

Burndown in No-Till Soybean.

Project Code: 04-6B-W90 Location: Belleville Research Center
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
Trial Status: Final Updated: 8-16-04

Weed Code	Common Name	Scientific Name
1. SENGL	groundsel, cressleaf	Senecio glabellus Poir.
2. ERICA	horseweed	Conyza canadensis (L.) Crong.
3. CAPBP	shepherdspurse	Capsella bursa-pastoris (L.) Medicus
4. CERVU	chickweed, mouseear	Cerastium vulgatum L.
5. ALOCA	foxtail, Carolina	Alopecurus carolinianus Walt.
6. VERPG	speedwell, purslane	Veronica peregrina L.
7. CARPA	bittercross, smallflowered	Cardamine parviflora L.

Crop 1: GLXMA soybean Variety: Asgrow 4403 RR
Planting Method: Seeded Planting Date: 5-12-04
Rate: 75 lb/A Depth: 1.0 IN
Row Spacing: 15 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 30 FT Reps: 3
Tillage Type: No-Till Study Design: Randomized complete block
Previous Crop, Year: GLXMA, 2003

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 100 LB/A

Soil Name: Stoy % OM: 1.6 pH: 6.4 CEC: 8
Texture: Silt loam Fert. Level: P1: 81 LB/A, K: 414 LB/A

APPLICATION DESCRIPTION

A
Application Date: 5-5-04
Time of Day: 14:00
Application Method: Spray
Application Timing: 7EPP
Applic. Placement: BROFOL
Air Temp., Unit: 77 F
% Relative Humidity: 45
Wind Velocity, Unit: 3 MPH
Soil Moisture: ABONOR

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: SENGL
Stage(leaves): 10+
Height(inches): 12-36
Density: Medium
Weed 2 Code: ERICA
Stage(leaves): 10+
Height(inches): 4-6
Density: Medium
Weed 3 Code: CAPBP
Stage(leaves): 10+
Height(inches): 6-18
Density: Medium
Weed 4 Code: CERVU
Stage(leaves): 10+
Height(inches): 4-6
Density: Medium

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Weed Code		Crop Code		Rating Data Type		Rating Unit		Rating Date		Trt-Eval Interval		SENGL	SENGL	SENGL	ERICA	ERICA	ERICA	CAPBP	CAPBP	CAPBP	CERVU	CERVU	CERVU
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent
										5-12-04	5-19-04	6-2-04	5-12-04	5-19-04	6-2-04	5-12-04	5-19-04	6-2-04	5-12-04	5-19-04	6-2-04	5-12-04	5-19-04
										7 DA-A	14 DA-A	28 DA-A	7 DA-A	14 DA-A	28 DA-A	7 DA-A	14 DA-A	28 DA-A	7 DA-A	14 DA-A	28 DA-A	7 DA-A	14 DA-A
1	NONTREATED									0	50	99	0	0	0	0	90	99	0	90	99		
2	DISTINCT	70	WG	0.0875	LB A/A	2	OZ/A	7EPP	A	50	80	99	50	93	99	50	98	99	90	98	99		
2	2,4-D LV4	3.8	EC	0.475	LB A/A	1	PT/A	7EPP	A														
2	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	7EPP	A														
2	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	7EPP	A														
3	DISTINCT	70	WG	0.0875	LB A/A	2	OZ/A	7EPP	A	50	80	99	50	90	99	50	98	99	50	98	99		
3	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	7EPP	A														
3	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	7EPP	A														
4	2,4-D LV4	3.8	EC	0.475	LB A/A	1	PT/A	7EPP	A	50	80	99	50	90	99	50	98	99	50	98	99		
4	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	7EPP	A														
4	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	7EPP	A														
5	BUCCANEER	3	SL	0.75	LB AE/A	1	QT/A	7EPP	A	50	90	99	70	98	99	90	98	99	90	98	99		
5	DISTINCT	70	WG	0.0875	LB A/A	2	OZ/A	7EPP	A														
5	2,4-D LV4	3.8	EC	0.475	LB A/A	1	PT/A	7EPP	A														
5	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	7EPP	A														
5	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	7EPP	A														
6	SALVAN	5	EC	0.5	LB AE/A	0.8	PT/A	7EPP	A	50	80	99	50	90	99	50	98	99	50	98	99		
7	SALVAN	5	EC	0.5	LB AE/A	0.8	PT/A	7EPP	A	50	80	99	50	90	99	50	98	99	50	98	99		
7	PREMIER 90	100	LIQ	0.25	% V/V	0.25	GAL/100 GAL	7EPP	A														
8	SALVAN	5	EC	0.5	LB AE/A	0.8	PT/A	7EPP	A	50	80	99	50	90	99	50	98	99	50	98	99		
8	BASE	100	LIQ	1.0	% V/V	1	GAL/100 GAL	7EPP	A														
9	BUCCANEER	3	SL	0.75	LB AE/A	1	QT/A	7EPP	A	50	98	99	70	98	99	90	98	99	90	98	99		
10	BUCCANEER	3	SL	0.75	LB AE/A	1	QT/A	7EPP	A	80	98	99	80	98	99	99	98	99	99	98	99		
10	GARDIAN	100	LIQ	0.5	% V/V	0.5	GAL/100GAL	7EPP	A														
11	BUCCANEER	3	SL	0.75	LB AE/A	1	QT/A	7EPP	A	50	98	99	80	97	99	80	98	99	90	98	99		
11	PRO-ONE XL	100	DRY	1.2	% W/W	10	LB/100 GAL	7EPP	A														
12	BUCCANEER PLUS	3	SL	0.75	LB AE/A	1	QT/A	7EPP	A	50	98	99	90	98	99	90	98	99	90	98	99		
13	BUCCANEER PLUS	3	SL	0.75	LB AE/A	1	QT/A	7EPP	A	50	98	99	90	98	99	90	98	99	90	98	99		
13	PREMIER 90	100	LIQ	0.25	% V/V	0.25	GAL/100 GAL	7EPP	A														
14	BUCCANEER PLUS	3	SL	0.75	LB AE/A	1	QT/A	7EPP	A	50	98	99	90	98	99	90	98	99	90	98	99		
14	PRO-ONE XL	100	DRY	1.2	% W/W	10	LB/100 GAL	7EPP	A														
15	BUCCANEER PLUS	3	SL	0.75	LB AE/A	1	QT/A	7EPP	A	50	98	99	90	98	99	50	98	99	90	98	99		
15	SALVAN	5	EC	0.5	LB AE/A	0.8	PT/A	7EPP	A														
15	GARDIAN	100	LIQ	0.5	% V/V	0.5	GAL/100GAL	7EPP	A														
16	BUCCANEER	3	SL	0.75	LB AE/A	1	QT/A	7EPP	A	50	98	99	90	98	99	90	98	99	90	98	99		
16	DRI GARD	100	DRY	1.08	% W/W	9.0	LB/100 GAL	7EPP	A														

Southern Illinois University

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Weed Code	SENGL	SENGL	SENGL	ERICA	ERICA	ERICA	CAPBP	CAPBP	CAPBP	CERVU	CERVU	CERVU
Crop Code												
Rating Data Type	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
Rating Date	5-12-04	5-19-04	6-2-04	5-12-04	5-19-04	6-2-04	5-12-04	5-19-04	6-2-04	5-12-04	5-19-04	6-2-04
Trt-Eval Interval	7 DA-A	14 DA-A	28 DA-A	7 DA-A	14 DA-A	28 DA-A	7 DA-A	14 DA-A	28 DA-A	7 DA-A	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	SENGL 7 DA-A	SENGL 14 DA-A	SENGL 28 DA-A	ERICA 7 DA-A	ERICA 14 DA-A	ERICA 28 DA-A	CAPBP 7 DA-A	CAPBP 14 DA-A	CAPBP 28 DA-A	CERVU 7 DA-A	CERVU 14 DA-A	CERVU 28 DA-A
17	GRAMOXONE MAX	3	SL	0.75	LB A/A	2.0	PT/A	7EPP	A	99	98	99	50	80	83	99	98	99	99	98	99
17	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	7EPP	A												
18	GRAMOXONE MAX	3	SL	1.0	LB A/A	2.7	PT/A	7EPP	A	99	98	99	50	80	83	99	98	99	99	98	99
18	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	7EPP	A												
LSD (P=.05)										0.0	0.0	0.0	9.3	1.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F										0.000	0.000	0.000	2.125	1.355	0.486	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000	0.1350	0.2715	0.6195	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000	54.156	1170.709	432.687	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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								ALOCA	ALOCA	ALOCA	VERPG	VERPG	VERPG	CARPA	CARPA	CARPA	GLXMA		
								Control	Control	Control	Control	Control	Control	Control	Control	Control	Injury		
								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent		
								5-12-04	5-19-04	6-2-04	5-12-04	5-19-04	6-2-04	5-12-04	5-19-04	6-2-04	6-2-04		
								7 DA-A	14 DA-A	28 DA-A	7 DA-A	14 DA-A	28 DA-A	7 DA-A	14 DA-A	28 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									0	80	99	90	99	99	0	90	99	0
2	DISTINCT	70	WG	0.0875	LB A/A	2	OZ/A		7EPP A	0	80	99	87	99	99	50	98	99	0
2	2,4-D LV4	3.8	EC	0.475	LB A/A	1	PT/A		7EPP A										
2	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V		7EPP A										
2	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V		7EPP A										
3	DISTINCT	70	WG	0.0875	LB A/A	2	OZ/A		7EPP A	0	80	99	90	99	99	50	98	99	0
3	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V		7EPP A										
3	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V		7EPP A										
4	2,4-D LV4	3.8	EC	0.475	LB A/A	1	PT/A		7EPP A	0	80	99	90	99	99	50	98	99	0
4	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V		7EPP A										
4	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V		7EPP A										
5	BUCCANEER	3	SL	0.75	LB AE/A	1	QT/A		7EPP A	90	98	99	90	99	99	90	98	99	0
5	DISTINCT	70	WG	0.0875	LB A/A	2	OZ/A		7EPP A										
5	2,4-D LV4	3.8	EC	0.475	LB A/A	1	PT/A		7EPP A										
5	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V		7EPP A										
5	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V		7EPP A										
6	SALVAN	5	EC	0.5	LB AE/A	0.8	PT/A		7EPP A	0	80	99	90	99	99	50	98	99	0
7	SALVAN	5	EC	0.5	LB AE/A	0.8	PT/A		7EPP A	0	80	99	90	99	99	50	98	99	0
7	PREMIER 90	100	LIQ	0.25	% V/V	0.25	GAL/100 GAL		7EPP A										
8	SALVAN	5	EC	0.5	LB AE/A	0.8	PT/A		7EPP A	0	80	99	90	99	99	50	98	99	0
8	BASE	100	LIQ	1.0	% V/V	1	GAL/100 GAL		7EPP A										
9	BUCCANEER	3	SL	0.75	LB AE/A	1	QT/A		7EPP A	90	98	99	90	99	99	90	98	99	0
10	BUCCANEER	3	SL	0.75	LB AE/A	1	QT/A		7EPP A	99	98	99	99	99	99	90	98	99	0
10	GARDIAN	100	LIQ	0.5	% V/V	0.5	GAL/100GAL		7EPP A										
11	BUCCANEER	3	SL	0.75	LB AE/A	1	QT/A		7EPP A	99	98	99	99	99	99	90	98	99	0
11	PRO-ONE XL	100	DRY	1.2	% W/W	10	LB/100 GAL		7EPP A										
12	BUCCANEER PLUS	3	SL	0.75	LB AE/A	1	QT/A		7EPP A	99	98	99	99	99	99	90	98	99	0
13	BUCCANEER PLUS	3	SL	0.75	LB AE/A	1	QT/A		7EPP A	99	98	99	99	99	99	90	98	99	0
13	PREMIER 90	100	LIQ	0.25	% V/V	0.25	GAL/100 GAL		7EPP A										
14	BUCCANEER PLUS	3	SL	0.75	LB AE/A	1	QT/A		7EPP A	99	98	99	99	99	99	90	98	99	0
14	PRO-ONE XL	100	DRY	1.2	% W/W	10	LB/100 GAL		7EPP A										
15	BUCCANEER PLUS	3	SL	0.75	LB AE/A	1	QT/A		7EPP A	99	98	99	99	99	99	90	98	99	0
15	SALVAN	5	EC	0.5	LB AE/A	0.8	PT/A		7EPP A										
15	GARDIAN	100	LIQ	0.5	% V/V	0.5	GAL/100GAL		7EPP A										
16	BUCCANEER	3	SL	0.75	LB AE/A	1	QT/A		7EPP A	99	98	99	99	99	99	90	98	99	0
16	DRI GARD	100	DRY	1.08	% W/W	9.0	LB/100 GAL		7EPP A										

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ALOCA 7 DA-A	ALOCA 14 DA-A	ALOCA 28 DA-A	VERPG 7 DA-A	VERPG 14 DA-A	VERPG 28 DA-A	CARPA 7 DA-A	CARPA 14 DA-A	CARPA 28 DA-A	GLXMA Injury Percent 28 DA-A
17	GRAMOXONE MAX	3	SL	0.75	LB A/A	2.0	PT/A	7EPP	A	99	98	99	99	99	99	99	98	99	0
17	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	7EPP	A										
18	GRAMOXONE MAX	3	SL	1.0	LB A/A	2.7	PT/A	7EPP	A	99	98	99	99	99	99	99	98	99	0
18	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	7EPP	A										
LSD (P=.05)										0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F										0.000	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000	0.3784	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000	38.594	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000	0.0001	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Trial Comments

1. Protocol: BASF, Van Diest.
2. Ratings: CI and WC 7, 14 and 28 DAT; continue injury ratings if injury persists.
3. Blanket application of glyphosate at 0.75 lbae/A applied at 28 DAT to entire area on 6-3-04.
4. DA-A = Days after 7EPP application.
5. At 14 DA-A, crop has not emerged, thus no crop injury ratings.
6. At 28 DA-A, winter annual weeds in nontreated plots were dead, except ERICA.