

(04FUNGW)

Ohio State University
Horticulture and Crop Science

GLYPHOSATE FUNGICIDE INTERACTION TRIAL

Trial ID: 04FUNGW
Location: NORTHWEST A-1

Study Dir.: Anthony F. Dobbels
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. HIBTR	Mallow, Venice	Hibiscus trionum
3. AMBEL	Ragweed, common	Ambrosia artemisiifolia

Crop 1: GLXMA SOYBEAN

Variety: PIONEER 93B36

Planting Date: 4-26-04

Planting Method: GREAT PLAINS DRILL

Rate: 200000 SEED/A

Depth: 0.75 IN

Row Spacing: 7.5 IN

Seed Bed: NO-TILL

SITE AND DESIGN

Plot Width, Unit: 10 FT

Plot Length, Unit: 30 FT

Reps: 3

Tillage Type: NO-TILL

Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance: APPLIED BURNDOWN OF 22 OZ ROUNDUP WEATHERMAX AT PLANT

SOIL DESCRIPTION

% OM:	3.7	Texture:	clay
pH:	6.6	Soil Name:	Hoytville
CEC:	19.5		

APPLICATION DESCRIPTION

	A	B
Application Date:	6-18-04	6-23-04
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:	70 F	61 F
% Relative Humidity:	84	62
Wind Velocity, Unit:	6 E	5 W
Soil Temp., Unit:	70 F	61 F
Soil Moisture:	MOIST/WET	DRY/DRY
% Cloud Cover:	0	0

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GLXMA	GLXMA
Stage Scale:	7 TRI/R1	7 TRI/R1
Height, Unit:	9 IN	15 IN

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WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SETFA 12"	SETFA 12-18"
Stage Scale:	4 LVS	4 LVS
Density, Unit:	1.0 M2	
Weed 2 Code, Stage:	HIBTR 12"	HIBTR 15"
Stage Scale:	>12 LVS	>12 LVS
Weed 3 Code, Stage:	AMBEL 10"	AMBEL 12"
Stage Scale:	12 LVS	12 LVS

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 9-21-04 HARVEST	GLYMX MOISTURE PERCENT 9-21-04 HARVEST	GLYMX YIELD BU/ACRE 9-21-04 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	19.0 a	9.6 a	69.8 a
1	AMS	4 qt/a		EPO				
1	QUADRIIS	9 oz/a		POST	B			
2	ROUNDUP WEATHERMAX	22 oz/a		EPO	A	17.9 a	10.1 a	65.2 a
2	AMS	4 qt/a		EPO				
2	FOLICUR	4 oz/a		POST	B			
3	ROUNDUP WEATHERMAX	22 oz/a		EPO	A	17.8 a	9.1 a	65.7 a
3	AMS	4 qt/a		EPO				
3	TILT	4 oz/a		POST	B			
4	ROUNDUP WEATHERMAX	22 oz/a		EPO	A	17.8 a	9.1 a	65.8 a
4	AMS	4 qt/a		EPO				
4	BRAVO	29 oz/a		POST	B			
5	ROUNDUP WEATHERMAX	22 oz/a		POST	B	17.9 a	9.1 a	65.9 a
5	AMS	4 qt/a		POST				
6	TOUCHDOWN	32 oz/a		POST	B	18.9 a	9.5 a	69.5 a
6	AMS	4 qt/a		POST				
7	ROUNDUP WEATHERMAX	22 oz/a		POST	B	19.0 a	9.5 a	69.9 a
7	QUADRIIS	9 oz/a		POST	B			
7	AMS	4 qt/a		POST				
8	ROUNDUP WEATHERMAX	22 oz/a		POST	B	17.9 a	9.5 a	65.9 a
8	FOLICUR	4 oz/a		POST				
8	AMS	4 qt/a		POST				
9	ROUNDUP WEATHERMAX	22 oz/a		POST	B	18.5 a	10.0 a	67.5 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					9-21-04	9-21-04
Trt-Eval Interval					HARVEST	HARVEST
ARM Action Codes						TY1
# Subsamples, Dec.					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	18.4 a	9.0 a	67.9 a
10	BRAVO	29 oz/a		POST	B			
10	AMS	4 qt/a		POST				
11	TOUCHDOWN TOTAL	23 oz/a		POST	B	18.9 a	9.6 a	69.2 a
11	QUADRI	9 oz/a		POST	B			
11	AMS	4 qt/a		POST				
12	TOUCHDOWN TOTAL	23 oz/a		POST	B	17.9 a	9.3 a	65.8 a
12	FOLICUR	4 oz/a		POST	B			
12	AMS	4 qt/a		POST				
13	TOUCHDOWN TOTAL	23 oz/a		POST	B	18.4 a	9.4 a	67.8 a
13	TILT	4 oz/a		POST	B			
13	AMS	4 qt/a		POST				
14	TOUCHDOWN TOTAL	23 oz/a		POST	B	18.5 a	9.3 a	68.2 a
14	BRAVO	29 oz/a		POST	B			
14	AMS	4 qt/a		POST				
15	TOUCHDOWN TOTAL	23 oz/a		POST	B	19.4 a	9.6 a	71.2 a
15	TILT	4 oz/a		POST				
15	AMS	4 qt/a		POST				
16	UTC					18.5 a	9.6 a	67.8 a
LSD (P=.05)						1.76	0.92	6.35
Standard Deviation						1.06	0.55	3.81
CV						5.74	5.86	5.63
Replicate F						4.256	0.501	4.179
Replicate Prob(F)						0.0236	0.6110	0.0251
Treatment F						0.719	0.928	0.711
Treatment Prob(F)						0.7468	0.5455	0.7547

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 = 3.532847*[8]*(100-[9])/87