

(04FUNG2NW)

Ohio State University
Horticulture and Crop Science

FUNGICIDE TIMING STUDY

Trial ID: 04FUNG2NW

Study Dir.:

Location: NORTHWEST BRANCH A-1

Investigator: Dr. Mark M. Loux

GENERAL TRIAL INFORMATION

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. AMBEL	Ragweed, common	Ambrosia artemisiifolia
3. HIBTR	Mallow, Venice	Hibiscus trionum

Crop 1: GLXMA SOYBEAN

Variety: PIONEER 93B36

Planting Date: 4-26-04

Planting Method: GREAT PLAINS

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

SOIL DESCRIPTION

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

APPLICATION DESCRIPTION

	A	B	C
Application Date:	5-3-04	6-23-04	7-2-04
Time of Day:	11:00 A.M	9:00 A.M.	9:00 A.M.
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	6-8"	V-4
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	48 F	61 F	75 F
% Relative Humidity:	41	62	55
Wind Velocity, Unit:	8 NW	5 W	8 E
Soil Temp., Unit:	50 F	61 F	70 F
Soil Moisture:	DRY/MOIST	DRY/DRY	DRY/DRY
% Cloud Cover:	0	0	5

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GLXMA	GLXMA	GLXMA
Stage Scale:		7 TRI/R1	15 TRI/FL
Height, Unit:		15 IN	19 IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	SETFA	SETFA 12-18"	SETFA 24"
Stage Scale:		4 LVS	6 LVS
Weed 2 Code, Stage:	AMBEL	AMBEL 12"	AMBEL 16"
Stage Scale:		12 LVS	>12 LVS
Weed 3 Code, Stage:	HIBTR	HIBTR 15"	HIBTR 12-16"
Stage Scale:		>12 LVS	>12 LVS

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APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	50	50	50
Nozzle Type:	DG	DG	DG
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA
Propellant:	CO2	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	GLYMX MOISTURE PERCENT	GLYMX YIELD BU/ACRE
9-21-04 HARVEST	9-21-04 HARVEST	9-21-04 HARVEST
1	1	1

Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	Appl Code	8	9	10
1	ROUNDUP WEATHERMAX	22 oz/a		6-8"	B	18.3 a	8.7 a	67.5 a
1	AMS	4 qt/a		6-8"				
2	ROUNDUP WEATHERMAX	22 oz/a		6-8"	B	17.3 a	9.0 a	63.7 a
2	AMS	4 qt/a		6-8"				
2	ROUNDUP WEATHERMAX	22 oz/a		V-4	C			
2	AMS	4 qt/a		V-4				
3	ROUNDUP WEATHERMAX	22 oz/a		V-4	C	18.2 a	9.2 a	66.8 a
3	AMS	4 qt/a		V-4				
4	ROUNDUP WEATHERMAX	44 oz/a		V-4	C	18.4 a	8.8 a	67.9 a
4	AMS	4 qt/a		V-4				
5	CANOPY XL 3.5 OZ/A					18.1 a	8.9 a	66.7 a
5	CLASSIC	1.34 oz/a		PRE	A			
5	AUTHORITY	2.18 oz/a		PRE				
5	ROUNDUP WEATHERMAX	22 oz/a		6-8"	B			
5	AMS	4 qt/a		6-8"				
6	CANOPY XL 3.5 OZ/A					18.2 a	9.1 a	67.0 a
6	CLASSIC	1.34 oz/a		PRE	A			
6	AUTHORITY	2.18 oz/a		PRE				
6	ROUNDUP WEATHERMAX	22 oz/a		6-8"	B			
6	AMS	4 qt/a		6-8"				
6	ROUNDUP WEATHERMAX	22 oz/a		V-4	C			
6	AMS	4 qt/a		V-4				
7	CANOPY XL 3.5 OZ/A					18.5 a	9.7 a	67.6 a
7	CLASSIC	1.34 oz/a		PRE	A			
7	AUTHORITY	2.18 oz/a		PRE				
7	ROUNDUP WEATHERMAX	22 oz/a		V-4	C			
7	AMS	4 qt/a		V-4				

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Weed Code							
Crop Code					GLYMX	GLYMX	GLYMX
Rating Data Type					WEIGHT	MOISTURE	YIELD
Rating Unit					LBS	PERCENT	BU/ACRE
Rating Date					9-21-04	9-21-04	9-21-04
Trt-Eval Interval					HARVEST	HARVEST	HARVEST
ARM Action Codes							TY1
# Subsamples, Dec.					1	1	1

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	8	9	10
8	CANOPY XL 3.5 OZ/A					17.9 a	9.0 a	65.8 a
8	CLASSIC	1.34 oz/a		PRE	A			
8	AUTHORITY	2.18 oz/a		PRE				
8	ROUNDUP WEATHERMAX	44 oz/a		V-4	C			
8	AMS	4 qt/a		V-4				
9	GANGSTER 1.8 OZ/A					17.2 a	8.9 a	63.5 a
9	VALOR SX	1.5 oz/a		PRE	A			
9	FIRSTRATE	0.3 oz/a		PRE				
9	ROUNDUP WEATHERMAX	22 oz/a		6-8"	B			
9	AMS	4 qt/a		6-8"				
10	GANGSTER 1.8 OZ/A					16.6 a	9.3 a	61.0 a
10	VALOR SX	1.5 oz/a		PRE	A			
10	FIRSTRATE	0.3 oz/a		PRE				
10	ROUNDUP WEATHERMAX	22 oz/a		6-8"	B			
10	AMS	4 qt/a		6-8"				
10	ROUNDUP WEATHERMAX	22 oz/a		V-4	C			
10	AMS	4 qt/a		V-4				
11	GANGSTER 1.8 OZ/A					17.7 a	8.9 a	65.2 a
11	VALOR SX	1.5 oz/a		PRE	A			
11	FIRSTRATE	0.3 oz/a		PRE				
11	ROUNDUP WEATHERMAX	22 oz/a		V-4	C			
11	AMS	4 qt/a		V-4				
12	GANGSTER 1.8 OZ/A					17.2 a	9.0 a	63.3 a
12	VALOR SX	1.5 oz/a		PRE	A			
12	FIRSTRATE	0.3 oz/a		PRE				
12	ROUNDUP WEATHERMAX	44 oz/a		V-4	C			
12	AMS	4 qt/a		V-4				
13	DOMAIN	16 oz/a		PRE	A	18.8 a	9.0 a	69.2 a
13	CANOPY XL 2.5 OZ/A							
13	CLASSIC	0.96 oz/a		PRE				
13	AUTHORITY	1.55 oz/a		PRE				
13	ROUNDUP WEATHERMAX	22 oz/a		6-8"	B			
13	AMS	4 qt/a		6-8"				

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Weed Code			
Crop Code	GLYMX	GLYMX	GLYMX
Rating Data Type	WEIGHT	MOISTURE	YIELD
Rating Unit	LBS	PERCENT	BU/ACRE
Rating Date	9-21-04	9-21-04	9-21-04
Trt-Eval Interval	HARVEST	HARVEST	HARVEST
ARM Action Codes			TY1
# Subsamples, Dec.	1	1	1

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	8	9	10
14	DOMAIN	16 oz/a		PRE	A	17.4 a	8.9 a	64.1 a
14	CANOPY XL 2.5 OZ/A							
14	CLASSIC	0.96 oz/a		PRE				
14	AUTHORITY	1.55 oz/a		PRE				
14	ROUNDUP WEATHERMAX	22 oz/a		6-8"	B			
14	AMS	4 qt/a		6-8"				
14	ROUNDUP WEATHERMAX	22 oz/a		V-4	C			
14	AMS	4 qt/a		V-4				
15	DOMAIN	16 oz/a		PRE	A	17.6 a	9.0 a	64.8 a
15	CANOPY XL 2.5 OZ/A							
15	CLASSIC	0.96 oz/a		PRE				
15	AUTHORITY	1.55 oz/a		PRE				
15	ROUNDUP WEATHERMAX	22 oz/a		V-4	C			
15	AMS	4 qt/a		V-4				
16	DOMAIN	16 oz/a		PRE	A	18.4 a	8.9 a	68.0 a
16	CANOPY XL 2.5 OZ/A							
16	CLASSIC	0.96 oz/a		PRE				
16	AUTHORITY	1.55 oz/a		PRE				
16	ROUNDUP WEATHERMAX	44 oz/a		V-4	C			
16	AMS	4 qt/a		V-4				
LSD (P=.05)						1.64	0.50	6.05
Standard Deviation						0.98	0.30	3.63
CV						5.51	3.31	5.52
Replicate F						1.922	0.257	1.829
Replicate Prob(F)						0.1639	0.7754	0.1780
Treatment F						1.111	1.955	1.114
Treatment Prob(F)						0.3883	0.0577	0.3859

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 = 3.52*[8]*(100-[9])/87