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2014/SOYBEAN/AUTHORITY/ANTHEM/CADET/MARVEL/PRE/POST/RR PROGRAMS/

Trial ID: 14S-THP-CTS-50-2 Protocol ID: 14S-THP-CTS-50-2
 Location: Throckmorton Study Director:
 Project ID: SULF.SOY.14.JPR.01(a) Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC - Joe Reed

General Trial Information

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

Discipline: H herbicide
Trial Status: E established

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:** 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 2933 **Description:** RR2
BBCH Scale: BSOY **Planting Date:** May-7-2014
Planting Method: SEEDED seeded **Rate, Unit:** 130000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN
Seed Bed: FINE fine
Soil Moisture: DRY dry **Emergence Date:** May-13-2014

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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Soil Description

Description Name: TPAC - Field 4B
% OM: 2.9 **Texture:** SIL silt loam
pH: 6.2 **Soil Name:** Toronto-Millbrook
CEC: 13.3

Application Description

	A	B
Application Date:	May-8-2014	Jun-9-2014
Time of Day:	AM	PM
Application Method:	SPRAY	SPRAY
Application Timing:	ATPLAN	EAPOCR
Application Placement:	SOIL	FOLIAR
Air Temperature, Unit:	74 F	81 F
% Relative Humidity:	62	55
Wind Velocity, Unit:	10 mph	5.5 mph
Wind Direction:	SW	SW
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	64 F	80 F
Soil Moisture:	Dry	Moist
% Cloud Cover:	15	95

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:	00	13

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height Minimum, Maximum:		1 7
Density, Unit:		8 FT2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height Minimum, Maximum:		1 12
Density, Unit:		3 FT2
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Height Minimum, Maximum:		1 2
Density, Unit:		6 FT2
Pest 4 Code, Type, Scale:	ABUTH W	ABUTH W
Height Minimum, Maximum:		1 4
Density, Unit:		2 YD2

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Application Equipment

	A	B
Appl. Equipment:	CO2 FORD	CO2 FORD
Equipment Type:	SPTRMO	SPTRMO
Operation Pressure, Unit:	25 PSI	25 PSI
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
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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2014/SOYBEAN/AUTHORITY/ANTHEM/CADET/MARVEL/PRE/POST/RR PROGRAMS/

Trial ID: 14S-THP-CTS-50-2 Protocol ID: 14S-THP-CTS-50-2
 Location: Throckmorton Study Director:
 Project ID: SULF.SOY.14.JPR.01(a) Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC - Joe Reed

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 Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check												101	405	703	907
2	AUTHORITY FIRST DF	70 %W/W	WG		4.5 oz ai/a		6.4 oz/a		ATPLAN A			6.018 g/mx	103	307	603	905
	CADET	0.91 LB/GAL	EC		0.068 oz ai/a		0.6 oz/a		EAPOCR B	V1-3		0.5837 ml/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR B	V1-3		31.36 ml/mx				
	COC				1 % v/v		1 % v/v		EAPOCR B	V1-3		25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR B	V1-3		125.0 ml/mx				
3	AUTHORITY FIRST DF	70 %W/W	WG		4.5 oz ai/a		6.4 oz/a		ATPLAN A			6.018 g/mx	105	501	701	1007
	MARVEL	3 LB/GAL	SC		2.72 oz ai/a		7.25 oz/a		EAPOCR B	V1-3		7.083 ml/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR B	V1-3		31.36 ml/mx				
	COC				1 % v/v		1 % v/v		EAPOCR B	V1-3		25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR B	V1-3		125.0 ml/mx				
4	AUTHORITY FIRST DF	70 %W/W	WG		2.8 oz ai/a		4 oz/a		ATPLAN A			3.745 g/mx	107	403	605	1001
	MARVEL	3 LB/GAL	SC		2.72 oz ai/a		7.25 oz/a		EAPOCR B	V1-3		7.083 ml/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR B	V1-3		31.36 ml/mx				
	COC				1 % v/v		1 % v/v		EAPOCR B	V1-3		25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR B	V1-3		125.0 ml/mx				
5	AUTHORITY MTZ	45 %W/W	WG		5.4 oz ai/a		12 oz/a		ATPLAN A			11.23 g/mx	201	507	803	1003
	CADET	0.91 LB/GAL	EC		0.068 oz ai/a		0.6 oz/a		EAPOCR B	V1-3		0.5837 ml/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR B	V1-3		31.36 ml/mx				
	COC				1 % v/v		1 % v/v		EAPOCR B	V1-3		25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR B	V1-3		125.0 ml/mx				
6	AUTHORITY MTZ	45 %W/W	WG		5.4 oz ai/a		12 oz/a		ATPLAN A			11.23 g/mx	203	407	601	903
	MARVEL	3 LB/GAL	SC		2.72 oz ai/a		7.25 oz/a		EAPOCR B	V1-3		7.083 ml/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR B	V1-3		31.36 ml/mx				
	COC				1 % v/v		1 % v/v		EAPOCR B	V1-3		25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR B	V1-3		125.0 ml/mx				
7	AUTHORITY XL	70 %W/W	WG		2.8 oz ai/a		4 oz/a		ATPLAN A			3.745 g/mx	205	305	707	805
	CADET	0.91 LB/GAL	EC		0.068 oz ai/a		0.6 oz/a		EAPOCR B	V1-3		0.5837 ml/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR B	V1-3		31.36 ml/mx				
	COC				1 % v/v		1 % v/v		EAPOCR B	V1-3		25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR B	V1-3		125.0 ml/mx				
8	AUTHORITY XL	70 %W/W	WG		2.8 oz ai/a		4 oz/a		ATPLAN A			3.745 g/mx	207	505	607	901
	MARVEL	3 LB/GAL	SC		2.72 oz ai/a		7.25 oz/a		EAPOCR B	V1-3		7.083 ml/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR B	V1-3		31.36 ml/mx				
	COC				1 % v/v		1 % v/v		EAPOCR B	V1-3		25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR B	V1-3		125.0 ml/mx				
9	Authority Maxx (66 SG)	66 %	WG		3.96 oz ai/a		6 oz/a		ATPLAN A			5.617 g/mx	301	401	705	807
	CADET	0.91 LB/GAL	EC		0.068 oz ai/a		0.6 oz/a		EAPOCR B	V1-3		0.5837 ml/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR B	V1-3		31.36 ml/mx				
	COC				1 % v/v		1 % v/v		EAPOCR B	V1-3		25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR B	V1-3		125.0 ml/mx				
10	Authority Maxx (66 SG)	66 %	WG		3.96 oz ai/a		6 oz/a		ATPLAN A			5.617 g/mx	303	503	801	1005
	MARVEL	3 LB/GAL	SC		2.72 oz ai/a		7.25 oz/a		EAPOCR B	V1-3		7.083 ml/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR B	V1-3		31.36 ml/mx				
	COC				1 % v/v		1 % v/v		EAPOCR B	V1-3		25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR B	V1-3		125.0 ml/mx				
11	AUTHORITY ASSIST	4 LB/GAL	SC		2.5 oz ai/a		5 oz/a		ATPLAN A			4.882 ml/mx	102	308	708	1002
	CADET	0.91 LB/GAL	EC		0.068 oz ai/a		0.6 oz/a		EAPOCR B	V1-3		0.5837 ml/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR B	V1-3		31.36 ml/mx				
	COC				1 % v/v		1 % v/v		EAPOCR B	V1-3		25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR B	V1-3		125.0 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
12	AUTHORITY ASSIST	4 LB/GAL	SC		2.5 oz ai/a		5 oz/a		ATPLAN	A		4.882 ml/mx		104	408	702	904
	MARVEL	3 LB/GAL	SC		2.72 oz ai/a		7.25 oz/a		EAPOCR	B	V1-3	7.083 ml/mx					
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR	B	V1-3	31.36 ml/mx					
	COC				1 % v/v		1 % v/v		EAPOCR	B	V1-3	25.0 ml/mx					
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR	B	V1-3	125.0 ml/mx					
13	AUTHORITY ELITE	7 LB/GAL	SC		21.9 oz ai/a		25 oz/a		ATPLAN	A		24.44 ml/mx		106	406	602	902
	CADET	0.91 LB/GAL	EC		0.068 oz ai/a		0.6 oz/a		EAPOCR	B	V1-3	0.5837 ml/mx					
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR	B	V1-3	31.36 ml/mx					
	COC				1 % v/v		1 % v/v		EAPOCR	B	V1-3	25.0 ml/mx					
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR	B	V1-3	125.0 ml/mx					
14	AUTHORITY ELITE	7 LB/GAL	SC		21.9 oz ai/a		25 oz/a		ATPLAN	A		24.44 ml/mx		108	306	604	908
	MARVEL	3 LB/GAL	SC		2.72 oz ai/a		7.25 oz/a		EAPOCR	B	V1-3	7.083 ml/mx					
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR	B	V1-3	31.36 ml/mx					
	COC				1 % v/v		1 % v/v		EAPOCR	B	V1-3	25.0 ml/mx					
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR	B	V1-3	125.0 ml/mx					
15	AUTHORITY FIRST DF	70 %W/W	WG		2.8 oz ai/a		4 oz/a		ATPLAN	A		3.745 g/mx		202	506	608	808
	ANTHEM	2.15 LBA/GAL	SE		1.61 oz ai/a		6 oz/a		EAPOCR	B	V1-3	5.85 ml/mx					
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR	B	V1-3	31.36 ml/mx					
	COC				1 % v/v		1 % v/v		EAPOCR	B	V1-3	25.0 ml/mx					
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR	B	V1-3	125.0 ml/mx					
16	AUTHORITY FIRST DF	70 %W/W	WG		4.5 oz ai/a		6.4 oz/a		ATPLAN	A		6.018 g/mx		204	404	704	806
	ANTHEM	2.15 LBA/GAL	SE		1.61 oz ai/a		6 oz/a		EAPOCR	B	V1-3	5.85 ml/mx					
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR	B	V1-3	31.36 ml/mx					
	COC				1 % v/v		1 % v/v		EAPOCR	B	V1-3	25.0 ml/mx					
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR	B	V1-3	125.0 ml/mx					
17	AUTHORITY MTZ	45 %W/W	WG		5.4 oz ai/a		12 oz/a		ATPLAN	A		11.23 g/mx		206	402	804	906
	ANTHEM	2.15 LBA/GAL	SE		1.61 oz ai/a		6 oz/a		EAPOCR	B	V1-3	5.85 ml/mx					
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR	B	V1-3	31.36 ml/mx					
	COC				1 % v/v		1 % v/v		EAPOCR	B	V1-3	25.0 ml/mx					
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR	B	V1-3	125.0 ml/mx					
18	AUTHORITY XL	70 %W/W	WG		2.8 oz ai/a		4 oz/a		ATPLAN	A		3.745 g/mx		208	504	706	1006
	ANTHEM	2.15 LBA/GAL	SE		1.61 oz ai/a		6 oz/a		EAPOCR	B	V1-3	5.85 ml/mx					
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR	B	V1-3	31.36 ml/mx					
	COC				1 % v/v		1 % v/v		EAPOCR	B	V1-3	25.0 ml/mx					
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR	B	V1-3	125.0 ml/mx					
19	Authority Maxx (66 SG)	66 %	WG		2.64 oz ai/a		4 oz/a		ATPLAN	A		3.745 g/mx		302	508	802	1004
	ANTHEM	2.15 LBA/GAL	SE		1.61 oz ai/a		6 oz/a		EAPOCR	B	V1-3	5.85 ml/mx					
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR	B	V1-3	31.36 ml/mx					
	COC				1 % v/v		1 % v/v		EAPOCR	B	V1-3	25.0 ml/mx					
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR	B	V1-3	125.0 ml/mx					
20	AUTHORITY ELITE	7 LB/GAL	EC		21.9 oz ai/a		25 oz/a		ATPLAN	A		24.44 ml/mx		304	502	606	1008
	ANTHEM	2.15 LBA/GAL	SE		1.61 oz ai/a		6 oz/a		EAPOCR	B	V1-3	5.85 ml/mx					
	ROUNDUP POWERMAX	5.5 LB/GAL	SL		1.38 lb ai/a		32 oz/a		EAPOCR	B	V1-3	31.36 ml/mx					
	COC				1 % v/v		1 % v/v		EAPOCR	B	V1-3	25.0 ml/mx					
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal		20 qt/100 gal		EAPOCR	B	V1-3	125.0 ml/mx					

Sort Order: Treatment

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2014/SOYBEAN/AUTHORITY/ANTHEM/CADET/MARVEL/PRE/POST/RR PROGRAMS/

Trial ID: 14S-THP-CTS-50-2 Protocol ID: 14S-THP-CTS-50-2
 Location: Throckmorton Study Director:
 Project ID: SULF.SOY.14.JPR.01(a) Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC - Joe Reed

Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed		
Pest Code	SETFA	AMBTR	ABUTH		SETFA	AMBTR		
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Abutilon theop>		Setaria faberi	Ambrosia trifi>		
Pest Name	Giant foxtail	Giant ragweed	Velvetleaf		Giant foxtail	Giant ragweed		
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
BBCB Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max		
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean		
Rating Date	May-22-2014	May-22-2014	May-22-2014	May-28-2014	Jun-3-2014	Jun-3-2014		
Rating Type				STAND	CONTRO	CONTRO		
Rating Unit				%	%	%		
Sample Size, Unit				1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority					1-4"	1-3"		
Pest Stage Majority					10 FT2	3 YD2		
Pest Density, Unit	20 FT2	6 YD2	2 YD2					
Assessed By	GT and KA	GT and KA	GT and KA					
Days After First/Last Applic.	14 14	14 14	14 14	20 20	26 26	26 26		
Trt-Eval Interval	14 DA-A							
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	21 DP-1	27 DP-1	27 DP-1		
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	15 DE-1	21 DE-1	21 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
1 Untreated Check		101	0.0	0.0	0.0	85.0	0.0	0.0
		405	0.0	0.0	0.0	85.0	0.0	0.0
		703	0.0	0.0	0.0	95.0	0.0	0.0
		907	0.0	0.0	0.0	87.0	0.0	0.0
		Mean =	0.0	0.0	0.0	88.0	0.0	0.0
2 AUTHORITY FIRST DF	4.5 oz ai/a	A 103	95.0	90.0	99.0	40.0	60.0	80.0
CADET	0.068 oz ai/a	B 307	99.0	99.0	99.0	30.0	99.0	90.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 603	99.0	95.0	99.0	50.0	80.0	95.0
COC	1 % v/v	B 905	99.0	85.0	99.0	70.0	99.0	70.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	98.0	92.3	99.0	47.5	84.5	83.8
3 AUTHORITY FIRST DF	4.5 oz ai/a	A 105	99.0	85.0	99.0	30.0	75.0	85.0
MARVEL	2.72 oz ai/a	B 501	99.0	99.0	99.0	40.0	30.0	95.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 701	99.0	80.0	99.0	75.0	60.0	95.0
COC	1 % v/v	B 1007	99.0	95.0	99.0	55.0	30.0	95.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	89.8	99.0	50.0	48.8	92.5
4 AUTHORITY FIRST DF	2.8 oz ai/a	A 107	99.0	80.0	99.0	75.0	60.0	80.0
MARVEL	2.72 oz ai/a	B 403	95.0	95.0	99.0	45.0	50.0	80.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 605	99.0	99.0	99.0	67.0	80.0	90.0
COC	1 % v/v	B 1001	99.0	99.0	99.0	73.0	50.0	95.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	98.0	93.3	99.0	65.0	60.0	86.3
5 AUTHORITY MTZ	5.4 oz ai/a	A 201	95.0	85.0	99.0	55.0	0.0	60.0
CADET	0.068 oz ai/a	B 507	99.0	99.0	99.0	77.0	0.0	75.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 803	99.0	60.0	99.0	70.0	20.0	40.0
COC	1 % v/v	B 1003	99.0	70.0	99.0	65.0	0.0	30.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	98.0	78.5	99.0	66.8	5.0	51.3

Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	ABUTH	SETFA	AMBTR			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Abutilon theop>	Setaria faberi	Ambrosia trifi>			
Pest Name	Giant foxtail	Giant ragweed	Velvetleaf	Giant foxtail	Giant ragweed			
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA			
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY			
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max			
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean			
Rating Date	May-22-2014	May-22-2014	May-22-2014	May-28-2014	Jun-3-2014			
Rating Type				STAND	CONTRO			
Rating Unit				%	%			
Sample Size, Unit				1 PLOT	1 PLOT			
Number of Subsamples	1	1	1	1	1			
Crop Stage Majority								
Pest Stage Majority				1-4"	1-3"			
Pest Density, Unit	20 FT2	6 YD2	2 YD2	10 FT2	3 YD2			
Assessed By	GT and KA	GT and KA	GT and KA					
Days After First/Last Applic.	14 14	14 14	14 14	20 20	26 26			
Trt-Eval Interval	14 DA-A							
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	21 DP-1	27 DP-1			
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	15 DE-1	21 DE-1			
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
6 AUTHORITY MTZ	5.4 oz ai/a	A 203	95.0	75.0	99.0	50.0	0.0	80.0
MARVEL	2.72 oz ai/a	B 407	99.0	70.0	99.0	30.0	90.0	20.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 601	99.0	90.0	99.0	87.0	0.0	70.0
COC	1 % v/v	B 903	99.0	50.0	99.0	80.0	95.0	40.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	98.0	71.3	99.0	61.8	46.3	52.5
7 AUTHORITY XL	2.8 oz ai/a	A 205	95.0	99.0	99.0	45.0	60.0	90.0
CADET	0.068 oz ai/a	B 305	99.0	95.0	99.0	55.0	80.0	80.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 707	99.0	99.0	99.0	70.0	80.0	60.0
COC	1 % v/v	B 805	99.0	97.0	99.0	75.0	75.0	90.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	98.0	97.5	99.0	61.3	73.8	80.0
8 AUTHORITY XL	2.8 oz ai/a	A 207	99.0	85.0	99.0	60.0	60.0	85.0
MARVEL	2.72 oz ai/a	B 505	99.0	99.0	99.0	50.0	99.0	90.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 607	99.0	99.0	99.0	65.0	99.0	90.0
COC	1 % v/v	B 901	90.0	90.0	99.0	75.0	60.0	99.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	96.8	93.3	99.0	62.5	79.5	91.0
9 Authority Maxx (66 SG)	3.96 oz ai/a	A 301	99.0	90.0	99.0	40.0	30.0	90.0
CADET	0.068 oz ai/a	B 401	99.0	80.0	99.0	45.0	95.0	0.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 705	99.0	90.0	99.0	50.0	70.0	80.0
COC	1 % v/v	B 807	99.0	80.0	99.0	55.0	99.0	0.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	85.0	99.0	47.5	73.5	42.5
10 Authority Maxx (66 SG)	3.96 oz ai/a	A 303	99.0	95.0	99.0	60.0	30.0	90.0
MARVEL	2.72 oz ai/a	B 503	99.0	95.0	99.0	50.0	90.0	70.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 801	90.0	95.0	99.0	60.0	30.0	40.0
COC	1 % v/v	B 1005	99.0	95.0	99.0	60.0	75.0	80.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	96.8	95.0	99.0	57.5	56.3	70.0
11 AUTHORITY ASSIST	2.5 oz ai/a	A 102	90.0	80.0	99.0	50.0	20.0	40.0
CADET	0.068 oz ai/a	B 308	90.0	90.0	99.0	87.0	0.0	80.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 708	99.0	95.0	99.0	80.0	60.0	50.0
COC	1 % v/v	B 1002	90.0	90.0	99.0	60.0	0.0	90.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	92.3	88.8	99.0	69.3	20.0	65.0

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	ABUTH	SETFA	AMBTR			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Abutilon theop>	Setaria faberi	Ambrosia trifi>			
Pest Name	Giant foxtail	Giant ragweed	Velvetleaf	Giant foxtail	Giant ragweed			
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA			
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY			
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max			
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean			
Rating Date	May-22-2014	May-22-2014	May-22-2014	May-28-2014	Jun-3-2014			
Rating Type				STAND	CONTRO			
Rating Unit				%	%			
Sample Size, Unit				1 PLOT	1 PLOT			
Number of Subsamples	1	1	1	1	1			
Crop Stage Majority					1-4"			
Pest Stage Majority					1-3"			
Pest Density, Unit	20 FT2	6 YD2	2 YD2	10 FT2	3 YD2			
Assessed By	GT and KA	GT and KA	GT and KA					
Days After First/Last Applic.	14 14	14 14	14 14	20 20	26 26			
Trt-Eval Interval	14 DA-A							
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	21 DP-1	27 DP-1			
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	15 DE-1	21 DE-1			
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
12 AUTHORITY ASSIST	2.5 oz ai/a	A 104	99.0	50.0	99.0	65.0	20.0	30.0
MARVEL	2.72 oz ai/a	B 408	99.0	85.0	99.0	65.0	49.6*	60.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 702	99.0	85.0	99.0	65.0	30.0	50.0
COC	1 % v/v	B 904	99.0	90.0	99.0	85.0	70.0	20.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	77.5	99.0	70.0	42.4	40.0
13 AUTHORITY ELITE	21.9 oz ai/a	A 106	99.0	80.0	99.0	60.0	99.0	60.0
CADET	0.068 oz ai/a	B 406	99.0	85.0	99.0	70.0	99.0	40.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 602	99.0	99.0	99.0	45.0	99.0	70.0
COC	1 % v/v	B 902	99.0	99.0	99.0	60.0	80.0	80.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	90.8	99.0	58.8	94.3	62.5
14 AUTHORITY ELITE	21.9 oz ai/a	A 108	99.0	70.0	99.0	85.0	90.0	30.0
MARVEL	2.72 oz ai/a	B 306	99.0	80.0	99.0	55.0	99.0	10.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 604	99.0	90.0	99.0	60.0	99.0	75.0
COC	1 % v/v	B 908	99.0	95.0	99.0	75.0	85.0	50.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	83.8	99.0	68.8	93.3	41.3
15 AUTHORITY FIRST DF	2.8 oz ai/a	A 202	95.0	95.0	99.0	40.0	0.0	95.0
ANTHEM	1.61 oz ai/a	B 506	99.0	85.0	99.0	70.0	0.0	80.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 608	99.0	90.0	99.0	75.0	99.0	70.0
COC	1 % v/v	B 808	99.0	90.0	99.0	85.0	95.0	80.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	98.0	90.0	99.0	67.5	48.5	81.3
16 AUTHORITY FIRST DF	4.5 oz ai/a	A 204	99.0	99.0	99.0	50.0	50.0	85.0
ANTHEM	1.61 oz ai/a	B 404	99.0	90.0	99.0	55.0	90.0	70.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 704	99.0	99.0	99.0	45.0	40.0	70.0
COC	1 % v/v	B 806	99.0	90.0	99.0	50.0	99.0	95.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	94.5	99.0	50.0	69.8	80.0
17 AUTHORITY MTZ	5.4 oz ai/a	A 206	95.0	80.0	99.0	60.0	0.0	60.0
ANTHEM	1.61 oz ai/a	B 402	99.0	50.0	99.0	25.0	30.0	0.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 804	99.0	40.0	99.0	80.0	40.0	0.0
COC	1 % v/v	B 906	99.0	80.0	99.0	55.0	50.0	50.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	98.0	62.5	99.0	55.0	30.0	27.5

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Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed		
Pest Code	SETFA	AMBTR	ABUTH		SETFA	AMBTR		
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Abutilon theop>		Setaria faberi	Ambrosia trifi>		
Pest Name	Giant foxtail	Giant ragweed	Velvetleaf		Giant foxtail	Giant ragweed		
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max		
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean		
Rating Date	May-22-2014	May-22-2014	May-22-2014	May-28-2014	Jun-3-2014	Jun-3-2014		
Rating Type				STAND	CONTRO	CONTRO		
Rating Unit				%	%	%		
Sample Size, Unit					1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority								
Pest Stage Majority					1-4"	1-3"		
Pest Density, Unit	20 FT2	6 YD2	2 YD2		10 FT2	3 YD2		
Assessed By	GT and KA	GT and KA	GT and KA					
Days After First/Last Applic.	14 14	14 14	14 14	20 20	26 26	26 26		
Trt-Eval Interval	14 DA-A							
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	21 DP-1	27 DP-1	27 DP-1		
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	15 DE-1	21 DE-1	21 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
18 AUTHORITY XL	2.8 oz ai/a	A 208	99.0	90.0	99.0	70.0	80.0	99.0
ANTHEM	1.61 oz ai/a	B 504	99.0	95.0	99.0	65.0	99.0	90.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 706	99.0	95.0	99.0	60.0	50.0	70.0
COC	1 % v/v	B 1006	99.0	90.0	99.0	70.0	50.0	60.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	92.5	99.0	66.3	69.8	79.8
19 Authority Maxx (66 SG)	2.64 oz ai/a	A 302	99.0	90.0	99.0	50.0	0.0	80.0
ANTHEM	1.61 oz ai/a	B 508	99.0	99.0	99.0	80.0	60.0	80.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 802	99.0	80.0	99.0	55.0	0.0	50.0
COC	1 % v/v	B 1004	99.0	85.0	99.0	53.0	20.0	70.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	88.5	99.0	59.5	20.0	70.0
20 AUTHORITY ELITE	21.9 oz ai/a	A 304	99.0	80.0	99.0	70.0	99.0	60.0
ANTHEM	1.61 oz ai/a	B 502	99.0	90.0	99.0	55.0	99.0	85.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 606	99.0	90.0	99.0	75.0	99.0	85.0
COC	1 % v/v	B 1008	99.0	95.0	99.0	75.0	99.0	80.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	88.8	99.0	68.8	99.0	77.5

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Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	7	8	9	10	11	12
1	Untreated Check				101 405 703 907	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	85.0 85.0 90.0 90.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
					Mean =	0.0	0.0	0.0	87.5	0.0	0.0
2	AUTHORITY FIRST DF	4.5 oz ai/a		A	103	99.0	87.0	85.0	40.0	0.0	0.0
	CADET	0.068 oz ai/a		B	307	99.0	95.0	87.0	20.0	0.0	0.0
	ROUNDUP POWERMAX	1.38 lb ai/a		B	603	99.0	93.0	90.0	65.0	0.0	0.0
	COC	1 % v/v		B	905	99.0	90.0	87.0	70.0	0.0	5.0
	AMS - Liquid	17 lb ai/100 gal		B							
					Mean =	99.0	91.3	87.3	48.8	0.0	1.3
3	AUTHORITY FIRST DF	4.5 oz ai/a		A	105	99.0	90.0	90.0	40.0	5.0	0.0
	MARVEL	2.72 oz ai/a		B	501	99.0	80.0	90.0	30.0	0.0	0.0
	ROUNDUP POWERMAX	1.38 lb ai/a		B	701	99.0	85.0	80.0	75.0	0.0	0.0
	COC	1 % v/v		B	1007	99.0	95.0	85.0	55.0	0.0	0.0
	AMS - Liquid	17 lb ai/100 gal		B							
					Mean =	99.0	87.5	86.3	50.0	1.3	0.0
4	AUTHORITY FIRST DF	2.8 oz ai/a		A	107	99.0	90.0	90.0	70.0	0.0	0.0
	MARVEL	2.72 oz ai/a		B	403	99.0	85.0	60.0	50.0	5.0	0.0
	ROUNDUP POWERMAX	1.38 lb ai/a		B	605	99.0	95.0	95.0	75.0	0.0	0.0
	COC	1 % v/v		B	1001	99.0	70.0	85.0	65.0	0.0	0.0
	AMS - Liquid	17 lb ai/100 gal		B							
					Mean =	99.0	85.0	82.5	65.0	1.3	0.0
5	AUTHORITY MTZ	5.4 oz ai/a		A	201	99.0	0.0	0.0	75.0	0.0	0.0
	CADET	0.068 oz ai/a		B	507	99.0	0.0	0.0	75.0	0.0	0.0
	ROUNDUP POWERMAX	1.38 lb ai/a		B	803	99.0	0.0	0.0	70.0	0.0	0.0
	COC	1 % v/v		B	1003	99.0	0.0	0.0	65.0	0.0	0.0
	AMS - Liquid	17 lb ai/100 gal		B							
					Mean =	99.0	0.0	0.0	71.3	0.0	0.0

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Pest Type	W Weed	W Weed	W Weed					
Pest Code	CHEAL	SETFA	AMBTR					
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>					
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed					
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max		
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean		
Rating Date	Jun-3-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014		
Rating Type	CONTRO	CONTRO	CONTRO	STAND	PHYLMA	PHYCHL		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT							
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority		V2	V2	V2	V2	V2		
Pest Stage Majority	1-2"	4"	6"					
Pest Density, Unit	2 FT2	15 FT2	5 YD2					
Assessed By								
Days After First/Last Applic.	26 26	32 32	32 32	32 32	32 32	32 32		
Trt-Eval Interval								
Plant-Eval Interval	27 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1		
Days After Emergence	21 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	7	8	9	10	11	12
6 AUTHORITY MTZ	5.4 oz ai/a	A 203	99.0	60.0	50.0	50.0	0.0	0.0
MARVEL	2.72 oz ai/a	B 407	99.0	90.0	30.0	30.0	0.0	0.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 601	99.0	50.0	0.0	85.0	0.0	0.0
COC	1 % v/v	B 903	99.0	80.0	0.0	55.0	0.0	0.0
AMS - Liquid	17 lb ai/100 gal B							
	Mean =		99.0	70.0	20.0	55.0	0.0	0.0
7 AUTHORITY XL	2.8 oz ai/a	A 205	99.0	60.0	85.0	50.0	0.0	0.0
CADET	0.068 oz ai/a	B 305	99.0	87.0	83.0	65.0	0.0	0.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 707	99.0	93.0	80.0	75.0	7.0	5.0
COC	1 % v/v	B 805	99.0	80.0	80.0	80.0	5.0	0.0
AMS - Liquid	17 lb ai/100 gal B							
	Mean =		99.0	80.0	82.0	67.5	3.0	1.3
8 AUTHORITY XL	2.8 oz ai/a	A 207	99.0	87.0	87.0	50.0	0.0	3.0
MARVEL	2.72 oz ai/a	B 505	99.0	93.0	77.0	55.0	0.0	0.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 607	99.0	93.0	86.0	70.0	3.0	0.0
COC	1 % v/v	B 901	99.0	70.0	60.0	60.0	0.0	0.0
AMS - Liquid	17 lb ai/100 gal B							
	Mean =		99.0	85.8	77.5	58.8	0.8	0.8
9 Authority Maxx (66 SG)	3.96 oz ai/a	A 301	99.0	60.0	85.0	40.0	0.0	7.0
CADET	0.068 oz ai/a	B 401	99.0	85.0	50.0	40.0	0.0	0.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 705	99.0	90.0	70.0	60.0	0.0	0.0
COC	1 % v/v	B 807	99.0	95.0	50.0	45.0	0.0	0.0
AMS - Liquid	17 lb ai/100 gal B							
	Mean =		99.0	82.5	63.8	46.3	0.0	1.8
10 Authority Maxx (66 SG)	3.96 oz ai/a	A 303	99.0	80.0	85.0	40.0	0.0	0.0
MARVEL	2.72 oz ai/a	B 503	99.0	93.0	80.0	50.0	0.0	0.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 801	99.0	85.0	60.0	30.0	0.0	0.0
COC	1 % v/v	B 1005	99.0	92.0	70.0	65.0	0.0	0.0
AMS - Liquid	17 lb ai/100 gal B							
	Mean =		99.0	87.5	73.8	46.3	0.0	0.0
11 AUTHORITY ASSIST	2.5 oz ai/a	A 102	99.0	50.0	60.0	60.0	0.0	0.0
CADET	0.068 oz ai/a	B 308	99.0	40.0	70.0	85.0	0.0	0.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 708	99.0	80.0	90.0	75.0	0.0	0.0
COC	1 % v/v	B 1002	99.0	40.0	87.0	60.0	0.0	0.0
AMS - Liquid	17 lb ai/100 gal B							
	Mean =		99.0	52.5	76.8	70.0	0.0	0.0

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Pest Type	W Weed	W Weed	W Weed					
Pest Code	CHEAL	SETFA	AMBTR					
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>					
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed					
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max		
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean		
Rating Date	Jun-3-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014		
Rating Type	CONTRO	CONTRO	CONTRO	STAND	PHYLMA	PHYCHL		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT							
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority		V2	V2	V2	V2	V2		
Pest Stage Majority	1-2"	4"	6"					
Pest Density, Unit	2 FT2	15 FT2	5 YD2					
Assessed By								
Days After First/Last Applic.	26 26	32 32	32 32	32 32	32 32	32 32		
Trt-Eval Interval								
Plant-Eval Interval	27 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1		
Days After Emergence	21 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	7	8	9	10	11	12
12 AUTHORITY ASSIST	2.5 oz ai/a	A 104	99.0	70.0	30.0	55.0	0.0	0.0
MARVEL	2.72 oz ai/a	B 408	99.0	90.0	40.0	70.0	5.0	0.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 702	99.0	87.0	60.0	65.0	0.0	0.0
COC	1 % v/v	B 904	99.0	83.0	30.0	80.0	0.0	0.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	82.5	40.0	67.5	1.3	0.0
13 AUTHORITY ELITE	21.9 oz ai/a	A 106	99.0	95.0	40.0	65.0	0.0	0.0
CADET	0.068 oz ai/a	B 406	99.0	95.0	30.0	50.0	0.0	0.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 602	99.0	95.0	65.0	65.0	0.0	0.0
COC	1 % v/v	B 902	99.0	85.0	75.0	75.0	0.0	0.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	92.5	52.5	63.8	0.0	0.0
14 AUTHORITY ELITE	21.9 oz ai/a	A 108	99.0	95.0	70.0	75.0	3.0	0.0
MARVEL	2.72 oz ai/a	B 306	99.0	95.0	40.0	50.0	0.0	0.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 604	99.0	95.0	50.0	75.0	0.0	0.0
COC	1 % v/v	B 908	99.0	94.0	60.0	80.0	0.0	0.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	94.8	55.0	70.0	0.8	0.0
15 AUTHORITY FIRST DF	2.8 oz ai/a	A 202	99.0	40.0	90.0	50.0	0.0	0.0
ANTHEM	1.61 oz ai/a	B 506	99.0	50.0	60.0	65.0	0.0	3.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 608	99.0	93.0	87.0	75.0	3.0	5.0
COC	1 % v/v	B 808	99.0	90.0	75.0	80.0	0.0	0.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	68.3	78.0	67.5	0.8	2.0
16 AUTHORITY FIRST DF	4.5 oz ai/a	A 204	99.0	85.0	75.0	40.0	0.0	0.0
ANTHEM	1.61 oz ai/a	B 404	99.0	90.0	80.0	40.0	0.0	0.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 704	99.0	85.0	75.0	50.0	3.0	5.0
COC	1 % v/v	B 806	99.0	93.0	80.0	50.0	0.0	0.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	88.3	77.5	45.0	0.8	1.3
17 AUTHORITY MTZ	5.4 oz ai/a	A 206	99.0	60.0	0.0	60.0	0.0	0.0
ANTHEM	1.61 oz ai/a	B 402	99.0	70.0	0.0	20.0	0.0	0.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 804	99.0	85.0	0.0	65.0	0.0	0.0
COC	1 % v/v	B 906	99.0	75.0	50.0	80.0	0.0	0.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	72.5	12.5	56.3	0.0	0.0

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Pest Type	W Weed	W Weed	W Weed			
Pest Code	CHEAL	SETFA	AMBTR			
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>			
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed			
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Rating Date	Jun-3-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014
Rating Type	CONTRO	CONTRO	CONTRO	STAND	PHYLMA	PHYCHL
Rating Unit	%	%	%	%	%	%
Sample Size, Unit	1 PLOT					
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority		V2	V2	V2	V2	V2
Pest Stage Majority	1-2"	4"	6"			
Pest Density, Unit	2 FT2	15 FT2	5 YD2			
Assessed By						
Days After First/Last Applic.	26 26	32 32	32 32	32 32	32 32	32 32
Trt-Eval Interval						
Plant-Eval Interval	27 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1
Days After Emergence	21 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	7	8	9	10
18 AUTHORITY XL	2.8 oz ai/a	A 208	99.0	93.0	95.0	60.0
ANTHEM	1.61 oz ai/a	B 504	99.0	95.0	75.0	70.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 706	99.0	85.0	60.0	70.0
COC	1 % v/v	B 1006	99.0	87.0	75.0	78.0
AMS - Liquid	17 lb ai/100 gal B					
	Mean =		99.0	90.0	76.3	69.5
19 Authority Maxx (66 SG)	2.64 oz ai/a	A 302	99.0	70.0	80.0	40.0
ANTHEM	1.61 oz ai/a	B 508	99.0	92.0	90.0	65.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 802	99.0	80.0	50.0	40.0
COC	1 % v/v	B 1004	99.0	87.0	40.0	57.0
AMS - Liquid	17 lb ai/100 gal B					
	Mean =		99.0	82.3	65.0	50.5
20 AUTHORITY ELITE	21.9 oz ai/a	A 304	99.0	95.0	50.0	57.0
ANTHEM	1.61 oz ai/a	B 502	99.0	97.0	85.0	60.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 606	99.0	97.0	65.0	70.0
COC	1 % v/v	B 1008	99.0	95.0	50.0	76.0
AMS - Liquid	17 lb ai/100 gal B					
	Mean =		99.0	96.0	62.5	65.8

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Pest Type	W Weed	W Weed	W Weed					
Pest Code	SETFA	AMBTR	CHEAL					
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium ai>					
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>					
Crop Code				GLXMA	GLXMA	GLXMA		
B BCH Scale				BSOY	BSOY	BSOY		
Crop Scientific Name				Glycine max	Glycine max	Glycine max		
Crop Name				Soybean	Soybean	Soybean		
Rating Date	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014		
Rating Type	CONTRO	CONTRO	CONTRO	STAND	PHYSTU	PHYLMA		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit								
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	V2	V2	V2	V2	V2	V2		
Pest Stage Majority	8"	14"	4"					
Pest Density, Unit	20 FT2	5 YD2	3 YD2					
Assessed By								
Days After First/Last Applic.	39 7	39 7	39 7	39 7	39 7	39 7		
Trt-Eval Interval								
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1		
Days After Emergence	34 DE-1	34 DE-1	34 DE-1	34 DE-1	34 DE-1	34 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	13	14	15	16	17	18
1 Untreated Check		101	0.0	0.0	0.0	95.0	0.0	0.0
		405	0.0	0.0	0.0	86.0	0.0	0.0
		703	0.0	0.0	0.0	93.0	0.0	0.0
		907	0.0	0.0	0.0	95.0	0.0	0.0
		Mean =	0.0	0.0	0.0	92.3	0.0	0.0
2 AUTHORITY FIRST DF	4.5 oz ai/a	A 103	99.0	95.0	99.0	50.0	0.0	5.0
CADET	0.068 oz ai/a	B 307	99.0	90.0	99.0	40.0	7.0	3.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 603	99.0	93.0	99.0	55.0	5.0	7.0
COC	1 % v/v	B 905	99.0	93.0	99.0	85.0	5.0	7.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	92.8	99.0	57.5	4.3	5.5
3 AUTHORITY FIRST DF	4.5 oz ai/a	A 105	99.0	97.0	99.0	45.0	15.0	7.0
MARVEL	2.72 oz ai/a	B 501	95.0	98.0	99.0	45.0	7.0	10.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 701	99.0	98.0	99.0	55.0	20.0	15.0
COC	1 % v/v	B 1007	99.0	95.0	99.0	65.0	10.0	10.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	98.0	97.0	99.0	52.5	13.0	10.5
4 AUTHORITY FIRST DF	2.8 oz ai/a	A 107	99.0	97.0	99.0	70.0	15.0	10.0
MARVEL	2.72 oz ai/a	B 403	99.0	97.0	99.0	40.0	15.0	15.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 605	99.0	99.0	99.0	70.0	10.0	15.0
COC	1 % v/v	B 1001	99.0	99.0	99.0	65.0	10.0	10.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	98.0	99.0	61.3	12.5	12.5
5 AUTHORITY MTZ	5.4 oz ai/a	A 201	99.0	83.0	99.0	80.0	0.0	7.0
CADET	0.068 oz ai/a	B 507	99.0	82.0	99.0	77.0	0.0	9.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 803	99.0	80.0	99.0	80.0	0.0	5.0
COC	1 % v/v	B 1003	99.0	80.0	99.0	80.0	0.0	7.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	81.3	99.0	79.3	0.0	7.0

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Pest Type	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	CHEAL			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>			
Pest Name	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-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014
Rating Type	CONTRO	CONTRO	CONTRO	STAND	PHYSTU	PHYLMA
Rating Unit	%	%	%	%	%	%
Sample Size, Unit						
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V2	V2	V2	V2	V2	V2
Pest Stage Majority	8"	14"	4"			
Pest Density, Unit	20 FT2	5 YD2	3 YD2			
Assessed By						
Days After First/Last Applic.	39 7	39 7	39 7	39 7	39 7	39 7
Trt-Eval Interval						
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1
Days After Emergence	34 DE-1	34 DE-1	34 DE-1	34 DE-1	34 DE-1	34 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	13	14	15	16
6 AUTHORITY MTZ	5.4 oz ai/a	A 203	93.0	94.0	99.0	65.0
MARVEL	2.72 oz ai/a	B 407	99.0	90.0	99.0	55.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 601	97.0	92.0	99.0	80.0
COC	1 % v/v	B 903	99.0	86.0	99.0	77.0
AMS - Liquid	17 lb ai/100 gal B					10.0
		Mean =	97.0	90.5	99.0	69.3
7 AUTHORITY XL	2.8 oz ai/a	A 205	99.0	94.0	99.0	67.0
CADET	0.068 oz ai/a	B 305	99.0	85.0	99.0	75.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 707	99.0	85.0	99.0	80.0
COC	1 % v/v	B 805	99.0	85.0	99.0	60.0
AMS - Liquid	17 lb ai/100 gal B					5.0
		Mean =	99.0	87.3	99.0	70.5
8 AUTHORITY XL	2.8 oz ai/a	A 207	99.0	97.0	99.0	55.0
MARVEL	2.72 oz ai/a	B 505	99.0	92.0	99.0	50.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 607	99.0	99.0	99.0	70.0
COC	1 % v/v	B 901	95.0	99.0	99.0	70.0
AMS - Liquid	17 lb ai/100 gal B					0.0
		Mean =	98.0	96.8	99.0	61.3
9 Authority Maxx (66 SG)	3.96 oz ai/a	A 301	99.0	90.0	99.0	70.0
CADET	0.068 oz ai/a	B 401	99.0	84.0	99.0	60.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 705	99.0	87.0	99.0	70.0
COC	1 % v/v	B 807	99.0	80.0	99.0	80.0
AMS - Liquid	17 lb ai/100 gal B					0.0
		Mean =	99.0	85.3	99.0	70.0
10 Authority Maxx (66 SG)	3.96 oz ai/a	A 303	99.0	93.0	99.0	60.0
MARVEL	2.72 oz ai/a	B 503	95.0	95.0	99.0	55.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 801	99.0	85.0	99.0	85.0
COC	1 % v/v	B 1005	99.0	90.0	99.0	60.0
AMS - Liquid	17 lb ai/100 gal B					7.0
		Mean =	98.0	90.8	99.0	65.0
11 AUTHORITY ASSIST	2.5 oz ai/a	A 102	99.0	85.0	99.0	80.0
CADET	0.068 oz ai/a	B 308	99.0	85.0	99.0	93.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 708	99.0	90.0	99.0	78.0
COC	1 % v/v	B 1002	99.0	85.0	99.0	75.0
AMS - Liquid	17 lb ai/100 gal B					0.0
		Mean =	99.0	86.3	99.0	81.5

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Pest Type	W Weed	W Weed	W Weed					
Pest Code	SETFA	AMBTR	CHEAL					
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>					
Pest Name	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-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014		
Rating Type	CONTRO	CONTRO	CONTRO	STAND	PHYSTU	PHYLMA		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit								
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	V2	V2	V2	V2	V2	V2		
Pest Stage Majority	8"	14"	4"					
Pest Density, Unit	20 FT2	5 YD2	3 YD2					
Assessed By								
Days After First/Last Applic.	39 7	39 7	39 7	39 7	39 7	39 7		
Trt-Eval Interval								
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1		
Days After Emergence	34 DE-1	34 DE-1	34 DE-1	34 DE-1	34 DE-1	34 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	13	14	15	16	17	18
12 AUTHORITY ASSIST	2.5 oz ai/a	A 104	95.0	94.0	99.0	80.0	15.0	10.0
MARVEL	2.72 oz ai/a	B 408	99.0	93.0	99.0	65.0	5.0	10.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 702	99.0	89.0	99.0	65.0	0.0	15.0
COC	1 % v/v	B 904	95.0	94.0	99.0	85.0	10.0	15.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	97.0	92.5	99.0	73.8	7.5	12.5
13 AUTHORITY ELITE	21.9 oz ai/a	A 106	99.0	85.0	99.0	80.0	0.0	5.0
CADET	0.068 oz ai/a	B 406	99.0	84.0	99.0	73.0	0.0	10.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 602	99.0	84.0	99.0	70.0	0.0	8.0
COC	1 % v/v	B 902	94.0	83.0	99.0	83.0	0.0	12.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	97.8	84.0	99.0	76.5	0.0	8.8
14 AUTHORITY ELITE	21.9 oz ai/a	A 108	99.0	92.0	99.0	85.0	10.0	15.0
MARVEL	2.72 oz ai/a	B 306	99.0	80.0	99.0	60.0	0.0	5.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 604	99.0	94.0	99.0	65.0	12.0	12.0
COC	1 % v/v	B 908	99.0	85.0	99.0	87.0	10.0	15.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	87.8	99.0	74.3	8.0	11.8
15 AUTHORITY FIRST DF	2.8 oz ai/a	A 202	99.0	95.0	99.0	60.0	0.0	10.0
ANTHEM	1.61 oz ai/a	B 506	99.0	85.0	99.0	70.0	0.0	12.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 608	99.0	94.0	99.0	80.0	0.0	8.0
COC	1 % v/v	B 808	99.0	93.0	99.0	45.0	15.0	10.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	91.8	99.0	63.8	3.8	10.0
16 AUTHORITY FIRST DF	4.5 oz ai/a	A 204	97.0	95.0	99.0	55.0	0.0	8.0
ANTHEM	1.61 oz ai/a	B 404	99.0	86.0	99.0	50.0	0.0	5.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 704	99.0	90.0	99.0	55.0	10.0	7.0
COC	1 % v/v	B 806	99.0	90.0	99.0	60.0	0.0	5.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	98.5	90.3	99.0	55.0	2.5	6.3
17 AUTHORITY MTZ	5.4 oz ai/a	A 206	99.0	94.0	99.0	70.0	3.0	7.0
ANTHEM	1.61 oz ai/a	B 402	99.0	80.0	99.0	55.0	0.0	5.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 804	95.0	80.0	99.0	75.0	5.0	5.0
COC	1 % v/v	B 906	99.0	87.0	99.0	75.0	5.0	7.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	98.0	85.3	99.0	68.8	3.3	6.0

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Pest Type	W Weed	W Weed	W Weed					
Pest Code	SETFA	AMBTR	CHEAL					
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>					
Pest Name	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-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014		
Rating Type	CONTRO	CONTRO	CONTRO	STAND	PHYSTU	PHYLMA		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit								
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	V2	V2	V2	V2	V2	V2		
Pest Stage Majority	8"	14"	4"					
Pest Density, Unit	20 FT2	5 YD2	3 YD2					
Assessed By								
Days After First/Last Applic.	39 7	39 7	39 7	39 7	39 7	39 7		
Trt-Eval Interval								
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1		
Days After Emergence	34 DE-1	34 DE-1	34 DE-1	34 DE-1	34 DE-1	34 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	13	14	15	16	17	18
18 AUTHORITY XL	2.8 oz ai/a	A 208	97.0	95.0	99.0	65.0	0.0	7.0
ANTHEM	1.61 oz ai/a	B 504	99.0	90.0	99.0	65.0	0.0	12.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 706	99.0	85.0	99.0	75.0	3.0	7.0
COC	1 % v/v	B 1006	99.0	90.0	99.0	80.0	0.0	10.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	98.5	90.0	99.0	71.3	0.8	9.0
19 Authority Maxx (66 SG)	2.64 oz ai/a	A 302	99.0	90.0	99.0	50.0	0.0	7.0
ANTHEM	1.61 oz ai/a	B 508	95.0	90.0	99.0	80.0	0.0	9.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 802	90.0	83.0	99.0	77.0	0.0	5.0
COC	1 % v/v	B 1004	99.0	83.0	99.0	60.0	5.0	7.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	95.8	86.5	99.0	66.8	1.3	7.0
20 AUTHORITY ELITE	21.9 oz ai/a	A 304	99.0	83.0	99.0	75.0	0.0	10.0
ANTHEM	1.61 oz ai/a	B 502	99.0	90.0	99.0	65.0	0.0	15.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 606	99.0	87.0	99.0	83.0	0.0	7.0
COC	1 % v/v	B 1008	99.0	87.0	99.0	83.0	0.0	7.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	99.0	86.8	99.0	76.5	0.0	9.8

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Pest Type			W Weed	W Weed	W Weed		
Pest Code			SETFA	AMBTR	CHEAL		
Pest Scientific Name			Setaria faberi	Ambrosia trifi>	Chenopodium al>		
Pest Name			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-16-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU	PHYLMA
Rating Unit	%	%	%	%	%	%	%
Sample Size, Unit							
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority	V2	V5	V5	V5	V5	V5	V5
Pest Stage Majority		20"	30"	10"			
Pest Density, Unit		15 FT2	4 YD2	3 YD2			
Assessed By							
Days After First/Last Applic.	39 7	48 16	48 16	48 16	48 16	48 16	48 16
Trt-Eval Interval							
Plant-Eval Interval	40 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1
Days After Emergence	34 DE-1	43 DE-1	43 DE-1	43 DE-1	43 DE-1	43 DE-1	43 DE-1
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	19	20	21	22	23
1 Untreated Check		101	0.0	0.0	0.0	0.0	0.0
		405	0.0	0.0	0.0	0.0	0.0
		703	0.0	0.0	0.0	0.0	0.0
		907	0.0	0.0	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0	0.0	0.0
2 AUTHORITY FIRST DF	4.5 oz ai/a	A 103	5.0	90.0	93.0	99.0	4.0
CADET	0.068 oz ai/a	B 307	7.0	97.0	87.0	99.0	7.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 603	5.0	93.0	92.0	99.0	5.0
COC	1 % v/v	B 905	8.0	99.0	89.0	99.0	0.0
AMS - Liquid	17 lb ai/100 gal B						5.0
		Mean =	6.3	94.8	90.3	99.0	4.0
3 AUTHORITY FIRST DF	4.5 oz ai/a	A 105	5.0	99.0	94.0	99.0	15.0
MARVEL	2.72 oz ai/a	B 501	10.0	95.0	90.0	99.0	5.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 701	17.0	99.0	92.0	99.0	10.0
COC	1 % v/v	B 1007	15.0	95.0	94.0	99.0	10.0
AMS - Liquid	17 lb ai/100 gal B						3.0
		Mean =	11.8	97.0	92.5	99.0	10.0
4 AUTHORITY FIRST DF	2.8 oz ai/a	A 107	10.0	98.0	96.0	99.0	10.0
MARVEL	2.72 oz ai/a	B 403	15.0	97.0	99.0	99.0	6.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 605	15.0	95.0	94.0	99.0	10.0
COC	1 % v/v	B 1001	10.0	98.0	99.0	99.0	7.0
AMS - Liquid	17 lb ai/100 gal B						3.0
		Mean =	12.5	97.0	97.0	99.0	8.3
5 AUTHORITY MTZ	5.4 oz ai/a	A 201	5.0	97.0	82.0	99.0	5.0
CADET	0.068 oz ai/a	B 507	7.0	93.0	83.0	99.0	0.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 803	10.0	90.0	70.0	99.0	0.0
COC	1 % v/v	B 1003	7.0	90.0	70.0	99.0	0.0
AMS - Liquid	17 lb ai/100 gal B						5.0
		Mean =	7.3	92.5	76.3	99.0	1.3

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Pest Type		W Weed	W Weed	W Weed				
Pest Code		SETFA	AMBTR	CHEAL				
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>				
Pest Name		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-16-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014		
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO	PHYSTU	PHYLMA		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit								
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	V2	V5	V5	V5	V5	V5		
Pest Stage Majority		20"	30"	10"				
Pest Density, Unit		15 FT2	4 YD2	3 YD2				
Assessed By								
Days After First/Last Applic.	39 7	48 16	48 16	48 16	48 16	48 16		
Trt-Eval Interval								
Plant-Eval Interval	40 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1		
Days After Emergence	34 DE-1	43 DE-1	43 DE-1	43 DE-1	43 DE-1	43 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	19	20	21	22	23	24
6 AUTHORITY MTZ	5.4 oz ai/a	A 203	7.0	95.0	90.0	99.0	3.0	2.0
MARVEL	2.72 oz ai/a	B 407	17.0	99.0	85.0	99.0	6.0	2.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 601	10.0	99.0	89.0	99.0	3.0	3.0
COC	1 % v/v	B 903	10.0	94.0	85.0	99.0	3.0	6.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	11.0	96.8	87.3	99.0	3.8	3.3
7 AUTHORITY XL	2.8 oz ai/a	A 205	5.0	97.0	85.0	99.0	0.0	0.0
CADET	0.068 oz ai/a	B 305	5.0	99.0	84.0	99.0	3.0	2.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 707	5.0	97.0	85.0	99.0	0.0	0.0
COC	1 % v/v	B 805	7.0	95.0	82.0	99.0	7.0	12.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	5.5	97.0	84.0	99.0	2.5	3.5
8 AUTHORITY XL	2.8 oz ai/a	A 207	10.0	97.0	97.0	99.0	7.0	3.0
MARVEL	2.72 oz ai/a	B 505	10.0	95.0	93.0	99.0	5.0	4.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 607	10.0	95.0	94.0	99.0	5.0	4.0
COC	1 % v/v	B 901	7.0	95.0	95.0	99.0	10.0	3.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	9.3	95.5	94.8	99.0	6.8	3.5
9 Authority Maxx (66 SG)	3.96 oz ai/a	A 301	5.0	95.0	90.0	99.0	2.0	5.0
CADET	0.068 oz ai/a	B 401	5.0	99.0	72.0	99.0	0.0	5.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 705	7.0	99.0	83.0	99.0	3.0	4.0
COC	1 % v/v	B 807	10.0	99.0	70.0	99.0	3.0	5.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	6.8	98.0	78.8	99.0	2.0	4.8
10 Authority Maxx (66 SG)	3.96 oz ai/a	A 303	10.0	92.0	87.0	99.0	5.0	3.0
MARVEL	2.72 oz ai/a	B 503	10.0	99.0	87.0	99.0	3.0	5.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 801	5.0	95.0	86.0	99.0	15.0	3.0
COC	1 % v/v	B 1005	10.0	99.0	90.0	99.0	5.0	3.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	8.8	96.3	87.5	99.0	7.0	3.5
11 AUTHORITY ASSIST	2.5 oz ai/a	A 102	5.0	95.0	75.0	99.0	5.0	3.0
CADET	0.068 oz ai/a	B 308	7.0	99.0	85.0	99.0	0.0	2.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 708	5.0	90.0	92.0	99.0	0.0	4.0
COC	1 % v/v	B 1002	10.0	95.0	84.0	99.0	0.0	6.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	6.8	94.8	84.0	99.0	1.3	3.8

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Pest Type		W Weed	W Weed	W Weed				
Pest Code		SETFA	AMBTR	CHEAL				
Pest Scientific Name		Setaria faberi	Ambrosia trif>	Chenopodium al>				
Pest Name		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-16-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014		
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO	PHYSTU	PHYLMA		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit								
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	V2	V5	V5	V5	V5	V5		
Pest Stage Majority		20"	30"	10"				
Pest Density, Unit		15 FT2	4 YD2	3 YD2				
Assessed By								
Days After First/Last Applic.	39 7	48 16	48 16	48 16	48 16	48 16		
Trt-Eval Interval								
Plant-Eval Interval	40 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1		
Days After Emergence	34 DE-1	43 DE-1	43 DE-1	43 DE-1	43 DE-1	43 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	19	20	21	22	23	24
12 AUTHORITY ASSIST	2.5 oz ai/a	A 104	15.0	97.0	87.0	99.0	5.0	3.0
MARVEL	2.72 oz ai/a	B 408	10.0	99.0	90.0	99.0	3.0	6.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 702	15.0	95.0	87.0	99.0	0.0	6.0
COC	1 % v/v	B 904	15.0	95.0	87.0	99.0	0.0	7.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	13.8	96.5	87.8	99.0	2.0	5.5
13 AUTHORITY ELITE	21.9 oz ai/a	A 106	5.0	99.0	86.0	99.0	3.0	2.0
CADET	0.068 oz ai/a	B 406	10.0	99.0	77.0	99.0	0.0	5.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 602	10.0	95.0	84.0	99.0	0.0	3.0
COC	1 % v/v	B 902	10.0	95.0	87.0	99.0	0.0	5.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	8.8	97.0	83.5	99.0	0.8	3.8
14 AUTHORITY ELITE	21.9 oz ai/a	A 108	10.0	99.0	88.0	99.0	5.0	3.0
MARVEL	2.72 oz ai/a	B 306	7.0	99.0	80.0	99.0	5.0	2.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 604	18.0	97.0	90.0	99.0	7.0	0.0
COC	1 % v/v	B 908	10.0	99.0	87.0	99.0	5.0	5.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	11.3	98.5	86.3	99.0	5.5	2.5
15 AUTHORITY FIRST DF	2.8 oz ai/a	A 202	10.0	97.0	96.0	99.0	5.0	5.0
ANTHEM	1.61 oz ai/a	B 506	10.0	99.0	84.0	99.0	0.0	7.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 608	9.0	95.0	92.0	99.0	3.0	6.0
COC	1 % v/v	B 808	7.0	99.0	84.0	99.0	3.0	6.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	9.0	97.5	89.0	99.0	2.8	6.0
16 AUTHORITY FIRST DF	4.5 oz ai/a	A 204	10.0	99.0	93.0	99.0	5.0	7.0
ANTHEM	1.61 oz ai/a	B 404	7.0	99.0	85.0	99.0	5.0	3.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 704	5.0	99.0	84.0	99.0	5.0	5.0
COC	1 % v/v	B 806	7.0	99.0	85.0	99.0	5.0	5.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	7.3	99.0	86.8	99.0	5.0	5.0
17 AUTHORITY MTZ	5.4 oz ai/a	A 206	10.0	99.0	92.0	99.0	3.0	6.0
ANTHEM	1.61 oz ai/a	B 402	5.0	99.0	65.0	99.0	0.0	3.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 804	7.0	90.0	65.0	99.0	0.0	5.0
COC	1 % v/v	B 906	15.0	95.0	80.0	99.0	3.0	5.0
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	9.3	95.8	75.5	99.0	1.5	4.8

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Pest Type		W Weed	W Weed	W Weed			
Pest Code		SETFA	AMBTR	CHEAL			
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>			
Pest Name		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-16-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014	
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO	PHYSTU	PHYLMA	
Rating Unit	%	%	%	%	%	%	
Sample Size, Unit							
Number of Subsamples	1	1	1	1	1	1	
Crop Stage Majority	V2	V5	V5	V5	V5	V5	
Pest Stage Majority		20"	30"	10"			
Pest Density, Unit		15 FT2	4 YD2	3 YD2			
Assessed By							
Days After First/Last Applic.	39 7	48 16	48 16	48 16	48 16	48 16	
Trt-Eval Interval							
Plant-Eval Interval	40 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1	
Days After Emergence	34 DE-1	43 DE-1	43 DE-1	43 DE-1	43 DE-1	43 DE-1	
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	19	20	21	22	23
18 AUTHORITY XL	2.8 oz ai/a	A 208	5.0	99.0	96.0	99.0	5.0
ANTHEM	1.61 oz ai/a	B 504	10.0	99.0	89.0	99.0	3.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 706	7.0	99.0	79.0	99.0	3.0
COC	1 % v/v	B 1006	7.0	99.0	88.0	99.0	0.0
AMS - Liquid	17 lb ai/100 gal B						7.0
		Mean =	7.3	99.0	88.0	99.0	2.8
19 Authority Maxx (66 SG)	2.64 oz ai/a	A 302	5.0	97.0	86.0	99.0	3.0
ANTHEM	1.61 oz ai/a	B 508	5.0	99.0	86.0	99.0	5.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 802	7.0	95.0	72.0	99.0	0.0
COC	1 % v/v	B 1004	12.0	95.0	82.0	99.0	3.0
AMS - Liquid	17 lb ai/100 gal B						5.0
		Mean =	7.3	96.5	81.5	99.0	2.8
20 AUTHORITY ELITE	21.9 oz ai/a	A 304	10.0	99.0	75.0	99.0	0.0
ANTHEM	1.61 oz ai/a	B 502	15.0	99.0	90.0	99.0	0.0
ROUNDUP POWERMAX	1.38 lb ai/a	B 606	7.0	99.0	80.0	99.0	0.0
COC	1 % v/v	B 1008	15.0	99.0	84.0	99.0	5.0
AMS - Liquid	17 lb ai/100 gal B						5.0
		Mean =	11.8	99.0	82.3	99.0	1.3

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Pest Type		W Weed AMBTR	W Weed SETFA	W Weed CHEAL				
Pest Code		Ambrosia trifi>	Setaria faberi	Chenopodium al>				
Pest Scientific Name		Giant ragweed	Giant foxtail	Common lambsqu>				
Pest Name								
Crop Code	GLXMA				GLXMA	GLXMA		
BBCH Scale	BSOY				BSOY	BSOY		
Crop Scientific Name	Glycine max				Glycine max	Glycine max		
Crop Name	Soybean				Soybean	Soybean		
Rating Date	Jun-25-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Oct-22-2014		
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO	PHYSTU	YIELD		
Rating Unit	%	%	%	%	%	bu/ac		
Sample Size, Unit								
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	V5	V8	V8	V8	V8			
Pest Stage Majority		12-60"	6-36"	6-18"				
Pest Density, Unit		2 FT2	8 FT2	2 YD2				
Assessed By								
Days After First/Last Applic.	48 16	63 31	63 31	63 31	63 31	167 135		
Trt-Eval Interval								
Plant-Eval Interval	49 DP-1	64 DP-1	64 DP-1	64 DP-1	64 DP-1	168 DP-1		
Days After Emergence	43 DE-1	58 DE-1	58 DE-1	58 DE-1	58 DE-1	162 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	25	26	27	28	29	30
6 AUTHORITY MTZ	5.4 oz ai/a	A 203	3.0	96.0	98.0	99.0	0.0	64.20
MARVEL	2.72 oz ai/a	B 407	3.0	50.0	70.0	99.0	6.0	47.00
ROUNDUP POWERMAX	1.38 lb ai/a	B 601	3.0	85.0	98.0	99.0	0.0	63.80
COC	1 % v/v	B 903	3.0	97.0	75.0	99.0	6.0	76.30
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	3.0	82.0	85.3	99.0	3.0	62.83
7 AUTHORITY XL	2.8 oz ai/a	A 205	3.0	98.0	85.0	99.0	0.0	56.80
CADET	0.068 oz ai/a	B 305	2.0	70.0	99.0	99.0	0.0	46.00
ROUNDUP POWERMAX	1.38 lb ai/a	B 707	0.0	70.0	99.0	99.0	0.0	50.30
COC	1 % v/v	B 805	0.0	85.0	95.0	99.0	7.0	69.90
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	1.3	80.8	94.5	99.0	1.8	55.75
8 AUTHORITY XL	2.8 oz ai/a	A 207	5.0	99.0	95.0	99.0	0.0	50.30
MARVEL	2.72 oz ai/a	B 505	3.0	95.0	95.0	99.0	4.0	51.40
ROUNDUP POWERMAX	1.38 lb ai/a	B 607	5.0	98.0	85.0	99.0	0.0	64.30
COC	1 % v/v	B 901	0.0	99.0	90.0	99.0	5.0	58.90
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	3.3	97.8	91.3	99.0	2.3	56.23
9 Authority Maxx (66 SG)	3.96 oz ai/a	A 301	3.0	98.0	80.0	99.0	0.0	56.30
CADET	0.068 oz ai/a	B 401	3.0	40.0	98.0	99.0	0.0	46.90
ROUNDUP POWERMAX	1.38 lb ai/a	B 705	5.0	75.0	80.0	99.0	0.0	51.20
COC	1 % v/v	B 807	3.0	40.0	99.0	99.0	0.0	57.80
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	3.5	63.3	89.3	99.0	0.0	53.05
10 Authority Maxx (66 SG)	3.96 oz ai/a	A 303	3.0	75.0	80.0	99.0	0.0	55.90
MARVEL	2.72 oz ai/a	B 503	5.0	50.0	65.0	99.0	0.0	46.50
ROUNDUP POWERMAX	1.38 lb ai/a	B 801	5.0	30.0	95.0	99.0	6.0	49.20
COC	1 % v/v	B 1005	5.0	85.0	98.0	99.0	4.0	58.10
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	4.5	60.0	84.5	99.0	2.5	52.43
11 AUTHORITY ASSIST	2.5 oz ai/a	A 102	4.0	75.0	50.0	99.0	0.0	69.70
CADET	0.068 oz ai/a	B 308	5.0	85.0	99.0	99.0	0.0	75.00
ROUNDUP POWERMAX	1.38 lb ai/a	B 708	5.0	85.0	80.0	99.0	0.0	71.00
COC	1 % v/v	B 1002	3.0	80.0	75.0	99.0	0.0	63.50
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	4.3	81.3	76.0	99.0	0.0	69.80

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Pest Type		W Weed AMBTR	W Weed SETFA	W Weed CHEAL				
Pest Code		Ambrosia trifi>	Setaria faberi	Chenopodium al>				
Pest Scientific Name		Giant ragweed	Giant foxtail	Common lambsqu>				
Pest Name								
Crop Code	GLXMA				GLXMA	GLXMA		
BBCH Scale	BSOY				BSOY	BSOY		
Crop Scientific Name	Glycine max				Glycine max	Glycine max		
Crop Name	Soybean				Soybean	Soybean		
Rating Date	Jun-25-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Oct-22-2014		
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO	PHYSTU	YIELD		
Rating Unit	%	%	%	%	%	bu/ac		
Sample Size, Unit								
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	V5	V8	V8	V8	V8			
Pest Stage Majority		12-60"	6-36"	6-18"				
Pest Density, Unit		2 FT2	8 FT2	2 YD2				
Assessed By								
Days After First/Last Applic.	48 16	63 31	63 31	63 31	63 31	167 135		
Trt-Eval Interval								
Plant-Eval Interval	49 DP-1	64 DP-1	64 DP-1	64 DP-1	64 DP-1	168 DP-1		
Days After Emergence	43 DE-1	58 DE-1	58 DE-1	58 DE-1	58 DE-1	162 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	25	26	27	28	29	30
12 AUTHORITY ASSIST	2.5 oz ai/a	A 104	5.0	70.0	90.0	99.0	5.0	67.40
MARVEL	2.72 oz ai/a	B 408	5.0	90.0	85.0	99.0	0.0	72.50
ROUNDUP POWERMAX	1.38 lb ai/a	B 702	5.0	90.0	95.0	99.0	0.0	70.10
COC	1 % v/v	B 904	5.0	98.0	99.0	99.0	6.0	79.80
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	5.0	87.0	92.3	99.0	2.8	72.45
13 AUTHORITY ELITE	21.9 oz ai/a	A 106	6.0	70.0	99.0	99.0	0.0	73.00
CADET	0.068 oz ai/a	B 406	3.0	60.0	99.0	99.0	0.0	57.90
ROUNDUP POWERMAX	1.38 lb ai/a	B 602	5.0	65.0	85.0	99.0	5.0	58.50
COC	1 % v/v	B 902	5.0	99.0	95.0	99.0	0.0	74.30
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	4.8	73.5	94.5	99.0	1.3	65.93
14 AUTHORITY ELITE	21.9 oz ai/a	A 108	5.0	90.0	95.0	99.0	0.0	87.80
MARVEL	2.72 oz ai/a	B 306	5.0	60.0	95.0	99.0	0.0	50.10
ROUNDUP POWERMAX	1.38 lb ai/a	B 604	5.0	80.0	99.0	99.0	5.0	55.10
COC	1 % v/v	B 908	3.0	90.0	99.0	99.0	0.0	79.70
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	4.5	80.0	97.0	99.0	1.3	68.18
15 AUTHORITY FIRST DF	2.8 oz ai/a	A 202	4.0	99.0	98.0	99.0	0.0	60.60
ANTHEM	1.61 oz ai/a	B 506	5.0	90.0	99.0	99.0	0.0	64.40
ROUNDUP POWERMAX	1.38 lb ai/a	B 608	4.0	85.0	98.0	99.0	0.0	65.10
COC	1 % v/v	B 808	3.0	70.0	99.0	99.0	0.0	81.20
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	4.0	86.0	98.5	99.0	0.0	67.83
16 AUTHORITY FIRST DF	4.5 oz ai/a	A 204	5.0	96.0	99.0	99.0	0.0	53.90
ANTHEM	1.61 oz ai/a	B 404	4.0	60.0	90.0	99.0	4.0	55.50
ROUNDUP POWERMAX	1.38 lb ai/a	B 704	5.0	50.0	85.0	99.0	0.0	41.60
COC	1 % v/v	B 806	5.0	80.0	99.0	99.0	0.0	52.00
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	4.8	71.5	93.3	99.0	1.0	50.75
17 AUTHORITY MTZ	5.4 oz ai/a	A 206	3.0	99.0	90.0	99.0	0.0	64.60
ANTHEM	1.61 oz ai/a	B 402	3.0	40.0	90.0	99.0	0.0	39.50
ROUNDUP POWERMAX	1.38 lb ai/a	B 804	5.0	65.0	99.0	99.0	0.0	64.10
COC	1 % v/v	B 906	5.0	70.0	95.0	99.0	0.0	67.20
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	4.0	68.5	93.5	99.0	0.0	58.85

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Pest Type		W Weed	W Weed	W Weed				
Pest Code		AMBTR	SETFA	CHEAL				
Pest Scientific Name		Ambrosia trifi>	Setaria faberi	Chenopodium al>				
Pest Name		Giant ragweed	Giant foxtail	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-25-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Oct-22-2014		
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO	PHYSTU	YIELD		
Rating Unit	%	%	%	%	%	bu/ac		
Sample Size, Unit								
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	V5	V8	V8	V8	V8			
Pest Stage Majority		12-60"	6-36"	6-18"				
Pest Density, Unit		2 FT2	8 FT2	2 YD2				
Assessed By								
Days After First/Last Applic.	48 16	63 31	63 31	63 31	63 31	167 135		
Trt-Eval Interval								
Plant-Eval Interval	49 DP-1	64 DP-1	64 DP-1	64 DP-1	64 DP-1	168 DP-1		
Days After Emergence	43 DE-1	58 DE-1	58 DE-1	58 DE-1	58 DE-1	162 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	25	26	27	28	29	30
18 AUTHORITY XL	2.8 oz ai/a	A 208	5.0	99.0	99.0	99.0	0.0	56.50
ANTHEM	1.61 oz ai/a	B 504	4.0	80.0	95.0	99.0	0.0	64.20
ROUNDUP POWERMAX	1.38 lb ai/a	B 706	6.0	65.0	99.0	99.0	0.0	60.40
COC	1 % v/v	B 1006	5.0	90.0	99.0	99.0	0.0	73.80
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	5.0	83.5	98.0	99.0	0.0	63.73
19 Authority Maxx (66 SG)	2.64 oz ai/a	A 302	5.0	90.0	99.0	99.0	0.0	48.80
ANTHEM	1.61 oz ai/a	B 508	5.0	90.0	85.0	99.0	0.0	69.50
ROUNDUP POWERMAX	1.38 lb ai/a	B 802	5.0	60.0	60.0	99.0	0.0	59.10
COC	1 % v/v	B 1004	3.0	40.0	99.0	99.0	3.0	58.60
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	4.5	70.0	85.8	99.0	0.8	59.00
20 AUTHORITY ELITE	21.9 oz ai/a	A 304	5.0	60.0	99.0	99.0	0.0	56.40
ANTHEM	1.61 oz ai/a	B 502	5.0	90.0	99.0	99.0	0.0	67.30
ROUNDUP POWERMAX	1.38 lb ai/a	B 606	5.0	70.0	99.0	99.0	0.0	57.00
COC	1 % v/v	B 1008	3.0	70.0	99.0	99.0	0.0	79.10
AMS - Liquid	17 lb ai/100 gal B							
		Mean =	4.5	72.5	99.0	99.0	0.0	64.95

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2014/SOYBEAN/AUTHORITY/ANTHEM/CADET/MARVEL/PRE/POST/RR PROGRAMS/

Trial ID: 14S-THP-CTS-50-2 Protocol ID: 14S-THP-CTS-50-2
 Location: Throckmorton Study Director:
 Project ID: SULF.SOY.14.JPR.01(a) 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
 ABUTH, Abutilon theophrasti, = US
 CHEAL, Chenopodium album, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

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

Rating Unit

% = percent
 bu/ac = bushels per acre

PLOT = total plot

FT2 = per square foot
 YD2 = per square yard

Plant-Eval Interval

15 DP-1 = 1 GLXMA May-7-2014
 21 DP-1 = 1 GLXMA May-7-2014
 27 DP-1 = 1 GLXMA May-7-2014
 33 DP-1 = 1 GLXMA May-7-2014
 40 DP-1 = 1 GLXMA May-7-2014
 49 DP-1 = 1 GLXMA May-7-2014
 64 DP-1 = 1 GLXMA May-7-2014
 168 DP-1 = 1 GLXMA May-7-2014

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2014/SOYBEAN/AUTHORITY/ANTHEM/CADET/MARVEL/PRE/POST/RR PROGRAMS/

Trial ID: 14S-THP-CTS-50-2 Protocol ID: 14S-THP-CTS-50-2
 Location: Throckmorton Study Director:
 Project ID: SULF.SOY.14.JPR.01(a) 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	ABUTH		SETFA	AMBTR	CHEAL		
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Abutilon theop>		Setaria faberi	Ambrosia trifi>	Chenopodium aI>		
Pest Name	Giant foxtail	Giant ragweed	Velvetleaf		Giant foxtail	Giant ragweed	Common lambsqu>		
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max		
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean		
Rating Date	May-22-2014	May-22-2014	May-22-2014	May-28-2014	Jun-3-2014	Jun-3-2014	Jun-3-2014		
Rating Type				STAND	CONTRO	CONTRO	CONTRO		
Rating Unit				%	%	%	%		
Sample Size, Unit				1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1	1	1		
Crop Stage Majority					1-4"	1-3"	1-2"		
Pest Stage Majority					10 FT2	3 YD2	2 FT2		
Pest Density, Unit	20 FT2	6 YD2	2 YD2						
Assessed By	GT and KA	GT and KA	GT and KA						
Days After First/Last Applic.	14 14	14 14	14 14	20 20	26 26	26 26	26 26		
Trt-Eval Interval	14 DA-A								
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	21 DP-1	27 DP-1	27 DP-1	27 DP-1		
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	15 DE-1	21 DE-1	21 DE-1	21 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	1	2	3	4	5	6	7
1 Untreated Check			0.0 c	0.0 d	0.0 b	88.0 a	0.0 d	0.0 c	0.0 b
2 AUTHORITY FIRST DF	4.5 oz ai/a	A	98.0 a	92.3 ab	99.0 a	47.5 b	84.5 ab	83.8 a	99.0 a
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
3 AUTHORITY FIRST DF	4.5 oz ai/a	A	99.0 a	89.8 ab	99.0 a	50.0 b	48.8 a-d	92.5 a	99.0 a
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
4 AUTHORITY FIRST DF	2.8 oz ai/a	A	98.0 a	93.3 ab	99.0 a	65.0 ab	60.0 a-d	86.3 a	99.0 a
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
5 AUTHORITY MTZ	5.4 oz ai/a	A	98.0 a	78.5 abc	99.0 a	66.8 ab	5.0 d	51.3 ab	99.0 a
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
6 AUTHORITY MTZ	5.4 oz ai/a	A	98.0 a	71.3 bc	99.0 a	61.8 ab	46.3 a-d	52.5 ab	99.0 a
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							

Means followed by same letter do not significantly differ (P=0.05, 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	ABUTH	SETFA	AMBTR	CHEAL			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Abutilon theop>	Setaria faberi	Ambrosia trifi>	Chenopodium al>			
Pest Name	Giant foxtail	Giant ragweed	Velvetleaf	Giant foxtail	Giant ragweed	Common lambsqu>			
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA			
BBCB Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY			
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max			
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean			
Rating Date	May-22-2014	May-22-2014	May-22-2014	May-28-2014	Jun-3-2014	Jun-3-2014			
Rating Type				STAND	CONTRO	CONTRO			
Rating Unit				%	%	%			
Sample Size, Unit				1 PLOT	1 PLOT	1 PLOT			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority					1-4"	1-3"			
Pest Stage Majority						1-2"			
Pest Density, Unit	20 FT2	6 YD2	2 YD2	10 FT2	3 YD2	2 FT2			
Assessed By	GT and KA	GT and KA	GT and KA						
Days After First/Last Applic.	14 14	14 14	14 14	20 20	26 26	26 26			
Trt-Eval Interval	14 DA-A								
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	21 DP-1	27 DP-1	27 DP-1			
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	15 DE-1	21 DE-1	21 DE-1			
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	1	2	3	4	5	6	7
7 AUTHORITY XL	2.8 oz ai/a	A	98.0 a	97.5 a	99.0 a	61.3 ab	73.8 abc	80.0 a	99.0 a
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
8 AUTHORITY XL	2.8 oz ai/a	A	96.8 a	93.3 ab	99.0 a	62.5 ab	79.5 abc	91.0 a	99.0 a
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
9 Authority Maxx (66 SG)	3.96 oz ai/a	A	99.0 a	85.0 ab	99.0 a	47.5 b	73.5 abc	42.5 ab	99.0 a
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
10 Authority Maxx (66 SG)	3.96 oz ai/a	A	96.8 a	95.0 ab	99.0 a	57.5 ab	56.3 a-d	70.0 ab	99.0 a
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
11 AUTHORITY ASSIST	2.5 oz ai/a	A	92.3 b	88.8 ab	99.0 a	69.3 ab	20.0 cd	65.0 ab	99.0 a
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
12 AUTHORITY ASSIST	2.5 oz ai/a	A	99.0 a	77.5 abc	99.0 a	70.0 ab	42.4 a-d	40.0 ab	99.0 a
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
13 AUTHORITY ELITE	21.9 oz ai/a	A	99.0 a	90.8 ab	99.0 a	58.8 ab	94.3 a	62.5 ab	99.0 a
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
14 AUTHORITY ELITE	21.9 oz ai/a	A	99.0 a	83.8 ab	99.0 a	68.8 ab	93.3 a	41.3 ab	99.0 a
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 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	SETFA	AMBTR	ABUTH	SETFA	AMBTR	CHEAL			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Abutilon theop>	Setaria faberi	Ambrosia trifi>	Chenopodium al>			
Pest Name	Giant foxtail	Giant ragweed	Velvetleaf	Giant foxtail	Giant ragweed	Common lambsqu>			
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA			
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY			
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max			
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean			
Rating Date	May-22-2014	May-22-2014	May-22-2014	May-28-2014	Jun-3-2014	Jun-3-2014			
Rating Type				STAND	CONTRO	CONTRO			
Rating Unit				%	%	%			
Sample Size, Unit				1 PLOT	1 PLOT	1 PLOT			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority					1-4"	1-3"			
Pest Stage Majority					10 FT2	3 YD2			
Pest Density, Unit	20 FT2	6 YD2	2 YD2			2 FT2			
Assessed By	GT and KA	GT and KA	GT and KA						
Days After First/Last Applic.	14 14	14 14	14 14	20 20	26 26	26 26			
Trt-Eval Interval	14 DA-A								
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	21 DP-1	27 DP-1	27 DP-1			
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	15 DE-1	21 DE-1	21 DE-1			
Trt Treatment	Rate	Appl	1	2	3	4	5	6	7
No. Name	Rate Unit	Code							
15 AUTHORITY FIRST DF	2.8 oz ai/a	A	98.0 a	90.0 ab	99.0 a	67.5 ab	48.5 a-d	81.3 a	99.0 a
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
16 AUTHORITY FIRST DF	4.5 oz ai/a	A	99.0 a	94.5 ab	99.0 a	50.0 b	69.8 abc	80.0 a	99.0 a
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
17 AUTHORITY MTZ	5.4 oz ai/a	A	98.0 a	62.5 c	99.0 a	55.0 b	30.0 bcd	27.5 bc	99.0 a
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
18 AUTHORITY XL	2.8 oz ai/a	A	99.0 a	92.5 ab	99.0 a	66.3 ab	69.8 abc	79.8 a	99.0 a
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
19 Authority Maxx (66 SG)	2.64 oz ai/a	A	99.0 a	88.5 ab	99.0 a	59.5 ab	20.0 cd	70.0 ab	99.0 a
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
20 AUTHORITY ELITE	21.9 oz ai/a	A	99.0 a	88.8 ab	99.0 a	68.8 ab	99.0 a	77.5 a	99.0 a
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
LSD (P=.05)			2.96	14.35	0.00	18.38	35.75	29.21	0.00
Standard Deviation			2.09	10.15	0.00	12.99	25.28	20.65	0.00
CV			2.25	12.28	0.0	20.93	45.37	32.41	0.0
Bartlett's X2			8.826	31.889	0.0	26.323	26.737	30.339	0.0
P(Bartlett's X2)			0.453	0.016*	.	0.121	0.062	0.034*	.
Replicate F			1.258	0.677	0.000	4.371	2.973	0.697	0.000
Replicate Prob(F)			0.2973	0.5695	1.0000	0.0077	0.0393	0.5577	1.0000
Treatment F			440.970	17.622	0.000	2.193	5.426	5.438	0.000
Treatment Prob(F)			0.0001	0.0001	1.0000	0.0118	0.0001	0.0001	1.0000

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Pest Type	W Weed	W Weed				W Weed	W Weed		
Pest Code	SETFA	AMBTR				SETFA	AMBTR		
Pest Scientific Name	Setaria faberi	Ambrosia trifi>				Setaria faberi	Ambrosia trifi>		
Pest Name	Giant foxtail	Giant ragweed				Giant foxtail	Giant ragweed		
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA				
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY				
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max				
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean				
Rating Date	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-16-2014	Jun-16-2014		
Rating Type	CONTRO	CONTRO	STAND	PHYLMA	PHYCHL	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%	%		
Sample Size, Unit									
Number of Subsamples	1	1	1	1	1	1	1		
Crop Stage Majority	V2	V2	V2	V2	V2	V2	V2		
Pest Stage Majority	4"	6"				8"	14"		
Pest Density, Unit	15 FT2	5 YD2				20 FT2	5 YD2		
Assessed By									
Days After First/Last Applic.	32 32	32 32	32 32	32 32	32 32	39 7	39 7		
Trt-Eval Interval									
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1	40 DP-1	40 DP-1		
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	34 DE-1	34 DE-1		
Trt Treatment	Rate	Appl	8	9	10	11	12	13	14
No. Name	Rate Unit	Code							
7 AUTHORITY XL	2.8 oz ai/a	A	80.0 ab	82.0 a	67.5 ab	3.0 a	1.3 a	99.0 a	87.3 cde
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
8 AUTHORITY XL	2.8 oz ai/a	A	85.8 ab	77.5 a	58.8 b	0.8 a	0.8 a	98.0 a	96.8 ab
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
9 Authority Maxx (66 SG)	3.96 oz ai/a	A	82.5 ab	63.8 ab	46.3 b	0.0 a	1.8 a	99.0 a	85.3 cde
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
10 Authority Maxx (66 SG)	3.96 oz ai/a	A	87.5 ab	73.8 a	46.3 b	0.0 a	0.0 a	98.0 a	90.8 bcd
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
11 AUTHORITY ASSIST	2.5 oz ai/a	A	52.5 c	76.8 a	70.0 ab	0.0 a	0.0 a	99.0 a	86.3 cde
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
12 AUTHORITY ASSIST	2.5 oz ai/a	A	82.5 ab	40.0 bc	67.5 ab	1.3 a	0.0 a	97.0 a	92.5 abc
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
13 AUTHORITY ELITE	21.9 oz ai/a	A	92.5 ab	52.5 ab	63.8 ab	0.0 a	0.0 a	97.8 a	84.0 de
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
14 AUTHORITY ELITE	21.9 oz ai/a	A	94.8 ab	55.0 ab	70.0 ab	0.8 a	0.0 a	99.0 a	87.8 cde
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							

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Pest Type	W Weed	W Weed				W Weed	W Weed		
Pest Code	SETFA	AMBTR				SETFA	AMBTR		
Pest Scientific Name	Setaria faberi	Ambrosia trifi>				Setaria faberi	Ambrosia trifi>		
Pest Name	Giant foxtail	Giant ragweed				Giant foxtail	Giant ragweed		
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA				
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY				
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max				
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean				
Rating Date	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-16-2014	Jun-16-2014		
Rating Type	CONTRO	CONTRO	STAND	PHYLMA	PHYCHL	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%	%		
Sample Size, Unit									
Number of Subsamples	1	1	1	1	1	1	1		
Crop Stage Majority	V2	V2	V2	V2	V2	V2	V2		
Pest Stage Majority	4"	6"				8"	14"		
Pest Density, Unit	15 FT2	5 YD2				20 FT2	5 YD2		
Assessed By									
Days After First/Last Applic.	32 32	32 32	32 32	32 32	32 32	39 7	39 7		
Trt-Eval Interval									
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1	40 DP-1	40 DP-1		
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	34 DE-1	34 DE-1		
Trt Treatment	Rate	Appl	8	9	10	11	12	13	14
No. Name	Rate Unit	Code							
15 AUTHORITY FIRST DF	2.8 oz ai/a	A	68.3 bc	78.0 a	67.5 ab	0.8 a	2.0 a	99.0 a	91.8 a-d
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
16 AUTHORITY FIRST DF	4.5 oz ai/a	A	88.3 ab	77.5 a	45.0 b	0.8 a	1.3 a	98.5 a	90.3 bcd
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
17 AUTHORITY MTZ	5.4 oz ai/a	A	72.5 abc	12.5 d	56.3 b	0.0 a	0.0 a	98.0 a	85.3 cde
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
18 AUTHORITY XL	2.8 oz ai/a	A	90.0 ab	76.3 a	69.5 ab	1.3 a	1.3 a	98.5 a	90.0 bcd
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
19 Authority Maxx (66 SG)	2.64 oz ai/a	A	82.3 ab	65.0 ab	50.5 b	0.8 a	0.8 a	95.8 a	86.5 cde
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
20 AUTHORITY ELITE	21.9 oz ai/a	A	96.0 a	62.5 ab	65.8 ab	0.0 a	1.3 a	99.0 a	86.8 cde
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
LSD (P=.05)			15.15	20.96	16.71	2.24	2.27	2.42	4.72
Standard Deviation			10.71	14.82	11.81	1.58	1.61	1.71	3.34
CV			14.38	25.36	19.34	269.14	279.34	1.83	3.93
Bartlett's X2			52.093	32.701	24.872	5.549	2.984	8.993	24.559
P(Bartlett's X2)			0.001*	0.012*	0.165	0.784	0.935	0.438	0.138
Replicate F			3.204	0.666	8.582	0.565	1.932	0.028	4.741
Replicate Prob(F)			0.0299	0.5763	0.0001	0.6404	0.1347	0.9935	0.0051
Treatment F			26.336	14.971	3.545	0.940	0.766	659.574	150.857
Treatment Prob(F)			0.0001	0.0001	0.0001	0.5403	0.7348	0.0001	0.0001

Purdue University

Pest Type						W Weed	W Weed		
Pest Code						CHEAL	SETFA		
Pest Scientific Name						Chenopodium ai>	Setaria faberi		
Pest Name						Common lambsqu>	Giant foxtail		
Crop Code						GLXMA	GLXMA		
BBCB Scale						BSOY	BSOY		
Crop Scientific Name						Glycine max	Glycine max		
Crop Name						Soybean	Soybean		
Rating Date						Jun-16-2014	Jun-16-2014		
Rating Type						CONTRO	CONTRO		
Rating Unit						%	%		
Sample Size, Unit									
Number of Subsamples						1	1		
Crop Stage Majority						V2	V2		
Pest Stage Majority						4"	20"		
Pest Density, Unit						3 YD2	15 FT2		
Assessed By									
Days After First/Last Applic.						39 7	39 7		
Trt-Eval Interval									
Plant-Eval Interval						40 DP-1	40 DP-1		
Days After Emergence						34 DE-1	34 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	15	16	17	18	19	20	21
1 Untreated Check			0.0 b	92.3 a	0.0 b	0.0 c	0.0 c	0.0 c	0.0 e
2 AUTHORITY FIRST DF	4.5 oz ai/a	A	99.0 a	57.5 bcd	4.3 b	5.5 b	6.3 b	94.8 ab	90.3 abc
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
3 AUTHORITY FIRST DF	4.5 oz ai/a	A	99.0 a	52.5 d	13.0 a	10.5 ab	11.8 ab	97.0 ab	92.5 ab
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
4 AUTHORITY FIRST DF	2.8 oz ai/a	A	99.0 a	61.3 bcd	12.5 a	12.5 a	12.5 ab	97.0 ab	97.0 a
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
5 AUTHORITY MTZ	5.4 oz ai/a	A	99.0 a	79.3 abc	0.0 b	7.0 ab	7.3 ab	92.5 b	76.3 d
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
6 AUTHORITY MTZ	5.4 oz ai/a	A	99.0 a	69.3 a-d	7.5 ab	10.5 ab	11.0 ab	96.8 ab	87.3 a-d
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							

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Pest Type	W Weed				W Weed	W Weed			
Pest Code	CHEAL				SETFA	AMBTR			
Pest Scientific Name	Chenopodium al>				Setaria faberi	Ambrosia trifi>			
Pest Name	Common lambsqu>				Giant foxtail	Giant ragweed			
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-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-25-2014			
Rating Type	CONTRO	STAND	PHYSTU	PHYLMA	PHYNEC	CONTRO			
Rating Unit	%	%	%	%	%	%			
Sample Size, Unit									
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority	V2	V2	V2	V2	V2	V5			
Pest Stage Majority	4"					20"			
Pest Density, Unit	3 YD2					15 FT2			
Assessed By									
Days After First/Last Applic.	39 7	39 7	39 7	39 7	39 7	48 16			
Trt-Eval Interval									
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1	49 DP-1			
Days After Emergence	34 DE-1	34 DE-1	34 DE-1	34 DE-1	34 DE-1	43 DE-1			
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	15	16	17	18	19	20	21
7 AUTHORITY XL	2.8 oz ai/a	A	99.0 a	70.5 a-d	1.3 b	6.3 ab	5.5 b	97.0 ab	84.0 a-d
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
8 AUTHORITY XL	2.8 oz ai/a	A	99.0 a	61.3 bcd	5.0 ab	9.3 ab	9.3 ab	95.5 ab	94.8 ab
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
9 Authority Maxx (66 SG)	3.96 oz ai/a	A	99.0 a	70.0 a-d	1.8 b	7.0 ab	6.8 ab	98.0 a	78.8 cd
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
10 Authority Maxx (66 SG)	3.96 oz ai/a	A	99.0 a	65.0 bcd	3.5 b	10.0 ab	8.8 ab	96.3 ab	87.5 a-d
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
11 AUTHORITY ASSIST	2.5 oz ai/a	A	99.0 a	81.5 ab	1.3 b	5.5 b	6.8 ab	94.8 ab	84.0 a-d
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
12 AUTHORITY ASSIST	2.5 oz ai/a	A	99.0 a	73.8 a-d	7.5 ab	12.5 a	13.8 a	96.5 ab	87.8 a-d
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
13 AUTHORITY ELITE	21.9 oz ai/a	A	99.0 a	76.5 a-d	0.0 b	8.8 ab	8.8 ab	97.0 ab	83.5 bcd
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
14 AUTHORITY ELITE	21.9 oz ai/a	A	99.0 a	74.3 a-d	8.0 ab	11.8 ab	11.3 ab	98.5 a	86.3 a-d
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							

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Pest Type	W Weed				W Weed	W Weed	W Weed		
Pest Code	CHEAL				AMBTR	SETFA	CHEAL		
Pest Scientific Name	Chenopodium al>				Ambrosia trifi>	Setaria faberi	Chenopodium al>		
Pest Name	Common lambsqu>				Giant ragweed	Giant foxtail	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-25-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014		
Rating Type	CONTRO	PHYSTU	PHYLMA	PHYNEC	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%	%		
Sample Size, Unit									
Number of Subsamples	1	1	1	1	1	1	1		
Crop Stage Majority	V5	V5	V5	V5	V8	V8	V8		
Pest Stage Majority	10"				12-60"	6-36"	6-18"		
Pest Density, Unit	3 YD2				2 FT2	8 FT2	2 YD2		
Assessed By									
Days After First/Last Applic.	48 16	48 16	48 16	48 16	63 31	63 31	63 31		
Trt-Eval Interval									
Plant-Eval Interval	49 DP-1	49 DP-1	49 DP-1	49 DP-1	64 DP-1	64 DP-1	64 DP-1		
Days After Emergence	43 DE-1	43 DE-1	43 DE-1	43 DE-1	58 DE-1	58 DE-1	58 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	22	23	24	25	26	27	28
1 Untreated Check			0.0 b	0.0 d	0.0 b	0.0 b	0.0 b	0.0 c	0.0 b
2 AUTHORITY FIRST DF	4.5 oz ai/a	A	99.0 a	4.0 bcd	3.3 ab	4.5 a	84.5 a	57.5 b	99.0 a
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
3 AUTHORITY FIRST DF	4.5 oz ai/a	A	99.0 a	10.0 a	3.8 ab	3.8 a	96.8 a	81.3 ab	99.0 a
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
4 AUTHORITY FIRST DF	2.8 oz ai/a	A	99.0 a	8.3 ab	3.8 ab	4.0 a	97.8 a	87.3 a	99.0 a
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
5 AUTHORITY MTZ	5.4 oz ai/a	A	99.0 a	1.3 cd	6.3 a	4.0 a	70.8 a	71.0 ab	99.0 a
CADET	0.068 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
6 AUTHORITY MTZ	5.4 oz ai/a	A	99.0 a	3.8 bcd	3.3 ab	3.0 a	82.0 a	85.3 a	99.0 a
MARVEL	2.72 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							

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Pest Type	W Weed				W Weed	W Weed	W Weed	
Pest Code	CHEAL				AMBTR	SETFA	CHEAL	
Pest Scientific Name	Chenopodium al>				Ambrosia trifi>	Setaria faberi	Chenopodium al>	
Pest Name	Common lambsqu>				Giant ragweed	Giant foxtail	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-25-2014		Jun-25-2014		Jun-25-2014		Jul-10-2014	
Rating Type	CONTRO		PHYSTU		PHYNEC		CONTRO	
Rating Unit	%		%		%		CONTRO	
Sample Size, Unit	1		1		1		1	
Number of Subsamples	1		1		1		1	
Crop Stage Majority	V5		V5		V5		V8	
Pest Stage Majority	10"		12-60"		6-36"		6-18"	
Pest Density, Unit	3 YD2		2 FT2		8 FT2		2 YD2	
Assessed By	48 16		48 16		48 16		63 31	
Days After First/Last Applic.	48 16		48 16		48 16		63 31	
Trt-Eval Interval	49 DP-1		49 DP-1		49 DP-1		64 DP-1	
Plant-Eval Interval	43 DE-1		43 DE-1		43 DE-1		58 DE-1	
Days After Emergence	43 DE-1		43 DE-1		43 DE-1		58 DE-1	
Trt Treatment	Rate	Appl	22		23		24	
No. Name	Rate Unit	Code	25		26		27	
7 AUTHORITY XL	2.8 oz ai/a	A	99.0 a		2.5 bcd		3.5 ab	
CADET	0.068 oz ai/a	B	1.3 b		80.8 a		94.5 a	
ROUNDUP POWERMAX	1.38 lb ai/a	B	99.0 a		6.8 abc		3.5 ab	
COC	1 % v/v	B	99.0 a		3.5 ab		3.3 a	
AMS - Liquid	17 lb ai/100 gal	B	99.0 a		97.8 a		91.3 a	
8 AUTHORITY XL	2.8 oz ai/a	A	99.0 a		2.0 cd		4.8 ab	
MARVEL	2.72 oz ai/a	B	99.0 a		3.5 ab		4.5 a	
ROUNDUP POWERMAX	1.38 lb ai/a	B	99.0 a		60.0 a		84.5 a	
COC	1 % v/v	B	99.0 a		7.0 abc		3.5 ab	
AMS - Liquid	17 lb ai/100 gal	B	99.0 a		4.8 ab		4.5 a	
9 Authority Maxx (66 SG)	3.96 oz ai/a	A	99.0 a		1.3 cd		3.8 ab	
CADET	0.068 oz ai/a	B	99.0 a		4.3 a		81.3 a	
ROUNDUP POWERMAX	1.38 lb ai/a	B	99.0 a		2.0 cd		5.5 a	
COC	1 % v/v	B	99.0 a		5.5 a		5.0 a	
AMS - Liquid	17 lb ai/100 gal	B	99.0 a		87.0 a		92.3 a	
10 Authority Maxx (66 SG)	3.96 oz ai/a	A	99.0 a		0.8 cd		3.8 ab	
MARVEL	2.72 oz ai/a	B	99.0 a		3.8 ab		4.8 a	
ROUNDUP POWERMAX	1.38 lb ai/a	B	99.0 a		73.5 a		94.5 a	
COC	1 % v/v	B	99.0 a		80.0 a		97.0 a	
AMS - Liquid	17 lb ai/100 gal	B	99.0 a		99.0 a		99.0 a	
11 AUTHORITY ASSIST	2.5 oz ai/a	A	99.0 a		5.5 a-d		2.5 ab	
CADET	0.068 oz ai/a	B	99.0 a		2.5 ab		4.5 a	
ROUNDUP POWERMAX	1.38 lb ai/a	B	99.0 a		80.0 a		97.0 a	
COC	1 % v/v	B	99.0 a		99.0 a		99.0 a	
AMS - Liquid	17 lb ai/100 gal	B	99.0 a		99.0 a		99.0 a	
12 AUTHORITY ELITE	21.9 oz ai/a	A	99.0 a		5.5 a-d		2.5 ab	
CADET	0.068 oz ai/a	B	99.0 a		2.5 ab		4.5 a	
ROUNDUP POWERMAX	1.38 lb ai/a	B	99.0 a		80.0 a		97.0 a	
COC	1 % v/v	B	99.0 a		99.0 a		99.0 a	
AMS - Liquid	17 lb ai/100 gal	B	99.0 a		99.0 a		99.0 a	
13 AUTHORITY ELITE	21.9 oz ai/a	A	99.0 a		5.5 a-d		2.5 ab	
MARVEL	2.72 oz ai/a	B	99.0 a		2.5 ab		4.5 a	
ROUNDUP POWERMAX	1.38 lb ai/a	B	99.0 a		80.0 a		97.0 a	
COC	1 % v/v	B	99.0 a		99.0 a		99.0 a	
AMS - Liquid	17 lb ai/100 gal	B	99.0 a		99.0 a		99.0 a	
14 AUTHORITY ELITE	21.9 oz ai/a	A	99.0 a		5.5 a-d		2.5 ab	
MARVEL	2.72 oz ai/a	B	99.0 a		2.5 ab		4.5 a	
ROUNDUP POWERMAX	1.38 lb ai/a	B	99.0 a		80.0 a		97.0 a	
COC	1 % v/v	B	99.0 a		99.0 a		99.0 a	
AMS - Liquid	17 lb ai/100 gal	B	99.0 a		99.0 a		99.0 a	

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Pest Type	W Weed				W Weed	W Weed	W Weed		
Pest Code	CHEAL				AMBTR	SETFA	CHEAL		
Pest Scientific Name	Chenopodium al>				Ambrosia trifi>	Setaria faberi	Chenopodium al>		
Pest Name	Common lambsqu>				Giant ragweed	Giant foxtail	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-25-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014		
Rating Type	CONTRO	PHYSTU	PHYLMA	PHYNEC	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%	%		
Sample Size, Unit									
Number of Subsamples	1	1	1	1	1	1	1		
Crop Stage Majority	V5	V5	V5	V5	V8	V8	V8		
Pest Stage Majority	10"				12-60"	6-36"	6-18"		
Pest Density, Unit	3 YD2				2 FT2	8 FT2	2 YD2		
Assessed By									
Days After First/Last Applic.	48 16	48 16	48 16	48 16	63 31	63 31	63 31		
Trt-Eval Interval									
Plant-Eval Interval	49 DP-1	49 DP-1	49 DP-1	49 DP-1	64 DP-1	64 DP-1	64 DP-1		
Days After Emergence	43 DE-1	43 DE-1	43 DE-1	43 DE-1	58 DE-1	58 DE-1	58 DE-1		
Trt Treatment									
No. Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
	Unit	Unit	Unit	Unit	Unit	Unit	Unit		
Appl Code									
		22	23	24	25	26	27	28	
15 AUTHORITY FIRST DF	2.8 oz ai/a	A	99.0 a	2.8 bcd	6.0 a	4.0 a	86.0 a	98.5 a	99.0 a
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
16 AUTHORITY FIRST DF	4.5 oz ai/a	A	99.0 a	5.0 a-d	5.0 a	4.8 a	71.5 a	93.3 a	99.0 a
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
17 AUTHORITY MTZ	5.4 oz ai/a	A	99.0 a	1.5 cd	4.8 ab	4.0 a	68.5 a	93.5 a	99.0 a
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
18 AUTHORITY XL	2.8 oz ai/a	A	99.0 a	2.8 bcd	5.3 a	5.0 a	83.5 a	98.0 a	99.0 a
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
19 Authority Maxx (66 SG)	2.64 oz ai/a	A	99.0 a	2.8 bcd	4.3 ab	4.5 a	70.0 a	85.8 a	99.0 a
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
20 AUTHORITY ELITE	21.9 oz ai/a	A	99.0 a	1.3 cd	5.8 a	4.5 a	72.5 a	99.0 a	99.0 a
ANTHEM	1.61 oz ai/a	B							
ROUNDUP POWERMAX	1.38 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
LSD (P=.05)			0.00	3.46	2.78	1.52	21.77	18.15	0.00
Standard Deviation			0.00	2.45	1.96	1.07	15.40	12.83	0.00
CV			0.0	68.88	47.9	27.91	20.43	15.37	0.0
Bartlett's X2			0.0	15.565	36.471	9.628	39.833	56.041	0.0
P(Bartlett's X2)			.	0.555	0.006*	0.885	0.002*	0.001*	.
Replicate F			0.000	1.656	2.092	1.357	3.534	1.273	0.000
Replicate Prob(F)			1.0000	0.1867	0.1114	0.2651	0.0203	0.2924	1.0000
Treatment F			0.000	4.941	2.091	5.366	7.260	11.959	0.000
Treatment Prob(F)			1.0000	0.0001	0.0168	0.0001	0.0001	0.0001	1.0000

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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-10-2014	Oct-22-2014	
Rating Type	PHYSTU	YIELD	
Rating Unit	%	bu/ac	
Sample Size, Unit			
Number of Subsamples	1	1	
Crop Stage Majority	V8		
Pest Stage Majority			
Pest Density, Unit			
Assessed By			
Days After First/Last Applic.	63 31	167 135	
Trt-Eval Interval			
Plant-Eval Interval	64 DP-1	168 DP-1	
Days After Emergence	58 DE-1	162 DE-1	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
1 Untreated Check			29 30
2 AUTHORITY FIRST DF	4.5 oz ai/a	A	2.5 a 53.60 ab
CADET	0.068 oz ai/a	B	
ROUNDUP POWERMAX	1.38 lb ai/a	B	
COC	1 % v/v	B	
AMS - Liquid	17 lb ai/100 gal	B	
3 AUTHORITY FIRST DF	4.5 oz ai/a	A	4.3 a 49.55 b
MARVEL	2.72 oz ai/a	B	
ROUNDUP POWERMAX	1.38 lb ai/a	B	
COC	1 % v/v	B	
AMS - Liquid	17 lb ai/100 gal	B	
4 AUTHORITY FIRST DF	2.8 oz ai/a	A	4.0 a 57.05 ab
MARVEL	2.72 oz ai/a	B	
ROUNDUP POWERMAX	1.38 lb ai/a	B	
COC	1 % v/v	B	
AMS - Liquid	17 lb ai/100 gal	B	
5 AUTHORITY MTZ	5.4 oz ai/a	A	0.8 a 63.58 ab
CADET	0.068 oz ai/a	B	
ROUNDUP POWERMAX	1.38 lb ai/a	B	
COC	1 % v/v	B	
AMS - Liquid	17 lb ai/100 gal	B	
6 AUTHORITY MTZ	5.4 oz ai/a	A	3.0 a 62.83 ab
MARVEL	2.72 oz ai/a	B	
ROUNDUP POWERMAX	1.38 lb ai/a	B	
COC	1 % v/v	B	
AMS - Liquid	17 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-10-2014	Oct-22-2014		
Rating Type	PHYSTU	YIELD		
Rating Unit	%	bu/ac		
Sample Size, Unit				
Number of Subsamples	1	1		
Crop Stage Majority	V8			
Pest Stage Majority				
Pest Density, Unit				
Assessed By				
Days After First/Last Applic.	63 31	167 135		
Trt-Eval Interval				
Plant-Eval Interval	64 DP-1	168 DP-1		
Days After Emergence	58 DE-1	162 DE-1		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	29	30
7 AUTHORITY XL	2.8 oz ai/a	A	1.8 a	55.75 ab
CADET	0.068 oz ai/a	B		
ROUNDUP POWERMAX	1.38 lb ai/a	B		
COC	1 % v/v	B		
AMS - Liquid	17 lb ai/100 gal	B		
8 AUTHORITY XL	2.8 oz ai/a	A	2.3 a	56.23 ab
MARVEL	2.72 oz ai/a	B		
ROUNDUP POWERMAX	1.38 lb ai/a	B		
COC	1 % v/v	B		
AMS - Liquid	17 lb ai/100 gal	B		
9 Authority Maxx (66 SG)	3.96 oz ai/a	A	0.0 a	53.05 ab
CADET	0.068 oz ai/a	B		
ROUNDUP POWERMAX	1.38 lb ai/a	B		
COC	1 % v/v	B		
AMS - Liquid	17 lb ai/100 gal	B		
10 Authority Maxx (66 SG)	3.96 oz ai/a	A	2.5 a	52.43 ab
MARVEL	2.72 oz ai/a	B		
ROUNDUP POWERMAX	1.38 lb ai/a	B		
COC	1 % v/v	B		
AMS - Liquid	17 lb ai/100 gal	B		
11 AUTHORITY ASSIST	2.5 oz ai/a	A	0.0 a	69.80 ab
CADET	0.068 oz ai/a	B		
ROUNDUP POWERMAX	1.38 lb ai/a	B		
COC	1 % v/v	B		
AMS - Liquid	17 lb ai/100 gal	B		
12 AUTHORITY ASSIST	2.5 oz ai/a	A	2.8 a	72.45 a
MARVEL	2.72 oz ai/a	B		
ROUNDUP POWERMAX	1.38 lb ai/a	B		
COC	1 % v/v	B		
AMS - Liquid	17 lb ai/100 gal	B		
13 AUTHORITY ELITE	21.9 oz ai/a	A	1.3 a	65.93 ab
CADET	0.068 oz ai/a	B		
ROUNDUP POWERMAX	1.38 lb ai/a	B		
COC	1 % v/v	B		
AMS - Liquid	17 lb ai/100 gal	B		
14 AUTHORITY ELITE	21.9 oz ai/a	A	1.3 a	68.18 ab
MARVEL	2.72 oz ai/a	B		
ROUNDUP POWERMAX	1.38 lb ai/a	B		
COC	1 % v/v	B		
AMS - Liquid	17 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-10-2014	Oct-22-2014	
Rating Type		PHYSTU	YIELD	
Rating Unit		%	bu/ac	
Sample Size, Unit				
Number of Subsamples		1	1	
Crop Stage Majority		V8		
Pest Stage Majority				
Pest Density, Unit				
Assessed By				
Days After First/Last Applic.		63 31	167 135	
Trt-Eval Interval				
Plant-Eval Interval		64 DP-1	168 DP-1	
Days After Emergence		58 DE-1	162 DE-1	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	29	30
15 AUTHORITY FIRST DF	2.8 oz ai/a	A	0.0 a	67.83 ab
ANTHEM	1.61 oz ai/a	B		
ROUNDUP POWERMAX	1.38 lb ai/a	B		
COC	1 % v/v	B		
AMS - Liquid	17 lb ai/100 gal	B		
16 AUTHORITY FIRST DF	4.5 oz ai/a	A	1.0 a	50.75 b
ANTHEM	1.61 oz ai/a	B		
ROUNDUP POWERMAX	1.38 lb ai/a	B		
COC	1 % v/v	B		
AMS - Liquid	17 lb ai/100 gal	B		
17 AUTHORITY MTZ	5.4 oz ai/a	A	0.0 a	58.85 ab
ANTHEM	1.61 oz ai/a	B		
ROUNDUP POWERMAX	1.38 lb ai/a	B		
COC	1 % v/v	B		
AMS - Liquid	17 lb ai/100 gal	B		
18 AUTHORITY XL	2.8 oz ai/a	A	0.0 a	63.73 ab
ANTHEM	1.61 oz ai/a	B		
ROUNDUP POWERMAX	1.38 lb ai/a	B		
COC	1 % v/v	B		
AMS - Liquid	17 lb ai/100 gal	B		
19 Authority Maxx (66 SG)	2.64 oz ai/a	A	0.8 a	59.00 ab
ANTHEM	1.61 oz ai/a	B		
ROUNDUP POWERMAX	1.38 lb ai/a	B		
COC	1 % v/v	B		
AMS - Liquid	17 lb ai/100 gal	B		
20 AUTHORITY ELITE	21.9 oz ai/a	A	0.0 a	64.95 ab
ANTHEM	1.61 oz ai/a	B		
ROUNDUP POWERMAX	1.38 lb ai/a	B		
COC	1 % v/v	B		
AMS - Liquid	17 lb ai/100 gal	B		
LSD (P=.05)			3.02	11.445
Standard Deviation			2.14	8.093
CV			152.7	13.53
Bartlett's X2			4.393	26.562
P(Bartlett's X2)			0.975	0.115
Replicate F			2.006	8.209
Replicate Prob(F)			0.1234	0.0001
Treatment F			1.718	3.031
Treatment Prob(F)			0.0598	0.0006

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2014/SOYBEAN/AUTHORITY/ANTHEM/CADET/MARVEL/PRE/POST/RR PROGRAMS/

Trial ID: 14S-THP-CTS-50-2 Protocol ID: 14S-THP-CTS-50-2
 Location: Throckmorton Study Director:
 Project ID: SULF.SOY.14.JPR.01(a) 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
 ABUTH, Abutilon theophrasti, = US
 CHEAL, Chenopodium album, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

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

Rating Unit

% = percent
 bu/ac = bushels per acre

PLOT = total plot

FT2 = per square foot
 YD2 = per square yard

Plant-Eval Interval

15 DP-1 = 1 GLXMA May-7-2014
 21 DP-1 = 1 GLXMA May-7-2014
 27 DP-1 = 1 GLXMA May-7-2014
 33 DP-1 = 1 GLXMA May-7-2014
 40 DP-1 = 1 GLXMA May-7-2014
 49 DP-1 = 1 GLXMA May-7-2014
 64 DP-1 = 1 GLXMA May-7-2014
 168 DP-1 = 1 GLXMA May-7-2014