

Ohio State University
Horticulture and Crop Science

2012/SOYBEAN/AUTHORITY/ANTHEM/

Title No. 2:

Trial ID: 12 SOYYLD1	Protocol ID: 12 SOYYLD1
Location: Western Branch	Study Director: Bryan Reeb
Project ID: SULF.SOY.12.JPR01(aab)	Investigator: Dr. Mark M. Loux
	Sponsor Contact: Joe Reed, FMC

General Trial Information

Study Director: Bryan Reeb	Title: Research Technician
Investigator: Dr. Mark M. Loux	Title: Professor

Trial Location

City: South Charleston	Latitude of LL Corner °: 39.86016 N
State/Prov.: Ohio	Longitude of LL Corner °: 83.67151 W
Postal Code: 45368	
Country: USA	

Crop Description

Crop 1: GLXMA Glycine max	Soybean	Description: Round Up Ready
Variety: SC 9330 RR		Planting Date: May-28-2012
BBCH Scale: BSOY		Rate, Unit: 155000 S/A
Planting Method: PLNTD		
Depth, Unit: 0.75 IN		
Row Spacing, Unit: 15 IN		
Seed Bed: MEDIUM medium	Soil Temperature, Unit: 79	F
Soil Moisture: DRY dry	Emergence Date: Jun-11-2012	
Harvest Date: Oct-17-2012	Harvest Equipment: MASSEY 8 XP	
Harvested Width, Unit: 6.25 FT	Harvested Length, Unit: 40	FT
% Standard Moisture: 13.0	Moisture Meter: HARVEST MASTER	
Weighing Equipment: HARVEST MASTER 401		

Pest Description

Pest 1 Type: W Code: SETFA Setaria faberi
Common Name: Giant foxtail

Pest 2 Type: W Code: AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 3 Type: W Code: CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 4 Type: W Code: IPOHE Ipomoea hederacea
Common Name: Ivyleaf morningglory

Pest 5 Type: W Code: AMARE Amaranthus retroflexus
Common Name: Redroot pigweed

Pest 6 Type: W Code: HIBTR Hibiscus trionum
Common Name: Venice mallow

Site and Design

Plot Width, Unit: 9.5 FT	Site Type: FIELD	field
Plot Length, Unit: 40 FT	Experimental Unit: 1	PLOT plot
Plot Area, Unit: 380 FT2	Tillage Type: CONTIL	conventional-till
Replications: 4	Study Design: RACOBL	Randomized Complete Block (RCB)
	Untreated Arrangement: INCLUDED	single control randomized in each block

No. Previous Crop Year
1. CORN 2011

Soil Description

Description Name: F-8 East	Texture: SICL silty clay loam
% OM: 2.4	Soil Name: Kokomo
pH: 6.2	Fert. Level: G good
CEC: 16	Soil Drainage: G good

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Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code	33	34	35
	Pest Type										
	Pest Code										
	Pest Scientific Name										
	Pest Name										
	Crop Code								GLXMA	GLXMA	GLXMA
	BBCH Scale								BSOY	BSOY	BSOY
	Crop Scientific Name								Glycine max	Glycine max	Glycine max
	Crop Name								Soybean	Soybean	Soybean
	Rating Date								Oct-17-2012	Oct-17-201	Oct-17-201
	Rating Type								YIELD	MOICON	YIELD
	Rating Unit								LBS	%	BU
	Number of Subsamples								1	1	1
	Days After First/Last Applic.								142 97	142 97	142 97
	Trt-Eval Interval									2	2
	Plant-Eval Interval										
	Days After Emergence								142 DP-1	142 DP-1	142 DP-1
	ARM Action Codes								128 DE-1	128 DE-1	128 DE-1
	Number of Decimals										TY1
									1	1	1
1	AUTHORITY FIRST DF	6.4 oz/a					ATPL	A	11.1 a	13.6 a	32.0 ab
1	ROUNDUP POWERMAX	32 oz/a					MPO	C			
1	Cadet	0.6 oz/a					MPO	C			
1	NIS	0.25 % v/v					MPO	C			
1	N-pak ams	3.75 % v/v					MPO	C			
2	AUTHORITY XL	6 oz/a					ATPL	A	11.5 a	13.7 a	33.2 ab
2	ROUNDUP POWERMAX	32 oz/a					MPO	C			
2	Resource	3 oz/a					MPO	C			
2	NIS	0.25 % v/v					MPO	C			
3	AUTHORITY MTZ	16 oz/a					ATPL	A	6.5 bc	13.4 a	18.7 c
3	SELECT MAX	8 oz/a					MPO	C			
3	COC	1 % v/v					MPO	C			
4	AUTHORITY XL	4 oz/a					ATPL	A	12.1 a	13.7 a	34.8 ab
4	ANTHEM	6 oz/a					EPO	B			
4	ROUNDUP POWERMAX	32 oz/a					EPO	B			
4	NIS	0.25 % v/v					EPO	B			
5	ROUNDUP POWERMAX	32 oz/a					EPO	B	12.3 a	13.8 a	35.3 a
5	ANTHEM	6 oz/a					EPO	B			
5	CLASSIC	0.75 oz/a					EPO	B			
5	NIS	0.25 % v/v					EPO	B			
5	ROUNDUP POWERMAX	32 oz/a					MPO	D			
5	NIS	0.25 % v/v					MPO	D			
6	AUTHORITY FIRST DF	4 oz/a					ATPL	A	11.6 a	14.1 a	33.3 ab
6	ANTHEM	6 oz/a					EPO	B			
6	ROUNDUP POWERMAX	32 oz/a					EPO	B			
6	NIS	0.25 % v/v					EPO	B			
7	ROUNDUP POWERMAX	32 oz/a					EPO	B	11.2 a	13.8 a	32.1 ab
7	ANTHEM	6 oz/a					EPO	B			
7	FIRSTRATE	0.30 oz/a					EPO	B			
7	NIS	0.25 % v/v					EPO	B			
7	ROUNDUP POWERMAX	32 oz/a					MPO	D			
7	NIS	0.25 % v/v					MPO	D			
8	ROUNDUP POWERMAX	32 oz/a					EPO	B	10.5 a	14.2 a	30.2 b
8	ANTHEM	6 oz/a					EPO	B			
8	FRONTROW @ .42 oz										
8	FIRSTRATE	0.0158 lb ai/a		0.3 oz/a			EPO	B			

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.

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Pest Type	GLXMA							
Pest Code	BSOY							
Pest Scientific Name	Glycine max							
Pest Name	Soybean							
Crop Code	GLXMA	GLXMA	GLXMA					
BBCH Scale	BSOY	BSOY	BSOY					
Crop Scientific Name	Glycine max	Glycine max	Glycine max					
Crop Name	Soybean	Soybean	Soybean					
Rating Date	Oct-17-2012	Oct-17-201	Oct-17-201					
Rating Type	YIELD	MOICON	YIELD					
Rating Unit	LBS	%	BU					
Number of Subsamples	1	1	1					
Days After First/Last Applic.	142 97	142 97	142 97					
Trt-Eval Interval								
Plant-Eval Interval	142 DP-1	142 DP-1	142 DP-1					
Days After Emergence	128 DE-1	128 DE-1	128 DE-1					
ARM Action Codes			TY1					
Number of Decimals	1	1	1					
Trt Treatment	Rate	Other	Other	Growth	Appl	33	34	35
No. Name	Rate	Rate	Rate	Unit	Code			
8 PYTHON	0.006 lb ai/a	0.12 oz/a		EPO	B			
8 NIS	0.25 % v/v			EPO	B			
8 ROUNDUP POWERMAX	32 oz/a			MPO	D			
8 NIS	0.25 % v/v			MPO	D			
9 ANTHEM	5 oz/a			ATPL	A	5.3 c	14.1 a	15.3 c
9 CADET	0.5 oz/a			EPO	B			
9 CLASSIC	0.75 oz/a			EPO	B			
9 NIS	0.25 % v/v			EPO	B			
10 ANTHEM	5 oz/a			ATPL	A	7.2 b	15.2 a	20.2 c
10 CADET	0.5 oz/a			EPO	B			
10 FIRSTRATE	0.30 oz/a			EPO	B			
10 NIS	0.25 % v/v			EPO	B			
LSD (P=.05)						1.77	0.99	5.16
Standard Deviation						1.22	0.68	3.55
CV						12.3	4.88	12.46

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

YIELD = yield

MOICON = moisture content

Rating Unit

% = percent

BU = bushel

Plant-Eval Interval

142 DP-1 = 1 GLXMA May-28-2012

ARM Action CodesTY1 = $2.904 * [33] * (100 - [34]) / 87$