

Purdue University

Dimethenamid efficacy PRE with POST v. POST only in corn and Glyphos X-tra and Metribuzin applied as a burndown to corn

Trial ID: 08S-THP-CTC-42 Protocol ID: 08S-THP-CTC-42
 Location: Throckmorton Study Director: Melissa Kruger
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact:

General Trial Information

Study Director: Melissa Kruger **Title:** Lab Technician VII
Investigator: Dr. William G. Johnson **Title:** Associate Professor

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 5/22/2008

Trial Location

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

Objectives:

The objective of the trial is to evaluate the efficacy of dimethenamid PRE with a POST v. POST only in corn and also the efficacy of Glyphos Xtra and Metribuzin applied as a burndown in corn.

Personnel

Study Director: Melissa Kruger **Title:** Lab Technician VII
Affiliation: Purdue University
Address: 915 W. State St.
Location: West Lafayette, IN USA
Postal Code: 47907 **E-mail:** mmkruger@purdue.edu
Phone No.: 765-494-4621
Investigator: Dr. William G. Johnson **Title:** Associate Professor
Affiliation: Purdue University
Address: 915 W. State St.
Location: West Lafayette, IN USA
Postal Code: 47907 **E-mail:** wgj@purdue.edu
Phone No.: 765-494-4656

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: US

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 60-18 **Description:** JD 7200; RR2/YGPL
BBCH Scale: BCOR **Planting Date:** 5/26/2008
Planting Method: DIRDRI direct drilled **Rate, Unit:** 32000 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Emergence Date: 6/4/2008
Harvest Date: 10/29/2008 **Harvest Equipment:** Gleaner F Combine
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 25 FT
% Standard Moisture: 15.5 **Moisture Meter:** Harvest Master
Weighing Equipment: Carter Manufacturing

Pest Description

Pest 1 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

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:** SOLPT *Solanum ptycanthum*
Common Name: Eastern black nightshade

Pest 5 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 30 FT
Plot Area, Unit: 300 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB L Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Rate	Rate Unit
1.	4/22/2008	UAN	28	%	150	LB/A

Comment: 150 lb/a of UAN 28% was applied on 4/22/08 and then incorporated in

Field Prep./Maintenance:

Fall field was chisel plowed once
Spring field was disked once and cultivated once

Soil Description

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

Analyzed By:

A&L Great Lakes Laboratories, Inc. Report #: F04048-0006

Additional Measured Elements

Element	Quantity	Unit
P	34	ppm
K	124	ppm
Mg	430	ppm
Ca	1400	ppm

Moisture and Weather Conditions

Closest Weather Station: On research farm **Distance, Unit:** 0.5 MI

Comment:

Rain:
6/2: 0.74 in
6/4: 1.24 in

Application Description

	A	B	C
Application Date:	5/22/2008	6/11/2008	6/17/2008
Time of Day:	3:15 PM	6:20 AM	8:10 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PREPRE	POSPOS	POSPOS
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	GK CB	GK MK	AR VM
Air Temperature, Unit:	74 F	65 F	63 F
% Relative Humidity:	45	70	85
Wind Velocity, Unit:	3 MPH	2 MPH	2.5 MPH
Wind Direction:	NW	S	W
Dew Presence (Y/N):	N no	Y yes	Y yes
Soil Temperature, Unit:	70 F	67 F	58 F

Soil Moisture:	Dry	Moist	Wet
% Cloud Cover:	70	5	0

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	DESC	DESC	DESC
Stage Majority, Percent:	N/A	V3	V6
Stage Minimum, Percent:		V3	V6
Stage Maximum, Percent:		V2	V7
Height, Unit:		7 IN	16 IN
Height Minimum, Maximum:		6 9	14 20

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:	C-5nod		
Stage Minimum, Percent:	C		
Stage Maximum, Percent:	5 node		
Height, Unit:	2 IN	10 IN	20 IN
Height Minimum, Maximum:	1 3	0 12	2 28
Density, Unit:	6 YD2	22 YD2	10 YD2
Pest 2 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:	1 lf		
Stage Minimum, Percent:	1 lf		
Stage Maximum, Percent:	2 lf		
Height, Unit:	1.5 IN	10 IN	12 IN
Height Minimum, Maximum:	0.5 2	0 15	4 20
Density, Unit:	15 YD2	60 YD2	125 FT2
Pest 3 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:	C		
Height, Unit:	0.5 IN	4 IN	
Height Minimum, Maximum:	0 0.5	0 8	
Density, Unit:	3 YD2	3 YD2	
Pest 4 Code, Type, Scale:	SOLPT W	SOLPT W	SOLPT W
Stage Majority, Percent:	C		
Stage Minimum, Percent:	C		
Stage Maximum, Percent:	6 lf		
Height, Unit:	0.5 IN	4 IN	
Height Minimum, Maximum:	0 0.5	0 7	
Density, Unit:	1 YD2	3 YD2	
Pest 5 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:	C		
Stage Minimum, Percent:	C		
Stage Maximum, Percent:	4 node		
Height, Unit:	3 IN	10 IN	
Height Minimum, Maximum:	1 5	0 14	
Density, Unit:	3 YD2	1 YD2	

Application Equipment

	A	B	C
Appl. Equipment:	CO2 Backpack	CO2 Backpack	CO2 Backpack
Operating Pressure, Unit:	17 PSI	17 PSI	17 PSI
Nozzle Type:	Flat Fan	Flat Fan	Flat Fan
Nozzle Size:	XR11002	XR11002	XR11002
Nozzle Spacing, Unit:	15 IN	15 IN	15 IN
Nozzles/Row:	8	8	8
Boom Length, Unit:	10 FT	10 FT	10 FT

Boom Height, Unit:	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	H2O	H2O	H2O
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	1.8 Liters	1.8 Liters	1.8 Liters
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	N no	N no	N no

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Dimethenamid efficacy PRE with POST v. POST only in corn and Glyphos X-tra and Metribuzin applied as a burndown to corn

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Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6
1	Untreated				0.0 a	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b
2	Roundup WeatherMAX Ammonium Sulfate	0.77 2	lb ae/a % w/w	B B						95.0 a
3	Roundup WeatherMAX Status Ammonium Sulfate	0.77 0.0875 2	lb ae/a lb ai/a % w/w	B B B						95.8 a
4	Roundup WeatherMAX Status Ammonium Sulfate	0.77 0.175 2	lb ae/a lb ai/a % w/w	B B B						96.5 a
5	Guardsman MAX Roundup WeatherMAX Status Ammonium Sulfate	1.56 0.387 0.0875 2	lb ai/a lb ae/a lb ai/a % w/w	A B B B	0.0 a	90.8 a	100.0 a	97.5 a	100.0 a	99.0 a
6	Guardsman MAX Roundup WeatherMAX Ammonium Sulfate	1.56 0.387 2	lb ai/a lb ae/a % w/w	A C C	0.0 a	92.0 a	100.0 a	96.3 a	100.0 a	95.5 a
7	Guardsman MAX Roundup WeatherMAX Status Ammonium Sulfate	1.56 0.77 0.0875 2	lb ai/a lb ae/a lb ai/a % w/w	A C C C	0.0 a	92.5 a	100.0 a	100.0 a	100.0 a	96.3 a
8	Roundup WeatherMAX Ammonium Sulfate	0.77 2	lb ae/a % w/w	C C						
9	Guardsman MAX Roundup WeatherMAX Status	1.56 0.77 0.175	lb ai/a lb ae/a lb ai/a	A C C	0.0 a	96.3 a	100.0 a	100.0 a	100.0 a	98.8 a

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	CHEAL	SETFA	CHEAL
Pest Scientific Name	Chenopodium al>	Setaria faberi	Chenopodium al>	Setaria faberi	Chenopodium al>
Pest Name	Common lambsqu>	Giant foxtail	Common lambsqu>	Giant foxtail	Common lambsqu>
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn
Crop Variety	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18
Description	JD7200; RR2/YG>	JD7200; RR2/YG>	JD7200; RR2/YG>	JD7200; RR2/YG>	JD7200; RR2/YG>
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/16/2008	6/26/2008	6/26/2008	7/2/2008	7/2/2008
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Crop Stage Majority				V6-7	V6-7
Crop Stage Scale				BBCH	BBCH
Pest Stage Majority					
Pest Stage Minimum/Maximum	2-28"	8-30"	6-36"	10-30"	20-36"
Pest Density, Unit	8 YD2	75 FT2	5 YD2	27 YD2	7 YD2
Assessed By	PM JM	CB JM	CB JM	MK AR	MK AR
Rating Timing	28 DAT A	2 WAT B	2 WAT B	2 WAT C	2 WAT C
Days After First/Last Applic.	25 5	35 9	35 9	41 15	41 15
Plant-Eval Interval	21 DP-1	31 DP-1	31 DP-1	37 DP-1	37 DP-1
Days After Emergence	12 DE-	22 DE-	22 DE-	28 DE-	28 DE-
ARM Action Codes					
Number of Decimals					
Trt No.	Treatment	Rate	Appl		
	Name	Rate	Unit Code	7	8
1	Untreated			0.0 b	0.0 b
2	Roundup WeatherMAX Ammonium Sulfate	0.77 lb ae/a B 2 % w/w B		99.3 a	99.0 a
3	Roundup WeatherMAX Status Ammonium Sulfate	0.77 lb ae/a B 0.0875 lb ai/a B 2 % w/w B		99.3 a	99.8 a
4	Roundup WeatherMAX Status Ammonium Sulfate	0.77 lb ae/a B 0.175 lb ai/a B 2 % w/w B		98.3 a	99.8 a
5	Guardsman MAX Roundup WeatherMAX Status Ammonium Sulfate	1.56 lb ai/a A 0.387 lb ae/a B 0.0875 lb ai/a B 2 % w/w B		100.0 a	100.0 a
6	Guardsman MAX Roundup WeatherMAX Ammonium Sulfate	1.56 lb ai/a A 0.387 lb ae/a C 2 % w/w C		100.0 a	99.5 a
7	Guardsman MAX Roundup WeatherMAX Status Ammonium Sulfate	1.56 lb ai/a A 0.77 lb ae/a C 0.0875 lb ai/a C 2 % w/w C		75.0 a	99.3 a
8	Roundup WeatherMAX Ammonium Sulfate	0.77 lb ae/a C 2 % w/w C			99.5 a
9	Guardsman MAX Roundup WeatherMAX Status	1.56 lb ai/a A 0.77 lb ae/a C 0.175 lb ai/a C		99.8 a	99.8 a
					100.0 a

Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	ABUTH	SETFA	CHEAL	ABUTH					
Pest Scientific Name	Abutilon theop>	Setaria faberi	Chenopodium al>	Abutilon theop>					
Pest Name	Velvetleaf	Giant foxtail	Common lambsqu>	Velvetleaf					
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays								
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn			
Crop Variety	DKC 60-18								
Description	JD7200; RR2/YG>								
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C			
Rating Date	7/2/2008	7/16/2008	7/16/2008	7/16/2008	10/29/2008	10/29/2008			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	YIELD	YIELD			
Rating Unit	%	%	%	%	lb/ac	BU			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority	V6-7	V17	V17	V17					
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH					
Pest Stage Majority					Harvest	Harvest			
Pest Stage Minimum/Maximum	18-24"	3-5'	4-6'	3-5'					
Pest Density, Unit	3 YD2	27 YD2	7 YD2	3 YD2					
Assessed By	MK AR	CB VM	CB VM	CB VM	PM	PM			
Rating Timing	2 WAT C	5W-B & 4W-C	5W-B & 4W-C	5W-B & 4W-C					
Days After First/Last Applic.	41 15	55 29	55 29	55 29	160 134	160 134			
Plant-Eval Interval	37 DP-1	51 DP-1	51 DP-1	51 DP-1	156 DP-1	156 DP-1			
Days After Emergence	28 DE-	42 DE-	42 DE-	42 DE-	147 DE	147 DE			
ARM Action Codes						TY1			
Number of Decimals						1			
Trt Treatment	Rate	Appl							
No. Name	Rate	Unit	Code	12	13	14	15	16	17
1 Untreated				0.0 b	0.0 b	0.0 c	0.0 c	21.95 b	135.8 b
2 Roundup WeatherMAX	0.77 lb ae/a	B			94.3 a	99.3 a	100.0 a	31.18 ab	192.8 ab
Ammonium Sulfate	2 % w/w	B							
3 Roundup WeatherMAX	0.77 lb ae/a	B			98.0 a	99.3 a	99.8 a	35.80 a	221.5 a
Status	0.0875 lb ai/a	B							
Ammonium Sulfate	2 % w/w	B							
4 Roundup WeatherMAX	0.77 lb ae/a	B			98.0 a	99.8 a	99.8 a	36.70 a	227.0 a
Status	0.175 lb ai/a	B							
Ammonium Sulfate	2 % w/w	B							
5 Guardsman MAX	1.56 lb ai/a	A			98.0 a	100.0 a	99.8 a	38.50 a	238.2 a
Roundup WeatherMAX	0.387 lb ae/a	B							
Status	0.0875 lb ai/a	B							
Ammonium Sulfate	2 % w/w	B							
6 Guardsman MAX	1.56 lb ai/a	A		100.0 a	99.3 a	100.0 a	100.0 a	38.38 a	237.4 a
Roundup WeatherMAX	0.387 lb ae/a	C							
Ammonium Sulfate	2 % w/w	C							
7 Guardsman MAX	1.56 lb ai/a	A		100.0 a	99.5 a	100.0 a	100.0 a	40.13 a	248.3 a
Roundup WeatherMAX	0.77 lb ae/a	C							
Status	0.0875 lb ai/a	C							
Ammonium Sulfate	2 % w/w	C							
8 Roundup WeatherMAX	0.77 lb ae/a	C		100.0 a	99.0 a	86.5 b	99.8 a	29.75 ab	184.0 ab
Ammonium Sulfate	2 % w/w	C							
9 Guardsman MAX	1.56 lb ai/a	A		100.0 a	99.8 a	100.0 a	100.0 a	35.68 a	220.7 a
Roundup WeatherMAX	0.77 lb ae/a	C							
Status	0.175 lb ai/a	C							

Pest Type	W Weed					
Pest Code		SETFA	CHEAL	ABUTH	SOLPT	SETFA
Pest Scientific Name		Setaria faberi	Chenopodium al>	Abutilon theop>	Solanum ptycan>	Setaria faberi
Pest Name		Giant foxtail	Common lambsqu>	Velvetleaf	Eastern black >	Giant foxtail
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays					
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Crop Variety	DKC 60-18					
Description	JD7200; RR2/YG>					
Part Rated	PLOT C	PLOT P				
Rating Date	6/5/2008	6/5/2008	6/5/2008	6/5/2008	6/5/2008	6/16/2008
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority						
Crop Stage Scale						
Pest Stage Majority						
Pest Stage Minimum/Maximum		1-6"	0.5-6"	2-4"	1-2"	4-20"
Pest Density, Unit		3 FT2	13 FT2	1 YD2	1 FT2	137 FT2
Assessed By	WGJ	WGJ	WGJ	WGJ	WGJ	PM JM
Rating Timing	14 DAT A	28 DAT A				
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	25 5
Plant-Eval Interval	10 DP-1	21 DP-1				
Days After Emergence	1 DE-1	12 DE-				
ARM Action Codes						
Number of Decimals						
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	Unit	Unit	Unit	Unit	Unit
	Code	Code	Code	Code	Code	Code
10 Glyfos X-Tra	1 lb ae/a A	0.0 a	92.8 a	100.0 a	97.0 a	98.5 a
Metribuzin 75 DF	0.125 lb ai/a A					
Ammonium Sulfate	2 % v/v A					
11 Glyfos X-Tra	1 lb ae/a A	0.0 a	95.8 a	100.0 a	97.5 a	95.0 a
Metribuzin 75 DF	0.188 lb ai/a A					
Ammonium Sulfate	2 % v/v A					
12 Glyfos X-Tra	1 lb ae/a A	0.0 a	98.8 a	100.0 a	100.0 a	100.0 a
Metribuzin 75 DF	0.25 lb ai/a A					
Ammonium Sulfate	2 % v/v A					
13 Glyfos X-Tra	1 lb ae/a A	0.0 a	93.0 a	98.8 a	97.5 a	100.0 a
Metribuzin 75 DF	0.094 lb ai/a A					
Ammonium Sulfate	2 % v/v A					
Glyfos X-Tra	1 lb ae/a B					
Metribuzin 75 DF	0.094 lb ai/a B					
Ammonium Sulfate	2 % v/v B					
14 Glyfos X-Tra	1 lb ae/a A	0.0 a	95.5 a	99.5 a	100.0 a	100.0 a
Atrazine	1 lb ai/a A					
Ammonium Sulfate	2 % v/v A					
15 Untreated		0.0 a	0.0 b	0.0 b	0.0 b	0.0 b
LSD (P=.05)		0.00	7.94	1.21	4.76	4.46
Standard Deviation		0.00	5.49	0.83	3.29	3.08
CV		0.0	7.13	1.02	4.09	3.79
Bartlett's X2		0.0	14.743	2.205	0.093	2.649
P(Bartlett's X2)		.	0.064	0.138	0.999	0.104
Replicate F		0.000	0.903	0.739	1.454	1.458
Replicate Prob(F)		1.0000	0.4515	0.5375	0.2476	0.2465
Treatment F		0.000	193.089	9358.764	584.862	680.141
Treatment Prob(F)		1.0000	0.0001	0.0001	0.0001	0.0001

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.

Pest Type	W Weed	W Weed	W Weed		
Pest Code	SETFA	CHEAL	ABUTH		
Pest Scientific Name	Setaria faberi	Chenopodium al>	Abutilon theop>		
Pest Name	Giant foxtail	Common lambsqu>	Velvetleaf		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays				
Crop Name	Corn	Corn	Corn	Corn	Corn
Crop Variety	DKC 60-18				
Description	JD7200; RR2/YG>				
Part Rated	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C
Rating Date	7/16/2008	7/16/2008	7/16/2008	10/29/2008	10/29/2008
Rating Type	CONTRO	CONTRO	CONTRO	YIELD	YIELD
Rating Unit	%	%	%	lb/ac	BU
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	V17	V17	V17		
Crop Stage Scale	BBCH	BBCH	BBCH		
Pest Stage Majority				Harvest	Harvest
Pest Stage Minimum/Maximum	3-5'	4-6'	3-5'		
Pest Density, Unit	27 YD2	7 YD2	3 YD2		
Assessed By	CB VM	CB VM	CB VM	PM	PM
Rating Timing	5W-B & 4W-C	5W-B & 4W-C	5W-B & 4W-C		
Days After First/Last Applic.	55 29	55 29	55 29	160 134	160 134
Plant-Eval Interval	51 DP-1	51 DP-1	51 DP-1	156 DP-1	156 DP-1
Days After Emergence	42 DE-	42 DE-	42 DE-	147 DE	147 DE
ARM Action Codes					TY1
Number of Decimals					1
Trt Treatment	Rate	Unit	Appl		
No. Name	Rate	Unit	Code	13	14
10 Glyfos X-Tra	1 lb ae/a	A		78.0 a	99.5 a
Metribuzin 75 DF	0.125 lb ai/a	A			
Ammonium Sulfate	2 % v/v	A			
11 Glyfos X-Tra	1 lb ae/a	A		81.3 a	98.8 a
Metribuzin 75 DF	0.188 lb ai/a	A			
Ammonium Sulfate	2 % v/v	A			
12 Glyfos X-Tra	1 lb ae/a	A		86.5 a	100.0 a
Metribuzin 75 DF	0.25 lb ai/a	A			
Ammonium Sulfate	2 % v/v	A			
13 Glyfos X-Tra	1 lb ae/a	A		96.3 a	100.0 a
Metribuzin 75 DF	0.094 lb ai/a	A			
Ammonium Sulfate	2 % v/v	A			
Glyfos X-Tra	1 lb ae/a	B			
Metribuzin 75 DF	0.094 lb ai/a	B			
Ammonium Sulfate	2 % v/v	B			
14 Glyfos X-Tra	1 lb ae/a	A		79.8 a	98.8 a
Atrazine	1 lb ai/a	A			
Ammonium Sulfate	2 % v/v	A			
15 Untreated				0.0 b	0.0 c
LSD (P=.05)	14.98	6.18	0.92	7.828	48.42
Standard Deviation	10.48	4.32	0.64	5.477	33.88
CV	13.02	5.06	0.74	16.39	16.39
Bartlett's X2	83.655	51.703	15.747	15.179	15.178
P(Bartlett's X2)	0.001*	0.001*	0.003*	0.366	0.366
Replicate F	1.364	0.894	2.897	5.204	5.204
Replicate Prob(F)	0.2669	0.4520	0.0462	0.0040	0.0040
Treatment F	41.030	259.857	11886.105	6.735	6.734
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001

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Trial ID: 08S-THP-CTC-42 Protocol ID: 08S-THP-CTC-42
 Location: Throckmorton Study Director: Melissa Kruger
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact:

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US

CHEAL, Chenopodium album, = GB

SOLPT, Solanum ptycanthum, = US

C = Crop is Part Rated

P = Pest is Part Rated

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

YIELD = yield

Rating Unit

% = percent

lb/ac = pounds per acre

BU = bushel

Crop Stage Scale

BBCH = BBCH uniform plant stages

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

10 DP-1 = 1 5/26/2008

21 DP-1 = 1 5/26/2008

31 DP-1 = 1 5/26/2008

37 DP-1 = 1 5/26/2008

51 DP-1 = 1 5/26/2008

156 DP-1 = 1 5/26/2008

ARM Action Codes

TY1 = 6.186036*16