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## TO DETERMINE HERBICIDAL EFFICACY AND SELECTIVITY OF STATEMENT WHEN APPLIED PRE TO SOYBEAN IN 2014

Trial ID: 14S-THP-CTS-54      Protocol ID: 14S-THP-CTS-54  
 Location: Throckmorton      Study Director:  
 Project ID: HGLXMAFOMME1401 & 1402      Investigator: Dr. Bill Johnson  
 Sponsor Contact: JIM BARRENTINE

### 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

**Keywords:** STATEMENT (CHA-044) METOLACHLOR, FOMESAFEN, PREMIX, SOYBEAN, GLYPHOSATE RESISTANT PALMER AMARANTH, WATERHEMP, RAGWEED, ANNUAL GRASS WEEDS, MORNINGGLORY, SELECTIVITY, EFFICACY

### Objectives:

COMPARE THE ACTIVITY OF STATEMENT TO PREFIX & OTHER COMMERCIAL HERBICIDES WHEN APPLIED PRE TO SOYBEAN

### Personnel

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

### Cooperator/Landowner

**Cooperator:** Throckmorton Purdue Ag Center      **Role:** Purdue Ag Center  
**Organization:** Purdue University  
**Address 1:** 8343 US 231 S  
  
**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:** AMBTR Ambrosia trifida  
**Common Name:** Giant ragweed

**Pest 2 Type:** W    **Code:** SETFA Setaria faberi  
**Common Name:** Giant foxtail

**Pest 3 Type:** W    **Code:** ABUTH Abutilon theophrasti  
**Common Name:** Velvetleaf

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

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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 FT <sup>2</sup>	Tillage Type: CONTIL conventional-till
Replications: 4	Study Design: RACOB� Randomized Complete Block (RCB)
	Untreated Arrangement: INCLUDED single control randomized in each block

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	C
Application Date:	May-8-2014	May-30-2014	Jul-2-2014
Time of Day:	AM	AM	AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	ATPLAN	EAPOWE	POSPOS
Application Placement:	BROADC	FOLIAR	FOLIAR
Air Temperature, Unit:	74 F	76 F	77 F
% Relative Humidity:	62	48	66
Wind Velocity, Unit:	10 mph	5.7 MPH	3 MPH
Wind Direction:	SW	NE	NW
Dew Presence (Y/N):	N no	N no	Y yes
Soil Temperature, Unit:	64 F	78 F	72 F
Soil Moisture:	Dry	DRY	NORMAL
% Cloud Cover:	15	10	10

Crop Stage At Each Application			
	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BBCH	BBCH	BBCH
Stage Majority, Percent:	00	11	60

Pest Stage At Each Application			
	A	B	C
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:			20 IN
Height Minimum, Maximum:		1 4	
Density, Unit:		4 YD2	2 FT2
Pest 2 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:			17 IN
Height Minimum, Maximum:		1 3	
Density, Unit:		7 FT2	3 FT2
Pest 3 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Height Minimum, Maximum:		1 2	
Density, Unit:		2 YD2	
Pest 4 Code, Type, Scale:	IPOHE W	IPOHE W	IPOHE W
Height Minimum, Maximum:		1 2	
Density, Unit:		1 YD2	

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## Application Equipment

	A	B	C
<b>Appl. Equipment:</b>	CO2 FORD	CO2 FORD	CO2 FORD
<b>Equipment Type:</b>	SPTRMO	SPTRMO	SPTRMO
<b>Operation Pressure, Unit:</b>	25 PSI	25 PSI	25 PSI
<b>Nozzle Type:</b>	FLAT FAN	FLAT FAN	FLAT FAN
<b>Nozzle Size:</b>	XR 100 02	XR 100 02	XR 100 02
<b>Nozzle Spacing, Unit:</b>	20 IN	20 IN	20 IN
<b>Nozzles/Row:</b>	6	6	6
<b>Boom Length, Unit:</b>	10 FT	10 FT	10 FT
<b>Ground Speed, Unit:</b>	2.1 MPH	2.1 MPH	2.1 MPH
<b>Carrier:</b>	MEIGS	MEIGS	MEIGS
<b>Spray Volume, Unit:</b>	20 gal/ac	20 gal/ac	20 gal/ac
<b>Mix Size, Unit:</b>	2.5 liters	2.5 liters	2.5 liters
<b>Propellant:</b>	CO2	CO2	CO2

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Reps: 4

Plots: 10 by 30 feet

Spray vol: 20 gal/ac

Mix size: 2.5 liters (min 2.0856)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Appl Description	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
1	UNTREATED													101	405	702	805
2	STATEMENT	5.25 LB/GAL		EC	1.31 lb ai/a		32 fl oz/a		PREMCR A			31.19 ml/mx		102	404	602	804
	Glyfos Xtra (3 SL)	3 LBAE/GAL		SL	0.75 lb ae/a		32 fl oz/a		POSPOS C			31.25 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		POSPOS C			62.49 ml/mx					
3	PREFIX	5.29 LB/GAL		EC	1.32 lb ai/a		32 fl oz/a		PREMCR A			31.19 ml/mx		104	502	704	901
	Glyfos Xtra (3 SL)	3 LBAE/GAL		SL	0.75 lb ae/a		32 fl oz/a		POSPOS C			31.25 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		POSPOS C			62.49 ml/mx					
4	STATEMENT	5.25 LB/GAL		EC	1.31 lb ai/a		32 fl oz/a		EAPOWE B	2" Weeds		31.19 ml/mx		105	402	605	904
	Glyfos Xtra (3 SL)	3 LBAE/GAL		SL	0.75 lb ae/a		32 fl oz/a		EAPOWE B	2" Weeds		31.25 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		EAPOWE B	2" Weeds		62.49 ml/mx					
	Glyfos Xtra (3 SL)	3 LBAE/GAL		SL	0.75 lb ae/a		32 fl oz/a		POSPOS C			31.25 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		POSPOS C			62.49 ml/mx					
5	Rhythm (1.88 ME)	1.88 LBA/GAL		ME	0.375 lb ai/a		25.5 fl oz/a		EAPOWE B	2" Weeds		24.93 ml/mx		201	505	705	905
	Glyfos Xtra (3 SL)	3 LBAE/GAL		SL	0.75 lb ae/a		32 fl oz/a		EAPOWE B	2" Weeds		31.25 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		EAPOWE B	2" Weeds		62.49 ml/mx					
	Glyfos Xtra (3 SL)	3 LBAE/GAL		SL	0.75 lb ae/a		32 fl oz/a		POSPOS C			31.25 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		POSPOS C			62.49 ml/mx					
6	Prefix (5.29 EC)	5.29 LBA/GAL		EC	1.32 lb ai/a		32 fl oz/a		EAPOWE B	2" Weeds		31.19 ml/mx		202	501	802	1005
	Glyfos Xtra (3 SL)	3 LBAE/GAL		SL	0.75 lb ae/a		32 fl oz/a		EAPOWE B	2" Weeds		31.25 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		EAPOWE B	2" Weeds		62.49 ml/mx					
	Glyfos Xtra (3 SL)	3 LBAE/GAL		SL	0.75 lb ae/a		32 fl oz/a		POSPOS C			31.25 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		POSPOS C			62.49 ml/mx					
7	Sonic (70 WG)	70 %		WG	2.1 oz ai/a		3 oz/a		PREMCR A			2.808 g/mx		204	401	601	902
	Durango DMA (4 SL)	4 LBAE/GAL		SL	12 oz ae/a		24 oz/a		POSPOS C	4-6" weeds		23.43 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		POSPOS C	4-6" weeds		62.49 ml/mx					
8	Sonic (70 WG)	70 %		WG	3.15 oz ai/a		4.5 oz/a		PREMCR A			4.213 g/mx		205	305	604	1004
	Durango DMA (4 SL)	4 LBAE/GAL		SL	12 oz ae/a		24 oz/a		POSPOS C	4-6" weeds		23.43 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		POSPOS C	4-6" weeds		62.49 ml/mx					
9	Sonic (70 WG)	70 %		WG	4.2 oz ai/a		6 oz/a		PREMCR A			5.617 g/mx		301	304	701	1001
	Durango DMA (4 SL)	4 LBAE/GAL		SL	12 oz ae/a		24 oz/a		POSPOS C	4-6" weeds		23.43 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		POSPOS C	4-6" weeds		62.49 ml/mx					
10	Sonic (70 WG)	70 %		WG	2.1 oz ai/a		3 oz/a		PREMCR A			2.808 g/mx		302	504	801	1002
	Durango DMA (4 SL)	4 LBAE/GAL		SL	12 oz ae/a		24 oz/a		POSPOS C	4-6" weeds		23.43 ml/mx					
	FirstRate (84 WG)	84 %		WG	0.252 oz ai/a		0.3 oz/a		POSPOS C	4-6" weeds		0.2808 g/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		POSPOS C	4-6" weeds		62.49 ml/mx					
11	Surveil Co-Pack						2.4 oz wt/a							103	303	603	803
	FirstRate (84 WG)	84 %		WG	0.336 oz ai/a		0.4 oz/a		PREMCR A			0.3745 g/mx					
	Valor SX (51 WG)	51 %		WG	1.02 oz ai/a		2 oz/a		PREMCR A			1.872 g/mx					
	Durango DMA (4 SL)	4 LBAE/GAL		SL	12 oz ae/a		24 oz/a		POSPOS C	4-6" weeds		23.43 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		POSPOS C	4-6" weeds		62.49 ml/mx					
12	Surveil Co-Pack						3.6 oz wt/a							203	403	703	903
	FirstRate (84 WG)	84 %		WG	0.504 oz ai/a		0.6 oz/a		PREMCR A			0.5617 g/mx					
	Valor SX (51 WG)	51 %		WG	1.53 oz ai/a		3 oz/a		PREMCR A			2.808 g/mx					
	Durango DMA (4 SL)	4 LBAE/GAL		SL	12 oz ae/a		24 oz/a		POSPOS C	4-6" weeds		23.43 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		POSPOS C	4-6" weeds		62.49 ml/mx					

Sort Order: Treatment

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 Location: Throckmorton      Study Director:  
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 Sponsor Contact: JIM BARRENTINE

Pest Type		W Weed	W Weed							
Pest Code		AMBTR	SETFA							
Pest Scientific Name		Ambrosia trifi>	Setaria faberi							
Pest Name		Giant ragweed	Giant foxtail							
Crop Code	GLXMA			GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY			BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max			Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean			Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Rating Date	May-22-2014	May-28-2014	May-28-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014
Rating Type	STASUB	CONTRO	CONTRO	PHYSTU	PHYLMA	PHYNEC	PHYNEC	PHYNEC	PHYNEC	PHYCHL
Rating Unit	%	%	%	%	%	%	%	%	%	%
Sample Size, Unit	1 PLOT	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	1
Crop Stage Majority		V1	V1	V2	V2	V2	V2	V2	V2	V2
Pest Stage Majority		4	3							
Pest Density, Unit		5 YD2	2 YD2							
Days After First/Last Applic.	14 14	20 20	20 20	29 7	29 7	29 7	29 7	29 7	29 7	29 7
Trt-Eval Interval	14 DA-A									
Plant-Eval Interval	15 DP-1	21 DP-1	21 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1
Days After Emergence	9 DE-1	15 DE-1	15 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6	7	
1 UNTREATED		101	85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		405	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		702	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		805	75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean =	75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 STATEMENT	1.31 lb ai/a	A 102	85.0	50.0	70.0	0.0	0.0	0.0	0.0	0.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 404	75.0	85.0	99.0	0.0	0.0	0.0	0.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	C 602	60.0	60.0	90.0	0.0	0.0	0.0	0.0	0.0
		804	75.0	50.0	95.0	0.0	0.0	0.0	0.0	0.0
		Mean =	73.8	61.3	88.5	0.0	0.0	0.0	0.0	0.0
3 PREFIX	1.32 lb ai/a	A 104	85.0	80.0	85.0	0.0	0.0	0.0	0.0	3.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 502	75.0	90.0	97.0	0.0	0.0	0.0	0.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	C 704	85.0	80.0	85.0	0.0	7.0	0.0	0.0	5.0
		901	90.0	80.0	95.0	0.0	0.0	0.0	0.0	0.0
		Mean =	83.8	82.5	90.5	0.0	1.8	0.0	0.0	2.0
4 STATEMENT	1.31 lb ai/a	B 105	80.0	0.0	0.0	7.0	10.0	7.0	0.0	0.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	B 402	80.0	55.0	0.0	10.0	20.0	5.0	0.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 605	85.0	0.0	0.0	5.0	15.0	7.0	0.0	0.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 904	80.0	0.0	0.0	7.0	10.0	10.0	0.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	C								
		Mean =	81.3	13.8	0.0	7.3	13.8	7.3	0.0	0.0
5 Rhythm (1.88 ME)	0.375 lb ai/a	B 201	80.0	0.0	0.0	5.0	10.0	7.0	0.0	0.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	B 505	60.0	70.0	0.0	3.0	10.0	3.0	0.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 705	87.0	0.0	50.0	0.0	7.0	5.0	0.0	0.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 905	70.0	0.0	0.0	5.0	10.0	7.0	0.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	C								
		Mean =	74.3	17.5	12.5	3.3	9.3	5.5	0.0	0.0

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Pest Type		W Weed	W Weed								
Pest Code		AMBTR	SETFA								
Pest Scientific Name		Ambrosia trifi>	Setaria faberi								
Pest Name		Giant ragweed	Giant foxtail								
Crop Code	GLXMA			GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY			BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max			Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean			Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Rating Date	May-22-2014	May-28-2014	May-28-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014
Rating Type	STASUB	CONTRO	CONTRO	PHYSTU	PHYLMA	PHYNEC	PHYNEC	PHYNEC	PHYNEC	PHYNEC	PHYCHL
Rating Unit	%	%	%	%	%	%	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	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	1	1
Crop Stage Majority		V1	V1	V2	V2	V2	V2	V2	V2	V2	V2
Pest Stage Majority		4	3								
Pest Density, Unit		5 YD2	2 YD2								
Days After First/Last Applic.	14 14	20 20	20 20	29 7	29 7	29 7	29 7	29 7	29 7	29 7	29 7
Trt-Eval Interval	14 DA-A										
Plant-Eval Interval	15 DP-1	21 DP-1	21 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1
Days After Emergence	9 DE-1	15 DE-1	15 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1
Trt Treatment	Rate	Appl									
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6	7		
6 Prefix (5.29 EC)	1.32 lb ai/a	B 202	80.0	0.0	0.0	5.0	15.0	10.0	0.0		
Glyfos Xtra (3 SL)	0.75 lb ae/a	B 501	40.0	0.0	0.0	10.0	15.0	10.0	0.0		
AMS - Liquid	8.5 lb ai/100 gal	B 802	80.0	0.0	60.0	7.0	15.0	5.0	0.0		
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 1005	80.0	50.0	0.0	7.0	15.0	10.0	0.0		
AMS - Liquid	8.5 lb ai/100 gal	C									
		Mean =	70.0	12.5	15.0	7.3	15.0	8.8	0.0		
7 Sonic (70 WG)	2.1 oz ai/a	A 204	60.0	90.0	95.0	0.0	0.0	0.0	0.0		
Durango DMA (4 SL)	12 oz ae/a	C 401	70.0	60.0	90.0	5.0	3.0	0.0	0.0		
AMS - Liquid	8.5 lb ai/100 gal	C 601	40.0	85.0	90.0	3.0	0.0	0.0	0.0		
		902	75.0	85.0	90.0	3.0	0.0	0.0	0.0		
		Mean =	61.3	80.0	91.3	2.8	0.8	0.0	0.0		
8 Sonic (70 WG)	3.15 oz ai/a	A 205	50.0	95.0	96.0	0.0	0.0	0.0	0.0		
Durango DMA (4 SL)	12 oz ae/a	C 305	50.0	90.0	80.0	0.0	0.0	0.0	0.0		
AMS - Liquid	8.5 lb ai/100 gal	C 604	70.0	80.0	70.0	0.0	5.0	0.0	0.0		
		1004	65.0	80.0	90.0	0.0	5.0	0.0	0.0		
		Mean =	58.8	86.3	84.0	0.0	2.5	0.0	0.0		
9 Sonic (70 WG)	4.2 oz ai/a	A 301	40.0	95.0	97.0	7.0	0.0	0.0	0.0		
Durango DMA (4 SL)	12 oz ae/a	C 304	40.0	95.0	95.0	0.0	3.0	0.0	0.0		
AMS - Liquid	8.5 lb ai/100 gal	C 701	30.0	90.0	95.0	5.0	0.0	0.0	0.0		
		1001	30.0	90.0	97.0	5.0	0.0	0.0	0.0		
		Mean =	35.0	92.5	96.0	4.3	0.8	0.0	0.0		
10 Sonic (70 WG)	2.1 oz ai/a	A 302	60.0	80.0	75.0	0.0	0.0	0.0	0.0		
Durango DMA (4 SL)	12 oz ae/a	C 504	75.0	80.0	60.0	0.0	0.0	0.0	0.0		
FirstRate (84 WG)	0.252 oz ai/a	C 801	60.0	60.0	95.0	3.0	5.0	0.0	0.0		
AMS - Liquid	8.5 lb ai/100 gal	C 1002	80.0	85.0	80.0	0.0	0.0	0.0	0.0		
		Mean =	68.8	76.3	77.5	0.8	1.3	0.0	0.0		
11 Surveil Co-Pack		103	80.0	90.0	95.0	0.0	3.0	0.0	3.0		
FirstRate (84 WG)	0.336 oz ai/a	A 303	80.0	90.0	80.0	3.0	0.0	0.0	0.0		
Valor SX (51 WG)	1.02 oz ai/a	A 603	50.0	95.0	97.0	0.0	3.0	0.0	0.0		
Durango DMA (4 SL)	12 oz ae/a	C 803	70.0	90.0	95.0	0.0	0.0	5.0	0.0		
AMS - Liquid	8.5 lb ai/100 gal	C									
		Mean =	70.0	91.3	91.8	0.8	1.5	1.3	0.8		

# Purdue University

Pest Type		W Weed	W Weed							
Pest Code		AMBTR	SETFA							
Pest Scientific Name		Ambrosia trifi>	Setaria faberi							
Pest Name		Giant ragweed	Giant foxtail							
Crop Code	GLXMA			GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY			BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max			Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean			Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Rating Date	May-22-2014	May-28-2014	May-28-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014
Rating Type	STASUB	CONTRO	CONTRO	PHYSTU	PHYLMA	PHYNEC	PHYCHL			
Rating Unit	%	%	%	%	%	%	%	%	%	%
Sample Size, Unit	1 PLOT	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	1
Crop Stage Majority		V1	V1	V2	V2	V2	V2	V2	V2	V2
Pest Stage Majority		4	3							
Pest Density, Unit		5 YD2	2 YD2							
Days After First/Last Applic.	14 14	20 20	20 20	29 7	29 7	29 7	29 7	29 7	29 7	29 7
Trt-Eval Interval	14 DA-A									
Plant-Eval Interval	15 DP-1	21 DP-1	21 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1
Days After Emergence	9 DE-1	15 DE-1	15 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6	7	
12 Surveil Co-Pack		203	75.0	97.0	97.0	0.0	3.0	0.0	0.0	0.0
FirstRate (84 WG)	0.504 oz ai/a	A 403	65.0	95.0	95.0	0.0	0.0	0.0	0.0	0.0
Valor SX (51 WG)	1.53 oz ai/a	A 703	45.0	90.0	85.0	3.0	3.0	0.0	0.0	0.0
Durango DMA (4 SL)	12 oz ae/a	C 903	65.0	90.0	90.0	0.0	3.0	0.0	0.0	3.0
AMS - Liquid	8.5 lb ai/100 gal	C								
	Mean =		62.5	93.0	91.8	0.8	2.3	0.0	0.8	

# Purdue University

Pest Type	W Weed	W Weed					W Weed		
Pest Code	SETFA	AMBTR					SETFA		
Pest Scientific Name	Setaria faberi	Ambrosia trifida					Setaria faberi		
Pest Name	Giant foxtail	Giant ragweed					Giant foxtail		
Crop Code			GLXMA	GLXMA	GLXMA	GLXMA			
BBCB Scale			BSOY	BSOY	BSOY	BSOY			
Crop Scientific Name			Glycine max	Glycine max	Glycine max	Glycine max			
Crop Name			Soybean	Soybean	Soybean	Soybean			
Rating Date	Jun-13-2014	Jun-13-2014	Jun-13-2014	Jun-13-2014	Jun-13-2014	Jun-13-2014	Jun-19-2014		
Rating Type	CONTRO	CONTRO	PHYSTU	PHYLMA	PHYNEC	PHYCHL	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	V3	V3	V3	V3	V3	V3	V4		
Pest Stage Majority	3	8					6		
Pest Density, Unit	6 FT2	7 YD2					9 FT2		
Days After First/Last Applic.	36 14	36 14	36 14	36 14	36 14	36 14	42 20		
Trt-Eval Interval									
Plant-Eval Interval	37 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1	43 DP-1		
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1	37 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot	8	9	10	11	12	13	14
1 UNTREATED		101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		405	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		702	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		805	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 STATEMENT	1.31 lb ai/a	A 102	60.0	0.0	0.0	0.0	0.0	0.0	60.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 404	70.0	80.0	0.0	0.0	0.0	0.0	67.0
AMS - Liquid	8.5 lb ai/100 gal	C 602	82.0	50.0	0.0	0.0	3.0	0.0	91.0
		804	90.0	0.0	0.0	0.0	0.0	0.0	85.0
		Mean =	75.5	32.5	0.0	0.0	0.8	0.0	75.8
3 PREFIX	1.32 lb ai/a	A 104	90.0	80.0	0.0	0.0	0.0	0.0	90.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 502	80.0	50.0	0.0	5.0	0.0	0.0	92.0
AMS - Liquid	8.5 lb ai/100 gal	C 704	93.0	87.0	0.0	7.0	0.0	5.0	87.0
		901	95.0	83.0	0.0	0.0	0.0	0.0	90.0
		Mean =	89.5	75.0	0.0	3.0	0.0	1.3	89.8
4 STATEMENT	1.31 lb ai/a	B 105	99.0	90.0	5.0	10.0	7.0	0.0	99.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	B 402	97.0	87.0	7.0	15.0	10.0	0.0	97.0
AMS - Liquid	8.5 lb ai/100 gal	B 605	95.0	93.0	0.0	10.0	5.0	0.0	99.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 904	99.0	90.0	3.0	7.0	5.0	0.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	C							
		Mean =	97.5	90.0	3.8	10.5	6.8	0.0	98.5
5 Rhythm (1.88 ME)	0.375 lb ai/a	B 201	97.0	90.0	0.0	7.0	5.0	0.0	70.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	B 505	87.0	93.0	0.0	7.0	0.0	0.0	87.0
AMS - Liquid	8.5 lb ai/100 gal	B 705	97.0	90.0	0.0	5.0	3.0	0.0	95.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 905	95.0	90.0	0.0	5.0	3.0	0.0	87.0
AMS - Liquid	8.5 lb ai/100 gal	C							
		Mean =	94.0	90.8	0.0	6.0	2.8	0.0	84.8

# Purdue University

Pest Type	W Weed	W Weed					W Weed
Pest Code	SETFA	AMBTR					SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>					Setaria faberi
Pest Name	Giant foxtail	Giant ragweed					Giant foxtail
Crop Code			GLXMA	GLXMA	GLXMA	GLXMA	
BBCH Scale			BSOY	BSOY	BSOY	BSOY	
Crop Scientific Name			Glycine max	Glycine max	Glycine max	Glycine max	
Crop Name			Soybean	Soybean	Soybean	Soybean	
Rating Date	Jun-13-2014	Jun-13-2014	Jun-13-2014	Jun-13-2014	Jun-13-2014	Jun-13-2014	Jun-19-2014
Rating Type	CONTRO	CONTRO	PHYSTU	PHYLMA	PHYNEC	PHYCHL	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	V3	V3	V3	V3	V3	V3	V4
Pest Stage Majority	3	8					6
Pest Density, Unit	6 FT2	7 YD2					9 FT2
Days After First/Last Applic.	36 14	36 14	36 14	36 14	36 14	36 14	42 20
Trt-Eval Interval							
Plant-Eval Interval	37 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1	43 DP-1
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1	37 DE-1
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	8	9	10	11	12
6 Prefix (5.29 EC)	1.32 lb ai/a	B 202	99.0	85.0	3.0	12.0	9.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	B 501	99.0	83.0	10.0	9.0	5.0
AMS - Liquid	8.5 lb ai/100 gal	B 802	99.0	95.0	0.0	10.0	5.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 1005	99.0	96.0	3.0	10.0	7.0
AMS - Liquid	8.5 lb ai/100 gal	C					
		Mean =	99.0	89.8	4.0	10.3	6.5
7 Sonic (70 WG)	2.1 oz ai/a	A 204	70.0	60.0	0.0	0.0	0.0
Durango DMA (4 SL)	12 oz ae/a	C 401	70.0	60.0	0.0	0.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	C 601	60.0	30.0	0.0	0.0	0.0
		902	75.0	85.0	0.0	3.0	0.0
		Mean =	68.8	58.8	0.0	0.8	0.0
8 Sonic (70 WG)	3.15 oz ai/a	A 205	60.0	50.0	0.0	3.0	0.0
Durango DMA (4 SL)	12 oz ae/a	C 305	70.0	80.0	0.0	0.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	C 604	83.0	75.0	0.0	0.0	0.0
		1004	85.0	84.0	0.0	5.0	0.0
		Mean =	74.5	72.3	0.0	2.0	0.0
9 Sonic (70 WG)	4.2 oz ai/a	A 301	80.0	83.0	0.0	0.0	0.0
Durango DMA (4 SL)	12 oz ae/a	C 304	85.0	84.0	3.0	0.0	3.0
AMS - Liquid	8.5 lb ai/100 gal	C 701	65.0	70.0	0.0	0.0	3.0
		1001	90.0	87.0	0.0	5.0	0.0
		Mean =	80.0	81.0	0.8	1.3	1.5
10 Sonic (70 WG)	2.1 oz ai/a	A 302	50.0	60.0	0.0	3.0	0.0
Durango DMA (4 SL)	12 oz ae/a	C 504	70.0	75.0	0.0	0.0	0.0
FirstRate (84 WG)	0.252 oz ai/a	C 801	95.0	83.0	0.0	3.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	C 1002	60.0	75.0	0.0	0.0	0.0
		Mean =	68.8	73.3	0.0	1.5	0.0
11 Surveil Co-Pack		103	87.0	85.0	0.0	3.0	0.0
FirstRate (84 WG)	0.336 oz ai/a	A 303	60.0	60.0	0.0	0.0	0.0
Valor SX (51 WG)	1.02 oz ai/a	A 603	75.0	80.0	0.0	0.0	0.0
Durango DMA (4 SL)	12 oz ae/a	C 803	87.0	90.0	0.0	0.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	C					
		Mean =	77.3	78.8	0.0	0.8	0.0

# Purdue University

Pest Type	W Weed	W Weed					W Weed
Pest Code	SETFA	AMBTR					SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>					Setaria faberi
Pest Name	Giant foxtail	Giant ragweed					Giant foxtail
Crop Code			GLXMA	GLXMA	GLXMA	GLXMA	
BBCH Scale			BSOY	BSOY	BSOY	BSOY	
Crop Scientific Name			Glycine max	Glycine max	Glycine max	Glycine max	
Crop Name			Soybean	Soybean	Soybean	Soybean	
Rating Date	Jun-13-2014	Jun-13-2014	Jun-13-2014	Jun-13-2014	Jun-13-2014	Jun-13-2014	Jun-19-2014
Rating Type	CONTRO	CONTRO	PHYSTU	PHYLMA	PHYNEC	PHYCHL	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	V3	V3	V3	V3	V3	V3	V4
Pest Stage Majority	3	8					6
Pest Density, Unit	6 FT2	7 YD2					9 FT2
Days After First/Last Applic.	36 14	36 14	36 14	36 14	36 14	36 14	42 20
Trt-Eval Interval							
Plant-Eval Interval	37 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1	43 DP-1
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1	37 DE-1
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	8	9	10	11	12
12 Surveil Co-Pack		203	87.0	85.0	0.0	0.0	0.0
FirstRate (84 WG)	0.504 oz ai/a	A 403	85.0	83.0	0.0	0.0	0.0
Valor SX (51 WG)	1.53 oz ai/a	A 703	85.0	83.0	0.0	0.0	3.0
Durango DMA (4 SL)	12 oz ae/a	C 903	95.0	86.0	0.0	3.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	C					
	Mean =		88.0	84.3	0.0	0.8	0.8
							0.0
							86.8

# Purdue University

Pest Type	W Weed	W Weed			W Weed	W Weed		
Pest Code	AMBTR	CHEAL			SETFA	AMBTR		
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>			Setaria faberi	Ambrosia trifi>		
Pest Name	Giant ragweed	Common lambsqu>			Giant foxtail	Giant ragweed		
Crop Code			GLXMA	GLXMA				
BCH Scale			BSOY	BSOY				
Crop Scientific Name			Glycine max	Glycine max				
Crop Name			Soybean	Soybean				
Rating Date	Jun-19-2014	Jun-19-2014	Jun-19-2014	Jun-19-2014	Jun-25-2014	Jun-25-2014		
Rating Type	CONTRO	CONTRO	PHYSTU	PHYLMA	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	V4	V4	V4	V4				
Pest Stage Majority	20	3			20	38		
Pest Density, Unit	5 YD2	4 FT2			10 FT2	5 YD2		
Days After First/Last Applic.	42 20	42 20	42 20	42 20	48 26	48 26		
Trt-Eval Interval								
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1	43 DP-1	49 DP-1	49 DP-1		
Days After Emergence	37 DE-1	37 DE-1	37 DE-1	37 DE-1	43 DE-1	43 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	15	16	17	18	19	20
1 UNTREATED		101	0.0	0.0	0.0	0.0	0.0	0.0
		405	0.0	0.0	0.0	0.0	0.0	0.0
		702	0.0	0.0	0.0	0.0	0.0	0.0
		805	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 STATEMENT	1.31 lb ai/a	A 102	30.0	60.0	0.0	0.0	30.0	20.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 404	60.0	85.0	0.0	3.0	40.0	20.0
AMS - Liquid	8.5 lb ai/100 gal	C 602	20.0	99.0	0.0	5.0	65.0	75.0
		804	50.0	70.0	0.0	0.0	50.0	20.0
		Mean =	40.0	78.5	0.0	2.0	46.3	33.8
3 PREFIX	1.32 lb ai/a	A 104	83.0	85.0	0.0	0.0	80.0	84.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 502	70.0	99.0	0.0	0.0	70.0	40.0
AMS - Liquid	8.5 lb ai/100 gal	C 704	93.0	99.0	0.0	5.0	87.0	85.0
		901	88.0	95.0	0.0	0.0	86.0	84.0
		Mean =	83.5	94.5	0.0	1.3	80.8	73.3
4 STATEMENT	1.31 lb ai/a	B 105	75.0	65.0	5.0	3.0	95.0	82.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	B 402	86.0	99.0	7.0	10.0	90.0	75.0
AMS - Liquid	8.5 lb ai/100 gal	B 605	85.0	93.0	3.0	7.0	94.0	86.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 904	99.0	99.0	5.0	5.0	90.0	87.0
AMS - Liquid	8.5 lb ai/100 gal	C						
		Mean =	86.3	89.0	5.0	6.3	92.3	82.5
5 Rhythm (1.88 ME)	0.375 lb ai/a	B 201	80.0	99.0	7.0	5.0	89.0	86.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	B 505	92.0	80.0	0.0	0.0	65.0	80.0
AMS - Liquid	8.5 lb ai/100 gal	B 705	95.0	87.0	0.0	7.0	90.0	92.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 905	99.0	40.0	0.0	5.0	87.0	90.0
AMS - Liquid	8.5 lb ai/100 gal	C						
		Mean =	91.5	76.5	1.8	4.3	82.8	87.0

# Purdue University

Pest Type	W Weed	W Weed			W Weed	W Weed		
Pest Code	AMBTR	CHEAL			SETFA	AMBTR		
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>			Setaria faberi	Ambrosia trifi>		
Pest Name	Giant ragweed	Common lambsqu>			Giant foxtail	Giant ragweed		
Crop Code			GLXMA	GLXMA				
BBCH Scale			BSOY	BSOY				
Crop Scientific Name			Glycine max	Glycine max				
Crop Name			Soybean	Soybean				
Rating Date	Jun-19-2014	Jun-19-2014	Jun-19-2014	Jun-19-2014	Jun-25-2014	Jun-25-2014		
Rating Type	CONTRO	CONTRO	PHYSTU	PHYLMA	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	V4	V4	V4	V4				
Pest Stage Majority	20	3			20	38		
Pest Density, Unit	5 YD2	4 FT2			10 FT2	5 YD2		
Days After First/Last Applic.	42 20	42 20	42 20	42 20	48 26	48 26		
Trt-Eval Interval								
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1	43 DP-1	49 DP-1	49 DP-1		
Days After Emergence	37 DE-1	37 DE-1	37 DE-1	37 DE-1	43 DE-1	43 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	15	16	17	18	19	20
6 Prefix (5.29 EC)	1.32 lb ai/a	B 202	90.0	70.0	0.0	3.0	99.0	90.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	B 501	70.0	85.0	5.0	0.0	95.0	75.0
AMS - Liquid	8.5 lb ai/100 gal	B 802	95.0	99.0	3.0	3.0	99.0	87.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 1005	95.0	89.0	5.0	5.0	95.0	92.0
AMS - Liquid	8.5 lb ai/100 gal	C						
		Mean =	87.5	85.8	3.3	2.8	97.0	86.0
7 Sonic (70 WG)	2.1 oz ai/a	A 204	87.0	99.0	0.0	3.0	50.0	70.0
Durango DMA (4 SL)	12 oz ae/a	C 401	55.0	99.0	0.0	0.0	50.0	50.0
AMS - Liquid	8.5 lb ai/100 gal	C 601	50.0	99.0	0.0	0.0	20.0	30.0
		902	70.0	99.0	0.0	0.0	30.0	83.0
		Mean =	65.5	99.0	0.0	0.8	37.5	58.3
8 Sonic (70 WG)	3.15 oz ai/a	A 205	70.0	99.0	3.0	0.0	20.0	80.0
Durango DMA (4 SL)	12 oz ae/a	C 305	65.0	99.0	5.0	3.0	30.0	68.0
AMS - Liquid	8.5 lb ai/100 gal	C 604	65.0	99.0	0.0	0.0	55.0	65.0
		1004	84.0	99.0	3.0	3.0	82.0	84.0
		Mean =	71.0	99.0	2.8	1.5	46.8	74.3
9 Sonic (70 WG)	4.2 oz ai/a	A 301	85.0	99.0	5.0	0.0	60.0	50.0
Durango DMA (4 SL)	12 oz ae/a	C 304	85.0	99.0	10.0	0.0	50.0	70.0
AMS - Liquid	8.5 lb ai/100 gal	C 701	60.0	99.0	5.0	5.0	30.0	50.0
		1001	80.0	99.0	5.0	3.0	70.0	70.0
		Mean =	77.5	99.0	6.3	2.0	52.5	60.0
10 Sonic (70 WG)	2.1 oz ai/a	A 302	50.0	99.0	0.0	0.0	20.0	60.0
Durango DMA (4 SL)	12 oz ae/a	C 504	75.0	99.0	0.0	0.0	70.0	55.0
FirstRate (84 WG)	0.252 oz ai/a	C 801	85.0	99.0	0.0	0.0	90.0	83.0
AMS - Liquid	8.5 lb ai/100 gal	C 1002	40.0	99.0	0.0	0.0	20.0	60.0
		Mean =	62.5	99.0	0.0	0.0	50.0	64.5
11 Surveil Co-Pack		103	86.0	99.0	0.0	0.0	60.0	85.0
FirstRate (84 WG)	0.336 oz ai/a	A 303	70.0	99.0	0.0	0.0	10.0	75.0
Valor SX (51 WG)	1.02 oz ai/a	A 603	81.0	99.0	0.0	3.0	20.0	80.0
Durango DMA (4 SL)	12 oz ae/a	C 803	85.0	99.0	0.0	3.0	50.0	82.0
AMS - Liquid	8.5 lb ai/100 gal	C						
		Mean =	80.5	99.0	0.0	1.5	35.0	80.5

# Purdue University

Pest Type	W Weed	W Weed			W Weed	W Weed		
Pest Code	AMBTR	CHEAL			SETFA	AMBTR		
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>			Setaria faberi	Ambrosia trifi>		
Pest Name	Giant ragweed	Common lambsqu>			Giant foxtail	Giant ragweed		
Crop Code			GLXMA	GLXMA				
BBCH Scale			BSOY	BSOY				
Crop Scientific Name			Glycine max	Glycine max				
Crop Name			Soybean	Soybean				
Rating Date	Jun-19-2014	Jun-19-2014	Jun-19-2014	Jun-19-2014	Jun-25-2014	Jun-25-2014		
Rating Type	CONTRO	CONTRO	PHYSTU	PHYLMA	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	V4	V4	V4	V4				
Pest Stage Majority	20	3			20	38		
Pest Density, Unit	5 YD2	4 FT2			10 FT2	5 YD2		
Days After First/Last Applic.	42 20	42 20	42 20	42 20	48 26	48 26		
Trt-Eval Interval								
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1	43 DP-1	49 DP-1	49 DP-1		
Days After Emergence	37 DE-1	37 DE-1	37 DE-1	37 DE-1	43 DE-1	43 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	15	16	17	18	19	20
12 Surveil Co-Pack		203	88.0	90.0	3.0	0.0	65.0	70.0
FirstRate (84 WG)	0.504 oz ai/a	A 403	75.0	99.0	0.0	0.0	60.0	60.0
Valor SX (51 WG)	1.53 oz ai/a	A 703	86.0	99.0	3.0	0.0	40.0	78.0
Durango DMA (4 SL)	12 oz ae/a	C 903	90.0	99.0	0.0	3.0	85.0	88.0
AMS - Liquid	8.5 lb ai/100 gal	C						
		Mean =	84.8	96.8	1.5	0.8	62.5	74.0

# 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
BBCB Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date	Jun-25-2014	Jul-1-2014	Jul-1-2014	Jul-1-2014	Oct-1-2014
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	YIELD
Rating Unit	%	%	%		bu/ac
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1
Crop Stage Majority					
Pest Stage Majority	14	20	36		
Pest Density, Unit	2 FT2	10 FT2	8 YD2		
Days After First/Last Applic.	48 26	54 32	54 32	54 32	146 91
Trt-Eval Interval					
Plant-Eval Interval	49 DP-1	55 DP-1	55 DP-1	55 DP-1	147 DP-1
Days After Emergence	43 DE-1	49 DE-1	49 DE-1	49 DE-1	141 DE-1
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	21	22	23
1 UNTREATED		101	0.0	0.0	0.0
		405	0.0	0.0	0.0
		702	0.0	0.0	0.0
		805	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0
2 STATEMENT	1.31 lb ai/a	A 102	60.0	90.0	20.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 404	99.0	87.0	20.0
AMS - Liquid	8.5 lb ai/100 gal	C 602	70.0	75.0	40.0
		804	70.0	85.0	20.0
		Mean =	74.8	84.3	25.0
3 PREFIX	1.32 lb ai/a	A 104	99.0	95.0	80.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 502	99.0	80.0	40.0
AMS - Liquid	8.5 lb ai/100 gal	C 704	99.0	87.0	50.0
		901	99.0	87.0	65.0
		Mean =	99.0	87.3	58.8
4 STATEMENT	1.31 lb ai/a	B 105	85.0	99.0	60.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	B 402	99.0	98.0	70.0
AMS - Liquid	8.5 lb ai/100 gal	B 605	85.0	99.0	70.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 904	99.0	94.0	50.0
AMS - Liquid	8.5 lb ai/100 gal	C			0.0
		Mean =	92.0	97.5	62.5
5 Rhythm (1.88 ME)	0.375 lb ai/a	B 201	60.0	97.0	86.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	B 505	50.0	90.0	90.0
AMS - Liquid	8.5 lb ai/100 gal	B 705	87.0	90.0	85.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 905	40.0	80.0	75.0
AMS - Liquid	8.5 lb ai/100 gal	C			0.0
		Mean =	59.3	89.3	84.0
					0.0
					78.45

# 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
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date	Jun-25-2014	Jul-1-2014	Jul-1-2014	Jul-1-2014	Oct-1-2014
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	YIELD
Rating Unit	%	%	%		bu/ac
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1
Crop Stage Majority					
Pest Stage Majority	14	20	36		
Pest Density, Unit	2 FT2	10 FT2	8 YD2		
Days After First/Last Applic.	48 26	54 32	54 32	54 32	146 91
Trt-Eval Interval					
Plant-Eval Interval	49 DP-1	55 DP-1	55 DP-1	55 DP-1	147 DP-1
Days After Emergence	43 DE-1	49 DE-1	49 DE-1	49 DE-1	141 DE-1
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	21	22	23
6 Prefix (5.29 EC)	1.32 lb ai/a	B 202	85.0	97.0	83.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	B 501	60.0	95.0	50.0
AMS - Liquid	8.5 lb ai/100 gal	B 802	80.0	99.0	94.0
Glyfos Xtra (3 SL)	0.75 lb ae/a	C 1005	99.0	90.0	65.0
AMS - Liquid	8.5 lb ai/100 gal	C			
		Mean =	81.0	95.3	73.0
7 Sonic (70 WG)	2.1 oz ai/a	A 204	99.0	55.0	70.0
Durango DMA (4 SL)	12 oz ae/a	C 401	99.0	85.0	40.0
AMS - Liquid	8.5 lb ai/100 gal	C 601	99.0	20.0	30.0
		902	99.0	40.0	75.0
		Mean =	99.0	50.0	53.8
8 Sonic (70 WG)	3.15 oz ai/a	A 205	99.0	50.0	75.0
Durango DMA (4 SL)	12 oz ae/a	C 305	99.0	50.0	65.0
AMS - Liquid	8.5 lb ai/100 gal	C 604	99.0	83.0	50.0
		1004	99.0	80.0	76.0
		Mean =	99.0	65.8	66.5
9 Sonic (70 WG)	4.2 oz ai/a	A 301	99.0	78.0	76.0
Durango DMA (4 SL)	12 oz ae/a	C 304	99.0	75.0	80.0
AMS - Liquid	8.5 lb ai/100 gal	C 701	99.0	40.0	50.0
		1001	99.0	60.0	70.0
		Mean =	99.0	63.3	69.0
10 Sonic (70 WG)	2.1 oz ai/a	A 302	99.0	30.0	50.0
Durango DMA (4 SL)	12 oz ae/a	C 504	99.0	90.0	40.0
FirstRate (84 WG)	0.252 oz ai/a	C 801	99.0	95.0	50.0
AMS - Liquid	8.5 lb ai/100 gal	C 1002	99.0	50.0	40.0
		Mean =	99.0	66.3	45.0
11 Surveil Co-Pack		103	99.0	85.0	85.0
FirstRate (84 WG)	0.336 oz ai/a	A 303	99.0	50.0	73.0
Valor SX (51 WG)	1.02 oz ai/a	A 603	99.0	70.0	80.0
Durango DMA (4 SL)	12 oz ae/a	C 803	99.0	70.0	79.0
AMS - Liquid	8.5 lb ai/100 gal	C			
		Mean =	99.0	68.8	79.3

# 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
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date	Jun-25-2014	Jul-1-2014	Jul-1-2014	Jul-1-2014	Oct-1-2014
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	YIELD
Rating Unit	%	%	%		bu/ac
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1
Crop Stage Majority					
Pest Stage Majority	14	20	36		
Pest Density, Unit	2 FT2	10 FT2	8 YD2		
Days After First/Last Applic.	48 26	54 32	54 32	54 32	146 91
Trt-Eval Interval					
Plant-Eval Interval	49 DP-1	55 DP-1	55 DP-1	55 DP-1	147 DP-1
Days After Emergence	43 DE-1	49 DE-1	49 DE-1	49 DE-1	141 DE-1
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	21	22	23
12 Surveil Co-Pack		203	99.0	85.0	75.0
FirstRate (84 WG)	0.504 oz ai/a	A 403	99.0	90.0	70.0
Valor SX (51 WG)	1.53 oz ai/a	A 703	99.0	65.0	80.0
Durango DMA (4 SL)	12 oz ae/a	C 903	99.0	80.0	65.0
AMS - Liquid	8.5 lb ai/100 gal	C			0.0
	Mean =		99.0	80.0	72.5
					0.0
					74.53

# Purdue University

## TO DETERMINE HERBICIDAL EFFICACY AND SELECTIVITY OF STAMMENT WHEN APPLIED PRE TO SOYBEAN IN 2014

Trial ID: 14S-THP-CTS-54                      Protocol ID: 14S-THP-CTS-54  
 Location: Throckmorton                      Study Director:  
 Project ID: HGLXMAFOMME1401 & 1402      Investigator: Dr. Bill Johnson  
    Sponsor Contact: JIM BARRENTINE

### Pest Type

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

### Pest Code

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

### Crop Code

GLXMA, BSOY, Glycine max, = US

### Rating Type

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

### Rating Unit

% = percent  
 bu/ac = bushels per acre

PLOT = total plot

### Pest Stage Majority

38 = 8 visibly extended internode; G<sub>8</sub> 8 node stage  
 14 = 4 true leaves, leaf pairs or whorls unfolded  
 36 = 6 visibly extended internode; G<sub>6</sub> 6 node stage

YD2 = per square yard

FT2 = per square foot

### Plant-Eval Interval

15 DP-1 = 1 GLXMA May-7-2014  
 21 DP-1 = 1 GLXMA May-7-2014  
 30 DP-1 = 1 GLXMA May-7-2014  
 37 DP-1 = 1 GLXMA May-7-2014  
 43 DP-1 = 1 GLXMA May-7-2014  
 49 DP-1 = 1 GLXMA May-7-2014  
 55 DP-1 = 1 GLXMA May-7-2014  
 147 DP-1 = 1 GLXMA May-7-2014

# Purdue University

## TO DETERMINE HERBICIDAL EFFICACY AND SELECTIVITY OF STATEMENT WHEN APPLIED PRE TO SOYBEAN IN 2014

Trial ID: 14S-THP-CTS-54      Protocol ID: 14S-THP-CTS-54  
 Location: Throckmorton      Study Director:  
 Project ID: HGLXMAFOMME1401 & 1402      Investigator: Dr. Bill Johnson  
 Sponsor Contact: JIM BARRENTINE

Pest Type		W Weed AMBTR	W Weed SETFA					W Weed SETFA		
Pest Code		Ambrosia trifi>	Setaria faberi					Setaria faberi		
Pest Scientific Name		Giant ragweed	Giant foxtail					Giant foxtail		
Pest Name										
Crop Code	GLXMA			GLXMA	GLXMA	GLXMA	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-28-2014	May-28-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-13-2014		
Rating Type	STASUB	CONTRO	CONTRO	PHYSTU	PHYLMA	PHYNEC	PHYCHL	CONTRO		
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		V1	V1	V2	V2	V2	V2	V3		
Pest Stage Majority		4	3					3		
Pest Density, Unit		5 YD2	2 YD2					6 FT2		
Days After First/Last Applic.	14 14	20 20	20 20	29 7	29 7	29 7	29 7	36 14		
Trt-Eval Interval	14 DA-A									
Plant-Eval Interval	15 DP-1	21 DP-1	21 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1	37 DP-1		
Days After Emergence	9 DE-1	15 DE-1	15 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	31 DE-1		
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code	1	2	3	4	5	6	7	8
1 UNTREATED			75.0 a	0.0 b	0.0 b	0.0 c	0.0 c	0.0 c	0.0 a	0.0 d
2 STATEMENT	1.31 lb ai/a	A	73.8 a	61.3 a	88.5 a	0.0 c	0.0 c	0.0 c	0.0 a	75.5 bc
Glyfos Xtra (3 SL)	0.75 lb ae/a	C								
AMS - Liquid	8.5 lb ai/100 gal	C								
3 PREFIX	1.32 lb ai/a	A	83.8 a	82.5 a	90.5 a	0.0 c	1.8 c	0.0 c	2.0 a	89.5 abc
Glyfos Xtra (3 SL)	0.75 lb ae/a	C								
AMS - Liquid	8.5 lb ai/100 gal	C								
4 STATEMENT	1.31 lb ai/a	B	81.3 a	13.8 b	0.0 b	7.3 a	13.8 a	7.3 ab	0.0 a	97.5 a
Glyfos Xtra (3 SL)	0.75 lb ae/a	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
Glyfos Xtra (3 SL)	0.75 lb ae/a	C								
AMS - Liquid	8.5 lb ai/100 gal	C								
5 Rhythm (1.88 ME)	0.375 lb ai/a	B	74.3 a	17.5 b	12.5 b	3.3 bc	9.3 b	5.5 b	0.0 a	94.0 ab
Glyfos Xtra (3 SL)	0.75 lb ae/a	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
Glyfos Xtra (3 SL)	0.75 lb ae/a	C								
AMS - Liquid	8.5 lb ai/100 gal	C								
6 Prefix (5.29 EC)	1.32 lb ai/a	B	70.0 a	12.5 b	15.0 b	7.3 a	15.0 a	8.8 a	0.0 a	99.0 a
Glyfos Xtra (3 SL)	0.75 lb ae/a	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
Glyfos Xtra (3 SL)	0.75 lb ae/a	C								
AMS - Liquid	8.5 lb ai/100 gal	C								
7 Sonic (70 WG)	2.1 oz ai/a	A	61.3 a	80.0 a	91.3 a	2.8 bc	0.8 c	0.0 c	0.0 a	68.8 c
Durango DMA (4 SL)	12 oz ae/a	C								
AMS - Liquid	8.5 lb ai/100 gal	C								
8 Sonic (70 WG)	3.15 oz ai/a	A	58.8 a	86.3 a	84.0 a	0.0 c	2.5 c	0.0 c	0.0 a	74.5 bc
Durango DMA (4 SL)	12 oz ae/a	C								
AMS - Liquid	8.5 lb ai/100 gal	C								

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 AMBTR Ambrosia trifida Giant ragweed	W Weed SETFA Setaria faberi Giant foxtail					W Weed SETFA Setaria faberi Giant foxtail		
Pest Code										
Pest Scientific Name										
Pest Name										
Crop Code	GLXMA			GLXMA	GLXMA	GLXMA	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-28-2014	May-28-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-6-2014	Jun-13-2014		
Rating Type	STASUB	CONTRO	CONTRO	PHYSTU	PHYLMA	PHYNEC	PHYCHL	CONTRO		
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		V1	V1	V2	V2	V2	V2	V3		
Pest Stage Majority		4	3					3		
Pest Density, Unit		5 YD2	2 YD2					6 FT2		
Days After First/Last Applic.	14 14	20 20	20 20	29 7	29 7	29 7	29 7	36 14		
Trt-Eval Interval	14 DA-A									
Plant-Eval Interval	15 DP-1	21 DP-1	21 DP-1	30 DP-1	30 DP-1	30 DP-1	30 DP-1	37 DP-1		
Days After Emergence	9 DE-1	15 DE-1	15 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	31 DE-1		
Trt Treatment										
No. Name										
Rate										
Unit										
Appl Code										
1										
2										
3										
4										
5										
6										
7										
8										
9 Sonic (70 WG)	4.2 oz ai/a	A	35.0 b	92.5 a	96.0 a	4.3 ab	0.8 c	0.0 c	0.0 a	80.0 abc
Durango DMA (4 SL)	12 oz ae/a	C								
AMS - Liquid	8.5 lb ai/100 gal	C								
10 Sonic (70 WG)	2.1 oz ai/a	A	68.8 a	76.3 a	77.5 a	0.8 bc	1.3 c	0.0 c	0.0 a	68.8 c
Durango DMA (4 SL)	12 oz ae/a	C								
FirstRate (84 WG)	0.252 oz ai/a	C								
AMS - Liquid	8.5 lb ai/100 gal	C								
11 Surveil Co-Pack			70.0 a	91.3 a	91.8 a	0.8 bc	1.5 c	1.3 c	0.8 a	77.3 bc
FirstRate (84 WG)	0.336 oz ai/a	A								
Valor SX (51 WG)	1.02 oz ai/a	A								
Durango DMA (4 SL)	12 oz ae/a	C								
AMS - Liquid	8.5 lb ai/100 gal	C								
12 Surveil Co-Pack			62.5 a	93.0 a	91.8 a	0.8 bc	2.3 c	0.0 c	0.8 a	88.0 abc
FirstRate (84 WG)	0.504 oz ai/a	A								
Valor SX (51 WG)	1.53 oz ai/a	A								
Durango DMA (4 SL)	12 oz ae/a	C								
AMS - Liquid	8.5 lb ai/100 gal	C								
LSD (P=.05)			16.13	23.23	19.10	2.51	3.24	1.77	1.37	13.24
Standard Deviation			11.17	16.09	13.23	1.74	2.25	1.22	0.95	9.17
CV			16.46	27.32	21.48	77.3	55.29	64.51	325.54	12.05
Bartlett's X2			13.253	35.891	32.716	2.5	9.425	0.316	1.009	16.803
P(Bartlett's X2)			0.277	0.001*	0.001*	0.927	0.308	0.957	0.604	0.052
Replicate F			1.705	1.722	1.401	0.239	1.237	2.651	0.647	2.068
Replicate Prob(F)			0.1850	0.1816	0.2599	0.8687	0.3119	0.0649	0.5904	0.1234
Treatment F			5.258	20.743	38.175	9.886	23.124	28.644	1.655	32.622
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.1287	0.0001

# Purdue University

Pest Type						W Weed			W Weed	W Weed		
Pest Code						AMBTR			SETFA	AMBTR		
Pest Scientific Name						Ambrosia trifi>			Setaria faberi	Ambrosia trifi>		
Pest Name						Giant ragweed			Giant foxtail	Giant ragweed		
Crop Code						GLXMA	GLXMA	GLXMA	GLXMA			
BBCB Scale						BSOY	BSOY	BSOY	BSOY			
Crop Scientific Name						Glycine max	Glycine max	Glycine max	Glycine max			
Crop Name						Soybean	Soybean	Soybean	Soybean			
Rating Date						Jun-13-2014	Jun-13-2014	Jun-13-2014	Jun-13-2014	Jun-19-2014		
Rating Type						CONTRO	PHYSTU	PHYLMA	PHYNEC	PHYCHL		
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						V3	V3	V3	V3	V4		
Pest Stage Majority						8				6		
Pest Density, Unit						7 YD2				9 FT2		
Days After First/Last Applic.						36 14	36 14	36 14	36 14	42 20		
Trt-Eval Interval												
Plant-Eval Interval						37 DP-1	37 DP-1	37 DP-1	37 DP-1	43 DP-1		
Days After Emergence						31 DE-1	31 DE-1	31 DE-1	31 DE-1	37 DE-1		
Trt Treatment	Rate	Appl										
No. Name	Rate Unit	Code	9	10	11	12	13	14	15			
1 UNTREATED			0.0 c	0.0 b	0.0 c	0.0 b	0.0 a	0.0 b	0.0 c			
2 STATEMENT	1.31 lb ai/a	A	32.5 b	0.0 b	0.0 c	0.8 b	0.0 a	75.8 a	40.0 b			
Glyphos Xtra (3 SL)	0.75 lb ae/a	C										
AMS - Liquid	8.5 lb ai/100 gal	C										
3 PREFIX	1.32 lb ai/a	A	75.0 a	0.0 b	3.0 bc	0.0 b	1.3 a	89.8 a	83.5 a			
Glyphos Xtra (3 SL)	0.75 lb ae/a	C										
AMS - Liquid	8.5 lb ai/100 gal	C										
4 STATEMENT	1.31 lb ai/a	B	90.0 a	3.8 a	10.5 a	6.8 a	0.0 a	98.5 a	86.3 a			
Glyphos Xtra (3 SL)	0.75 lb ae/a	B										
AMS - Liquid	8.5 lb ai/100 gal	B										
Glyphos Xtra (3 SL)	0.75 lb ae/a	C										
AMS - Liquid	8.5 lb ai/100 gal	C										
5 Rhythm (1.88 ME)	0.375 lb ai/a	B	90.8 a	0.0 b	6.0 b	2.8 b	0.0 a	84.8 a	91.5 a			
Glyphos Xtra (3 SL)	0.75 lb ae/a	B										
AMS - Liquid	8.5 lb ai/100 gal	B										
Glyphos Xtra (3 SL)	0.75 lb ae/a	C										
AMS - Liquid	8.5 lb ai/100 gal	C										
6 Prefix (5.29 EC)	1.32 lb ai/a	B	89.8 a	4.0 a	10.3 a	6.5 a	0.0 a	97.5 a	87.5 a			
Glyphos Xtra (3 SL)	0.75 lb ae/a	B										
AMS - Liquid	8.5 lb ai/100 gal	B										
Glyphos Xtra (3 SL)	0.75 lb ae/a	C										
AMS - Liquid	8.5 lb ai/100 gal	C										
7 Sonic (70 WG)	2.1 oz ai/a	A	58.8 a	0.0 b	0.8 c	0.0 b	0.0 a	68.3 a	65.5 a			
Durango DMA (4 SL)	12 oz ae/a	C										
AMS - Liquid	8.5 lb ai/100 gal	C										
8 Sonic (70 WG)	3.15 oz ai/a	A	72.3 a	0.0 b	2.0 c	0.0 b	0.0 a	68.0 a	71.0 a			
Durango DMA (4 SL)	12 oz ae/a	C										
AMS - Liquid	8.5 lb ai/100 gal	C										

# Purdue University

Pest Type	W Weed					W Weed	W Weed		
Pest Code	AMBTR					SETFA	AMBTR		
Pest Scientific Name	Ambrosia trifi>					Setaria faberi	Ambrosia trifi>		
Pest Name	Giant ragweed					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-13-2014	Jun-13-2014	Jun-13-2014	Jun-13-2014	Jun-13-2014	Jun-19-2014	Jun-19-2014		
Rating Type	CONTRO	PHYSTU	PHYLMA	PHYNEC	PHYCHL	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	V3	V3	V3	V3	V3	V4	V4		
Pest Stage Majority	8					6	20		
Pest Density, Unit	7 YD2					9 FT2	5 YD2		
Days After First/Last Applic.	36 14	36 14	36 14	36 14	36 14	42 20	42 20		
Trt-Eval Interval									
Plant-Eval Interval	37 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1	43 DP-1	43 DP-1		
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1	37 DE-1	37 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	9	10	11	12	13	14	15
9 Sonic (70 WG)	4.2 oz ai/a	A	81.0 a	0.8 b	1.3 c	1.5 b	0.8 a	68.3 a	77.5 a
Durango DMA (4 SL)	12 oz ae/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
10 Sonic (70 WG)	2.1 oz ai/a	A	73.3 a	0.0 b	1.5 c	0.0 b	0.0 a	64.3 a	62.5 a
Durango DMA (4 SL)	12 oz ae/a	C							
FirstRate (84 WG)	0.252 oz ai/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
11 Surveil Co-Pack			78.8 a	0.0 b	0.8 c	0.0 b	0.0 a	62.5 a	80.5 a
FirstRate (84 WG)	0.336 oz ai/a	A							
Valor SX (51 WG)	1.02 oz ai/a	A							
Durango DMA (4 SL)	12 oz ae/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
12 Surveil Co-Pack			84.3 a	0.0 b	0.8 c	0.8 b	0.0 a	86.8 a	84.8 a
FirstRate (84 WG)	0.504 oz ai/a	A							
Valor SX (51 WG)	1.53 oz ai/a	A							
Durango DMA (4 SL)	12 oz ae/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
LSD (P=.05)			23.11	2.10	3.03	1.96	1.23	21.95	17.84
Standard Deviation			16.01	1.46	2.10	1.35	0.85	15.20	12.36
CV			23.25	205.49	68.49	85.52	511.68	21.11	17.86
Bartlett's X2			43.405	2.735	8.154	0.94	0.741	36.415	8.067
P(Bartlett's X2)			0.001*	0.255	0.519	0.967	0.389	0.001*	0.622
Replicate F			0.558	2.766	0.043	0.455	0.688	0.148	0.635
Replicate Prob(F)			0.6466	0.0573	0.9881	0.7158	0.5661	0.9303	0.5980
Treatment F			11.466	4.223	12.998	13.620	0.896	11.708	17.784
Treatment Prob(F)			0.0001	0.0006	0.0001	0.0001	0.5540	0.0001	0.0001

# Purdue University

Pest Type	W Weed			W Weed	W Weed	W Weed	W Weed		
Pest Code	CHEAL			SETFA	AMBTR	CHEAL	SETFA		
Pest Scientific Name	Chenopodium al>			Setaria faberi	Ambrosia trifi>	Chenopodium al>	Setaria faberi		
Pest Name	Common lambsqu>			Giant foxtail	Giant ragweed	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-19-2014	Jun-19-2014	Jun-19-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014	Jul-1-2014		
Rating Type	CONTRO	PHYSTU	PHYLMA	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	V4	V4	V4						
Pest Stage Majority	3			20	38	14	20		
Pest Density, Unit	4 FT2			10 FT2	5 YD2	2 FT2	10 FT2		
Days After First/Last Applic.	42 20	42 20	42 20	48 26	48 26	48 26	54 32		
Trt-Eval Interval									
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1	49 DP-1	49 DP-1	49 DP-1	55 DP-1		
Days After Emergence	37 DE-1	37 DE-1	37 DE-1	43 DE-1	43 DE-1	43 DE-1	49 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	16	17	18	19	20	21	22
1 UNTREATED			0.0 b	0.0 c	0.0 b	0.0 d	0.0 c	0.0 d	0.0 c
2 STATEMENT	1.31 lb ai/a	A	78.5 a	0.0 c	2.0 b	46.3 bc	33.8 b	74.8 b	84.3 ab
Glyfos Xtra (3 SL)	0.75 lb ae/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
3 PREFIX	1.32 lb ai/a	A	94.5 a	0.0 c	1.3 b	80.8 ab	73.3 a	99.0 a	87.3 a
Glyfos Xtra (3 SL)	0.75 lb ae/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
4 STATEMENT	1.31 lb ai/a	B	89.0 a	5.0 ab	6.3 a	92.3 a	82.5 a	92.0 a	97.5 a
Glyfos Xtra (3 SL)	0.75 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
Glyfos Xtra (3 SL)	0.75 lb ae/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
5 Rhythm (1.88 ME)	0.375 lb ai/a	B	76.5 a	1.8 c	4.3 ab	82.8 ab	87.0 a	59.3 c	89.3 a
Glyfos Xtra (3 SL)	0.75 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
Glyfos Xtra (3 SL)	0.75 lb ae/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
6 Prefix (5.29 EC)	1.32 lb ai/a	B	85.8 a	3.3 bc	2.8 b	97.0 a	86.0 a	81.0 ab	95.3 a
Glyfos Xtra (3 SL)	0.75 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
Glyfos Xtra (3 SL)	0.75 lb ae/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
7 Sonic (70 WG)	2.1 oz ai/a	A	99.0 a	0.0 c	0.8 b	37.5 c	58.3 a	99.0 a	50.0 b
Durango DMA (4 SL)	12 oz ae/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
8 Sonic (70 WG)	3.15 oz ai/a	A	99.0 a	2.8 bc	1.5 b	46.8 bc	74.3 a	99.0 a	65.8 ab
Durango DMA (4 SL)	12 oz ae/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							

# Purdue University

Pest Type	W Weed			W Weed	W Weed	W Weed	W Weed		
Pest Code	CHEAL			SETFA	AMBTR	CHEAL	SETFA		
Pest Scientific Name	Chenopodium al>			Setaria faberi	Ambrosia trifi>	Chenopodium al>	Setaria faberi		
Pest Name	Common lambsqu>			Giant foxtail	Giant ragweed	Common lambsqu>	Giant foxtail		
Crop Code		GLXMA	GLXMA						
BBCH Scale		BSOY	BSOY						
Crop Scientific Name		Glycine max	Glycine max						
Crop Name		Soybean	Soybean						
Rating Date	Jun-19-2014	Jun-19-2014	Jun-19-2014	Jun-25-2014	Jun-25-2014	Jun-25-2014	Jul-1-2014		
Rating Type	CONTRO	PHYSTU	PHYLMA	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	V4	V4	V4						
Pest Stage Majority	3			20	38	14	20		
Pest Density, Unit	4 FT2			10 FT2	5 YD2	2 FT2	10 FT2		
Days After First/Last Applic.	42 20	42 20	42 20	48 26	48 26	48 26	54 32		
Trt-Eval Interval									
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1	49 DP-1	49 DP-1	49 DP-1	55 DP-1		
Days After Emergence	37 DE-1	37 DE-1	37 DE-1	43 DE-1	43 DE-1	43 DE-1	49 DE-1		
Trt Treatment									
No. Name	16	17	18	19	20	21	22		
9 Sonic (70 WG)	4.2 oz ai/a	A	99.0 a	6.3 a	2.0 b	52.5 bc	60.0 a	99.0 a	63.3 ab
Durango DMA (4 SL)	12 oz ae/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
10 Sonic (70 WG)	2.1 oz ai/a	A	99.0 a	0.0 c	0.0 b	50.0 bc	64.5 a	99.0 a	66.3 ab
Durango DMA (4 SL)	12 oz ae/a	C							
FirstRate (84 WG)	0.252 oz ai/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
11 Surveil Co-Pack			99.0 a	0.0 c	1.5 b	35.0 c	80.5 a	99.0 a	68.8 ab
FirstRate (84 WG)	0.336 oz ai/a	A							
Valor SX (51 WG)	1.02 oz ai/a	A							
Durango DMA (4 SL)	12 oz ae/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
12 Surveil Co-Pack			96.8 a	1.5 c	0.8 b	62.5 abc	74.0 a	99.0 a	80.0 ab
FirstRate (84 WG)	0.504 oz ai/a	A							
Valor SX (51 WG)	1.53 oz ai/a	A							
Durango DMA (4 SL)	12 oz ae/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
LSD (P=.05)	15.19	2.44	2.85	26.50	19.30	13.80	22.82		
Standard Deviation	10.52	1.69	1.97	18.35	13.37	9.55	15.80		
CV	12.43	98.75	102.89	32.24	20.72	11.47	22.38		
Bartlett's X2	9.386	2.343	3.302	25.729	19.883	2.19	28.05		
P(Bartlett's X2)	0.095	0.80	0.951	0.004*	0.03*	0.534	0.002*		
Replicate F	1.818	0.947	2.071	0.571	2.638	0.157	0.398		
Replicate Prob(F)	0.1630	0.4293	0.1229	0.6380	0.0658	0.9244	0.7551		
Treatment F	28.132	6.705	3.347	9.178	14.197	37.431	11.270		
Treatment Prob(F)	0.0001	0.0001	0.0035	0.0001	0.0001	0.0001	0.0001		

# Purdue University

Pest Type				W Weed		
Pest Code				AMBTR		
Pest Scientific Name				Ambrosia trifi>		
Pest Name				Giant ragweed		
Crop Code					GLXMA	GLXMA
BBCB Scale					BSOY	BSOY
Crop Scientific Name					Glycine max	Glycine max
Crop Name					Soybean	Soybean
Rating Date				Jul-1-2014	Jul-1-2014	Oct-1-2014
Rating Type				CONTRO	PHYGEN	YIELD
Rating Unit				%		bu/ac
Sample Size, Unit				1 PLOT		
Number of Subsamples				1	1	1
Crop Stage Majority						
Pest Stage Majority				36		
Pest Density, Unit				8 YD2		
Days After First/Last Applic.				54 32	54 32	146 91
Trt-Eval Interval						
Plant-Eval Interval				55 DP-1	55 DP-1	147 DP-1
Days After Emergence				49 DE-1	49 DE-1	141 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		23	24	25
1 UNTREATED				0.0 e	0.0 a	39.03 b
2 STATEMENT	1.31 lb ai/a	A		25.0 d	0.0 a	62.68 a
Glyfos Xtra (3 SL)	0.75 lb ae/a	C				
AMS - Liquid	8.5 lb ai/100 gal	C				
3 PREFIX	1.32 lb ai/a	A		58.8 abc	0.0 a	79.18 a
Glyfos Xtra (3 SL)	0.75 lb ae/a	C				
AMS - Liquid	8.5 lb ai/100 gal	C				
4 STATEMENT	1.31 lb ai/a	B		62.5 abc	0.0 a	79.98 a
Glyfos Xtra (3 SL)	0.75 lb ae/a	B				
AMS - Liquid	8.5 lb ai/100 gal	B				
Glyfos Xtra (3 SL)	0.75 lb ae/a	C				
AMS - Liquid	8.5 lb ai/100 gal	C				
5 Rhythm (1.88 ME)	0.375 lb ai/a	B		84.0 a	0.0 a	78.45 a
Glyfos Xtra (3 SL)	0.75 lb ae/a	B				
AMS - Liquid	8.5 lb ai/100 gal	B				
Glyfos Xtra (3 SL)	0.75 lb ae/a	C				
AMS - Liquid	8.5 lb ai/100 gal	C				
6 Prefix (5.29 EC)	1.32 lb ai/a	B		73.0 ab	0.0 a	79.55 a
Glyfos Xtra (3 SL)	0.75 lb ae/a	B				
AMS - Liquid	8.5 lb ai/100 gal	B				
Glyfos Xtra (3 SL)	0.75 lb ae/a	C				
AMS - Liquid	8.5 lb ai/100 gal	C				
7 Sonic (70 WG)	2.1 oz ai/a	A		53.8 bc	0.0 a	63.85 a
Durango DMA (4 SL)	12 oz ae/a	C				
AMS - Liquid	8.5 lb ai/100 gal	C				
8 Sonic (70 WG)	3.15 oz ai/a	A		66.5 abc	0.0 a	67.35 a
Durango DMA (4 SL)	12 oz ae/a	C				
AMS - Liquid	8.5 lb ai/100 gal	C				

# Purdue University

Pest Type	W Weed			
Pest Code	AMBTR			
Pest Scientific Name	Ambrosia trifi>			
Pest Name	Giant ragweed			
Crop Code		GLXMA	GLXMA	
BBCH Scale		BSOY	BSOY	
Crop Scientific Name		Glycine max	Glycine max	
Crop Name		Soybean	Soybean	
Rating Date	Jul-1-2014	Jul-1-2014	Oct-1-2014	
Rating Type	CONTRO	PHYGEN	YIELD	
Rating Unit	%		bu/ac	
Sample Size, Unit	1 PLOT			
Number of Subsamples	1	1	1	
Crop Stage Majority				
Pest Stage Majority	36			
Pest Density, Unit	8 YD2			
Days After First/Last Applic.	54 32	54 32	146 91	
Trt-Eval Interval				
Plant-Eval Interval	55 DP-1	55 DP-1	147 DP-1	
Days After Emergence	49 DE-1	49 DE-1	141 DE-1	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	23	24 25
9 Sonic (70 WG)	4.2 oz ai/a	A	69.0 abc	0.0 a 64.00 a
Durango DMA (4 SL)	12 oz ae/a	C		
AMS - Liquid	8.5 lb ai/100 gal	C		
10 Sonic (70 WG)	2.1 oz ai/a	A	45.0 c	0.0 a 72.05 a
Durango DMA (4 SL)	12 oz ae/a	C		
FirstRate (84 WG)	0.252 oz ai/a	C		
AMS - Liquid	8.5 lb ai/100 gal	C		
11 Surveil Co-Pack			79.3 ab	0.0 a 75.45 a
FirstRate (84 WG)	0.336 oz ai/a	A		
Valor SX (51 WG)	1.02 oz ai/a	A		
Durango DMA (4 SL)	12 oz ae/a	C		
AMS - Liquid	8.5 lb ai/100 gal	C		
12 Surveil Co-Pack			72.5 ab	0.0 a 74.53 a
FirstRate (84 WG)	0.504 oz ai/a	A		
Valor SX (51 WG)	1.53 oz ai/a	A		
Durango DMA (4 SL)	12 oz ae/a	C		
AMS - Liquid	8.5 lb ai/100 gal	C		
LSD (P=.05)			17.47	0.00 11.532
Standard Deviation			12.10	0.00 7.987
CV			21.07	0.0 11.46
Bartlett's X2			13.572	0.0 3.735
P(Bartlett's X2)			0.193	. 0.977
Replicate F			1.484	0.000 1.864
Replicate Prob(F)			0.2370	1.0000 0.1556
Treatment F			15.922	0.000 8.512
Treatment Prob(F)			0.0001	1.0000 0.0001

# Purdue University

## TO DETERMINE HERBICIDAL EFFICACY AND SELECTIVITY OF STAMMENT WHEN APPLIED PRE TO SOYBEAN IN 2014

Trial ID: 14S-THP-CTS-54                      Protocol ID: 14S-THP-CTS-54  
 Location: Throckmorton                      Study Director:  
 Project ID: HGLXMAFOMME1401 & 1402                      Investigator: Dr. Bill Johnson  
    Sponsor Contact: JIM BARRENTINE

### Pest Type

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

### Pest Code

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

### Crop Code

GLXMA, BSOY, Glycine max, = US

### Rating Type

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

### Rating Unit

% = percent  
 bu/ac = bushels per acre

PLOT = total plot

### Pest Stage Majority

38 = 8 visibly extended internode; G<sub>8</sub> 8 node stage  
 14 = 4 true leaves, leaf pairs or whorls unfolded  
 36 = 6 visibly extended internode; G<sub>6</sub> 6 node stage

YD2 = per square yard

FT2 = per square foot

### Plant-Eval Interval

15 DP-1 = 1 GLXMA May-7-2014  
 21 DP-1 = 1 GLXMA May-7-2014  
 30 DP-1 = 1 GLXMA May-7-2014  
 37 DP-1 = 1 GLXMA May-7-2014  
 43 DP-1 = 1 GLXMA May-7-2014  
 49 DP-1 = 1 GLXMA May-7-2014  
 55 DP-1 = 1 GLXMA May-7-2014  
 147 DP-1 = 1 GLXMA May-7-2014