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Panther + Metribuzin Ratio Study

Trial ID: 13S-THP-CTS-49 Protocol ID: 13S-THP-CTS-49
 Location: Throckmorton Study Director:
 Project ID: H 2013 102 IN Investigator: Dr. Bill Johnson
 Sponsor Contact: Amvac - Bill O'Neal

General Trial Information

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

Discipline: H herbicide
Trial Status: E established
Initiation Date: Mar-28-2013

Trial Location

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

Personnel

Study Director: Bill Johnson
Investigator: Dr. Bill Johnson **Title:** Professor
Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA
Postal Code: 47907 **E-mail:** 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 AG29-33 **Description:** RR2
BBCH Scale: BSOY **Planting Date:** May-16-2013
Planting Method: SEEDED seeded **Rate, Unit:** 130000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN
Soil Moisture: SLIWET slightly wet **Soil Temperature, Unit:** 68 F
Emergence Date: May-22-2013

Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

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

Pest 3 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

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

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Site and Design	
Plot Width, Unit: 10 FT Plot Length, Unit: 30 FT Plot Area, Unit: 300 FT ² Replications: 4	Site Type: FIELD field Experimental Unit: 1 PLOT plot Tillage Type: CONTIL conventional-till Study Design: RACOB� Randomized Complete Block (RCB) Untreated Arrangement: INCLUDED single control randomized in each block

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

Application Description		
	A	B
Application Date:	May-16-2013	Jun-14-2013
Time of Day:	11 AM	9:45 AM
Application Method:	SPRAY	SPRAY
Application Timing:	ATPLAN	MIPOWE
Application Placement:	SOIL	FOLIAR
Applied By:	MW	MW
Air Temperature, Unit:	68 F	85 F
% Relative Humidity:	73	54
Wind Velocity, Unit:	3 MPH	3.6 MPH
Wind Direction:	E	NW
Dew Presence (Y/N):	Y yes	N no
Soil Temperature, Unit:	68 F	84 F
Soil Moisture:	SLIWET	SLIWET
% Cloud Cover:	80	20

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

Pest Stage At Each Application		
	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Height Minimum, Maximum:		1.5 5
Density, Unit:		3 YD ²
Pest 2 Code, Type, Scale:	SETFA W	SETFA W
Height Minimum, Maximum:		1 5
Density, Unit:		8 FT ²
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:		1 IN
Density, Unit:		1 YD ²
Pest 4 Code, Type, Scale:	ABUTH W	ABUTH W
Height Minimum, Maximum:		1 3
Density, Unit:		2 YD ²

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Application Equipment

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

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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	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check												101	405	702	805
2	Panther (51 WDG)	51 %		WG	1.02 oz ai/a		2 oz wt/a		ATPLAN	A		1.872 g/mx	102	404	601	804
	Durango DMA (4 SL)	4 LBAE/GAL		SL	0.75 lb ae/a		24 fl oz/a		MIPOWE	B	4-6" Weeds	23.43 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		MIPOWE	B	4-6" Weeds	62.49 ml/mx				
3	Panther (51 WDG)	51 %		WG	1.53 oz ai/a		3 oz wt/a		ATPLAN	A		2.808 g/mx	104	502	704	901
	Durango DMA (4 SL)	4 LBAE/GAL		SL	0.75 lb ae/a		24 fl oz/a		MIPOWE	B	4-6" Weeds	23.43 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		MIPOWE	B	4-6" Weeds	62.49 ml/mx				
4	Sencor 75DF	75 %AW/W		DF	7.5 oz ai/a		10 oz wt/a		ATPLAN	A		9.361 g/mx	105	402	605	904
	Durango DMA (4 SL)	4 LBAE/GAL		SL	0.75 lb ae/a		24 fl oz/a		MIPOWE	B	4-6" Weeds	23.43 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		MIPOWE	B	4-6" Weeds	62.49 ml/mx				
5	Panther (51 WDG)	51 %		WG	1.02 oz ai/a		2 oz wt/a		ATPLAN	A		1.872 g/mx	201	505	705	905
	Sencor 75DF	75 %AW/W		DF	3.75 oz ai/a		5 oz wt/a		ATPLAN	A		4.681 g/mx				
	Durango DMA (4 SL)	4 LBAE/GAL		SL	0.75 lb ae/a		24 fl oz/a		MIPOWE	B	4-6" Weeds	23.43 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		MIPOWE	B	4-6" Weeds	62.49 ml/mx				
6	Panther (51 WDG)	51 %		WG	1.02 oz ai/a		2 oz wt/a		ATPLAN	A		1.872 g/mx	202	501	802	1005
	Sencor 75DF	75 %AW/W		DF	6 oz ai/a		8 oz wt/a		ATPLAN	A		7.489 g/mx				
	Durango DMA (4 SL)	4 LBAE/GAL		SL	0.75 lb ae/a		24 fl oz/a		MIPOWE	B	4-6" Weeds	23.43 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		MIPOWE	B	4-6" Weeds	62.49 ml/mx				
7	Panther (51 WDG)	51 %		WG	1.53 oz ai/a		3 oz wt/a		ATPLAN	A		2.808 g/mx	204	401	602	902
	Sencor 75DF	75 %AW/W		DF	5.6 oz ai/a		7.5 oz wt/a		ATPLAN	A		6.99 g/mx				
	Durango DMA (4 SL)	4 LBAE/GAL		SL	0.75 lb ae/a		24 fl oz/a		MIPOWE	B	4-6" Weeds	23.43 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		MIPOWE	B	4-6" Weeds	62.49 ml/mx				
8	Panther (51 WDG)	51 %		WG	1.02 oz ai/a		2 oz wt/a		ATPLAN	A		1.872 g/mx	205	305	604	1004
	Sencor 75DF	75 %AW/W		DF	7.5 oz ai/a		10 oz wt/a		ATPLAN	A		9.361 g/mx				
	Durango DMA (4 SL)	4 LBAE/GAL		SL	0.75 lb ae/a		24 fl oz/a		MIPOWE	B	4-6" Weeds	23.43 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		MIPOWE	B	4-6" Weeds	62.49 ml/mx				
9	Panther (51 WDG)	51 %		WG	1.02 oz ai/a		2 oz wt/a		ATPLAN	A		1.872 g/mx	301	304	701	1001
	Cloak (75DF)	75 %AW/W		DF	2.63 oz ai/a		3.5 oz wt/a		ATPLAN	A		3.283 g/mx				
	Durango DMA (4 SL)	4 LBAE/GAL		SL	0.75 lb ae/a		24 fl oz/a		MIPOWE	B	4-6" Weeds	23.43 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		MIPOWE	B	4-6" Weeds	62.49 ml/mx				
10	Valor SX (51 WG)	51 %		WG	1.05 oz ai/a		2.06 oz wt/a		ATPLAN	A		1.927 g/mx	302	504	801	1002
	Classic	25 %AW/W		DF	0.3605 oz ai/a		1.44 oz wt/a		ATPLAN	A		1.35 g/mx				
	Durango DMA (4 SL)	4 LBAE/GAL		SL	0.75 lb ae/a		24 fl oz/a		MIPOWE	B	4-6" Weeds	23.43 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		MIPOWE	B	4-6" Weeds	62.49 ml/mx				
11	Authority MTZ (45 WG)	45 %		WG	4.95 oz ai/a		11 oz wt/a		ATPLAN	A		10.3 g/mx	103	303	603	803
	Durango DMA (4 SL)	4 LBAE/GAL		SL	0.75 lb ae/a		24 fl oz/a		MIPOWE	B	4-6" Weeds	23.43 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		MIPOWE	B	4-6" Weeds	62.49 ml/mx				
12	Sonic (70 WG)	70 %		WG	3.15 oz ai/a		4.5 oz wt/a		ATPLAN	A		4.213 g/mx	203	403	703	903
	Durango DMA (4 SL)	4 LBAE/GAL		SL	0.75 lb ae/a		24 fl oz/a		MIPOWE	B	4-6" Weeds	23.43 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		MIPOWE	B	4-6" Weeds	62.49 ml/mx				

Sort Order: Treatment

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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					
BBCH Scale						BSOY					
Crop Scientific Name						Glycine max					
Crop Name						Soybean					
Rating Date	May-30-2013	May-30-2013	May-30-2013	May-30-2013	May-30-2013	Jun-5-2013	Jun-5-2013				
Rating Type	CONTRO	CONTRO	PHYGEN	PHYLMA	PHYCHL	PHYGEN	CONTRO				
Rating Unit	%	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1	1				
Crop Stage Majority	V1	V1	V1	V1	V1						
Pest Stage Majority	1 IN	2 IN									
Pest Density, Unit	10 FT2	3 YD2									
Assessed By	MW	MW	MW	MW	MW	DOUG	DOUG				
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	20 20	20 20				
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	14 DP-1	20 DP-1	20 DP-1				
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1	14 DE-1	14 DE-1				
Trt Treatment	Rate	Appl									
No. Name	Rate	Unit	Code	Plot	1	2	3	4	5	6	7
1 Untreated Check				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 Panther (51 WDG)	1.02 oz ai/a	A		102	90.0	90.0	5.0	3.0	0.0	7.0	95.0
Durango DMA (4 SL)	0.75 lb ae/a	B		404	90.0	40.0	5.0	3.0	5.0	5.0	90.0
AMS - Liquid	8.5 lb ai/100 gal	B		601	90.0	50.0	20.0	3.0	3.0	5.0	95.0
				804	90.0	70.0	5.0	5.0	3.0	5.0	95.0
				Mean =	90.0	62.5	8.8	3.5	2.8	5.5	93.8
3 Panther (51 WDG)	1.53 oz ai/a	A		104	70.0	30.0	5.0	5.0	0.0	10.0	95.0
Durango DMA (4 SL)	0.75 lb ae/a	B		502	95.0	60.0	0.0	10.0	0.0	10.0	95.0
AMS - Liquid	8.5 lb ai/100 gal	B		704	99.0	75.0	0.0	7.0	5.0	10.0	95.0
				901	97.0	20.0	0.0	3.0	0.0	0.0	95.0
				Mean =	90.3	46.3	1.3	6.3	1.3	7.5	95.0
4 Sencor 75DF	7.5 oz ai/a	A		105	60.0	0.0	0.0	0.0	0.0	3.0	90.0
Durango DMA (4 SL)	0.75 lb ae/a	B		402	85.0	60.0	0.0	3.0	0.0	2.0	95.0
AMS - Liquid	8.5 lb ai/100 gal	B		605	90.0	0.0	0.0	3.0	0.0	3.0	95.0
				904	70.0	50.0	15.0	0.0	0.0	0.0	90.0
				Mean =	76.3	27.5	3.8	1.5	0.0	2.0	92.5
5 Panther (51 WDG)	1.02 oz ai/a	A		201	95.0	20.0	5.0	5.0	0.0	5.0	95.0
Sencor 75DF	3.75 oz ai/a	A		505	95.0	40.0	5.0	5.0	5.0	5.0	95.0
Durango DMA (4 SL)	0.75 lb ae/a	B		705	97.0	70.0	5.0	7.0	0.0	6.0	95.0
AMS - Liquid	8.5 lb ai/100 gal	B		905	90.0	30.0	25.0	3.0	5.0	2.0	95.0
				Mean =	94.3	40.0	10.0	5.0	2.5	4.5	95.0
6 Panther (51 WDG)	1.02 oz ai/a	A		202	95.0	50.0	10.0	3.0	0.0	5.0	93.0
Sencor 75DF	6 oz ai/a	A		501	95.0	70.0	0.0	5.0	0.0	3.0	98.0
Durango DMA (4 SL)	0.75 lb ae/a	B		802	97.0	40.0	0.0	5.0	0.0	5.0	95.0
AMS - Liquid	8.5 lb ai/100 gal	B		1005	90.0	80.0	0.0	5.0	0.0	5.0	95.0
				Mean =	94.3	60.0	2.5	4.5	0.0	4.5	95.3

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					W Weed SETFA Setaria faberi Giant foxtail	W Weed AMBTR Ambrosia trifi> Giant ragweed				W Weed SETFA Setaria faberi Giant foxtail		
					May-30-2013	May-30-2013	May-30-2013	May-30-2013	May-30-2013	Jun-5-2013	Jun-5-2013	
					CONTRO	CONTRO	PHYGEN	PHYLMA	PHYCHL	PHYGEN	CONTRO	
					%	%	%	%	%	%	%	
					1	1	1	1	1	1	1	
					V1	V1	V1	V1	V1			
					1 IN	2 IN						
					10 FT2	3 YD2						
					MW	MW	MW	MW	MW	DOUG	DOUG	
					14 14	14 14	14 14	14 14	14 14	20 20	20 20	
					14 DP-1	14 DP-1	14 DP-1	14 DP-1	14 DP-1	20 DP-1	20 DP-1	
					8 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1	14 DE-1	14 DE-1	
												GLXMA BSOY Glycine max Soybean
Trt	Treatment	Rate	Appl		1	2	3	4	5	6	7	
No.	Name	Rate	Unit	Code Plot								
7	Panther (51 WDG)	1.53 oz ai/a	A	204	99.0	95.0	0.0	5.0	5.0	10.0	100.0	
	Sencor 75DF	5.6 oz ai/a	A	401	99.0	75.0	10.0	10.0	0.0	0.0	95.0	
	Durango DMA (4 SL)	0.75 lb ae/a	B	602	99.0	90.0	5.0	7.0	0.0	10.0	95.0	
	AMS - Liquid	8.5 lb ai/100 gal	B	902	95.0	85.0	0.0	10.0	0.0	8.0	95.0	
				Mean =	98.0	86.3	3.8	8.0	1.3	7.0	96.3	
8	Panther (51 WDG)	1.02 oz ai/a	A	205	95.0	80.0	0.0	3.0	0.0	5.0	98.0	
	Sencor 75DF	7.5 oz ai/a	A	305	70.0	85.0	10.0	3.0	5.0	5.0	95.0	
	Durango DMA (4 SL)	0.75 lb ae/a	B	604	97.0	85.0	0.0	7.0	3.0	8.0	95.0	
	AMS - Liquid	8.5 lb ai/100 gal	B	1004	95.0	90.0	10.0	5.0	0.0	8.0	95.0	
				Mean =	89.3	85.0	5.0	4.5	2.0	6.5	95.8	
9	Panther (51 WDG)	1.02 oz ai/a	A	301	90.0	60.0	0.0	7.0	0.0	10.0	95.0	
	Cloak (75DF)	2.63 oz ai/a	A	304	50.0	85.0	15.0	3.0	0.0	3.0	85.0	
	Durango DMA (4 SL)	0.75 lb ae/a	B	701	40.0	30.0	0.0	3.0	5.0	5.0	85.0	
	AMS - Liquid	8.5 lb ai/100 gal	B	1001	50.0	70.0	5.0	0.0	0.0	3.0	90.0	
				Mean =	57.5	61.3	5.0	3.3	1.3	5.3	88.8	
10	Valor SX (51 WG)	1.05 oz ai/a	A	302	95.0	30.0	10.0	5.0	0.0	5.0	95.0	
	Classic	0.3605 oz ai/a	A	504	95.0	85.0	0.0	5.0	0.0	8.0	99.0	
	Durango DMA (4 SL)	0.75 lb ae/a	B	801	85.0	30.0	0.0	5.0	0.0	8.0	90.0	
	AMS - Liquid	8.5 lb ai/100 gal	B	1002	60.0	30.0	5.0	7.0	0.0	5.0	95.0	
				Mean =	83.8	43.8	3.8	5.5	0.0	6.5	94.8	
11	Authority MTZ (45 WG)	4.95 oz ai/a	A	103	70.0	0.0	5.0	3.0	0.0	3.0	90.0	
	Durango DMA (4 SL)	0.75 lb ae/a	B	303	90.0	70.0	10.0	3.0	0.0	0.0	95.0	
	AMS - Liquid	8.5 lb ai/100 gal	B	603	95.0	70.0	10.0	0.0	0.0	3.0	99.0	
				803	85.0	0.0	20.0	0.0	0.0	0.0	93.0	
				Mean =	85.0	35.0	11.3	1.5	0.0	1.5	94.3	
12	Sonic (70 WG)	3.15 oz ai/a	A	203	85.0	75.0	5.0	0.0	0.0	0.0	93.0	
	Durango DMA (4 SL)	0.75 lb ae/a	B	403	90.0	60.0	5.0	0.0	0.0	0.0	90.0	
	AMS - Liquid	8.5 lb ai/100 gal	B	703	99.0	70.0	0.0	0.0	3.0	2.0	95.0	
				903	95.0	80.0	0.0	0.0	0.0	3.0	95.0	
				Mean =	92.3	71.3	2.5	0.0	0.8	1.3	93.3	

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	AMBTR	AMBTR	SETFA	SETFA	AMBTR	CHEAL		
Pest Scientific Name	Ambrosia trifi>	Ambrosia trifi>	Setaria faberi	Setaria faberi	Ambrosia trifi>	Chenopodium al>		
Pest Name	Giant ragweed	Giant ragweed	Giant foxtail	Giant foxtail	Giant ragweed	Common lambsqu>		
Crop Code								
BBCB Scale								
Crop Scientific Name								
Crop Name								
Rating Date	Jun-5-2013	Jun-19-2013	Jun-19-2013	Jul-2-2013	Jul-2-2013	Jul-2-2013		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority				V6	V6	V6		
Pest Stage Majority								
Pest Density, Unit								
Assessed By	DOUG	JH	JH					
Days After First/Last Applic.	20 20	34 5	34 5	47 18	47 18	47 18		
Plant-Eval Interval	20 DP-1	34 DP-1	34 DP-1	47 DP-1	47 DP-1	47 DP-1		
Days After Emergence	14 DE-1	28 DE-1	28 DE-1	41 DE-1	41 DE-1	41 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	8	9	10	11	12	13
1 Untreated Check		101	0.0	0.0	0.0	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 Panther (51 WDG)	1.02 oz ai/a	A 102	94.0	65.0	100.0	95.0	87.0	97.0
Durango DMA (4 SL)	0.75 lb ae/a	B 404	80.0	50.0	100.0	90.0	80.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B 601	60.0	50.0	100.0	97.0	75.0	99.0
		804	80.0	65.0	100.0	95.0	87.0	99.0
		Mean =	78.5	57.5	100.0	94.3	82.3	98.5
3 Panther (51 WDG)	1.53 oz ai/a	A 104	90.0	60.0	100.0	87.0	87.0	99.0
Durango DMA (4 SL)	0.75 lb ae/a	B 502	85.0	50.0	100.0	87.0	85.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B 704	85.0	75.0	100.0	95.0	87.0	99.0
		901	50.0	45.0	100.0	97.0	75.0	99.0
		Mean =	77.5	57.5	100.0	91.5	83.5	99.0
4 Sencor 75DF	7.5 oz ai/a	A 105	40.0	80.0	90.0	90.0	90.0	99.0
Durango DMA (4 SL)	0.75 lb ae/a	B 402	70.0	70.0	100.0	95.0	75.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B 605	60.0	75.0	100.0	97.0	90.0	99.0
		904	50.0	65.0	100.0	95.0	80.0	99.0
		Mean =	55.0	72.5	97.5	94.3	83.8	99.0
5 Panther (51 WDG)	1.02 oz ai/a	A 201	85.0	25.0	100.0	97.0	75.0	99.0
Sencor 75DF	3.75 oz ai/a	A 505	80.0	45.0	100.0	93.0	85.0	99.0
Durango DMA (4 SL)	0.75 lb ae/a	B 705	90.0	75.0	100.0	95.0	87.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B 905	40.0	50.0	100.0	95.0	83.0	99.0
		Mean =	73.8	48.8	100.0	95.0	82.5	99.0
6 Panther (51 WDG)	1.02 oz ai/a	A 202	50.0	20.0	100.0	87.0	80.0	99.0
Sencor 75DF	6 oz ai/a	A 501	95.0	55.0	100.0	95.0	90.0	99.0
Durango DMA (4 SL)	0.75 lb ae/a	B 802	60.0	50.0	100.0	95.0	87.0	97.0
AMS - Liquid	8.5 lb ai/100 gal	B 1005	87.0	40.0	100.0	95.0	87.0	99.0
		Mean =	73.0	41.3	100.0	93.0	86.0	98.5

Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMBTR	SETFA	SETFA	AMBTR	CHEAL
Pest Scientific Name	Ambrosia trifi>	Ambrosia trifi>	Setaria faberi	Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name	Giant ragweed	Giant ragweed	Giant foxtail	Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	Jun-5-2013	Jun-19-2013	Jun-19-2013	Jul-2-2013	Jul-2-2013	Jul-2-2013
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority				V6	V6	V6
Pest Stage Majority						
Pest Density, Unit						
Assessed By	DOUG	JH	JH			
Days After First/Last Applic.	20 20	34 5	34 5	47 18	47 18	47 18
Plant-Eval Interval	20 DP-1	34 DP-1	34 DP-1	47 DP-1	47 DP-1	47 DP-1
Days After Emergence	14 DE-1	28 DE-1	28 DE-1	41 DE-1	41 DE-1	41 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	8	9	10	11
			12			13
7 Panther (51 WDG)	1.53 oz ai/a	A 204	100.0	95.0	100.0	97.0
Sencor 75DF	5.6 oz ai/a	A 401	93.0	85.0	100.0	95.0
Durango DMA (4 SL)	0.75 lb ae/a	B 602	95.0	90.0	100.0	95.0
AMS - Liquid	8.5 lb ai/100 gal	B 902	90.0	85.0	100.0	93.0
		Mean =	94.5	88.8	100.0	95.0
8 Panther (51 WDG)	1.02 oz ai/a	A 205	95.0	40.0	100.0	95.0
Sencor 75DF	7.5 oz ai/a	A 305	85.0	45.0	100.0	87.0
Durango DMA (4 SL)	0.75 lb ae/a	B 604	95.0	85.0	100.0	97.0
AMS - Liquid	8.5 lb ai/100 gal	B 1004	92.0	45.0	100.0	93.0
		Mean =	91.8	53.8	100.0	93.0
9 Panther (51 WDG)	1.02 oz ai/a	A 301	50.0	80.0	100.0	97.0
Cloak (75DF)	2.63 oz ai/a	A 304	90.0	35.0	100.0	93.0
Durango DMA (4 SL)	0.75 lb ae/a	B 701	68.0	65.0	95.0	95.0
AMS - Liquid	8.5 lb ai/100 gal	B 1001	94.0	50.0	100.0	87.0
		Mean =	75.5	57.5	98.8	93.0
10 Valor SX (51 WG)	1.05 oz ai/a	A 302	60.0	30.0	100.0	95.0
Classic	0.3605 oz ai/a	A 504	95.0	65.0	100.0	95.0
Durango DMA (4 SL)	0.75 lb ae/a	B 801	65.0	90.0	100.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B 1002	90.0	65.0	100.0	80.0
		Mean =	77.5	62.5	100.0	92.3
11 Authority MTZ (45 WG)	4.95 oz ai/a	A 103	80.0	90.0	100.0	85.0
Durango DMA (4 SL)	0.75 lb ae/a	B 303	80.0	20.0	100.0	95.0
AMS - Liquid	8.5 lb ai/100 gal	B 603	95.0	70.0	100.0	99.0
		803	50.0	50.0	100.0	95.0
		Mean =	76.3	57.5	100.0	93.5
12 Sonic (70 WG)	3.15 oz ai/a	A 203	92.0	30.0	95.0	93.0
Durango DMA (4 SL)	0.75 lb ae/a	B 403	40.0	50.0	95.0	97.0
AMS - Liquid	8.5 lb ai/100 gal	B 703	80.0	70.0	100.0	99.0
		903	93.0	80.0	100.0	97.0
		Mean =	76.3	57.5	97.5	96.5
						88.3
						99.0

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Pest Type					W Weed	W Weed
Pest Code					SETFA	AMBTR
Pest Scientific Name					Setaria faberi	Ambrosia trifida
Pest Name					Giant foxtail	Giant ragweed
Crop Code						
BBCB Scale						
Crop Scientific Name						
Crop Name						
Rating Date					Sep-26-2013	Sep-26-2013
Rating Type					CONTRO	CONTRO
Rating Unit					%	%
Number of Subsamples					1	1
Crop Stage Majority						
Pest Stage Majority						
Pest Density, Unit						
Assessed By						
Days After First/Last Applic.					133 104	133 104
Plant-Eval Interval					133 DP-1	133 DP-1
Days After Emergence					127 DE-1	127 DE-1
Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	
					14	15
1	Untreated Check				101	0.0
					405	0.0
					702	0.0
					805	0.0
					Mean =	0.0
2	Panther (51 WDG)	1.02 oz ai/a	A		102	80.0
	Durango DMA (4 SL)	0.75 lb ae/a	B		404	95.0
	AMS - Liquid	8.5 lb ai/100 gal	B		601	95.0
					804	90.0
					Mean =	90.0
3	Panther (51 WDG)	1.53 oz ai/a	A		104	76.9*
	Durango DMA (4 SL)	0.75 lb ae/a	B		502	70.0
	AMS - Liquid	8.5 lb ai/100 gal	B		704	95.0
					901	99.0
					Mean =	85.2
4	Sencor 75DF	7.5 oz ai/a	A		105	87.0
	Durango DMA (4 SL)	0.75 lb ae/a	B		402	93.0
	AMS - Liquid	8.5 lb ai/100 gal	B		605	99.0
					904	95.0
					Mean =	93.5
5	Panther (51 WDG)	1.02 oz ai/a	A		201	0.0
	Sencor 75DF	3.75 oz ai/a	A		505	95.0
	Durango DMA (4 SL)	0.75 lb ae/a	B		705	99.0
	AMS - Liquid	8.5 lb ai/100 gal	B		905	95.0
					Mean =	72.3
6	Panther (51 WDG)	1.02 oz ai/a	A		202	80.0
	Sencor 75DF	6 oz ai/a	A		501	99.0
	Durango DMA (4 SL)	0.75 lb ae/a	B		802	95.0
	AMS - Liquid	8.5 lb ai/100 gal	B		1005	93.0
					Mean =	91.8

Purdue University

Pest Type	W Weed	W Weed
Pest Code	SETFA	AMBTR
Pest Scientific Name	Setaria faberi	Ambrosia trifida
Pest Name	Giant foxtail	Giant ragweed
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	Sep-26-2013	Sep-26-2013
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Crop Stage Majority		
Pest Stage Majority		
Pest Density, Unit		
Assessed By		
Days After First/Last Applic.	133 104	133 104
Plant-Eval Interval	133 DP-1	133 DP-1
Days After Emergence	127 DE-1	127 DE-1
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code Plot
		14 15
7 Panther (51 WDG)	1.53 oz ai/a	A 204
Sencor 75DF	5.6 oz ai/a	A 401
Durango DMA (4 SL)	0.75 lb ae/a	B 602
AMS - Liquid	8.5 lb ai/100 gal	B 902
	Mean =	97.5 72.5
8 Panther (51 WDG)	1.02 oz ai/a	A 205
Sencor 75DF	7.5 oz ai/a	A 305
Durango DMA (4 SL)	0.75 lb ae/a	B 604
AMS - Liquid	8.5 lb ai/100 gal	B 1004
	Mean =	99.0 95.0
9 Panther (51 WDG)	1.02 oz ai/a	A 301
Cloak (75DF)	2.63 oz ai/a	A 304
Durango DMA (4 SL)	0.75 lb ae/a	B 701
AMS - Liquid	8.5 lb ai/100 gal	B 1001
	Mean =	99.0 65.0
10 Valor SX (51 WG)	1.05 oz ai/a	A 302
Classic	0.3605 oz ai/a	A 504
Durango DMA (4 SL)	0.75 lb ae/a	B 801
AMS - Liquid	8.5 lb ai/100 gal	B 1002
	Mean =	95.0 92.0
11 Authority MTZ (45 WG)	4.95 oz ai/a	A 103
Durango DMA (4 SL)	0.75 lb ae/a	B 303
AMS - Liquid	8.5 lb ai/100 gal	B 603
	Mean =	99.0 85.0
12 Sonic (70 WG)	3.15 oz ai/a	A 203
Durango DMA (4 SL)	0.75 lb ae/a	B 403
AMS - Liquid	8.5 lb ai/100 gal	B 703
	Mean =	99.0 95.0
		903 94.0
	Mean =	97.0 75.8

Purdue University

Panther + Metribuzin Ratio Study

Trial ID: 13S-THP-CTS-49 Protocol ID: 13S-THP-CTS-49
Location: Throckmorton Study Director:
Project ID: H 2013 102 IN Investigator: Dr. Bill Johnson
Sponsor Contact: Amvac - Bill O'Neal

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

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

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

Rating Unit

% = percent

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

14 DP-1 = 1 GLXMA May-16-2013
20 DP-1 = 1 GLXMA May-16-2013
34 DP-1 = 1 GLXMA May-16-2013
47 DP-1 = 1 GLXMA May-16-2013
133 DP-1 = 1 GLXMA May-16-2013

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Panther + Metribuzin Ratio Study

Trial ID: 13S-THP-CTS-49 Protocol ID: 13S-THP-CTS-49
 Location: Throckmorton Study Director:
 Project ID: H 2013 102 IN Investigator: Dr. Bill Johnson
 Sponsor Contact: Amvac - Bill O'Neal

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				
BBCH Scale						BSOY				
Crop Scientific Name						Glycine max				
Crop Name						Soybean				
Rating Date	May-30-2013	May-30-2013	May-30-2013	May-30-2013	May-30-2013	Jun-5-2013	Jun-5-2013			
Rating Type	CONTRO	CONTRO	PHYGEN	PHYLMA	PHYCHL	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1			
Crop Stage Majority	V1	V1	V1	V1	V1	V1				
Pest Stage Majority	1 IN	2 IN								
Pest Density, Unit	10 FT2	3 YD2								
Assessed By	MW	MW	MW	MW	MW	DOUG	DOUG			
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	20 20	20 20			
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	14 DP-1	20 DP-1	20 DP-1			
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1	14 DE-1	14 DE-1			
Trt Treatment	Rate	Appl	1	2	3	4	5	6	7	
No. Name	Rate	Unit	Code							
1 Untreated Check				0.0 c	0.0 c	0.0 a	0.0 d	0.0 a	0.0 d	0.0 c
2 Panther (51 WDG)	1.02 oz ai/a	A		90.0 a	62.5 ab	8.8 a	3.5 bcd	2.8 a	5.5 abc	93.8 ab
Durango DMA (4 SL)	0.75 lb ae/a	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
3 Panther (51 WDG)	1.53 oz ai/a	A		90.3 a	46.3 abc	1.3 a	6.3 ab	1.3 a	7.5 a	95.0 ab
Durango DMA (4 SL)	0.75 lb ae/a	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
4 Sencor 75DF	7.5 oz ai/a	A		76.3 a	27.5 bc	3.8 a	1.5 cd	0.0 a	2.0 a-d	92.5 ab
Durango DMA (4 SL)	0.75 lb ae/a	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
5 Panther (51 WDG)	1.02 oz ai/a	A		94.3 a	40.0 abc	10.0 a	5.0 abc	2.5 a	4.5 a-d	95.0 ab
Sencor 75DF	3.75 oz ai/a	A								
Durango DMA (4 SL)	0.75 lb ae/a	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
6 Panther (51 WDG)	1.02 oz ai/a	A		94.3 a	60.0 ab	2.5 a	4.5 abc	0.0 a	4.5 a-d	95.3 a
Sencor 75DF	6 oz ai/a	A								
Durango DMA (4 SL)	0.75 lb ae/a	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
7 Panther (51 WDG)	1.53 oz ai/a	A		98.0 a	86.3 a	3.8 a	8.0 a	1.3 a	7.0 ab	96.3 a
Sencor 75DF	5.6 oz ai/a	A								
Durango DMA (4 SL)	0.75 lb ae/a	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
8 Panther (51 WDG)	1.02 oz ai/a	A		89.3 a	85.0 a	5.0 a	4.5 abc	2.0 a	6.5 abc	95.8 a
Sencor 75DF	7.5 oz ai/a	A								
Durango DMA (4 SL)	0.75 lb ae/a	B								
AMS - Liquid	8.5 lb ai/100 gal	B								
9 Panther (51 WDG)	1.02 oz ai/a	A		57.5 b	61.3 ab	5.0 a	3.3 bcd	1.3 a	5.3 abc	88.8 b
Cloak (75DF)	2.63 oz ai/a	A								
Durango DMA (4 SL)	0.75 lb ae/a	B								
AMS - Liquid	8.5 lb ai/100 gal	B								

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

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				
BBCH Scale						BSOY				
Crop Scientific Name						Glycine max				
Crop Name						Soybean				
Rating Date	May-30-2013	May-30-2013	May-30-2013	May-30-2013	May-30-2013	Jun-5-2013	Jun-5-2013			
Rating Type	CONTRO	CONTRO	PHYGEN	PHYLMA	PHYCHL	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1			
Crop Stage Majority	V1	V1	V1	V1	V1					
Pest Stage Majority	1 IN	2 IN								
Pest Density, Unit	10 FT2	3 YD2								
Assessed By	MW	MW	MW	MW	MW	DOUG	DOUG			
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	20 20	20 20			
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	14 DP-1	20 DP-1	20 DP-1			
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1	14 DE-1	14 DE-1			
Trt No.	Treatment	Rate	Appl Code	1	2	3	4	5	6	7
10	Valor SX (51 WG)	1.05 oz ai/a	A	83.8 a	43.8 abc	3.8 a	5.5 abc	0.0 a	6.5 abc	94.8 ab
	Classic	0.3605 oz ai/a	A							
	Durango DMA (4 SL)	0.75 lb ae/a	B							
	AMS - Liquid	8.5 lb ai/100 gal	B							
11	Authority MTZ (45 WG)	4.95 oz ai/a	A	85.0 a	35.0 abc	11.3 a	1.5 cd	0.0 a	1.5 bcd	94.3 ab
	Durango DMA (4 SL)	0.75 lb ae/a	B							
	AMS - Liquid	8.5 lb ai/100 gal	B							
12	Sonic (70 WG)	3.15 oz ai/a	A	92.3 a	71.3 ab	2.5 a	0.0 d	0.8 a	1.3 cd	93.3 ab
	Durango DMA (4 SL)	0.75 lb ae/a	B							
	AMS - Liquid	8.5 lb ai/100 gal	B							
	LSD (P=.05)			16.34	32.27	8.56	2.60	2.62	3.39	3.96
	Standard Deviation			11.32	22.35	5.93	1.80	1.81	2.35	2.74
	CV			14.28	43.34	123.76	49.62	185.2	54.22	3.18
	Bartlett's X2			23.253	16.769	7.876	8.007	1.297	18.399	5.283
	P(Bartlett's X2)			0.006*	0.08	0.641	0.533	0.972	0.049*	0.727
	Replicate F			0.560	1.141	0.968	0.902	1.037	2.919	0.107
	Replicate Prob(F)			0.6449	0.3469	0.4196	0.4508	0.3891	0.0486	0.9554
	Treatment F			23.071	4.898	1.384	7.693	1.278	4.647	393.441
	Treatment Prob(F)			0.0001	0.0002	0.2262	0.0001	0.2796	0.0003	0.0001

Purdue University

Pest Type				W Weed
Pest Code				AMBTR
Pest Scientific Name				Ambrosia trifida
Pest Name				Giant ragweed
Crop Code				
B BCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date				Sep-26-2013
Rating Type				CONTRO
Rating Unit				%
Number of Subsamples				1
Crop Stage Majority				
Pest Stage Majority				
Pest Density, Unit				
Assessed By				
Days After First/Last Applic.				133 104
Plant-Eval Interval				133 DP-1
Days After Emergence				127 DE-1
Trt No.	Treatment Name	Rate	Unit	Appl Code
1	Untreated Check			0.0 b
2	Panther (51 WDG)	1.02 oz ai/a	A	88.0 a
	Durango DMA (4 SL)	0.75 lb ae/a	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
3	Panther (51 WDG)	1.53 oz ai/a	A	75.8 a
	Durango DMA (4 SL)	0.75 lb ae/a	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
4	Sencor 75DF	7.5 oz ai/a	A	86.5 a
	Durango DMA (4 SL)	0.75 lb ae/a	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
5	Panther (51 WDG)	1.02 oz ai/a	A	66.3 a
	Sencor 75DF	3.75 oz ai/a	A	
	Durango DMA (4 SL)	0.75 lb ae/a	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
6	Panther (51 WDG)	1.02 oz ai/a	A	86.3 a
	Sencor 75DF	6 oz ai/a	A	
	Durango DMA (4 SL)	0.75 lb ae/a	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
7	Panther (51 WDG)	1.53 oz ai/a	A	72.5 a
	Sencor 75DF	5.6 oz ai/a	A	
	Durango DMA (4 SL)	0.75 lb ae/a	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
8	Panther (51 WDG)	1.02 oz ai/a	A	91.0 a
	Sencor 75DF	7.5 oz ai/a	A	
	Durango DMA (4 SL)	0.75 lb ae/a	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
9	Panther (51 WDG)	1.02 oz ai/a	A	82.5 a
	Cloak (75DF)	2.63 oz ai/a	A	
	Durango DMA (4 SL)	0.75 lb ae/a	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	

Purdue University

Pest Type	W Weed		
Pest Code	AMBTR		
Pest Scientific Name	Ambrosia trifida		
Pest Name	Giant ragweed		
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	Sep-26-2013		
Rating Type	CONTRO		
Rating Unit	%		
Number of Subsamples	1		
Crop Stage Majority			
Pest Stage Majority			
Pest Density, Unit			
Assessed By			
Days After First/Last Applic.	133 104		
Plant-Eval Interval	133 DP-1		
Days After Emergence	127 DE-1		
Trt No.	Treatment	Rate	Appl Code
		Rate Unit	
10	Valor SX (51 WG)	1.05 oz ai/a	A
	Classic	0.3605 oz ai/a	A
	Durango DMA (4 SL)	0.75 lb ae/a	B
	AMS - Liquid	8.5 lb ai/100 gal	B
11	Authority MTZ (45 WG)	4.95 oz ai/a	A
	Durango DMA (4 SL)	0.75 lb ae/a	B
	AMS - Liquid	8.5 lb ai/100 gal	B
12	Sonic (70 WG)	3.15 oz ai/a	A
	Durango DMA (4 SL)	0.75 lb ae/a	B
	AMS - Liquid	8.5 lb ai/100 gal	B
	LSD (P=.05)	31.07	
	Standard Deviation	21.52	
	CV	29.26	
	Bartlett's X2	36.086	
	P(Bartlett's X2)	0.001*	
	Replicate F	1.158	
	Replicate Prob(F)	0.3413	
	Treatment F	5.150	
	Treatment Prob(F)	0.0001	

Purdue University

Panther + Metribuzin Ratio Study

Trial ID: 13S-THP-CTS-49 Protocol ID: 13S-THP-CTS-49
Location: Throckmorton Study Director:
Project ID: H 2013 102 IN Investigator: Dr. Bill Johnson
Sponsor Contact: Amvac - Bill O'Neal

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

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

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

Rating Unit

% = percent

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

14 DP-1 = 1 GLXMA May-16-2013
20 DP-1 = 1 GLXMA May-16-2013
34 DP-1 = 1 GLXMA May-16-2013
47 DP-1 = 1 GLXMA May-16-2013
133 DP-1 = 1 GLXMA May-16-2013