

# Ohio State University Horticulture and Crop Science

Flexstar/glyphosate adjuvant study

Trial ID: 10clrkgw1 Study Dir.:  
Location: clarksburg Investigator: Dr. Mark M. Loux

### GENERAL TRIAL INFORMATION

Investigator: Dr. Mark M. Loux

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

### CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1. AMBTR Gi	ant ragweed	Ambrosia trifida
2. SETFA Gi	ant foxtail	Setaria faberi

Crop 1: GLXMA SOYBEAN Variety: SEED CONSULTANTS SC 9349  
 Planting Date: 4/20/10 Planting Method: SEEDED  
 Rate: 182000 S/A Depth: 0.75 IN  
 Row Spacing: 15 IN Seed Bed: CONVENTIONAL

### SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 40 FT Reps: 4  
 Site Type: FIELD  
 Tillage Type: CONVENTIONAL-TILL Study Design: RACOBL

### APPLICATION DESCRIPTION

A  
 Application Date: 6/2/10  
 Time of Day: 8:45 A.M.  
 Application Method: SPRAY  
 Application Timing: POST  
 Applic. Placement: BROFO  
 Air Temp., Unit: 75 F  
 % Relative Humidity: 80  
 Wind Velocity, Unit: 3 MPH  
 Dew Presence (Y/N): N  
 Soil Temp., Unit: 68 F  
 Soil Moisture: SLIWET  
 % Cloud Cover: 100

### CROP STAGE AT EACH APPLICATION

A  
 Crop 1 Code, Stage: GLXMA V3  
 Stage Scale: BBCH  
 Height, Unit: 6

### WEED STAGE AT EACH APPLICATION

A  
 Weed 1 Code, Stage: AMBTR 6"  
 Stage Scale: 6 LVS  
 Weed 2 Code, Stage: SETFA 4"  
 Stage Scale: 3 LVS

### APPLICATION EQUIPMENT

A  
 Appl. Equipment: BACKPACK  
 Operating Pressure: 53  
 Nozzle Type: DG  
 Nozzle Size: 110015  
 Nozzle Spacing, Unit: 18 IN  
 Ground Speed, Unit: 3 MPH  
 Carrier: WATER  
 Spray Volume, Unit: 15 GPA  
 Propellant: CO2

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Weed Code		AMBTR	AMBTR
Crop Code	GLXMA		
Rating Data Type	PHYTO	CONTRO	CONTRO
Rating Unit	%	%	%
Rating Date	6/17/10	6/17/10	7/2/10
Trt-Eval Interval	15 DA-A	15 DA-A	30 DA-A
# Subsamples, Dec.	- 0	- 0	- 0

Trt No.	Treatment Name	Form Conc	Product Rate	Product Rate Unit	Appl Code	1	2	3
1	FLEXSTAR	1.88	1.33 pt/a	A		4	95	91
1	DESTINY HC	100	0.3 qt/a	A				
1	AMS	100	3 qt/a	A				
2	FLEXSTAR	1.88	1.33 pt/a	A		2	91	86
2	DESTINY HC	100	0.6 qt/a	A				
2	AMS	100	3 qt/a	A				
3	FLEXSTAR	1.88	1.33 pt/a	A		4	93	90
3	LOVELAND MSO	100	0.3 qt/a	A				
3	AMS	100	3 qt/a	A				
4	FLEXSTAR	1.88	1.33 pt/a	A		3	98	98
4	LOVELAND MSO	100	0.6 qt/a	A				
4	AMS	100	3 qt/a	A				
5	FLEXSTAR	1.88	1.33 pt/a	A		3	83	76
5	SUPERB HC	100	0.3 qt/a	A				
5	AMS	100	3 qt/a	A				
6	FLEXSTAR	1.88	1.33 pt/a	A		4	96	96
6	SUPERB HC	100	0.6 qt/a	A				
6	AMS	100	3 qt/a	A				
7	FLEXSTAR	1.88	1.33 pt/a	A		2	90	85
7	PRIME OIL	100	0.3 qt/a	A				
7	AMS	100	3 qt/a	A				
8	FLEXSTAR	1.88	1.33 pt/a	A		2	91	89
8	PRIME OIL	100	0.6 qt/a	A				
8	AMS	100	3 qt/a	A				
9	FLEXSTAR	1.88	1.33 pt/a	A		4	88	84
9	ROUNDUP POWERMAX	4.5	22 oz/a	A				
9	DESTINY HC	100	0.3 qt/a	A				
9	AMS	100	3 qt/a	A				
10	FLEXSTAR	1.88	1.33 pt/a	A		2	90	88
10	ROUNDUP POWERMAX	4.5	22 oz/a	A				
10	DESTINY HC	100	0.6 qt/a	A				
10	AMS	100	3 qt/a	A				
11	FLEXSTAR	1.88	1.33 pt/a	A		3	93	90
11	ROUNDUP POWERMAX	4.5	22 oz/a	A				
11	LOVELAND MSO	100	0.3 qt/a	A				
11	AMS	100	3 qt/a	A				
12	FLEXSTAR	1.88	1.33 pt/a	A		3	97	93
12	ROUNDUP POWERMAX	4.5	22 oz/a	A				
12	LOVELAND MSO	100	0.6 qt/a	A				
12	AMS	100	3 qt/a	A				
13	FLEXSTAR	1.88	1.33 pt/a	A		1	85	79
13	ROUNDUP POWERMAX	4.5	22 oz/a	A				
13	SUPERB HC	100	0.3 qt/a	A				
13	AMS	100	3 qt/a	A				
14	FLEXSTAR	1.88	1.33 pt/a	A		1	91	90
14	ROUNDUP POWERMAX	4.5	22 oz/a	A				

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Weed Code		AMBTR	AMBTR
Crop Code		GLXMA	
Rating Data Type		PHYTO	CONTRO
Rating Unit		%	%
Rating Date		6/17/10	7/2/10
Trt-Eval Interval		15 DA-A	30 DA-A
# Subsamples, Dec.		- 0	- 0

Trt No.	Treatment Name	Form Conc	Product Rate	Product Rate Unit	Appl Code	1	2	3
14	SUPERB HC	100	0.6 qt/a		A			
14	AMS	100	3 qt/a		A			
15	FLEXSTAR	1.88	1.33 pt/a		A	1	85	88
15	ROUNDUP POWERMAX	4.5	22 oz/a		A			
15	PRIME OIL	100	0.3 qt/a		A			
15	AMS	100	3 qt/a		A			
16	FLEXSTAR	1.88	1.33 pt/a		A	2	89	96
16	ROUNDUP POWERMAX	4.5	22 oz/a		A			
16	PRIME OIL	100	0.6 qt/a		A			
16	AMS	100	3 qt/a		A			
LSD (P=.05)						3.4	12.7	16.2
Standard Deviation						2.0	8.9	11.3
CV						78.47	9.8	12.77
Bartlett's X2						4.856	6.692	13.272
P(Bartlett's X2)						0.993	0.966	0.581
Replicate F						0.417	5.125	8.047
Replicate Prob(F)						0.6625	0.0040	0.0002
Treatment F						1.008	0.938	1.040
Treatment Prob(F)						0.4728	0.5314	0.4353

Weed Code  
AMBTR = Ambrosia trifida

Crop Code  
GLXMA = SOYBEAN / GLYCINE MAX (L.) MERR.

Rating Data Type  
CONTRO = CONTROL / BURNDOWN or KNOCKDOWN

Rating Unit  
% = PERCENT