

Glyphosate and Proaxis Combinations.

Project Code: 04-WF-NE40 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: 10-14-04

Objective:

Evaluate the efficacy, crop tolerance and soybean yield for glyphosate and Proaxis tank-mix combinations.

Weed Code	Common Name	Scientific Name
1. NA	crop tolerance only	

Crop 1:	GLXMA soybean	Variety:	AG 4403 RR
Planting Method:	Seeded	Planting Date:	5-21-04
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:	Reduced-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	ZEAMX, 2003				

Field Prep./Maintenance: N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A and 3 ton/A lime

Soil Name: Ebbert	% OM: 2	pH: 5.6	CEC: 10
Texture: Silt loam	Fert. Level: P1: 65 LB/A,	K: 393 LB/A	

APPLICATION DESCRIPTION

	A
Application Date:	7-7-04
Time of Day:	9:30
Application Method:	Spray
Application Timing:	R1
Applic. Placement:	BROFOL
Air Temp., Unit:	73 F
% Relative Humidity:	58
Wind Velocity, Unit:	7 MPH
Soil Moisture:	ABONOR

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	GLXMA R1
Height, Unit:	18-21 IN

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code:	NA

APPLICATION EQUIPMENT

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

NOTES:

Harvested 10-7-04, (2) 30 inch rows x 27 ft.

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Injury Percent 7-14-04 7 DA-A	GLXMA Injury Percent 7-21-04 14 DA-A	GLXMA Injury Percent 8-4-04 28 DA-A	GLXMA Moisture Percent 10-7-04	GLXMA Yield bu/A 10-7-04
1	GF-317	0.497	CS	0.01	LB A/A	2.56	FL OZ/A	R1	A	0	0	0	10.8	64
1	GF-1279	4	SL	0.75	LB AE/A	24	FL OZ/A	R1	A					
2	GF-317	0.497	CS	0.01	LB A/A	2.56	FL OZ/A	R1	A	0	0	0	11.0	66
2	GF-1279	4	SL	1.12	LB AE/A	36	FL OZ/A	R1	A					
3	GF-317	0.497	CS	0.015	LB A/A	3.84	FL OZ/A	R1	A	0	0	0	10.8	67
3	GF-1279	4	SL	0.75	LB AE/A	24	FL OZ/A	R1	A					
4	GF-317	0.497	CS	0.015	LB A/A	3.84	FL OZ/A	R1	A	0	0	0	10.8	64
4	GF-1279	4	SL	1.12	LB AE/A	36	FL OZ/A	R1	A					
5	GF-317	0.497	CS	0.01	LB A/A	2.56	FL OZ/A	R1	A	0	0	0	11.0	68
6	GF-317	0.497	CS	0.015	LB A/A	3.84	FL OZ/A	R1	A	0	0	0	10.9	67
7	GF-1279	4	SL	0.75	LB AE/A	24	FL OZ/A	R1	A	0	0	0	10.8	66
8	GF-1279	4	SL	1.12	LB AE/A	36	FL OZ/A	R1	A	0	0	0	10.8	65
LSD (P=.05)										0.0	0.0	0.0	0.30	4.0
Replicate F										0.000	0.000	0.000	7.196	0.151
Replicate Prob(F)										1.0000	1.0000	1.0000	0.0017	0.9276
Treatment F										0.000	0.000	0.000	0.761	1.117
Treatment Prob(F)										1.0000	1.0000	1.0000	0.6252	0.3890

Trial Comments

1. Protocol: Dow.
2. Ratings: CI 7, 14 and 28 DAT; efficacy (weed and insect) at 14 and 28 DAT.
3. Yield.
4. Blanket application of a non-injurious herbicides to maintain near weed-free.
Handweeding may be necessary in insecticide only treatments.
5. DA-A = Days after R1 application.
6. Harvested 10-7-04, (2) 30 inch rows x 27 ft.