

Comparison of Fall Applied Soybean Herbicides.

01-8A

OBJECTIVE: Evaluate various soybean herbicides applied in the fall for control of winter annuals and residual control of summer annuals.

SUMMARY: No soybean injury was observed from any treatment. None of the fall applied herbicide treatments controlled mouseear chickweed, Carolina foxtail, or henbit at 28 days after treatment. However, in general, all treatments provided good control of horseweed, smallflower buttercup, and common chickweed. Little barley control at planting was good from all treatments except Sencor, Python plus Sencor, and the low rate of Roundup Ultra Max. Dandelion, wild garlic and common ragweed control tended to be greatest from treatments that included Valor plus Classic, Canopy XL or Classic plus Express. All fall applied treatments provided good control of common lambsquarters and Pennsylvania smartweed at 21 days after planting except Sencor, Sencor plus Python, and Roundup Ultra. None of the herbicide treatments controlled greater than 80% of giant foxtail or common ragweed at 21 days after planting. In general, overall weed control was greatest with treatments that included a residual herbicide like Classic or Canopy XL.

HERBICIDES	WEEDS	CROP
BACKDRAFT 1.5 SL	barley, little	soybean
CANOPY 75 WG	buttercup, smallflower	
CANOPY XL 56.3 WG	chickweed, common	
CLASSIC 25 WG	chickweed, mouseear	
EXPRESS 75 WG	dandelion	
FIRSTRATE 84 WG	foxtail, Carolina	
PYTHON 80 WG	foxtail, giant	
ROUNDUP ULTRA MAX 3.7 SL	garlic, wild	
SENCOR 75 WG	henbit	
VALOR 50 WG	horseweed	
WEEDONE 638 2.8 EC	lambsquarters, common	
	ragweed, common	
	smartweed, Pennsylvania	
	waterhemp, common	

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PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

Comparison of Fall Applied Soybean Herbicides.

Project Code: 01-8A 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: 11-17-00

Objective:

Evaluate various soybean herbicides applied in the fall for control of winter annuals and residual control of summer annuals.

Weed Code	Common Name	Scientific Name
1. TAROF	dandelion	Taraxacum officinale Weber in Wiggers
2. CERVU	chickweed, mouseear	Cerastium vulgatum L.
3. ALOCA	foxtail, Carolina	Alopecurus carolinianus Walt.
4. ALLVI	garlic, wild	Allium vineale L.
5. LAMAM	henbit	Lamium amplexicaule L.
6. HORPU	barley, little	Hordeum pusillum Nutt.
7. STEME	chickweed, common	Stellaria media (L.) Vill.
8. RANAB	buttercup, smallflower	Ranunculus abortivus L.
9. ERICA	horseweed	Conyza canadensis (L.) Crong.
10. CHEAL	lambsquarters, common	Chenopodium album L.
11. POLPY	smartweed, Pennsylvania	Polygonum pennsylvanicum L.
12. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
13. SETFA	foxtail, giant	Setaria faberi Herrm.
14. AMATA	waterhemp, common	Amaranthus rudis Sauer

Crop 1:	GLXMA soybean	Variety:	B-T 371CR
Planting Method:	Seeded	Planting Date:	5-10-01
Rate:	75 lb/A	Depth:	1.0 IN
Row Spacing:	15 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	27 FT	Reps:	3
Tillage Type:	No-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	ZEAMX, 2000				
Field Prep./Maintenance:	N 0 LB/A, P205 0 LB/A, K20 90 LB/A				

Soil Name:	Weir	% OM:	1.9	pH:	6.1	CEC:	11
Texture:	Silt loam	Fert. Level:	P1: 76 LB/A, K: 273 LB/A				

APPLICATION DESCRIPTION

	A	B
Application Date:	11-22-00	3-14-01
Time of Day:	13:00	10:00
Application Method:	SPRAY	SPRAY
Application Timing:	FALL	MARCH 15
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	44 F	60 F
% Relative Humidity:	40	40
Wind Velocity, Unit:	5 MPH	5 MPH
Soil Moisture:	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

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

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code:	TAROF	
Stage(leaves):	10+	
Height(inches):	0-3	
Density:	Medium	

Weed 2 Code:	CERVU	CERVU
Stage(leaves):	10+	10+
Height(inches):	0-2	0-1
Density:	High	High

Weed 3 Code:	ALOCA
Stage(leaves):	3-5
Height(inches):	0-3
Density:	Medium

Weed 4 Code:	ALLVI	ALLVI
Stage(leaves):	3-4	3-4
Height(inches):	3-10	4-8
Density:	Medium	Medium

Weed 5 Code:	LAMAM	LAMAM
Stage(leaves):	10+	10+
Height(inches):	0-2	0-1
Density:	Medium	Medium

Weed 8 Code:	RANAB
Stage(leaves):	3-5
Height(inches):	0-3
Density:	Low

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 Sprayer	CO2 Sprayer
Operating Pressure:	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan
Nozzle Size:	8003	8003
Boom Length, Unit:	7.33 FT	7.33 FT
Spray Volume, Unit:	20 GPA	20 GPA

NOTES: HARVESTED 10-20-01, 2 ROWS X 24 FT.

Comparison of Fall Applied Soybean Herbicides.

Project Code: 01-8A

Location: BELLEVILLE RESEARCH CENTER

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	GLXMA	TAROF	TAROF	TAROF	CERVU	CERVU	ALOCA	ALOCA	ALLVI	ALLVI	ALLVI	LAMAM	LAMAM
Yield	Control	Control	Control	Control	Control	Control	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	Percent	Percent	Percent	Percent	Percent	Percent
10-20-01	12-6-00	12-20-00	5-9-01	12-6-00	12-20-00	12-6-00	12-20-00	12-6-00	12-20-00	12-6-00	12-20-00	12-6-00	12-20-00	4-2-01	12-6-00	12-20-00		
	14 DA-A	28 DA-A	0 DAP	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	19 DA-B	14 DA-A	28 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code									
1	NONTREATED									26	0	0	0	0	0	0	0	0
2	VALOR	50	WG	0.063	LB A/A	2.0	OZ/A	FALL	A	57	0	0	85	0	0	0	83	0
2	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A									
2	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	FALL	A									
3	VALOR	50	WG	0.063	LB A/A	2.0	OZ/A	FALL	A	60	0	0	99	0	0	0	97	0
3	CLASSIC	25	WG	0.031	LB A/A	2.0	OZ/A	FALL	A									
3	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A									
3	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	FALL	A									
4	VALOR	50	WG	0.063	LB A/A	2.0	OZ/A	FALL	A	66	0	0	93	0	0	0	88	0
4	FIRSTRATE	84	WG	0.031	LB A/A	0.59	OZ/A	FALL	A									
4	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A									
4	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	FALL	A									
5	CANOPY XL	56.3	WG			4.2	OZ/A	FALL	A	61	0	0	93	0	0	0	94	0
5	->CLASSIC	25	WG	0.02467	LB A/A			FALL	A									
5	->AUTHORITY	75	WG	0.1234	LB A/A			FALL	A									
5	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A									
5	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	FALL	A									
6	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	A	63	0	0	99	0	0	0	96	0
6	->CLASSIC	25	WG	0.0264	LB A/A			FALL	A									
6	->AUTHORITY	75	WG	0.132	LB A/A			FALL	A									
6	EXPRESS	75	WG	0.0078	LB A/A	0.166	OZ/A	FALL	A									
6	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A									
6	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A									
7	CLASSIC	25	WG	0.0820	LB A/A	5.25	OZ/A	FALL	A	66	0	0	99	0	0	0	97	0
7	EXPRESS	75	WG	0.0078	LB A/A	0.166	OZ/A	FALL	A									
7	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A									
7	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A									
8	CANOPY	75	WG	0.1406	LB A/A	3	OZ/A	FALL	A	67	0	0	62	0	0	0	96	0
8	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A									
8	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A									
9	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	A	67	0	0	96	0	0	0	98	0
9	->CLASSIC	25	WG	0.0264	LB A/A			FALL	A									
9	->AUTHORITY	75	WG	0.132	LB A/A			FALL	A									
9	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A									
9	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A									
10	CANOPY XL	56.3	WG			6.83	OZ/A	FALL	A	67	0	0	96	0	0	0	95	0
10	->CLASSIC	25	WG	0.04	LB A/A			FALL	A									
10	->AUTHORITY	75	WG	0.2	LB A/A			FALL	A									
10	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A									
10	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A									

Weed Code		TAROF TAROF TAROF CERVU CERVU ALOCA ALOCA ALLVI ALLVI ALLVI LAMAM LAMAM																				
Crop Code		GLXMA	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control				
Rating Data Type		Yield	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent				
Rating Unit		bu/A	12-6-00	12-20-00	5-9-01	12-6-00	12-20-00	12-6-00	12-20-00	12-6-00	12-20-00	12-6-00	12-20-00	4-2-01	12-6-00	12-20-00	12-20-00	12-20-00				
Rating Date		10-20-01	12-6-00	12-20-00	5-9-01	12-6-00	12-20-00	12-6-00	12-20-00	12-6-00	12-20-00	12-6-00	12-20-00	4-2-01	12-6-00	12-20-00	12-20-00	12-20-00				
Trt-Eval Interval		14 DA-A	28 DA-A	0 DAP	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	19 DA-B	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code													
11	SENCOR	75	WG	0.375	LB A/A	8	OZ/A	FALL	A	59	0	0	25	0	0	0	0	0	72	0	0	
11	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A													
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A													
12	SENCOR	75	WG	0.1875	LB A/A	4	OZ/A	FALL	A	67	0	0	20	0	0	0	0	0	0	67	0	0
12	PYTHON	80	WG	0.05	LB A/A	1	OZ/A	FALL	A													
12	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A													
12	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A													
13	BACKDRAFT	1.5	SL	0.75	LB A/A	4	PT/A	FALL	A	68	0	0	87	0	0	0	0	0	0	87	0	0
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A													
13	AMS	100	DRY	14.4	% W/W	12	LB/100 GAL	FALL	A													
14	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	1.25	PT/A	FALL	A	60	0	0	38	0	0	0	0	0	0	84	0	0
14	AMS	100	DRY	2.0	% W/W	2	% W/W	FALL	A													
15	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	FALL	A	58	0	0	88	0	0	0	0	0	0	88	0	0
15	AMS	100	DRY	2.0	% W/W	2	% W/W	FALL	A													
16	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	1.25	PT/A	FALL	A	65	0	0	76	0	0	0	0	0	0	93	0	0
16	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A													
16	AMS	100	DRY	2.0	% W/W	2	% W/W	FALL	A													
17	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	1.25	PT/A	MARCH	B	58	0	0	17	0	0	0	0	0	0	48	0	0
17	AMS	100	DRY	2.0	% W/W	2	% W/W	MARCH	B													
18	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	MARCH	B	53	0	0	48	0	0	0	0	0	0	58	0	0
18	AMS	100	DRY	2.0	% W/W	2	% W/W	MARCH	B													
19	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	1.25	PT/A	MARCH	B	62	0	0	47	0	0	0	0	0	0	58	0	0
19	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	MARCH	B													
19	AMS	100	DRY	2.0	% W/W	2	% W/W	MARCH	B													
20	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A	58	0	0	45	0	0	0	0	0	0	68	0	0
20	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A													
LSD (P=.05)										11.0	0.0	0.0	32.4	0.0	0.0	0.0	0.0	0.0	0.0	18.9	0.0	0.0
Replicate F										1.536	0.000	0.000	1.974	0.000	0.000	0.000	0.000	0.000	0.000	0.618	0.000	0.000
Replicate Prob(F)										0.2283	1.0000	1.0000	0.1529	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.5441	1.0000	1.0000
Treatment F										5.564	0.000	0.000	8.379	0.000	0.000	0.000	0.000	0.000	0.000	13.153	0.000	0.000
Treatment Prob(F)										0.0001	1.0000	1.0000	0.0001	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0001	1.0000	1.0000

Comparison of Fall Applied Soybean Herbicides.

Project Code: 01-8A Location: BELLEVILLE RESEARCH CENTER

Weed Code	HORPU	HORPU	STEME	STEME	RANAB	ERICA	CHEAL	CHEAL	POLPY	POLPY	AMBEL	AMBEL	SETFA	AMATA
Crop Code	Control	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	Percent
Rating Unit	4-2-01	5-9-01	4-2-01	5-9-01	4-2-01	5-9-01	5-9-01	5-31-01	5-9-01	5-31-01	5-9-01	5-31-01	5-31-01	5-31-01
Rating Date	19 DA-B	0 DAP	19 DA-B	0 DAP	19 DA-B	0 DAP	0 DAP	21 DAP	0 DAP	21 DAP	0 DAP	21 DAP	21 DAP	21 DAP
Trt-Eval Interval														

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	HORPU	HORPU	STEME	STEME	RANAB	ERICA	CHEAL	CHEAL	POLPY	POLPY	AMBEL	AMBEL	SETFA	AMATA
1	NONTREATED									0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	VALOR	50	WG	0.063	LB A/A	2.0	OZ/A	FALL	A	99	99	99	99	98	99	98	94	99	85	90	48	33	68
	2 WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A														
	2 ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	FALL	A														
3	VALOR	50	WG	0.063	LB A/A	2.0	OZ/A	FALL	A	99	99	99	99	99	99	99	99	99	98	98	89	70	38
	3 CLASSIC	25	WG	0.031	LB A/A	2.0	OZ/A	FALL	A														
	3 WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A														
	3 ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	FALL	A														
4	VALOR	50	WG	0.063	LB A/A	2.0	OZ/A	FALL	A	99	99	96	91	99	98	99	92	99	99	96	68	20	67
	4 FIRSTRATE	84	WG	0.031	LB A/A	0.59	OZ/A	FALL	A														
	4 WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A														
	4 ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	FALL	A														
5	CANOPY XL	56.3	WG			4.2	OZ/A	FALL	A	99	99	98	94	99	99	99	99	99	99	99	96	45	65
	5 ->CLASSIC	25	WG	0.02467	LB A/A			FALL	A														
	5 ->AUTHORITY	75	WG	0.1234	LB A/A			FALL	A														
	5 WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A														
	5 ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	FALL	A														
6	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	A	97	96	99	98	99	98	99	99	99	99	99	95	53	57
	6 ->CLASSIC	25	WG	0.0264	LB A/A			FALL	A														
	6 ->AUTHORITY	75	WG	0.132	LB A/A			FALL	A														
	6 EXPRESS	75	WG	0.0078	LB A/A	0.166	OZ/A	FALL	A														
	6 WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A														
	6 PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A														
7	CLASSIC	25	WG	0.0820	LB A/A	5.25	OZ/A	FALL	A	94	92	99	99	99	95	99	99	99	96	99	99	42	20
	7 EXPRESS	75	WG	0.0078	LB A/A	0.166	OZ/A	FALL	A														
	7 WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A														
	7 PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A														
8	CANOPY	75	WG	0.1406	LB A/A	3	OZ/A	FALL	A	96	93	84	81	99	98	99	98	99	99	98	82	30	37
	8 WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A														
	8 PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A														
9	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	A	98	97	77	76	99	98	99	99	99	96	99	95	40	73
	9 ->CLASSIC	25	WG	0.0264	LB A/A			FALL	A														
	9 ->AUTHORITY	75	WG	0.132	LB A/A			FALL	A														
	9 WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A														
	9 PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A														
10	CANOPY XL	56.3	WG			6.83	OZ/A	FALL	A	93	87	80	93	99	99	99	99	99	98	98	83	47	80
	10 ->CLASSIC	25	WG	0.04	LB A/A			FALL	A														
	10 ->AUTHORITY	75	WG	0.2	LB A/A			FALL	A														
	10 WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A														
	10 PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A														
11	SENCOR	75	WG	0.375	LB A/A	8	OZ/A	FALL	A	75	43	85	85	89	99	98	73	99	73	66	43	0	47
	11 WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A														
	11 PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A														

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	HORPU	HORPU	STEME	STEME	RANAB	ERICA	CHEAL	CHEAL	POLPY	POLPY	AMBEL	AMBEL	SETFA	AMATA
						Control	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	Percent
						4-2-01	5-9-01	4-2-01	5-9-01	4-2-01	5-9-01	5-9-01	5-31-01	5-9-01	5-31-01	5-9-01	5-31-01	5-31-01	5-31-01
						19 DA-B	0 DAP	19 DA-B	0 DAP	19 DA-B	0 DAP	0 DAP	21 DAP	0 DAP	21 DAP	0 DAP	21 DAP	21 DAP	21 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code															
12	SENCOR	75	WG	0.1875	LB A/A	4	OZ/A	FALL	A	83	77	96	89	98	99	99	70	99	70	93	33	3	35	
12	PYTHON	80	WG	0.05	LB A/A	1	OZ/A	FALL	A															
12	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A															
12	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A															
13	BACKDRAFT	1.5	SL	0.75	LB A/A	4	PT/A	FALL	A	99	99	99	99	99	98	99	99	99	99	99	99	78	7	17
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A															
13	AMS	100	DRY	14.4	% W/W	12	LB/100 GAL	FALL	A															
14	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	1.25	PT/A	FALL	A	99	79	99	94	99	99	0	0	0	0	0	0	0	0	0
14	AMS	100	DRY	2.0	% W/W	2	% W/W	FALL	A															
15	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	FALL	A	99	94	99	96	99	99	33	0	33	0	0	0	0	0	0
15	AMS	100	DRY	2.0	% W/W	2	% W/W	FALL	A															
16	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	1.25	PT/A	FALL	A	99	94	97	89	99	99	0	0	25	0	32	0	0	0	0
16	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A															
16	AMS	100	DRY	2.0	% W/W	2	% W/W	FALL	A															
17	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	1.25	PT/A	MARCH	B	96	92	53	98	85	94	60	0	66	0	66	0	0	0	0
17	AMS	100	DRY	2.0	% W/W	2	% W/W	MARCH	B															
18	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	MARCH	B	99	96	66	99	63	91	80	0	33	0	50	0	0	0	0
18	AMS	100	DRY	2.0	% W/W	2	% W/W	MARCH	B															
19	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	1.25	PT/A	MARCH	B	99	99	47	98	67	96	48	0	23	0	88	0	0	0	0
19	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	MARCH	B															
19	AMS	100	DRY	2.0	% W/W	2	% W/W	MARCH	B															
20	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A	0	10	47	81	67	93	33	0	0	0	32	0	0	0	0
20	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A															
LSD (P=.05)										9.6	18.8	14.6	19.1	21.7	6.0	40.8	22.5	42.6	23.4	42.3	25.9	35.4	29.9	
Replicate F										4.074	2.690	6.070	2.775	1.274	1.181	0.182	2.721	0.969	1.942	0.599	0.314	8.050	0.442	
Replicate Prob(F)										0.0249	0.0808	0.0052	0.0750	0.2914	0.3180	0.8347	0.0786	0.3888	0.1574	0.5544	0.7325	0.0012	0.6458	
Treatment F										80.147	19.889	26.539	10.715	9.953	107.328	7.214	36.574	7.509	33.281	6.374	21.383	3.480	8.175	
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	0.0001	

Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

GLXMA
 Injury
 Percent
 5-31-01
 21 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	
1	NONTREATED									0
2	VALOR	50	WG	0.063	LB A/A	2.0	OZ/A	FALL	A	0
2	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A	
2	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	FALL	A	
3	VALOR	50	WG	0.063	LB A/A	2.0	OZ/A	FALL	A	0
3	CLASSIC	25	WG	0.031	LB A/A	2.0	OZ/A	FALL	A	
3	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A	
3	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	FALL	A	
4	VALOR	50	WG	0.063	LB A/A	2.0	OZ/A	FALL	A	0
4	FIRSTRATE	84	WG	0.031	LB A/A	0.59	OZ/A	FALL	A	
4	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A	
4	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	FALL	A	
5	CANOPY XL	56.3	WG			4.2	OZ/A	FALL	A	0
5	->CLASSIC	25	WG	0.02467	LB A/A			FALL	A	
5	->AUTHORITY	75	WG	0.1234	LB A/A			FALL	A	
5	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A	
5	ROUNDUP ULTRA MAX	3.7	SL	0.375	LB AE/A	0.8	PT/A	FALL	A	
6	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	A	0
6	->CLASSIC	25	WG	0.0264	LB A/A			FALL	A	
6	->AUTHORITY	75	WG	0.132	LB A/A			FALL	A	
6	EXPRESS	75	WG	0.0078	LB A/A	0.166	OZ/A	FALL	A	
6	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A	
6	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A	
7	CLASSIC	25	WG	0.0820	LB A/A	5.25	OZ/A	FALL	A	0
7	EXPRESS	75	WG	0.0078	LB A/A	0.166	OZ/A	FALL	A	
7	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A	
7	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A	
8	CANOPY	75	WG	0.1406	LB A/A	3	OZ/A	FALL	A	0
8	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A	
8	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A	
9	CANOPY XL	56.3	WG			4.5	OZ/A	FALL	A	0
9	->CLASSIC	25	WG	0.0264	LB A/A			FALL	A	
9	->AUTHORITY	75	WG	0.132	LB A/A			FALL	A	
9	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A	
9	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A	
10	CANOPY XL	56.3	WG			6.83	OZ/A	FALL	A	0
10	->CLASSIC	25	WG	0.04	LB A/A			FALL	A	
10	->AUTHORITY	75	WG	0.2	LB A/A			FALL	A	
10	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A	
10	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A	
11	SENCOR	75	WG	0.375	LB A/A	8	OZ/A	FALL	A	0
11	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A	
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A	

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Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	
12	SENCOR	75	WG	0.1875	LB A/A	4	OZ/A	FALL	A	0
12	PYTHON	80	WG	0.05	LB A/A	1	OZ/A	FALL	A	
12	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A	
12	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A	
13	BACKDRAFT	1.5	SL	0.75	LB A/A	4	PT/A	FALL	A	0
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FALL	A	
13	AMS	100	DRY	14.4	% W/W	12	LB/100 GAL	FALL	A	
14	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	1.25	PT/A	FALL	A	0
14	AMS	100	DRY	2.0	% W/W	2	% W/W	FALL	A	
15	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	FALL	A	0
15	AMS	100	DRY	2.0	% W/W	2	% W/W	FALL	A	
16	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	1.25	PT/A	FALL	A	0
16	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A	
16	AMS	100	DRY	2.0	% W/W	2	% W/W	FALL	A	
17	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	1.25	PT/A	MARCH	B	0
17	AMS	100	DRY	2.0	% W/W	2	% W/W	MARCH	B	
18	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	1.6	PT/A	MARCH	B	0
18	AMS	100	DRY	2.0	% W/W	2	% W/W	MARCH	B	
19	ROUNDUP ULTRA MAX	3.7	SL	0.58	LB AE/A	1.25	PT/A	MARCH	B	0
19	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	MARCH	B	
19	AMS	100	DRY	2.0	% W/W	2	% W/W	MARCH	B	
20	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	FALL	A	0
20	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	FALL	A	
LSD (P=.05)										0.0
Replicate F										0.000
Replicate Prob(F)										1.0000
Treatment F										0.000
Treatment Prob(F)										1.0000

Comparison of Fall Applied Soybean Herbicides.

Project Code: 01-8A

Location: BELLEVILLE RESEARCH CENTER

Trial Comments

1. Protocol: Valent (2-5); DuPont (6+7); Bayer (11); Monsanto (14-19).
2. Blanket application of Roundup Ultra Max at 1.6 pt/A plus AMS at 2.0%, at 3 weeks after planting, to all plots except the nontreated, applied 6-1-01.
3. DA-A = days after FALL application. DA-B = days after MARCH application and early spring evaluation. DAP = days after planting. 0 DAP = at planting.