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ADAMA Soybean Concepts - Pre and Post Programs

Trial ID: 14S-THP-CTS-57 Protocol ID: 14S-THP-CTS-57
 Location: Throckmorton Study Director:
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact: ADAMA - Dario Narvaez

General Trial Information

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

Personnel

Investigator: Dr. Bill Johnson **Title:** Professor
Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA
Postal Code: 47907 **E-mail:** wj@purdue.edu
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Crop Description

Crop 1: GLXMA Glycine max Soybean
Description: RR2
BBCH Scale: BSOY

Pest Description

Pest 1 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters
Pest 2 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed
Pest 3 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

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:** RACOBL Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Application Description

	A	B
Application Date:	May-27-2014	Jun-25-2014
Time of Day:	AM	AM
Application Method:	SPRAY	SPRAY
Application Timing:	ATPLAN	EAPOWE
Application Placement:	SOIL	FOLIAR
Air Temperature, Unit:	79 F	82 F
% Relative Humidity:	57	83
Wind Velocity, Unit:	8.9 mph	3 mph
Wind Direction:	SW	NW
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	78 F	74 F
Soil Moisture:	Dry	Moist
% Cloud Cover:	50	30

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY

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Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	CHEAL W
Stage Majority, Percent:	2
Height Minimum, Maximum:	1 4
Density, Unit:	2 YD2
Pest 2 Code, Type, Scale:	AMBTR W
Stage Majority, Percent:	2
Height Minimum, Maximum:	1 5
Density, Unit:	1 YD2
Pest 3 Code, Type, Scale:	SETFA W
Stage Majority, Percent:	2
Height Minimum, Maximum:	1
Density, Unit:	3 FT2

Application Equipment

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

Date	By	Notes
Jun-6-2014		Trial not rated. No weeds present. Soybeans still emerging.

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Trial ID: 14S-THP-CTS-57 Protocol ID: 14S-THP-CTS-57
 Location: Throckmorton Study Director:
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact: ADAMA - Dario Narvaez

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	Other Rate	Other Rate	Growth Stage	Appl Code	Appl Description	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check												101	309	705	909
2	Prefix (5.29 EC)	5.29 LBA/GAL		EC	21.2 oz ai/a		2 pt/a	ATPLAN	A		31.31 ml/mx		105	409	712	912
3	Pummel (5.25 ME)	5.25 LBA/GAL		ME	15.7 oz ai/a		1.5 pt/a	ATPLAN	A		23.36 ml/mx		209	505	701	901
4	Pummel (5.25 ME)	5.25 LBA/GAL		ME	15.7 oz ai/a		1.5 pt/a	EAPOWE	B	V3-5	23.36 ml/mx		201	509	601	1012
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	12.4 oz ae/a		22 oz/a	EAPOWE	B	V3-5	21.53 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v	EAPOWE	B	V3-5	6.249 ml/mx					
5	Pummel (5.25 ME)	5.25 LBA/GAL		ME	21 oz ai/a		2 pt/a	ATPLAN	A		31.25 ml/mx		301	501	605	1001
6	Pummel (5.25 ME)	5.25 LBA/GAL		ME	21 oz ai/a		2 pt/a	EAPOWE	B	V3-5	31.25 ml/mx		305	412	709	812
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	12.4 oz ae/a		22 oz/a	EAPOWE	B	V3-5	21.53 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v	EAPOWE	B	V3-5	6.249 ml/mx					
7	Pummel (5.25 ME)	5.25 LBA/GAL		ME	21 oz ai/a		2 pt/a	ATPLAN	A		31.25 ml/mx		205	512	609	905
	Glory (75 DG)	75 %		WG	3 oz ai/a		4 oz/a	ATPLAN	A		3.745 g/mx					
8	Pummel (5.25 ME)	5.25 LBA/GAL		ME	21 oz ai/a		2 pt/a	ATPLAN	A		31.25 ml/mx		112	312	612	1009
	Rumble (1.88 L)	1.88 LBA/GAL		L	3.76 oz ai/a		1 pt/a	ATPLAN	A		15.62 ml/mx					
9	Pummel (5.25 ME)	5.25 LBA/GAL		ME	21 oz ai/a		2 pt/a	EAPOWE	B	V3-5	31.25 ml/mx		109	401	801	1005
	Rumble (1.88 L)	1.88 LBA/GAL		L	3.76 oz ai/a		1 pt/a	EAPOWE	B	V3-5	15.62 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v	EAPOWE	B	V3-5	6.249 ml/mx					
10	MANA 25337 (55 WG)	55 %		WG	1.76 oz ai/a		3.2 oz/a	ATPLAN	A		2.996 g/mx		212	405	805	809
11	MANA 25337 (55 WG)	55 %		WG	2.34 oz ai/a		4.25 oz/a	ATPLAN	A		3.983 g/mx		110	504	702	910
12	Torment (2.5 SL)	2.5 LBA/GAL		SL	5 oz ai/a		1 pt/a	ATPLAN	A		15.62 ml/mx		210	410	607	1004
13	Torment (2.5 SL)	2.5 LBA/GAL		SL	5 oz ai/a		1 pt/a	EAPOWE	B	V3-5	15.62 ml/mx		302	404	707	1010
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	12.4 oz ae/a		22 oz/a	EAPOWE	B	V3-5	21.53 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v	EAPOWE	B	V3-5	6.249 ml/mx					
14	Parallel (7.8 EC)	7.8 LBA/GAL		EC	19.5 oz ai/a		20 oz/a	ATPLAN	A		19.53 ml/mx		304	310	802	810
	Glory (75 DG)	75 %		WG	4.5 oz ai/a		6 oz/a	ATPLAN	A		5.617 g/mx					
	Torment (2.5 SL)	2.5 LBA/GAL		SL	5 oz ai/a		1 pt/a	EAPOWE	B	V3-5	15.62 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	12.4 oz ae/a		22 oz/a	EAPOWE	B	V3-5	21.53 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v	EAPOWE	B	V3-5	6.249 ml/mx					
15	Rumble (1.88 L)	1.88 LBA/GAL		L	3.76 oz ai/a		1 pt/a	EAPOWE	B	V3-5	15.62 ml/mx		204	402	602	1007
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	12.4 oz ae/a		22 oz/a	EAPOWE	B	V3-5	21.53 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v	EAPOWE	B	V3-5	6.249 ml/mx					
16	Warrant (3 CS)	3 LBA/GAL		SC	18 oz ai/a		3 pt/a	EAPOWE	B	V3-5	46.87 ml/mx		207	502	710	904
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	12.4 oz ae/a		22 oz/a	EAPOWE	B	V3-5	21.53 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v	EAPOWE	B	V3-5	6.249 ml/mx					
17	Cobra	2 LBA/GAL		EC	1.5 oz ai/a		6 oz/a	EAPOWE	B	V3-5	5.859 ml/mx		104	407	804	1002
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	12.4 oz ae/a		22 oz/a	EAPOWE	B	V3-5	21.53 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v	EAPOWE	B	V3-5	6.249 ml/mx					
18	Authority First (70 WG)	70 %		WG	4.5 oz ai/a		6.4 oz/a	ATPLAN	A		6.018 g/mx		102	307	610	907
19	Authority Assist (4 SC)	4 LB/GAL		SC	2.5 oz ai/a		5 oz/a	ATPLAN	A		4.882 ml/mx		107	507	704	902
20	Authority MTZ (45 WG)	45 %		WG	5.4 oz ai/a		12 oz/a	ATPLAN	A		11.23 g/mx		202	510	604	807
21	Authority XL (70 WG)	70 %		WG	2.8 oz ai/a		4 oz/a	ATPLAN	A		3.745 g/mx		211	406	703	908
22	Authority Elite (7 SC)	7 LBA/GAL		SC	21.9 oz ai/a		25 oz/a	ATPLAN	A		24.44 ml/mx		103	506	611	906
23	Matador (4.7 EC)	4.7 LBA/GAL		EC	24.7 oz ai/a		42 oz/a	ATPLAN	A		41.05 ml/mx		306	508	708	911
24	Valor SX (51 WG)	51 %		WG	1.2 oz ai/a		2.35 oz/a	ATPLAN	A		2.203 g/mx		106	403	608	903
	Classic	25 %AW/W		DF	0.412 oz ai/a		1.65 oz/a	ATPLAN	A		1.543 g/mx					
25	Fierce XLT	62.41 %		WG	2.5 oz ai/a		4 oz/a	ATPLAN	A		3.75 g/mx		203	503	706	811
26	Warrant (3 CS)	3 LBA/GAL		SC	18 oz ai/a		3 pt/a	ATPLAN	A		46.87 ml/mx		108	311	606	1011

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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	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Appl Description	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
27	Fierce XLT	62.41 %		WG	2.5 oz ai/a		4 oz/a		ATPLAN	A		3.75 g/mx		303	308	806	1008
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	12.4 oz ae/a		22 oz/a		EAPOWE	B	V3-5	21.53 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v		EAPOWE	B	V3-5	6.249 ml/mx					
28	MANA 25337 (55 WG)	55 %		WG	2.34 oz ai/a		4.25 oz/a		ATPLAN	A		3.983 g/mx		206	408	711	1006
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	12.4 oz ae/a		22 oz/a		EAPOWE	B	V3-5	21.53 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v		EAPOWE	B	V3-5	6.249 ml/mx					
29	Authority First (70 WG)	70 %		WG	4.5 oz ai/a		6.4 oz/a		ATPLAN	A		6.018 g/mx		111	411	803	808
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	12.4 oz ae/a		22 oz/a		EAPOWE	B	V3-5	21.53 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v		EAPOWE	B	V3-5	6.249 ml/mx					
30	Matador (4.7 EC)	4.7 LBA/GAL		EC	24.7 oz ai/a		42 oz/a		ATPLAN	A		41.05 ml/mx		208	511	603	1003
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	12.4 oz ae/a		22 oz/a		EAPOWE	B	V3-5	21.53 ml/mx					
	NIS	100 %		SL	0.25 % v/v		0.25 % v/v		EAPOWE	B	V3-5	6.249 ml/mx					

Sort Order: Treatment

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Trial ID: 14S-THP-CTS-57 Protocol ID: 14S-THP-CTS-57
 Location: Throckmorton Study Director:
 Project ID: Investigator: Dr. Bill Johnson
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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						
BBCH Scale			BSOY	BSOY						
Crop Scientific Name			Glycine max	Glycine max						
Crop Name			Soybean	Soybean						
Rating Date	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-18-2014	Jun-18-2014				
Rating Type	CONTRO	CONTRO	PHYLMA	PHYCHL	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT				
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority					V1	V1				
Pest Stage Majority	2.5"	3"			4"	8"				
Pest Density, Unit	4 FT2	2 YD2			5 FT2	2 YD2				
Days After First/Last Applic.	16 16	16 16	16 16	16 16	22 22	22 22				
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	0.0	0.0	0.0
				309	0.0	0.0	0.0	0.0	0.0	0.0
				705	0.0	0.0	0.0	0.0	0.0	0.0
				909	0.0	0.0	0.0	0.0	0.0	0.0
				Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2 Prefix (5.29 EC)	21.2 oz ai/a	A		105	84.1*	67.9*	7.0	0.0	90.0	0.0
				409	70.0	60.0	5.0	7.0	92.8*	0.0
				712	99.0	90.0	0.0	0.0	99.0	80.0
				912	99.0	97.0	3.0	0.0	85.0	70.0
				Mean =	88.0	78.7	3.8	1.8	91.7	37.5
3 Pummel (5.25 ME)	15.7 oz ai/a	A		209	99.0	70.0	10.0	0.0	95.0	40.0
				505	99.0	75.0	0.0	5.0	99.0	60.0
				701	99.0	87.0	5.0	7.0	85.0	50.0
				901	90.0	85.0	10.0	3.0	80.0	85.0
				Mean =	96.8	79.3	6.3	3.8	89.8	58.8
4 Pummel (5.25 ME)	15.7 oz ai/a	B		201	0.0	0.0	5.0	5.0	0.0	0.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B		509	70.0	40.0	0.0	3.0	0.0	0.0
NIS	0.25 % v/v	B		601	0.0	0.0	10.0	5.0	30.0	0.0
				1012	60.0	80.0	0.0	0.0	70.0	5.9*
				Mean =	32.5	30.0	3.8	3.3	25.0	1.5
5 Pummel (5.25 ME)	21 oz ai/a	A		301	99.0	30.0	7.0	5.0	99.0	30.0
				501	99.0	85.0	7.0	0.0	99.0	85.0
				605	99.0	50.0	3.0	3.0	99.0	40.0
				1001	99.0	87.0	5.0	3.0	90.0	85.0
				Mean =	99.0	63.0	5.5	2.8	96.8	60.0
6 Pummel (5.25 ME)	21 oz ai/a	B		305	0.0	0.0	5.0	3.0	30.0	0.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B		412	33.9*	90.0	0.0	5.0	60.0	70.0
NIS	0.25 % v/v	B		709	0.0	0.0	5.0	7.0	50.0	0.0
				812	90.0	31.0*	3.0	3.0	60.0	80.0
				Mean =	31.0	30.2	3.3	4.5	50.0	37.5

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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						
BBCH Scale			BSOY	BSOY						
Crop Scientific Name			Glycine max	Glycine max						
Crop Name			Soybean	Soybean						
Rating Date	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-18-2014	Jun-18-2014				
Rating Type	CONTRO	CONTRO	PHYLMA	PHYCHL	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT				
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority					V1	V1				
Pest Stage Majority	2.5"	3"			4"	8"				
Pest Density, Unit	4 FT2	2 YD2			5 FT2	2 YD2				
Days After First/Last Applic.	16 16	16 16	16 16	16 16	22 22	22 22				
Trt Treatment	Rate	Appl								
No. Name	Rate	Unit	Code	Plot	1	2	3	4	5	6
7 Pummel (5.25 ME)	21 oz ai/a	A	205		99.0	0.0	10.0	7.0	99.0	0.0
Glory (75 DG)	3 oz ai/a	A	512		99.0	31.6*	0.0	5.0	99.0	34.6*
			609		99.0	0.0	5.0	5.0	90.0	0.0
			905		99.0	50.0	5.0	3.0	99.0	70.0
			Mean =		99.0	20.4	5.0	5.0	96.8	26.2
8 Pummel (5.25 ME)	21 oz ai/a	A	112		99.0	99.0	10.0	5.0	95.0	99.0
Rumble (1.88 L)	3.76 oz ai/a	A	312		99.0	95.0	10.0	3.0	99.0	99.0
			612		99.0	87.0	0.0	7.0	99.0	87.0
			1009		99.0	60.0	5.0	0.0	99.0	70.0
			Mean =		99.0	85.3	6.3	3.8	98.0	88.8
9 Pummel (5.25 ME)	21 oz ai/a	B	109		0.0	0.0	5.0	0.0	0.0	0.0
Rumble (1.88 L)	3.76 oz ai/a	B	401		0.0	0.0	10.0	3.0	50.0	30.0
NIS	0.25 % v/v	B	801		0.0	0.0	7.0	5.0	0.0	80.0
			1005		0.0	0.0	7.0	0.0	0.0	0.0
			Mean =		0.0	0.0	7.3	2.0	12.5	27.5
10 MANA 25337 (55 WG)	1.76 oz ai/a	A	212		99.0	99.0	7.0	0.0	93.0	99.0
			405		99.0	80.0	5.0	3.0	95.0	85.0
			805		99.0	75.0	10.0	3.0	90.0	50.0
			809		99.0	60.0	0.0	5.0	90.0	40.0
			Mean =		99.0	78.5	5.5	2.8	92.0	68.5
11 MANA 25337 (55 WG)	2.34 oz ai/a	A	110		99.0	80.0	7.0	0.0	95.0	95.0
			504		99.0	99.0	10.0	7.0	95.0	95.0
			702		99.0	50.0	3.0	5.0	99.0	60.0
			910		99.0	75.0	7.0	0.0	99.0	80.0
			Mean =		99.0	76.0	6.8	3.0	97.0	82.5
12 Torment (2.5 SL)	5 oz ai/a	A	210		99.0	0.0	9.0	0.0	95.0	20.0
			410		99.0	85.0	5.0	5.0	99.0	85.0
			607		99.0	80.0	0.0	0.0	99.0	75.0
			1004		100.0*	0.0	7.0	0.0	75.0	20.0
			Mean =		99.3	41.3	5.3	1.3	92.0	50.0
13 Torment (2.5 SL)	5 oz ai/a	B	302		0.0	0.0	7.0	3.0	50.0	0.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B	404		80.0	70.0	7.0	3.0	80.0	70.0
NIS	0.25 % v/v	B	707		0.0	0.0	0.0	7.0	0.0	0.0
			1010		0.0	0.0	3.0	0.0	0.0	0.0
			Mean =		20.0	17.5	4.3	3.3	32.5	17.5

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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				
BBCH Scale			BSOY	BSOY				
Crop Scientific Name			Glycine max	Glycine max				
Crop Name			Soybean	Soybean				
Rating Date	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-18-2014	Jun-18-2014		
Rating Type	CONTRO	CONTRO	PHYLMA	PHYCHL	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority					V1	V1		
Pest Stage Majority	2.5"	3"			4"	8"		
Pest Density, Unit	4 FT2	2 YD2			5 FT2	2 YD2		
Days After First/Last Applic.	16 16	16 16	16 16	16 16	22 22	22 22		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
14 Parallel (7.8 EC)	19.5 oz ai/a	A 304	99.0	0.0	5.0	5.0	99.0	0.0
Glory (75 DG)	4.5 oz ai/a	A 310	99.0	60.0	10.0	3.0	90.0	60.0
Torment (2.5 SL)	5 oz ai/a	B 802	99.0	0.0	7.0	3.0	99.0	30.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 810	99.0	30.0	7.0	3.0	99.0	50.0
NIS	0.25 % v/v	B						
		Mean =	99.0	22.5	7.3	3.5	96.8	35.0
15 Rumble (1.88 L)	3.76 oz ai/a	B 204	90.0	70.0	7.0	7.0	70.0	30.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 402	80.0	0.0	5.0	3.0	0.0	0.0
NIS	0.25 % v/v	B 602	99.0	75.0	0.0	5.0	24.1*	50.0
		1007	93.9*	0.0	3.0	0.0	0.0	0.0
		Mean =	90.7	36.3	3.8	3.8	23.5	20.0
16 Warrant (3 CS)	18 oz ai/a	B 207	0.0	0.0	5.0	0.0	0.0	0.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 502	50.0	70.0	5.0	7.0	20.0	60.0
NIS	0.25 % v/v	B 710	0.0	80.0	0.0	5.0	20.0	60.0
		904	70.0	30.0	10.0	5.0	60.0	0.0
		Mean =	30.0	45.0	5.0	4.3	25.0	30.0
17 Cobra	1.5 oz ai/a	B 104	0.0	0.0	5.0	3.0	0.0	0.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 407	0.0	0.0	0.0	3.0	0.0	75.0
NIS	0.25 % v/v	B 804	0.0	0.0	5.0	3.0	0.0	0.0
		1002	0.0	0.0	5.0	0.0	0.0	0.0
		Mean =	0.0	0.0	3.8	2.3	0.0	18.8
18 Authority First (70 WG)	4.5 oz ai/a	A 102	97.0	95.0	10.0	3.0	90.0	85.0
		307	60.0	80.0	5.0	3.0	50.0	93.0
		610	70.0	50.0	0.0	3.0	85.0	60.0
		907	85.0	95.0	6.0	0.0	60.0	95.0
		Mean =	78.0	80.0	5.3	2.3	71.3	83.3
19 Authority Assist (4 SC)	2.5 oz ai/a	A 107	50.0	40.0	5.0	0.0	50.0	0.0
		507	90.0	60.0	0.0	3.0	40.0	0.0
		704	99.0	70.0	5.0	3.0	99.0	50.0
		902	90.0	85.0	5.0	3.0	80.0	60.0
		Mean =	82.3	63.8	3.8	2.3	67.3	27.5
20 Authority MTZ (45 WG)	5.4 oz ai/a	A 202	99.0	0.0	5.0	3.0	90.0	0.0
		510	99.0	50.0	0.0	3.0	90.0	30.0
		604	99.0	0.0	5.0	3.0	90.0	0.0
		807	100.0*	0.0	5.0	0.0	80.0	0.0
		Mean =	99.3	12.5	3.8	2.3	87.5	7.5

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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				
BBCH Scale			BSOY	BSOY				
Crop Scientific Name			Glycine max	Glycine max				
Crop Name			Soybean	Soybean				
Rating Date	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-18-2014	Jun-18-2014		
Rating Type	CONTRO	CONTRO	PHYLMA	PHYCHL	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority					V1	V1		
Pest Stage Majority	2.5"	3"			4"	8"		
Pest Density, Unit	4 FT2	2 YD2			5 FT2	2 YD2		
Days After First/Last Applic.	16 16	16 16	16 16	16 16	22 22	22 22		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
21 Authority XL (70 WG)	2.8 oz ai/a A	211	99.0	70.0	5.0	3.0	93.0	80.0
		406	89.9*	40.0	0.0	3.0	87.0	95.0
		703	99.0	92.0	7.0	5.0	99.0	99.0
		908	60.0	70.0	5.0	3.0	70.0	60.0
		Mean =	87.0	68.0	4.3	3.5	87.3	83.5
22 Authority Elite (7 SC)	21.9 oz ai/a A	103	99.0	50.0	5.0	0.0	85.0	0.0
		506	99.0	80.0	5.0	0.0	99.0	20.0
		611	99.0	99.0	0.0	7.0	99.0	40.0
		906	99.0	99.0	10.0	0.0	95.0	80.0
		Mean =	99.0	82.0	5.0	1.8	94.5	35.0
23 Matador (4.7 EC)	24.7 oz ai/a A	306	99.0	30.0	5.0	3.0	99.0	40.0
		508	99.0	50.0	5.0	3.0	95.0	40.0
		708	96.1*	20.0	3.0	8.0	99.0	20.0
		911	99.0	85.0	5.0	3.0	99.0	85.0
		Mean =	98.3	46.3	4.5	4.3	98.0	46.3
24 Valor SX (51 WG) Classic	1.2 oz ai/a A 0.412 oz ai/a A	106	87.8*	66.6*	5.0	3.0	89.4*	50.0
		403	90.0	70.0	10.0	5.0	90.0	60.0
		608	99.0	93.0	5.0	3.0	90.0	83.0
		903	90.0	80.0	10.0	0.0	85.0	80.0
		Mean =	91.7	77.4	7.5	2.8	88.6	68.3
25 Fierce XLT	2.5 oz ai/a A	203	99.0	50.0	10.0	0.0	99.0	60.0
		503	99.0	99.0	15.0	5.0	99.0	99.0
		706	99.0	90.0	10.0	5.0	99.0	83.0
		811	99.0	99.0	10.0	3.0	99.0	99.0
		Mean =	99.0	84.5	11.3	3.3	99.0	85.3
26 Warrant (3 CS)	18 oz ai/a A	108	93.8*	40.0	5.0	3.0	94.0*	0.0
		311	99.0	75.0	5.0	0.0	90.0	30.0
		606	99.0	50.0	0.0	3.0	99.0	50.0
		1011	99.0	70.0	5.0	0.0	90.0	70.0
		Mean =	97.7	58.8	3.8	1.5	93.3	37.5
27 Fierce XLT Roundup PowerMax 4.5 SL NIS	2.5 oz ai/a A 12.4 oz ae/a B 0.25 % v/v B	303	99.0	80.0	10.0	0.0	99.0	60.0
		308	99.0	60.0	10.0	3.0	99.0	30.0
		806	99.0	85.0	15.0	7.0	99.0	75.0
		1008	99.0	75.0	10.0	5.0	99.0	83.0
		Mean =	99.0	75.0	11.3	3.8	99.0	62.0

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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		
BBCH Scale			BSOY	BSOY		
Crop Scientific Name			Glycine max	Glycine max		
Crop Name			Soybean	Soybean		
Rating Date	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-18-2014	Jun-18-2014
Rating Type	CONTRO	CONTRO	PHYLMA	PHYCHL	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority					V1	V1
Pest Stage Majority	2.5"	3"			4"	8"
Pest Density, Unit	4 FT2	2 YD2			5 FT2	2 YD2
Days After First/Last Applic.	16 16	16 16	16 16	16 16	22 22	22 22
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	1	2	3	4
28 MANA 25337 (55 WG)	2.34 oz ai/a A	206	99.0	30.0	10.0	3.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B	408	90.0	80.0	5.0	3.0
NIS	0.25 % v/v B	711	99.0	93.0	3.0	3.0
		1006	90.0	60.0	5.0	0.0
		Mean =	94.5	65.8	5.8	2.3
29 Authority First (70 WG)	4.5 oz ai/a A	111	90.0	99.0	7.0	0.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B	411	90.0	99.0	3.0	0.0
NIS	0.25 % v/v B	803	80.0	30.0	7.0	0.0
		808	70.0	40.0	3.0	3.0
		Mean =	82.5	67.0	5.0	0.8
30 Matador (4.7 EC)	24.7 oz ai/a A	208	95.0	50.0	7.0	0.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B	511	99.0	93.0	0.0	7.0
NIS	0.25 % v/v B	603	99.0	60.0	5.0	3.0
		1003	100.0*	20.0	3.0	3.0
		Mean =	98.3	55.8	3.8	3.3

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	CHEAL	SETFA	AMBTR	AMARE	CHEAL			
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Chenopodium al>			
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsqu>			
Crop Code		GLXMA						
BBCH Scale		BSOY						
Crop Scientific Name		Glycine max						
Crop Name		Soybean						
Rating Date	Jun-18-2014	Jun-18-2014	Jun-24-2014	Jun-24-2014	Jun-24-2014			
Rating Type	CONTRO	PHYSTU	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT			
Number of Subsamples	1	1	1	1	1			
Crop Stage Majority	V1	V1						
Pest Stage Majority	.75"		7"	10"	1.5"			
Pest Density, Unit	1 YD2		5 FT2	2 YD2	2 FT2			
Days After First/Last Applic.	22 22	22 22	28 28	28 28	28 28			
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	7	8	9	10	11	12
7 Pummel (5.25 ME)	21 oz ai/a	A 205	99.0	0.0	99.0	30.0	99.0	99.0
Glory (75 DG)	3 oz ai/a	A 512	99.0	0.0	99.0	51.2*	99.0	99.0
		609	99.0	0.0	97.0	0.0	99.0	99.0
		905	99.0	0.0	99.0	80.0	99.0	99.0
		Mean =	99.0	0.0	98.5	40.3	99.0	99.0
8 Pummel (5.25 ME)	21 oz ai/a	A 112	99.0	0.0	95.0	99.0	99.0	99.0
Rumble (1.88 L)	3.76 oz ai/a	A 312	99.0	0.0	97.0	99.0	99.0	99.0
		612	99.0	0.0	99.0	85.0	99.0	99.0
		1009	99.0	0.0	99.0	70.0	99.0	99.0
		Mean =	99.0	0.0	97.5	88.3	99.0	99.0
9 Pummel (5.25 ME)	21 oz ai/a	B 109	0.0	0.0	0.0	0.0	0.0	0.0
Rumble (1.88 L)	3.76 oz ai/a	B 401	0.0	0.0	0.0*	14.5*	11.9*	2.4*
NIS	0.25 % v/v	B 801	0.0	0.0	0.0	0.0	12.0*	0.0
		1005	0.0	0.0	0.0	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0	3.6	6.0	0.6
10 MANA 25337 (55 WG)	1.76 oz ai/a	A 212	99.0	0.0	94.0	99.0	99.0	99.0
		405	99.0	0.0	93.0	85.0	99.0	99.0
		805	99.0	0.0	94.0	80.0	99.0	99.0
		809	99.0	0.0	90.0	50.0	99.0	99.0
		Mean =	99.0	0.0	92.8	78.5	99.0	99.0
11 MANA 25337 (55 WG)	2.34 oz ai/a	A 110	99.0	0.0	95.0	85.0	99.0	70.0
		504	99.0	0.0	95.0	95.0	99.0	99.0
		702	99.0	0.0	97.0	70.0	99.0	99.0
		910	99.0	0.0	95.0	83.0	99.0	99.0
		Mean =	99.0	0.0	95.5	83.3	99.0	91.8
12 Torment (2.5 SL)	5 oz ai/a	A 210	99.0	0.0	97.0	65.0	99.0	99.0
		410	99.0	0.0	93.0	90.0	99.0	99.0
		607	99.0	0.0	90.0	75.0	99.0	95.0
		1004	99.0	0.0	70.0	50.0	99.0	80.0
		Mean =	99.0	0.0	87.5	70.0	99.0	93.3
13 Torment (2.5 SL)	5 oz ai/a	B 302	80.0	0.0	70.0	0.0	0.0	50.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 404	0.0	0.0	85.0	65.0	99.0	0.0
NIS	0.25 % v/v	B 707	0.0	0.0	30.0	0.0	99.0	0.0
		1010	0.0	0.0	40.0	0.0	0.0	0.0
		Mean =	20.0	0.0	56.3	16.3	49.5	12.5

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	CHEAL	SETFA	AMBTR	AMARE	CHEAL			
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Chenopodium al>			
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsqu>			
Crop Code		GLXMA						
BBCH Scale		BSOY						
Crop Scientific Name		Glycine max						
Crop Name		Soybean						
Rating Date	Jun-18-2014	Jun-18-2014	Jun-24-2014	Jun-24-2014	Jun-24-2014			
Rating Type	CONTRO	PHYSTU	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT			
Number of Subsamples	1	1	1	1	1			
Crop Stage Majority	V1	V1						
Pest Stage Majority	.75"		7"	10"	2"			
Pest Density, Unit	1 YD2		5 FT2	2 YD2	2 YD2			
Days After First/Last Applic.	22 22	22 22	28 28	28 28	28 28			
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	7	8	9	10	11	12
14 Parallel (7.8 EC)	19.5 oz ai/a	A 304	99.0	0.0	99.0	20.0	99.0	99.0
Glory (75 DG)	4.5 oz ai/a	A 310	99.0	0.0	99.0	82.0	99.0	99.0
Torment (2.5 SL)	5 oz ai/a	B 802	99.0	0.0	95.0	30.0	99.0	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 810	99.0	0.0	99.0	65.0	99.0	99.0
NIS	0.25 % v/v	B						
		Mean =	99.0	0.0	98.0	49.3	99.0	99.0
15 Rumble (1.88 L)	3.76 oz ai/a	B 204	90.0	0.0	80.0	20.0	0.0	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 402	40.0	0.0	60.0	0.0	0.0	50.0
NIS	0.25 % v/v	B 602	85.0	0.0	70.0	65.0	50.0	99.0
		1007	30.0	0.0	30.0	0.0	0.0	40.0
		Mean =	61.3	0.0	60.0	21.3	12.5	72.0
16 Warrant (3 CS)	18 oz ai/a	B 207	0.0	0.0	0.0	0.0	0.0	0.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 502	70.0	0.0	0.0	0.0	0.0	99.0
NIS	0.25 % v/v	B 710	80.0	0.0	0.0	70.0	50.0	40.0
		904	0.0	0.0	80.0	0.0	40.0	60.0
		Mean =	37.5	0.0	20.0	17.5	22.5	49.8
17 Cobra	1.5 oz ai/a	B 104	0.0	0.0	0.0	0.0	0.0	0.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 407	0.0	0.0	0.0	87.0	99.0	40.0
NIS	0.25 % v/v	B 804	0.0	0.0	60.0	0.0	99.0	20.0
		1002	0.0	0.0	0.0	0.0	0.0	0.0
		Mean =	0.0	0.0	15.0	21.8	49.5	15.0
18 Authority First (70 WG)	4.5 oz ai/a	A 102	99.0	0.0	93.0	87.0	99.0	99.0
		307	99.0	0.0	80.0	94.0	99.0	99.0
		610	99.0	0.0	87.0	60.0	99.0	99.0
		907	99.0	0.0	85.0	97.0	99.0	99.0
		Mean =	99.0	0.0	86.3	84.5	99.0	99.0
19 Authority Assist (4 SC)	2.5 oz ai/a	A 107	100.0*	0.0	85.0	0.0	99.0	99.5*
		507	99.0	0.0	60.0	0.0	99.0	99.0
		704	99.0	0.0	97.0	50.0	99.0	99.0
		902	99.0	0.0	85.0	65.0	99.0	99.0
		Mean =	99.3	0.0	81.8	28.8	99.0	99.1
20 Authority MTZ (45 WG)	5.4 oz ai/a	A 202	99.0	0.0	93.0	0.0	99.0	99.0
		510	99.0	0.0	90.0	60.0	99.0	99.0
		604	99.0	0.0	99.0	0.0	99.0	99.0
		807	99.0	0.0	70.0	0.0	99.0	99.0
		Mean =	99.0	0.0	88.0	15.0	99.0	99.0

Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	CHEAL	SETFA	AMBTR	AMARE	CHEAL				
Pest Scientific Name	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Chenopodium al>				
Pest Name	Common lambsqu>	Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsqu>				
Crop Code		GLXMA							
BBCH Scale		BSOY							
Crop Scientific Name		Glycine max							
Crop Name		Soybean							
Rating Date	Jun-18-2014	Jun-18-2014	Jun-24-2014	Jun-24-2014	Jun-24-2014				
Rating Type	CONTRO	PHYSTU	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT				
Number of Subsamples	1	1	1	1	1				
Crop Stage Majority	V1	V1							
Pest Stage Majority	.75"		7"	10"	1.5"				
Pest Density, Unit	1 YD2		5 FT2	2 YD2	2 FT2				
Days After First/Last Applic.	22 22	22 22	28 28	28 28	28 28				
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot	7	8	9	10	11	12	
21 Authority XL (70 WG)	2.8 oz ai/a	A	211	99.0	0.0	90.0	70.0	99.0	99.0
			406	99.0	0.0	85.0	99.0	99.0	99.0
			703	99.0	0.0	99.0	95.0	99.0	99.0
			908	99.0	0.0	70.0	40.0	99.0	99.0
			Mean =	99.0	0.0	86.0	76.0	99.0	99.0
22 Authority Elite (7 SC)	21.9 oz ai/a	A	103	100.0*	0.0	95.0	0.0	99.0	99.5*
			506	99.0	0.0	99.0	50.0	99.0	99.0
			611	99.0	0.0	99.0	70.0	99.0	99.0
			906	99.0	0.0	95.0	86.0	99.0	99.0
			Mean =	99.3	0.0	97.0	51.5	99.0	99.1
23 Matador (4.7 EC)	24.7 oz ai/a	A	306	99.0	0.0	95.0	85.0	99.0	99.0
			508	99.0	0.0	99.0	50.0	99.0	99.0
			708	99.0	0.0	95.0	20.0	99.0	99.0
			911	99.0	0.0	97.0	85.0	99.0	99.0
			Mean =	99.0	0.0	96.5	60.0	99.0	99.0
24 Valor SX (51 WG)	1.2 oz ai/a	A	106	100.0*	0.0	80.0	40.0	99.0	99.0
Classic	0.412 oz ai/a	A	403	99.0	0.0	99.0	70.0	99.0	99.0
			608	99.0	0.0	92.0	80.0	99.0	99.0
			903	99.0	0.0	87.0	86.0	99.0	99.0
			Mean =	99.3	0.0	89.5	69.0	99.0	99.0
25 Fierce XLT	2.5 oz ai/a	A	203	99.0	0.0	95.0	65.0	99.0	99.0
			503	99.0	0.0	99.0	99.0	99.0	99.0
			706	99.0	0.0	99.0	92.0	99.0	99.0
			811	99.0	0.0	99.0	50.0	99.0	99.0
			Mean =	99.0	0.0	98.0	76.5	99.0	99.0
26 Warrant (3 CS)	18 oz ai/a	A	108	99.0	0.0	99.0	0.0	99.0	94.8*
			311	99.0	0.0	95.0	60.0	99.0	99.0
			606	99.0	0.0	94.0	40.0	99.0	99.0
			1011	60.0	0.0	90.0	70.0	99.0	85.0
			Mean =	89.3	0.0	94.5	42.5	99.0	94.5
27 Fierce XLT	2.5 oz ai/a	A	303	99.0	0.0	95.0	82.0	99.0	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B	308	99.0	0.0	99.0	60.0	99.0	99.0
NIS	0.25 % v/v	B	806	99.0	0.0	99.0	75.0	99.0	99.0
			1008	99.0	0.0	99.0	80.0	99.0	99.0
			Mean =	99.0	0.0	98.0	74.3	99.0	99.0

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Pest Type	W Weed		W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL		SETFA	AMBTR	AMARE	CHEAL
Pest Scientific Name	Chenopodium al>		Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Chenopodium al>
Pest Name	Common lambsqu>		Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsqu>
Crop Code		GLXMA				
BBCH Scale		BSOY				
Crop Scientific Name		Glycine max				
Crop Name		Soybean				
Rating Date	Jun-18-2014	Jun-18-2014	Jun-24-2014	Jun-24-2014	Jun-24-2014	Jun-24-2014
Rating Type	CONTRO	PHYSTU	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V1	V1				
Pest Stage Majority	.75"		7"	10"	2"	1.5"
Pest Density, Unit	1 YD2		5 FT2	2 YD2	2 YD2	2 FT2
Days After First/Last Applic.	22 22	22 22	28 28	28 28	28 28	28 28
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	7	8	9	10
28 MANA 25337 (55 WG)	2.34 oz ai/a A	206	99.0	0.0	95.0	60.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B	408	99.0	0.0	93.0	70.0
NIS	0.25 % v/v B	711	99.0	0.0	95.0	90.0
		1006	99.0	0.0	90.0	84.0
		Mean =	99.0	0.0	93.3	76.0
29 Authority First (70 WG)	4.5 oz ai/a A	111	99.0	0.0	90.0	90.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B	411	99.0	0.0	92.0	90.0
NIS	0.25 % v/v B	803	99.0	0.0	87.0	40.0
		808	99.0	0.0	80.0	50.0
		Mean =	99.0	0.0	87.3	67.5
30 Matador (4.7 EC)	24.7 oz ai/a A	208	99.0	0.0	93.0	83.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B	511	99.0	0.0	99.0	95.0
NIS	0.25 % v/v B	603	99.0	0.0	99.0	60.0
		1003	94.4*	0.0	99.0	40.0
		Mean =	97.9	0.0	97.5	69.5

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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	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	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014		
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU	PHYNEC	PHYLMA	PHYCHL				
Rating Unit	%	%	%	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1	1	1	1	1		
Crop Stage Majority	V6	V6	V6	V6	V6	V6	V6	V6	V6		
Pest Stage Majority	15"	24"	6"								
Pest Density, Unit	5 FT2	2 YD2	2 FT2								
Days After First/Last Applic.	36 7	36 7	36 7	36 7	36 7	36 7	36 7	36 7	36 7		
Trt Treatment	Rate	Appl									
No. Name	Rate	Unit	Code	Plot	13	14	15	16	17	18	19
1 Untreated Check				101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				309	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				705	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				909	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Prefix (5.29 EC)	21.2 oz ai/a	A		105	85.0	0.0	99.0	0.0	0.0	0.0	0.0
				409	70.0	0.0	85.0	0.0	0.0	0.0	0.0
				712	50.0	70.0	60.0	0.0	0.0	0.0	0.0
				912	40.0	30.0	50.0	0.0	0.0	0.0	0.0
				Mean =	61.3	25.0	73.5	0.0	0.0	0.0	0.0
3 Pummel (5.25 ME)	15.7 oz ai/a	A		209	94.0	60.0	99.0	0.0	0.0	0.0	0.0
				505	95.0	40.0	99.0	6.0	0.0	0.0	0.0
				701	50.0	30.0	60.0	0.0	0.0	0.0	0.0
				901	89.0	85.0	99.0	0.0	0.0	0.0	0.0
				Mean =	82.0	53.8	89.3	1.5	0.0	0.0	0.0
4 Pummel (5.25 ME)	15.7 oz ai/a	B		201	90.0	86.0	99.0	3.0	4.0	0.0	0.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B		509	97.0	84.0	99.0	7.0	7.0	0.0	0.0
NIS	0.25 % v/v	B		601	97.0	90.0	99.0	0.0	4.0	0.0	0.0
				1012	99.0	99.0	99.0	3.0	5.0	4.0	0.0
				Mean =	95.8	89.8	99.0	3.3	5.0	1.0	0.0
5 Pummel (5.25 ME)	21 oz ai/a	A		301	99.0	20.0	99.0	0.0	0.0	0.0	0.0
				501	94.0	80.0	99.0	0.0	0.0	0.0	0.0
				605	99.0	20.0	99.0	3.0	0.0	0.0	0.0
				1001	99.0	80.0	99.0	0.0	0.0	0.0	0.0
				Mean =	97.8	50.0	99.0	0.8	0.0	0.0	0.0
6 Pummel (5.25 ME)	21 oz ai/a	B		305	99.0	60.0	99.0	0.0	4.0	2.0	0.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B		412	99.0	91.0	99.0	0.0	4.0	0.0	0.0
NIS	0.25 % v/v	B		709	99.0	82.0	99.0	5.0	5.0	0.0	0.0
				812	99.0	86.0	99.0	5.0	5.0	0.0	0.0
				Mean =	99.0	79.8	99.0	2.5	4.5	0.5	0.0

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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	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	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014				
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU	PHYNEC	PHYLMA	PHYCHL				
Rating Unit	%	%	%	%	%	%	%				
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT				
Number of Subsamples	1	1	1	1	1	1	1				
Crop Stage Majority	V6	V6	V6	V6	V6	V6	V6				
Pest Stage Majority	15"	24"	6"								
Pest Density, Unit	5 FT2	2 YD2	2 FT2								
Days After First/Last Applic.	36 7	36 7	36 7	36 7	36 7	36 7	36 7				
Trt Treatment	Rate	Appl									
No. Name	Rate Unit	Code Plot	13	14	15	16	17	18	19		
7 Pummel (5.25 ME)	21 oz ai/a	A 205	99.0	20.0	99.0	0.0	6.0	7.0	5.0		
Glory (75 DG)	3 oz ai/a	A 512	99.0	30.5*	99.0	3.0	0.0	0.0	0.0		
		609	99.0	0.0	99.0	0.0	0.0	0.0	0.0		
		905	99.0	60.0	99.0	0.0	0.0	0.0	0.0		
		Mean =	99.0	27.6	99.0	0.8	1.5	1.8	1.3		
8 Pummel (5.25 ME)	21 oz ai/a	A 112	95.0	99.0	99.0	0.0	0.0	0.0	0.0		
Rumble (1.88 L)	3.76 oz ai/a	A 312	95.0	97.0	99.0	0.0	0.0	0.0	0.0		
		612	99.0	99.0	99.0	0.0	0.0	0.0	0.0		
		1009	95.0	50.0	99.0	0.0	0.0	0.0	0.0		
		Mean =	96.0	86.3	99.0	0.0	0.0	0.0	0.0		
9 Pummel (5.25 ME)	21 oz ai/a	B 109	70.0	84.0	80.0	3.0	5.0	7.0	4.0		
Rumble (1.88 L)	3.76 oz ai/a	B 401	83.0	86.0	82.0	0.0	7.0	9.0	3.0		
NIS	0.25 % v/v	B 801	65.0	99.0	70.0	0.0	7.0	8.0	0.0		
		1005	20.0	84.0	70.0	5.0	5.0	7.0	5.0		
		Mean =	59.5	88.3	75.5	2.0	6.0	7.8	3.0		
10 MANA 25337 (55 WG)	1.76 oz ai/a	A 212	93.0	99.0	99.0	0.0	0.0	0.0	0.0		
		405	93.0	80.0	99.0	0.0	0.0	0.0	0.0		
		805	90.0	70.0	99.0	0.0	0.0	0.0	0.0		
		809	93.0	87.6*	99.0	0.0	0.0	0.0	0.0		
		Mean =	92.3	84.1	99.0	0.0	0.0	0.0	0.0		
11 MANA 25337 (55 WG)	2.34 oz ai/a	A 110	92.0	50.0	70.0	0.0	0.0	0.0	0.0		
		504	97.0	97.0	99.0	0.0	0.0	0.0	0.0		
		702	99.0	40.0	99.0	3.0	0.0	0.0	0.0		
		910	90.0	60.0	99.0	0.0	0.0	0.0	0.0		
		Mean =	94.5	61.8	91.8	0.8	0.0	0.0	0.0		
12 Torment (2.5 SL)	5 oz ai/a	A 210	95.0	20.0	99.0	3.0	0.0	0.0	0.0		
		410	94.0	90.0	99.0	0.0	0.0	0.0	0.0		
		607	90.0	70.0	85.0	0.0	0.0	0.0	0.0		
		1004	50.0	30.0	99.0	0.0	0.0	0.0	0.0		
		Mean =	82.3	52.5	95.5	0.8	0.0	0.0	0.0		
13 Torment (2.5 SL)	5 oz ai/a	B 302	99.0	80.0	99.0	0.0	3.0	4.0	5.0		
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 404	99.0	99.0	99.0	1.0	5.0	6.0	3.0		
NIS	0.25 % v/v	B 707	94.0	83.0	99.0	8.0	5.0	6.0	8.0		
		1010	87.0	70.0	99.0	3.0	3.0	5.0	5.0		
		Mean =	94.8	83.0	99.0	3.0	4.0	5.3	5.3		

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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	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	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014			
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU	PHYNEC	PHYLMA	PHYCHL			
Rating Unit	%	%	%	%	%	%	%			
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT			
Number of Subsamples	1	1	1	1	1	1	1			
Crop Stage Majority	V6	V6	V6	V6	V6	V6	V6			
Pest Stage Majority	15"	24"	6"							
Pest Density, Unit	5 FT2	2 YD2	2 FT2							
Days After First/Last Applic.	36 7	36 7	36 7	36 7	36 7	36 7	36 7			
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code Plot	13	14	15	16	17	18	19	
14 Parallel (7.8 EC)	19.5 oz ai/a	A 304	99.0	87.0	99.0	5.0	6.0	10.0	10.0	
Glory (75 DG)	4.5 oz ai/a	A 310	99.0	89.0	99.0	4.0	5.0	5.0	7.0	
Torment (2.5 SL)	5 oz ai/a	B 802	99.0	80.0	99.0	5.0	5.0	7.0	8.0	
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 810	99.0	88.0	99.0	3.0	7.0	5.0	7.0	
NIS	0.25 % v/v	B								
		Mean =	99.0	86.0	99.0	4.3	5.8	6.8	8.0	
15 Rumble (1.88 L)	3.76 oz ai/a	B 204	95.0	95.0	99.0	7.0	0.0	0.0	0.0	
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 402	99.0	92.0	99.0	2.0	10.0	6.0	4.0	
NIS	0.25 % v/v	B 602	99.0	94.0	99.0	8.0	7.0	6.0	0.0	
		1007	90.0	86.0	99.0	5.0	7.0	10.0	8.0	
		Mean =	95.8	91.8	99.0	5.5	6.0	5.5	3.0	
16 Warrant (3 CS)	18 oz ai/a	B 207	96.0	92.0	90.0	0.0	0.0	0.0	0.0	
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 502	97.0	75.0	99.0	0.0	5.0	0.0	0.0	
NIS	0.25 % v/v	B 710	98.0	86.0	99.0	0.0	0.0	0.0	0.0	
		904	93.0	85.0	99.0	0.0	1.0	0.0	0.0	
		Mean =	96.0	84.5	96.8	0.0	1.5	0.0	0.0	
17 Cobra	1.5 oz ai/a	B 104	94.0	99.0	99.0	12.0	9.0	5.0	0.0	
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 407	97.0	99.0	99.0	15.0	9.0	5.0	0.0	
NIS	0.25 % v/v	B 804	94.0	93.0	99.0	10.0	15.0	8.0	5.0	
		1002	87.0	95.0	94.0	7.0	10.0	10.0	0.0	
		Mean =	93.0	96.5	97.8	11.0	10.8	7.0	1.3	
18 Authority First (70 WG)	4.5 oz ai/a	A 102	90.0	80.0	99.0	0.0	0.0	0.0	0.0	
		307	80.0	90.0	99.0	0.0	0.0	0.0	0.0	
		610	87.0	50.0	99.0	0.0	0.0	0.0	0.0	
		907	75.0	99.0	99.0	3.0	0.0	0.0	0.0	
		Mean =	83.0	79.8	99.0	0.8	0.0	0.0	0.0	
19 Authority Assist (4 SC)	2.5 oz ai/a	A 107	85.0	0.0	40.0	0.0	0.0	0.0	0.0	
		507	50.0	0.0	99.0	3.0	0.0	0.0	0.0	
		704	90.0	0.0	99.0	0.0	0.0	0.0	0.0	
		902	40.0	20.0	99.0	0.0	0.0	0.0	0.0	
		Mean =	66.3	5.0	84.3	0.8	0.0	0.0	0.0	
20 Authority MTZ (45 WG)	5.4 oz ai/a	A 202	94.0	0.0	99.0	0.0	0.0	0.0	0.0	
		510	87.0	0.0	99.0	0.0	0.0	0.0	0.0	
		604	90.0	0.0	99.0	0.0	0.0	0.0	0.0	
		807	60.0	0.0	99.0	0.0	0.0	0.0	0.0	
		Mean =	82.8	0.0	99.0	0.0	0.0	0.0	0.0	

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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	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	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU	PHYNEC	PHYLMA	PHYCHL
Rating Unit	%	%	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority	V6	V6	V6	V6	V6	V6	V6
Pest Stage Majority	15"	24"	6"				
Pest Density, Unit	5 FT2	2 YD2	2 FT2				
Days After First/Last Applic.	36 7	36 7	36 7	36 7	36 7	36 7	36 7
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	13	14	15	16	17
28 MANA 25337 (55 WG)	2.34 oz ai/a A	206	99.0	84.0	99.0	0.0	0.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B	408	99.0	90.0	99.0	0.0	0.0
NIS	0.25 % v/v B	711	99.0	98.0	99.0	5.0	0.0
		1006	99.0	99.0	99.0	0.0	0.0
		Mean =	99.0	92.8	99.0	1.3	0.0
29 Authority First (70 WG)	4.5 oz ai/a A	111	99.0	94.0	99.0	0.0	5.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B	411	99.0	99.0	99.0	3.0	7.0
NIS	0.25 % v/v B	803	87.0	70.0	99.0	0.0	7.0
		808	99.0	77.0	99.0	5.0	8.0
		Mean =	96.0	85.0	99.0	2.0	6.8
30 Matador (4.7 EC)	24.7 oz ai/a A	208	99.0	90.0	99.0	0.0	0.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B	511	99.0	99.0	99.0	3.0	0.0
NIS	0.25 % v/v B	603	99.0	95.0	99.0	0.0	0.0
		1003	99.0	72.0	99.0	3.0	0.0
		Mean =	99.0	89.0	99.0	1.5	0.0

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Pest Type		W Weed	W Weed	W Weed	W Weed						
Pest Code		SETFA	AMBTR	AMARE	CHEAL						
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Chenopodium al>						
Pest Name		Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsqu>						
Crop Code						GLXMA	GLXMA				
BBCH Scale						BSOY	BSOY				
Crop Scientific Name						Glycine max	Glycine max				
Crop Name						Soybean	Soybean				
Rating Date		Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014				
Rating Type		CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU	PHYLMA				
Rating Unit		%	%	%	%	%	%				
Sample Size, Unit		1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT				
Number of Subsamples		1	1	1	1	1	1				
Crop Stage Majority		R1	R1	R1	R1	R1	R1				
Pest Stage Majority		27"	40"	24"	23"						
Pest Density, Unit		10 FT2	4 YD2	2 YD2	3 YD2						
Days After First/Last Applic.		44 15	44 15	44 15	44 15	44 15	44 15				
Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	20	21	22	23	24	25
1	Untreated Check				101	0.0	0.0	0.0	0.0	0.0	0.0
					309	0.0	0.0	0.0	0.0	0.0	0.0
					705	0.0	0.0	0.0	0.0	0.0	0.0
					909	0.0	0.0	0.0	0.0	0.0	0.0
					Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2	Prefix (5.29 EC)	21.2 oz ai/a	A		105	85.0	50.0	99.0	80.0	0.0	0.0
					409	50.0	40.0	99.0	99.0	0.0	0.0
					712	87.0	85.0	75.0	50.0	0.0	0.0
					912	70.0	70.0	40.0	60.0	0.0	0.0
					Mean =	73.0	61.3	78.3	72.3	0.0	0.0
3	Pummel (5.25 ME)	15.7 oz ai/a	A		209	94.0	83.0	70.0	99.0	3.0	0.0
					505	97.0	80.0	99.0	99.0	0.0	0.0
					701	87.0	55.0	99.0	99.0	0.0	0.0
					901	92.0	84.0	99.0	99.0	0.0	0.0
					Mean =	92.5	75.5	91.8	99.0	0.8	0.0
4	Pummel (5.25 ME)	15.7 oz ai/a	B		201	99.0	90.0	99.0	99.0	0.0	0.0
	Roundup PowerMax 4.5 SL	12.4 oz ae/a	B		509	99.0	84.0	99.0	99.0	5.0	0.0
	NIS	0.25 % v/v	B		601	99.0	90.0	99.0	99.0	0.0	0.0
					1012	99.0	99.0	99.0	99.0	5.0	0.0
					Mean =	99.0	90.8	99.0	99.0	2.5	0.0
5	Pummel (5.25 ME)	21 oz ai/a	A		301	98.0	60.0	99.0	99.0	0.0	0.0
					501	95.0	88.0	99.0	99.0	0.0	0.0
					605	99.0	50.0	99.0	99.0	2.0	0.0
					1001	94.0	80.0	99.0	60.0	0.0	0.0
					Mean =	96.5	69.5	99.0	89.3	0.5	0.0
6	Pummel (5.25 ME)	21 oz ai/a	B		305	99.0	65.0	99.0	99.0	0.0	0.0
	Roundup PowerMax 4.5 SL	12.4 oz ae/a	B		412	99.0	89.0	97.0	99.0	3.0	0.0
	NIS	0.25 % v/v	B		709	99.0	84.0	99.0	99.0	4.0	0.0
					812	99.0	90.0	99.0	99.0	2.0	0.0
					Mean =	99.0	82.0	98.5	99.0	2.3	0.0

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Pest Type	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBTR	AMARE	CHEAL		
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Chenopodium al>		
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsqu>		
Crop Code					GLXMA	GLXMA
BBCH Scale					BSOY	BSOY
Crop Scientific Name					Glycine max	Glycine max
Crop Name					Soybean	Soybean
Rating Date	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU	PHYLMA
Rating Unit	%	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	R1	R1	R1	R1	R1	R1
Pest Stage Majority	27"	40"	24"	23"		
Pest Density, Unit	10 FT2	4 YD2	2 YD2	3 YD2		
Days After First/Last Applic.	44 15	44 15	44 15	44 15	44 15	44 15
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	20	21	22	23
7 Pummel (5.25 ME)	21 oz ai/a A	205	99.0	40.0	99.0	99.0
Glory (75 DG)	3 oz ai/a A	512	99.0	90.0	99.0	99.0
		609	95.0	20.0	99.0	99.0
		905	95.0	78.0	99.0	99.0
		Mean =	97.0	57.0	99.0	99.0
8 Pummel (5.25 ME)	21 oz ai/a A	112	94.0	99.0	99.0	99.0
Rumble (1.88 L)	3.76 oz ai/a A	312	95.0	99.0	99.0	99.0
		612	99.0	99.0	99.0	99.0
		1009	97.0	75.0	99.0	99.0
		Mean =	96.3	93.0	99.0	99.0
9 Pummel (5.25 ME)	21 oz ai/a B	109	86.0	65.0	99.0	40.0
Rumble (1.88 L)	3.76 oz ai/a B	401	90.0	86.0	99.0	75.0
NIS	0.25 % v/v B	801	80.0	99.0	99.0	85.0
		1005	65.0	80.0	99.0	85.0
		Mean =	80.3	82.5	99.0	71.3
10 MANA 25337 (55 WG)	1.76 oz ai/a A	212	93.0	99.0	99.0	99.0
		405	93.0	85.0	99.0	99.0
		805	93.0	67.0	99.0	99.0
		809	95.0	50.0	99.0	99.0
		Mean =	93.5	75.3	99.0	99.0
11 MANA 25337 (55 WG)	2.34 oz ai/a A	110	94.0	90.0	99.0	85.0
		504	97.0	96.0	99.0	99.0
		702	95.0	60.0	99.0	99.0
		910	93.0	80.0	99.0	99.0
		Mean =	94.8	81.5	99.0	95.5
12 Torment (2.5 SL)	5 oz ai/a A	210	93.0	68.0	99.0	99.0
		410	94.0	88.0	99.0	99.0
		607	94.0	82.0	99.0	87.0
		1004	85.0	40.0	99.0	99.0
		Mean =	91.5	69.5	99.0	96.0
13 Torment (2.5 SL)	5 oz ai/a B	302	99.0	86.0	99.0	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B	404	99.0	99.0	99.0	99.0
NIS	0.25 % v/v B	707	99.0	87.0	99.0	99.0
		1010	99.0	70.0	99.0	99.0
		Mean =	99.0	85.5	99.0	99.0

Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	AMARE	CHEAL			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Chenopodium al>			
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsqu>			
Crop Code					GLXMA	GLXMA	
BBCH Scale					BSOY	BSOY	
Crop Scientific Name					Glycine max	Glycine max	
Crop Name					Soybean	Soybean	
Rating Date	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU	PHYLMA	
Rating Unit	%	%	%	%	%	%	
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	
Number of Subsamples	1	1	1	1	1	1	
Crop Stage Majority	R1	R1	R1	R1	R1	R1	
Pest Stage Majority	27"	40"	24"	23"			
Pest Density, Unit	10 FT2	4 YD2	2 YD2	3 YD2			
Days After First/Last Applic.	44 15	44 15	44 15	44 15	44 15	44 15	
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	20	21	22	23	24
14 Parallel (7.8 EC)	19.5 oz ai/a A	304	99.0	88.0	99.0	99.0	3.0
Glory (75 DG)	4.5 oz ai/a A	310	99.0	84.0	99.0	99.0	0.0
Torment (2.5 SL)	5 oz ai/a B	802	99.0	90.0	99.0	99.0	4.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B	810	99.0	89.0	99.0	99.0	2.0
NIS	0.25 % v/v B						
		Mean =	99.0	87.8	99.0	99.0	2.3
15 Rumble (1.88 L)	3.76 oz ai/a B	204	99.0	95.0	99.0	99.0	5.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B	402	98.0	94.0	99.0	99.0	0.0
NIS	0.25 % v/v B	602	99.0	89.0	99.0	99.0	3.0
		1007	99.0	95.0	99.0	99.0	5.0
		Mean =	98.8	93.3	99.0	99.0	3.3
16 Warrant (3 CS)	18 oz ai/a B	207	99.0	95.0	99.0	94.0	3.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B	502	99.0	86.0	99.0	99.0	0.0
NIS	0.25 % v/v B	710	99.0	88.0	99.0	99.0	3.0
		904	99.0	90.0	99.0	99.0	0.0
		Mean =	99.0	89.8	99.0	97.8	1.5
17 Cobra	1.5 oz ai/a B	104	97.0	99.0	99.0	99.0	10.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B	407	99.0	99.0	99.0	99.0	10.0
NIS	0.25 % v/v B	804	98.0	95.0	99.0	99.0	6.0
		1002	97.0	97.0	99.0	95.0	5.0
		Mean =	97.8	97.5	99.0	98.0	7.8
18 Authority First (70 WG)	4.5 oz ai/a A	102	90.0	84.0	99.0	99.0	0.0
		307	70.0	80.0	99.0	99.0	0.0
		610	88.0	60.0	99.0	99.0	0.0
		907	86.0	92.0	99.0	99.0	0.0
		Mean =	83.5	79.0	99.0	99.0	0.0
19 Authority Assist (4 SC)	2.5 oz ai/a A	107	85.0	0.0	99.0	60.0	0.0
		507	60.0	30.0	99.0	99.0	3.0
		704	93.0	20.0	99.0	99.0	0.0
		902	89.0	75.0	99.0	99.0	2.0
		Mean =	81.8	31.3	99.0	89.3	1.3
20 Authority MTZ (45 WG)	5.4 oz ai/a A	202	94.0	20.0	99.0	99.0	0.0
		510	90.0	45.0	99.0	99.0	0.0
		604	99.0	0.0	99.0	99.0	0.0
		807	80.0	20.0	99.0	99.0	0.0
		Mean =	90.8	21.3	99.0	99.0	0.0

Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed						
Pest Code	SETFA	AMBTR	AMARE	CHEAL						
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Chenopodium al>						
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsqu>						
Crop Code					GLXMA	GLXMA				
BBCH Scale					BSOY	BSOY				
Crop Scientific Name					Glycine max	Glycine max				
Crop Name					Soybean	Soybean				
Rating Date	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU	PHYLMA				
Rating Unit	%	%	%	%	%	%				
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT				
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority	R1	R1	R1	R1	R1	R1				
Pest Stage Majority	27"	40"	24"	23"						
Pest Density, Unit	10 FT2	4 YD2	2 YD2	3 YD2						
Days After First/Last Applic.	44 15	44 15	44 15	44 15	44 15	44 15				
Trt Treatment	Rate	Appl								
No. Name	Rate	Unit	Code	Plot	20	21	22	23	24	25
21 Authority XL (70 WG)	2.8 oz ai/a	A		211	90.0	70.0	99.0	99.0	0.0	0.0
				406	84.0	97.0	99.0	99.0	0.0	0.0
				703	94.0	83.0	99.0	89.0	0.0	0.0
				908	70.0	50.0	99.0	99.0	5.0	0.0
				Mean =	84.5	75.0	99.0	96.5	1.3	0.0
22 Authority Elite (7 SC)	21.9 oz ai/a	A		103	95.0	60.0	99.0	70.0	3.0	0.0
				506	97.0	70.0	99.0	99.0	3.0	0.0
				611	97.0	40.0	99.0	99.0	3.0	0.0
				906	95.0	75.0	99.0	99.0	0.0	0.0
				Mean =	96.0	61.3	99.0	91.8	2.3	0.0
23 Matador (4.7 EC)	24.7 oz ai/a	A		306	96.0	50.0	99.0	99.0	0.0	0.0
				508	94.0	60.0	99.0	99.0	3.0	0.0
				708	92.0	40.0	99.0	99.0	0.0	0.0
				911	96.0	83.0	99.0	99.0	0.0	0.0
				Mean =	94.5	58.3	99.0	99.0	0.8	0.0
24 Valor SX (51 WG)	1.2 oz ai/a	A		106	93.0	30.0	99.0	99.0	0.0	0.0
Classic	0.412 oz ai/a	A		403	96.0	50.0	99.0	99.0	0.0	0.0
				608	92.0	84.0	99.0	99.0	5.0	0.0
				903	90.0	85.0	99.0	99.0	0.0	0.0
				Mean =	92.8	62.3	99.0	99.0	1.3	0.0
25 Fierce XLT	2.5 oz ai/a	A		203	96.0	65.0	99.0	99.0	0.0	0.0
				503	99.0	90.0	99.0	99.0	2.0	0.0
				706	99.0	85.0	99.0	99.0	0.0	0.0
				811	99.0	87.0	99.0	99.0	0.0	0.0
				Mean =	98.3	81.8	99.0	99.0	0.5	0.0
26 Warrant (3 CS)	18 oz ai/a	A		108	90.0	0.0	99.0	70.0	0.0	0.0
				311	95.0	60.0	99.0	99.0	0.0	0.0
				606	96.0	45.0	99.0	90.0	5.0	0.0
				1011	90.0	50.0	99.0	40.0	0.0	0.0
				Mean =	92.8	38.8	99.0	74.8	1.3	0.0
27 Fierce XLT	2.5 oz ai/a	A		303	99.0	99.0	99.0	99.0	5.0	9.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B		308	99.0	84.0	99.0	99.0	0.0	4.0
NIS	0.25 % v/v	B		806	99.0	94.0	99.0	99.0	3.0	5.0
				1008	99.0	95.0	99.0	99.0	2.0	3.0
				Mean =	99.0	93.0	99.0	99.0	2.5	5.3

Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	AMBTR	AMARE	CHEAL				
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Chenopodium al>				
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsqu>				
Crop Code					GLXMA	GLXMA		
BBCH Scale					BSOY	BSOY		
Crop Scientific Name					Glycine max	Glycine max		
Crop Name					Soybean	Soybean		
Rating Date	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU	PHYLMA		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	R1	R1	R1	R1	R1	R1		
Pest Stage Majority	27"	40"	24"	23"				
Pest Density, Unit	10 FT2	4 YD2	2 YD2	3 YD2				
Days After First/Last Applic.	44 15	44 15	44 15	44 15	44 15	44 15		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	20	21	22	23	24	25
28 MANA 25337 (55 WG)	2.34 oz ai/a	A 206	99.0	83.0	99.0	99.0	0.0	0.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 408	99.0	91.0	99.0	99.0	0.0	0.0
NIS	0.25 % v/v	B 711	99.0	98.0	99.0	99.0	3.0	0.0
		1006	99.0	98.0	99.0	99.0	2.0	0.0
		Mean =	99.0	92.5	99.0	99.0	1.3	0.0
29 Authority First (70 WG)	4.5 oz ai/a	A 111	99.0	99.0	99.0	99.0	0.0	0.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 411	99.0	99.0	99.0	99.0	5.0	0.0
NIS	0.25 % v/v	B 803	99.0	85.0	99.0	99.0	0.0	3.0
		808	99.0	83.0	99.0	99.0	3.0	0.0
		Mean =	99.0	91.5	99.0	99.0	2.0	0.8
30 Matador (4.7 EC)	24.7 oz ai/a	A 208	99.0	93.0	99.0	99.0	0.0	0.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 511	99.0	97.0	99.0	99.0	2.0	0.0
NIS	0.25 % v/v	B 603	99.0	99.0	99.0	99.0	0.0	0.0
		1003	99.0	87.0	99.0	99.0	3.0	0.0
		Mean =	99.0	94.0	99.0	99.0	1.3	0.0

Purdue University

Pest Type					W Weed SETFA Setaria faberi Giant foxtail	W Weed AMBTR Ambrosia trifi> Giant ragweed	W Weed AMARE Amaranthus ret> Redroot pigweed	
Pest Code								
Pest Scientific Name								
Pest Name								
Crop Code	GLXMA	GLXMA	GLXMA					
BBCH Scale	BSOY	BSOY	BSOY					
Crop Scientific Name	Glycine max	Glycine max	Glycine max					
Crop Name	Soybean	Soybean	Soybean					
Rating Date	Jul-10-2014	Jul-16-2014	Jul-16-2014	Jul-24-2014	Jul-24-2014	Jul-24-2014		
Rating Type	PHYNEC	PHYSTU	PHYLMA	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	
Number of Subsamples	1	1	1	1	1	1	1	
Crop Stage Majority	R1	R1	R1					
Pest Stage Majority				46"	60"	36"		
Pest Density, Unit				10 FT2	4 YD2	1 YD2		
Days After First/Last Applic.	44 15	50 21	50 21	58 29	58 29	58 29		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit Code Plot		26	27	28	29	30	31
1 Untreated Check		101	0.0	0.0	0.0	0.0	0.0	0.0
		309	0.0	0.0	0.0	0.0	0.0	0.0
		705	0.0	0.0	0.0	0.0	0.0	0.0
		909	0.0	0.0	0.0	0.0	0.0	0.0
	Mean =		0.0	0.0	0.0	0.0	0.0	0.0
2 Prefix (5.29 EC)	21.2 oz ai/a A	105	0.0	0.0	0.0	40.0	60.0	99.0
		409	0.0	0.0	0.0	70.0	50.0	99.0
		712	0.0	0.0	0.0	87.0	87.0	60.0
		912	0.0	0.0	0.0	70.0	82.0	60.0
	Mean =		0.0	0.0	0.0	66.8	69.8	79.5
3 Pummel (5.25 ME)	15.7 oz ai/a A	209	0.0	0.0	0.0	94.0	80.0	99.0
		505	0.0	5.0	0.0	99.0	75.0	99.0
		701	0.0	0.0	0.0	70.0	60.0	99.0
		901	0.0	0.0	0.0	90.0	87.0	99.0
	Mean =		0.0	1.3	0.0	88.3	75.5	99.0
4 Pummel (5.25 ME) Roundup PowerMax 4.5 SL NIS	15.7 oz ai/a B	201	0.0	0.0	0.0	99.0	93.0	99.0
	12.4 oz ae/a B	509	0.0	5.0	0.0	99.0	88.0	99.0
	0.25 % v/v B	601	0.0	2.0	0.0	97.0	87.0	99.0
		1012	0.0	3.0	2.0	99.0	99.0	99.0
	Mean =		0.0	2.5	0.5	98.5	91.8	99.0
5 Pummel (5.25 ME)	21 oz ai/a A	301	0.0	0.0	0.0	99.0	65.0	99.0
		501	0.0	0.0	0.0	95.0	89.0	99.0
		605	0.0	0.0	0.0	99.0	50.0	99.0
		1001	0.0	0.0	0.0	90.0	85.0	99.0
	Mean =		0.0	0.0	0.0	95.8	72.3	99.0
6 Pummel (5.25 ME) Roundup PowerMax 4.5 SL NIS	21 oz ai/a B	305	0.0	3.0	0.0	99.0	83.0	99.0
	12.4 oz ae/a B	412	0.0	0.0	0.0	98.0	95.0	99.0
	0.25 % v/v B	709	0.0	2.0	0.0	99.0	85.0	99.0
		812	0.0	0.0	0.0	99.0	90.0	99.0
	Mean =		0.0	1.3	0.0	98.8	88.3	99.0

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Pest Type									W Weed SETFA	W Weed AMBTR	W Weed AMARE
Pest Code									Setaria faberi	Ambrosia trifi>	Amaranthus ret>
Pest Scientific Name									Giant foxtail	Giant ragweed	Redroot pigweed
Pest Name											
Crop Code	GLXMA	GLXMA	GLXMA								
BCH Scale	BSOY	BSOY	BSOY								
Crop Scientific Name	Glycine max	Glycine max	Glycine max								
Crop Name	Soybean	Soybean	Soybean								
Rating Date	Jul-10-2014	Jul-16-2014	Jul-16-2014						Jul-24-2014	Jul-24-2014	Jul-24-2014
Rating Type	PHYNEC	PHYSTU	PHYLMA						CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%						%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT						1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1						1	1	1
Crop Stage Majority	R1	R1	R1								
Pest Stage Majority									46"	60"	36"
Pest Density, Unit									10 FT2	4 YD2	1 YD2
Days After First/Last Applic.	44 15	50 21	50 21						58 29	58 29	58 29
Trt Treatment	Rate	Appl									
No. Name	Rate Unit Code Plot		26	27	28	29	30	31			
7 Pummel (5.25 ME)	21 oz ai/a A 205		0.0	0.0	0.0	99.0	70.0	99.0			
Glory (75 DG)	3 oz ai/a A 512		0.0	0.0	0.0	99.0	99.0	99.0			
	609		0.0	0.0	0.0	99.0	50.0	99.0			
	905		0.0	0.0	0.0	90.0	70.0	99.0			
	Mean =		0.0	0.0	0.0	96.8	72.3	99.0			
8 Pummel (5.25 ME)	21 oz ai/a A 112		0.0	0.0	0.0	99.0	99.0	99.0			
Rumble (1.88 L)	3.76 oz ai/a A 312		0.0	0.0	0.0	95.0	93.0	99.0			
	612		0.0	0.0	0.0	99.0	99.0	99.0			
	1009		0.0	0.0	0.0	99.0	60.0	99.0			
	Mean =		0.0	0.0	0.0	98.0	87.8	99.0			
9 Pummel (5.25 ME)	21 oz ai/a B 109		0.0	0.0	0.0	80.0	83.0	99.0			
Rumble (1.88 L)	3.76 oz ai/a B 401		0.0	0.0	2.0	90.0	90.0	99.0			
NIS	0.25 % v/v B 801		0.0	3.0	2.0	84.0	99.0	99.0			
	1005		0.0	3.0	3.0	75.0	82.0	99.0			
	Mean =		0.0	1.5	1.8	82.3	88.5	99.0			
10 MANA 25337 (55 WG)	1.76 oz ai/a A 212		0.0	0.0	0.0	94.0	99.0	99.0			
	405		0.0	0.0	0.0	93.0	85.0	99.0			
	805		0.0	0.0	0.0	93.0	80.0	99.0			
	809		0.0	0.0	0.0	90.0	88.3*	99.0			
	Mean =		0.0	0.0	0.0	92.5	88.1	99.0			
11 MANA 25337 (55 WG)	2.34 oz ai/a A 110		0.0	0.0	0.0	99.0	86.0	99.0			
	504		0.0	0.0	0.0	95.0	90.0	99.0			
	702		0.0	0.0	0.0	95.0	65.0	99.0			
	910		0.0	0.0	0.0	95.0	82.0	99.0			
	Mean =		0.0	0.0	0.0	96.0	80.8	99.0			
12 Torment (2.5 SL)	5 oz ai/a A 210		0.0	0.0	0.0	95.0	70.0	99.0			
	410		0.0	0.0	0.0	95.0	89.0	99.0			
	607		0.0	3.0	0.0	94.0	84.0	99.0			
	1004		0.0	0.0	0.0	85.0	40.0	99.0			
	Mean =		0.0	0.8	0.0	92.3	70.8	99.0			
13 Torment (2.5 SL)	5 oz ai/a B 302		0.0	0.0	2.0	99.0	92.0	99.0			
Roundup PowerMax 4.5 SL	12.4 oz ae/a B 404		3.0	0.0	0.0	99.0	95.0	99.0			
NIS	0.25 % v/v B 707		0.0	0.0	3.0	99.0	88.0	99.0			
	1010		0.0	0.0	2.0	99.0	83.0	99.0			
	Mean =		0.8	0.0	1.8	99.0	89.5	99.0			

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Pest Type				W Weed	W Weed	W Weed	
Pest Code				SETFA	AMBTR	AMARE	
Pest Scientific Name				Setaria faberi	Ambrosia trifi>	Amaranthus ret>	
Pest Name				Giant foxtail	Giant ragweed	Redroot pigweed	
Crop Code	GLXMA	GLXMA	GLXMA				
BBCH Scale	BSOY	BSOY	BSOY				
Crop Scientific Name	Glycine max	Glycine max	Glycine max				
Crop Name	Soybean	Soybean	Soybean				
Rating Date	Jul-10-2014	Jul-16-2014	Jul-16-2014	Jul-24-2014	Jul-24-2014	Jul-24-2014	
Rating Type	PHYNEC	PHYSTU	PHYLMA	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	%	%	%	
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	
Number of Subsamples	1	1	1	1	1	1	
Crop Stage Majority	R1	R1	R1				
Pest Stage Majority				46"	60"	36"	
Pest Density, Unit				10 FT2	4 YD2	1 YD2	
Days After First/Last Applic.	44 15	50 21	50 21	58 29	58 29	58 29	
Trt Treatment	Rate	Appl					
No. Name	Rate Unit Code Plot						
14 Parallel (7.8 EC)	19.5 oz ai/a A 304	3.0	5.0	2.0	99.0	90.0	99.0
Glory (75 DG)	4.5 oz ai/a A 310	3.0	0.0	0.0	99.0	95.0	99.0
Torment (2.5 SL)	5 oz ai/a B 802	3.0	3.0	0.0	99.0	94.0	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B 810	3.0	2.0	0.0	97.0	94.0	99.0
NIS	0.25 % v/v B						
	Mean =	3.0	2.5	0.5	98.5	93.3	99.0
15 Rumble (1.88 L)	3.76 oz ai/a B 204	5.0	5.0	2.0	99.0	99.0	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B 402	5.0	0.0	2.0	99.0	99.0	99.0
NIS	0.25 % v/v B 602	4.0	5.0	0.0	96.0	99.0	99.0
	1007	3.0	2.0	2.0	99.0	90.0	99.0
	Mean =	4.3	3.0	1.5	98.3	96.8	99.0
16 Warrant (3 CS)	18 oz ai/a B 207	0.0	5.0	0.0	99.0	99.0	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B 502	0.0	0.0	0.0	99.0	93.0	99.0
NIS	0.25 % v/v B 710	0.0	2.0	0.0	99.0	99.0	99.0
	904	0.0	0.0	0.0	99.0	95.0	99.0
	Mean =	0.0	1.8	0.0	99.0	96.5	99.0
17 Cobra	1.5 oz ai/a B 104	4.0	10.0	5.0	98.0	99.0	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B 407	5.0	12.0	6.0	98.0	99.0	99.0
NIS	0.25 % v/v B 804	5.0	6.0	7.0	98.0	98.0	99.0
	1002	5.0	6.0	6.0	96.0	99.0	99.0
	Mean =	4.8	8.5	6.0	97.5	98.8	99.0
18 Authority First (70 WG)	4.5 oz ai/a A 102	0.0	0.0	0.0	94.0	87.0	99.0
	307	0.0	0.0	0.0	85.0	87.0	99.0
	610	0.0	3.0	0.0	86.0	75.0	99.0
	907	0.0	0.0	0.0	80.0	88.0	99.0
	Mean =	0.0	0.8	0.0	86.3	84.3	99.0
19 Authority Assist (4 SC)	2.5 oz ai/a A 107	0.0	0.0	0.0	99.0	40.0	99.0
	507	0.0	2.0	0.0	80.0	60.0	99.0
	704	0.0	0.0	0.0	94.0	50.0	99.0
	902	0.0	0.0	0.0	85.0	80.0	99.0
	Mean =	0.0	0.5	0.0	89.5	57.5	99.0
20 Authority MTZ (45 WG)	5.4 oz ai/a A 202	0.0	0.0	0.0	99.0	40.0	99.0
	510	0.0	0.0	0.0	88.0	60.0	99.0
	604	0.0	0.0	0.0	90.0	30.0	99.0
	807	0.0	0.0	0.0	88.0	20.0	99.0
	Mean =	0.0	0.0	0.0	91.3	37.5	99.0

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Pest Type				W Weed	W Weed	W Weed		
Pest Code				SETFA	AMBTR	AMARE		
Pest Scientific Name				Setaria faberi	Ambrosia trifi>	Amaranthus ret>		
Pest Name				Giant foxtail	Giant ragweed	Redroot pigweed		
Crop Code	GLXMA	GLXMA	GLXMA					
BBCB Scale	BSOY	BSOY	BSOY					
Crop Scientific Name	Glycine max	Glycine max	Glycine max					
Crop Name	Soybean	Soybean	Soybean					
Rating Date	Jul-10-2014	Jul-16-2014	Jul-16-2014	Jul-24-2014	Jul-24-2014	Jul-24-2014		
Rating Type	PHYNEC	PHYSTU	PHYLMA	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	R1	R1	R1					
Pest Stage Majority				46"	60"	36"		
Pest Density, Unit				10 FT2	4 YD2	1 YD2		
Days After First/Last Applic.	44 15	50 21	50 21	58 29	58 29	58 29		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	26	27	28	29	30	31
21 Authority XL (70 WG)	2.8 oz ai/a A	211	0.0	0.0	0.0	90.0	80.0	99.0
		406	0.0	2.0	0.0	90.0	98.0	99.0
		703	0.0	0.0	0.0	99.0	80.0	99.0
		908	0.0	0.0	0.0	70.0	50.0	99.0
		Mean =	0.0	0.5	0.0	87.3	77.0	99.0
22 Authority Elite (7 SC)	21.9 oz ai/a A	103	0.0	0.0	0.0	99.0	75.0	99.0
		506	0.0	5.0	0.0	99.0	80.0	99.0
		611	0.0	2.0	0.0	95.0	50.0	99.0
		906	0.0	0.0	0.0	97.0	75.0	99.0
		Mean =	0.0	1.8	0.0	97.5	70.0	99.0
23 Matador (4.7 EC)	24.7 oz ai/a A	306	0.0	0.0	0.0	95.0	60.0	85.0
		508	0.0	0.0	0.0	99.0	60.0	99.0
		708	0.0	0.0	0.0	90.0	40.0	99.0
		911	0.0	0.0	0.0	94.0	85.0	99.0
		Mean =	0.0	0.0	0.0	94.5	61.3	95.5
24 Valor SX (51 WG) Classic	1.2 oz ai/a A 0.412 oz ai/a A	106	0.0	0.0	0.0	90.0	20.0	99.0
		403	0.0	0.0	0.0	90.0	70.0	99.0
		608	0.0	7.0	0.0	90.0	80.0	99.0
		903	0.0	2.0	0.0	87.0	85.0	99.0
		Mean =	0.0	2.3	0.0	89.3	63.8	99.0
25 Fierce XLT	2.5 oz ai/a A	203	0.0	0.0	0.0	94.0	75.0	99.0
		503	0.0	5.0	0.0	99.0	89.0	99.0
		706	0.0	0.0	0.0	99.0	84.0	99.0
		811	0.0	0.0	0.0	99.0	88.0	99.0
		Mean =	0.0	1.3	0.0	97.8	84.0	99.0
26 Warrant (3 CS)	18 oz ai/a A	108	0.0	0.0	0.0	99.0	30.0	99.0
		311	0.0	0.0	0.0	93.0	80.0	99.0
		606	0.0	0.0	0.0	95.0	40.0	99.0
		1011	0.0	0.0	0.0	92.0	72.0	99.0
		Mean =	0.0	0.0	0.0	94.8	55.5	99.0
27 Fierce XLT Roundup PowerMax 4.5 SL NIS	2.5 oz ai/a A 12.4 oz ae/a B 0.25 % v/v B	303	5.0	7.0	5.0	99.0	99.0	99.0
		308	3.0	2.0	3.0	99.0	89.0	99.0
		806	0.0	4.0	3.0	99.0	92.0	99.0
		1008	2.0	2.0	0.0	99.0	90.0	99.0
		Mean =	2.5	3.8	2.8	99.0	92.5	99.0

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Pest Type				W Weed	W Weed	W Weed
Pest Code				SETFA	AMBTR	AMARE
Pest Scientific Name				Setaria faberi	Ambrosia trifi>	Amaranthus ret>
Pest Name				Giant foxtail	Giant ragweed	Redroot pigweed
Crop Code	GLXMA	GLXMA	GLXMA			
BBCH Scale	BSOY	BSOY	BSOY			
Crop Scientific Name	Glycine max	Glycine max	Glycine max			
Crop Name	Soybean	Soybean	Soybean			
Rating Date	Jul-10-2014	Jul-16-2014	Jul-16-2014	Jul-24-2014	Jul-24-2014	Jul-24-2014
Rating Type	PHYNEC	PHYSTU	PHYLMA	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	R1	R1	R1			
Pest Stage Majority				46"	60"	36"
Pest Density, Unit				10 FT2	4 YD2	1 YD2
Days After First/Last Applic.	44 15	50 21	50 21	58 29	58 29	58 29
Trt Treatment	Rate	Appl				
No. Name	Rate Unit Code Plot					
28 MANA 25337 (55 WG)	2.34 oz ai/a A 206		0.0	0.0	0.0	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B 408		0.0	0.0	0.0	99.0
NIS	0.25 % v/v B 711		0.0	0.0	0.0	99.0
	1006		0.0	2.0	0.0	98.0
	Mean =		0.0	0.5	0.0	98.8
29 Authority First (70 WG)	4.5 oz ai/a A 111		0.0	0.0	0.0	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B 411		0.0	3.0	0.0	99.0
NIS	0.25 % v/v B 803		0.0	2.0	0.0	95.0
	808		0.0	2.0	0.0	97.0
	Mean =		0.0	1.8	0.0	97.5
30 Matador (4.7 EC)	24.7 oz ai/a A 208		0.0	0.0	0.0	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B 511		0.0	3.0	0.0	99.0
NIS	0.25 % v/v B 603		0.0	3.0	0.0	99.0
	1003		0.0	0.0	0.0	99.0
	Mean =		0.0	1.5	0.0	99.0

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				W Weed	W Weed		
				CHEAL	AMBTR		
				Chenopodium al>	Ambrosia trifi>		
				Common lambsqu>	Giant ragweed		
						GLXMA	
						BSOY	
						Glycine max	
						Soybean	
				Jul-24-2014	Aug-25-2014	Oct-23-2014	
				CONTRO	CONTRO	YIELD	
				%	%	bu/ac	
				1 PLOT	1 PLOT		
				1	1		1
				35"			
				1 YD2	4 YD2		
				58 29	90 61	149 120	
Trt	Treatment	Rate	Appl				
No. Name		Rate Unit	Code Plot	32	33	34	
1	Untreated Check		101	0.0	0.0	43.90	
			309	0.0	0.0	42.20	
			705	0.0	0.0	60.60	
			909	0.0	0.0	44.90	
			Mean =	0.0	0.0	47.90	
2	Prefix (5.29 EC)	21.2 oz ai/a	A 105	50.0	99.0	41.70	
			409	99.0	60.0	55.40	
			712	65.0	99.0	64.30	
			912	30.0	95.0	68.60	
			Mean =	61.0	88.3	57.50	
3	Pummel (5.25 ME)	15.7 oz ai/a	A 209	99.0	87.0	62.50	
			505	99.0	84.0	61.80	
			701	99.0	90.0	72.40	
			901	99.0	95.0	80.30	
			Mean =	99.0	89.0	69.25	
4	Pummel (5.25 ME)	15.7 oz ai/a	B 201	99.0	94.0	78.20	
	Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 509	99.0	99.0	57.20	
	NIS	0.25 % v/v	B 601	99.0	99.0	78.30	
			1012	99.0	99.0	70.60	
			Mean =	99.0	97.8	71.08	
5	Pummel (5.25 ME)	21 oz ai/a	A 301	99.0	87.0	72.20	
			501	99.0	99.0	68.20	
			605	99.0	80.0	61.40	
			1001	75.0	93.0	85.50	
			Mean =	93.0	89.8	71.83	
6	Pummel (5.25 ME)	21 oz ai/a	B 305	99.0	93.0	66.60	
	Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 412	99.0	99.0	71.30	
	NIS	0.25 % v/v	B 709	99.0	99.0	57.60	
			812	99.0	99.0	64.90	
			Mean =	99.0	97.5	65.10	

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Pest Type	W Weed	W Weed	
Pest Code	CHEAL	AMBTR	
Pest Scientific Name	Chenopodium al>	Ambrosia trifi>	
Pest Name	Common lambsqu>	Giant ragweed	
Crop Code			GLXMA
BBCH Scale			BSOY
Crop Scientific Name			Glycine max
Crop Name			Soybean
Rating Date	Jul-24-2014	Aug-25-2014	Oct-23-2014
Rating Type	CONTRO	CONTRO	YIELD
Rating Unit	%	%	bu/ac
Sample Size, Unit	1 PLOT	1 PLOT	
Number of Subsamples	1	1	1
Crop Stage Majority			
Pest Stage Majority	35"		
Pest Density, Unit	1 YD2	4 YD2	
Days After First/Last Applic.	58 29	90 61	149 120
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code Plot	
		32	33
			34
7 Pummel (5.25 ME)	21 oz ai/a A	205	99.0
Glory (75 DG)	3 oz ai/a A	512	99.0
		609	99.0
		905	99.0
		Mean =	99.0
8 Pummel (5.25 ME)	21 oz ai/a A	112	99.0
Rumble (1.88 L)	3.76 oz ai/a A	312	99.0
		612	99.0
		1009	99.0
		Mean =	99.0
9 Pummel (5.25 ME)	21 oz ai/a B	109	20.0
Rumble (1.88 L)	3.76 oz ai/a B	401	60.0
NIS	0.25 % v/v B	801	70.0
		1005	70.0
		Mean =	55.0
10 MANA 25337 (55 WG)	1.76 oz ai/a A	212	99.0
		405	99.0
		805	99.0
		809	99.0
		Mean =	99.0
11 MANA 25337 (55 WG)	2.34 oz ai/a A	110	99.0
		504	99.0
		702	99.0
		910	99.0
		Mean =	99.0
12 Torment (2.5 SL)	5 oz ai/a A	210	99.0
		410	99.0
		607	80.0
		1004	99.0
		Mean =	94.3
13 Torment (2.5 SL)	5 oz ai/a B	302	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a B	404	99.0
NIS	0.25 % v/v B	707	99.0
		1010	99.0
		Mean =	99.0
			82.0
			87.0
			86.0
			88.5
			83.30
			69.70
			59.30
			78.60
			72.73
			62.80
			77.20
			81.60
			76.10
			74.43
			79.50
			71.80
			78.40
			84.20*
			78.48
			62.00
			66.00
			64.20
			70.20
			65.60
			62.30
			74.10
			61.40
			72.10
			67.48
			71.40
			76.00
			70.30
			67.90
			71.40

Purdue University

Pest Type	W Weed	W Weed		
Pest Code	CHEAL	AMBTR		
Pest Scientific Name	Chenopodium al>	Ambrosia trifi>		
Pest Name	Common lambsqu>	Giant ragweed		
Crop Code			GLXMA	
BBCH Scale			BSOY	
Crop Scientific Name			Glycine max	
Crop Name			Soybean	
Rating Date	Jul-24-2014	Aug-25-2014	Oct-23-2014	
Rating Type	CONTRO	CONTRO	YIELD	
Rating Unit	%	%	bu/ac	
Sample Size, Unit	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	
Crop Stage Majority				
Pest Stage Majority	35"			
Pest Density, Unit	1 YD2	4 YD2		
Days After First/Last Applic.	58 29	90 61	149 120	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	32	33
14 Parallel (7.8 EC)	19.5 oz ai/a	A 304	99.0	99.0
Glory (75 DG)	4.5 oz ai/a	A 310	99.0	99.0
Torment (2.5 SL)	5 oz ai/a	B 802	99.0	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 810	99.0	99.0
NIS	0.25 % v/v	B		
		Mean =	99.0	99.0
15 Rumble (1.88 L)	3.76 oz ai/a	B 204	99.0	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 402	99.0	99.0
NIS	0.25 % v/v	B 602	99.0	99.0
		1007	90.0	99.0
		Mean =	96.8	99.0
16 Warrant (3 CS)	18 oz ai/a	B 207	99.0	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 502	99.0	99.0
NIS	0.25 % v/v	B 710	99.0	99.0
		904	99.0	99.0
		Mean =	99.0	99.0
17 Cobra	1.5 oz ai/a	B 104	99.0	95.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 407	95.0	99.0
NIS	0.25 % v/v	B 804	99.0	91.0
		1002	90.0	99.0
		Mean =	95.8	96.0
18 Authority First (70 WG)	4.5 oz ai/a	A 102	99.0	90.0
		307	99.0	90.0
		610	99.0	95.0
		907	99.0	99.0
		Mean =	99.0	93.5
19 Authority Assist (4 SC)	2.5 oz ai/a	A 107	99.0	70.0
		507	99.0	92.0
		704	99.0	80.0
		902	99.0	90.0
		Mean =	99.0	83.0
20 Authority MTZ (45 WG)	5.4 oz ai/a	A 202	99.0	84.0
		510	99.0	82.0
		604	99.0	85.0
		807	99.0	83.0
		Mean =	99.0	83.5

Purdue University

Pest Type	W Weed	W Weed	
Pest Code	CHEAL	AMBTR	
Pest Scientific Name	Chenopodium al>	Ambrosia trifi>	
Pest Name	Common lambsqu>	Giant ragweed	
Crop Code			GLXMA
BBCB Scale			BSOY
Crop Scientific Name			Glycine max
Crop Name			Soybean
Rating Date	Jul-24-2014	Aug-25-2014	Oct-23-2014
Rating Type	CONTRO	CONTRO	YIELD
Rating Unit	%	%	bu/ac
Sample Size, Unit	1 PLOT	1 PLOT	
Number of Subsamples	1	1	1
Crop Stage Majority			
Pest Stage Majority	35"		
Pest Density, Unit	1 YD2	4 YD2	
Days After First/Last Applic.	58 29	90 61	149 120
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code Plot	
21 Authority XL (70 WG)	2.8 oz ai/a	A 211	99.0
		406	99.0
		703	99.0
		908	99.0
		Mean =	99.0
22 Authority Elite (7 SC)	21.9 oz ai/a	A 103	80.0
		506	99.0
		611	99.0
		906	99.0
		Mean =	94.3
23 Matador (4.7 EC)	24.7 oz ai/a	A 306	99.0
		508	99.0
		708	99.0
		911	99.0
		Mean =	99.0
24 Valor SX (51 WG)	1.2 oz ai/a	A 106	40.0
Classic	0.412 oz ai/a	A 403	99.0
		608	99.0
		903	99.0
		Mean =	84.3
25 Fierce XLT	2.5 oz ai/a	A 203	99.0
		503	99.0
		706	99.0
		811	99.0
		Mean =	99.0
26 Warrant (3 CS)	18 oz ai/a	A 108	30.0
		311	99.0
		606	70.0
		1011	30.0
		Mean =	57.3
27 Fierce XLT	2.5 oz ai/a	A 303	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 308	99.0
NIS	0.25 % v/v	B 806	99.0
		1008	99.0
		Mean =	99.0
			97.5
			68.58

Purdue University

Pest Type	W Weed	W Weed	
Pest Code	CHEAL	AMBTR	
Pest Scientific Name	Chenopodium al>	Ambrosia trifi>	
Pest Name	Common lambsqu>	Giant ragweed	
Crop Code			GLXMA
BBCH Scale			BSOY
Crop Scientific Name			Glycine max
Crop Name			Soybean
Rating Date	Jul-24-2014	Aug-25-2014	Oct-23-2014
Rating Type	CONTRO	CONTRO	YIELD
Rating Unit	%	%	bu/ac
Sample Size, Unit	1 PLOT	1 PLOT	
Number of Subsamples	1	1	1
Crop Stage Majority			
Pest Stage Majority	35"		
Pest Density, Unit	1 YD2	4 YD2	
Days After First/Last Applic.	58 29	90 61	149 120
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code Plot	
			32
			33
			34
28 MANA 25337 (55 WG)	2.34 oz ai/a	A 206	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 408	99.0
NIS	0.25 % v/v	B 711	99.0
		1006	99.0
		Mean =	99.0
29 Authority First (70 WG)	4.5 oz ai/a	A 111	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 411	99.0
NIS	0.25 % v/v	B 803	99.0
		808	99.0
		Mean =	99.0
30 Matador (4.7 EC)	24.7 oz ai/a	A 208	99.0
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B 511	99.0
NIS	0.25 % v/v	B 603	99.0
		1003	99.0
		Mean =	99.0

Purdue University

ADAMA Soybean Concepts - Pre and Post Programs

Trial ID: 14S-THP-CTS-57 Protocol ID: 14S-THP-CTS-57
Location: Throckmorton Study Director:
Project ID: Investigator: Dr. Bill Johnson
Sponsor Contact: ADAMA - Dario Narvaez

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

CHEAL, Chenopodium album, = US

AMARE, Amaranthus retroflexus, = 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

Purdue University

ADAMA Soybean Concepts - Pre and Post Programs

Trial ID: 14S-THP-CTS-57 Protocol ID: 14S-THP-CTS-57
 Location: Throckmorton Study Director:
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact: ADAMA - Dario Narvaez

Pest Type	W Weed	W Weed			W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR			SETFA	AMBTR	CHEAL			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>			Setaria faberi	Ambrosia trifi>	Chenopodium al>			
Pest Name	Giant foxtail	Giant ragweed			Giant foxtail	Giant ragweed	Common lambsqu>			
Crop Code			GLXMA	GLXMA						
BBCH Scale			BSOY	BSOY						
Crop Scientific Name			Glycine max	Glycine max						
Crop Name			Soybean	Soybean						
Rating Date	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-18-2014	Jun-18-2014	Jun-18-2014			
Rating Type	CONTRO	CONTRO	PHYLMA	PHYCHL	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%	%			
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT			
Number of Subsamples	1	1	1	1	1	1	1			
Crop Stage Majority					V1	V1	V1			
Pest Stage Majority	2.5"	3"			4"	8"	.75"			
Pest Density, Unit	4 FT2	2 YD2			5 FT2	2 YD2	1 YD2			
Days After First/Last Applic.	16 16	16 16	16 16	16 16	22 22	22 22	22 22			
Trt Treatment	Rate	Appl								
No. Name	Rate	Unit	Code	1	2	3	4	5	6	7
1 Untreated Check				0.0 b	0.0 d	0.0 b	0.0 a	0.0 d	0.0 c	0.0 d
2 Prefix (5.29 EC)	21.2 oz ai/a	A		88.0 a	78.7 abc	3.8 ab	1.8 a	91.7 a	37.5 abc	94.5 a
3 Pummel (5.25 ME)	15.7 oz ai/a	A		96.8 a	79.3 abc	6.3 ab	3.8 a	89.8 a	58.8 abc	99.0 a
4 Pummel (5.25 ME)	15.7 oz ai/a	B		32.5 b	30.0 a-d	3.8 ab	3.3 a	25.0 cd	1.5 c	74.5 ab
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B								
NIS	0.25 % v/v	B								
5 Pummel (5.25 ME)	21 oz ai/a	A		99.0 a	63.0 a-d	5.5 ab	2.8 a	96.8 a	60.0 abc	99.0 a
6 Pummel (5.25 ME)	21 oz ai/a	B		31.0 b	30.2 a-d	3.3 b	4.5 a	50.0 bc	37.5 abc	99.3 a
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B								
NIS	0.25 % v/v	B								
7 Pummel (5.25 ME)	21 oz ai/a	A		99.0 a	20.4 a-d	5.0 ab	5.0 a	96.8 a	26.2 abc	99.0 a
Glory (75 DG)	3 oz ai/a	A								
8 Pummel (5.25 ME)	21 oz ai/a	A		99.0 a	85.3 a	6.3 ab	3.8 a	98.0 a	88.8 a	99.0 a
Rumble (1.88 L)	3.76 oz ai/a	A								
9 Pummel (5.25 ME)	21 oz ai/a	B		0.0 b	0.0 d	7.3 ab	2.0 a	12.5 d	27.5 abc	0.0 d
Rumble (1.88 L)	3.76 oz ai/a	B								
NIS	0.25 % v/v	B								
10 MANA 25337 (55 WG)	1.76 oz ai/a	A		99.0 a	78.5 abc	5.5 ab	2.8 a	92.0 a	68.5 abc	99.0 a
11 MANA 25337 (55 WG)	2.34 oz ai/a	A		99.0 a	76.0 abc	6.8 ab	3.0 a	97.0 a	82.5 ab	99.0 a
12 Torment (2.5 SL)	5 oz ai/a	A		99.3 a	41.3 a-d	5.3 ab	1.3 a	92.0 a	50.0 abc	99.0 a
13 Torment (2.5 SL)	5 oz ai/a	B		20.0 b	17.5 bcd	4.3 ab	3.3 a	32.5 cd	17.5 bc	20.0 cd
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B								
NIS	0.25 % v/v	B								
14 Parallel (7.8 EC)	19.5 oz ai/a	A		99.0 a	22.5 a-d	7.3 ab	3.5 a	96.8 a	35.0 abc	99.0 a
Glory (75 DG)	4.5 oz ai/a	A								
Torment (2.5 SL)	5 oz ai/a	B								
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B								
NIS	0.25 % v/v	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.

Purdue University

Pest Type	W Weed	W Weed			W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR			SETFA	AMBTR	CHEAL			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>			Setaria faberi	Ambrosia trifi>	Chenopodium al>			
Pest Name	Giant foxtail	Giant ragweed			Giant foxtail	Giant ragweed	Common lambsqu>			
Crop Code			GLXMA	GLXMA						
BBCH Scale			BSOY	BSOY						
Crop Scientific Name			Glycine max	Glycine max						
Crop Name			Soybean	Soybean						
Rating Date	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-18-2014	Jun-18-2014	Jun-18-2014			
Rating Type	CONTRO	CONTRO	PHYLMA	PHYCHL	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%	%			
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT			
Number of Subsamples	1	1	1	1	1	1	1			
Crop Stage Majority			V1	V1	V1	V1	V1			
Pest Stage Majority	2.5"	3"	4"	8"	4"	8"	.75"			
Pest Density, Unit	4 FT2	2 YD2	5 FT2	2 YD2	1 YD2	2 YD2	1 YD2			
Days After First/Last Applic.	16 16	16 16	16 16	16 16	22 22	22 22	22 22			
Trt Treatment	Rate	Unit	Appl Code							
No. Name	Rate	Unit	Code	1	2	3	4	5	6	7
15 Rumble (1.88 L)	3.76 oz ai/a	B		90.7 a	36.3 a-d	3.8 ab	3.8 a	23.5 cd	20.0 abc	61.3 b
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B								
NIS	0.25 % v/v	B								
16 Warrant (3 CS)	18 oz ai/a	B		30.0 b	45.0 a-d	5.0 ab	4.3 a	25.0 cd	30.0 abc	37.5 c
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B								
NIS	0.25 % v/v	B								
17 Cobra	1.5 oz ai/a	B		0.0 b	0.0 d	3.8 ab	2.3 a	0.0 d	18.8 abc	0.0 d
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B								
NIS	0.25 % v/v	B								
18 Authority First (70 WG)	4.5 oz ai/a	A		78.0 a	80.0 ab	5.3 ab	2.3 a	71.3 ab	83.3 ab	99.0 a
19 Authority Assist (4 SC)	2.5 oz ai/a	A		82.3 a	63.8 a-d	3.8 ab	2.3 a	67.3 ab	27.5 abc	99.3 a
20 Authority MTZ (45 WG)	5.4 oz ai/a	A		99.3 a	12.5 cd	3.8 ab	2.3 a	87.5 a	7.5 c	99.0 a
21 Authority XL (70 WG)	2.8 oz ai/a	A		87.0 a	68.0 abc	4.3 ab	3.5 a	87.3 a	83.5 ab	99.0 a
22 Authority Elite (7 SC)	21.9 oz ai/a	A		99.0 a	82.0 ab	5.0 ab	1.8 a	94.5 a	35.0 abc	99.3 a
23 Matador (4.7 EC)	24.7 oz ai/a	A		98.3 a	46.3 a-d	4.5 ab	4.3 a	98.0 a	46.3 abc	99.0 a
24 Valor SX (51 WG)	1.2 oz ai/a	A		91.7 a	77.4 abc	7.5 ab	2.8 a	88.6 a	68.3 abc	99.3 a
Classic	0.412 oz ai/a	A								
25 Fierce XLT	2.5 oz ai/a	A		99.0 a	84.5 a	11.3 a	3.3 a	99.0 a	85.3 ab	99.0 a
26 Warrant (3 CS)	18 oz ai/a	A		97.7 a	58.8 a-d	3.8 ab	1.5 a	93.3 a	37.5 abc	89.3 a
27 Fierce XLT	2.5 oz ai/a	A		99.0 a	75.0 abc	11.3 a	3.8 a	99.0 a	62.0 abc	99.0 a
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B								
NIS	0.25 % v/v	B								
28 MANA 25337 (55 WG)	2.34 oz ai/a	A		94.5 a	65.8 a-d	5.8 ab	2.3 a	90.5 a	57.5 abc	99.0 a
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B								
NIS	0.25 % v/v	B								
29 Authority First (70 WG)	4.5 oz ai/a	A		82.5 a	67.0 abc	5.0 ab	0.8 a	72.3 ab	65.5 abc	99.0 a
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B								
NIS	0.25 % v/v	B								
30 Matador (4.7 EC)	24.7 oz ai/a	A		98.3 a	55.8 a-d	3.8 ab	3.3 a	94.5 a	56.3 abc	97.9 a
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B								
NIS	0.25 % v/v	B								
LSD (P=.05)				23.77	36.44	4.30	2.94	23.52	38.18	20.16
Standard Deviation				16.81	25.77	3.04	2.08	16.63	27.00	14.26
CV				22.03	50.18	57.98	73.93	23.08	58.9	17.42
Bartlett's X2				38.196	22.189	15.081	17.115	93.781	15.061	9.909
P(Bartlett's X2)				0.001*	0.678	0.978	0.946	0.001*	0.969	0.078
Replicate F				1.309	3.675	3.756	9.165	0.300	3.751	0.766
Replicate Prob(F)				0.2774	0.0154	0.0137	0.0001	0.8255	0.0139	0.5163
Treatment F				17.279	4.750	2.121	1.204	15.996	3.662	22.228
Treatment Prob(F)				0.0001	0.0001	0.0040	0.2513	0.0001	0.0001	0.0001

Purdue University

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code		SETFA	AMBTR	AMARE	CHEAL	SETFA	AMBTR				
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Chenopodium al>	Setaria faberi	Ambrosia trifi>				
Pest Name		Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsqu>	Giant foxtail	Giant ragweed				
Crop Code	GLXMA										
BBCH Scale	BSOY										
Crop Scientific Name	Glycine max										
Crop Name	Soybean										
Rating Date	Jun-18-2014	Jun-24-2014	Jun-24-2014	Jun-24-2014	Jun-24-2014	Jul-2-2014	Jul-2-2014				
Rating Type	PHYSTU	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%	%				
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT				
Number of Subsamples	1	1	1	1	1	1	1				
Crop Stage Majority	V1					V6	V6				
Pest Stage Majority		7"	10"	2"	1.5"	15"	24"				
Pest Density, Unit		5 FT2	2 YD2	2 YD2	2 FT2	5 FT2	2 YD2				
Days After First/Last Applic.	22 22	28 28	28 28	28 28	28 28	36 7	36 7				
Trt No.	Treatment	Rate	Appl								
	Name	Rate	Unit	Code	8	9	10	11	12	13	14
1	Untreated Check				0.0 a	0.0 e	0.0 f	0.0 d	0.0 e	0.0 e	0.0 d
2	Prefix (5.29 EC)	21.2 oz ai/a	A		0.0 a	78.8 abc	55.8 a-f	88.3 a	90.8 a	61.3 cd	25.0 cd
3	Pummel (5.25 ME)	15.7 oz ai/a	A		0.0 a	91.0 ab	83.8 ab	84.3 a	98.5 a	82.0 abc	53.8 abc
4	Pummel (5.25 ME) Roundup PowerMax 4.5 SL NIS	15.7 oz ai/a 12.4 oz ae/a 0.25 % v/v	B B B		0.0 a	51.3 d	0.4 f	57.3 ab	35.0 cd	95.8 a	89.8 ab
5	Pummel (5.25 ME)	21 oz ai/a	A		0.0 a	96.8 a	78.5 a-d	94.3 a	95.8 a	97.8 a	50.0 abc
6	Pummel (5.25 ME) Roundup PowerMax 4.5 SL NIS	21 oz ai/a 12.4 oz ae/a 0.25 % v/v	B B B		0.0 a	68.8 a-d	42.8 a-f	18.7 cd	23.9 cde	99.0 a	79.8 ab
7	Pummel (5.25 ME) Glory (75 DG)	21 oz ai/a 3 oz ai/a	A A		0.0 a	98.5 a	40.3 a-f	99.0 a	99.0 a	99.0 a	27.6 cd
8	Pummel (5.25 ME) Rumble (1.88 L)	21 oz ai/a 3.76 oz ai/a	A A		0.0 a	97.5 a	88.3 a	99.0 a	99.0 a	96.0 a	86.3 ab
9	Pummel (5.25 ME) Rumble (1.88 L) NIS	21 oz ai/a 3.76 oz ai/a 0.25 % v/v	B B B		0.0 a	0.0 e	3.6 ef	6.0 d	0.6 e	59.5 d	88.3 ab
10	MANA 25337 (55 WG)	1.76 oz ai/a	A		0.0 a	92.8 a	78.5 a-d	99.0 a	99.0 a	92.3 a	84.1 ab
11	MANA 25337 (55 WG)	2.34 oz ai/a	A		0.0 a	95.5 a	83.3 abc	99.0 a	91.8 a	94.5 a	61.8 abc
12	Torment (2.5 SL)	5 oz ai/a	A		0.0 a	87.5 ab	70.0 a-d	99.0 a	93.3 a	82.3 abc	52.5 abc
13	Torment (2.5 SL) Roundup PowerMax 4.5 SL NIS	5 oz ai/a 12.4 oz ae/a 0.25 % v/v	B B B		0.0 a	56.3 cd	16.3 c-f	49.5 bc	12.5 de	94.8 a	83.0 ab
14	Parallel (7.8 EC) Glory (75 DG) Torment (2.5 SL) Roundup PowerMax 4.5 SL NIS	19.5 oz ai/a 4.5 oz ai/a 5 oz ai/a 12.4 oz ae/a 0.25 % v/v	A A B B B		0.0 a	98.0 a	49.3 a-f	99.0 a	99.0 a	99.0 a	86.0 ab

Purdue University

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	Jul-2-2014		Jul-2-2014		Jul-2-2014		Jul-2-2014										
Rating Type	CONTRO		PHYSTU		PHYLMMA		PHYCHL										
Rating Unit	%		%		%		%										
Sample Size, Unit	1	PLOT	1	PLOT	1	PLOT	1	PLOT									
Number of Subsamples	1		1		1		1										
Crop Stage Majority	V6		V6		V6		V6										
Pest Stage Majority	6"		6"		6"		6"										
Pest Density, Unit	2 FT2		2 FT2		2 FT2		2 FT2										
Days After First/Last Applic.	36 7		36 7		36 7		36 7										
Trt No.	Treatment	Rate	Appl	15		16		17		18		19		20		21	
Name		Rate	Unit	Code													
1	Untreated Check				0.0 c	0.0 c	0.0 d	0.0 b	0.0 c	0.0 g	0.0 e						
2	Prefix (5.29 EC)	21.2 oz ai/a	A		73.5 a	0.0 c	0.0 d	0.0 b	0.0 c	73.0 f	61.3 abc						
3	Pummel (5.25 ME)	15.7 oz ai/a	A		89.3 a	1.5 bc	0.0 d	0.0 b	0.0 c	92.5 a-e	75.5 ab						
4	Pummel (5.25 ME) Roundup PowerMax 4.5 SL NIS	15.7 oz ai/a 12.4 oz ae/a 0.25 % v/v	B B B		99.0 a	3.3 bc	5.0 c	1.0 b	0.0 c	99.0 a	90.8 a						
5	Pummel (5.25 ME)	21 oz ai/a	A		99.0 a	0.8 bc	0.0 d	0.0 b	0.0 c	96.5 abc	69.5 ab						
6	Pummel (5.25 ME) Roundup PowerMax 4.5 SL NIS	21 oz ai/a 12.4 oz ae/a 0.25 % v/v	B B B		99.0 a	2.5 bc	4.5 c	0.5 b	0.0 c	99.0 a	82.0 a						
7	Pummel (5.25 ME) Glory (75 DG)	21 oz ai/a 3 oz ai/a	A A		99.0 a	0.8 bc	1.5 d	1.8 b	1.3 c	97.0 abc	57.0 abc						
8	Pummel (5.25 ME) Rumble (1.88 L)	21 oz ai/a 3.76 oz ai/a	A A		99.0 a	0.0 c	0.0 d	0.0 b	0.0 c	96.3 abc	93.0 a						
9	Pummel (5.25 ME) Rumble (1.88 L) NIS	21 oz ai/a 3.76 oz ai/a 0.25 % v/v	B B B		75.5 a	2.0 bc	6.0 c	7.8 a	3.0 c	80.3 ef	82.5 a						
10	MANA 25337 (55 WG)	1.76 oz ai/a	A		99.0 a	0.0 c	0.0 d	0.0 b	0.0 c	93.5 a-d	75.3 ab						
11	MANA 25337 (55 WG)	2.34 oz ai/a	A		91.8 a	0.8 bc	0.0 d	0.0 b	0.0 c	94.8 a-d	81.5 a						
12	Torment (2.5 SL)	5 oz ai/a	A		95.5 a	0.8 bc	0.0 d	0.0 b	0.0 c	91.5 a-e	69.5 ab						
13	Torment (2.5 SL) Roundup PowerMax 4.5 SL NIS	5 oz ai/a 12.4 oz ae/a 0.25 % v/v	B B B		99.0 a	3.0 bc	4.0 c	5.3 a	5.3 b	99.0 a	85.5 a						
14	Parallel (7.8 EC) Glory (75 DG) Torment (2.5 SL) Roundup PowerMax 4.5 SL NIS	19.5 oz ai/a 4.5 oz ai/a 5 oz ai/a 12.4 oz ae/a 0.25 % v/v	A A B B B		99.0 a	4.3 bc	5.8 c	6.8 a	8.0 a	99.0 a	87.8 a						

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Pest Type	W Weed	W Weed						
Pest Code	AMARE	CHEAL						
Pest Scientific Name	Amaranthus ret>	Chenopodium al>						
Pest Name	Redroot pigweed	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	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-16-2014	Jul-16-2014	Jul-16-2014
Rating Type	CONTRO	CONTRO	PHYSTU	PHYLMA	PHYNEC	PHYSTU	PHYLMA	PHYSTU
Rating Unit	%	%	%	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1	1	1	1
Crop Stage Majority	R1	R1	R1	R1	R1	R1	R1	R1
Pest Stage Majority	24"	23"						
Pest Density, Unit	2 YD2	3 YD2						
Days After First/Last Applic.	44 15	44 15	44 15	44 15	44 15	50 21	50 21	50 21
Trt Treatment								
No. Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit
	Code	Code	Code	Code	Code	Code	Code	Code
	22	23	24	25	26	27	28	
1 Untreated Check		0.0 c	0.0 d	0.0 b	0.0 d	0.0 c	0.0 b	0.0 d
2 Prefix (5.29 EC)	21.2 oz ai/a A	78.3 b	72.3 c	0.0 b	0.0 d	0.0 c	0.0 b	0.0 d
3 Pummel (5.25 ME)	15.7 oz ai/a A	91.8 a	99.0 a	0.8 b	0.0 d	0.0 c	1.3 b	0.0 d
4 Pummel (5.25 ME)	15.7 oz ai/a B	99.0 a	99.0 a	2.5 b	0.0 d	0.0 c	2.5 b	0.5 d
Roundup PowerMax 4.5 SL	12.4 oz ae/a B							
NIS	0.25 % v/v B							
5 Pummel (5.25 ME)	21 oz ai/a A	99.0 a	89.3 abc	0.5 b	0.0 d	0.0 c	0.0 b	0.0 d
6 Pummel (5.25 ME)	21 oz ai/a B	98.5 a	99.0 a	2.3 b	0.0 d	0.0 c	1.3 b	0.0 d
Roundup PowerMax 4.5 SL	12.4 oz ae/a B							
NIS	0.25 % v/v B							
7 Pummel (5.25 ME)	21 oz ai/a A	99.0 a	99.0 a	2.3 b	0.0 d	0.0 c	0.0 b	0.0 d
Glory (75 DG)	3 oz ai/a A							
8 Pummel (5.25 ME)	21 oz ai/a A	99.0 a	99.0 a	0.0 b	0.0 d	0.0 c	0.0 b	0.0 d
Rumble (1.88 L)	3.76 oz ai/a A							
9 Pummel (5.25 ME)	21 oz ai/a B	99.0 a	71.3 c	2.5 b	5.8 b	0.0 c	1.5 b	1.8 bc
Rumble (1.88 L)	3.76 oz ai/a B							
NIS	0.25 % v/v B							
10 MANA 25337 (55 WG)	1.76 oz ai/a A	99.0 a	99.0 a	1.3 b	0.0 d	0.0 c	0.0 b	0.0 d
11 MANA 25337 (55 WG)	2.34 oz ai/a A	99.0 a	95.5 a	0.8 b	0.0 d	0.0 c	0.0 b	0.0 d
12 Torment (2.5 SL)	5 oz ai/a A	99.0 a	96.0 a	2.0 b	0.0 d	0.0 c	0.8 b	0.0 d
13 Torment (2.5 SL)	5 oz ai/a B	99.0 a	99.0 a	1.5 b	4.0 c	0.8 c	0.0 b	1.8 bc
Roundup PowerMax 4.5 SL	12.4 oz ae/a B							
NIS	0.25 % v/v B							
14 Parallel (7.8 EC)	19.5 oz ai/a A	99.0 a	99.0 a	2.3 b	5.8 b	3.0 b	2.5 b	0.5 d
Glory (75 DG)	4.5 oz ai/a A							
Torment (2.5 SL)	5 oz ai/a B							
Roundup PowerMax 4.5 SL	12.4 oz ae/a B							
NIS	0.25 % v/v B							

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Pest Type	W Weed	W Weed							
Pest Code	AMARE	CHEAL							
Pest Scientific Name	Amaranthus ret>	Chenopodium al>							
Pest Name	Redroot pigweed	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	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-10-2014	Jul-16-2014	Jul-16-2014	Jul-16-2014	
Rating Type	CONTRO	CONTRO	PHYSTU	PHYLMA	PHYNEC	PHYSTU	PHYLMA	PHYSTU	
Rating Unit	%	%	%	%	%	%	%	%	
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	
Number of Subsamples	1	1	1	1	1	1	1	1	
Crop Stage Majority	R1	R1	R1	R1	R1	R1	R1	R1	
Pest Stage Majority	24"	23"							
Pest Density, Unit	2 YD2	3 YD2							
Days After First/Last Applic.	44 15	44 15	44 15	44 15	44 15	50 21	50 21	50 21	
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
No. Name	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	
Appl Code									
15 Rumble (1.88 L)	3.76 oz ai/a	B	99.0 a	99.0 a	3.3 b	5.3 b	4.3 a	3.0 b	1.5 cd
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B							
NIS	0.25 % v/v	B							
16 Warrant (3 CS)	18 oz ai/a	B	99.0 a	97.8 a	1.5 b	0.8 d	0.0 c	1.8 b	0.0 d
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B							
NIS	0.25 % v/v	B							
17 Cobra	1.5 oz ai/a	B	99.0 a	98.0 a	7.8 a	8.5 a	4.8 a	8.5 a	6.0 a
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B							
NIS	0.25 % v/v	B							
18 Authority First (70 WG)	4.5 oz ai/a	A	99.0 a	99.0 a	0.0 b	0.0 d	0.0 c	0.8 b	0.0 d
19 Authority Assist (4 SC)	2.5 oz ai/a	A	99.0 a	89.3 abc	1.3 b	0.0 d	0.0 c	0.5 b	0.0 d
20 Authority MTZ (45 WG)	5.4 oz ai/a	A	99.0 a	99.0 a	0.0 b	0.0 d	0.0 c	0.0 b	0.0 d
21 Authority XL (70 WG)	2.8 oz ai/a	A	99.0 a	96.5 a	1.3 b	0.0 d	0.0 c	0.5 b	0.0 d
22 Authority Elite (7 SC)	21.9 oz ai/a	A	99.0 a	91.8 ab	2.3 b	0.0 d	0.0 c	1.8 b	0.0 d
23 Matador (4.7 EC)	24.7 oz ai/a	A	99.0 a	99.0 a	0.8 b	0.0 d	0.0 c	0.0 b	0.0 d
24 Valor SX (51 WG)	1.2 oz ai/a	A	99.0 a	99.0 a	1.3 b	0.0 d	0.0 c	2.3 b	0.0 d
Classic	0.412 oz ai/a	A							
25 Fierce XLT	2.5 oz ai/a	A	99.0 a	99.0 a	0.5 b	0.0 d	0.0 c	1.3 b	0.0 d
26 Warrant (3 CS)	18 oz ai/a	A	99.0 a	74.8 bc	1.3 b	0.0 d	0.0 c	0.0 b	0.0 d
27 Fierce XLT	2.5 oz ai/a	A	99.0 a	99.0 a	2.5 b	5.3 b	2.5 b	3.8 b	2.8 b
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B							
NIS	0.25 % v/v	B							
28 MANA 25337 (55 WG)	2.34 oz ai/a	A	99.0 a	99.0 a	1.3 b	0.0 d	0.0 c	0.5 b	0.0 d
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B							
NIS	0.25 % v/v	B							
29 Authority First (70 WG)	4.5 oz ai/a	A	99.0 a	99.0 a	2.0 b	0.8 d	0.0 c	1.8 b	0.0 d
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B							
NIS	0.25 % v/v	B							
30 Matador (4.7 EC)	24.7 oz ai/a	A	99.0 a	99.0 a	1.3 b	0.0 d	0.0 c	1.5 b	0.0 d
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B							
NIS	0.25 % v/v	B							
LSD (P=.05)	8.18		13.18		2.60		1.03		0.71
Standard Deviation	5.79		9.32		1.84		0.73		0.50
CV	6.11		10.15		118.77		60.84		99.28
Bartlett's X2	16.013		30.561		10.593		9.165		5.449
P(Bartlett's X2)	0.001*		0.001*		0.992		0.241		0.142
Replicate F	0.548		2.116		0.213		1.960		1.429
Replicate Prob(F)	0.6505		0.1040		0.8871		0.1260		0.2399
Treatment F	40.128		16.815		2.571		43.331		26.366
Treatment Prob(F)	0.0001		0.0001		0.0004		0.0001		0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	AMBTR	AMARE	CHEAL	AMBTR				
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Chenopodium al>	Ambrosia trifi>				
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsqu>	Giant ragweed				
Crop Code						GLXMA			
BBCB Scale						BSOY			
Crop Scientific Name						Glycine max			
Crop Name						Soybean			
Rating Date	Jul-24-2014	Jul-24-2014	Jul-24-2014	Jul-24-2014	Aug-25-2014	Oct-23-2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	YIELD			
Rating Unit	%	%	%	%	%	bu/ac			
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT				
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority									
Pest Stage Majority	46"	60"	36"	35"					
Pest Density, Unit	10 FT2	4 YD2	1 YD2	1 YD2	4 YD2				
Days After First/Last Applic.	58 29	58 29	58 29	58 29	90 61	149 120			
Trt Treatment	Rate	Appl							
No. Name	Rate	Unit	Code	29	30	31	32	33	34
1 Untreated Check				0.0 d	0.0 g	0.0 c	0.0 c	0.0 b	47.90 c
2 Prefix (5.29 EC)	21.2 oz ai/a	A		66.8 c	69.8 a-e	79.5 b	61.0 b	88.3 a	57.50 bc
3 Pummel (5.25 ME)	15.7 oz ai/a	A		88.3 ab	75.5 a-e	99.0 a	99.0 a	89.0 a	69.25 ab
4 Pummel (5.25 ME)	15.7 oz ai/a	B		98.5 a	91.8 a-d	99.0 a	99.0 a	97.8 a	71.08 ab
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B							
NIS	0.25 % v/v	B							
5 Pummel (5.25 ME)	21 oz ai/a	A		95.8 a	72.3 a-e	99.0 a	93.0 a	89.8 a	71.83 ab
6 Pummel (5.25 ME)	21 oz ai/a	B		98.8 a	88.3 a-e	99.0 a	99.0 a	97.5 a	65.10 abc
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B							
NIS	0.25 % v/v	B							
7 Pummel (5.25 ME)	21 oz ai/a	A		96.8 a	72.3 a-e	99.0 a	99.0 a	88.5 a	62.85 abc
Glory (75 DG)	3 oz ai/a	A							
8 Pummel (5.25 ME)	21 oz ai/a	A		98.0 a	87.8 a-e	99.0 a	99.0 a	94.3 a	72.73 ab
Rumble (1.88 L)	3.76 oz ai/a	A							
9 Pummel (5.25 ME)	21 oz ai/a	B		82.3 b	88.5 a-e	99.0 a	55.0 b	99.0 a	74.43 ab
Rumble (1.88 L)	3.76 oz ai/a	B							
NIS	0.25 % v/v	B							
10 MANA 25337 (55 WG)	1.76 oz ai/a	A		92.5 ab	88.1 a-e	99.0 a	99.0 a	86.8 a	78.48 a
11 MANA 25337 (55 WG)	2.34 oz ai/a	A		96.0 a	80.8 a-e	99.0 a	99.0 a	89.8 a	65.60 abc
12 Torment (2.5 SL)	5 oz ai/a	A		92.3 ab	70.8 a-e	99.0 a	94.3 a	89.8 a	67.48 ab
13 Torment (2.5 SL)	5 oz ai/a	B		99.0 a	89.5 a-e	99.0 a	99.0 a	98.0 a	71.40 ab
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B							
NIS	0.25 % v/v	B							
14 Parallel (7.8 EC)	19.5 oz ai/a	A		98.5 a	93.3 abc	99.0 a	99.0 a	99.0 a	71.48 ab
Glory (75 DG)	4.5 oz ai/a	A							
Torment (2.5 SL)	5 oz ai/a	B							
Roundup PowerMax 4.5 SL	12.4 oz ae/a	B							
NIS	0.25 % v/v	B							

Purdue University

ADAMA Soybean Concepts - Pre and Post Programs

Trial ID: 14S-THP-CTS-57 Protocol ID: 14S-THP-CTS-57
Location: Throckmorton Study Director:
Project ID: Investigator: Dr. Bill Johnson
Sponsor Contact: ADAMA - Dario Narvaez

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

CHEAL, Chenopodium album, = US

AMARE, Amaranthus retroflexus, = 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