

(04FUNG)

Ohio State University
Horticulture and Crop Science
GLYPHOSATE FUNGICIDE INTERACTION TRIAL

Trial ID: 04FUNG Study Dir.: Anthony F. Dobbels
Location: WESTERN BRANCH G-2 Investigator: Dr. Mark M. Loux

GENERAL TRIAL INFORMATION

Study Director: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1. SETFA	Giant foxtail	Setaria faberi
2. CHEAL	Lambsquarters, common	Chenopodium album
3. AMBTR	Ragweed, giant	Ambrosia trifida

Crop 1: GLXMA SOYBEAN Variety: PIONEER 93B36
Planting Date: 5-10-04 Planting Method: KINZE 2000
Rate: 175386 SEED/A Depth: 0.75 IN
Row Spacing: 15 IN Seed Bed: NO-TILL

SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 30 FT Reps: 3
Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% OM: 3.9 Texture: silty clay loam
pH: 6.2 Soil Name: Kokomo
CEC: 23

APPLICATION DESCRIPTION

	A	B
Application Date:	6-17-04	6-22-04
Time of Day:	9:00 A.M.	9:00 A.M.
Application Method:	SPRAY	SPRAY
Application Timing:	EPO	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	78 F	73 F
% Relative Humidity:	81	76
Wind Velocity, Unit:	8 SW	6 W
Soil Temp., Unit:	76 F	69 F
Soil Moisture:	MOIST/WET	DRY/MOIST
% Cloud Cover:	100	70

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GLXMA	GLXMA
Stage Scale:	5 TRI/R1	5 TRI/R1
Height, Unit:	9 IN	14 IN

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WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SETFA 6"	SETFA 14-16"
Stage Scale:	4 LVS	4 LVS
Density, Unit:	94 M2	94 M2
Weed 2 Code, Stage:	CHEAL 8"	CHEAL 8-10"
Stage Scale:	>12 LVS	>12 LVS
Density, Unit:	1 M2	1 M2
Weed 3 Code, Stage:	AMBTR 6-8"	AMBTR 16-24"
Stage Scale:	8 LVS	12 LVS
Density, Unit:	3 M2	3 M2

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	50	50
Nozzle Type:	DG 11002	DG
Nozzle Size:		11002
Nozzle Spacing, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	20 GPA	20 GPA
Propellant:	CO2	CO2

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Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

ARM Action Codes

Subsamples, Dec.

GLYMX WEIGHT LBS 9-24-04 HARVEST	GLYMX MOISTURE PERCENT 9-24-04 HARVEST	GLYMX YIELD BU/ACRE 9-24-04 HARVEST TY1
1	1	1

Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	Appl Code	8	9	10
1	ROUNDUP WEATHERMAX	22 oz/a		EPO	A	17.0 ab	10.8 a	81.1 a
1	AMS	4 qt/a		EPO				
1	QUADRIIS	9 oz/a		POST	B			
2	ROUNDUP WEATHERMAX	22 oz/a		EPO	A	17.2 a	10.8 a	81.8 a
2	AMS	4 qt/a		EPO				
2	FOLICUR	4 oz/a		POST	B			
3	ROUNDUP WEATHERMAX	22 oz/a		EPO	A	16.2 ab	10.8 a	77.0 a
3	AMS	4 qt/a		EPO				
3	TILT	4 oz/a		POST	B			
4	ROUNDUP WEATHERMAX	22 oz/a		EPO	A	16.7 ab	10.6 a	79.9 a
4	AMS	4 qt/a		EPO				
4	BRAVO	29 oz/a		POST	B			
5	ROUNDUP WEATHERMAX	22 oz/a		POST	B	16.1 ab	10.3 a	77.1 a
5	AMS	4 qt/a		POST				
6	TOUCHDOWN	32 oz/a		POST	B	16.5 ab	10.8 a	78.6 a
6	AMS	4 qt/a		POST				
7	ROUNDUP WEATHERMAX	22 oz/a		POST	B	16.1 ab	10.7 a	76.8 a
7	QUADRIIS	9 oz/a		POST	B			
7	AMS	4 qt/a		POST				
8	ROUNDUP WEATHERMAX	22 oz/a		POST	B	16.3 ab	10.3 a	78.1 a
8	FOLICUR	4 oz/a		POST				
8	AMS	4 qt/a		POST				
9	ROUNDUP WEATHERMAX	22 oz/a		POST	B	15.9 ab	10.4 a	76.1 a
9	TILT	4 oz/a		POST	B			
9	AMS	4 qt/a		POST				

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Weed Code						
Crop Code					GLYMX	GLYMX
Rating Data Type					WEIGHT	MOISTURE
Rating Unit					LBS	PERCENT
Rating Date					9-24-04	9-24-04
Trt-Eval Interval					HARVEST	HARVEST
ARM Action Codes						GLYMX
# Subsamples, Dec.						YIELD
						BU/ACRE
						9-24-04
						HARVEST
						TY1
					1	1
						1

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	8	9	10
10	ROUNDUP WEATHERMAX	22 oz/a		POST	B	15.5 b	10.2 a	74.3 a
10	BRAVO	29 oz/a		POST	B			
10	AMS	4 qt/a		POST				
11	TOUCHDOWN TOTAL	23 oz/a		POST	B	15.6 ab	10.4 a	74.8 a
11	QUADRI	9 oz/a		POST	B			
11	AMS	4 qt/a		POST				
12	TOUCHDOWN TOTAL	23 oz/a		POST	B	15.6 ab	10.2 a	75.0 a
12	FOLICUR	4 oz/a		POST	B			
12	AMS	4 qt/a		POST				
13	TOUCHDOWN TOTAL	23 oz/a		POST	B	15.9 ab	10.6 a	76.1 a
13	TILT	4 oz/a		POST	B			
13	AMS	4 qt/a		POST				
14	TOUCHDOWN TOTAL	23 oz/a		POST	B	16.1 ab	10.6 a	76.7 a
14	BRAVO	29 oz/a		POST	B			
14	AMS	4 qt/a		POST				
15	TOUCHDOWN TOTAL	23 oz/a		POST	B	16.5 ab	10.4 a	78.9 a
15	QUADRI	6.2 oz/a		POST				
15	AMS	4 qt/a		POST				
16	UTC					10.3 c	10.7 a	49.3 b
	LSD (P=.05)					1.63	0.55	7.70
	Standard Deviation					0.98	0.33	4.62
	CV					6.15	3.11	6.1
	Replicate F					2.850	1.696	2.872
	Replicate Prob(F)					0.0736	0.2005	0.0722
	Treatment F					7.546	1.342	7.643
	Treatment Prob(F)					0.0001	0.2391	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Column 3: TY1 = 4.6464*[8]*(100-[9])/87