

Comparison of Fall Applied Herbicides in Soybean.

02-2B-W145

OBJECTIVE: Evaluate various herbicide programs for fall applications in soybean.

SUMMARY: The purpose of this study was to compare winter and summer annual weed control prior to planting no-till soybeans from different fall applied herbicide programs. Due to excessive rainfall in May, soybean planting was delayed until May 30 which may have reduced summer annual weed control from some of the fall applied herbicide programs. Common chickweed and henbit control was at least 90% on April 1, 2002 from all fall herbicide treatments except Salvo alone. Salvo alone at 0.8 pt/A and Sencor or Valor plus Salvo provided the least control of wild garlic at the April evaluation timing. Only Canopy XL plus Express controlled at least 85% of common and giant ragweed at planting. Treatments that included Canopy XL, Classic or Maverick controlled at least 77% of giant foxtail at planting. Little barley control at planting was at least 91% from treatments that included glyphosate (Roundup UltraMax, Touchdown, Glyphomax Plus, Backdraft, Extreme), Express, or Maverick.

HERBICIDES

AUTHORITY 75 WG
 BACKDRAFT 1.5 SL
 BANVEL 4 EC
 CANOPY XL 56.3 WG
 CLASSIC 25 WG
 EXPRESS 75 WG
 EXTREME 2.17 SL
 GLYPHOMAX PLUS 3 SL
 MAVERICK 75 WG
 PRINCEP 90 WG
 PYTHON 80 WG
 ROUNDUP ULTRA MAX 3.7 SL
 SALVO 5 EC
 SENCOR 75 WG
 TOUCHDOWN 3 SL
 VALOR 51 WG

WEEDS

barley, little
 barnyardgrass
 chickweed, common
 cocklebur, common
 foxtail, giant
 garlic, wild
 henbit
 ragweed, common
 ragweed, giant
 smartweed, Pennsylvania
 waterhemp, common
 weeds, generally

CROP

soybean

Bryan Young

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

Comparison of Fall Applied Herbicides in Soybean.

Project Code: 02-2B-W145 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 10-31-02

Objective:

Evaluate various herbicide programs for fall applications in soybean.

Weed Code	Common Name	Scientific Name
1. ALLVI	garlic, wild	Allium vineale L.
2. STEME	chickweed, common	Stellaria media (L.) Vill.
3. LAMAM	henbit	Lamium amplexicaule L.
4. HORPU	barley, little	Hordeum pusillum Nutt.
5. SETFA	foxtail, giant	Setaria faberi Herrm.
6. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
7. AMBTR	ragweed, giant	Ambrosia trifida L.
8. XANST	cocklebur, common	Xanthium strumarium L.
9. POLPY	smartweed, Pennsylvania	Polygonum pennsylvanicum L.
10. AMATA	waterhemp, common	Amaranthus rudis Sauer
11. ECHCG	barnyardgrass	Echinochloa crus-galli (L.) Beauv.
12. TTTTT	weeds, generally	

Crop 1:	GLXMA soybean	Variety:	Asgrow 4602 RR
Planting Method:	Seeded	Planting Date:	5-30-02
Rate:	75 S/A	Depth:	1.0 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	28 FT	Reps:	3
Tillage Type:	No-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	ZEAMX, 2001				

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 150 LB/A

Soil Name:	Weir	% OM:	1.5	pH:	6.4	CEC:	9
Texture:	Silt loam	Fert. Level:	P1: 87 LB/A, K: 259 LB/A				

APPLICATION DESCRIPTION

A

Application Date:	11-16-01
Time of Day:	13:30
Application Method:	Spray
Application Timing:	FALL
Applic. Placement:	BROFOL
Air Temp., Unit:	68 F
% Relative Humidity:	70
Wind Velocity, Unit:	0 MPH
Soil Moisture:	NORMAL

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage:	GLXMA NA
Height, Unit:	NA NA

WEED STAGE AT EACH APPLICATION

A

Weed 1 Code:	ALLVI
Stage(leaves):	3-4
Height(inches):	4-6
Density:	Medium
Weed 2 Code:	STEME
Stage(leaves):	10+
Height(inches):	0-2
Density:	Medium

Weed 3 Code: LAMAM
Stage(leaves): 10+
Height(inches): 0-2
Density: Medium

APPLICATION EQUIPMENT

A

Appl. Equipment: CO2 sprayer
Operating Pressure: 40 PSI
Nozzle Type: Flat fan
Nozzle Size: 8002
Boom Length, Unit: 7.5 FT
Spray Volume, Unit: 20 GPA

NOTES:

This study was not harvested.

Comparison of Fall Applied Herbicides in Soybean.

Project Code: 02-2B-W145 Location: Belleville Research Center

Weed Code						ALLVI	ALLVI	ALLVI	STEME	STEME	STEME	LAMAM	LAMAM	LAMAM	HORPU	SETFA	AMBEL	AMBTR					
Crop Code						Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control					
Rating Data Type						Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent					
Rating Unit						12-14-01	3-1-02	4-1-02	12-14-01	3-1-02	4-1-02	12-14-01	3-1-02	4-1-02	5-31-02	5-31-02	5-31-02	5-31-02					
Rating Date						28 DA-A	105 DA-A	136 DA-A	28 DA-A	105 DA-A	136 DA-A	28 DA-A	105 DA-A	136 DA-A	0 DAP	0 DAP	0 DAP	0 DAP					
Trt-Eval Interval																							
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code														
1	NONTREATED									27	83	83	0	0	0	0	0	0	0				
2	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	26	OZ/A	FALL	A	50	90	90	100	100	100	100	100	100	99	37	10	13	
3	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	20	OZ/A	FALL	A	50	90	90	100	100	100	100	100	100	99	50	3		
3	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A														
4	TOUCHDOWN	3	SL	0.75	LB AE/A	32	OZ/A	FALL	A	50	90	90	100	100	100	100	100	100	99	27	0	20	
5	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A	0	30	30	0	0	0	0	0	0	67	47	0	0	
5	HERBIMAX	100	LIQ	1.0	% V/V	1	%V/V	FALL	A														
6	SALVO	5	EC	1.88	LB AE/A	3	PT/A	FALL	A	50	87	87	50	70	70	0	67	67	77	53	0	0	
6	HERBIMAX	100	LIQ	1.0	% V/V	1	%V/V	FALL	A														
7	BANVEL	4	EC	0.5	LB A/A	1	PT/A	FALL	A	33	83	83	83	100	100	83	100	100	92	47	0	0	
8	BACKDRAFT	1.5	SL	0.94	LB A/A	5	PT/A	FALL	A	50	90	90	100	100	100	100	100	100	99	43	0	0	
8	SALVO	5	EC	0.75	LB AE/A	1.2	PT/A	FALL	A														
8	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	FALL	A														
8	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	FALL	A														
9	EXTREME	2.17	SL	0.814	LB A/A	3	PT/A	FALL	A	50	90	90	100	100	100	100	100	100	98	43	0	0	
9	SALVO	5	EC	0.75	LB AE/A	1.2	PT/A	FALL	A														
9	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	FALL	A														
9	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	FALL	A														
10	PYTHON	80	WG	0.04	LB A/A	0.8	OZ/A	FALL	A	50	90	90	100	100	100	100	100	100	98	40	17	20	
10	GLYPHOMAX PLUS	3	SL	0.375	LB AE/A	1	PT/A	FALL	A														
10	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A														
10	AMS	100	DRY	2.0	% W/W	2	%W/W	FALL	A														
10	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	FALL	A														
11	PYTHON	80	WG	0.05	LB A/A	1	OZ/A	FALL	A	50	83	83	83	100	100	83	100	100	80	7	0	0	
11	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A														
11	HERBIMAX	100	LIQ	1.0	% V/V	1	%V/V	FALL	A														
12	GLYPHOMAX PLUS	3	SL	0.56	LB AE/A	1.5	PT/A	FALL	A	50	90	90	100	100	100	100	100	100	99	53	0	0	
12	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A														
12	AMS	100	DRY	2.0	% W/W	2	%W/W	FALL	A														
12	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	FALL	A														

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	ALLVI	ALLVI	ALLVI	STEME	STEME	STEME	LAMAM	LAMAM	LAMAM	HORPU	SETFA	AMBEL	AMBTR
						Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control
						Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
						12-14-01	3-1-02	4-1-02	12-14-01	3-1-02	4-1-02	12-14-01	3-1-02	4-1-02	5-31-02	5-31-02	5-31-02	5-31-02
						28 DA-A	105 DA-A	136 DA-A	28 DA-A	105 DA-A	136 DA-A	28 DA-A	105 DA-A	136 DA-A	0 DAP	0 DAP	0 DAP	0 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code													
13	PYTHON	80	WG	0.05	LB A/A	1	OZ/A	FALL	A	17	90	90	83	100	100	67	100	100	87	62	7	0
13	SENCOR	75	WG	0.188	LB A/A	4	OZ/A	FALL	A													
13	SALVO	5	EC	1	LB AE/A	1.6	PT/A	FALL	A													
13	HERBIMAX	100	LIQ	1.0	% V/V	1	%V/V	FALL	A													
14	CANOPY XL	56.3	WG			4	OZ/A	FALL	A	58	90	90	100	100	100	100	100	100	91	87	43	17
14	->CLASSIC	25	WG	0.0235	LB A/A			FALL	A													
14	->AUTHORITY	75	WG	0.1175	LB A/A			FALL	A													
14	EXPRESS	75	WG	0.0094	LB A/A	0.2	OZ/A	FALL	A													
14	SALVO	5	EC	0.39	LB AE/A	10	OZ/A	FALL	A													
14	HERBIMAX	100	LIQ	1.0	QT/A	1	QT/A	FALL	A													
15	CLASSIC	25	WG	0.0275	LB A/A	1.76	OZ/A	FALL	A	58	90	90	100	100	100	100	100	100	98	85	68	15
15	EXPRESS	75	WG	0.0188	LB A/A	0.4	OZ/A	FALL	A													
15	SALVO	5	EC	0.39	LB AE/A	10	OZ/A	FALL	A													
15	HERBIMAX	100	LIQ	1.0	QT/A	1	QT/A	FALL	A													
16	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	20	OZ/A	FALL	A	50	90	90	100	100	100	100	100	100	99	23	0	0
16	SALVO	5	EC	0.39	LB AE/A	10	OZ/A	FALL	A													
16	CHOICE	100	LIQ	1.0	QT/A	1	QT/A	FALL	A													
17	SENCOR	75	WG	0.375	LB A/A	8	OZ/A	FALL	A	50	60	60	80	93	93	100	100	100	95	20	0	0
17	SALVO	5	EC	0.39	LB AE/A	10	OZ/A	FALL	A													
17	HERBIMAX	100	LIQ	1.0	QT/A	1	QT/A	FALL	A													
18	VALOR	51	WG	0.063	LB A/A	2	OZ/A	FALL	A	17	60	60	80	90	90	80	90	90	63	63	27	50
18	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A													
18	HERBIMAX	100	LIQ	1.0	PT/A	1	PT/A	FALL	A													
19	VALOR	51	WG	0.078	LB A/A	2.45	OZ/A	FALL	A	50	77	77	93	100	100	93	100	100	83	50	30	0
19	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A													
19	HERBIMAX	100	LIQ	1.0	PT/A	1	PT/A	FALL	A													
20	CANOPY XL	56.3	WG			4	OZ/A	FALL	A	50	90	90	83	100	100	83	100	100	88	60	65	75
20	->CLASSIC	25	WG	0.0235	LB A/A			FALL	A													
20	->AUTHORITY	75	WG	0.1175	LB A/A			FALL	A													
20	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A													
20	HERBIMAX	100	LIQ	1.0	PT/A	1	PT/A	FALL	A													
21	VALOR	51	WG	0.078	LB A/A	2.45	OZ/A	FALL	A	50	90	90	93	100	100	83	100	100	88	87	70	99
21	CLASSIC	25	WG	0.025	LB A/A	1.6	OZ/A	FALL	A													
21	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A													
21	HERBIMAX	100	LIQ	1.0	PT/A	1	PT/A	FALL	A													
22	VALOR	51	WG	0.063	LB A/A	2	OZ/A	FALL	A	0	90	90	80	100	100	80	100	100	76	87	73	0
22	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A													
22	PRINCEP	90	WG	1.0	LB A/A	17.8	OZ/A	FALL	A													
22	HERBIMAX	100	LIQ	1.0	PT/A	1	PT/A	FALL	A													

Weed Code	ALLVI	ALLVI	ALLVI	STEME	STEME	STEME	LAMAM	LAMAM	LAMAM	HORPU	SETFA	AMBEL	AMBTR
Crop Code													
Rating Data Type	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	12-14-01	3-1-02	4-1-02	12-14-01	3-1-02	4-1-02	12-14-01	3-1-02	4-1-02	5-31-02	5-31-02	5-31-02	5-31-02
Trt-Eval Interval	28 DA-A	105 DA-A	136 DA-A	28 DA-A	105 DA-A	136 DA-A	28 DA-A	105 DA-A	136 DA-A	0 DAP	0 DAP	0 DAP	0 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code													
23	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	A	50	90	90	83	100	100	83	100	100	96	80	87	99
23	->CLASSIC	25	WG	0.0264	LB A/A			FALL	A													
23	->AUTHORITY	75	WG	0.132	LB A/A			FALL	A													
23	EXPRESS	75	WG	0.0078	LB A/A	0.166	OZ/A	FALL	A													
23	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A													
23	HERBIMAX	100	LIQ	1.0	% V/V	1	%V/V	FALL	A													
24	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	A	17	90	90	75	100	100	75	100	100	90	80	67	30
24	->CLASSIC	25	WG	0.0264	LB A/A			FALL	A													
24	->AUTHORITY	75	WG	0.132	LB A/A			FALL	A													
24	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A													
24	HERBIMAX	100	LIQ	1.0	% V/V	1	%V/V	FALL	A													
25	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	A	0	90	90	50	93	93	50	100	100	66	77	40	50
25	->CLASSIC	25	WG	0.0264	LB A/A			FALL	A													
25	->AUTHORITY	75	WG	0.132	LB A/A			FALL	A													
25	HERBIMAX	100	LIQ	1.0	% V/V	1	%V/V	FALL	A													
26	AUTHORITY	75	WG	0.12	LB A/A	2.56	OZ/A	FALL	A	0	83	83	75	100	100	75	100	100	10	37	0	0
26	EXPRESS	75	WG	0.0047	LB A/A	0.1	OZ/A	FALL	A													
26	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A													
27	SENCOR	75	WG	0.375	LB A/A	8	OZ/A	FALL	A	33	90	90	97	100	100	83	100	100	57	47	0	0
27	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A													
27	HERBIMAX	100	LIQ	1.0	% V/V	1	%V/V	FALL	A													
28	MAVERICK	75	WG	0.0314	LB A/A	0.67	OZ/A	FALL	A	50	90	90	100	100	100	100	100	100	99	87	20	20
28	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	20	OZ/A	FALL	A													
28	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A													
LSD (P=.05)										25.6	19.7	19.7	26.7	8.1	8.1	30.9	18.2	18.2	20.1	28.0	19.4	32.3
Replicate F										0.408	0.424	0.424	10.780	0.048	0.048	12.436	0.701	0.701	0.294	0.678	0.109	1.663
Replicate Prob(F)										0.6670	0.6563	0.6563	0.0001	0.9529	0.9529	0.0001	0.5005	0.5005	0.7467	0.5118	0.8970	0.2091
Treatment F										4.735	3.667	3.667	8.173	84.737	84.737	7.885	17.120	17.120	12.379	6.247	18.111	7.266
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Weed Code	SETFA	AMBEL	AMBTR	POLPY	XANST	SETFA	AMBEL	AMBTR	POLPY	XANST	AMATA	ECHCG	TTTTT
Crop Code	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Dry Wt.
Rating Data Type	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	g/1.0 m2
Rating Unit	4-30-02	4-30-02	4-30-02	4-30-02	4-30-02	5-30-02	5-30-02	5-30-02	5-30-02	5-30-02	5-30-02	5-30-02	5-30-02
Rating Date	14 DBP	14 DBP	14 DBP	14 DBP	14 DBP	0 DBP	0 DBP	0 DBP	0 DBP	0 DBP	0 DBP	0 DBP	0 DBP
Trt-Eval Interval													

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code													
1	NONTREATED									68	3	3	2	0	316	27	6	3	6	1	0	17.66
2	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	26	OZ/A	FALL	A													
3	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	20	OZ/A	FALL	A	42	6	0	5	1	79	5	0	1	0	0	4	6.28
3	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A													
4	TOUCHDOWN	3	SL	0.75	LB AE/A	32	OZ/A	FALL	A													
5	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A													
5	HERBIMAX	100	LIQ	1.0	% V/V	1	%V/V	FALL	A													
6	SALVO	5	EC	1.88	LB AE/A	3	PT/A	FALL	A													
6	HERBIMAX	100	LIQ	1.0	% V/V	1	%V/V	FALL	A													
7	BANVEL	4	EC	0.5	LB A/A	1	PT/A	FALL	A													
8	BACKDRAFT	1.5	SL	0.94	LB A/A	5	PT/A	FALL	A													
8	SALVO	5	EC	0.75	LB AE/A	1.2	PT/A	FALL	A													
8	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	FALL	A													
8	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	FALL	A													
9	EXTREME	2.17	SL	0.814	LB A/A	3	PT/A	FALL	A													
9	SALVO	5	EC	0.75	LB AE/A	1.2	PT/A	FALL	A													
9	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	FALL	A													
9	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	FALL	A													
10	PYTHON	80	WG	0.04	LB A/A	0.8	OZ/A	FALL	A													
10	GLYPHOMAX PLUS	3	SL	0.375	LB AE/A	1	PT/A	FALL	A													
10	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A													
10	AMS	100	DRY	2.0	% W/W	2	%W/W	FALL	A													
10	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	FALL	A													
11	PYTHON	80	WG	0.05	LB A/A	1	OZ/A	FALL	A													
11	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A													
11	HERBIMAX	100	LIQ	1.0	% V/V	1	%V/V	FALL	A													
12	GLYPHOMAX PLUS	3	SL	0.56	LB AE/A	1.5	PT/A	FALL	A													
12	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A													
12	AMS	100	DRY	2.0	% W/W	2	%W/W	FALL	A													
12	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	FALL	A													
13	PYTHON	80	WG	0.05	LB A/A	1	OZ/A	FALL	A													
13	SENCOR	75	WG	0.188	LB A/A	4	OZ/A	FALL	A													
13	SALVO	5	EC	1	LB AE/A	1.6	PT/A	FALL	A													
13	HERBIMAX	100	LIQ	1.0	% V/V	1	%V/V	FALL	A													

Weed Code	SETFA	AMBEL	AMBTR	POLPY	XANST	SETFA	AMBEL	AMBTR	POLPY	XANST	AMATA	ECHCG	TTTTT
Crop Code	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Dry Wt.
Rating Data Type	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	g/1.0 m2
Rating Unit	4-30-02	4-30-02	4-30-02	4-30-02	4-30-02	5-30-02	5-30-02	5-30-02	5-30-02	5-30-02	5-30-02	5-30-02	5-30-02
Rating Date	14 DBP	14 DBP	14 DBP	14 DBP	14 DBP	0 DBP	0 DBP	0 DBP	0 DBP	0 DBP	0 DBP	0 DBP	0 DBP
Trt-Eval Interval													

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code														
14	CANOPY XL	56.3	WG			4	OZ/A	FALL	A														
14	->CLASSIC	25	WG	0.0235	LB A/A			FALL	A														
14	->AUTHORITY	75	WG	0.1175	LB A/A			FALL	A														
14	EXPRESS	75	WG	0.0094	LB A/A	0.2	OZ/A	FALL	A														
14	SALVO	5	EC	0.39	LB AE/A	10	OZ/A	FALL	A														
14	HERBIMAX	100	LIQ	1.0	QT/A	1	QT/A	FALL	A														
15	CLASSIC	25	WG	0.0275	LB A/A	1.76	OZ/A	FALL	A														
15	EXPRESS	75	WG	0.0188	LB A/A	0.4	OZ/A	FALL	A														
15	SALVO	5	EC	0.39	LB AE/A	10	OZ/A	FALL	A														
15	HERBIMAX	100	LIQ	1.0	QT/A	1	QT/A	FALL	A														
16	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	20	OZ/A	FALL	A														
16	SALVO	5	EC	0.39	LB AE/A	10	OZ/A	FALL	A														
16	CHOICE	100	LIQ	1.0	QT/A	1	QT/A	FALL	A														
17	SENCOR	75	WG	0.375	LB A/A	8	OZ/A	FALL	A														
17	SALVO	5	EC	0.39	LB AE/A	10	OZ/A	FALL	A														
17	HERBIMAX	100	LIQ	1.0	QT/A	1	QT/A	FALL	A														
18	VALOR	51	WG	0.063	LB A/A	2	OZ/A	FALL	A														
18	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A														
18	HERBIMAX	100	LIQ	1.0	PT/A	1	PT/A	FALL	A														
19	VALOR	51	WG	0.078	LB A/A	2.45	OZ/A	FALL	A	33	2	0	3	0	130	2	0	9	0	1	0	8.58	
19	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A														
19	HERBIMAX	100	LIQ	1.0	PT/A	1	PT/A	FALL	A														
20	CANOPY XL	56.3	WG			4	OZ/A	FALL	A														
20	->CLASSIC	25	WG	0.0235	LB A/A			FALL	A														
20	->AUTHORITY	75	WG	0.1175	LB A/A			FALL	A														
20	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A														
20	HERBIMAX	100	LIQ	1.0	PT/A	1	PT/A	FALL	A														
21	VALOR	51	WG	0.078	LB A/A	2.45	OZ/A	FALL	A														
21	CLASSIC	25	WG	0.025	LB A/A	1.6	OZ/A	FALL	A														
21	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A														
21	HERBIMAX	100	LIQ	1.0	PT/A	1	PT/A	FALL	A														
22	VALOR	51	WG	0.063	LB A/A	2	OZ/A	FALL	A														
22	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A														
22	PRINCEP	90	WG	1.0	LB A/A	17.8	OZ/A	FALL	A														
22	HERBIMAX	100	LIQ	1.0	PT/A	1	PT/A	FALL	A														

Weed Code	SETFA	AMBEL	AMBTR	POLPY	XANST	SETFA	AMBEL	AMBTR	POLPY	XANST	AMATA	ECHCG	TTTTT
Crop Code	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Dry Wt.
Rating Data Type	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	1.0 m2	g/1.0 m2
Rating Unit	4-30-02	4-30-02	4-30-02	4-30-02	4-30-02	5-30-02	5-30-02	5-30-02	5-30-02	5-30-02	5-30-02	5-30-02	5-30-02
Rating Date	14 DBP	14 DBP	14 DBP	14 DBP	14 DBP	0 DBP	0 DBP	0 DBP	0 DBP	0 DBP	0 DBP	0 DBP	0 DBP
Trt-Eval Interval													

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code														
23	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	A														
23	->CLASSIC	25	WG	0.0264	LB A/A			FALL	A														
23	->AUTHORITY	75	WG	0.132	LB A/A			FALL	A														
23	EXPRESS	75	WG	0.0078	LB A/A	0.166	OZ/A	FALL	A														
23	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A														
23	HERBIMAX	100	LIQ	1.0	% V/V	1	%V/V	FALL	A														
24	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	A	65	2	3	2	0	137	4	7	0	0	1	0	6.85	
24	->CLASSIC	25	WG	0.0264	LB A/A			FALL	A														
24	->AUTHORITY	75	WG	0.132	LB A/A			FALL	A														
24	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A														
24	HERBIMAX	100	LIQ	1.0	% V/V	1	%V/V	FALL	A														
25	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	A														
25	->CLASSIC	25	WG	0.0264	LB A/A			FALL	A														
25	->AUTHORITY	75	WG	0.132	LB A/A			FALL	A														
25	HERBIMAX	100	LIQ	1.0	% V/V	1	%V/V	FALL	A														
26	AUTHORITY	75	WG	0.12	LB A/A	2.56	OZ/A	FALL	A														
26	EXPRESS	75	WG	0.0047	LB A/A	0.1	OZ/A	FALL	A														
26	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A														
27	SENCOR	75	WG	0.375	LB A/A	8	OZ/A	FALL	A														
27	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A														
27	HERBIMAX	100	LIQ	1.0	% V/V	1	%V/V	FALL	A														
28	MAVERICK	75	WG	0.0314	LB A/A	0.67	OZ/A	FALL	A														
28	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	20	OZ/A	FALL	A														
28	SALVO	5	EC	0.5	LB AE/A	0.8	PT/A	FALL	A														
LSD (P=.05)										85.4	10.1	4.8	10.0	0.6	284.1	39.0	12.8	13.1	7.0	1.8	7.5	8.990	
Replicate F										1.259	0.198	1.755	0.960	1.000	0.505	0.799	2.935	1.523	1.215	0.310	1.000	0.159	
Replicate Prob(F)										0.3495	0.8253	0.2512	0.4347	0.4219	0.6269	0.4926	0.1292	0.2917	0.3606	0.7443	0.4219	0.8562	
Treatment F										0.485	0.386	1.071	0.199	4.000	1.590	1.076	1.000	1.202	2.101	1.207	1.000	4.163	
Treatment Prob(F)										0.7049	0.7676	0.4292	0.8932	0.0701	0.2874	0.4275	0.4547	0.3862	0.2016	0.3848	0.4547	0.0650	

Comparison of Fall Applied Herbicides in Soybean.

Project Code: 02-2B-W145 Location: Belleville Research Center

Trial Comments

1. Protocol: Monsanto (2, 3 and 28); Syngenta (4); DuPont (5, and 23-25); BASF (8 and 9); Dow (10-13); UAP (14-17); Valent (18-22); FMC (26); and Bayer (27).
2. Blanket application of Roundup Ultra Max + AMS at 26 oz/A + 2.0 % w/w to all plots (including the nontreated) at 3 WAP.
3. DA-A = days after FALL application. DAP = days after planting. 0 DAP = at planting. DBP = days before planting. 1.0 m² = 1.0 square meter, (2) 0.5 square meter counts per plot.
TTTTT = weeds generally.
4. On 4-30-02, 14 DBP was 14 days before planned planting date with planting delayed until 5-30-02. 0 DBP was at planting.