

Ohio State University
Horticulture and Crop Science

GRAIN QUALITY IN ROUNDUP READY SOYBEAN

Trial ID: 08ANDERSONS Study Dir.: Anthony F. Dobbels
Location: WESTERN BRANCH E-1 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. ECHCG	Common barnyardgrass	Echinochloa crus-galli
3. ABUTH	Velvetleaf	Abutilon theophrasti
4. AMBTR	Giant ragweed	Ambrosia trifida
5. CYPES	Yellow nutsedge	Cyperus esculentus
6. SIDSP	Prickly sida	Sida spinosa

Crop 1: GLXMA SOYBEAN Variety: SEED CONSULTANTS SC9386
Planting Date: May/22/2008 Planting Method: KINZE 2000
Rate: 175386 SEED/A Depth: 0.5 IN
Row Spacing: 15 IN Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 40 FT Reps: 4
Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% OM:	3.1	Texture:	SILTY CLAY LOAM
pH:	6.2	Soil Name:	KOKOMO
CEC:	23.5	Fert. Level:	EXCELLENT

APPLICATION DESCRIPTION

A

Application Date: Jun/25/2008
Time of Day: 9:00 A.M.
Application Method: SPRAY
Application Timing: POST
Applic. Placement: BROADCAST
Air Temp., Unit: 76 F
% Relative Humidity: 58
Wind Velocity, Unit: 7 NNW
Soil Temp., Unit: 65 F
Soil Moisture: DRY/MOIST
% Cloud Cover: 10

CROP STAGE AT EACH APPLICATION

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Crop 1 Code, Stage: GLXMA V4
Stage Scale: DESC
Height, Unit: 8 IN

WEED STAGE AT EACH APPLICATION

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Weed 1 Code, Stage: SETFA 4-6"
Stage Scale: 5 LVS
Density, Unit: 236 M2
Weed 2 Code, Stage: ECHCG 3"
Stage Scale: 3 LVS
Density, Unit: 23 M2
Weed 3 Code, Stage: ABUTH 2"
Stage Scale: 6 LVS
Density, Unit: 3 M2
Weed 4 Code, Stage: AMBTR 24"
Stage Scale: 32 LVS
Density, Unit: 6 M2
Weed 5 Code, Stage: CYPES 4-12"
Stage Scale: 6-8 LVS
Density, Unit: 2 M2
Weed 6 Code, Stage: SIDSP 2"
Stage Scale: 8 LVS
Density, Unit: 2 M2

APPLICATION EQUIPMENT

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Appl. Equipment: BACKPACK
Operating Pressure: 53
Nozzle Type: DG
Nozzle Size: 11002
Nozzle Spacing, Unit: 18 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 20 GPA
Propellant: CO2

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Weed Code			
Crop Code	GLXMA	GLXMA	GLXMA
Rating Data Type	YIELD	MOISTURE	YIELD
Rating Unit	LBS	PERCENT	BU
Rating Date	Oct/03/2008	Oct/03/2008	Oct/03/2008
Trt-Eval Interval	HARVEST	HARVEST	HARVEST
ARM Action Codes			TY1
# Subsamples, Dec.	2	2	1

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	17	18	19
1	ROUNDUP WEATHERMAX	22 oz/a		POST	A	21.97 a	12.96 a	64.2 a
1	AMS	4 qt/a		POST				
2	ROUNDUP WEATHERMAX	22 oz/a		POST	A	21.74 a	13.04 a	63.5 a
2	LBE-01	3.42 oz/a		POST				
2	AMS	4 qt/a		POST				
3	ROUNDUP WEATHERMAX	15.4 oz/a		POST	A	22.01 a	13.19 a	64.1 a
3	LBE-01	3.42 oz/a		POST				
3	AMS	4 qt/a		POST				
4	ROUNDUP WEATHERMAX	15.4 oz/a		POST	A	21.02 a	12.71 a	61.6 a
4	AMS	4 qt/a		POST				
5	ROUNDUP WEATHERMAX	22 oz/a		POST	A	21.61 a	12.66 a	63.4 a
5	FBS-1030	6 oz/a		POST				
5	AMS	4 qt/a		POST				
6	ROUNDUP WEATHERMAX	15.4 oz/a		POST	A	21.08 a	12.63 a	61.8 a
6	FBS-1030	6 oz/a		POST				
6	AMS	4 qt/a		POST				
7	ROUNDUP WEATHERMAX	42.7 oz/a		POST	A	21.41 a	12.62 a	62.8 a
7	AMS	4 qt/a		POST				
8	UTC					15.87 b	13.08 a	46.3 b
LSD (P=.05)						1.624	0.597	4.73
Standard Deviation						1.104	0.406	3.22
CV						5.3	3.15	5.27
Grand Mean						20.84	12.86	60.97
Bartlett's X2						4.766	11.996	5.814
P(Bartlett's X2)						0.689	0.101	0.562
Replicate F						9.110	1.246	9.687
Replicate Prob(F)						0.0005	0.3184	0.0003
Treatment F						13.672	1.305	13.944
Treatment Prob(F)						0.0001	0.2962	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.

ARM Action Codes

TY1 = 2.904*[17]*(100-[18])/86.5