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**TO DETERMINE THE HERBICIDAL EFFICACY AND SELECTIVITY OF GLYFOS X-TRA +  
METRIBUZIN WHEN APPLIED EARLY PREPLANT AS A BURNDOWN AND POST TO CORN IN 2007**

Trial ID: HZEAMXMETR0707  
Location: U.S.

Protocol ID: HZEAMXMETR0707  
Study Director: JAMES BARRENTINE  
Investigator: Dr. William G. Johnson

### General Trial Information

**Study Director:** Vince Davis/ Kevin Westerfeld      **Title:** Research Associate  
**Affiliation:** Purdue University  
**Postal Code:** 47907      **E-mail:** davisv@purdue.edu/ kwesterf@purdue.edu  
**Investigator:** Dr. William G. Johnson      **Title:** Associate Professor  
**Affiliation:** Purdue University  
**Postal Code:** 47097      **E-mail:** wgj@purdue.edu  
**Keywords:** GLFOS X-TRA, METRIBUZIN, CORN, EARLY PREPLANT (EPP), POST, ATRAZINE, EFFICACY  
NICOSULFURON OD, CORN, POST, EFFICACY

### Trial Location

**City:** Lafayette      **Trial Status:** ESTABLISHED  
**State/Prov.:** IN  
**Postal Code:** 47909-9049  
**Country:** USA  
**Directions:**  
Field 5

Guideline
1. ZEAMXHERB0707

### Objectives:

TO DETERMINE THE HERBICIDAL EFFICACY OF GLYFOS X-TRA + METRIBUZIN WHEN APPLIED EPP AND POST TO CORN

### Cooperator/Landowner

**Cooperator:** Throckmorton-Purdue Ag Center (TPAC)      **Country:** USA  
**Organization:** Purdue University      **Phone No:** (765) 538-3422  
**Address 1:** 8343 US 231 South      **Fax No:** (765) 538-3423  
**City:** Lafayette  
**State/Prov:** IN  
**Postal Code:** 47909-9049

### Crop Description

**Crop 1:** ZEAMX Zea mays      **Description:** Corn  
**Variety:** DKC 60-18      **Planting Date:** May/04/2007  
**BBCH Scale:** BCOR      **Rate, Unit:** 31000 S/A  
**Planting Method:** DIRECT DRILLED  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM      **Soil Temperature, Unit:** 60 F  
**Soil Moisture:** Wet      **Emergence Date:** May/13/2007

### Pest Description

**Pest 1 Type:** W      **Code:** SETFA      **Setaria faberi**  
**Common Name:** Giant foxtail

**Pest 2 Type:** W      **Code:** THLSS      **Thlaspi sp.**  
**Common Name:** Field pennycress

**Pest 3 Type:** W      **Code:** LAMPU      **Lamium purpureum**  
**Common Name:** Purple deadnettel

**Pest 4 Type:** W      **Code:** LAMAM      **Lamium amplexicaule**  
**Common Name:** Henbit

**Pest 5 Type:** W      **Code:** STEME      **Stellaria media**  
**Common Name:** Common chickweed

**Pest 6 Type:** W      **Code:** VERSS      **Veronica sp.**  
**Common Name:** Speedwell

### Site and Design

**Plot Width, Unit:** 10 FT      **Site Type:** FIELD  
**Plot Length, Unit:** 30 FT      **Tillage Type:** NO-TILL  
**Replications:** 4      **Study Design:** Randomized Complete Block  
**Soil Drainage:** G Good

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### Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	May/22/2007	UAN	28	%	L	74	Lbs/Acre

### Soil Description

**Description Name:** TPAC Field5  
**% OM:** 2.9                      **Texture:** Sandy-loam  
**pH:** 6.2                         **Soil Name:** Longlois  
**CEC:** 13.3

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

### Additional Measured Elements

Element	Quantity	Unit
K	192	PPM
Mg	260	PPM
Ca	1200	PPM

### Moisture and Weather Conditions

**Closest Weather Station:** On research station                      **Distance:** 0.5                      **Unit:** MI

### Application Description

	A	B
<b>Application Date:</b>	Apr/20/2007	May/18/2007
<b>Time of Day:</b>	3:30pm	10:15
<b>Application Method:</b>	Spray	Spray
<b>Application Timing:</b>	A: EPP	B: POST
<b>Application Placement:</b>	BROSOI	BROFOL
<b>Applied By:</b>	KW MK	AW VM
<b>Air Temperature, Unit:</b>	73 F	64 F
<b>% Relative Humidity:</b>	40	52
<b>Wind Velocity, Unit:</b>	8 MPH	2.5 MPH
<b>Wind Direction:</b>	SE	NW
<b>Dew Presence (Y/N):</b>	N	N
<b>Water Hardness:</b>	Hard	Hard
<b>Soil Temperature, Unit:</b>	55 F	55 F
<b>Soil Moisture:</b>	Wet	Moist
<b>% Cloud Cover:</b>	0	0

### Crop Stage At Each Application

	A	B
<b>Crop 1 Code, BBCH Scale:</b>	ZEAMX BCOR	ZEAMX BCOR
<b>Stage Scale Used:</b>	BBCH	BBCH
<b>Stage Majority, Percent:</b>	PREPLANT	VE
<b>Height, Unit:</b>		1.5 IN
<b>Height Minimum, Maximum:</b>		1 2

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## Pest Stage At Each Application

	A	B
<b>Pest 1 Code, Disc., Scale:</b>	SETFA W	SETFA W
<b>Stage Majority, Percent:</b>		3 lf
<b>Height, Unit:</b>		2 IN
<b>Height Minimum, Maximum:</b>		0.5 4
<b>Density, Unit:</b>		1215 YD2
<b>Pest 2 Code, Disc., Scale:</b>	THLSS W	THLSS W
<b>Stage Majority, Percent:</b>	Bolt	Bolt
<b>Stage Minimum, Percent:</b>		Rosett
<b>Stage Maximum, Percent:</b>		Seed
<b>Height, Unit:</b>	2 IN	2 IN
<b>Height Minimum, Maximum:</b>	1 4	1 3
<b>Density, Unit:</b>	4 YD2	7 YD2
<b>Pest 3 Code, Disc., Scale:</b>	LAMPU W	LAMPU W
<b>Stage Majority, Percent:</b>	6 lf	
<b>Stage Maximum, Percent:</b>	Flower	
<b>Height, Unit:</b>	2 IN	
<b>Height Minimum, Maximum:</b>	1 3	
<b>Density, Unit:</b>	1 YD2	
<b>Pest 4 Code, Disc., Scale:</b>	LAMAM W	LAMAM W
<b>Stage Majority, Percent:</b>	3-5 lf	
<b>Stage Maximum, Percent:</b>	Flower	
<b>Height, Unit:</b>	2 IN	
<b>Height Minimum, Maximum:</b>	1 3	
<b>Density, Unit:</b>	1 YD2	
<b>Pest 5 Code, Disc., Scale:</b>	STEME W	STEME W
<b>Stage Majority, Percent:</b>	Flower	
<b>Height, Unit:</b>	3 IN	
<b>Height Minimum, Maximum:</b>	1 6	
<b>Density, Unit:</b>	4 YD2	
<b>Pest 6 Code, Disc., Scale:</b>	VERSS W	VERSS W
<b>Height, Unit:</b>	3 IN	
<b>Height Minimum, Maximum:</b>	1 6	
<b>Density, Unit:</b>	2 YD2	

## Application Equipment

	A	B
<b>Appl. Equipment:</b>	Backpack	Backpack
<b>Operating Pressure, Unit:</b>	17 PSI	17 PSI
<b>Nozzle Type:</b>	XR11002	XR11002
<b>Nozzle Spacing, Unit:</b>	15 IN	15 IN
<b>Nozzles/Row:</b>	8	8
<b>Boom Length, Unit:</b>	10 FT	10 FT
<b>Boom Height, Unit:</b>	15 IN	15 IN
<b>Ground Speed, Unit:</b>	3 MPH	3 MPH
<b>Carrier:</b>	TPAC H2O	TPAC H2O
<b>Spray Volume, Unit:</b>	15 GAL/AC	15 GAL/AC
<b>Mix Size, Unit:</b>	1.8 Liters	1.8 Liters
<b>Propellant:</b>	CO2	CO2

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**TO DETERMINE THE HERBICIDAL EFFICACY AND SELECTIVITY OF GLYFOS X-TRA +  
METRIBUZIN WHEN APPLIED EARLY PREPLANT AS A BURNDOWN AND POST TO CORN IN 2007**

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Trial Comments

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								W Weed						
								SETFA	THLAR	STEME	SETFA	THLAR	STEME	SETFA
								Giant foxta>	Field penny>	Common chic>	Giant foxta>	Field penny>	Common chic>	Giant foxta>
								ZEAMX						
								BCOR						
								Corn						
								DKC 60-18						
								May/04/2007	May/04/2007	May/04/2007	May/31/2007	May/31/2007	May/31/2007	Jun/14/2007
								CONTRO						
								%	%	%	%	%	%	%
								0-1"	0-10"	3-12"	2-6"	2-16"	3-12"	0-14"
								1350YD2	3 YD2	3.5 YD2	1350YD2	3 YD2	3.5 YD2	1350YD2
								AW+KW	AW+KW	AW+KW	AW+BN	AW+BN	AW+BN	KW+VM
								0 DAP	0 DAP	0 DAP	14 DAT	14 DAT	14 DAT	28 DAT
								14 14	14 14	14 14	41 13	41 13	41 13	55 27
								0 DP-1	0 DP-1	0 DP-1	27 DP-1	27 DP-1	27 DP-1	41 DP-1
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code Plot	1	2	3	4	5	6	7
1	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	EPP	A 101	0.0	100.0	100.0	0.0	100.0	100.0	0.0
	METRIBUZIN	0.125	lb ai/a	2.67	oz/a	EPP	A 303	15.0	100.0	100.0	13.0	100.0	100.0	0.0
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	EPP	A 404	15.0	100.0	100.0	37.0	100.0	88.0	40.0
							606	25.0	100.0	100.0	55.0	100.0	100.0	25.0
	Mean =							13.8	100.0	100.0	26.3	100.0	97.0	16.3
2	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	EPP	A 102	10.0	100.0	100.0	0.0	50.0	50.0	0.0
	METRIBUZIN	0.1875	lb ai/a	4	oz/a	EPP	A 301	0.0	100.0	100.0	0.0	100.0	100.0	0.0
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	EPP	A 402	12.0	100.0	100.0	5.0	100.0	100.0	0.0
							505	55.0	100.0	100.0	17.0	100.0	100.0	3.0
	Mean =							19.3	100.0	100.0	5.5	87.5	87.5	0.8
3	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	EPP	A 103	0.0	100.0	100.0	0.0	100.0	100.0	0.0
	METRIBUZIN	0.25	lb ai/a	5.33	oz/a	EPP	A 205	60.0	100.0	100.0	25.0	100.0	100.0	15.0
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	EPP	A 503	55.0	100.0	100.0	50.0	100.0	100.0	5.0
							601	10.0	100.0	100.0	15.0	100.0	100.0	3.0
	Mean =							31.3	100.0	100.0	22.5	100.0	100.0	5.8
4	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	EPP	A 104	40.0	100.0	100.0	95.0	100.0	100.0	75.0
	METRIBUZIN	0.094	lb ai/a	2	oz/a	EPP	A 304	0.0	100.0	100.0	87.0	95.0	95.0	60.0
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	EPP	A 502	30.0	100.0	100.0	90.0	100.0	100.0	55.0
	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	POST	B 504	25.0	100.0	100.0	93.0	100.0	100.0	70.0
	METRIBUZIN	0.094	lb ai/a	2	oz/a	POST	B							
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	POST	B							
	Mean =							23.8	100.0	100.0	91.3	98.8	98.8	65.0
5	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	POST	B 105	0.0	0.0	0.0	93.0	100.0	95.0	73.0
	METRIBUZIN	0.125	lb ai/a	2.67	oz/a	POST	B 204	0.0	0.0	0.0	96.0	90.0	100.0	83.0
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	POST	B 501	0.0	0.0	0.0	87.0	100.0	100.0	65.0
							604	0.0	0.0	0.0	97.0	100.0	90.0	50.0
	Mean =							0.0	0.0	0.0	93.3	97.5	96.3	67.8
6	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	POST	B 106	0.0	0.0	0.0	95.0	90.0	100.0	65.0
	METRIBUZIN	0.1875	lb ai/a	4	oz/a	POST	B 305	0.0	0.0	0.0	95.0	100.0	100.0	55.0
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	POST	B 403	0.0	0.0	0.0	93.0	100.0	100.0	85.0
							602	0.0	0.0	0.0	85.0	100.0	100.0	75.0
	Mean =							0.0	0.0	0.0	92.0	97.5	100.0	70.0
7	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	POST	B 201	0.0	0.0	0.0	93.0	93.0	100.0	77.0
	METRIBUZIN	0.25	lb ai/a	5.33	oz/a	POST	B 306	0.0	0.0	0.0	90.0	90.0	100.0	55.0
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	POST	B 405	0.0	0.0	0.0	95.0	100.0	100.0	80.0
							605	0.0	0.0	0.0	97.0	87.0	100.0	60.0
	Mean =							0.0	0.0	0.0	93.8	92.5	100.0	68.0



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Pest Type	W Weed	STEME	Common chic>	ZEAMX	ZEAMX	ZEAMX	W Weed					
Pest Code							SETFA					
Pest Name							Giant foxtla>					
Crop Code							ZEAMX					
BBCH Scale							BCOR					
Crop Name							Corn					
Crop Variety							DKC 60-18					
Description							DKC 60-18					
Rating Date							V5-V6					
Rating Data Type							V5-V6					
Rating Unit							%					
Pest Stage							%					
Pest Density, Unit							3-15"					
Footnote Number							1200YD2					
Assessed By							1					
Rating Timing							1					
Days After First/Last Applic.							MK+GK					
Plant-Eval Interval							42 DAT					
							66 38					
							52 DP-1					
							52 DP-1					
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	8	9	10	11
1	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	EPP	A	101	100.0	55.0	50.0	0.0
	METRIBUZIN	0.125	lb ai/a	2.67	oz/a	EPP	A	303	100.0	45.0	50.0	0.0
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	EPP	A	404	100.0	15.0	35.0	0.0
								606	100.0	7.0	30.0	10.0
	Mean =								100.0	30.5	41.3	2.5
2	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	EPP	A	102	100.0	55.0	50.0	0.0
	METRIBUZIN	0.1875	lb ai/a	4	oz/a	EPP	A	301	100.0	50.0	60.0	0.0
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	EPP	A	402	100.0	25.0	50.0	0.0
								505	100.0	5.0	40.0	0.0
	Mean =								100.0	33.8	50.0	0.0
3	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	EPP	A	103	100.0	50.0	50.0	0.0
	METRIBUZIN	0.25	lb ai/a	5.33	oz/a	EPP	A	205	100.0	25.0	0.0	0.0
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	EPP	A	503	100.0	10.0	50.0	0.0
								601	100.0	10.0	40.0	0.0
	Mean =								100.0	23.8	35.0	0.0
4	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	EPP	A	104	100.0	0.0	0.0	10.0
	METRIBUZIN	0.094	lb ai/a	2	oz/a	EPP	A	304	100.0	0.0	10.0	0.0
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	EPP	A	502	100.0	0.0	5.0	30.0
	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	POST	B	504	100.0	0.0	0.0	25.0
	METRIBUZIN	0.094	lb ai/a	2	oz/a	POST	B					
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	POST	B					
	Mean =								100.0	0.0	3.8	16.3
5	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	POST	B	105	100.0	0.0	0.0	25.0
	METRIBUZIN	0.125	lb ai/a	2.67	oz/a	POST	B	204	100.0	0.0	0.0	25.0
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	POST	B	501	100.0	0.0	15.0	20.0
								604	100.0	3.0	0.0	40.0
	Mean =								100.0	0.8	3.8	27.5
6	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	POST	B	106	100.0	3.0	15.0	25.0
	METRIBUZIN	0.1875	lb ai/a	4	oz/a	POST	B	305	100.0	0.0	10.0	0.0
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	POST	B	403	100.0	0.0	0.0	20.0
								602	100.0	3.0	0.0	40.0
	Mean =								100.0	1.5	6.3	21.3
7	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	POST	B	201	100.0	3.0	0.0	40.0
	METRIBUZIN	0.25	lb ai/a	5.33	oz/a	POST	B	306	100.0	3.0	10.0	0.0
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	POST	B	405	100.0	3.0	0.0	25.0
								605	100.0	0.0	0.0	30.0
	Mean =								100.0	2.3	2.5	23.8
8	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	EPP	A	202	100.0	0.0	0.0	80.0
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	EPP	A	206	100.0	0.0	0.0	95.0
	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	POST	B	401	100.0	0.0	0.0	50.0
	ATRAZINE	1	lb ai/a	32	fl oz/a	POST	B	506	100.0	0.0	0.0	50.0
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	POST	B					
	Mean =								100.0	0.0	0.0	68.8

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Pest Type	W Weed			W Weed
Pest Code	STEME			SETFA
Pest Name	Common chic>			Giant foxta>
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR
Crop Name	Corn	Corn	Corn	Corn
Crop Variety	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18
Description	V5-V6	V5-V6	V5-V6	V5-V6
Rating Date	Jun/14/2007	Jun/14/2007	Jun/25/2007	Jun/25/2007
Rating Data Type	CONTRO	PHYGEN	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Pest Stage	3-12"			3-15"
Pest Density, Unit	3.5 YD2			1200YD2
Footnote Number		1	1	
Assessed By	KW+VM	KW+VM	MK+GK	MK+GK
Rating Timing	28 DAT	28 DAT	42 DAT	42 DAT
Days After First/Last Applic.	55 27	55 27	66 38	66 38
Plant-Eval Interval	41 DP-1	41 DP-1	52 DP-1	52 DP-1

  

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	8	9	10	11
9	UNTREATED							203	0.0	45.0	40.0	0.0
								302	0.0	60.0	60.0	0.0
								406	0.0	50.0	50.0	0.0
								603	0.0	45.0	50.0	0.0
								Mean =	0.0	50.0	50.0	0.0

Footnote 1: Crop injury/stunting due to weed competition, not herbicide.

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Location: U.S.

Protocol ID: HZEAMXMETR0707  
Study Director: JAMES BARRENTINE  
Investigator: Dr. William G. Johnson

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed							
Pest Code	SETFA	THLAR	STEME	SETFA	THLAR	STEME	SETFA							
Pest Name	Giant foxta>	Field penny>	Common chic>	Giant foxta>	Field penny>	Common chic>	Giant foxta>							
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX							
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR							
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn							
Crop Variety	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18	DKC 60-18							
Description														
Rating Date	May/04/2007	May/04/2007	May/04/2007	May/31/2007	May/31/2007	May/31/2007	Jun/14/2007							
Rating Data Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO							
Rating Unit	%	%	%	%	%	%	%							
Pest Stage	0-1"	0-10"	3-12"	2-6"	2-16"	3-12"	0-14"							
Pest Density, Unit	1350YD2	3 YD2	3.5 YD2	1350YD2	3 YD2	3.5 YD2	1350YD2							
Footnote Number														
Assessed By	AW+KW	AW+KW	AW+KW	AW+BN	AW+BN	AW+BN	KW+VM							
Rating Timing	0 DAP	0 DAP	0 DAP	14 DAT	14 DAT	14 DAT	28 DAT							
Days After First/Last Applic.	14 14	14 14	14 14	41 13	41 13	41 13	55 27							
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	27 DP-1	27 DP-1	27 DP-1	41 DP-1							
Trt No.	Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6	7
1	GLYFOS X-TRA	1 lb ai/a		32 fl oz/a		EPP A	A	13.8 a	100.0 a	100.0 a	26.3 b	100.0 a	97.0 a	16.3 c
	METRIBUZIN	0.125 lb ai/a		2.67 oz/a		EPP A	A							
	Ammonium Sulfate	17 lb/100 gal		17 lb/100 gal		EPP A	A							
2	GLYFOS X-TRA	1 lb ai/a		32 fl oz/a		EPP A	A	19.3 a	100.0 a	100.0 a	5.5 c	87.5 a	87.5 a	0.8 c
	METRIBUZIN	0.1875 lb ai/a		4 oz/a		EPP A	A							
	Ammonium Sulfate	17 lb/100 gal		17 lb/100 gal		EPP A	A							
3	GLYFOS X-TRA	1 lb ai/a		32 fl oz/a		EPP A	A	31.3 a	100.0 a	100.0 a	22.5 b	100.0 a	100.0 a	5.8 c
	METRIBUZIN	0.25 lb ai/a		5.33 oz/a		EPP A	A							
	Ammonium Sulfate	17 lb/100 gal		17 lb/100 gal		EPP A	A							
4	GLYFOS X-TRA	1 lb ai/a		32 fl oz/a		EPP A	A	23.8 a	100.0 a	100.0 a	91.3 a	98.8 a	98.8 a	65.0 b
	METRIBUZIN	0.094 lb ai/a		2 oz/a		EPP A	A							
	Ammonium Sulfate	17 lb/100 gal		17 lb/100 gal		EPP A	A							
	GLYFOS X-TRA	1 lb ai/a		32 fl oz/a		POST B	B							
	METRIBUZIN	0.094 lb ai/a		2 oz/a		POST B	B							
	Ammonium Sulfate	17 lb/100 gal		17 lb/100 gal		POST B	B							
5	GLYFOS X-TRA	1 lb ai/a		32 fl oz/a		POST B	B	0.0 a	0.0 b	0.0 b	93.3 a	97.5 a	96.3 a	67.8 b
	METRIBUZIN	0.125 lb ai/a		2.67 oz/a		POST B	B							
	Ammonium Sulfate	17 lb/100 gal		17 lb/100 gal		POST B	B							
6	GLYFOS X-TRA	1 lb ai/a		32 fl oz/a		POST B	B	0.0 a	0.0 b	0.0 b	92.0 a	97.5 a	100.0 a	70.0 b
	METRIBUZIN	0.1875 lb ai/a		4 oz/a		POST B	B							
	Ammonium Sulfate	17 lb/100 gal		17 lb/100 gal		POST B	B							
7	GLYFOS X-TRA	1 lb ai/a		32 fl oz/a		POST B	B	0.0 a	0.0 b	0.0 b	93.8 a	92.5 a	100.0 a	68.0 b
	METRIBUZIN	0.25 lb ai/a		5.33 oz/a		POST B	B							
	Ammonium Sulfate	17 lb/100 gal		17 lb/100 gal		POST B	B							
8	GLYFOS X-TRA	1 lb ai/a		32 fl oz/a		EPP A	A	0.0 a	0.0 b	0.0 b	95.0 a	100.0 a	100.0 a	91.3 a
	Ammonium Sulfate	17 lb/100 gal		17 lb/100 gal		EPP A	A							
	GLYFOS X-TRA	1 lb ai/a		32 fl oz/a		POST B	B							
	ATRAZINE	1 lb ai/a		32 fl oz/a		POST B	B							
	Ammonium Sulfate	17 lb/100 gal		17 lb/100 gal		POST B	B							
9	UNTREATED							0.0 a	0.0 b	0.0 b	0.0 c	0.0 b	0.0 b	0.0 c
LSD (P=.05)								22.03	0.00	0.00	16.35	12.83	12.96	15.96
Standard Deviation								15.10	0.00	0.00	11.20	8.79	8.88	10.94
CV								154.38	0.0	0.0	19.41	10.23	10.25	25.59
Bartlett's X2								3.294	0.0	0.0	27.125	18.842	16.105	17.686
P(Bartlett's X2)								0.349	.	.	0.001*	0.001*	0.001*	0.013*
Replicate F								0.474	0.000	0.000	1.448	1.210	0.758	0.686
Replicate Prob(F)								0.7031	1.0000	1.0000	0.2538	0.3274	0.5286	0.5692
Treatment F								2.720	0.000	0.000	57.925	54.670	54.360	43.944
Treatment Prob(F)								0.0275	1.0000	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.

# Purdue University

Pest Type	W Weed	STEME	Common chic->	W Weed	SETFA
Pest Code					
Pest Name					Giant foxta->
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
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		V5-V6	V5-V6		
Rating Date	Jun/14/2007	Jun/14/2007	Jun/25/2007	Jun/25/2007	Jun/25/2007
Rating Data Type	CONTRO	PHYGEN	PHYGEN	CONTRO	
Rating Unit	%	%	%	%	%
Pest Stage	3-12"				3-15"
Pest Density, Unit	3.5 YD2				1200YD2
Footnote Number		1	1		
Assessed By	KW+VM	KW+VM	MK+GK	MK+GK	
Rating Timing	28 DAT	28 DAT	42 DAT	42 DAT	
Days After First/Last Applic.	55 27	55 27	66 38	66 38	
Plant-Eval Interval	41 DP-1	41 DP-1	52 DP-1	52 DP-1	

  

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	8	9	10	11
1	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	EPP	A	100.0 a	30.5 ab	41.3 a	2.5 b
	METRIBUZIN	0.125	lb ai/a	2.67	oz/a	EPP	A				
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	EPP	A				
2	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	EPP	A	100.0 a	33.8 ab	50.0 a	0.0 b
	METRIBUZIN	0.1875	lb ai/a	4	oz/a	EPP	A				
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	EPP	A				
3	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	EPP	A	100.0 a	23.8 bc	35.0 a	0.0 b
	METRIBUZIN	0.25	lb ai/a	5.33	oz/a	EPP	A				
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	EPP	A				
4	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	EPP	A	100.0 a	0.0 c	3.8 b	16.3 b
	METRIBUZIN	0.094	lb ai/a	2	oz/a	EPP	A				
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	EPP	A				
	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	POST	B				
	METRIBUZIN	0.094	lb ai/a	2	oz/a	POST	B				
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	POST	B				
5	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	POST	B	100.0 a	0.8 c	3.8 b	27.5 b
	METRIBUZIN	0.125	lb ai/a	2.67	oz/a	POST	B				
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	POST	B				
6	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	POST	B	100.0 a	1.5 c	6.3 b	21.3 b
	METRIBUZIN	0.1875	lb ai/a	4	oz/a	POST	B				
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	POST	B				
7	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	POST	B	100.0 a	2.3 c	2.5 b	23.8 b
	METRIBUZIN	0.25	lb ai/a	5.33	oz/a	POST	B				
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	POST	B				
8	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	EPP	A	100.0 a	0.0 c	0.0 b	68.8 a
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	EPP	A				
	GLYFOS X-TRA	1	lb ai/a	32	fl oz/a	POST	B				
	ATRAZINE	1	lb ai/a	32	fl oz/a	POST	B				
	Ammonium Sulfate	17	lb/100 gal	17	lb/100 gal	POST	B				
9	UNTREATED							0.0 b	50.0 a	50.0 a	0.0 b

  

LSD (P=.05)	0.00	16.45	15.60	18.10
Standard Deviation	0.00	11.27	10.69	12.40
CV	0.0	71.19	49.97	69.76
Bartlett's X2	0.0	34.389	12.413	6.29
P(Bartlett's X2)	.	0.001*	0.088	0.279
Replicate F	0.000	3.709	0.462	0.831
Replicate Prob(F)	1.0000	0.0253	0.7114	0.4901
Treatment F	0.000	11.353	16.994	12.756
Treatment Prob(F)	1.0000	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.

Footnote 1: Crop injury/stunting due to weed competition, not herbicide.