

(04SYSSOYW)

Ohio State University
Horticulture and Crop Science
SOYBEAN CORN SYSTEMS STUDY SOYBEAN TREATMENTS

Trial ID: 04SYSSOYW Study Dir.: Anthony F. Dobbels
Location: WESTERN BRANCH G 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. AMBTR	Ragweed, giant	Ambrosia trifida
3. XANST	Common cocklebur	Xanthium strumarium
4. CHEAL	Lambsquarters, common	Chenopodium album
5. AMBEL	Ragweed, common	Ambrosia artemisiifolia
6. POLPY	Pennsylvania smartweed	Polygonum pensylvanicum

Crop 1: GLXMA SOYBEAN Variety: ASGROW AG3302 RR/STS
Planting Date: 5-10-04 Planting Method: KINZE 2000
Rate: 155509 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: 40 FT Reps: 4
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance: BURNDOWN WITH ROUNDUP WEATHERMAX 22 OZ. 5-11-04

SOIL DESCRIPTION

% OM: 3.9 Texture: SILTY CLAY LOAM
pH: 6.2 Soil Name: KOKOMO
CEC: 23

APPLICATION DESCRIPTION

	A	B	C
Application Date:	5-11-04	6-17-04	7-8-04
Time of Day:	8:00 A.M.	9:00 A.M.	8:00 A.M.
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	POST	SCOUT
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	68 F	78 F	66 F
% Relative Humidity:	73	81	72
Wind Velocity, Unit:	3 SW	8 SW	8 W
Soil Temp., Unit:	61 F	76 F	69 F
Soil Moisture:	DRY/MOIST	MOIST/WET	DRY/DRY
% Cloud Cover:	20	100	15

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GLXMA	GLXMA	GLXMA
Stage Scale:	5 TRI/R1	12 TRI/FL	
Height, Unit:	9 IN	20 IN	

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WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	SETFA .	SETFA 6"	SETFA
Stage Scale:	. M2	4 LVS	
Weed 2 Code, Stage:	AMBTR .	AMBTR 6-8"	AMBTR
Stage Scale:	. M2	8 LVS	
Weed 3 Code, Stage:	XANST .	XANST 2-3"	XANST
Stage Scale:	. M2	4 LVS	
Weed 4 Code, Stage:	CHEAL .	CHEAL 8"	CHEAL
Stage Scale:	. M2	>12 LVS	
Weed 5 Code, Stage:	AMBEL .	AMBEL 5-6"	AMBEL
Stage Scale:	. M2	12 LVS	
Weed 6 Code, Stage:	POLPY .	POLPY 7-8"	POLPY 4-6"
Stage Scale:	. M2	>12 LVS	8 LVS

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	50	50	50
Nozzle Type:	DG 11002	DG	DG
Nozzle Size:		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	GLYMX	GLYMX	GLYMX
Rating Data Type	WEIGHT	MOISTURE	YIELD
Rating Unit	LBS	PERCENT	BU/ACRE
Rating Date	9-24-04	9-24-04	9-24-04
Trt-Eval Interval	HARVEST	HARVEST	HARVEST
ARM Action Codes			TY1
# Subsamples, Dec.	1	1	1

Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	Appl Code	20	21	22
1	ROUNDUP WEATHERMAX	21.3 oz/a		POST	B	25.1 a	11.2 bc	74.3 a
1	AMS	4 qt/a		POST	B			
1	ROUNDUP WEATHERMAX	16 oz/a		SCOUT	C			
1	SELECT	8 oz/a		SCOUT	C			
1	AMS	4 qt/a		SCOUT	C			
2	CLASSIC	1.15 oz/a		PRE	A	24.2 a	11.0 bc	71.8 a
2	AUTHORITY	1.88 oz/a		PRE	A			
2	CANOPY XL 3 OZ							
2	SYNCHRONY	0.5 oz/a		POST	B			
2	SELECT	8 oz/a		POST	B			
2	COC	1 % v/v		POST	B			
2	AMS	2.4 qt/a		POST	B			
3	PROWL H20	2.1 pt/a		PRE	A	24.7 a	13.5 a	71.2 a
3	RAPTOR	4 oz/a		POST	B			
3	FLEXSTAR	1.33 pt/a		POST	B			
3	NIS	0.25 % v/v		POST	B			
3	AMS	2.4 qt/a		POST	B			
4	PYTHON	1 oz/a		PRE	A	25.3 a	10.6 bc	75.5 a
4	FIRSTRATE	0.3 oz/a		POST	B			
4	SELECT	8 oz/a		POST	B			
4	COC	1 % v/v		POST	B			
4	28%	2.5 % v/v		POST	B			
5	SCEPTER	1.4 oz/a		PRE	A	25.5 a	11.5 b	75.4 a
5	FLEXSTAR	1.33 pt/a		POST	B			
5	FUSION	8 oz/a		POST	B			
5	MSO	1 % v/v		POST	B			
5	28%	2 qt/a		POST	B			

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Rating Unit					LBS	PERCENT	BU/ACRE
Rating Date					9-24-04	9-24-04	9-24-04
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	20	21	22
6	CLASSIC	1.15	oz/a	PRE	A	23.2 a	9.9 c	69.7 a
6	AUTHORITY	1.88	oz/a	PRE	A			
6	CANOPY XL 3 OZ							
6	ROUNDUP WEATHERMAX	21.3	oz/a	POST	B			
6	AMS	4	qt/a	POST	B			
LSD (P=.05)						1.83	1.37	5.69
Standard Deviation						1.22	0.91	3.78
CV						4.93	8.06	5.17
Replicate F						2.885	3.573	2.295
Replicate Prob(F)						0.0704	0.0395	0.1195
Treatment F						1.976	7.285	1.632
Treatment Prob(F)						0.1410	0.0012	0.2117

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 = $2.904 * [20] * (100 - [21]) / 87$