM
pH: 5.8 Soil Name: PIERRON
CEC: 12 Fert. Level: P1 73 LB/A, K 436 LB/A

	Application Description		
	A	B	C
Application Date:	11-21-08	04-01-09	
Time of Day:	11:30	10:00	Not
Application Method:	Spray	Spray	Applied
Application Timing:	FALL	APRIL1	POST
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	DKT	RFK	
Air Temperature, Unit:	32 F	50 F	
% Relative Humidity:	50	70	
Wind Velocity, Unit:	1 MPH	3 MPH	
Dew Presence (Y/N):	N	N	
Soil Temperature, Unit:	42 F		
Soil Moisture:	NORMAL	ABONOR	
% Cloud Cover:	0		

11-21-08 04-01-09
Crop stage at application: NA LVS NA LVS NA LVS

	Pest Stage At Each Application		
	11-21-08	04-01-09	
Application Date:	11-21-08	04-01-09	
Weed Code:	HORPU	HORPU	HORPU
Stage Majority (leaves):	NA	4	NA
Stage Min, Max:		3 4	
Height Majority:		3 IN	
Height Min, Max:		1 3	
Density, Unit:		1 FT2	
Weed Code:	RANAB	RANAB	RANAB
Stage Majority (leaves):	NA	4	NA
Stage Min, Max:		3 4	
Height Majority:		2 IN	
Height Min, Max:		1 2	
Density, Unit:		1 FT2	
Weed Code:	LAMAM	LAMAM	LAMAM
Stage Majority (leaves):	4	NA	NA
Stage Min, Max:	2 6		
Height Majority:	1 IN		
Height Min, Max:	1 2		
Density, Unit:	1 FT2		
Weed Code:	STEME	STEME	STEME
Stage Majority (leaves):	NA	NA	NA
Weed Code:	SENGL	SENGL	SENGL
Stage Majority (leaves):	NA	NA	NA
Weed Code:	AMBTR	AMBTR	AMBTR
Stage Majority (leaves):	NA	NA	NA

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

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Crop Code									11-26-08	12-12-08	04-01-09	04-06-09	04-22-09	05-21-09	
Rating Date									Control	Control	Control	Control	Control	Control	
Rating Data Type									Percent	Percent	Percent	Percent	Percent	Percent	
Rating Unit									At spring	Greenup	5 DA-B	21 DA-B	0 DAPP		
Rating Timing															
Trt-Eval Interval									5 DA-A	21 DA-A					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	NONTREATED									0 a	0 a	0 c		0 e	
2	BAS 800 04H	2.85	SC	0.0223	lb ai/a	1	fl oz/a	FALL	A	0 a	0 a	99 a		94 ab	
2	SCEPTER	70	WG	0.123	lb ai/a	2.8	oz/a	FALL	A						
2	CORNERSTONE	3	SL	0.56	lb ae/a	24	fl oz/a	FALL	A						
2	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	FALL	A						
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
3	BAS 804 00H	68	WG	0.085	lb ai/a	2	oz/a	FALL	A	0 a	0 a	99 a		76 cd	
3	CORNERSTONE	3	SL	0.56	lb ae/a	24	fl oz/a	FALL	A						
3	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	FALL	A						
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
4	CANOPY EX	29.5	WG			2	oz/a	FALL	A	0 a	0 a	97 a		93 ab	
4	CLASSIC	25	WG	0.0283	lb ai/a			FALL	A						
4	EXPRESS	50	SG	0.00848	lb ai/a			FALL	A						
4	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	FALL	A						
4	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	FALL	A						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
5	VALOR XLT	40.3	WG			3	oz/a	FALL	A	0 a	0 a	99 a		99 a	
5	VALOR SX	51	WG	0.056	lb ai/a			FALL	A						
5	CLASSIC	25	WG	0.0194	lb ai/a			FALL	A						
5	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
5	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A						
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
6	VALOR XLT	40.3	WG			4	oz/a	FALL	A	0 a	0 a	99 a		98 ab	
6	VALOR SX	51	WG	0.075	lb ai/a			FALL	A						
6	CLASSIC	25	WG	0.0258	lb ai/a			FALL	A						
6	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
6	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
7	VALOR XLT	40.3	WG			5.0	oz/a	FALL	A	0 a	0 a	99 a		98 ab	
7	VALOR SX	51	WG	0.093	lb ai/a			FALL	A						
7	CLASSIC	25	WG	0.0322	lb ai/a			FALL	A						
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
7	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
8	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A	0 a	0 a	99 a		86 bc	
8	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0 a	0 a	98 a	98	99	97 ab
9	2,4-D LV 4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A						
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
9	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	APRIL1	B						
9	RAGE D-TECH	4.06	EC	0.38	lb ai/a	12	fl oz/a	APRIL1	B						
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	APRIL1	B						
9	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	APRIL1	B						
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						

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Pest Code		HORPU	HORPU	HORPU	HORPU	HORPU	HORPU
Crop Code							
Rating Date		11-26-08	12-12-08	04-01-09	04-06-09	04-22-09	05-21-09
Rating Data Type		Control	Control	Control	Control	Control	Control
Rating Unit		Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing				At spring			
Trt-Eval Interval		5 DA-A	21 DA-A	Greenup	5 DA-B	21 DA-B	0 DAPP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
10	AUTHORITY MTZ	45	WG	0.31	lb ai/a	11	oz/a	FALL	A		0 a	0 a	90 b		73 d
10	EXPRESS	50	SG	0.0047	lb ai/a	0.15	oz/a	FALL	A						
10	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
10	PRIME OIL COC	100	SL	1	pt/a	1	pt/a	FALL	A						
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
LSD (P=.05)											0.0	0.0	3.7	.	11.8
Replicate F											0.000	0.000	1.995		1.281
Replicate Prob(F)											1.0000	1.0000	0.1385		0.3007
Treatment F											0.000	0.000	607.736		54.687
Treatment Prob(F)											1.0000	1.0000	0.0001		0.0001

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

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Pest Code									RANAB	RANAB	RANAB	RANAB	RANAB	RANAB			
Crop Code									11-26-08	12-12-08	04-01-09	04-06-09	04-22-09	05-21-09			
Rating Date									Control	Control	Control	Control	Control	Control			
Rating Data Type									Percent	Percent	Percent	Percent	Percent	Percent			
Rating Unit									At spring	Greenup	5 DA-B	21 DA-B	0 DAPP				
Rating Timing																	
Trt-Eval Interval																	
Trt	Treatment	Form	Form		Rate	Other	Other	Growth	Appl								
No.	Name	Conc	Type	Rate	Unit	Rate	Rate	Unit	Stage	Code							
1	NONTREATED										0 a	0 a	0 e	0 b			
2	BAS 800 04H	2.85	SC	0.0223	lb ai/a		1 fl oz/a		FALL	A	0 a	0 a	99 a	99 a			
2	SCEPTER	70	WG	0.123	lb ai/a	2.8	oz/a		FALL	A							
2	CORNERSTONE	3	SL	0.56	lb ae/a	24	fl oz/a		FALL	A							
2	PRIME OIL COC	100	SL	1	% v/v	1	% v/v		FALL	A							
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v		FALL	A							
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		POST	C							
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v		POST	C							
3	BAS 804 00H	68	WG	0.085	lb ai/a	2	oz/a		FALL	A	0 a	0 a	80 d	99 a			
3	CORNERSTONE	3	SL	0.56	lb ae/a	24	fl oz/a		FALL	A							
3	PRIME OIL COC	100	SL	1	% v/v	1	% v/v		FALL	A							
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v		FALL	A							
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		POST	C							
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v		POST	C							
4	CANOPY EX	29.5	WG			2	oz/a		FALL	A	0 a	0 a	99 a	99 a			
4	CLASSIC	25	WG	0.0283	lb ai/a				FALL	A							
4	EXPRESS	50	SG	0.00848	lb ai/a				FALL	A							
4	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a		FALL	A							
4	PRIME OIL COC	100	SL	1	% v/v	1	% v/v		FALL	A							
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v		FALL	A							
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		POST	C							
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v		POST	C							
5	VALOR XLT	40.3	WG			3	oz/a		FALL	A	0 a	0 a	99 a	99 a			
5	VALOR SX	51	WG	0.056	lb ai/a				FALL	A							
5	CLASSIC	25	WG	0.0194	lb ai/a				FALL	A							
5	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a		FALL	A							
5	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a		FALL	A							
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v		FALL	A							
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		POST	C							
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v		POST	C							
6	VALOR XLT	40.3	WG			4	oz/a		FALL	A	0 a	0 a	99 a	99 a			
6	VALOR SX	51	WG	0.075	lb ai/a				FALL	A							
6	CLASSIC	25	WG	0.0258	lb ai/a				FALL	A							
6	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a		FALL	A							
6	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a		FALL	A							
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v		FALL	A							
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		POST	C							
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v		POST	C							
7	VALOR XLT	40.3	WG			5.0	oz/a		FALL	A	0 a	0 a	99 a	99 a			
7	VALOR SX	51	WG	0.093	lb ai/a				FALL	A							
7	CLASSIC	25	WG	0.0322	lb ai/a				FALL	A							
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a		FALL	A							
7	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a		FALL	A							
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v		FALL	A							
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		POST	C							
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v		POST	C							
8	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a		FALL	A	0 a	0 a	89 c	99 a			
8	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a		FALL	A							
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v		FALL	A							
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		POST	C							
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v		POST	C							
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		FALL	A	0 a	0 a	91 bc	91	99	99 a	
9	2,4-D LV 4	3.8	EC	0.475	lb ai/a	1	pt/a		FALL	A							
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v		FALL	A							
9	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a		APRIL1	B							
9	RAGE D-TECH	4.06	EC	0.38	lb ai/a	12	fl oz/a		APRIL1	B							
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		APRIL1	B							
9	PRIME OIL COC	100	SL	1	% v/v	1	% v/v		APRIL1	B							
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		POST	C							
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Rating Timing				At spring			
Trt-Eval Interval		5 DA-A	21 DA-A	Greenup	5 DA-B	21 DA-B	0 DAPP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
10	AUTHORITY MTZ	45	WG	0.31	lb ai/a	11	oz/a	FALL	A	0 a	0 a	94 b			99 a
10	EXPRESS	50	SG	0.0047	lb ai/a	0.15	oz/a	FALL	A						
10	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
10	PRIME OIL COC	100	SL	1	pt/a	1	pt/a	FALL	A						
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
LSD (P=.05)										0.0	0.0	4.9	.	.	0.0
Replicate F										0.000	0.000	0.852			0.000
Replicate Prob(F)										1.0000	1.0000	0.4777			1.0000
Treatment F										0.000	0.000	321.788			0.000
Treatment Prob(F)										1.0000	1.0000	0.0001			1.0000

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

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Rating Unit									Percent	Percent	Percent	Percent	Percent	Percent	
Rating Timing											At spring				
Trt-Eval Interval									5 DA-A	21 DA-A	Greenup	5 DA-B	21 DA-B	0 DAPP	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	NONTREATED									0 a	0 a	0 c		0 c	
2	BAS 800 04H	2.85	SC	0.0223	lb ai/a	1	fl oz/a	FALL	A	0 a	0 a	99 a		99 a	
2	SCEPTER	70	WG	0.123	lb ai/a	2.8	oz/a	FALL	A						
2	CORNERSTONE	3	SL	0.56	lb ae/a	24	fl oz/a	FALL	A						
2	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	FALL	A						
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
3	BAS 804 00H	68	WG	0.085	lb ai/a	2	oz/a	FALL	A	0 a	0 a	99 a		99 a	
3	CORNERSTONE	3	SL	0.56	lb ae/a	24	fl oz/a	FALL	A						
3	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	FALL	A						
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
4	CANOPY EX	29.5	WG			2	oz/a	FALL	A	0 a	0 a	99 a		99 a	
4	CLASSIC	25	WG	0.0283	lb ai/a			FALL	A						
4	EXPRESS	50	SG	0.00848	lb ai/a			FALL	A						
4	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	FALL	A						
4	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	FALL	A						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
5	VALOR XLT	40.3	WG			3	oz/a	FALL	A	0 a	0 a	99 a		99 a	
5	VALOR SX	51	WG	0.056	lb ai/a			FALL	A						
5	CLASSIC	25	WG	0.0194	lb ai/a			FALL	A						
5	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
5	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A						
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
6	VALOR XLT	40.3	WG			4	oz/a	FALL	A	0 a	0 a	99 a		99 a	
6	VALOR SX	51	WG	0.075	lb ai/a			FALL	A						
6	CLASSIC	25	WG	0.0258	lb ai/a			FALL	A						
6	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
6	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
7	VALOR XLT	40.3	WG			5.0	oz/a	FALL	A	0 a	0 a	99 a		99 a	
7	VALOR SX	51	WG	0.093	lb ai/a			FALL	A						
7	CLASSIC	25	WG	0.0322	lb ai/a			FALL	A						
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
7	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
8	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A	0 a	0 a	99 a		99 a	
8	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	FALL	A						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	0 a	0 a	98 b	98	99	98 b
9	2,4-D LV 4	3.8	EC	0.475	lb ai/a	1	pt/a	FALL	A						
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
9	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	APRIL1	B						
9	RAGE D-TECH	4.06	EC	0.38	lb ai/a	12	fl oz/a	APRIL1	B						
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	APRIL1	B						
9	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	APRIL1	B						
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						

General Fall Herbicides in Soybean.

Trial ID: 09-8A

Location: Belleville Res. Center

Pest Code	LAMAM	LAMAM	LAMAM	LAMAM	LAMAM	LAMAM
Crop Code						
Rating Date	11-26-08	12-12-08	04-01-09	04-06-09	04-22-09	05-21-09
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing			At spring			
Trt-Eval Interval	5 DA-A	21 DA-A	Greenup	5 DA-B	21 DA-B	0 DAPP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
10	AUTHORITY MTZ	45	WG	0.31	lb ai/a	11	oz/a	FALL	A	0 a	0 a	99 a			99 a
10	EXPRESS	50	SG	0.0047	lb ai/a	0.15	oz/a	FALL	A						
10	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
10	PRIME OIL COC	100	SL	1	pt/a	1	pt/a	FALL	A						
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
LSD (P=.05)										0.0	0.0	0.9	.	.	0.9
Replicate F										0.000	0.000	1.000			1.000
Replicate Prob(F)										1.0000	1.0000	0.4079			0.4079
Treatment F										0.000	0.000	9780.001			9780.001
Treatment Prob(F)										1.0000	1.0000	0.0001			0.0001

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

General Fall Herbicides in Soybean.

Trial ID: 09-8A

Location: Belleville Res. Center

Pest Code										STEME	STEME	STEME	STEME	STEME	STEME
Crop Code										11-26-08	12-12-08	04-01-09	04-06-09	04-22-09	05-21-09
Rating Date										Control	Control	Control	Control	Control	Control
Rating Data Type										Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit												At spring			
Rating Timing												Greenup			
Trt-Eval Interval										5 DA-A	21 DA-A		5 DA-B	21 DA-B	0 DAPP
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	NONTREATED									0 a	0 a	0 c		0 c	
2	BAS 800 04H	2.85	SC	0.0223	lb ai/a	1 fl oz/a		FALL	A	0 a	0 a	99 a		99 a	
2	SCEPTER	70	WG	0.123	lb ai/a	2.8 oz/a		FALL	A						
2	CORNERSTONE	3	SL	0.56	lb ae/a	24 fl oz/a		FALL	A						
2	PRIME OIL COC	100	SL	1	% v/v	1 % v/v		FALL	A						
2	N-PAK AMS	100	SL	5	% v/v	5 % v/v		FALL	A						
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		POST	C						
2	N-PAK AMS	100	SL	5	% v/v	5 % v/v		POST	C						
3	BAS 804 00H	68	WG	0.085	lb ai/a	2 oz/a		FALL	A	0 a	0 a	99 a		99 a	
3	CORNERSTONE	3	SL	0.56	lb ae/a	24 fl oz/a		FALL	A						
3	PRIME OIL COC	100	SL	1	% v/v	1 % v/v		FALL	A						
3	N-PAK AMS	100	SL	5	% v/v	5 % v/v		FALL	A						
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		POST	C						
3	N-PAK AMS	100	SL	5	% v/v	5 % v/v		POST	C						
4	CANOPY EX	29.5	WG			2 oz/a		FALL	A	0 a	0 a	99 a		99 a	
4	CLASSIC	25	WG	0.0283	lb ai/a			FALL	A						
4	EXPRESS	50	SG	0.00848	lb ai/a			FALL	A						
4	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16 fl oz/a		FALL	A						
4	PRIME OIL COC	100	SL	1	% v/v	1 % v/v		FALL	A						
4	N-PAK AMS	100	SL	5	% v/v	5 % v/v		FALL	A						
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		POST	C						
4	N-PAK AMS	100	SL	5	% v/v	5 % v/v		POST	C						
5	VALOR XLT	40.3	WG			3 oz/a		FALL	A	0 a	0 a	99 a		99 a	
5	VALOR SX	51	WG	0.056	lb ai/a			FALL	A						
5	CLASSIC	25	WG	0.0194	lb ai/a			FALL	A						
5	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1 pt/a		FALL	A						
5	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16 fl oz/a		FALL	A						
5	N-PAK AMS	100	SL	5	% v/v	5 % v/v		FALL	A						
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		POST	C						
5	N-PAK AMS	100	SL	5	% v/v	5 % v/v		POST	C						
6	VALOR XLT	40.3	WG			4 oz/a		FALL	A	0 a	0 a	99 a		99 a	
6	VALOR SX	51	WG	0.075	lb ai/a			FALL	A						
6	CLASSIC	25	WG	0.0258	lb ai/a			FALL	A						
6	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1 pt/a		FALL	A						
6	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16 fl oz/a		FALL	A						
6	N-PAK AMS	100	SL	5	% v/v	5 % v/v		FALL	A						
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		POST	C						
6	N-PAK AMS	100	SL	5	% v/v	5 % v/v		POST	C						
7	VALOR XLT	40.3	WG			5.0 oz/a		FALL	A	0 a	0 a	99 a		99 a	
7	VALOR SX	51	WG	0.093	lb ai/a			FALL	A						
7	CLASSIC	25	WG	0.0322	lb ai/a			FALL	A						
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1 pt/a		FALL	A						
7	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16 fl oz/a		FALL	A						
7	N-PAK AMS	100	SL	5	% v/v	5 % v/v		FALL	A						
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		POST	C						
7	N-PAK AMS	100	SL	5	% v/v	5 % v/v		POST	C						
8	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1 pt/a		FALL	A	0 a	0 a	98 b		98 b	
8	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16 fl oz/a		FALL	A						
8	N-PAK AMS	100	SL	5	% v/v	5 % v/v		FALL	A						
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		POST	C						
8	N-PAK AMS	100	SL	5	% v/v	5 % v/v		POST	C						
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		FALL	A	0 a	0 a	99 ab	99	99	99 ab
9	2,4-D LV 4	3.8	EC	0.475	lb ai/a	1 pt/a		FALL	A						
9	N-PAK AMS	100	SL	5	% v/v	5 % v/v		FALL	A						
9	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2 oz/a		APRIL1	B						
9	RAGE D-TECH	4.06	EC	0.38	lb ai/a	12 fl oz/a		APRIL1	B						
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		APRIL1	B						
9	PRIME OIL COC	100	SL	1	% v/v	1 % v/v		APRIL1	B						
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		POST	C						
9	N-PAK AMS	100	SL	5	% v/v	5 % v/v		POST	C						

General Fall Herbicides in Soybean.

Trial ID: 09-8A

Location: Belleville Res. Center

Pest Code	STEME	STEME	STEME	STEME	STEME	STEME
Crop Code						
Rating Date	11-26-08	12-12-08	04-01-09	04-06-09	04-22-09	05-21-09
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing			At spring			
Trt-Eval Interval	5 DA-A	21 DA-A	Greenup	5 DA-B	21 DA-B	0 DAPP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
10	AUTHORITY MTZ	45	WG	0.31	lb ai/a	11	oz/a	FALL	A	0 a	0 a	99 a			99 a
10	EXPRESS	50	SG	0.0047	lb ai/a	0.15	oz/a	FALL	A						
10	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
10	PRIME OIL COC	100	SL	1	pt/a	1	pt/a	FALL	A						
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C						
LSD (P=.05)										0.0	0.0	1.0	.	.	1.0
Replicate F										0.000	0.000	0.669			0.669
Replicate Prob(F)										1.0000	1.0000	0.5782			0.5782
Treatment F										0.000	0.000	8719.562			8719.562
Treatment Prob(F)										1.0000	1.0000	0.0001			0.0001

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

General Fall Herbicides in Soybean.

Trial ID: 09-8A

Location: Belleville Res. Center

Pest Code		SENGL	SENGL	SENGL	SENGL	AMBTR
Crop Code						
Rating Date		04-01-09	04-06-09	04-22-09	05-21-09	05-21-09
Rating Data Type		Control	Control	Control	Control	Control
Rating Unit		Percent	Percent	Percent	Percent	Percent
Rating Timing		At spring				
Trt-Eval Interval		Greenup	5 DA-B	21 DA-B	0 DAPP	0 DAPP

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 c	0 b	
2	BAS 800 04H	2.85	SC	0.0223	lb ai/a	1 fl oz/a		FALL	A	99 a		99 a	89 a	
2	SCEPTER	70	WG	0.123	lb ai/a	2.8 oz/a		FALL	A					
2	CORNERSTONE	3	SL	0.56	lb ae/a	24 fl oz/a		FALL	A					
2	PRIME OIL COC	100	SL	1	% v/v	1 % v/v		FALL	A					
2	N-PAK AMS	100	SL	5	% v/v	5 % v/v		FALL	A					
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		POST	C					
2	N-PAK AMS	100	SL	5	% v/v	5 % v/v		POST	C					
3	BAS 804 00H	68	WG	0.085	lb ai/a	2 oz/a		FALL	A	97 ab		97 ab	79 a	
3	CORNERSTONE	3	SL	0.56	lb ae/a	24 fl oz/a		FALL	A					
3	PRIME OIL COC	100	SL	1	% v/v	1 % v/v		FALL	A					
3	N-PAK AMS	100	SL	5	% v/v	5 % v/v		FALL	A					
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		POST	C					
3	N-PAK AMS	100	SL	5	% v/v	5 % v/v		POST	C					
4	CANOPY EX	29.5	WG			2 oz/a		FALL	A	99 a		99 a	93 a	
4	CLASSIC	25	WG	0.0283	lb ai/a			FALL	A					
4	EXPRESS	50	SG	0.00848	lb ai/a			FALL	A					
4	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16 fl oz/a		FALL	A					
4	PRIME OIL COC	100	SL	1	% v/v	1 % v/v		FALL	A					
4	N-PAK AMS	100	SL	5	% v/v	5 % v/v		FALL	A					
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		POST	C					
4	N-PAK AMS	100	SL	5	% v/v	5 % v/v		POST	C					
5	VALOR XLT	40.3	WG			3 oz/a		FALL	A	99 a		99 a	93 a	
5	VALOR SX	51	WG	0.056	lb ai/a			FALL	A					
5	CLASSIC	25	WG	0.0194	lb ai/a			FALL	A					
5	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1 pt/a		FALL	A					
5	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16 fl oz/a		FALL	A					
5	N-PAK AMS	100	SL	5	% v/v	5 % v/v		FALL	A					
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		POST	C					
5	N-PAK AMS	100	SL	5	% v/v	5 % v/v		POST	C					
6	VALOR XLT	40.3	WG			4 oz/a		FALL	A	99 a		99 a	95 a	
6	VALOR SX	51	WG	0.075	lb ai/a			FALL	A					
6	CLASSIC	25	WG	0.0258	lb ai/a			FALL	A					
6	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1 pt/a		FALL	A					
6	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16 fl oz/a		FALL	A					
6	N-PAK AMS	100	SL	5	% v/v	5 % v/v		FALL	A					
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		POST	C					
6	N-PAK AMS	100	SL	5	% v/v	5 % v/v		POST	C					
7	VALOR XLT	40.3	WG			5.0 oz/a		FALL	A	99 a		99 a	97 a	
7	VALOR SX	51	WG	0.093	lb ai/a			FALL	A					
7	CLASSIC	25	WG	0.0322	lb ai/a			FALL	A					
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1 pt/a		FALL	A					
7	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16 fl oz/a		FALL	A					
7	N-PAK AMS	100	SL	5	% v/v	5 % v/v		FALL	A					
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		POST	C					
7	N-PAK AMS	100	SL	5	% v/v	5 % v/v		POST	C					
8	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1 pt/a		FALL	A	95 b		95 b	24 b	
8	ROUNDUP P-MAX	4.5	SL	0.56	lb ae/a	16 fl oz/a		FALL	A					
8	N-PAK AMS	100	SL	5	% v/v	5 % v/v		FALL	A					
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		POST	C					
8	N-PAK AMS	100	SL	5	% v/v	5 % v/v		POST	C					
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		FALL	A	99 a	99	99	99 a	99 a
9	2,4-D LV 4	3.8	EC	0.475	lb ai/a	1 pt/a		FALL	A					
9	N-PAK AMS	100	SL	5	% v/v	5 % v/v		FALL	A					
9	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2 oz/a		APRIL1	B					
9	RAGE D-TECH	4.06	EC	0.38	lb ai/a	12 fl oz/a		APRIL1	B					
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		APRIL1	B					
9	PRIME OIL COC	100	SL	1	% v/v	1 % v/v		APRIL1	B					
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a		POST	C					
9	N-PAK AMS	100	SL	5	% v/v	5 % v/v		POST	C					

General Fall Herbicides in Soybean.

Trial ID: 09-8A

Location: Belleville Res. Center

Pest Code	SENGL	SENGL	SENGL	SENGL	AMBTR
Crop Code					
Rating Date	04-01-09	04-06-09	04-22-09	05-21-09	05-21-09
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Timing	At spring				
Trt-Eval Interval	Greenup	5 DA-B	21 DA-B	0 DAPP	0 DAPP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
10	AUTHORITY MTZ	45	WG	0.31	lb ai/a	11	oz/a	FALL	A	95 b		95 b	80 a
10	EXPRESS	50	SG	0.0047	lb ai/a	0.15	oz/a	FALL	A				
10	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
10	PRIME OIL COC	100	SL	1	pt/a	1	pt/a	FALL	A				
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C				
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	POST	C				
LSD (P=.05)										3.8	.	.	3.8 26.4
Replicate F										1.879		1.879	0.826
Replicate Prob(F)										0.1569		0.1569	0.4910
Treatment F										562.055		562.055	14.213
Treatment Prob(F)										0.0001		0.0001	0.0001

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

Trial Comments

1. Protocol: BASF, Valent, FMC.
2. Ratings: WC at 5-7 and 14-21 DAT, April 1 (spring greenup), and prior to planting.
3. DAPP = Days after planned planting. Planting was delayed due to wet field conditions.
4. By 5-21-09, RANAB in the nontreated plots was senescing naturally thus ratings are different than on 4-1-09.
5. Not harvested.