

## Early Preplant Applications in Soybean.

01-11C-E140

**OBJECTIVE:** Evaluate the effectiveness of spring EPP applications in a Roundup Ready soybean system. Results may simulate an intended fall application that was prevented due to field conditions.

**SUMMARY:** Wild garlic control at planting was greatest from treatments that included Canopy XL, Classic plus Express, or Extreme. All herbicide treatments controlled at least 85% of horseweed, henbit, and mouseear chickweed at planting. Common ragweed control was greater with treatments applied 15 days early preplant compared to 45 days early preplant.

Soybean yield was similar in all herbicide treated plots.

### HERBICIDES

CANOPY XL 56.3 WG  
 CLASSIC 25 WG  
 EXPRESS 75 WG  
 EXTREME 2.17 SL  
 GLYPHOMAX PLUS 3 SL  
 GRAMOXONE EXTRA 2.5 SL  
 PROWL 3.3 EC  
 PYTHON 80 WG  
 ROUNDUP ORIGINAL 3 SL  
 ROUNDUP ULTRA MAX 3.7 SL  
 SENCOR 75 WG  
 SYNCHRONY STS 42 WG  
 WEEDONE 638 2.8 EC

### WEEDS

buttercup, smallflower  
 chickweed, mouseear  
 foxtail, giant  
 garlic, wild  
 henbit  
 horseweed  
 ragweed, common  
 waterhemp, common

### CROP

soybean

Bryan Young

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

## Early Preplant Applications in Soybean.

Project Code: 01-11C-E140 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: 3-15-01

**Objective:**

Evaluate the effectiveness of spring EPP applications in a Roundup Ready soybean system. Results may simulate an intended fall application that was prevented due to field conditions.

Weed Code	Common Name	Scientific Name
1.	ALLVI garlic, wild	Allium vineale L.
2.	CERVU chickweed, mouseear	Cerastium vulgatum L.
3.	RANAB buttercup, smallflower	Ranunculus abortivus L.
4.	LAMAM henbit	Lamium amplexicaule L.
5.	ERICA horseweed	Conyza canadensis (L.) Crong.
6.	AMBEL ragweed, common	Ambrosia artemisiifolia L.
7.	SETFA foxtail, giant	Setaria faberi Herrm.
8.	AMATA waterhemp, common	Amaranthus rudis Sauer

Crop 1: GLXMA soybean Variety: B-T 371CR  
 Planting Method: Seeded Planting Date: 5-11-01  
 Rate: 75 lb/A Depth: 1.0 IN  
 Row Spacing: 15 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 33 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 50 LB/A, K20 150 LB/A

Soil Name: Ebbert % OM: 1.7 pH: 6.0 CEC: 12  
 Texture: Silt loam Fert. Level: P1: 68 LB/A, K: 225 LB/A

**APPLICATION DESCRIPTION**

	A	B	C
Application Date:	3-27-01	4-26-01	5-8-01
Time of Day:	11:00	9:00	9:00
Application Method:	Spray	Spray	Spray
Application Timing:	45EPP	15EPP	3-6"W
Applic. Placement:	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	40 F	54 F	60 F
% Relative Humidity:	80	68	80
Wind Velocity, Unit:	3 MPH	5 MPH	3
Soil Moisture:	NORMAL	NORMAL	ABONOR

**CROP STAGE AT EACH APPLICATION**

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

**WEED STAGE AT EACH APPLICATION**

	A	B	C
Weed 1 Code:	ALLVI	ALLVI	ALLVI
Stage(leaves):	3-4	3-4	
Height(inches):	6-12	12-24	
Density:	Medium	Medium	
Weed 2 Code:	CERVU	CERVU	CERVU
Stage(leaves):	10+	10+	
Height(inches):	0-2	4-6	
Density:	Medium	Medium	
Weed 3 Code:	RANAB	RANAB	RANAB
Stage(leaves):	10+	10+	
Height(inches):	2-6	6-12	
Density:	Medium	Medium	

<b>Weed 4 Code:</b>	LAMAM	LAMAM	LAMAM
<b>Stage(leaves):</b>	10+	10+	
<b>Height(inches):</b>	0-2	4-6	
<b>Density:</b>	Medium	Medium	
<b>Weed 5 Code:</b>	ERICA	ERICA	ERICA
<b>Stage(leaves):</b>			10-40
<b>Height(inches):</b>			3-10
<b>Density:</b>			Low
<b>Weed 6 Code:</b>	AMBEL	AMBEL	AMBEL
<b>Stage(leaves):</b>			4-10
<b>Height(inches):</b>			3-10
<b>Density:</b>			Low
<b>Weed 7 Code:</b>	SETFA	SETFA	SETFA
<b>Stage(leaves):</b>			3-8
<b>Height(inches):</b>			1-10
<b>Density:</b>			Medium
<b>Weed 8 Code:</b>	AMATA	AMATA	AMATA
<b>Stage(leaves):</b>			4-8
<b>Height(inches):</b>			2-4
<b>Density:</b>			Low

## APPLICATION EQUIPMENT

	A	B	C
<b>Appl. Equipment:</b>	CO2 sprayer	CO2 sprayer	CO2 sprayer
<b>Operating Pressure:</b>	40 PSI	40 PSI	40 PSI
<b>Nozzle Type:</b>	Flat fan	Flat fan	Flat fan
<b>Nozzle Size:</b>	8003	8003	8003
<b>Boom Length, Unit:</b>	7.5 FT	7.5 FT	7.5 FT
<b>Spray Volume, Unit:</b>	20 GPA	20 GPA	20 GPA

NOTES: HARVESTED 10-26-01, 2 ROWS X 30 FT.

Early Preplant Applications in Soybean.

Project Code: 01-11C-E140 Location: Belleville Research Center  
 See comments for target 45EPP date and timing of postemergence application.

Weed Code		ALLVI ALLVI ALLVI CERVU CERVU CERVU RANAB RANAB RANAB LAMAM LAMAM LAMAM																	
Crop Code		GLXMA	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		
Rating Unit		bu/A	4-10-01	4-24-01	5-9-01	4-10-01	4-24-01	5-9-01	4-10-01	4-24-01	5-9-01	4-10-01	4-24-01	5-9-01	4-10-01	4-24-01	5-9-01		
Rating Date		10-26-01	14 DA-A	28 DA-A	0 DAP	14 DA-A	28 DA-A	0 DAP	14 DA-A	28 DA-A	0 DAP	14 DA-A	28 DA-A	0 DAP	14 DA-A	28 DA-A	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									8	0	0	0	0	0	0	0		
2	CANOPY XL	56.3	WG			4.5	OZ/A		45EPP A	67	80	90	87	87	99	96	90	99	99
2	->CLASSIC	25	WG	0.02644	LB A/A				45EPP A										
2	->AUTHORITY	75	WG	0.1319	LB A/A				45EPP A										
2	EXPRESS	75	WG	0.00469	LB A/A	0.1	OZ/A		45EPP A										
2	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A		45EPP A										
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V		45EPP A										
2	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A		3-6"W C										
2	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL		3-6"W C										
3	CLASSIC	25	WG	0.02738	LB A/A	1.75	OZ/A		45EPP A	67	80	90	88	80	99	98	80	99	99
3	EXPRESS	75	WG	0.00469	LB A/A	0.1	OZ/A		45EPP A										
3	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A		45EPP A										
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V		45EPP A										
3	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A		3-6"W C										
3	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL		3-6"W C										
4	CANOPY XL	56.3	WG			4.5	OZ/A		45EPP A	64	80	90	90	83	99	98	90	99	99
4	->CLASSIC	25	WG	0.02644	LB A/A				45EPP A										
4	->AUTHORITY	75	WG	0.1319	LB A/A				45EPP A										
4	EXPRESS	75	WG	0.00781	LB A/A	0.167	OZ/A		45EPP A										
4	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A		45EPP A										
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V		45EPP A										
4	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A		3-6"W C										
4	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL		3-6"W C										
5	CLASSIC	25	WG	0.02738	LB A/A	1.75	OZ/A		45EPP A	60	80	95	94	80	99	99	70	99	99
5	EXPRESS	75	WG	0.00781	LB A/A	0.167	OZ/A		45EPP A										
5	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A		45EPP A										
5	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V		45EPP A										
5	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A		3-6"W C										
5	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL		3-6"W C										
6	EXPRESS	75	WG	0.00469	LB A/A	0.1	OZ/A		45EPP A	60	80	80	50	90	99	96	90	99	99
6	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A		45EPP A										
6	GRAMOXONE EXTRA	2.5	SL	0.313	LB A/A	1	PT/A		45EPP A										
6	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V		45EPP A										
6	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A		3-6"W C										
6	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL		3-6"W C										
7	EXPRESS	75	WG	0.00938	LB A/A	0.2	OZ/A		45EPP A	71	80	85	58	90	99	96	90	99	96
7	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A		45EPP A										
7	GRAMOXONE EXTRA	2.5	SL	0.313	LB A/A	1	PT/A		45EPP A										
7	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V		45EPP A										
7	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A		3-6"W C										
7	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL		3-6"W C										

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Yield bu/A	ALLVI Control Percent	ALLVI Control Percent	ALLVI Control Percent	CERUV Control Percent	CERUV Control Percent	CERUV Control Percent	RANAB Control Percent	RANAB Control Percent	RANAB Control Percent	LAMAM Control Percent	LAMAM Control Percent	LAMAM Control Percent
Trt-Eval Interval										10-26-01	4-10-01	4-24-01	5-9-01	4-10-01	4-24-01	5-9-01	4-10-01	4-24-01	5-9-01	4-10-01	4-24-01	5-9-01
										14 DA-A	28 DA-A	0 DAP	14 DA-A	28 DA-A	0 DAP	14 DA-A	28 DA-A	0 DAP	14 DA-A	28 DA-A	0 DAP	
8	ROUNDUP ORIGINAL	3	SL	0.56	LB AE/A	1.5	PT/A	45EPP	A	58	50	80	82	50	99	99	50	99	88	50	99	99
8	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	45EPP	A													
8	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	45EPP	A													
8	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C													
8	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C													
9	ROUNDUP ORIGINAL	3	SL	0.56	LB AE/A	1.5	PT/A	45EPP	A	63	50	83	88	50	99	99	50	99	93	50	99	99
9	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	45EPP	A													
9	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	45EPP	A													
9	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	45EPP	A													
9	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C													
9	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C													
10	CANOPY XL	56.3	WG			4.5	OZ/A	15EPP	B	62			45			99			99			99
10	->CLASSIC	25	WG	0.02644	LB A/A			15EPP	B													
10	->AUTHORITY	75	WG	0.1319	LB A/A			15EPP	B													
10	ROUNDUP ORIGINAL	3	SL	0.56	LB AE/A	1.5	PT/A	15EPP	B													
10	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	15EPP	B													
10	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	15EPP	B													
10	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C													
10	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C													
11	SYNCHRONY STS	42	WG	0.00656	LB A/A	0.25	OZ/A	15EPP	B	61			32			99			88			99
11	ROUNDUP ORIGINAL	3	SL	0.56	LB AE/A	1.5	PT/A	15EPP	B													
11	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	15EPP	B													
11	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	15EPP	B													
11	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C													
11	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C													
12	SYNCHRONY STS	42	WG	0.01313	LB A/A	0.5	OZ/A	15EPP	B	58			22			99			83			99
12	ROUNDUP ORIGINAL	3	SL	0.56	LB AE/A	1.5	PT/A	15EPP	B													
12	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	15EPP	B													
12	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	15EPP	B													
12	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C													
12	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C													
13	SYNCHRONY STS	42	WG	0.01969	LB A/A	0.75	OZ/A	15EPP	B	64			18			97			85			99
13	ROUNDUP ORIGINAL	3	SL	0.375	LB AE/A	1	PT/A	15EPP	B													
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	15EPP	B													
13	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	15EPP	B													
13	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C													
13	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C													
14	ROUNDUP ORIGINAL	3	SL	0.56	LB AE/A	1.5	PT/A	15EPP	B	66			18			99			91			99
14	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	15EPP	B													
14	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	15EPP	B													
14	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C													
14	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C													
15	ROUNDUP ORIGINAL	3	SL	0.56	LB AE/A	1.5	PT/A	15EPP	B	63			30			99			96			99
15	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	15EPP	B													
15	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	15EPP	B													
15	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	15EPP	B													
15	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C													
15	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C													

Weed Code									ALLVI	ALLVI	ALLVI	CERUV	CERUV	CERUV	RANAB	RANAB	RANAB	LAMAM	LAMAM	LAMAM	
Crop Code	GLXMA								Yield	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	
Rating Data Type	bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent	10-26-01	4-10-01	4-24-01	5-9-01	4-10-01	4-24-01	5-9-01	4-10-01	4-24-01	5-9-01	4-10-01	4-24-01	5-9-01
Rating Unit		DA-A	DA-A	DAP	DA-A	DA-A	DAP	DA-A	DA-A	DA-A	DAP	DA-A	DA-A	DAP	DA-A	DA-A	DAP	DA-A	DA-A	DAP	DA-A
Rating Date																					
Tri-Eval Interval																					
Tri	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl													
No.	Name	Conc	Type	Unit	Rate	Unit	Stg	Code													
16	EXTREME	2.17	SL	0.814 LB A/A	3	PT/A	45EPP	A	61	50	83	92	80	99	99	50	99	99	80	99	99
16	ACTIVATOR 90	100	LIQ	0.125 % V/V	0.125	%V/V	45EPP	A													
16	AMS	100	DRY	2.5 LB A/A	2.5	LB/A	45EPP	A													
16	ROUNDUP ULTRA MAX	3.7	SL	0.56 LB AE/A	1.21	PT/A	3-6"W	C													
16	AMS	100	DRY	2.0 % W/W	17	LB/100 GAL	3-6"W	C													
17	EXTREME	2.17	SL	0.814 LB A/A	3	PT/A	45EPP	A	61	50	83	86	80	99	99	50	99	99	80	99	99
17	WEEDONE 638	2.8	EC	0.5 LB A/A	1.43	PT/A	45EPP	A													
17	ACTIVATOR 90	100	LIQ	0.125 % V/V	0.125	%V/V	45EPP	A													
17	AMS	100	DRY	2.5 LB A/A	2.5	LB/A	45EPP	A													
17	ROUNDUP ULTRA MAX	3.7	SL	0.56 LB AE/A	1.21	PT/A	3-6"W	C													
17	AMS	100	DRY	2.0 % W/W	17	LB/100 GAL	3-6"W	C													
18	EXTREME	2.17	SL	0.814 LB A/A	3	PT/A	45EPP	A	62	50	83	88	80	99	99	50	99	99	80	99	99
18	PROWL	3.3	EC	1.24 LB A/A	3	PT/A	45EPP	A													
18	ACTIVATOR 90	100	LIQ	0.125 % V/V	0.125	%V/V	45EPP	A													
18	AMS	100	DRY	2.5 LB A/A	2.5	LB/A	45EPP	A													
18	ROUNDUP ULTRA MAX	3.7	SL	0.56 LB AE/A	1.21	PT/A	3-6"W	C													
18	AMS	100	DRY	2.0 % W/W	17	LB/100 GAL	3-6"W	C													
19	EXTREME	2.17	SL	0.814 LB A/A	3	PT/A	15EPP	B	64			38		99				93			99
19	ACTIVATOR 90	100	LIQ	0.125 % V/V	0.125	%V/V	15EPP	B													
19	AMS	100	DRY	2.5 LB A/A	2.5	LB/A	15EPP	B													
19	ROUNDUP ULTRA MAX	3.7	SL	0.56 LB AE/A	1.21	PT/A	3-6"W	C													
19	AMS	100	DRY	2.0 % W/W	17	LB/100 GAL	3-6"W	C													
20	EXTREME	2.17	SL	0.814 LB A/A	3	PT/A	15EPP	B	68			25		99				99			99
20	WEEDONE 638	2.8	EC	0.5 LB A/A	1.43	PT/A	15EPP	B													
20	ACTIVATOR 90	100	LIQ	0.125 % V/V	0.125	%V/V	15EPP	B													
20	AMS	100	DRY	2.5 LB A/A	2.5	LB/A	15EPP	B													
20	ROUNDUP ULTRA MAX	3.7	SL	0.56 LB AE/A	1.21	PT/A	3-6"W	C													
20	AMS	100	DRY	2.0 % W/W	17	LB/100 GAL	3-6"W	C													
21	EXTREME	2.17	SL	0.814 LB A/A	3	PT/A	15EPP	B	65			20		99				93			99
21	PROWL	3.3	EC	1.24 LB A/A	3	PT/A	15EPP	B													
21	ACTIVATOR 90	100	LIQ	0.125 % V/V	0.125	%V/V	15EPP	B													
21	AMS	100	DRY	2.5 LB A/A	2.5	LB/A	15EPP	B													
21	ROUNDUP ULTRA MAX	3.7	SL	0.56 LB AE/A	1.21	PT/A	3-6"W	C													
21	AMS	100	DRY	2.0 % W/W	17	LB/100 GAL	3-6"W	C													
22	PYTHON	80	WG	0.05 LB A/A	1	OZ/A	15EPP	B	65			30		99				99			99
22	SENCOR	75	WG	0.188 LB A/A	4	OZ/A	15EPP	B													
22	WEEDONE 638	2.8	EC	0.475 LB A/A	1.36	PT/A	15EPP	B													
22	PRIME OIL COC	100	LIQ	1.0 % V/V	1	%V/V	15EPP	B													
22	GLYPHOMAX PLUS	3	SL	0.75 LB AE/A	2	PT/A	3-6"W	C													
22	AMS	100	DRY	2.0 % W/W	17	LB/100 GAL	3-6"W	C													
23	PYTHON	80	WG	0.05 LB A/A	1	OZ/A	15EPP	B	66			32		99				99			99
23	GLYPHOMAX PLUS	3	SL	0.75 LB AE/A	2	PT/A	15EPP	B													
23	WEEDONE 638	2.8	EC	0.475 LB A/A	1.36	PT/A	15EPP	B													
23	AMS	100	DRY	2.0 % W/W	17	LB/100 GAL	15EPP	B													
23	GLYPHOMAX PLUS	3	SL	0.75 LB AE/A	2	PT/A	3-6"W	C													
23	AMS	100	DRY	2.0 % W/W	17	LB/100 GAL	3-6"W	C													
LSD (P=.05)									12.5	0.0	5.7	22.5	4.2	0.0	3.6	8.5	0.0	9.0	2.8	0.0	1.8

Weed Code	ALLVI	ALLVI	ALLVI	CERVU	CERVU	CERVU	RANAB	RANAB	RANAB	LAMAM	LAMAM	LAMAM
Crop Code	GLXMA											
Rating Data Type	Yield	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit	bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	10-26-01	4-10-01	4-24-01	5-9-01	4-10-01	4-24-01	5-9-01	4-10-01	4-24-01	5-9-01	4-10-01	4-24-01
Trt-Eval Interval	14 DA-A	28 DA-A	0 DAP	14 DA-A	28 DA-A	0 DAP	14 DA-A	28 DA-A	0 DAP	14 DA-A	28 DA-A	0 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	2.911	0.000	2.659	6.057	0.000	0.000	0.443	1.000	0.000	1.474	1.000	0.000	1.000	
	Replicate F									0.0649	1.0000	0.0924	0.0047	1.0000	1.0000	0.6451	0.3840	1.0000	0.2400	0.3840	1.0000	0.3761	
	Replicate Prob(F)									7.490	0.000	168.174	15.967	335.125	0.000	263.017	88.000	0.000	42.320	793.818	0.000	1087.000	
	Treatment F									0.0001	1.0000	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	1.0000	0.0001	0.0001	1.0000	0.0001	
	Treatment Prob(F)																						

Early Preplant Applications in Soybean.

Project Code: 01-11C-E140 Location: Belleville Research Center

Weed Code				ERICA	ERICA	ERICA	AMBEL	AMBEL	AMBEL	AMATA	AMATA	SETFA	SETFA	GLXMA		GLXMA						
Crop Code				Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Injury	Injury						
Rating Data Type				Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent						
Rating Unit				5-9-01	6-8-01	7-6-01	5-9-01	6-8-01	7-6-01	6-8-01	7-6-01	6-8-01	7-6-01	6-8-01	7-6-01	6-8-01						
Rating Date				0 DAP	0 DA-C	28 DA-C	0 DAP	0 DA-C	28 DA-C	0 DA-C	28 DA-C	0 DA-C	28 DA-C	0 DA-C	28 DA-C	0 DA-C						
Trt-Eval Interval																						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code													
1	NONTREATED									0	0	0	0	0	0	0	0					
2	CANOPY XL	56.3	WG			4.5	OZ/A		45EPP A	98	90	100	99	88	100	77	100	93	98	0	0	
	->CLASSIC	25	WG	0.02644	LB A/A				45EPP A													
	->AUTHORITY	75	WG	0.1319	LB A/A				45EPP A													
	EXPRESS	75	WG	0.00469	LB A/A	0.1	OZ/A		45EPP A													
	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A		45EPP A													
	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V		45EPP A													
	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A		3-6"W C													
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL		3-6"W C													
3	CLASSIC	25	WG	0.02738	LB A/A	1.75	OZ/A		45EPP A	97	87	100	95	90	97	30	100	27	98	0	0	
	EXPRESS	75	WG	0.00469	LB A/A	0.1	OZ/A		45EPP A													
	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A		45EPP A													
	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V		45EPP A													
	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A		3-6"W C													
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL		3-6"W C													
4	CANOPY XL	56.3	WG			4.5	OZ/A		45EPP A	99	87	100	98	88	100	90	100	90	98	0	0	
	->CLASSIC	25	WG	0.02644	LB A/A				45EPP A													
	->AUTHORITY	75	WG	0.1319	LB A/A				45EPP A													
	EXPRESS	75	WG	0.00781	LB A/A	0.167	OZ/A		45EPP A													
	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A		45EPP A													
	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V		45EPP A													
	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A		3-6"W C													
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL		3-6"W C													
5	CLASSIC	25	WG	0.02738	LB A/A	1.75	OZ/A		45EPP A	99	90	100	99	88	100	43	98	87	99	0	0	
	EXPRESS	75	WG	0.00781	LB A/A	0.167	OZ/A		45EPP A													
	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A		45EPP A													
	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V		45EPP A													
	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A		3-6"W C													
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL		3-6"W C													
6	EXPRESS	75	WG	0.00469	LB A/A	0.1	OZ/A		45EPP A	99	90	100	80	88	96	80	100	20	98	0	0	
	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A		45EPP A													
	GRAMOXONE EXTRA	2.5	SL	0.313	LB A/A	1	PT/A		45EPP A													
	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V		45EPP A													
	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A		3-6"W C													
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL		3-6"W C													
7	EXPRESS	75	WG	0.00938	LB A/A	0.2	OZ/A		45EPP A	95	88	100	86	0	95	70	100	0	97	0	0	
	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A		45EPP A													
	GRAMOXONE EXTRA	2.5	SL	0.313	LB A/A	1	PT/A		45EPP A													
	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V		45EPP A													
	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A		3-6"W C													
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL		3-6"W C													
8	ROUNDUP ORIGINAL	3	SL	0.56	LB AE/A	1.5	PT/A		45EPP A	93	83	100	88	0	93	0	80	0	99	0	0	
	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V		45EPP A													
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL		45EPP A													
	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A		3-6"W C													
	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL		3-6"W C													



Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	ERICA	ERICA	ERICA	AMBEL	AMBEL	AMBEL	AMATA	AMATA	SETFA	SETFA	GLXMA	GLXMA				
						Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Injury	Injury				
						5-9-01	6-8-01	7-6-01	5-9-01	6-8-01	7-6-01	6-8-01	7-6-01	6-8-01	7-6-01	6-8-01	7-6-01				
						0 DAP	0 DA-C	28 DA-C	0 DAP	0 DA-C	28 DA-C	0 DA-C	28 DA-C	0 DA-C	28 DA-C	0 DA-C	28 DA-C				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code												
9	ROUNDUP ORIGINAL	3	SL	0.56	LB AE/A	1.5	PT/A	45EPP	A	99	90	100	83	0	87	0	100	0	97	0	0
9	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	45EPP	A												
9	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	45EPP	A												
9	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	45EPP	A												
9	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C												
9	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C												
10	CANOPY XL	56.3	WG			4.5	OZ/A	15EPP	B	91	100	100	99	100	100	99	100	99	98	0	0
10	->CLASSIC	25	WG	0.02644	LB A/A			15EPP	B												
10	->AUTHORITY	75	WG	0.1319	LB A/A			15EPP	B												
10	ROUNDUP ORIGINAL	3	SL	0.56	LB AE/A	1.5	PT/A	15EPP	B												
10	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	15EPP	B												
10	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	15EPP	B												
10	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C												
10	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C												
11	SYNCHRONY STS	42	WG	0.00656	LB A/A	0.25	OZ/A	15EPP	B	93	100	100	99	100	100	98	93	97	98	0	0
11	ROUNDUP ORIGINAL	3	SL	0.56	LB AE/A	1.5	PT/A	15EPP	B												
11	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	15EPP	B												
11	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	15EPP	B												
11	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C												
11	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C												
12	SYNCHRONY STS	42	WG	0.01313	LB A/A	0.5	OZ/A	15EPP	B	88	100	100	99	100	100	98	98	98	97	0	0
12	ROUNDUP ORIGINAL	3	SL	0.56	LB AE/A	1.5	PT/A	15EPP	B												
12	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	15EPP	B												
12	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	15EPP	B												
12	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C												
12	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C												
13	SYNCHRONY STS	42	WG	0.01969	LB A/A	0.75	OZ/A	15EPP	B	93	100	100	99	100	100	95	83	98	98	0	0
13	ROUNDUP ORIGINAL	3	SL	0.375	LB AE/A	1	PT/A	15EPP	B												
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	15EPP	B												
13	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	15EPP	B												
13	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C												
13	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C												
14	ROUNDUP ORIGINAL	3	SL	0.56	LB AE/A	1.5	PT/A	15EPP	B	87	100	100	99	100	100	53	100	75	99	0	0
14	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	15EPP	B												
14	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	15EPP	B												
14	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C												
14	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C												
15	ROUNDUP ORIGINAL	3	SL	0.56	LB AE/A	1.5	PT/A	15EPP	B	95	100	100	99	97	98	90	95	77	99	0	0
15	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	15EPP	B												
15	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	15EPP	B												
15	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	15EPP	B												
15	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C												
15	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C												
16	EXTREME	2.17	SL	0.814	LB A/A	3	PT/A	45EPP	A	93	93	97	89	60	95	63	100	30	98	0	0
16	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	45EPP	A												
16	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	45EPP	A												
16	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C												
16	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C												

Weed Code		ERICA ERICA ERICA AMBEL AMBEL AMBEL AMATA AMATA SETFA SETFA GLXMA GLXMA																			
Crop Code		Control Control Control Control Control Control Control Control Control Control Control GLXMA GLXMA																			
Rating Data Type		Percent Percent Percent Percent Percent Percent Percent Percent Percent Percent Percent Injury Injury																			
Rating Unit		5-9-01 6-8-01 7-6-01 5-9-01 6-8-01 7-6-01 6-8-01 7-6-01 6-8-01 7-6-01 6-8-01 7-6-01																			
Rating Date		0 DAP 0 DA-C 28 DA-C 0 DAP 0 DA-C 28 DA-C 0 DA-C 28 DA-C 0 DA-C 28 DA-C 0 DA-C 28 DA-C 0 DA-C 28 DA-C																			
Trt-Eval Interval																					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code												
17	EXTREME	2.17	SL	0.814	LB A/A	3	PT/A	45EPP	A	99	100	100	95	80	92	33	100	90	99	0	0
17	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	45EPP	A												
17	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	45EPP	A												
17	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	45EPP	A												
17	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C												
17	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C												
18	EXTREME	2.17	SL	0.814	LB A/A	3	PT/A	45EPP	A	96	85	100	93	70	89	50	100	98	99	0	0
18	PROWL	3.3	EC	1.24	LB A/A	3	PT/A	45EPP	A												
18	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	45EPP	A												
18	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	45EPP	A												
18	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C												
18	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C												
19	EXTREME	2.17	SL	0.814	LB A/A	3	PT/A	15EPP	B	99	100	100	99	100	100	96	98	98	99	0	0
19	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	15EPP	B												
19	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	15EPP	B												
19	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C												
19	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C												
20	EXTREME	2.17	SL	0.814	LB A/A	3	PT/A	15EPP	B	93	100	100	99	100	100	93	92	100	98	0	0
20	WEEDONE 638	2.8	EC	0.5	LB A/A	1.43	PT/A	15EPP	B												
20	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	15EPP	B												
20	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	15EPP	B												
20	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C												
20	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C												
21	EXTREME	2.17	SL	0.814	LB A/A	3	PT/A	15EPP	B	92	100	100	99	100	100	98	94	100	100	0	0
21	PROWL	3.3	EC	1.24	LB A/A	3	PT/A	15EPP	B												
21	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	15EPP	B												
21	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	15EPP	B												
21	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	1.21	PT/A	3-6"W	C												
21	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C												
22	PYTHON	80	WG	0.05	LB A/A	1	OZ/A	15EPP	B	85	98	100	99	100	100	98	100	50	97	0	0
22	SENCOR	75	WG	0.188	LB A/A	4	OZ/A	15EPP	B												
22	WEEDONE 638	2.8	EC	0.475	LB A/A	1.36	PT/A	15EPP	B												
22	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	15EPP	B												
22	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	2	PT/A	3-6"W	C												
22	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C												
23	PYTHON	80	WG	0.05	LB A/A	1	OZ/A	15EPP	B	98	100	100	99	100	100	96	97	63	98	0	0
23	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	2	PT/A	15EPP	B												
23	WEEDONE 638	2.8	EC	0.475	LB A/A	1.36	PT/A	15EPP	B												
23	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	15EPP	B												
23	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	2	PT/A	3-6"W	C												
23	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	3-6"W	C												
LSD (P=.05)										8.0	5.6	2.0	11.7	8.9	4.3	31.9	8.8	30.2	1.6	0.0	0.0
Replicate F										0.975	1.569	1.000	1.664	1.052	0.410	1.527	2.208	0.782	1.730	0.000	0.000
Replicate Prob(F)										0.3850	0.2197	0.3761	0.2011	0.3577	0.6660	0.2284	0.1220	0.4636	0.1891	1.0000	1.0000
Treatment F										51.914	112.858	898.273	25.671	143.360	189.092	9.637	46.295	13.627	1378.654	0.000	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	1.0000

Early Preplant Applications in Soybean.

Project Code: 01-11C-E140      Location: Belleville Research Center

Trial Comments

1. Protocol: DuPont USA-01-102 (trts 1-15), BASF (trts 16-21), DOW (trts 22+23).
2. DA-A = days after 45EPP application. DAP = days after planting. 0 DAP = at planting. DA-C = days after 3-6"W application. 0 DA-C = at postemergence application.