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MANA Soybean Concepts - Post Program

Trial ID: 13S-THP-CTS-53 Protocol ID: 13S-THP-CTS-53
 Location: Throckmorton Study Director:
 Project ID: 13-HER-CR-55-2612213-5 Investigator: Dr. Bill Johnson
 Sponsor Contact: MANA Crop Protection

General Trial Information

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

Discipline: H herbicide

Trial Location

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

Personnel

Investigator: Dr. Bill Johnson **Title:** Professor
Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA
Postal Code: 47907 **E-mail:** wj@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
Phone No.: 765-538-3422
Fax No.: 765-538-3423
City: Lafayette
State/Prov: IN
Postal Code: 47909 **E-mail:** jayyoung@purdue.edu
Country: USA United States

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: ASGROW AG29-33
Description: RR2
BBCH Scale: BSOY **Planting Date:** May-16-2013
Planting Method: DIRDRI direct drilled **Rate, Unit:** 130000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN
Soil Temperature, Unit: 78 F
Soil Moisture: DRY dry **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

Pest 4 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: velvetleaf

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-16-2013	PowerMax	22	OZ/A

Application Description

	A	B
Application Date:	May-16-2013	Jun-14-2013
Time of Day:	1:15 PM	2 PM
Application Method:	SPRAY	SPRAY
Application Timing:	ATPLAN	LAPOCR
Application Placement:	SOIL	FOLIAR
Applied By:	MW	MW
Air Temperature, Unit:	80 F	83 F
% Relative Humidity:	43	54
Wind Velocity, Unit:	1.9 MPH	3.6 MPH
Wind Direction:	N	NW
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	78 F	83 F
Soil Moisture:	DRY	SLIWET
% Cloud Cover:	40	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 Minimum, Maximum:		1 6
Density, Unit:		12 FT2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height Minimum, Maximum:		1 9
Density, Unit:		6 YD2
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Height Minimum, Maximum:		1 3
Density, Unit:		7 YD2
Pest 4 Code, Type, Scale:	ABUTH W	ABUTH W
Height, Unit:		2 IN
Density, Unit:		1 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

Date	By	Notes
Aug-12-2013		Weed control seen in untreated provided by PowerMax application applied to entire trial on 7/16

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 Location: Throckmorton Study Director:
 Project ID: 13-HER-CR-55-2612213-5 Investigator: Dr. Bill Johnson
 Sponsor Contact: MANA Crop Protection

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 Rate Unit	Growth Stage	Appl Code	Appl Description	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check												101	405	703	907
2	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a	1.76 oz wt/a		ATPLAN A			1.652 g/mx		103	307	603	905
	Classic	25 %AW/W		DF	0.31 oz ai/a	1.24 oz wt/a		ATPLAN A			1.161 g/mx					
	Rumble (1.88 L)	1.88 LBA/GAL		L	3.76 oz ai/a	1 pt/a		LAPOCR B		V3 Sbean	15.62 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a	22 fl oz/a		LAPOCR B		V3 Sbean	21.39 ml/mx					
	NIS	100 %		SL	0.25 % v/v	0.25 % v/v		LAPOCR B		V3 Sbean	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal	10 qt/100 gal		LAPOCR B		V3 Sbean	62.49 ml/mx					
3	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a	1.76 oz wt/a		ATPLAN A			1.652 g/mx		105	501	701	1007
	Classic	25 %AW/W		DF	0.31 oz ai/a	1.24 oz wt/a		ATPLAN A			1.161 g/mx					
	Rumble (1.88 L)	1.88 LBA/GAL		L	6 oz ai/a	1.6 pt/a		LAPOCR B		V3 Sbean	24.93 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a	22 fl oz/a		LAPOCR B		V3 Sbean	21.39 ml/mx					
	NIS	100 %		SL	0.25 % v/v	0.25 % v/v		LAPOCR B		V3 Sbean	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal	10 qt/100 gal		LAPOCR B		V3 Sbean	62.49 ml/mx					
4	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a	1.76 oz wt/a		ATPLAN A			1.652 g/mx		107	403	605	1001
	Classic	25 %AW/W		DF	0.31 oz ai/a	1.24 oz wt/a		ATPLAN A			1.161 g/mx					
	Flexstar (1.88 L)	1.88 LBA/GAL		L	3.76 oz ai/a	1 pt/a		LAPOCR B		V3 Sbean	15.62 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a	22 fl oz/a		LAPOCR B		V3 Sbean	21.39 ml/mx					
	NIS	100 %		SL	0.25 % v/v	0.25 % v/v		LAPOCR B		V3 Sbean	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal	10 qt/100 gal		LAPOCR B		V3 Sbean	62.49 ml/mx					
5	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a	1.76 oz wt/a		ATPLAN A			1.652 g/mx		201	507	803	1003
	Classic	25 %AW/W		DF	0.31 oz ai/a	1.24 oz wt/a		ATPLAN A			1.161 g/mx					
	Flexstar (1.88 L)	1.88 LBA/GAL		L	6 oz ai/a	1.6 pt/a		LAPOCR B		V3 Sbean	24.93 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a	22 fl oz/a		LAPOCR B		V3 Sbean	21.39 ml/mx					
	NIS	100 %		SL	0.25 % v/v	0.25 % v/v		LAPOCR B		V3 Sbean	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal	10 qt/100 gal		LAPOCR B		V3 Sbean	62.49 ml/mx					
6	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a	1.76 oz wt/a		ATPLAN A			1.652 g/mx		203	407	601	903
	Classic	25 %AW/W		DF	0.31 oz ai/a	1.24 oz wt/a		ATPLAN A			1.161 g/mx					
	Vice (5.4 EC)	5.4 LBA/GAL		EC	21.6 oz ai/a	2 pt/a		LAPOCR B		V3 Sbean	31.25 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a	22 fl oz/a		LAPOCR B		V3 Sbean	21.39 ml/mx					
	NIS	100 %		SL	0.25 % v/v	0.25 % v/v		LAPOCR B		V3 Sbean	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal	10 qt/100 gal		LAPOCR B		V3 Sbean	62.49 ml/mx					
7	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a	1.76 oz wt/a		ATPLAN A			1.652 g/mx		205	305	707	805
	Classic	25 %AW/W		DF	0.31 oz ai/a	1.24 oz wt/a		ATPLAN A			1.161 g/mx					
	Prefix (5.29 EC)	5.29 LBA/GAL		EC	21.2 oz ai/a	2 pt/a		LAPOCR B		V3 Sbean	31.31 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a	22 fl oz/a		LAPOCR B		V3 Sbean	21.39 ml/mx					
	NIS	100 %		SL	0.25 % v/v	0.25 % v/v		LAPOCR B		V3 Sbean	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal	10 qt/100 gal		LAPOCR B		V3 Sbean	62.49 ml/mx					
8	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a	1.76 oz wt/a		ATPLAN A			1.652 g/mx		207	505	607	901
	Classic	25 %AW/W		DF	0.31 oz ai/a	1.24 oz wt/a		ATPLAN A			1.161 g/mx					
	Pummel (5.25 ME)	5.25 LBA/GAL		ME	0.98 lb ai/a	1.5 pt/a		LAPOCR B		V3 Sbean	23.33 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a	22 fl oz/a		LAPOCR B		V3 Sbean	21.39 ml/mx					
	NIS	100 %		SL	0.25 % v/v	0.25 % v/v		LAPOCR B		V3 Sbean	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal	10 qt/100 gal		LAPOCR B		V3 Sbean	62.49 ml/mx					
9	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a	1.76 oz wt/a		ATPLAN A			1.652 g/mx		301	401	705	807
	Classic	25 %AW/W		DF	0.31 oz ai/a	1.24 oz wt/a		ATPLAN A			1.161 g/mx					
	Pummel (5.25 ME)	5.25 LBA/GAL		ME	1.31 lb ai/a	2 pt/a		LAPOCR B		V3 Sbean	31.19 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a	22 fl oz/a		LAPOCR B		V3 Sbean	21.39 ml/mx					
	NIS	100 %		SL	0.25 % v/v	0.25 % v/v		LAPOCR B		V3 Sbean	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal	10 qt/100 gal		LAPOCR B		V3 Sbean	62.49 ml/mx					

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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	2	3	4
10	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a		1.76 oz wt/a		ATPLAN	A		1.652 g/mx		303	503	801	1005
	Classic	25 %AW/W		DF	0.31 oz ai/a		1.24 oz wt/a		ATPLAN	A		1.161 g/mx					
	Torment (2.5 SL)	2.5 LBA/GAL		SL	3.75 oz ai/a		0.75 pt/a		LAPOCR	B	V3 Sbean	11.72 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a		22 fl oz/a		LAPOCR	B	V3 Sbean	21.39 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v		LAPOCR	B	V3 Sbean	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		LAPOCR	B	V3 Sbean	62.49 ml/mx					
11	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a		1.76 oz wt/a		ATPLAN	A		1.652 g/mx		102	304	606	1002
	Classic	25 %AW/W		DF	0.31 oz ai/a		1.24 oz wt/a		ATPLAN	A		1.161 g/mx					
	Torment (2.5 SL)	2.5 LBA/GAL		SL	5 oz ai/a		1 pt/a		LAPOCR	B	V3 Sbean	15.62 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a		22 fl oz/a		LAPOCR	B	V3 Sbean	21.39 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v		LAPOCR	B	V3 Sbean	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		LAPOCR	B	V3 Sbean	62.49 ml/mx					
12	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a		1.76 oz wt/a		ATPLAN	A		1.652 g/mx		104	502	702	904
	Classic	25 %AW/W		DF	0.31 oz ai/a		1.24 oz wt/a		ATPLAN	A		1.161 g/mx					
	Pursuit	2 LBA/GAL		EC	1 oz ai/a		4 fl oz/a		LAPOCR	B	V3 Sbean	3.906 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a		22 fl oz/a		LAPOCR	B	V3 Sbean	21.39 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v		LAPOCR	B	V3 Sbean	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		LAPOCR	B	V3 Sbean	62.49 ml/mx					
13	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a		1.76 oz wt/a		ATPLAN	A		1.652 g/mx		106	406	602	902
	Classic	25 %AW/W		DF	0.31 oz ai/a		1.24 oz wt/a		ATPLAN	A		1.161 g/mx					
	Extreme (2.17 SL)	2.17 LBA/GAL		SL	11.4 oz ai/a		42 fl oz/a		LAPOCR	B	V3 Sbean	41.04 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v		LAPOCR	B	V3 Sbean	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		LAPOCR	B	V3 Sbean	62.49 ml/mx					
	14	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a		1.76 oz wt/a		ATPLAN	A		1.652 g/mx		202	306	604
Classic		25 %AW/W		DF	0.31 oz ai/a		1.24 oz wt/a		ATPLAN	A		1.161 g/mx					
Warrant (3 CS)		3 LBA/GAL		SC	13.5 oz ai/a		2.25 pt/a		LAPOCR	B	V3 Sbean	35.15 ml/mx					
Roundup PowerMax 4.5 SL		4.5 LBAE/GAL		SL	0.77 lb ae/a		22 fl oz/a		LAPOCR	B	V3 Sbean	21.39 ml/mx					
NIS		100 %		SL	0.25 % v/v		0.25 % v/v		LAPOCR	B	V3 Sbean	6.249 ml/mx					
AMS - Liquid		3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		LAPOCR	B	V3 Sbean	62.49 ml/mx					
15	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a		1.76 oz wt/a		ATPLAN	A		1.652 g/mx		204	506	706	1006
	Classic	25 %AW/W		DF	0.31 oz ai/a		1.24 oz wt/a		ATPLAN	A		1.161 g/mx					
	Cobra	2 LBA/GAL		EC	1.5 oz ai/a		6 fl oz/a		LAPOCR	B	V3 Sbean	5.859 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a		22 fl oz/a		LAPOCR	B	V3 Sbean	21.39 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v		LAPOCR	B	V3 Sbean	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		LAPOCR	B	V3 Sbean	62.49 ml/mx					
16	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a		1.76 oz wt/a		ATPLAN	A		1.652 g/mx		206	404	704	806
	Classic	25 %AW/W		DF	0.31 oz ai/a		1.24 oz wt/a		ATPLAN	A		1.161 g/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a		22 fl oz/a		LAPOCR	B	V3 Sbean	21.39 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v		LAPOCR	B	V3 Sbean	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		LAPOCR	B	V3 Sbean	62.49 ml/mx					
	17	Valor SX (51 WG)	51 %		WG	0.9 oz ai/a		1.76 oz wt/a		ATPLAN	A		1.652 g/mx		302	402	802
Classic		25 %AW/W		DF	0.31 oz ai/a		1.24 oz wt/a		ATPLAN	A		1.161 g/mx					

Sort Order: Treatment

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Trial ID: 13S-THP-CTS-53 Protocol ID: 13S-THP-CTS-53
 Location: Throckmorton Study Director:
 Project ID: 13-HER-CR-55-2612213-5 Investigator: Dr. Bill Johnson
 Sponsor Contact: MANA Crop Protection

Pest Type					W Weed AMBTR Ambrosia trifida Giant ragweed	W Weed SETFA Setaria faberi Giant foxtail	W Weed SETFA Setaria faberi Giant foxtail				
Pest Code											
Pest Scientific Name											
Pest Name											
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-21-2013	Jun-21-2013	Jun-21-2013	Jun-26-2013	Jun-26-2013	Jun-26-2013	Jul-15-2013				
Rating Type	PHYLMA	PHYCHL	PHYNEC	PHYGEN	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1	1				
Crop Stage Majority	V5	V5	V5	V5-V6			R2				
Pest Stage Majority											
Pest Density, Unit											
Assessed By	MW	MW	MW	JH	JH	JH					
Days After First/Last Applic.	36 7	36 7	36 7	41 12	41 12	41 12	60 31				
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	41 DP-1	41 DP-1	41 DP-1	60 DP-1				
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	35 DE-1	35 DE-1	35 DE-1	54 DE-1				
Trt No.	Treatment	Rate	Appl								
	Name	Rate Unit	Code Plot	1	2	3	4				
				5	6	7					
1	Untreated Check		101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			405	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			703	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			907	0.0	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	0.0
2	Valor SX (51 WG)	0.9 oz ai/a	A 103	7.0	5.0	5.0	7.0	100.0	80.0	97.0	
	Classic	0.31 oz ai/a	A 307	13.0	3.0	5.0	2.0	70.0	85.0	99.0	
	Rumble (1.88 L)	3.76 oz ai/a	B 603	15.0	5.0	10.0	10.0	75.0	85.0	99.0	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 905	20.0	7.0	7.0	5.0	65.0	95.0	99.0	
	NIS	0.25 % v/v	B								
	AMS - Liquid	8.5 lb ai/100 gal	B								
			Mean =	13.8	5.0	6.8	6.0	77.5	86.3	98.5	
3	Valor SX (51 WG)	0.9 oz ai/a	A 105	10.0	7.0	5.0	5.0	85.0	55.0	93.0	
	Classic	0.31 oz ai/a	A 501	20.0	5.0	7.0	10.0	75.0	85.0	99.0	
	Rumble (1.88 L)	6 oz ai/a	B 701	10.0	5.0	5.0	5.0	80.0	80.0	95.0	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1007	17.0	5.0	7.0	5.0	85.0	75.0	95.0	
	NIS	0.25 % v/v	B								
	AMS - Liquid	8.5 lb ai/100 gal	B								
			Mean =	14.3	5.5	6.0	6.3	81.3	73.8	95.5	
4	Valor SX (51 WG)	0.9 oz ai/a	A 107	10.0	5.0	5.0	5.0	90.0	85.0	97.0	
	Classic	0.31 oz ai/a	A 403	13.0	7.0	5.0	5.0	65.0	80.0	99.0	
	Flexstar (1.88 L)	3.76 oz ai/a	B 605	7.0	5.0	5.0	5.0	60.0	90.0	99.0	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1001	13.0	3.0	7.0	5.0	55.0	90.0	95.0	
	NIS	0.25 % v/v	B								
	AMS - Liquid	8.5 lb ai/100 gal	B								
			Mean =	10.8	5.0	5.5	5.0	67.5	86.3	97.5	

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Pest Type					W Weed AMBTR Ambrosia trifida Giant ragweed	W Weed SETFA Setaria faberi Giant foxtail	W Weed SETFA Setaria faberi Giant foxtail			
Pest Code										
Pest Scientific Name										
Pest Name										
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA						
BBCB Scale	BSOY	BSOY	BSOY	BSOY						
Crop Scientific Name	Glycine max Soybean	Glycine max Soybean	Glycine max Soybean	Glycine max Soybean						
Crop Name										
Rating Date	Jun-21-2013	Jun-21-2013	Jun-21-2013	Jun-26-2013	Jun-26-2013	Jun-26-2013	Jul-15-2013			
Rating Type	PHYLMA	PHYCHL	PHYNEC	PHYGEN	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1			
Crop Stage Majority	V5	V5	V5	V5-V6						
Pest Stage Majority							R2			
Pest Density, Unit										
Assessed By	MW	MW	MW	JH	JH	JH				
Days After First/Last Applic.	36 7	36 7	36 7	41 12	41 12	41 12	60 31			
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	41 DP-1	41 DP-1	41 DP-1	60 DP-1			
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	35 DE-1	35 DE-1	35 DE-1	54 DE-1			
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6	7	
5 Valor SX (51 WG)	0.9 oz ai/a	A 201	20.0	0.0	15.0	7.0	80.0	85.0	97.0	
Classic	0.31 oz ai/a	A 507	10.0	5.0	7.0	5.0	95.0	90.0	99.0	
Flexstar (1.88 L)	6 oz ai/a	B 803	10.0	5.0	5.0	5.0	75.0	70.0	99.0	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1003	10.0	5.0	7.0	10.0	65.0	90.0	99.0	
NIS	0.25 % v/v	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
Mean =			12.5	3.8	8.5	6.8	78.8	83.8	98.5	
6 Valor SX (51 WG)	0.9 oz ai/a	A 203	20.0	5.0	10.0	10.0	75.0	95.0	99.0	
Classic	0.31 oz ai/a	A 407	20.0	5.0	5.0	5.0	90.0	90.0	99.0	
Vice (5.4 EC)	21.6 oz ai/a	B 601	7.0	5.0	7.0	3.0	70.0	85.0	99.0	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 903	10.0	5.0	5.0	5.0	45.0	100.0	99.0	
NIS	0.25 % v/v	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
Mean =			14.3	5.0	6.8	5.8	70.0	92.5	99.0	
7 Valor SX (51 WG)	0.9 oz ai/a	A 205	15.0	5.0	10.0	10.0	75.0	80.0	99.0	
Classic	0.31 oz ai/a	A 305	20.0	7.0	5.0	5.0	60.0	95.0	99.0	
Prefix (5.29 EC)	21.2 oz ai/a	B 707	20.0	0.0	5.0	5.0	90.0	95.0	99.0	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 805	25.0	10.0	10.0	12.0	80.0	90.0	99.0	
NIS	0.25 % v/v	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
Mean =			20.0	5.5	7.5	8.0	76.3	90.0	99.0	
8 Valor SX (51 WG)	0.9 oz ai/a	A 207	5.0	0.0	3.0	5.0	90.0	90.0	99.0	
Classic	0.31 oz ai/a	A 505	5.0	0.0	5.0	3.0	55.0	90.0	99.0	
Pummel (5.25 ME)	0.98 lb ai/a	B 607	5.0	0.0	0.0	2.0	75.0	90.0	99.0	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 901	75.0	0.0	5.0	10.0	60.0	85.0	99.0	
NIS	0.25 % v/v	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
Mean =			22.5	0.0	3.3	5.0	70.0	88.8	99.0	
9 Valor SX (51 WG)	0.9 oz ai/a	A 301	10.0	0.0	5.0	2.0	60.0	80.0	99.0	
Classic	0.31 oz ai/a	A 401	10.0	0.0	7.0	3.0	70.0	95.0	99.0	
Pummel (5.25 ME)	1.31 lb ai/a	B 705	10.0	0.0	5.0	3.0	75.0	100.0	99.0	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 807	5.0	0.0	0.0	3.0	85.0	75.0	99.0	
NIS	0.25 % v/v	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
Mean =			8.8	0.0	4.3	2.8	72.5	87.5	99.0	

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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						
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-21-2013	Jun-21-2013	Jun-21-2013	Jun-26-2013	Jun-26-2013	Jun-26-2013	Jul-15-2013			
Rating Type	PHYLMA	PHYCHL	PHYNEC	PHYGEN	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1			
Crop Stage Majority	V5	V5	V5	V5-V6						
Pest Stage Majority							R2			
Pest Density, Unit										
Assessed By	MW	MW	MW	JH	JH	JH				
Days After First/Last Applic.	36 7	36 7	36 7	41 12	41 12	41 12	60 31			
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	41 DP-1	41 DP-1	41 DP-1	60 DP-1			
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	35 DE-1	35 DE-1	35 DE-1	54 DE-1			
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6	7	
10 Valor SX (51 WG)	0.9 oz ai/a	A 303	7.0	5.0	3.0	5.0	85.0	90.0	95.0	
Classic	0.31 oz ai/a	A 503	10.0	10.0	5.0	5.0	60.0	80.0	95.0	
Torment (2.5 SL)	3.75 oz ai/a	B 801	15.0	7.0	5.0	5.0	60.0	80.0	99.0	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1005	7.0	5.0	5.0	5.0	65.0	80.0	99.0	
NIS	0.25 % v/v	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
	Mean =		9.8	6.8	4.5	5.0	67.5	82.5	97.0	
11 Valor SX (51 WG)	0.9 oz ai/a	A 102	7.0	7.0	5.0	10.0	60.0	85.0	99.0	
Classic	0.31 oz ai/a	A 304	10.0	7.0	5.0	5.0	65.0	90.0	99.0	
Torment (2.5 SL)	5 oz ai/a	B 606	7.0	7.0	5.0	5.0	60.0	75.0	95.0	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1002	7.0	7.0	5.0	5.0	60.0	100.0	99.0	
NIS	0.25 % v/v	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
	Mean =		7.8	7.0	5.0	6.3	61.3	87.5	98.0	
12 Valor SX (51 WG)	0.9 oz ai/a	A 104	3.0	0.0	0.0	0.0	50.0	60.0	99.0	
Classic	0.31 oz ai/a	A 502	10.0	5.0	5.0	7.0	75.0	70.0	99.0	
Pursuit	1 oz ai/a	B 702	5.0	0.0	0.0	3.0	50.0	90.0	99.0	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 904	0.0	0.0	0.0	2.0	65.0	90.0	99.0	
NIS	0.25 % v/v	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
	Mean =		4.5	1.3	1.3	3.0	60.0	77.5	99.0	
13 Valor SX (51 WG)	0.9 oz ai/a	A 106	5.0	0.0	0.0	2.0	50.0	75.0	99.0	
Classic	0.31 oz ai/a	A 406	3.0	3.0	0.0	2.0	50.0	85.0	99.0	
Extreme (2.17 SL)	11.4 oz ai/a	B 602	10.0	5.0	5.0	5.0	70.0	90.0	99.0	
NIS	0.25 % v/v	B 902	5.0	0.0	0.0	2.0	30.0	90.0	99.0	
AMS - Liquid	8.5 lb ai/100 gal	B								
	Mean =		5.8	2.0	1.3	2.8	50.0	85.0	99.0	
14 Valor SX (51 WG)	0.9 oz ai/a	A 202	7.0	5.0	3.0	2.0	80.0	90.0	99.0	
Classic	0.31 oz ai/a	A 306	3.0	0.0	0.0	3.0	50.0	90.0	99.0	
Warrant (3 CS)	13.5 oz ai/a	B 604	0.0	0.0	0.0	0.0	45.0	80.0	99.0	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 906	3.0	0.0	0.0	0.0	80.0	80.0	95.0	
NIS	0.25 % v/v	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
	Mean =		3.3	1.3	0.8	1.3	63.8	85.0	98.0	

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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						
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-21-2013	Jun-21-2013	Jun-21-2013	Jun-26-2013	Jun-26-2013	Jun-26-2013	Jun-26-2013	Jun-26-2013	Jun-26-2013	Jul-15-2013
Rating Type	PHYLMA	PHYCHL	PHYNEC	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1	1	1	1
Crop Stage Majority	V5	V5	V5	V5-V6						R2
Pest Stage Majority										
Pest Density, Unit										
Assessed By	MW	MW	MW	JH	JH	JH	JH	JH	JH	
Days After First/Last Applic.	36 7	36 7	36 7	41 12	41 12	41 12	41 12	41 12	41 12	60 31
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1	60 DP-1
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	54 DE-1
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6	7	
15 Valor SX (51 WG)	0.9 oz ai/a	A 204	10.0	5.0	10.0	5.0	85.0	85.0	99.0	
Classic	0.31 oz ai/a	A 506	7.0	7.0	7.0	5.0	75.0	85.0	95.0	
Cobra	1.5 oz ai/a	B 706	17.0	5.0	10.0	7.0	85.0	90.0	99.0	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1006	25.0	7.0	10.0	5.0	75.0	75.0	90.0	
NIS	0.25 % v/v	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
		Mean =	14.8	6.0	9.3	5.5	80.0	83.8	95.8	
16 Valor SX (51 WG)	0.9 oz ai/a	A 206	3.0	0.0	0.0	0.0	60.0	80.0	99.0	
Classic	0.31 oz ai/a	A 404	5.0	0.0	0.0	0.0	55.0	90.0	99.0	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 704	10.0	3.0	3.0	5.0	75.0	90.0	99.0	
NIS	0.25 % v/v	B 806	3.0	0.0	0.0	3.0	65.0	80.0	95.0	
AMS - Liquid	8.5 lb ai/100 gal	B								
		Mean =	5.3	0.8	0.8	2.0	63.8	85.0	98.0	
17 Valor SX (51 WG)	0.9 oz ai/a	A 302	0.0	0.0	0.0	0.0	35.0	35.0	90.0	
Classic	0.31 oz ai/a	A 402	3.0	0.0	0.0	0.0	10.0	20.0	95.0	
		802	0.0	0.0	0.0	0.0	0.0	0.0	90.0	
		804	0.0	0.0	0.0	0.0	0.0	0.0	70.0	
		Mean =	0.8	0.0	0.0	0.0	11.3	13.8	86.3	

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Pest Type	W Weed	W Weed		W Weed	W Weed	W Weed		
Pest Code	AMBTR	CHEAL		SETFA	AMBTR	AMBTR		
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>		Setaria faberi	Ambrosia trifi>	Ambrosia trifi>		
Pest Name	Giant ragweed	Common lambsqu>		Giant foxtail	Giant ragweed	Giant ragweed		
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	Jul-15-2013	Jul-15-2013	Jul-15-2013	Aug-12-2013	Aug-12-2013	Sep-24-2013		
Rating Type	CONTRO	CONTRO	PHYSTU	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	R2	R2	R2	R2	R2			
Pest Stage Majority				36 IN	48 IN			
Pest Density, Unit				10 FT2	5 YD2			
Assessed By				MW	MW			
Days After First/Last Applic.	60 31	60 31	60 31	88 59	88 59	131 102		
Plant-Eval Interval	60 DP-1	60 DP-1	60 DP-1	88 DP-1	88 DP-1	131 DP-1		
Days After Emergence	54 DE-1	54 DE-1	54 DE-1	82 DE-1	82 DE-1	125 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	8	9	10	11	12	13
1 Untreated Check		101	0.0	0.0	0.0	95.0	20.0	0.0
		405	0.0	0.0	0.0	99.0	30.0	0.0
		703	0.0	0.0	0.0	99.0	20.0	0.0
		907	0.0	0.0	0.0	99.0	50.0	0.0
		Mean =	0.0	0.0	0.0	98.0	30.0	0.0
2 Valor SX (51 WG)	0.9 oz ai/a	A 103	97.0	99.0	0.0	99.0	99.0	99.0
Classic	0.31 oz ai/a	A 307	97.0	99.0	0.0	99.0	99.0	96.0
Rumble (1.88 L)	3.76 oz ai/a	B 603	87.0	99.0	3.0	99.0	99.0	97.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 905	85.0	99.0	3.0	99.0	99.0	98.0
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
		Mean =	91.5	99.0	1.5	99.0	99.0	97.5
3 Valor SX (51 WG)	0.9 oz ai/a	A 105	93.0	99.0	3.0	99.0	99.0	96.0
Classic	0.31 oz ai/a	A 501	95.0	99.0	3.0	99.0	99.0	99.0
Rumble (1.88 L)	6 oz ai/a	B 701	93.0	99.0	3.0	99.0	99.0	99.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1007	95.0	99.0	0.0	99.0	99.0	99.0
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
		Mean =	94.0	99.0	2.3	99.0	99.0	98.3
4 Valor SX (51 WG)	0.9 oz ai/a	A 107	99.0	99.0	0.0	99.0	99.0	99.0
Classic	0.31 oz ai/a	A 403	87.0	99.0	0.0	99.0	99.0	99.0
Flexstar (1.88 L)	3.76 oz ai/a	B 605	83.0	99.0	3.0	99.0	99.0	97.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1001	83.0	99.0	0.0	99.0	90.0	93.0
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
		Mean =	88.0	99.0	0.8	99.0	96.8	97.0

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	CHEAL	SETFA	AMBTR	AMBTR			
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Ambrosia trifi>			
Pest Name	Giant ragweed	Common lambsqu>	Giant foxtail	Giant ragweed	Giant ragweed			
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	Jul-15-2013	Jul-15-2013	Jul-15-2013	Aug-12-2013	Aug-12-2013			
Rating Type	CONTRO	CONTRO	PHYSTU	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Crop Stage Majority	R2	R2	R2	R2	R2			
Pest Stage Majority				36 IN	48 IN			
Pest Density, Unit				10 FT2	5 YD2			
Assessed By				MW	MW			
Days After First/Last Applic.	60 31	60 31	60 31	88 59	88 59			
Plant-Eval Interval	60 DP-1	60 DP-1	60 DP-1	88 DP-1	88 DP-1			
Days After Emergence	54 DE-1	54 DE-1	54 DE-1	82 DE-1	82 DE-1			
Trt Treatment	Rate	Appl	8	9	10	11	12	13
No. Name	Rate Unit	Code Plot						
5 Valor SX (51 WG)	0.9 oz ai/a	A 201	95.0	99.0	0.0	99.0	95.0	97.0
Classic	0.31 oz ai/a	A 507	99.0	99.0	0.0	99.0	99.0	99.0
Flexstar (1.88 L)	6 oz ai/a	B 803	93.0	99.0	0.0	99.0	99.0	99.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1003	87.0	99.0	3.0	99.0	93.0	96.0
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
	Mean =		93.5	99.0	0.8	99.0	96.5	97.8
6 Valor SX (51 WG)	0.9 oz ai/a	A 203	95.0	99.0	3.0	99.0	99.0	99.0
Classic	0.31 oz ai/a	A 407	95.0	99.0	0.0	99.0	99.0	99.0
Vice (5.4 EC)	21.6 oz ai/a	B 601	87.0	99.0	3.0	99.0	99.0	95.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 903	70.0	99.0	5.0	99.0	99.0	99.0
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
	Mean =		86.8	99.0	2.8	99.0	99.0	98.0
7 Valor SX (51 WG)	0.9 oz ai/a	A 205	93.0	99.0	3.0	99.0	99.0	97.0
Classic	0.31 oz ai/a	A 305	83.0	99.0	5.0	99.0	99.0	97.0
Prefix (5.29 EC)	21.2 oz ai/a	B 707	99.0	99.0	0.0	99.0	99.0	99.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 805	85.0	99.0	5.0	99.0	99.0	98.0
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
	Mean =		90.0	99.0	3.3	99.0	99.0	97.8
8 Valor SX (51 WG)	0.9 oz ai/a	A 207	97.0	99.0	3.0	99.0	99.0	99.0
Classic	0.31 oz ai/a	A 505	85.0	99.0	0.0	99.0	99.0	99.0
Pummel (5.25 ME)	0.98 lb ai/a	B 607	93.0	99.0	0.0	99.0	99.0	99.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 901	85.0	99.0	0.0	99.0	95.0	98.0
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
	Mean =		90.0	99.0	0.8	99.0	98.0	98.8
9 Valor SX (51 WG)	0.9 oz ai/a	A 301	93.0	99.0	0.0	99.0	99.0	99.0
Classic	0.31 oz ai/a	A 401	90.0	99.0	0.0	99.0	99.0	97.0
Pummel (5.25 ME)	1.31 lb ai/a	B 705	90.0	99.0	0.0	99.0	99.0	99.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 807	93.0	99.0	0.0	99.0	99.0	99.0
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
	Mean =		91.5	99.0	0.0	99.0	99.0	98.5

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	CHEAL		SETFA	AMBTR			
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>		Setaria faberi	Ambrosia trifi>			
Pest Name	Giant ragweed	Common lambsqu>		Giant foxtail	Giant ragweed			
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	Jul-15-2013	Jul-15-2013	Jul-15-2013	Aug-12-2013	Aug-12-2013			
Rating Type	CONTRO	CONTRO	PHYSTU	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Crop Stage Majority	R2	R2	R2	R2	R2			
Pest Stage Majority				36 IN	48 IN			
Pest Density, Unit				10 FT2	5 YD2			
Assessed By				MW	MW			
Days After First/Last Applic.	60 31	60 31	60 31	88 59	88 59			
Plant-Eval Interval	60 DP-1	60 DP-1	60 DP-1	88 DP-1	88 DP-1			
Days After Emergence	54 DE-1	54 DE-1	54 DE-1	82 DE-1	82 DE-1			
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	8	9	10			
			11	12	13			
10 Valor SX (51 WG)	0.9 oz ai/a	A 303	93.0	99.0	0.0	99.0	95.0	96.0
Classic	0.31 oz ai/a	A 503	75.0	99.0	3.0	99.0	95.0	97.0
Torment (2.5 SL)	3.75 oz ai/a	B 801	87.0	99.0	0.0	99.0	99.0	99.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1005	80.0	99.0	0.0	99.0	95.0	95.0
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
	Mean =		83.8	99.0	0.8	99.0	96.0	96.8
11 Valor SX (51 WG)	0.9 oz ai/a	A 102	90.0	99.0	0.0	99.0	99.0	96.0
Classic	0.31 oz ai/a	A 304	95.0	99.0	3.0	99.0	99.0	96.0
Torment (2.5 SL)	5 oz ai/a	B 606	93.0	99.0	0.0	99.0	99.0	99.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1002	85.0	99.0	0.0	99.0	95.0	94.0
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
	Mean =		90.8	99.0	0.8	99.0	98.0	96.3
12 Valor SX (51 WG)	0.9 oz ai/a	A 104	85.0	99.0	0.0	99.0	95.0	95.0
Classic	0.31 oz ai/a	A 502	93.0	99.0	3.0	99.0	99.0	99.0
Pursuit	1 oz ai/a	B 702	85.0	99.0	5.0	99.0	95.0	95.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 904	83.0	99.0	3.0	99.0	99.0	99.0
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
	Mean =		86.5	99.0	2.8	99.0	97.0	97.0
13 Valor SX (51 WG)	0.9 oz ai/a	A 106	87.0	99.0	0.0	99.0	99.0	94.0
Classic	0.31 oz ai/a	A 406	83.0	99.0	0.0	99.0	95.0	96.0
Extreme (2.17 SL)	11.4 oz ai/a	B 602	75.0	99.0	5.0	99.0	93.0	92.0
NIS	0.25 % v/v	B 902	80.0	99.0	0.0	99.0	99.0	97.0
AMS - Liquid	8.5 lb ai/100 gal	B						
	Mean =		81.3	99.0	1.3	99.0	96.5	94.8
14 Valor SX (51 WG)	0.9 oz ai/a	A 202	93.0	99.0	0.0	99.0	99.0	95.0
Classic	0.31 oz ai/a	A 306	80.0	99.0	3.0	99.0	95.0	97.0
Warrant (3 CS)	13.5 oz ai/a	B 604	80.0	99.0	0.0	99.0	93.0	94.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 906	90.0	99.0	0.0	99.0	99.0	99.0
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
	Mean =		85.8	99.0	0.8	99.0	96.5	96.3

Purdue University

	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Type	AMBTR	CHEAL		SETFA	AMBTR			
Pest Code	AMBTR	CHEAL		SETFA	AMBTR			
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>		Setaria faberi	Ambrosia trifi>			
Pest Name	Giant ragweed	Common lambsqu>		Giant foxtail	Giant ragweed			
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	Jul-15-2013	Jul-15-2013	Jul-15-2013	Aug-12-2013	Aug-12-2013			
Rating Type	CONTRO	CONTRO	PHYSTU	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Crop Stage Majority	R2	R2	R2	R2	R2			
Pest Stage Majority				36 IN	48 IN			
Pest Density, Unit				10 FT2	5 YD2			
Assessed By				MW	MW			
Days After First/Last Applic.	60 31	60 31	60 31	88 59	88 59			
Plant-Eval Interval	60 DP-1	60 DP-1	60 DP-1	88 DP-1	88 DP-1			
Days After Emergence	54 DE-1	54 DE-1	54 DE-1	82 DE-1	82 DE-1			
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	8	9	10			
			11	12	13			
15 Valor SX (51 WG)	0.9 oz ai/a	A 204	97.0	99.0	0.0	99.0	99.0	99.0
Classic	0.31 oz ai/a	A 506	90.0	99.0	0.0	99.0	99.0	99.0
Cobra	1.5 oz ai/a	B 706	83.0	99.0	0.0	99.0	99.0	99.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1006	83.0	99.0	0.0	99.0	99.0	98.0
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
	Mean =		88.3	99.0	0.0	99.0	99.0	98.8
16 Valor SX (51 WG)	0.9 oz ai/a	A 206	90.0	99.0	0.0	99.0	95.0	96.0
Classic	0.31 oz ai/a	A 404	85.0	99.0	0.0	99.0	99.0	98.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 704	85.0	99.0	0.0	99.0	95.0	99.0
NIS	0.25 % v/v	B 806	90.0	99.0	0.0	99.0	99.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B						
	Mean =		87.5	99.0	0.0	99.0	97.0	98.0
17 Valor SX (51 WG)	0.9 oz ai/a	A 302	30.0	99.0	0.0	99.0	60.0	0.0
Classic	0.31 oz ai/a	A 402	0.0	99.0	0.0	99.0	50.0	0.0
		802	0.0	99.0	0.0	99.0	30.0	0.0
		804	0.0	99.0	0.0	90.0	30.0	0.0
	Mean =		7.5	99.0	0.0	96.8	42.5	0.0

Purdue University

Pest Type			W Weed		
Pest Code			CHEAL		
Pest Scientific Name			Chenopodium al>		
Pest Name			Common lambsqu>		
Crop Code				GLXMA	
BBCB Scale				BSOY	
Crop Scientific Name				Glycine max	
Crop Name				Soybean	
Rating Date			Sep-24-2013	Sep-25-2013	
Rating Type			CONTRO	YIELD	
Rating Unit			%	bu/ac	
Number of Subsamples			1	1	
Crop Stage Majority					
Pest Stage Majority					
Pest Density, Unit					
Assessed By					
Days After First/Last Applic.			131 102	132 103	
Plant-Eval Interval			131 DP-1	132 DP-1	
Days After Emergence			125 DE-1	126 DE-1	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	14	15	
1 Untreated Check		101	0.0	45.10	
		405	0.0	3.40	
		703	0.0	2.00	
		907	0.0	57.10	
		Mean =	0.0	26.90	
2 Valor SX (51 WG)	0.9 oz ai/a	A 103	99.0	89.80	
Classic	0.31 oz ai/a	A 307	99.0	95.50	
Rumble (1.88 L)	3.76 oz ai/a	B 603	99.0	86.10	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 905	99.0	100.20	
NIS	0.25 % v/v	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
		Mean =	99.0	92.90	
3 Valor SX (51 WG)	0.9 oz ai/a	A 105	99.0	87.50	
Classic	0.31 oz ai/a	A 501	99.0	93.50	
Rumble (1.88 L)	6 oz ai/a	B 701	99.0	99.70	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1007	99.0	100.00	
NIS	0.25 % v/v	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
		Mean =	99.0	95.18	
4 Valor SX (51 WG)	0.9 oz ai/a	A 107	99.0	82.90	
Classic	0.31 oz ai/a	A 403	99.0	86.60	
Flexstar (1.88 L)	3.76 oz ai/a	B 605	99.0	89.20	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1001	99.0	78.10	
NIS	0.25 % v/v	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
		Mean =	99.0	84.20	

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Pest Type			W Weed		
Pest Code			CHEAL		
Pest Scientific Name			Chenopodium al>		
Pest Name			Common lambsqu>		
Crop Code				GLXMA	
BBCH Scale				BSOY	
Crop Scientific Name				Glycine max	
Crop Name				Soybean	
Rating Date			Sep-24-2013	Sep-25-2013	
Rating Type			CONTRO	YIELD	
Rating Unit			%	bu/ac	
Number of Subsamples			1	1	
Crop Stage Majority					
Pest Stage Majority					
Pest Density, Unit					
Assessed By					
Days After First/Last Applic.			131 102	132 103	
Plant-Eval Interval			131 DP-1	132 DP-1	
Days After Emergence			125 DE-1	126 DE-1	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	14	15	
5 Valor SX (51 WG)	0.9 oz ai/a	A 201	99.0	95.60	
Classic	0.31 oz ai/a	A 507	99.0	97.70	
Flexstar (1.88 L)	6 oz ai/a	B 803	99.0	81.00	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1003	99.0	75.80	
NIS	0.25 % v/v	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
		Mean =	99.0	87.53	
6 Valor SX (51 WG)	0.9 oz ai/a	A 203	99.0	87.60	
Classic	0.31 oz ai/a	A 407	99.0	96.90	
Vice (5.4 EC)	21.6 oz ai/a	B 601	99.0	92.70	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 903	99.0	85.80	
NIS	0.25 % v/v	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
		Mean =	99.0	90.75	
7 Valor SX (51 WG)	0.9 oz ai/a	A 205	99.0	94.20	
Classic	0.31 oz ai/a	A 305	99.0	88.40	
Prefix (5.29 EC)	21.2 oz ai/a	B 707	99.0	101.60	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 805	99.0	90.50	
NIS	0.25 % v/v	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
		Mean =	99.0	93.68	
8 Valor SX (51 WG)	0.9 oz ai/a	A 207	99.0	91.50	
Classic	0.31 oz ai/a	A 505	99.0	88.30	
Pummel (5.25 ME)	0.98 lb ai/a	B 607	99.0	100.40	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 901	99.0	90.80	
NIS	0.25 % v/v	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
		Mean =	99.0	92.75	
9 Valor SX (51 WG)	0.9 oz ai/a	A 301	99.0	97.50	
Classic	0.31 oz ai/a	A 401	99.0	91.30	
Pummel (5.25 ME)	1.31 lb ai/a	B 705	99.0	94.20	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 807	99.0	91.40	
NIS	0.25 % v/v	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
		Mean =	99.0	93.60	

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Pest Type			W Weed		
Pest Code			CHEAL		
Pest Scientific Name			Chenopodium al>		
Pest Name			Common lambsqu>		
Crop Code				GLXMA	
BBCH Scale				BSOY	
Crop Scientific Name				Glycine max	
Crop Name				Soybean	
Rating Date			Sep-24-2013	Sep-25-2013	
Rating Type			CONTRO	YIELD	
Rating Unit			%	bu/ac	
Number of Subsamples			1	1	
Crop Stage Majority					
Pest Stage Majority					
Pest Density, Unit					
Assessed By					
Days After First/Last Applic.			131 102	132 103	
Plant-Eval Interval			131 DP-1	132 DP-1	
Days After Emergence			125 DE-1	126 DE-1	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	14	15	
10 Valor SX (51 WG)	0.9 oz ai/a	A 303	99.0	94.10	
Classic	0.31 oz ai/a	A 503	99.0	77.50	
Torment (2.5 SL)	3.75 oz ai/a	B 801	99.0	90.40	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1005	99.0	93.20	
NIS	0.25 % v/v	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
		Mean =	99.0	88.80	
11 Valor SX (51 WG)	0.9 oz ai/a	A 102	99.0	80.60	
Classic	0.31 oz ai/a	A 304	99.0	96.80	
Torment (2.5 SL)	5 oz ai/a	B 606	99.0	93.50	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1002	99.0	73.70	
NIS	0.25 % v/v	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
		Mean =	99.0	86.15	
12 Valor SX (51 WG)	0.9 oz ai/a	A 104	99.0	81.40	
Classic	0.31 oz ai/a	A 502	99.0	81.90	
Pursuit	1 oz ai/a	B 702	99.0	82.70	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 904	99.0	88.30	
NIS	0.25 % v/v	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
		Mean =	99.0	83.58	
13 Valor SX (51 WG)	0.9 oz ai/a	A 106	99.0	83.00	
Classic	0.31 oz ai/a	A 406	99.0	83.30	
Extreme (2.17 SL)	11.4 oz ai/a	B 602	99.0	85.50	
NIS	0.25 % v/v	B 902	99.0	73.90	
AMS - Liquid	8.5 lb ai/100 gal	B			
		Mean =	99.0	81.43	
14 Valor SX (51 WG)	0.9 oz ai/a	A 202	99.0	87.40	
Classic	0.31 oz ai/a	A 306	99.0	89.90	
Warrant (3 CS)	13.5 oz ai/a	B 604	99.0	88.70	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 906	99.0	87.80	
NIS	0.25 % v/v	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
		Mean =	99.0	88.45	

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Pest Type	W Weed			
Pest Code	CHEAL			
Pest Scientific Name	Chenopodium al>			
Pest Name	Common lambsqu>			
Crop Code			GLXMA	
BBCH Scale			BSOY	
Crop Scientific Name			Glycine max	
Crop Name			Soybean	
Rating Date	Sep-24-2013		Sep-25-2013	
Rating Type	CONTRO		YIELD	
Rating Unit	%		bu/ac	
Number of Subsamples	1		1	
Crop Stage Majority				
Pest Stage Majority				
Pest Density, Unit				
Assessed By				
Days After First/Last Applic.	131 102		132 103	
Plant-Eval Interval	131 DP-1		132 DP-1	
Days After Emergence	125 DE-1		126 DE-1	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	14	15
15 Valor SX (51 WG)	0.9 oz ai/a	A 204	99.0	92.00
Classic	0.31 oz ai/a	A 506	99.0	87.90
Cobra	1.5 oz ai/a	B 706	99.0	88.40
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1006	99.0	89.50
NIS	0.25 % v/v	B		
AMS - Liquid	8.5 lb ai/100 gal	B		
		Mean =	99.0	89.45
16 Valor SX (51 WG)	0.9 oz ai/a	A 206	99.0	97.10
Classic	0.31 oz ai/a	A 404	99.0	77.50
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 704	99.0	81.30
NIS	0.25 % v/v	B 806	99.0	91.30
AMS - Liquid	8.5 lb ai/100 gal	B		
		Mean =	99.0	86.80
17 Valor SX (51 WG)	0.9 oz ai/a	A 302	99.0	70.20
Classic	0.31 oz ai/a	A 402	99.0	33.30
		802	99.0	1.30
		804	99.0	0.60
		Mean =	99.0	26.35

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MANA Soybean Concepts - Post Program

Trial ID: 13S-THP-CTS-53 Protocol ID: 13S-THP-CTS-53
 Location: Throckmorton Study Director:
 Project ID: 13-HER-CR-55-2612213-5 Investigator: Dr. Bill Johnson
 Sponsor Contact: MANA Crop Protection

Pest Type

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

Pest Code

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

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

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

Rating Unit

% = percent
 bu/ac = bushels per acre

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

36 DP-1 = 1 GLXMA May-16-2013
 41 DP-1 = 1 GLXMA May-16-2013
 60 DP-1 = 1 GLXMA May-16-2013
 88 DP-1 = 1 GLXMA May-16-2013
 131 DP-1 = 1 GLXMA May-16-2013
 132 DP-1 = 1 GLXMA May-16-2013

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MANA Soybean Concepts - Post Program

Trial ID: 13S-THP-CTS-53 Protocol ID: 13S-THP-CTS-53
 Location: Throckmorton Study Director:
 Project ID: 13-HER-CR-55-2612213-5 Investigator: Dr. Bill Johnson
 Sponsor Contact: MANA Crop Protection

Pest Type					W Weed AMBTR Ambrosia trifida Giant ragweed	W Weed SETFA Setaria faberi Giant foxtail	W Weed SETFA Setaria faberi Giant foxtail
Pest Code							
Pest Scientific Name							
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-21-2013	Jun-21-2013	Jun-21-2013	Jun-26-2013	Jun-26-2013	Jun-26-2013	Jul-15-2013
Rating Type	PHYLMA	PHYCHL	PHYNEC	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority	V5	V5	V5	V5-V6			R2
Pest Stage Majority							
Pest Density, Unit							
Assessed By	MW	MW	MW	JH	JH	JH	
Days After First/Last Applic.	36 7	36 7	36 7	41 12	41 12	41 12	60 31
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	41 DP-1	41 DP-1	41 DP-1	60 DP-1
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	35 DE-1	35 DE-1	35 DE-1	54 DE-1
Trt No.	Treatment	Rate	Appl				
	Name	Rate Unit	Code	1	2	3	4
				5	6	7	
1	Untreated Check			0.0 a	0.0 d	0.0 e	0.0 c
				0.0 b	0.0 c	0.0 c	
2	Valor SX (51 WG)	0.9 oz ai/a	A	13.8 a	5.0 abc	6.8 ab	6.0 ab
	Classic	0.31 oz ai/a	A				
	Rumble (1.88 L)	3.76 oz ai/a	B				
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B				
	NIS	0.25 % v/v	B				
	AMS - Liquid	8.5 lb ai/100 gal	B				
							77.5 a
							86.3 a
							98.5 a
3	Valor SX (51 WG)	0.9 oz ai/a	A	14.3 a	5.5 abc	6.0 abc	6.3 ab
	Classic	0.31 oz ai/a	A				
	Rumble (1.88 L)	6 oz ai/a	B				
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B				
	NIS	0.25 % v/v	B				
	AMS - Liquid	8.5 lb ai/100 gal	B				
							81.3 a
							73.8 a
							95.5 a
4	Valor SX (51 WG)	0.9 oz ai/a	A	10.8 a	5.0 abc	5.5 a-d	5.0 abc
	Classic	0.31 oz ai/a	A				
	Flexstar (1.88 L)	3.76 oz ai/a	B				
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B				
	NIS	0.25 % v/v	B				
	AMS - Liquid	8.5 lb ai/100 gal	B				
							67.5 a
							86.3 a
							97.5 a
5	Valor SX (51 WG)	0.9 oz ai/a	A	12.5 a	3.8 a-d	8.5 a	6.8 ab
	Classic	0.31 oz ai/a	A				
	Flexstar (1.88 L)	6 oz ai/a	B				
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B				
	NIS	0.25 % v/v	B				
	AMS - Liquid	8.5 lb ai/100 gal	B				
							78.8 a
							83.8 a
							98.5 a
6	Valor SX (51 WG)	0.9 oz ai/a	A	14.3 a	5.0 abc	6.8 ab	5.8 ab
	Classic	0.31 oz ai/a	A				
	Vice (5.4 EC)	21.6 oz ai/a	B				
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B				
	NIS	0.25 % v/v	B				
	AMS - Liquid	8.5 lb ai/100 gal	B				
							70.0 a
							92.5 a
							99.0 a

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 AMBTR Ambrosia trifida Giant ragweed	W Weed SETFA Setaria faberii Giant foxtail	W Weed SETFA Setaria faberii Giant foxtail			
Pest Code										
Pest Scientific Name										
Pest Name										
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA						
BBCB Scale	BSOY	BSOY	BSOY	BSOY						
Crop Scientific Name	Glycine max Soybean	Glycine max Soybean	Glycine max Soybean	Glycine max Soybean						
Crop Name										
Rating Date	Jun-21-2013	Jun-21-2013	Jun-21-2013	Jun-26-2013	Jun-26-2013	Jun-26-2013	Jul-15-2013			
Rating Type	PHYLM	PHYCHL	PHYNEC	PHYGEN	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1			
Crop Stage Majority	V5	V5	V5	V5-V6			R2			
Pest Stage Majority										
Pest Density, Unit										
Assessed By	MW	MW	MW	JH	JH	JH				
Days After First/Last Applic.	36 7	36 7	36 7	41 12	41 12	41 12	60 31			
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	41 DP-1	41 DP-1	41 DP-1	60 DP-1			
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	35 DE-1	35 DE-1	35 DE-1	54 DE-1			
Trt No.	Treatment Name	Rate	Appl Code	1	2	3	4	5	6	7
		Rate Unit								
7	Valor SX (51 WG)	0.9 oz ai/a	A	20.0 a	5.5 abc	7.5 ab	8.0 a	76.3 a	90.0 a	99.0 a
	Classic	0.31 oz ai/a	A							
	Prefix (5.29 EC)	21.2 oz ai/a	B							
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B							
	NIS	0.25 % v/v	B							
	AMS - Liquid	8.5 lb ai/100 gal	B							
8	Valor SX (51 WG)	0.9 oz ai/a	A	22.5 a	0.0 d	3.3 b-e	5.0 abc	70.0 a	88.8 a	99.0 a
	Classic	0.31 oz ai/a	A							
	Pummel (5.25 ME)	0.98 lb ai/a	B							
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B							
	NIS	0.25 % v/v	B							
	AMS - Liquid	8.5 lb ai/100 gal	B							
9	Valor SX (51 WG)	0.9 oz ai/a	A	8.8 a	0.0 d	4.3 a-e	2.8 abc	72.5 a	87.5 a	99.0 a
	Classic	0.31 oz ai/a	A							
	Pummel (5.25 ME)	1.31 lb ai/a	B							
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B							
	NIS	0.25 % v/v	B							
	AMS - Liquid	8.5 lb ai/100 gal	B							
10	Valor SX (51 WG)	0.9 oz ai/a	A	9.8 a	6.8 a	4.5 a-e	5.0 abc	67.5 a	82.5 a	97.0 a
	Classic	0.31 oz ai/a	A							
	Torment (2.5 SL)	3.75 oz ai/a	B							
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B							
	NIS	0.25 % v/v	B							
	AMS - Liquid	8.5 lb ai/100 gal	B							
11	Valor SX (51 WG)	0.9 oz ai/a	A	7.8 a	7.0 a	5.0 a-e	6.3 ab	61.3 a	87.5 a	98.0 a
	Classic	0.31 oz ai/a	A							
	Torment (2.5 SL)	5 oz ai/a	B							
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B							
	NIS	0.25 % v/v	B							
	AMS - Liquid	8.5 lb ai/100 gal	B							
12	Valor SX (51 WG)	0.9 oz ai/a	A	4.5 a	1.3 cd	1.3 cde	3.0 abc	60.0 a	77.5 a	99.0 a
	Classic	0.31 oz ai/a	A							
	Pursuit	1 oz ai/a	B							
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B							
	NIS	0.25 % v/v	B							
	AMS - Liquid	8.5 lb ai/100 gal	B							
13	Valor SX (51 WG)	0.9 oz ai/a	A	5.8 a	2.0 bcd	1.3 cde	2.8 abc	50.0 a	85.0 a	99.0 a
	Classic	0.31 oz ai/a	A							
	Extreme (2.17 SL)	11.4 oz ai/a	B							
	NIS	0.25 % v/v	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		SETFA	AMBTR	AMBTR		
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>		Setaria faberi	Ambrosia trifi>	Ambrosia trifi>		
Pest Name	Giant ragweed	Common lambsqu>		Giant foxtail	Giant ragweed	Giant ragweed		
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	Jul-15-2013	Jul-15-2013	Jul-15-2013	Aug-12-2013	Aug-12-2013	Sep-24-2013		
Rating Type	CONTRO	CONTRO	PHYSTU	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	R2	R2	R2	R2	R2			
Pest Stage Majority				36 IN	48 IN			
Pest Density, Unit				10 FT2	5 YD2			
Assessed By				MW	MW			
Days After First/Last Applic.	60 31	60 31	60 31	88 59	88 59	131 102		
Plant-Eval Interval	60 DP-1	60 DP-1	60 DP-1	88 DP-1	88 DP-1	131 DP-1		
Days After Emergence	54 DE-1	54 DE-1	54 DE-1	82 DE-1	82 DE-1	125 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	8	9	10	11	12	13
1 Untreated Check			0.0 b	0.0 b	0.0 a	98.0 a	30.0 c	0.0 b
2 Valor SX (51 WG)	0.9 oz ai/a	A	91.5 a	99.0 a	1.5 a	99.0 a	99.0 a	97.5 a
Classic	0.31 oz ai/a	A						
Rumble (1.88 L)	3.76 oz ai/a	B						
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B						
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
3 Valor SX (51 WG)	0.9 oz ai/a	A	94.0 a	99.0 a	2.3 a	99.0 a	99.0 a	98.3 a
Classic	0.31 oz ai/a	A						
Rumble (1.88 L)	6 oz ai/a	B						
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B						
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
4 Valor SX (51 WG)	0.9 oz ai/a	A	88.0 a	99.0 a	0.8 a	99.0 a	96.8 a	97.0 a
Classic	0.31 oz ai/a	A						
Flexstar (1.88 L)	3.76 oz ai/a	B						
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B						
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
5 Valor SX (51 WG)	0.9 oz ai/a	A	93.5 a	99.0 a	0.8 a	99.0 a	96.5 a	97.8 a
Classic	0.31 oz ai/a	A						
Flexstar (1.88 L)	6 oz ai/a	B						
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B						
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
6 Valor SX (51 WG)	0.9 oz ai/a	A	86.8 a	99.0 a	2.8 a	99.0 a	99.0 a	98.0 a
Classic	0.31 oz ai/a	A						
Vice (5.4 EC)	21.6 oz ai/a	B						
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B						
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						

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Pest Type	W Weed AMBTR	W Weed CHEAL	W Weed SETFA	W Weed AMBTR	W Weed AMBTR			
Pest Code	Ambrosia trifi> Giant ragweed	Chenopodium al> Common lambsqu>	Setaria faberi Giant foxtail	Ambrosia trifi> Giant ragweed	Ambrosia trifi> Giant ragweed			
Pest Scientific Name			GLXMA GLXMA	GLXMA GLXMA	GLXMA GLXMA			
Pest Name			BSOY BSOY	BSOY BSOY	BSOY BSOY			
Crop Code			Glycine max Soybean	Glycine max Soybean	Glycine max Soybean			
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date	Jul-15-2013	Jul-15-2013	Jul-15-2013	Aug-12-2013	Aug-12-2013			
Rating Type	CONTRO	CONTRO	PHYSTU	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Crop Stage Majority	R2	R2	R2	R2	R2			
Pest Stage Majority				36 IN	48 IN			
Pest Density, Unit				10 FT2	5 YD2			
Assessed By				MW	MW			
Days After First/Last Applic.	60 31	60 31	60 31	88 59	88 59			
Plant-Eval Interval	60 DP-1	60 DP-1	60 DP-1	88 DP-1	88 DP-1			
Days After Emergence	54 DE-1	54 DE-1	54 DE-1	82 DE-1	82 DE-1			
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	8	9	10	11	12	13
7 Valor SX (51 WG)	0.9 oz ai/a	A	90.0 a	99.0 a	3.3 a	99.0 a	99.0 a	97.8 a
Classic	0.31 oz ai/a	A						
Prefix (5.29 EC)	21.2 oz ai/a	B						
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B						
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
8 Valor SX (51 WG)	0.9 oz ai/a	A	90.0 a	99.0 a	0.8 a	99.0 a	98.0 a	98.8 a
Classic	0.31 oz ai/a	A						
Pummel (5.25 ME)	0.98 lb ai/a	B						
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B						
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
9 Valor SX (51 WG)	0.9 oz ai/a	A	91.5 a	99.0 a	0.0 a	99.0 a	99.0 a	98.5 a
Classic	0.31 oz ai/a	A						
Pummel (5.25 ME)	1.31 lb ai/a	B						
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B						
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
10 Valor SX (51 WG)	0.9 oz ai/a	A	83.8 a	99.0 a	0.8 a	99.0 a	96.0 a	96.8 a
Classic	0.31 oz ai/a	A						
Torment (2.5 SL)	3.75 oz ai/a	B						
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B						
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
11 Valor SX (51 WG)	0.9 oz ai/a	A	90.8 a	99.0 a	0.8 a	99.0 a	98.0 a	96.3 a
Classic	0.31 oz ai/a	A						
Torment (2.5 SL)	5 oz ai/a	B						
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B						
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
12 Valor SX (51 WG)	0.9 oz ai/a	A	86.5 a	99.0 a	2.8 a	99.0 a	97.0 a	97.0 a
Classic	0.31 oz ai/a	A						
Pursuit	1 oz ai/a	B						
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B						
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
13 Valor SX (51 WG)	0.9 oz ai/a	A	81.3 a	99.0 a	1.3 a	99.0 a	96.5 a	94.8 a
Classic	0.31 oz ai/a	A						
Extreme (2.17 SL)	11.4 oz ai/a	B						
NIS	0.25 % v/v	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
Pest Code	AMBTR	CHEAL		SETFA	AMBTR
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>		Setaria faberi	Ambrosia trifi>
Pest Name	Giant ragweed	Common lambsqu>		Giant foxtail	Giant ragweed
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	Jul-15-2013	Jul-15-2013	Jul-15-2013	Aug-12-2013	Aug-12-2013
Rating Type	CONTRO	CONTRO	PHYSTU	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	R2	R2	R2	R2	R2
Pest Stage Majority				36 IN	48 IN
Pest Density, Unit				10 FT2	5 YD2
Assessed By				MW	MW
Days After First/Last Applic.	60 31	60 31	60 31	88 59	88 59
Plant-Eval Interval	60 DP-1	60 DP-1	60 DP-1	88 DP-1	88 DP-1
Days After Emergence	54 DE-1	54 DE-1	54 DE-1	82 DE-1	82 DE-1
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	8	9	10
14 Valor SX (51 WG)	0.9 oz ai/a	A	85.8 a	99.0 a	0.8 a
Classic	0.31 oz ai/a	A			
Warrant (3 CS)	13.5 oz ai/a	B			
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B			
NIS	0.25 % v/v	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
15 Valor SX (51 WG)	0.9 oz ai/a	A	88.3 a	99.0 a	0.0 a
Classic	0.31 oz ai/a	A			
Cobra	1.5 oz ai/a	B			
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B			
NIS	0.25 % v/v	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
16 Valor SX (51 WG)	0.9 oz ai/a	A	87.5 a	99.0 a	0.0 a
Classic	0.31 oz ai/a	A			
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B			
NIS	0.25 % v/v	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
17 Valor SX (51 WG)	0.9 oz ai/a	A	7.5 b	99.0 a	0.0 a
Classic	0.31 oz ai/a	A			
LSD (P=.05)	8.45	0.00	2.20	1.72	7.81
Standard Deviation	5.91	0.00	1.54	1.20	5.46
CV	7.52	0.0	143.5	1.22	6.04
Bartlett's X2	25.547	0.0	2.639	1.771	39.346
P(Bartlett's X2)	0.043*	.	0.995	0.183	0.001*
Replicate F	7.109	0.000	0.469	0.741	0.573
Replicate Prob(F)	0.0005	1.0000	0.7054	0.5328	0.6355
Treatment F	92.342	0.000	1.933	0.939	56.693
Treatment Prob(F)	0.0001	1.0000	0.0403	0.5332	0.0001

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Pest Type			W Weed	
Pest Code			CHEAL	
Pest Scientific Name			Chenopodium al>	
Pest Name			Common lambsqu>	
Crop Code				GLXMA
BBCB Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date			Sep-24-2013	Sep-25-2013
Rating Type			CONTRO	YIELD
Rating Unit			%	bu/ac
Number of Subsamples			1	1
Crop Stage Majority				
Pest Stage Majority				
Pest Density, Unit				
Assessed By				
Days After First/Last Applic.			131 102	132 103
Plant-Eval Interval			131 DP-1	132 DP-1
Days After Emergence			125 DE-1	126 DE-1
Trt No.	Treatment	Rate	Appl	
	Name	Rate Unit	Code	
				14 15
1	Untreated Check			0.0 b 26.90 b
2	Valor SX (51 WG)	0.9 oz ai/a	A	99.0 a 92.90 a
	Classic	0.31 oz ai/a	A	
	Rumble (1.88 L)	3.76 oz ai/a	B	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B	
	NIS	0.25 % v/v	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
3	Valor SX (51 WG)	0.9 oz ai/a	A	99.0 a 95.18 a
	Classic	0.31 oz ai/a	A	
	Rumble (1.88 L)	6 oz ai/a	B	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B	
	NIS	0.25 % v/v	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
4	Valor SX (51 WG)	0.9 oz ai/a	A	99.0 a 84.20 a
	Classic	0.31 oz ai/a	A	
	Flexstar (1.88 L)	3.76 oz ai/a	B	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B	
	NIS	0.25 % v/v	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
5	Valor SX (51 WG)	0.9 oz ai/a	A	99.0 a 87.53 a
	Classic	0.31 oz ai/a	A	
	Flexstar (1.88 L)	6 oz ai/a	B	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B	
	NIS	0.25 % v/v	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
6	Valor SX (51 WG)	0.9 oz ai/a	A	99.0 a 90.75 a
	Classic	0.31 oz ai/a	A	
	Vice (5.4 EC)	21.6 oz ai/a	B	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B	
	NIS	0.25 % v/v	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	

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Pest Type			W Weed	
Pest Code			CHEAL	
Pest Scientific Name			Chenopodium al>	
Pest Name			Common lambsqu>	
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date			Sep-24-2013	Sep-25-2013
Rating Type			CONTRO	YIELD
Rating Unit			%	bu/ac
Number of Subsamples			1	1
Crop Stage Majority				
Pest Stage Majority				
Pest Density, Unit				
Assessed By				
Days After First/Last Applic.			131 102	132 103
Plant-Eval Interval			131 DP-1	132 DP-1
Days After Emergence			125 DE-1	126 DE-1
Trt No.	Treatment	Rate	Appl Code	
		Rate Unit		
			14	15
7	Valor SX (51 WG)	0.9 oz ai/a	A	99.0 a
	Classic	0.31 oz ai/a	A	93.68 a
	Prefix (5.29 EC)	21.2 oz ai/a	B	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B	
	NIS	0.25 % v/v	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
8	Valor SX (51 WG)	0.9 oz ai/a	A	99.0 a
	Classic	0.31 oz ai/a	A	92.75 a
	Pummel (5.25 ME)	0.98 lb ai/a	B	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B	
	NIS	0.25 % v/v	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
9	Valor SX (51 WG)	0.9 oz ai/a	A	99.0 a
	Classic	0.31 oz ai/a	A	93.60 a
	Pummel (5.25 ME)	1.31 lb ai/a	B	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B	
	NIS	0.25 % v/v	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
10	Valor SX (51 WG)	0.9 oz ai/a	A	99.0 a
	Classic	0.31 oz ai/a	A	88.80 a
	Torment (2.5 SL)	3.75 oz ai/a	B	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B	
	NIS	0.25 % v/v	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
11	Valor SX (51 WG)	0.9 oz ai/a	A	99.0 a
	Classic	0.31 oz ai/a	A	86.15 a
	Torment (2.5 SL)	5 oz ai/a	B	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B	
	NIS	0.25 % v/v	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
12	Valor SX (51 WG)	0.9 oz ai/a	A	99.0 a
	Classic	0.31 oz ai/a	A	83.58 a
	Pursuit	1 oz ai/a	B	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B	
	NIS	0.25 % v/v	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
13	Valor SX (51 WG)	0.9 oz ai/a	A	99.0 a
	Classic	0.31 oz ai/a	A	81.43 a
	Extreme (2.17 SL)	11.4 oz ai/a	B	
	NIS	0.25 % v/v	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	

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Pest Type			W Weed	
Pest Code			CHEAL	
Pest Scientific Name			Chenopodium al>	
Pest Name			Common lambsqu>	
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date			Sep-24-2013	Sep-25-2013
Rating Type			CONTRO	YIELD
Rating Unit			%	bu/ac
Number of Subsamples			1	1
Crop Stage Majority				
Pest Stage Majority				
Pest Density, Unit				
Assessed By				
Days After First/Last Applic.			131 102	132 103
Plant-Eval Interval			131 DP-1	132 DP-1
Days After Emergence			125 DE-1	126 DE-1
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	14	15
14 Valor SX (51 WG)	0.9 oz ai/a	A	99.0 a	88.45 a
Classic	0.31 oz ai/a	A		
Warrant (3 CS)	13.5 oz ai/a	B		
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B		
NIS	0.25 % v/v	B		
AMS - Liquid	8.5 lb ai/100 gal	B		
15 Valor SX (51 WG)	0.9 oz ai/a	A	99.0 a	89.45 a
Classic	0.31 oz ai/a	A		
Cobra	1.5 oz ai/a	B		
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B		
NIS	0.25 % v/v	B		
AMS - Liquid	8.5 lb ai/100 gal	B		
16 Valor SX (51 WG)	0.9 oz ai/a	A	99.0 a	86.80 a
Classic	0.31 oz ai/a	A		
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B		
NIS	0.25 % v/v	B		
AMS - Liquid	8.5 lb ai/100 gal	B		
17 Valor SX (51 WG)	0.9 oz ai/a	A		
Classic	0.31 oz ai/a	A		
LSD (P=.05)			0.00	17.409
Standard Deviation			0.00	12.182
CV			0.0	14.92
Bartlett's X2			0.0	63.661
P(Bartlett's X2)			.	0.001*
Replicate F			0.000	0.849
Replicate Prob(F)			1.0000	0.4740
Treatment F			0.000	11.975
Treatment Prob(F)			1.0000	0.0001

Purdue University

MANA Soybean Concepts - Post Program

Trial ID: 13S-THP-CTS-53 Protocol ID: 13S-THP-CTS-53
 Location: Throckmorton Study Director:
 Project ID: 13-HER-CR-55-2612213-5 Investigator: Dr. Bill Johnson
 Sponsor Contact: MANA Crop Protection

Pest Type

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

Pest Code

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

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

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

Rating Unit

% = percent
 bu/ac = bushels per acre

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

36 DP-1 = 1 GLXMA May-16-2013
 41 DP-1 = 1 GLXMA May-16-2013
 60 DP-1 = 1 GLXMA May-16-2013
 88 DP-1 = 1 GLXMA May-16-2013
 131 DP-1 = 1 GLXMA May-16-2013
 132 DP-1 = 1 GLXMA May-16-2013