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2013/SOYBEAN/AUTHORITY/ANTHEM/LL/RR

Trial ID: 13S-THP-CTS-42 Protocol ID: 13S-THP-CTS-42
 Location: Throckmorton Study Director:
 Project ID: SULF.SOY.13.JPR.05 (b) Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC - Joe Reed

General Trial Information

Study Director: Bill Johnson
Investigator: Dr. Bill Johnson **Title:** Professor

Discipline: H herbicide
Trial Status: E established
Initiation Date: Mar-18-2013

Trial Location

City: Lafayette
State/Prov.: IN
Postal Code: 47909
Country: USA

Personnel

Study Director: Bill Johnson
Investigator: Dr. Bill Johnson **Title:** Professor
Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA
Postal Code: 47907 **E-mail:** wgj@purdue.edu
Phone No.: 765-494-4656 **Mobile No.:** 765-404-9801

Cooperator/Landowner

Cooperator: Throckmorton Purdue Ag Center **Role:** Purdue Ag Center
Organization: Purdue University
Address 1: 8343 US 231 S

City: Lafayette **Phone No.:** 765-538-3422
State/Prov.: IN **Fax No.:** 765-538-3423
Postal Code: 47909 **E-mail:** jayyoung@purdue.edu
Country: USA United States

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: Asgrow AG2931 **Description:** RR
BBCH Scale: BSOY **Planting Date:** May-16-2013
Planting Method: SEEDED seeded **Rate, Unit:** 130000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN

Soil Moisture: SLIWET slightly wet **Soil Temperature, Unit:** 68 F
Emergence Date: May-22-2013

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

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 30 FT **Experimental Unit:** 1 PLOT plot
Plot Area, Unit: 300 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

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Maintenance

No.	Date	Maintenance Treatment Name	Rate	Rate Unit
1.	Jul-15-2013	PowerMax	22	OZ/A

Soil Description

Description Name: TPAC -Field 4A
% OM: 3.1 **Texture:** SIL silt loam
pH: 6 **Soil Name:** Toronto-Millbrook
CEC: 11.1

Application Description

	A	B
Application Date:	May-16-2013	Jun-14-2013
Time of Day:	AM	1 PM
Application Method:	SPRAY	SPRAY
Application Timing:	ATPLAN	EAPOCR
Application Placement:	SOIL	FOLIAR
Applied By:	MW	MW
Air Temperature, Unit:	68 F	83 F
% Relative Humidity:	73	54
Wind Velocity, Unit:	3 MPH	3.6 MPH
Wind Direction:	E	NW
Dew Presence (Y/N):	Y yes	N no
Soil Temperature, Unit:	68 F	84 F
Soil Moisture:	SLIWET	SLIWET
% Cloud Cover:	80	20

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		V3

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:		3 IN
Density, Unit:		15 FT2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:		7 IN
Density, Unit:		10 YD2
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:		2 IN
Density, Unit:		10 YD2

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Application Equipment

	A	B
Appl. Equipment:	CO2 FORD	CO2 FORD
Equipment Type:	SPTRMO	SPTRMO
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	XR 100 02	XR 100 02
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:	6	6
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	2.1 MPH	2.1 MPH
Carrier:	MEIGS	MEIGS
Spray Volume, Unit:	20 gal/ac	20 gal/ac
Mix Size, Unit:	2.5 liters	2.5 liters
Propellant:	CO2	CO2

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Trial ID: 13S-THP-CTS-42 Protocol ID: 13S-THP-CTS-42
 Location: Throckmorton Study Director:
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Reps: 4 Plots: 10 by 30 feet
 Spray vol: 20 gal/ac Mix size: 2.5 liters (min 2.0856)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Appl Description	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
1	UNTREATED													101	504	801	803
2	AUTHORITY ELITE	7 LB/GAL		EC	1.53 lb ai/a		28 oz/a		ATPLAN	A		27.32 ml/mx		102	303	601	902
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	0.77 lb ae/a		22 oz/a		EAPOCR	B	V1-V3 Soybean	21.39 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		EAPOCR	B	V1-V3 Soybean	62.49 ml/mx					
3	AUTHORITY ASSIST	4 LB/GAL		SC	3 oz ai/a		6 oz/a		ATPLAN	A		5.859 ml/mx		103	304	704	1001
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	0.77 lb ae/a		22 oz/a		EAPOCR	B	V1-V3 Soybean	21.39 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		EAPOCR	B	V1-V3 Soybean	62.49 ml/mx					
4	AUTHORITY MTZ	45 %W/W		WG	0.56 lb ai/a		20 oz/a		ATPLAN	A		18.64 g/mx		104	404	702	901
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	0.77 lb ae/a		22 oz/a		EAPOCR	B	V1-V3 Soybean	21.39 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		EAPOCR	B	V1-V3 Soybean	62.49 ml/mx					
5	PREFIX	5.29 LB/GAL		EC	1.32 lb ai/a		2 pt/a		ATPLAN	A		31.19 ml/mx		201	503	604	1003
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	0.77 lb ae/a		22 oz/a		EAPOCR	B	V1-V3 Soybean	21.39 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		EAPOCR	B	V1-V3 Soybean	62.49 ml/mx					
6	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a		1.76 oz/a		ATPLAN	A		1.652 g/mx		202	403	703	1004
	Classic	25 %AW/W		DF	0.309 oz ai/a		1.24 oz/a		ATPLAN	A		1.157 g/mx					
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	0.77 lb ae/a		22 oz/a		EAPOCR	B	V1-V3 Soybean	21.39 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		EAPOCR	B	V1-V3 Soybean	62.49 ml/mx					
7	ANTHEM	2.15 LB/GAL		SE	1.61 oz ai/a		6 oz/a		EAPOCR	B	V1-V3 Soybean	5.85 ml/mx		203	501	802	1002
	CLASSIC	25 %W/W		WG	0.187 oz ai/a		0.75 oz/a		EAPOCR	B	V1-V3 Soybean	0.7002 g/mx					
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	0.77 lb ae/a		22 oz/a		EAPOCR	B	V1-V3 Soybean	21.39 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		EAPOCR	B	V1-V3 Soybean	62.49 ml/mx					
8	AUTHORITY ELITE	7 LB/GAL		EC	1.53 lb ai/a		28 oz/a		ATPLAN	A		27.32 ml/mx		204	502	603	903
	ANTHEM	2.15 LB/GAL		SE	1.61 oz ai/a		6 oz/a		EAPOCR	B	V1-V3 Soybean	5.85 ml/mx					
	CLASSIC	25 %W/W		WG	0.187 oz ai/a		0.75 oz/a		EAPOCR	B	V1-V3 Soybean	0.7002 g/mx					
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	0.77 lb ae/a		22 oz/a		EAPOCR	B	V1-V3 Soybean	21.39 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		EAPOCR	B	V1-V3 Soybean	62.49 ml/mx					
9	AUTHORITY ASSIST	4 LB/GAL		SC	3 oz ai/a		6 oz/a		ATPLAN	A		5.859 ml/mx		301	402	701	804
	ANTHEM	2.15 LB/GAL		SE	1.61 oz ai/a		6 oz/a		EAPOCR	B	V1-V3 Soybean	5.85 ml/mx					
	CLASSIC	25 %W/W		WG	0.187 oz ai/a		0.75 oz/a		EAPOCR	B	V1-V3 Soybean	0.7002 g/mx					
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	0.77 lb ae/a		22 oz/a		EAPOCR	B	V1-V3 Soybean	21.39 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		EAPOCR	B	V1-V3 Soybean	62.49 ml/mx					
10	AUTHORITY MTZ	45 %W/W		WG	0.56 lb ai/a		20 oz/a		ATPLAN	A		18.64 g/mx		302	401	602	904
	ANTHEM	2.15 LB/GAL		SE	1.61 oz ai/a		6 oz/a		EAPOCR	B	V1-V3 Soybean	5.85 ml/mx					
	CLASSIC	25 %W/W		WG	0.187 oz ai/a		0.75 oz/a		EAPOCR	B	V1-V3 Soybean	0.7002 g/mx					
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	0.77 lb ae/a		22 oz/a		EAPOCR	B	V1-V3 Soybean	21.39 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		EAPOCR	B	V1-V3 Soybean	62.49 ml/mx					

Sort Order: Treatment

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Trial ID: 13S-THP-CTS-42 Protocol ID: 13S-THP-CTS-42
 Location: Throckmorton Study Director:
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Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL		SETSS	AMBTR
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>		Setaria sp.	Ambrosia trifi>
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>		Foxtail millet	Giant ragweed
Crop Code				GLXMA		
BBCB Scale				BSOY		
Crop Scientific Name				Glycine max		
Crop Name				Soybean		
Rating Date	May-30-2013	May-30-2013	May-30-2013	Jun-5-2013	Jun-5-2013	Jun-5-2013
Rating Type	CONTRO	CONTRO	CONTRO	PHYTO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V1	V1	V1			
Pest Stage Majority	1 IN	1-2 IN	0.5 IN			
Pest Density, Unit	5 YD2	7 YD2	3 YD2			
Assessed By	BM/GT	BM/GT	BM/GT			
Days After First/Last Applic.	14 14	14 14	14 14	20 20	20 20	20 20
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	20 DA-A	20 DA-A	20 DA-A
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	20 DP-1	20 DP-1	20 DP-1
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	14 DE-1	14 DE-1	14 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	1	2	3	4
1 UNTREATED		101	0.0	0.0	0.0	0.0
		504	0.0	0.0	0.0	0.0
		801	0.0	0.0	0.0	0.0
		803	0.0	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0	0.0
2 AUTHORITY ELITE	1.53 lb ai/a	A 102	99.0	70.0	99.0	0.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 303	97.0	85.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 601	99.0	90.0	99.0	0.0
		902	99.0	95.0	99.0	0.0
		Mean =	98.5	85.0	99.0	0.0
3 AUTHORITY ASSIST	3 oz ai/a	A 103	97.0	60.0	99.0	0.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 304	90.0	85.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 704	95.0	90.0	99.0	0.0
		1001	97.0	95.0	99.0	0.0
		Mean =	94.8	82.5	99.0	0.0
4 AUTHORITY MTZ	0.56 lb ai/a	A 104	97.0	50.0	99.0	0.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 404	97.0	75.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 702	97.0	90.0	99.0	0.0
		901	97.0	90.0	99.0	0.0
		Mean =	97.0	76.3	99.0	0.0
5 PREFIX	1.32 lb ai/a	A 201	99.0	85.0	99.0	0.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 503	97.0	80.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 604	97.0	95.0	99.0	0.0
		1003	97.0	90.0	97.0	0.0
		Mean =	97.5	87.5	98.5	0.0

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL		SETSS
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>		Setaria sp.
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>		Foxtail millet
Crop Code				GLXMA	
BBCH Scale				BSOY	
Crop Scientific Name				Glycine max	
Crop Name				Soybean	
Rating Date	May-30-2013	May-30-2013	May-30-2013	Jun-5-2013	Jun-5-2013
Rating Type	CONTRO	CONTRO	CONTRO	PHYTO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	V1	V1	V1		
Pest Stage Majority	1 IN	1-2 IN	0.5 IN		
Pest Density, Unit	5 YD2	7 YD2	3 YD2		
Assessed By	BM/GT	BM/GT	BM/GT		
Days After First/Last Applic.	14 14	14 14	14 14	20 20	20 20
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	20 DA-A	20 DA-A
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	20 DP-1	20 DP-1
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	14 DE-1	14 DE-1
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	1	2	3
6 Valor SX (51 WG)	0.9 oz ai/a	A 202	90.0	95.0	99.0
Classic	0.309 oz ai/a	A 403	95.0	95.0	99.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 703	85.0	95.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B 1004	50.0	95.0	99.0
		Mean =	80.0	95.0	99.0
7 ANTHEM	1.61 oz ai/a	B 203	90.0	85.0	99.0
CLASSIC	0.187 oz ai/a	B 501	95.0	90.0	99.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 802	97.0	70.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B 1002	65.0	80.0	99.0
		Mean =	86.8	81.3	99.0
8 AUTHORITY ELITE	1.53 lb ai/a	A 204	97.0	65.0	99.0
ANTHEM	1.61 oz ai/a	B 502	97.0	85.0	99.0
CLASSIC	0.187 oz ai/a	B 603	95.0	90.0	99.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 903	97.0	80.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B			
		Mean =	96.5	80.0	99.0
9 AUTHORITY ASSIST	3 oz ai/a	A 301	95.0	80.0	99.0
ANTHEM	1.61 oz ai/a	B 402	97.0	75.0	99.0
CLASSIC	0.187 oz ai/a	B 701	97.0	70.0	99.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 804	99.0	80.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B			
		Mean =	97.0	76.3	99.0
10 AUTHORITY MTZ	0.56 lb ai/a	A 302	90.0	85.0	99.0
ANTHEM	1.61 oz ai/a	B 401	97.0	90.0	99.0
CLASSIC	0.187 oz ai/a	B 602	99.0	85.0	99.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 904	97.0	90.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B			
		Mean =	95.8	87.5	99.0

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Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed		
Pest Code	SETFA	AMBTR	CHEAL		AMBTR	SETFA		
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>		Ambrosia trifi>	Setaria faberi		
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>		Giant ragweed	Giant foxtail		
Crop Code				GLXMA				
BBCB Scale				BSOY				
Crop Scientific Name				Glycine max				
Crop Name				Soybean				
Rating Date	Jun-14-2013	Jun-14-2013	Jun-14-2013	Jun-19-2013	Jun-19-2013	Jun-19-2013		
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	V3	V3	V3	V4	V4	V4		
Pest Stage Majority	3 IN	7 IN	2 IN					
Pest Density, Unit	15 FT2	10 YD2	10 YD2					
Assessed By	MW	MW	MW	JL	JL	JL		
Days After First/Last Applic.	29 29	29 29	29 29	34 5	34 5	34 5		
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	34 DA-A	34 DA-A	34 DA-A		
Plant-Eval Interval	29 DP-1	29 DP-1	29 DP-1	34 DP-1	34 DP-1	34 DP-1		
Days After Emergence	23 DE-1	23 DE-1	23 DE-1	28 DE-1	28 DE-1	28 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	7	8	9	10	11	12
1 UNTREATED		101	0.0	0.0	0.0	0.0	0.0	0.0
		504	0.0	0.0	0.0	0.0	0.0	0.0
		801	0.0	0.0	0.0	0.0	0.0	0.0
		803	0.0	0.0	0.0	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2 AUTHORITY ELITE	1.53 lb ai/a	A 102	99.0	0.0	99.0	0.0	10.0	100.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 303	95.0	20.0	99.0	0.0	15.0	100.0
AMS - Liquid	8.5 lb ai/100 gal	B 601	99.0	30.0	99.0	0.0	15.0	100.0
		902	97.0	20.0	99.0	0.0	25.0	100.0
		Mean =	97.5	17.5	99.0	0.0	16.3	100.0
3 AUTHORITY ASSIST	3 oz ai/a	A 103	90.0	40.0	99.0	0.0	30.0	100.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 304	80.0	50.0	99.0	0.0	10.0	70.0
AMS - Liquid	8.5 lb ai/100 gal	B 704	90.0	40.0	99.0	0.0	40.0	90.0
		1001	90.0	70.0	99.0	0.0	25.0	100.0
		Mean =	87.5	50.0	99.0	0.0	26.3	90.0
4 AUTHORITY MTZ	0.56 lb ai/a	A 104	85.0	0.0	99.0	0.0	20.0	100.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 404	95.0	10.0	99.0	10.0	30.0	100.0
AMS - Liquid	8.5 lb ai/100 gal	B 702	95.0	60.0	99.0	0.0	60.0	100.0
		901	95.0	60.0	99.0	0.0	50.0	100.0
		Mean =	92.5	32.5	99.0	2.5	40.0	100.0
5 PREFIX	1.32 lb ai/a	A 201	99.0	80.0	80.0	5.0	60.0	100.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 503	97.0	70.0	99.0	0.0	50.0	100.0
AMS - Liquid	8.5 lb ai/100 gal	B 604	99.0	80.0	99.0	5.0	40.0	100.0
		1003	95.0	65.0	80.0	0.0	50.0	100.0
		Mean =	97.5	73.8	89.5	2.5	50.0	100.0

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	CHEAL	AMBTR	SETFA			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Ambrosia trifi>	Setaria faberi			
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Giant ragweed	Giant foxtail			
Crop Code				GLXMA				
BBCH Scale				BSOY				
Crop Scientific Name				Glycine max				
Crop Name				Soybean				
Rating Date	Jun-14-2013	Jun-14-2013	Jun-14-2013	Jun-19-2013	Jun-19-2013			
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Crop Stage Majority	V3	V3	V3	V4	V4			
Pest Stage Majority	3 IN	7 IN	2 IN					
Pest Density, Unit	15 FT2	10 YD2	10 YD2					
Assessed By	MW	MW	MW	JL	JL			
Days After First/Last Applic.	29 29	29 29	29 29	34 5	34 5			
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	34 DA-A	34 DA-A			
Plant-Eval Interval	29 DP-1	29 DP-1	29 DP-1	34 DP-1	34 DP-1			
Days After Emergence	23 DE-1	23 DE-1	23 DE-1	28 DE-1	28 DE-1			
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	7	8	9	10	11	12
6 Valor SX (51 WG)	0.9 oz ai/a	A 202	85.0	75.0	99.0	5.0	25.0	80.0
Classic	0.309 oz ai/a	A 403	90.0	50.0	99.0	5.0	50.0	90.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 703	75.0	70.0	99.0	0.0	35.0	90.0
AMS - Liquid	8.5 lb ai/100 gal	B 1004	70.0	75.0	99.0	0.0	20.0	70.0
		Mean =	80.0	67.5	99.0	2.5	32.5	82.5
7 ANTHEM	1.61 oz ai/a	B 203	0.0	0.0	0.0	0.0	75.0	90.0
CLASSIC	0.187 oz ai/a	B 501	0.0	0.0	0.0	5.0	45.0	50.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 802	60.0	0.0	99.0	0.0	25.0	80.0
AMS - Liquid	8.5 lb ai/100 gal	B 1002	0.0	10.0	0.0	5.0	35.0	85.0
		Mean =	15.0	2.5	24.8	2.5	45.0	76.3
8 AUTHORITY ELITE	1.53 lb ai/a	A 204	97.0	20.0	99.0	0.0	50.0	100.0
ANTHEM	1.61 oz ai/a	B 502	99.0	20.0	99.0	5.0	55.0	100.0
CLASSIC	0.187 oz ai/a	B 603	97.0	65.0	99.0	15.0	50.0	100.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 903	95.0	40.0	99.0	5.0	40.0	100.0
AMS - Liquid	8.5 lb ai/100 gal	B						
		Mean =	97.0	36.3	99.0	6.3	48.8	100.0
9 AUTHORITY ASSIST	3 oz ai/a	A 301	90.0	40.0	99.0	5.0	50.0	100.0
ANTHEM	1.61 oz ai/a	B 402	95.0	10.0	99.0	0.0	60.0	100.0
CLASSIC	0.187 oz ai/a	B 701	90.0	20.0	99.0	5.0	70.0	100.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 804	95.0	10.0	99.0	0.0	60.0	100.0
AMS - Liquid	8.5 lb ai/100 gal	B						
		Mean =	92.5	20.0	99.0	2.5	60.0	100.0
10 AUTHORITY MTZ	0.56 lb ai/a	A 302	80.0	75.0	99.0	5.0	65.0	95.0
ANTHEM	1.61 oz ai/a	B 401	95.0	70.0	99.0	0.0	50.0	100.0
CLASSIC	0.187 oz ai/a	B 602	95.0	75.0	99.0	10.0	60.0	100.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 904	90.0	60.0	99.0	5.0	60.0	100.0
AMS - Liquid	8.5 lb ai/100 gal	B						
		Mean =	90.0	70.0	99.0	5.0	58.8	98.8

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Pest Type			W Weed AMBTR	W Weed SETFA				W Weed SETFA		
Pest Code			Ambrosia trifi>	Setaria faberi			Setaria faberi			
Pest Scientific Name			Giant ragweed	Giant foxtail			Giant foxtail			
Pest Name										
Crop Code	GLXMA				GLXMA	GLXMA	GLXMA			
BBCB Scale	BSOY				BSOY	BSOY	BSOY			
Crop Scientific Name	Glycine max				Glycine max	Glycine max	Glycine max			
Crop Name	Soybean				Soybean	Soybean	Soybean			
Rating Date	Jun-26-2013	Jun-26-2013	Jun-26-2013	Jun-26-2013	Jul-2-2013	Jul-2-2013	Jul-2-2013	Jul-12-2013		
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYSTU	PHYLMA	PHYCHL	CONTRO		
Rating Unit	%	%	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1	1	1		
Crop Stage Majority					V6	V6	V6			
Pest Stage Majority								32 IN		
Pest Density, Unit								20 FT2		
Assessed By	JL	JL	JL	JL	MW	MW	MW	MW		
Days After First/Last Applic.	41 12	41 12	41 12	41 12	47 18	47 18	47 18	57 28		
Trt-Eval Interval	41 DA-A	41 DA-A	41 DA-A	41 DA-A	47 DA-A	47 DA-A	47 DA-A	57 DA-A		
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1	41 DP-1	47 DP-1	47 DP-1	47 DP-1	57 DP-1		
Days After Emergence	35 DE-1	35 DE-1	35 DE-1	35 DE-1	41 DE-1	41 DE-1	41 DE-1	51 DE-1		
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code Plot	13	14	15	16	17	18	19	
1 UNTREATED		101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		504	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		801	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		803	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2 AUTHORITY ELITE	1.53 lb ai/a	A 102	0.0	65.0	100.0	10.0	0.0	0.0	99.0	
ROUNDUP POWERMAX	0.77 lb ae/a	B 303	0.0	55.0	100.0	0.0	0.0	0.0	99.0	
AMS - Liquid	8.5 lb ai/100 gal	B 601	0.0	65.0	100.0	15.0	0.0	0.0	99.0	
		902	0.0	60.0	100.0	5.0	0.0	0.0	99.0	
		Mean =	0.0	61.3	100.0	7.5	0.0	0.0	99.0	
3 AUTHORITY ASSIST	3 oz ai/a	A 103	0.0	70.0	100.0	0.0	0.0	0.0	99.0	
ROUNDUP POWERMAX	0.77 lb ae/a	B 304	0.0	60.0	100.0	0.0	0.0	0.0	99.0	
AMS - Liquid	8.5 lb ai/100 gal	B 704	0.0	60.0	100.0	0.0	0.0	0.0	99.0	
		1001	0.0	90.0	100.0	0.0	0.0	0.0	99.0	
		Mean =	0.0	70.0	100.0	0.0	0.0	0.0	99.0	
4 AUTHORITY MTZ	0.56 lb ai/a	A 104	0.0	60.0	100.0	0.0	0.0	0.0	99.0	
ROUNDUP POWERMAX	0.77 lb ae/a	B 404	0.0	70.0	100.0	5.0	0.0	3.0	95.0	
AMS - Liquid	8.5 lb ai/100 gal	B 702	0.0	85.0	100.0	0.0	0.0	0.0	99.0	
		901	0.0	70.0	100.0	0.0	3.0	0.0	97.0	
		Mean =	0.0	71.3	100.0	1.3	0.8	0.8	97.5	
5 PREFIX	1.32 lb ai/a	A 201	0.0	95.0	100.0	0.0	5.0	0.0	99.0	
ROUNDUP POWERMAX	0.77 lb ae/a	B 503	0.0	90.0	100.0	0.0	0.0	3.0	99.0	
AMS - Liquid	8.5 lb ai/100 gal	B 604	0.0	90.0	100.0	0.0	0.0	0.0	99.0	
		1003	0.0	95.0	100.0	0.0	0.0	0.0	99.0	
		Mean =	0.0	92.5	100.0	0.0	1.3	0.8	99.0	

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Pest Type		W Weed	W Weed			W Weed
Pest Code		AMBTR	SETFA			SETFA
Pest Scientific Name		Ambrosia trifi>	Setaria faberi			Setaria faberi
Pest Name		Giant ragweed	Giant foxtail			Giant foxtail
Crop Code	GLXMA			GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY			BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max			Glycine max	Glycine max	Glycine max
Crop Name	Soybean			Soybean	Soybean	Soybean
Rating Date	Jun-26-2013	Jun-26-2013	Jun-26-2013	Jul-2-2013	Jul-2-2013	Jul-2-2013
Rating Type	PHYGEN	CONTRO	CONTRO	PHYSTU	PHYLMA	PHYCHL
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority				V6	V6	V6
Pest Stage Majority						32 IN
Pest Density, Unit						20 FT2
Assessed By	Jl	Jl	Jl	MW	MW	MW
Days After First/Last Applic.	41 12	41 12	41 12	47 18	47 18	47 18
Trt-Eval Interval	41 DA-A	41 DA-A	41 DA-A	47 DA-A	47 DA-A	47 DA-A
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1	47 DP-1	47 DP-1	47 DP-1
Days After Emergence	35 DE-1	35 DE-1	35 DE-1	41 DE-1	41 DE-1	41 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	13	14	15	16
6 Valor SX (51 WG)	0.9 oz ai/a	A 202	0.0	90.0	95.0	0.0
Classic	0.309 oz ai/a	A 403	0.0	90.0	100.0	0.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 703	0.0	75.0	100.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 1004	0.0	65.0	100.0	0.0
		Mean =	0.0	80.0	98.8	0.0
7 ANTHEM	1.61 oz ai/a	B 203	5.0	90.0	100.0	3.0
CLASSIC	0.187 oz ai/a	B 501	5.0	85.0	100.0	10.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 802	5.0	85.0	100.0	15.0
AMS - Liquid	8.5 lb ai/100 gal	B 1002	5.0	70.0	100.0	5.0
		Mean =	5.0	82.5	100.0	8.3
8 AUTHORITY ELITE	1.53 lb ai/a	A 204	5.0	80.0	100.0	5.0
ANTHEM	1.61 oz ai/a	B 502	10.0	80.0	100.0	10.0
CLASSIC	0.187 oz ai/a	B 603	10.0	80.0	100.0	15.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 903	5.0	75.0	100.0	5.0
AMS - Liquid	8.5 lb ai/100 gal	B				
		Mean =	7.5	78.8	100.0	8.8
9 AUTHORITY ASSIST	3 oz ai/a	A 301	5.0	60.0	100.0	5.0
ANTHEM	1.61 oz ai/a	B 402	5.0	90.0	100.0	5.0
CLASSIC	0.187 oz ai/a	B 701	5.0	90.0	100.0	10.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 804	5.0	80.0	100.0	15.0
AMS - Liquid	8.5 lb ai/100 gal	B				
		Mean =	5.0	80.0	100.0	8.8
10 AUTHORITY MTZ	0.56 lb ai/a	A 302	5.0	65.0	100.0	0.0
ANTHEM	1.61 oz ai/a	B 401	5.0	85.0	100.0	10.0
CLASSIC	0.187 oz ai/a	B 602	5.0	85.0	100.0	15.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 904	5.0	90.0	100.0	3.0
AMS - Liquid	8.5 lb ai/100 gal	B				
		Mean =	5.0	81.3	100.0	7.0

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Pest Type		W Weed	W Weed		
Pest Code		AMBTR	CHEAL		
Pest Scientific Name		Ambrosia trifi>	Chenopodium al>		
Pest Name		Giant ragweed	Common lambsqu>		
Crop Code				GLXMA	GLXMA
BBCB Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date		Jul-12-2013	Jul-12-2013	Jul-12-2013	Sep-24-2013
Rating Type		CONTRO	CONTRO	'PHYSTU	YIELD
Rating Unit		%	%	%	bu/ac
Number of Subsamples		1	1	1	1
Crop Stage Majority				R1	
Pest Stage Majority		60 IN	26 IN		
Pest Density, Unit		8 YD2	10 YD2		
Assessed By		MW	MW	MW	
Days After First/Last Applic.		57 28	57 28	57 28	131 102
Trt-Eval Interval		57 DA-A	57 DA-A	57 DA-A	
Plant-Eval Interval		57 DP-1	57 DP-1	57 DP-1	131 DP-1
Days After Emergence		51 DE-1	51 DE-1	51 DE-1	125 DE-1
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	20	21	22
1 UNTREATED		101	0.0	0.0	0.0
		504	0.0	0.0	0.0
		801	0.0	0.0	0.0
		803	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0
2 AUTHORITY ELITE	1.53 lb ai/a	A 102	70.0	99.0	5.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 303	85.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 601	80.0	99.0	5.0
		902	85.0	99.0	3.0
		Mean =	80.0	99.0	3.3
3 AUTHORITY ASSIST	3 oz ai/a	A 103	80.0	99.0	0.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 304	90.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 704	90.0	99.0	0.0
		1001	95.0	99.0	0.0
		Mean =	88.8	99.0	0.0
4 AUTHORITY MTZ	0.56 lb ai/a	A 104	83.0	99.0	0.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 404	90.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 702	90.0	99.0	0.0
		901	87.0	99.0	0.0
		Mean =	87.5	99.0	0.0
5 PREFIX	1.32 lb ai/a	A 201	97.0	99.0	0.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 503	97.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 604	93.0	99.0	0.0
		1003	95.0	99.0	0.0
		Mean =	95.5	99.0	0.0

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Pest Type	W Weed	W Weed		
Pest Code	AMBTR	CHEAL		
Pest Scientific Name	Ambrosia trif>	Chenopodium al>		
Pest Name	Giant ragweed	Common lambsqu>		
Crop Code			GLXMA	GLXMA
BBCH Scale			BSOY	BSOY
Crop Scientific Name			Glycine max	Glycine max
Crop Name			Soybean	Soybean
Rating Date	Jul-12-2013	Jul-12-2013	Jul-12-2013	Sep-24-2013
Rating Type	CONTRO	CONTRO	'PHYSTU	YIELD
Rating Unit	%	%	%	bu/ac
Number of Subsamples	1	1	1	1
Crop Stage Majority			R1	
Pest Stage Majority	60 IN	26 IN		
Pest Density, Unit	8 YD2	10 YD2		
Assessed By	MW	MW	MW	
Days After First/Last Applic.	57 28	57 28	57 28	131 102
Trt-Eval Interval	57 DA-A	57 DA-A	57 DA-A	
Plant-Eval Interval	57 DP-1	57 DP-1	57 DP-1	131 DP-1
Days After Emergence	51 DE-1	51 DE-1	51 DE-1	125 DE-1
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	20	21
6 Valor SX (51 WG)	0.9 oz ai/a	A 202	93.0	93.0
Classic	0.309 oz ai/a	A 403	85.0	99.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 703	90.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B 1004	87.0	99.0
		Mean =	88.8	97.5
7 ANTHEM	1.61 oz ai/a	B 203	87.0	99.0
CLASSIC	0.187 oz ai/a	B 501	85.0	99.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 802	73.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B 1002	85.0	99.0
		Mean =	82.5	99.0
8 AUTHORITY ELITE	1.53 lb ai/a	A 204	85.0	99.0
ANTHEM	1.61 oz ai/a	B 502	77.0	99.0
CLASSIC	0.187 oz ai/a	B 603	85.0	99.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 903	80.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B		
		Mean =	81.8	99.0
9 AUTHORITY ASSIST	3 oz ai/a	A 301	75.0	99.0
ANTHEM	1.61 oz ai/a	B 402	80.0	99.0
CLASSIC	0.187 oz ai/a	B 701	83.0	99.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 804	83.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B		
		Mean =	80.3	99.0
10 AUTHORITY MTZ	0.56 lb ai/a	A 302	87.0	99.0
ANTHEM	1.61 oz ai/a	B 401	85.0	99.0
CLASSIC	0.187 oz ai/a	B 602	77.0	99.0
ROUNDUP POWERMAX	0.77 lb ae/a	B 904	85.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B		
		Mean =	83.5	99.0

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2013/SOYBEAN/AUTHORITY/ANTHEM/LL/RR

Trial ID: 13S-THP-CTS-42 Protocol ID: 13S-THP-CTS-42
 Location: Throckmorton Study Director:
 Project ID: SULF.SOY.13.JPR.05 (b) Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC - Joe Reed

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US
 AMBTR, Ambrosia trifida, = US
 CHEAL, Chenopodium album, = US
 SETSS, Setaria sp., = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

CONTRO = control / burndown or knockdown
 PHYGEN = phytotoxicity - general / injury
 PHYSTU = phytotoxicity - stunting
 PHYLMA = phytotoxicity - leaf malformation
 PHYCHL = phytotoxicity - chlorosis
 YIELD = yield

Rating Unit

% = percent
 bu/ac = bushels per acre

YD2 = per square yard

FT2 = per square foot

Plant-Eval Interval

14 DP-1 = 1 GLXMA May-16-2013
 20 DP-1 = 1 GLXMA May-16-2013
 29 DP-1 = 1 GLXMA May-16-2013
 34 DP-1 = 1 GLXMA May-16-2013
 41 DP-1 = 1 GLXMA May-16-2013
 47 DP-1 = 1 GLXMA May-16-2013
 57 DP-1 = 1 GLXMA May-16-2013
 131 DP-1 = 1 GLXMA May-16-2013

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2013/SOYBEAN/AUTHORITY/ANTHEM/LL/RR

Trial ID: 13S-THP-CTS-42 Protocol ID: 13S-THP-CTS-42
 Location: Throckmorton Study Director:
 Project ID: SULF.SOY.13.JPR.05 (b) Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC - Joe Reed

Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL		SETSS	AMBTR	SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>		Setaria sp.	Ambrosia trifi>	Setaria faberi
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>		Foxtail millet	Giant ragweed	Giant foxtail
Crop Code				GLXMA			
BBCH Scale				BSOY			
Crop Scientific Name				Glycine max			
Crop Name				Soybean			
Rating Date	May-30-2013	May-30-2013	May-30-2013	Jun-5-2013	Jun-5-2013	Jun-5-2013	Jun-14-2013
Rating Type	CONTRO	CONTRO	CONTRO	PHYTO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority	V1	V1	V1				
Pest Stage Majority	1 IN	1-2 IN	0.5 IN				
Pest Density, Unit	5 YD2	7 YD2	3 YD2				15 FT2
Assessed By	BM/GT	BM/GT	BM/GT				MW
Days After First/Last Applic.	14 14	14 14	14 14	20 20	20 20	20 20	29 29
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	20 DA-A	20 DA-A	20 DA-A	29 DA-A
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	20 DP-1	20 DP-1	20 DP-1	29 DP-1
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	14 DE-1	14 DE-1	14 DE-1	23 DE-1
Trt Treatment							
No. Name	1	2	3	4	5	6	7
1 UNTREATED	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	0.0 d	0.0 b
2 AUTHORITY ELITE	98.5 a	85.0 a	99.0 a	0.0 b	97.5 a	17.5 bcd	97.5 a
ROUNDUP POWERMAX	1.53 lb ai/a A						
AMS - Liquid	0.77 lb ae/a B						
AMS - Liquid	8.5 lb ai/100 gal B						
3 AUTHORITY ASSIST	94.8 a	82.5 a	99.0 a	0.0 b	81.3 a	35.0 abc	87.5 a
ROUNDUP POWERMAX	3 oz ai/a A						
AMS - Liquid	0.77 lb ae/a B						
AMS - Liquid	8.5 lb ai/100 gal B						
4 AUTHORITY MTZ	97.0 a	76.3 a	99.0 a	0.0 b	96.3 a	35.0 abc	92.5 a
ROUNDUP POWERMAX	0.56 lb ai/a A						
AMS - Liquid	0.77 lb ae/a B						
AMS - Liquid	8.5 lb ai/100 gal B						
5 PREFIX	97.5 a	87.5 a	98.5 a	0.0 b	100.0 a	55.0 a	97.5 a
ROUNDUP POWERMAX	1.32 lb ai/a A						
AMS - Liquid	0.77 lb ae/a B						
AMS - Liquid	8.5 lb ai/100 gal B						
6 Valor SX (51 WG)	80.0 a	95.0 a	99.0 a	3.8 a	73.8 a	52.5 a	80.0 a
Classic	0.9 oz ai/a A						
ROUNDUP POWERMAX	0.309 oz ai/a A						
AMS - Liquid	0.77 lb ae/a B						
AMS - Liquid	8.5 lb ai/100 gal B						
7 ANTHEM	86.8 a	81.3 a	99.0 a	0.0 b	0.0 b	3.8 cd	15.0 b
CLASSIC	1.61 oz ai/a B						
ROUNDUP POWERMAX	0.187 oz ai/a B						
AMS - Liquid	0.77 lb ae/a B						
AMS - Liquid	8.5 lb ai/100 gal B						
8 AUTHORITY ELITE	96.5 a	80.0 a	99.0 a	0.0 b	77.5 a	27.5 a-d	97.0 a
ANTHEM	1.53 lb ai/a A						
CLASSIC	1.61 oz ai/a B						
ROUNDUP POWERMAX	0.187 oz ai/a B						
AMS - Liquid	0.77 lb ae/a B						
AMS - Liquid	8.5 lb ai/100 gal B						
9 AUTHORITY ASSIST	97.0 a	76.3 a	99.0 a	0.0 b	90.0 a	10.0 bcd	92.5 a
ANTHEM	3 oz ai/a A						
CLASSIC	1.61 oz ai/a B						
ROUNDUP POWERMAX	0.187 oz ai/a B						
AMS - Liquid	0.77 lb ae/a B						
AMS - Liquid	8.5 lb ai/100 gal B						

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL		SETSS	AMBTR	SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>		Setaria sp.	Ambrosia trifi>	Setaria faberi
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>		Foxtail millet	Giant ragweed	Giant foxtail
Crop Code				GLXMA			
BBCH Scale				BSOY			
Crop Scientific Name				Glycine max			
Crop Name				Soybean			
Rating Date	May-30-2013	May-30-2013	May-30-2013	Jun-5-2013	Jun-5-2013	Jun-5-2013	Jun-14-2013
Rating Type	CONTRO	CONTRO	CONTRO	PHYTO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority	V1	V1	V1				V3
Pest Stage Majority	1 IN	1-2 IN	0.5 IN				3 IN
Pest Density, Unit	5 YD2	7 YD2	3 YD2				15 FT2
Assessed By	BM/GT	BM/GT	BM/GT				MW
Days After First/Last Applic.	14 14	14 14	14 14	20 20	20 20	20 20	29 29
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	20 DA-A	20 DA-A	20 DA-A	29 DA-A
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	20 DP-1	20 DP-1	20 DP-1	29 DP-1
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	14 DE-1	14 DE-1	14 DE-1	23 DE-1
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code	1	2	3	4	5
10 AUTHORITY MTZ	0.56 lb ai/a	A	95.8 a	87.5 a	99.0 a	0.0 b	92.5 a
ANTHEM	1.61 oz ai/a	B					38.8 ab
CLASSIC	0.187 oz ai/a	B					
ROUNDUP POWERMAX	0.77 lb ae/a	B					
AMS - Liquid	8.5 lb ai/100 gal	B					90.0 a
LSD (P=.05)			11.58	12.78	0.46	1.15	24.22
Standard Deviation			7.98	8.81	0.32	0.79	16.69
CV			9.46	11.72	0.36	210.82	23.55
Bartlett's X2			49.262	11.829	0.0	0.0	20.092
P(Bartlett's X2)			0.001*	0.106	.	.	0.003*
Replicate F			1.480	3.596	1.000	1.000	0.965
Replicate Prob(F)			0.2423	0.0263	0.4079	0.4079	0.4235
Treatment F			57.326	37.591	39161.004	9.000	21.117
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed		W Weed	W Weed		W Weed
Pest Code	AMBTR	CHEAL		AMBTR	SETFA		AMBTR
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>		Ambrosia trifi>	Setaria faberi		Ambrosia trifi>
Pest Name	Giant ragweed	Common lambsqu>		Giant ragweed	Giant foxtail		Giant ragweed
Crop Code			GLXMA			GLXMA	
BBCB Scale			BSOY			BSOY	
Crop Scientific Name			Glycine max			Glycine max	
Crop Name			Soybean			Soybean	
Rating Date	Jun-14-2013	Jun-14-2013	Jun-19-2013	Jun-19-2013	Jun-19-2013	Jun-26-2013	Jun-26-2013
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority	V3	V3	V4	V4	V4	V4	V4
Pest Stage Majority	7 IN	2 IN					
Pest Density, Unit	10 YD2	10 YD2					
Assessed By	MW	MW	Jl	Jl	Jl	Jl	Jl
Days After First/Last Applic.	29 29	29 29	34 5	34 5	34 5	41 12	41 12
Trt-Eval Interval	29 DA-A	29 DA-A	34 DA-A	34 DA-A	34 DA-A	41 DA-A	41 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1	34 DP-1	34 DP-1	34 DP-1	41 DP-1	41 DP-1
Days After Emergence	23 DE-1	23 DE-1	28 DE-1	28 DE-1	28 DE-1	35 DE-1	35 DE-1
Trt Treatment							
No. Name	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit
8	9	10	11	12	13	14	
1 UNTREATED	0.0 d	0.0 c	0.0 a	0.0 d	0.0 c	0.0 c	0.0 c
2 AUTHORITY ELITE	1.53 lb ai/a A	17.5 cd	99.0 a	0.0 a	16.3 cd	100.0 a	0.0 c
ROUNDUP POWERMAX	0.77 lb ae/a B						61.3 b
AMS - Liquid	8.5 lb ai/100 gal B						
3 AUTHORITY ASSIST	3 oz ai/a A	50.0 ab	99.0 a	0.0 a	26.3 bc	90.0 ab	0.0 c
ROUNDUP POWERMAX	0.77 lb ae/a B						70.0 ab
AMS - Liquid	8.5 lb ai/100 gal B						
4 AUTHORITY MTZ	0.56 lb ai/a A	32.5 bc	99.0 a	2.5 a	40.0 abc	100.0 a	0.0 c
ROUNDUP POWERMAX	0.77 lb ae/a B						71.3 ab
AMS - Liquid	8.5 lb ai/100 gal B						
5 PREFIX	1.32 lb ai/a A	73.8 a	89.5 a	2.5 a	50.0 ab	100.0 a	0.0 c
ROUNDUP POWERMAX	0.77 lb ae/a B						92.5 a
AMS - Liquid	8.5 lb ai/100 gal B						
6 Valor SX (51 WG)	0.9 oz ai/a A	67.5 a	99.0 a	2.5 a	32.5 abc	82.5 ab	0.0 c
Classic	0.309 oz ai/a A						80.0 ab
ROUNDUP POWERMAX	0.77 lb ae/a B						
AMS - Liquid	8.5 lb ai/100 gal B						
7 ANTHEM	1.61 oz ai/a B	2.5 d	24.8 b	2.5 a	45.0 ab	76.3 b	5.0 b
CLASSIC	0.187 oz ai/a B						82.5 ab
ROUNDUP POWERMAX	0.77 lb ae/a B						
AMS - Liquid	8.5 lb ai/100 gal B						
8 AUTHORITY ELITE	1.53 lb ai/a A	36.3 bc	99.0 a	6.3 a	48.8 ab	100.0 a	7.5 a
ANTHEM	1.61 oz ai/a B						78.8 ab
CLASSIC	0.187 oz ai/a B						
ROUNDUP POWERMAX	0.77 lb ae/a B						
AMS - Liquid	8.5 lb ai/100 gal B						
9 AUTHORITY ASSIST	3 oz ai/a A	20.0 cd	99.0 a	2.5 a	60.0 a	100.0 a	5.0 b
ANTHEM	1.61 oz ai/a B						80.0 ab
CLASSIC	0.187 oz ai/a B						
ROUNDUP POWERMAX	0.77 lb ae/a B						
AMS - Liquid	8.5 lb ai/100 gal B						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	CHEAL		AMBTR	SETFA	AMBTR			
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>		Ambrosia trifi>	Setaria faberi	Ambrosia trifi>			
Pest Name	Giant ragweed	Common lambsqu>		Giant ragweed	Giant foxtail	Giant ragweed			
Crop Code			GLXMA			GLXMA			
BBCH Scale			BSOY			BSOY			
Crop Scientific Name			Glycine max			Glycine max			
Crop Name			Soybean			Soybean			
Rating Date	Jun-14-2013	Jun-14-2013	Jun-19-2013	Jun-19-2013	Jun-19-2013	Jun-26-2013			
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority	V3	V3	V4	V4	V4				
Pest Stage Majority	7 IN	2 IN							
Pest Density, Unit	10 YD2	10 YD2							
Assessed By	MW	MW	JL	JL	JL	JL			
Days After First/Last Applic.	29 29	29 29	34 5	34 5	34 5	41 12			
Trt-Eval Interval	29 DA-A	29 DA-A	34 DA-A	34 DA-A	34 DA-A	41 DA-A			
Plant-Eval Interval	29 DP-1	29 DP-1	34 DP-1	34 DP-1	34 DP-1	41 DP-1			
Days After Emergence	23 DE-1	23 DE-1	28 DE-1	28 DE-1	28 DE-1	35 DE-1			
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	8	9	10	11	12	13	14
10 AUTHORITY MTZ	0.56 lb ai/a	A	70.0 a	99.0 a	5.0 a	58.8 a	98.8 a	5.0 b	81.3 ab
ANTHEM	1.61 oz ai/a	B							
CLASSIC	0.187 oz ai/a	B							
ROUNDUP POWERMAX	0.77 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
LSD (P=.05)			20.97	22.95	5.01	17.84	11.41	1.32	14.20
Standard Deviation			14.45	15.81	3.45	12.30	7.86	0.91	9.79
CV			39.05	19.59	145.38	32.57	9.28	40.57	14.04
Bartlett's X2			13.949	5.085	3.836	10.128	7.928	0.0	13.313
P(Bartlett's X2)			0.083	0.024*	0.699	0.256	0.048*	.	0.102
Replicate F			2.075	1.279	0.612	0.149	1.037	1.000	0.304
Replicate Prob(F)			0.1270	0.3017	0.6133	0.9296	0.3918	0.4079	0.8220
Treatment F			14.449	21.440	1.450	9.735	62.129	43.000	28.026
Treatment Prob(F)			0.0001	0.0001	0.2166	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed				W Weed	W Weed	W Weed		
Pest Code	SETFA				SETFA	AMBTR	CHEAL		
Pest Scientific Name	Setaria faberi				Setaria faberi	Ambrosia trifi>	Chenopodium al>		
Pest Name	Giant foxtail				Giant foxtail	Giant ragweed	Common lambsqu>		
Crop Code		GLXMA	GLXMA	GLXMA					
BBCB Scale		BSOY	BSOY	BSOY					
Crop Scientific Name		Glycine max	Glycine max	Glycine max					
Crop Name		Soybean	Soybean	Soybean					
Rating Date	Jun-26-2013	Jul-2-2013	Jul-2-2013	Jul-2-2013	Jul-12-2013	Jul-12-2013	Jul-12-2013		
Rating Type	CONTRO	PHYSTU	PHYLMA	PHYCHL	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1	1		
Crop Stage Majority		V6	V6	V6					
Pest Stage Majority					32 IN	60 IN	26 IN		
Pest Density, Unit					20 FT2	8 YD2	10 YD2		
Assessed By	JL	MW	MW	MW	MW	MW	MW		
Days After First/Last Applic.	41 12	47 18	47 18	47 18	57 28	57 28	57 28		
Trt-Eval Interval	41 DA-A	47 DA-A	47 DA-A	47 DA-A	57 DA-A	57 DA-A	57 DA-A		
Plant-Eval Interval	41 DP-1	47 DP-1	47 DP-1	47 DP-1	57 DP-1	57 DP-1	57 DP-1		
Days After Emergence	35 DE-1	41 DE-1	41 DE-1	41 DE-1	51 DE-1	51 DE-1	51 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	15	16	17	18	19	20	21
1 UNTREATED			0.0 b	0.0 a	0.0 c	0.0 a	0.0 b	0.0 c	0.0 b
2 AUTHORITY ELITE	1.53 lb ai/a	A	100.0 a	7.5 a	0.0 c	0.0 a	99.0 a	80.0 b	99.0 a
ROUNDUP POWERMAX	0.77 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
3 AUTHORITY ASSIST	3 oz ai/a	A	100.0 a	0.0 a	0.0 c	0.0 a	99.0 a	88.8 ab	99.0 a
ROUNDUP POWERMAX	0.77 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
4 AUTHORITY MTZ	0.56 lb ai/a	A	100.0 a	1.3 a	0.8 c	0.8 a	97.5 a	87.5 ab	99.0 a
ROUNDUP POWERMAX	0.77 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
5 PREFIX	1.32 lb ai/a	A	100.0 a	0.0 a	1.3 c	0.8 a	99.0 a	95.5 a	99.0 a
ROUNDUP POWERMAX	0.77 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
6 Valor SX (51 WG)	0.9 oz ai/a	A	98.8 a	0.0 a	2.0 bc	0.8 a	95.8 a	88.8 ab	97.5 a
Classic	0.309 oz ai/a	A							
ROUNDUP POWERMAX	0.77 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
7 ANTHEM	1.61 oz ai/a	B	100.0 a	8.3 a	4.0 ab	2.0 a	98.0 a	82.5 b	99.0 a
CLASSIC	0.187 oz ai/a	B							
ROUNDUP POWERMAX	0.77 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
8 AUTHORITY ELITE	1.53 lb ai/a	A	100.0 a	8.8 a	5.5 a	1.3 a	99.0 a	81.8 b	99.0 a
ANTHEM	1.61 oz ai/a	B							
CLASSIC	0.187 oz ai/a	B							
ROUNDUP POWERMAX	0.77 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
9 AUTHORITY ASSIST	3 oz ai/a	A	100.0 a	8.8 a	4.0 ab	2.0 a	99.0 a	80.3 b	99.0 a
ANTHEM	1.61 oz ai/a	B							
CLASSIC	0.187 oz ai/a	B							
ROUNDUP POWERMAX	0.77 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							

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Pest Type	W Weed				W Weed	W Weed	W Weed		
Pest Code	SETFA				SETFA	AMBTR	CHEAL		
Pest Scientific Name	Setaria faberi				Setaria faberi	Ambrosia trifi>	Chenopodium al>		
Pest Name	Giant foxtail				Giant foxtail	Giant ragweed	Common lambsqu>		
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	Jun-26-2013	Jul-2-2013	Jul-2-2013	Jul-2-2013	Jul-12-2013	Jul-12-2013	Jul-12-2013		
Rating Type	CONTRO	PHYSTU	PHYLMA	PHYCHL	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1	1		
Crop Stage Majority		V6	V6	V6					
Pest Stage Majority					32 IN	60 IN	26 IN		
Pest Density, Unit					20 FT2	8 YD2	10 YD2		
Assessed By	JL	MW	MW	MW	MW	MW	MW		
Days After First/Last Applic.	41 12	47 18	47 18	47 18	57 28	57 28	57 28		
Trt-Eval Interval	41 DA-A	47 DA-A	47 DA-A	47 DA-A	57 DA-A	57 DA-A	57 DA-A		
Plant-Eval Interval	41 DP-1	47 DP-1	47 DP-1	47 DP-1	57 DP-1	57 DP-1	57 DP-1		
Days After Emergence	35 DE-1	41 DE-1	41 DE-1	41 DE-1	51 DE-1	51 DE-1	51 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	15	16	17	18	19	20	21
10 AUTHORITY MTZ	0.56 lb ai/a	A	100.0 a	7.0 a	5.0 a	1.3 a	97.5 a	83.5 b	99.0 a
ANTHEM	1.61 oz ai/a	B							
CLASSIC	0.187 oz ai/a	B							
ROUNDUP POWERMAX	0.77 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
LSD (P=.05)			1.15	5.47	2.06	2.60	2.40	6.73	1.38
Standard Deviation			0.79	3.77	1.42	1.79	1.65	4.64	0.95
CV			0.88	90.77	62.97	204.53	1.87	6.04	1.07
Bartlett's X2			0.0	2.812	4.58	2.206	3.21	6.364	0.0
P(Bartlett's X2)			.	0.729	0.599	0.90	0.36	0.607	.
Replicate F			1.000	2.887	1.378	0.757	1.842	0.621	1.000
Replicate Prob(F)			0.4079	0.0539	0.2706	0.5279	0.1635	0.6073	0.4079
Treatment F			6383.223	4.879	9.465	0.716	1415.105	139.894	4342.334
Treatment Prob(F)			0.0001	0.0006	0.0001	0.6902	0.0001	0.0001	0.0001

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Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Code	GLXMA	GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	Jul-12-2013	Sep-24-2013	
Rating Type	'PHYSTU	YIELD	
Rating Unit	%	bu/ac	
Number of Subsamples	1	1	
Crop Stage Majority	R1		
Pest Stage Majority			
Pest Density, Unit			
Assessed By	MW		
Days After First/Last Applic.	57 28	131 102	
Trt-Eval Interval	57 DA-A		
Plant-Eval Interval	57 DP-1	131 DP-1	
Days After Emergence	51 DE-1	125 DE-1	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
22		23	
1 UNTREATED			0.0 a 1.28 b
2 AUTHORITY ELITE	1.53 lb ai/a A		3.3 a 62.75 a
ROUNDUP POWERMAX	0.77 lb ae/a B		
AMS - Liquid	8.5 lb ai/100 gal B		
3 AUTHORITY ASSIST	3 oz ai/a A		0.0 a 79.18 a
ROUNDUP POWERMAX	0.77 lb ae/a B		
AMS - Liquid	8.5 lb ai/100 gal B		
4 AUTHORITY MTZ	0.56 lb ai/a A		0.0 a 68.35 a
ROUNDUP POWERMAX	0.77 lb ae/a B		
AMS - Liquid	8.5 lb ai/100 gal B		
5 PREFIX	1.32 lb ai/a A		0.0 a 88.45 a
ROUNDUP POWERMAX	0.77 lb ae/a B		
AMS - Liquid	8.5 lb ai/100 gal B		
6 Valor SX (51 WG)	0.9 oz ai/a A		0.0 a 80.58 a
Classic	0.309 oz ai/a A		
ROUNDUP POWERMAX	0.77 lb ae/a B		
AMS - Liquid	8.5 lb ai/100 gal B		
7 ANTHEM	1.61 oz ai/a B		2.0 a 64.70 a
CLASSIC	0.187 oz ai/a B		
ROUNDUP POWERMAX	0.77 lb ae/a B		
AMS - Liquid	8.5 lb ai/100 gal B		
8 AUTHORITY ELITE	1.53 lb ai/a A		8.8 a 68.18 a
ANTHEM	1.61 oz ai/a B		
CLASSIC	0.187 oz ai/a B		
ROUNDUP POWERMAX	0.77 lb ae/a B		
AMS - Liquid	8.5 lb ai/100 gal B		
9 AUTHORITY ASSIST	3 oz ai/a A		0.8 a 66.48 a
ANTHEM	1.61 oz ai/a B		
CLASSIC	0.187 oz ai/a B		
ROUNDUP POWERMAX	0.77 lb ae/a B		
AMS - Liquid	8.5 lb ai/100 gal B		

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Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Code	GLXMA	GLXMA		
BBCH Scale	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max		
Crop Name	Soybean	Soybean		
Rating Date	Jul-12-2013	Sep-24-2013		
Rating Type	'PHYSTU	YIELD		
Rating Unit	%	bu/ac		
Number of Subsamples	1	1		
Crop Stage Majority	R1			
Pest Stage Majority				
Pest Density, Unit				
Assessed By	MW			
Days After First/Last Applic.	57 28	131 102		
Trt-Eval Interval	57 DA-A			
Plant-Eval Interval	57 DP-1	131 DP-1		
Days After Emergence	51 DE-1	125 DE-1		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	22	23
10 AUTHORITY MTZ	0.56 lb ai/a	A	1.3 a	66.53 a
ANTHEM	1.61 oz ai/a	B		
CLASSIC	0.187 oz ai/a	B		
ROUNDUP POWERMAX	0.77 lb ae/a	B		
AMS - Liquid	8.5 lb ai/100 gal	B		
LSD (P=.05)			6.73	15.776
Standard Deviation			4.64	10.872
CV			289.98	16.82
Bartlett's X2			21.585	14.436
P(Bartlett's X2)			0.001*	0.108
Replicate F			1.514	2.179
Replicate Prob(F)			0.2333	0.1137
Treatment F			1.397	19.115
Treatment Prob(F)			0.2383	0.0001

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2013/SOYBEAN/AUTHORITY/ANTHEM/LL/RR

Trial ID: 13S-THP-CTS-42 Protocol ID: 13S-THP-CTS-42
 Location: Throckmorton Study Director:
 Project ID: SULF.SOY.13.JPR.05 (b) Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC - Joe Reed

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, = US
 AMBTR, Ambrosia trifida, = US
 CHEAL, Chenopodium album, = US
 SETSS, Setaria sp., = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

CONTRO = control / burndown or knockdown
 PHYGEN = phytotoxicity - general / injury
 PHYSTU = phytotoxicity - stunting
 PHYLMA = phytotoxicity - leaf malformation
 PHYCHL = phytotoxicity - chlorosis
 YIELD = yield

Rating Unit

% = percent
 bu/ac = bushels per acre

YD2 = per square yard

FT2 = per square foot

Plant-Eval Interval

14 DP-1 = 1 GLXMA May-16-2013
 20 DP-1 = 1 GLXMA May-16-2013
 29 DP-1 = 1 GLXMA May-16-2013
 34 DP-1 = 1 GLXMA May-16-2013
 41 DP-1 = 1 GLXMA May-16-2013
 47 DP-1 = 1 GLXMA May-16-2013
 57 DP-1 = 1 GLXMA May-16-2013
 131 DP-1 = 1 GLXMA May-16-2013