

Fall Applied Herbicides in Soybean.

01-WF-SWN-180

OBJECTIVE: Evaluation of weed control with herbicides applied in fall and spring with and without fall tillage.

SUMMARY: In no-till, Basis applied in the fall controlled 91 to 98% of the wild garlic, henbit, mouseear chickweed, and Carolina foxtail at planting. Canopy plus 2,4-D controlled wild garlic, henbit, mouseear chickweed, and Carolina foxtail, 89 to 100%, at planting. Canopy XL plus 2,4-D applied in the fall provided poor control of wild garlic, mouseear chickweed, and Carolina foxtail at planting, but controlled henbit, 100%. Python plus metribuzin applied in the fall provided poor control of wild garlic and Carolina foxtail, but controlled henbit and mouseear chickweed, 90% and 94%, respectively. Fall tillage controlled henbit and mouseear chickweed, 83 to 95%. All the herbicide treatments applied after fall tillage controlled henbit, mouseear chickweed, and Carolina foxtail, 100% at planting. In no-till and fall-till, Basis, Canopy plus 2,4-D, Canopy XL plus 2,4-D, and Harmony Extra applied EPP 30 controlled wild garlic, henbit, and mouseear chickweed, 93 to 100%. In no-till and fall-till, Python plus metribuzin applied EPP 30 provided poor control of wild garlic, but controlled henbit and mouseear chickweed 100%. Basis applied EPP 30 controlled 100% of the Carolina foxtail in no-till and fall-till. In no-till, winter annuals delayed the emergence of common waterhemp in the spring, but horseweed emergence was not affected. Fall-tillage reduced emergence of horseweed in the spring. Herbicides applied EPP 30 controlled common waterhemp 89 to 100% in no-till and fall-till. Roundup Ultra applied postemergence at the V3 growth stage of soybean controlled 100% of the summer annual weeds.

Grain yield ranged from 20 to 55 bu/A.

HERBICIDES / TILLAGES	WEEDS	CROP
BASIS 75 WG	chickweed, mouseear	soybean
CANOPY 75 WG	foxtail, Carolina	
CANOPY XL 56.3 WG	garlic, wild	
HARMONY EXTRA 75 WG	henbit	
PYTHON 80 WG	horseweed	
ROUNDUP ULTRA 3 SL	waterhemp, common	
SENCOR 75 WG		
WEEDONE 638 2.8 EC		
FALL TILLAGE		
NO-TILL		

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PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

Fall Applied Herbicides in Soybean.

Project Code: 01-WF-SWN-180 Location: BELLEVILLE RESEARCH CENTER

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
Trial Status: Final Initiation Date: 11-16-00

Objective:

Evaluation of weed control with herbicides applied in fall and spring with and without fall tillage.

Weed Code	Common Name	Scientific Name
1.	ALLVI garlic, wild	Allium vineale L.
2.	LAMAM henbit	Lamium amplexicaule L.
3.	CERVU chickweed, mouseear	Cerastium vulgatum L.
4.	ALOCA foxtail, Carolina	Alopecurus carolinianus Walt.
5.	ERICA horseweed	Conyza canadensis (L.) Crong.
6.	AMATA waterhemp, common	Amaranthus rudis Sauer

Crop 1:	GLXMA soybean	Variety:	B-T 369CR
Planting Method:	Seeded	Planting Date:	5-18-01
Rate:	75 lb/A	Depth:	1.0 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	30 FT	Reps:	4
Tillage Type:	See note	Study Design:	Split-plot		
Previous Crop, Year:	ZEAMX, 2000				
Field Prep./Maintenance:	N 0 LB/A, P205 0 LB/A, K20 200 LB/A				

Texture:	Silt loam	% OM:	1.5	pH:	6.5	CEC:	9
		Fert. Level:	P1: 78 LB/A, K: 186 LB/A				

APPLICATION DESCRIPTION

	A	B	C
Application Date:	11-16-00	4-18-01	5-10-01
Time of Day:	7:00	15:00	8:30
Application Method:	Spray	Spray	Spray
Application Timing:	FALL EPP	EPP30	EPP7
Applic. Placement:	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	35 F	62 F	64 F
% Relative Humidity:	90	30	68
Wind Velocity, Unit:	7 MPH	3 MPH	5 MPH
Soil Moisture:	NORMAL	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

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

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code:	ALLVI	ALLVI	ALLVI
Stage(leaves):	3-4	3-4	3-4
Height(inches):	6-16	6-16	6-16
Density:	Medium	Medium	Low
Weed 2 Code:	LAMAM	LAMAM	LAMAM
Stage(leaves):	10+	10+	10+
Height(inches):	0-2	4-6	4-6
Density:	Medium	Medium	Medium
Weed 3 Code:	CERVU	CERVU	CERVU
Stage(leaves):	10+	10+	10+
Height(inches):	0-2	3-4	3-5
Density:	Medium	Medium	Medium

Weed 4 Code:	ALOCA	ALOCA	ALOCA
Stage(leaves):	3-5	10+	10+
Height(inches):	1-3	3-5	5-10
Density:	Medium	Medium	Medium
Weed 5 Code:	ERICA	ERICA	ERICA
Stage(leaves):			10+
Height(inches):			6-10
Density:			Medium
Weed 6 Code:	AMATA	AMATA	AMATA

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan
Nozzle Size:	8004	8004	8003
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	24.2 GPA	24.2 GPA	24.2 GPA

NOTES: Tillages are no-till and fall-tillage, see treatment list.
 Fall-tillage was on 11-15-00. HARVESTED 10-25-01, 2 ROWS X 27 FT.

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Project Code: 01-WF-SWN-180 Location: BELLEVILLE RESEARCH CENTER

Blanket applications at planting and V3, see comments.

Weed Code						ALLVI		ALLVI		LAMAM		LAMAM		CERVU		CERVU						
Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	GLXMA	Yield	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control					
					bu/A	bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent					
					10-25-01	10-25-01	10-25-01	10-25-01	10-25-01	10-25-01	10-25-01	10-25-01	10-25-01	10-25-01	10-25-01	10-25-01	10-25-01					
					14 DAT	28 DAT	150 DA-A	0 DAP	14 DAT	28 DAT	150 DA-A	0 DAP	14 DAT	28 DAT	150 DA-A	0 DAP	150 DA-A					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code													
1	NO-TILL									51	0	0	92	92	0	0	98	98	0	0	91	91
1	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	FALL	EPP A													
1	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP A													
1	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	FALL	EPP A													
2	NO-TILL									47	0	0	92	92	0	0	100	100	0	0	89	89
2	CANOPY	75	WG	0.14	LB A/A	3.0	OZ/A	FALL	EPP A													
2	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	EPP A													
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP A													
3	NO-TILL									50	0	0	71	71	0	0	100	100	0	0	78	78
3	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	EPP A													
3	->AUTHORITY	75	WG	0.13	LB A/A																	
3	->CLASSIC	25	WG	0.027	LB A/A																	
3	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	EPP A													
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP A													
4	NO-TILL									55	0	0	0	0	0	0	90	90	0	0	94	94
4	PYTHON	80	WG	0.05	LB A/A	1.0	OZ/A	FALL	EPP A													
4	SENCOR	75	WG	0.188	LB A/A	4.0	OZ/A	FALL	EPP A													
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP A													
4	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	FALL	EPP A													
5	NO-TILL									51	0	0	50	50	0	0	38	38	0	0	94	94
5	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	FALL	EPP A													
5	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	EPP A													
6	NO-TILL									49	50	90					100	100				
6	ROUNDUP ULTRA	3	SL	0.38	LB AE/A	1.0	PT/A	EPP7	C													
6	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP7	C													
7	NO-TILL									25	0	0	0	0	0	0	0	0	0	0	0	0
7	NONTREATED																					
8	NO-TILL									52	100	100	100	100	100	100	100	100	100	100	100	100
8	HANDWEEDED																					
9	FALL TILLAGE									45	100	100	94	94	100	100	100	100	100	100	100	100
9	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	FALL	EPP A													
9	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP A													
9	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	FALL	EPP A													
10	FALL TILLAGE									44	100	100	91	91	100	100	100	100	100	100	100	100
10	CANOPY	75	WG	0.14	LB A/A	3.0	OZ/A	FALL	EPP A													
10	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	EPP A													
10	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP A													

Weed Code																					
Crop Code																					
Rating Data Type																					
Rating Unit																					
Rating Date																					
Trt-Eval Interval																					
		GLXMA	ALLVI	ALLVI	ALLVI	ALLVI	LAMAM	LAMAM	LAMAM	LAMAM	CERVU	CERVU	CERVU	CERVU							
		Yield	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control							
		bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent							
		10-25-01	14 DAT	28 DAT	150 DA-A	5-18-01	14 DAT	28 DAT	150 DA-A	5-18-01	14 DAT	28 DAT	150 DA-A	5-18-01							
			0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	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												
11	FALL TILLAGE									48	100	100	95	95	100	100	100	100	100	100	
11	CANOPY XL	56.3	WG			4.5	OZ/A	FALL EPP A													
11	->AUTHORITY	75	WG	0.13	LB A/A			FALL EPP A													
11	->CLASSIC	25	WG	0.027	LB A/A			FALL EPP A													
11	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL EPP A													
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL EPP A													
12	FALL TILLAGE									48	100	100	50	50	100	100	100	100	100	100	
12	PYTHON	80	WG	0.05	LB A/A	1.0	OZ/A	FALL EPP A													
12	SENCOR	75	WG	0.188	LB A/A	4.0	OZ/A	FALL EPP A													
12	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL EPP A													
12	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	FALL EPP A													
13	FALL TILLAGE									49	100	100	38	38	100	100	100	100	100	100	
13	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	FALL EPP A													
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL EPP A													
14	FALL TILLAGE									44	50	85			100	100			100	100	
14	ROUNDUP ULTRA	3	SL	0.38	LB AE/A	1.0	PT/A	EPP7	C												
14	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP7	C												
15	FALL TILLAGE									20	100	40	38	38	100	95	97	95	100	93	93
15	NONTREATED																				
16	FALL TILLAGE									43	100	100	100	100	100	100	100	100	100	100	100
16	HANDWEEDED																				
17	NO-TILL									49	80	98			98	80	100		100	65	100
17	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	EPP30	B												
17	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	EPP30	B												
17	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	EPP30	B												
18	NO-TILL									54	80	98			98	100	100		100	100	100
18	CANOPY	75	WG	0.14	LB A/A	3.0	OZ/A	EPP30	B												
18	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP30	B												
18	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	EPP30	B												
19	NO-TILL									55	80	100			100	90	100		100	90	100
19	CANOPY XL	56.3	WG			4.5	OZ/A	EPP30	B												
19	->AUTHORITY	75	WG	0.13	LB A/A			EPP30	B												
19	->CLASSIC	25	WG	0.027	LB A/A			EPP30	B												
19	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP30	B												
19	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	EPP30	B												
20	NO-TILL									51	0	23			23	90	100		100	90	100
20	PYTHON	80	WG	0.05	LB A/A	1.0	OZ/A	EPP30	B												
20	SENCOR	75	WG	0.188	LB A/A	4.0	OZ/A	EPP30	B												
20	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	EPP30	B												
20	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	EPP30	B												
21	NO-TILL									54	73	100			100	85	100		100	58	100
21	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	EPP30	B												
21	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	EPP30	B												
22	NO-TILL									49	50	85			100	100			100	100	
22	ROUNDUP ULTRA	3	SL	0.38	LB AE/A	1.0	PT/A	EPP7	C												
22	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP7	C												

Weed Code		Crop Code		Rating Data Type		Rating Unit		Rating Date		Trt-Eval Interval		ALLVI	ALLVI	ALLVI	ALLVI	LAMAM	LAMAM	LAMAM	LAMAM	CERVU	CERVU	CERVU	CERVU
GLXMA		Yield		Control		Control		Control		Control		Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control
10-25-01		bu/A		Percent		Percent		Percent		Percent		14 DAT	28 DAT	150 DA-A	0 DAP	14 DAT	28 DAT	150 DA-A	0 DAP	14 DAT	28 DAT	150 DA-A	0 DAP
Trt	Treatment	Form	Form	Rate	Rate	Prod	Prod	Grow	Appl														
No.	Name	Conc	Type		Unit	Rate	Unit	Stg	Code														
23	NO-TILL									30	0	0	0	0	0	0	0	0	0	0	0	0	0
23	NONTREATED																						
24	NO-TILL									53	100	100	100	100	100	100	100	100	100	100	100	100	100
24	HANDWEEDED																						
25	FALL TILLAGE									43	88	93		93	100	100		100	95	100			100
25	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	EPP30	B														
25	PRIME OIL COC	100	LIQ		1.0 % V/V		1.0 % V/V	EPP30	B														
25	28% UAN	100	LIQ		2.5 % V/V		2.5 % V/V	EPP30	B														
26	FALL TILLAGE									46	85	100		100	100	100		100	100	100			100
26	CANOPY	75	WG	0.14	LB A/A	3.0	OZ/A	EPP30	B														
26	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP30	B														
26	PRIME OIL COC	100	LIQ		1.0 % V/V		1.0 % V/V	EPP30	B														
27	FALL TILLAGE									43	95	95		95	100	100		100	100	100			100
27	CANOPY XL	56.3	WG			4.5	OZ/A	EPP30	B														
27	->AUTHORITY	75	WG	0.13	LB A/A			EPP30	B														
27	->CLASSIC	25	WG	0.027	LB A/A			EPP30	B														
27	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP30	B														
27	PRIME OIL COC	100	LIQ		1.0 % V/V		1.0 % V/V	EPP30	B														
28	FALL TILLAGE									46	0	0		0	100	100		100	100	100			100
28	PYTHON	80	WG	0.05	LB A/A	1.0	OZ/A	EPP30	B														
28	SENCOR	75	WG	0.188	LB A/A	4.0	OZ/A	EPP30	B														
28	PRIME OIL COC	100	LIQ		1.0 % V/V		1.0 % V/V	EPP30	B														
28	28% UAN	100	LIQ		2.5 % V/V		2.5 % V/V	EPP30	B														
29	FALL TILLAGE									47	80	100		100	100	100		100	90	100			100
29	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	EPP30	B														
29	ACTIVATOR 90	100	LIQ		0.25 % V/V		0.25 % V/V	EPP30	B														
30	FALL TILLAGE									43	50	81			100	100			100	100			
30	ROUNDUP ULTRA	3	SL	0.38	LB AE/A	1.0	PT/A	EPP7	C														
30	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP7	C														
31	FALL TILLAGE									24	0	0	65	0	88	83	94	83	88	83	94	83	
31	NONTREATED																						
32	FALL TILLAGE									45	100	100	100	100	100	100	100	100	100	100	100	100	100
32	HANDWEEDED																						
LSD (P=.05)										10.2	5.2	12.7	16.0	17.1	1.9	1.9	8.4	6.9	6.6	1.7	8.2	6.6	
Replicate F										1.866	1.663	1.761	0.837	1.839	1.601	1.601	1.975	1.758	0.976	2.067	1.049	1.219	
Replicate Prob(F)										0.1410	0.1803	0.1600	0.4799	0.1466	0.1945	0.1945	0.1294	0.1618	0.4076	0.1100	0.3789	0.3083	
Treatment F										5.939	530.576	96.594	42.826	42.800	3791.197	3895.423	129.073	130.825	300.769	4602.600	118.133	126.052	
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	

Fall Applied Herbicides in Soybean.

Project Code: 01-WF-SWN-180 Location: BELLEVILLE RESEARCH CENTER

Weed Code		ALOCA		ALOCA		ALOCA		ALOCA		AMATA		AMATA		ERICA		ERICA		GLXMA		GLXMA						
Crop Code		Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Injury	Injury	Injury	Injury					
Rating Data Type		Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent					
Rating Unit																										
Rating Date																										
Tri-Eval Interval		14 DAT	28 DAT	150 DA-A	0 DAP	0 DAP	0 DAP	28 DAP	0 DAP	28 DAP	14 DAP	28 DAP	14 DAP	28 DAP	14 DAP	28 DAP	14 DAP	28 DAP	14 DAP	28 DAP	14 DAP	28 DAP				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code																	
1	NO-TILL									0	0	99	99	13		0		0		0		0				
1	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	FALL	EPP A																	
1	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP A																	
1	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	FALL	EPP A																	
2	NO-TILL									0	0	92	92	13		100		0		0		0				
2	CANOPY	75	WG	0.14	LB A/A	3.0	OZ/A	FALL	EPP A																	
2	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	EPP A																	
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP A																	
3	NO-TILL									0	0	60	60	20		100		0		0		0				
3	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	EPP A																	
3	->AUTHORITY	75	WG	0.13	LB A/A				FALL	EPP A																
3	->CLASSIC	25	WG	0.027	LB A/A				FALL	EPP A																
3	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	EPP A																	
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP A																	
4	NO-TILL									0	0	0	0	63		70		0		0		0				
4	PYTHON	80	WG	0.05	LB A/A	1.0	OZ/A	FALL	EPP A																	
4	SENCOR	75	WG	0.188	LB A/A	4.0	OZ/A	FALL	EPP A																	
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP A																	
4	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	FALL	EPP A																	
5	NO-TILL									0	0	0	0	85		0		0		0		0				
5	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	FALL	EPP A																	
5	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	EPP A																	
6	NO-TILL									100	100				50		100		0		0		0			
6	ROUNDUP ULTRA	3	SL	0.38	LB AE/A	1.0	PT/A	EPP7	C																	
6	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP7	C																	
7	NO-TILL									0	0	0	25	100	86		0		0		0		0			
7	NONTREATED																									
8	NO-TILL									100	100	100	100	100		100		0		0		0				
8	HANDWEEDED																									
9	FALL TILLAGE									100	100	100	100	63		93		0		0		0				
9	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	FALL	EPP A																	
9	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP A																	
9	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	FALL	EPP A																	
10	FALL TILLAGE									100	100	100	100	73		100		0		0		0				
10	CANOPY	75	WG	0.14	LB A/A	3.0	OZ/A	FALL	EPP A																	
10	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	EPP A																	
10	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP A																	
11	FALL TILLAGE									100	100	100	100	90		100		0		0		0				
11	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	EPP A																	
11	->AUTHORITY	75	WG	0.13	LB A/A				FALL	EPP A																
11	->CLASSIC	25	WG	0.027	LB A/A				FALL	EPP A																
11	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	EPP A																	
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP A																	

Weed Code	ALOCA	ALOCA	ALOCA	ALOCA	AMATA	AMATA	ERICA	ERICA	GLXMA	GLXMA										
Crop Code	Control	Control	Control	Control	Control	Control	Control	Control	Injury	Injury										
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent										
Rating Unit	4-15-01	5-18-01	5-18-01	6-15-01	5-18-01	6-15-01	5-18-01	6-15-01	6-1-01	6-15-01										
Rating Date	14 DAT	28 DAT	150 DA-A	0 DAP	0 DAP	28 DAP	0 DAP	28 DAP	14 DAP	28 DAP										
Trt-Eval Interval	14 DAT	28 DAT	150 DA-A	0 DAP	0 DAP	28 DAP	0 DAP	28 DAP	14 DAP	28 DAP										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code											
12	FALL TILLAGE									100	100	100	100	41		98		0	0	
12	PYTHON	80	WG	0.05	LB A/A	1.0	OZ/A	FALL EPP	A											
12	SENCOR	75	WG	0.188	LB A/A	4.0	OZ/A	FALL EPP	A											
12	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL EPP	A											
12	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	FALL EPP	A											
13	FALL TILLAGE									100	100	100	100	80		95		0	0	
13	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	FALL EPP	A											
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL EPP	A											
14	FALL TILLAGE									100	100					65		100	0	0
14	ROUNDUP ULTRA	3	SL	0.38	LB AE/A	1.0	PT/A	EPP7	C											
14	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP7	C											
15	FALL TILLAGE									100	93	94	93	91	85	100	100	100	0	0
15	NONTREATED																			
16	FALL TILLAGE									100	100	100	100	100	100	100	100	100	0	0
16	HANDWEEDED																			
17	NO-TILL									65	100								0	0
17	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	EPP30	B											
17	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	EPP30	B											
17	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	EPP30	B											
18	NO-TILL									50	50								0	0
18	CANOPY	75	WG	0.14	LB A/A	3.0	OZ/A	EPP30	B											
18	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP30	B											
18	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	EPP30	B											
19	NO-TILL									50	50								0	0
19	CANOPY XL	56.3	WG			4.5	OZ/A	EPP30	B											
19	->AUTHORITY	75	WG	0.13	LB A/A			EPP30	B											
19	->CLASSIC	25	WG	0.027	LB A/A			EPP30	B											
19	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP30	B											
19	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	EPP30	B											
20	NO-TILL									0	0								0	0
20	PYTHON	80	WG	0.05	LB A/A	1.0	OZ/A	EPP30	B											
20	SENCOR	75	WG	0.188	LB A/A	4.0	OZ/A	EPP30	B											
20	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	EPP30	B											
20	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	EPP30	B											
21	NO-TILL									0	0								0	0
21	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	EPP30	B											
21	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	EPP30	B											
22	NO-TILL									100	100								0	0
22	ROUNDUP ULTRA	3	SL	0.38	LB AE/A	1.0	PT/A	EPP7	C											
22	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP7	C											
23	NO-TILL									0	0	0	0	98	90	0	0	0	0	0
23	NONTREATED																			
24	NO-TILL									100	100	100	100	100		100			0	0
24	HANDWEEDED																			

Weed Code		ALOCA	ALOCA	ALOCA	ALOCA	AMATA	AMATA	ERICA	ERICA			
Crop Code										GLXMA	GLXMA	
Rating Data Type		Control	Control	Control	Control	Control	Control	Control	Control	Injury	Injury	
Rating Unit		Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Rating Date				4-15-01	5-18-01	5-18-01	6-15-01	5-18-01	6-15-01	6-1-01	6-15-01	
Tri-Eval Interval		14 DAT	28 DAT	150 DA-A	0 DAP	0 DAP	28 DAP	0 DAP	28 DAP	14 DAP	28 DAP	

Tri	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl											
No.	Name	Conc	Type	Unit	Rate	Unit	Stg	Code											
25	FALL TILLAGE								100	100		100	89	100	0	0			
25	BASIS	75	WG	0.0234 LB A/A	0.5	OZ/A	EPP30	B											
25	PRIME OIL COC	100	LIQ	1.0 % V/V	1.0	% V/V	EPP30	B											
25	28% UAN	100	LIQ	2.5 % V/V	2.5	% V/V	EPP30	B											
26	FALL TILLAGE								90	88		88	100	70	100	100	0	0	
26	CANOPY	75	WG	0.14 LB A/A	3.0	OZ/A	EPP30	B											
26	WEEDONE 638	2.8	EC	0.5 LB A/A	1.43	PT/A	EPP30	B											
26	PRIME OIL COC	100	LIQ	1.0 % V/V	1.0	% V/V	EPP30	B											
27	FALL TILLAGE								88	90		90	100	95	100	100	0	0	
27	CANOPY XL	56.3	WG		4.5	OZ/A	EPP30	B											
27	->AUTHORITY	75	WG	0.13 LB A/A			EPP30	B											
27	->CLASSIC	25	WG	0.027 LB A/A			EPP30	B											
27	WEEDONE 638	2.8	EC	0.5 LB A/A	1.43	PT/A	EPP30	B											
27	PRIME OIL COC	100	LIQ	1.0 % V/V	1.0	% V/V	EPP30	B											
28	FALL TILLAGE								45	45		45	100		95		0	0	
28	PYTHON	80	WG	0.05 LB A/A	1.0	OZ/A	EPP30	B											
28	SENCOR	75	WG	0.188 LB A/A	4.0	OZ/A	EPP30	B											
28	PRIME OIL COC	100	LIQ	1.0 % V/V	1.0	% V/V	EPP30	B											
28	28% UAN	100	LIQ	2.5 % V/V	2.5	% V/V	EPP30	B											
29	FALL TILLAGE								13	0		0	84		100		0	0	
29	HARMONY EXTRA	75	WG	0.0234 LB A/A	0.5	OZ/A	EPP30	B											
29	ACTIVATOR 90	100	LIQ	0.25 % V/V	0.25	% V/V	EPP30	B											
30	FALL TILLAGE								100	100				84		100	0	0	
30	ROUNDUP ULTRA	3	SL	0.38 LB AE/A	1.0	PT/A	EPP7	C											
30	WEEDONE 638	2.8	EC	0.5 LB A/A	1.43	PT/A	EPP7	C											
31	FALL TILLAGE								0	0		90	0	90	35	98	100	0	0
31	NONTREATED																		
32	FALL TILLAGE								100	100		100	100	100		100		0	0
32	HANDWEEDED																		
LSD (P=.05)									15.1	13.3		15.5	23.4	25.8	27.3	21.4	3.2	0.0	0.0
Replicate F									1.335	0.982		0.976	0.567	2.151	0.359	1.026	0.905	0.000	0.000
Replicate Prob(F)									0.2676	0.4047		0.4113	0.6384	0.1002	0.7832	0.3855	0.4489	1.0000	1.0000
Treatment F									70.966	95.516		58.395	26.766	9.031	5.808	21.456	1250.594	0.000	0.000
Treatment Prob(F)									0.0001	0.0001		0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	1.0000

Fall Applied Herbicides in Soybean.

Project Code: 01-WF-SWN-180 Location: BELLEVILLE RESEARCH CENTER

Weed Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	SETFA	ALOCA	POAAN	STEME	CERVU	HORPU	XANST	AMATA	ERICA	ALLVI	IPOHE	LAMAM	CHEAL	AMPAL	TAROF	CYPES						
					Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants						
					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	1.0 m2	1.0 m2	1.0 m2	1.0 m2						
					5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01						
					0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	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																	
1	NO-TILL																									
1	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	FALL	EPP	A	2.5	0.3	0.0	2.8	4.8	0.3	0.0	40.5	1.5	9.8	1.8	0.0	1.8	0.0	1.8	0.0
1	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP	A																
1	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	FALL	EPP	A																
2	NO-TILL																									
2	CANOPY	75	WG	0.14	LB A/A	3.0	OZ/A	FALL	EPP	A	0.8	2.8	1.5	0.0	5.3	0.0	0.0	35.0	0.0	3.0	0.3	0.3	0.0	0.5	1.5	0.0
2	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	EPP	A																
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP	A																
3	NO-TILL																									
3	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	EPP	A	0.3	0.0	0.3	0.5	5.8	1.8	0.0	39.8	0.5	6.3	0.5	0.0	0.0	0.3	0.3	0.8
3	->AUTHORITY	75	WG	0.13	LB A/A			FALL	EPP	A																
3	->CLASSIC	25	WG	0.027	LB A/A			FALL	EPP	A																
3	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	EPP	A																
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP	A																
4	NO-TILL																									
4	PYTHON	80	WG	0.05	LB A/A	1.0	OZ/A	FALL	EPP	A	1.8	10.5	0.5	0.0	2.5	0.3	0.0	25.8	2.5	12.5	0.0	2.3	0.0	0.0	1.0	1.3
4	SENCOR	75	WG	0.188	LB A/A	4.0	OZ/A	FALL	EPP	A																
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP	A																
4	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	FALL	EPP	A																
5	NO-TILL																									
5	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	FALL	EPP	A	1.0	6.3	6.5	1.3	1.0	0.8	0.0	7.8	4.5	3.8	0.0	4.0	0.0	1.5	1.8	0.3
5	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	EPP	A																
6	NO-TILL																									
6	ROUNDUP ULTRA	3	SL	0.38	LB AE/A	1.0	PT/A	EPP7		C	0.0	8.8	0.8	0.0	2.0	5.3	0.0	0.0	3.8	2.3	0.0	3.3	0.0	0.5	2.3	0.3
6	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP7		C																
7	NO-TILL																									
7	NONTREATED																									
8	NO-TILL																									
8	HANDWEEDED																									
9	FALL TILLAGE																									
9	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	FALL	EPP	A	0.0	0.0	0.0	14.0	0.0	0.0	0.0	10.5	0.0	5.8	2.0	0.0	0.0	1.0	0.0	0.0
9	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP	A																
9	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	FALL	EPP	A																
10	FALL TILLAGE																									
10	CANOPY	75	WG	0.14	LB A/A	3.0	OZ/A	FALL	EPP	A	1.0	0.0	0.3	0.0	0.3	0.0	0.0	13.3	0.0	4.8	3.3	0.0	0.0	0.0	0.5	1.3
10	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	EPP	A																
10	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP	A																
11	FALL TILLAGE																									
11	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	EPP	A	0.0	0.0	0.0	0.0	0.3	0.0	0.3	5.0	0.0	4.0	1.0	0.0	0.0	0.3	0.3	0.0
11	->AUTHORITY	75	WG	0.13	LB A/A			FALL	EPP	A																
11	->CLASSIC	25	WG	0.027	LB A/A			FALL	EPP	A																
11	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	EPP	A																
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP	A																

Weed Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	SETFA	ALOCA	POAAN	STEME	CERVU	HORPU	XANST	AMATA	ERICA	ALLVI	IPOHE	LAMAM	CHEAL	AMPAL	TAROF	CYPES					
					Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants	Plants					
					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	1.0 m2	1.0 m2	1.0 m2	1.0 m2					
					5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01	5-18-01					
					0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	0 DAP	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																
12	FALL TILLAGE									2.8	2.3	0.0	0.0	0.0	0.0	5.5	0.0	12.3	3.3	0.3	0.0	0.0	1.5	3.8	
12	PYTHON	80	WG	0.05	LB A/A	1.0	OZ/A	FALL	EPP A																
12	SENCOR	75	WG	0.188	LB A/A	4.0	OZ/A	FALL	EPP A																
12	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	FALL	EPP A																
12	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	FALL	EPP A																
13	FALL TILLAGE									1.3	2.3	1.3	4.3	2.5	0.3	0.0	7.0	0.0	12.5	4.0	0.0	0.3	0.0	0.5	1.3
13	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	FALL	EPP A																
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	EPP A																
14	FALL TILLAGE									0.0	1.0	2.3	2.3	4.3	0.3	0.0	0.3	0.0	12.3	1.0	1.8	0.5	0.5	2.0	2.5
14	ROUNDUP ULTRA	3	SL	0.38	LB AE/A	1.0	PT/A	EPP7	C																
14	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP7	C																
15	FALL TILLAGE									0.5	2.0	0.8	7.8	1.8	1.0	0.0	4.0	0.3	8.8	0.3	1.5	2.0	0.8	0.8	6.8
15	NONTREATED																								
16	FALL TILLAGE									1.0	0.0	0.0	0.3	0.8	0.0	0.3	6.8	0.5	12.5	1.0	1.0	0.0	0.5	0.0	1.3
16	HANDWEEDED																								
17	NO-TILL									0.0	3.8	2.0	0.5	5.8	0.0	0.0	4.5	3.0	4.3	0.0	1.3	0.0	0.3	0.5	3.3
17	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	EPP30	B																
17	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	EPP30	B																
17	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	EPP30	B																
18	NO-TILL									3.5	8.3	2.3	0.5	2.3	0.8	0.3	2.0	0.0	6.0	0.3	1.5	0.0	1.5	0.8	0.0
18	CANOPY	75	WG	0.14	LB A/A	3.0	OZ/A	EPP30	B																
18	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP30	B																
18	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	EPP30	B																
19	NO-TILL									0.0	6.0	3.8	1.0	7.8	1.0	0.0	0.0	0.8	4.0	0.0	2.8	0.0	0.3	1.8	0.0
19	CANOPY XL	56.3	WG			4.5	OZ/A	EPP30	B																
19	->AUTHORITY	75	WG	0.13	LB A/A			EPP30	B																
19	->CLASSIC	25	WG	0.027	LB A/A			EPP30	B																
19	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP30	B																
19	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	EPP30	B																
20	NO-TILL									0.3	7.5	4.3	0.5	0.8	1.3	0.0	1.0	1.5	5.5	0.0	3.5	0.0	0.5	0.5	0.5
20	PYTHON	80	WG	0.05	LB A/A	1.0	OZ/A	EPP30	B																
20	SENCOR	75	WG	0.188	LB A/A	4.0	OZ/A	EPP30	B																
20	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	EPP30	B																
20	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	EPP30	B																
21	NO-TILL									0.0	9.0	4.5	0.0	6.0	1.5	0.0	1.5	10.3	3.3	0.0	2.8	0.0	0.0	0.3	0.0
21	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	EPP30	B																
21	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	EPP30	B																
22	NO-TILL									0.0	6.8	4.5	0.5	9.5	0.3	0.0	0.0	3.3	4.8	0.0	2.5	0.0	0.5	1.8	0.0
22	ROUNDUP ULTRA	3	SL	0.38	LB AE/A	1.0	PT/A	EPP7	C																
22	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP7	C																
23	NO-TILL									0.0	12.0	0.8	0.8	8.8	2.8	0.0	0.8	9.5	6.8	0.3	1.8	0.3	0.8	0.5	0.0
23	NONTREATED																								
24	NO-TILL									0.5	5.8	1.3	0.3	2.0	0.0	0.0	8.5	0.0	9.8	0.0	0.0	0.0	1.3	0.8	0.0
24	HANDWEEDED																								

Weed Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	SETFA Plants 1.0 m2 5-18-01 0 DAP	ALOCA Plants 1.0 m2 5-18-01 0 DAP	POAAN Plants 1.0 m2 5-18-01 0 DAP	STEME Plants 1.0 m2 5-18-01 0 DAP	CERUV Plants 1.0 m2 5-18-01 0 DAP	HORPU Plants 1.0 m2 5-18-01 0 DAP	XANST Plants 1.0 m2 5-18-01 0 DAP	AMATA Plants 1.0 m2 5-18-01 0 DAP	ERICA Plants 1.0 m2 5-18-01 0 DAP	ALLVI Plants 1.0 m2 5-18-01 0 DAP	IPOHE Plants 1.0 m2 5-18-01 0 DAP	LAMAM Plants 1.0 m2 5-18-01 0 DAP	CHEAL Plants 1.0 m2 5-18-01 0 DAP	AMPAL Plants 1.0 m2 5-18-01 0 DAP	TAROF Plants 1.0 m2 5-18-01 0 DAP	CYPES Plants 1.0 m2 5-18-01 0 DAP					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code																
25	FALL TILLAGE									0.0	0.3	0.8	0.3	0.8	0.0	0.3	7.3	0.0	10.3	3.5	0.0	0.0	1.3	0.3	0.5
25	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	EPP30	B																
25	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	EPP30	B																
25	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	EPP30	B																
26	FALL TILLAGE									0.3	4.3	1.0	0.0	0.3	0.0	0.0	1.5	0.0	9.0	0.8	0.0	0.0	1.8	0.0	7.0
26	CANOPY	75	WG	0.14	LB A/A	3.0	OZ/A	EPP30	B																
26	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP30	B																
26	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	EPP30	B																
27	FALL TILLAGE									0.0	1.5	0.8	0.0	3.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.5	0.0	0.3
27	CANOPY XL	56.3	WG			4.5	OZ/A	EPP30	B																
27	->AUTHORITY	75	WG	0.13	LB A/A			EPP30	B																
27	->CLASSIC	25	WG	0.027	LB A/A			EPP30	B																
27	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP30	B																
27	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	EPP30	B																
28	FALL TILLAGE									0.0	1.8	0.3	0.0	1.3	0.3	0.0	0.3	0.0	7.0	2.5	0.0	0.0	0.3	1.5	1.3
28	PYTHON	80	WG	0.05	LB A/A	1.0	OZ/A	EPP30	B																
28	SENCOR	75	WG	0.188	LB A/A	4.0	OZ/A	EPP30	B																
28	PRIME OIL COC	100	LIQ	1.0	% V/V	1.0	% V/V	EPP30	B																
28	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	EPP30	B																
29	FALL TILLAGE									1.3	1.5	1.5	0.0	0.8	0.3	0.0	4.5	0.0	5.0	3.3	0.0	0.0	1.3	0.0	1.0
29	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	EPP30	B																
29	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	EPP30	B																
30	FALL TILLAGE									0.0	2.0	0.0	1.5	2.3	0.0	0.0	0.3	0.0	9.8	0.5	3.8	0.3	0.5	1.3	0.0
30	ROUNDUP ULTRA	3	SL	0.38	LB AE/A	1.0	PT/A	EPP7	C																
30	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	EPP7	C																
31	FALL TILLAGE									2.3	2.8	3.0	2.5	1.0	0.5	0.0	6.8	0.5	15.0	0.0	2.5	1.0	0.5	0.5	2.0
31	NONTREATED																								
32	FALL TILLAGE									1.0	0.3	0.0	0.0	0.0	0.0	0.0	13.0	0.0	7.3	4.3	0.3	0.3	0.0	0.3	1.3
32	HANDWEDED																								
LSD (P=.05)										2.81	5.32	4.02	3.27	4.74	2.54	0.25	21.35	5.61	11.73	2.45	3.35	1.28	1.55	1.35	4.75
Replicate F										1.650	1.995	2.178	1.759	5.611	1.034	0.660	1.240	0.494	1.382	1.333	9.352	0.408	2.214	2.046	5.115
Replicate Prob(F)										0.1832	0.1201	0.0959	0.1604	0.0014	0.3811	0.5790	0.2998	0.6874	0.2532	0.2685	0.0001	0.7475	0.0917	0.1128	0.0026
Treatment F										0.878	3.887	1.547	5.838	2.800	1.409	0.894	2.201	1.684	1.004	2.515	1.532	1.133	0.830	2.006	1.107
Treatment Prob(F)										0.6514	0.0001	0.0571	0.0001	0.0001	0.1068	0.6290	0.0020	0.0294	0.4744	0.0004	0.0612	0.3161	0.7173	0.0056	0.3460

Fall Applied Herbicides in Soybean.

Project Code: 01-WF-SWN-180 Location: BELLEVILLE RESEARCH CENTER

Trial Comments

1. Protocol; RFK and BGY.
2. Scout plots at planting and treat with Roundup Ultra Max 0.75 lb ae/A plus AMS 2.0% if less than 85% control of moderate weed pressure.
3. Treatments with less than 85% control at planting were sprayed on 5-18-01 and were treatments 1-5, 8-13, 16, 17, 20, 21, 24, 25, 28, 29 and 32.
4. Blanket application of Roundup Ultra Max 0.75 lb ae/A plus AMS 2.0% at V3 if needed, sprayed 6-15-01.
5. DAT = days after treatment; DA-A = days after FALL EPP application; 0 DAP = at planting. 1.0 m² = 1.0 square meter, taken as (2) 0.5 square meter samples per plot.
6. 14 days after FALL EPP, EPP30 and EPP7 were on 11-30-00, 5-2-01, and 5-24-01, respectively.
7. 28 days after FALL EPP, EPP30 and EPP7 were on 12-14-00, 5-16-01, and 6-07-01, respectively.
8. Ratings on 4-15-01, 150 DA-A, were prior to EPP30 and EPP7 applications.
9. Weed control at 28 DAP was residual weed control or early preplant burndown and only for plots not sprayed at planting.