

# Purdue University

## 2012/CORN/ANTHEM/ATZ/GIANT RAGWEED/

Trial ID: 12S-THP-CTC0-09      Protocol ID: 12S-THP-CTC0-09  
 Location: Throckmorton      Study Director: White/Marquardt  
 Project ID: PYRX.COR.12.JPR.01(a)      Investigator: Dr. Bill Johnson  
 Sponsor Contact: FMC - Joe Reed

### General Trial Information

**Study Director:** White/Marquardt      **Title:** Research Associate  
**Investigator:** Dr. Bill Johnson      **Title:** Professor

**Discipline:** H herbicide  
**Trial Status:** E established  
**Initiation Date:** 3-17-2012

### Trial Location

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

### Personnel

**Study Director:** White/Marquardt      **Title:** Research Associate  
**Affiliation:** Purdue University  
**Address:** 915 W State Street  
**Location:** West Lafayette, IN, USA  
**Postal Code:** 47907      **E-mail:** mdwhite@purdue.edu  
**Phone No.:** 765-494-0891  
**Investigator:** Dr. Bill Johnson      **Title:** Professor  
**Affiliation:** Purdue University  
**Address:** 915 W State Street  
**Location:** West Lafayette, IN, USA  
**Postal Code:** 47907      **E-mail:** wji@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:** ZEAMD Zea mays indentata      Dent corn  
**Variety:** Beck's 6175      **Description:** HXX, LL, RR2  
**BBCH Scale:** BCOR      **Planting Date:** 4-18-2012  
**Planting Method:** PLANTD      planted      **Rate, Unit:** 32000 S/A  
**Depth, Unit:** 1.5      IN  
**Row Spacing, Unit:** 30      IN  
**Soil Moisture:** DRY      dry      **Soil Temperature, Unit:** 68      F  
**Emergence Date:** 5-2-2012

### Pest Description

**Pest 1 Type:** W      **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant ragweed  
**Pest 2 Type:** W      **Code:** CHEAL Chenopodium album  
**Common Name:** Common lambsquarters  
**Pest 3 Type:** W      **Code:** SETFA Setaria faberi  
**Common Name:** Giant foxtail  
**Pest 4 Type:** W      **Code:** ABUTH Abutilon theophrasti  
**Common Name:** Velvetleaf

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

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

Application Description			
	A	B	C
<b>Application Date:</b>	4-18-2012	5-10-2012	5-30-2012
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	ATPLAN	EAPOCR	MIPOCR
<b>Application Placement:</b>	SOIL	FOLIAR	FOLIAR
<b>Applied By:</b>	MW	MW	MW
<b>Air Temperature, Unit:</b>	72 F	69 F	78 F
<b>% Relative Humidity:</b>	39	63	25.5
<b>Wind Velocity, Unit:</b>	9 MPH	4 MPH	0 MPH
<b>Wind Direction:</b>	East	NW	
<b>Dew Presence (Y/N):</b>	N no	N no	Y yes
<b>Soil Temperature, Unit:</b>	68 F	60 F	85 F
<b>Soil Moisture:</b>	DRY	SLIWET	DRY
<b>% Cloud Cover:</b>	10	5	0

Crop Stage At Each Application			
	A	B	C
<b>Crop 1 Code, BBCH Scale:</b>	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR
<b>Stage Scale Used:</b>		BBCH	BBCH
<b>Stage Majority, Percent:</b>		V2	V5
<b>Height, Unit:</b>		5 IN	24 IN

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## Pest Stage At Each Application

	A	B	C
<b>Pest 1 Code, Type, Scale:</b>	AMBTR W	AMBTR W	AMBTR W
<b>Height, Unit:</b>		1.25 IN	10.5 IN
<b>Height Minimum, Maximum:</b>		0.5 2.0	5 16
<b>Density, Unit:</b>		7 YD2	12 YD2
<b>Pest 2 Code, Type, Scale:</b>	CHEAL W	CHEAL W	CHEAL W
<b>Height, Unit:</b>		0.5 IN	5.5 IN
<b>Height Minimum, Maximum:</b>			4 7
<b>Density, Unit:</b>		3 YD2	3 YD2
<b>Pest 3 Code, Type, Scale:</b>	SETFA W	SETFA W	SETFA W
<b>Height, Unit:</b>		0.5 IN	4.75 IN
<b>Height Minimum, Maximum:</b>			1 8.5
<b>Density, Unit:</b>		17 YD2	31 YD2
<b>Pest 4 Code, Type, Scale:</b>	ABUTH W	ABUTH W	ABUTH W
<b>Height, Unit:</b>			5 IN
<b>Density, Unit:</b>			2 YD2

## Application Equipment

	A	B	C
<b>Appl. Equipment:</b>	CO2 FORD	CO2 FORD	CO2 FORD
<b>Equipment Type:</b>	SPTRMO	SPTRMO	SPTRMO
<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>Boom Height, Unit:</b>	20 IN	20 IN	20 IN
<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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## 2012/CORN/ANTHEM/ATZ/GIANT RAGWEED/

Trial ID: 12S-THP-CTC0-09      Protocol ID: 12S-THP-CTC0-09  
 Location: Throckmorton      Study Director: White/Marquardt  
 Project ID: PYRX.COR.12.JPR.01(a)      Investigator: Dr. Bill Johnson  
 Sponsor Contact: FMC - Joe Reed

Pest Type		W Weed SETFA	W Weed AMBTR	W Weed CHEAL	W Weed SETFA	W Weed AMBTR	W Weed CHEAL		
Pest Code		Setaria faberi	Ambrosia trifi>	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Chenopodium al>		
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Chenopodium al>		
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>	Giant foxtail	Giant ragweed	Common lambsqu>		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn		
Rating Date	5-10-2012	5-10-2012	5-10-2012	5-10-2012	5-23-2012	5-23-2012	5-23-2012		
Rating Type	PHYCHL	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1	1		
Crop Stage Majority	V2	V2	V2	V2	V4	V4	V4		
Pest Stage Majority	1 IN	2 IN	1 IN		4 IN	6 IN	3 IN		
Pest Density, Unit	10 FT2	3 YD2	4 FT2		20 FT2	8 YD2	3 FT2		
Assessed By	MW	MW	MW	MW	MW	MW	MW		
Days After First/Last Applic.	22 22	22 22	22 22	22 22	35 13	35 13	35 13		
Plant-Eval Interval	22 DP-1	22 DP-1	22 DP-1	22 DP-1	35 DP-1	35 DP-1	35 DP-1		
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	21 DE-1	21 DE-1	21 DE-1		
Trt Treatment	Rate	Appl	1	2	3	4	5	6	7
No. Name	Rate Unit	Code							
1 UNTREATED			0.0 a	0.0 c	0.0 c	0.0 b	0.0 c	0.0 c	0.0 b
2 ANTHEM ATZ	32 oz/a	A	3.3 a	99.0 a	89.3 a	99.0 a	96.5 a	80.0 ab	99.0 a
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
3 ANTHEM ATZ	48 oz/a	A	1.5 a	99.0 a	94.3 a	99.0 a	95.3 a	86.3 ab	99.0 a
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
4 ANTHEM	8 oz/a	A	1.7 a	66.1 b	55.4 b	99.1 a	75.5 b	75.7 ab	92.8 a
HORNET	3 oz/a	A							
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
5 ANTHEM ATZ	32 oz/a	A	2.8 a	98.0 a	93.0 a	99.0 a	92.5 a	86.3 ab	99.0 a
HORNET	3 oz/a	A							
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
6 ANTHEM	8 oz/a	A	3.8 a	98.0 a	62.5 b	99.0 a	92.0 a	70.0 b	99.0 a
IMPACT HERBICIDE	0.75 oz/a	C							
Atrazine	8 oz/a	C							
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
7 ANTHEM ATZ	32 oz/a	A	2.5 a	99.0 a	89.3 a	99.0 a	93.5 a	82.5 ab	99.0 a
IMPACT HERBICIDE	0.75 oz/a	C							
Atrazine	8 oz/a	C							
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
8 ANTHEM ATZ	32 oz/a	A	1.3 a	99.0 a	96.5 a	99.0 a	94.8 a	91.3 a	99.0 a
SHARPEN	2 oz/a	A							
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
9 SURESTART	32 oz/a	A	3.8 a	99.0 a	75.0 ab	99.0 a	93.5 a	82.5 ab	94.3 a
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							

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.



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Pest Type			W Weed AMBTR	W Weed CHEAL	W Weed SETFA	W Weed AMBTR	W Weed SETFA		
Pest Code			Ambrosia trifi>	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Setaria faberi		
Pest Scientific Name			Giant ragweed	Common lambsqu>	Giant foxtail	Giant ragweed	Giant foxtail		
Pest Name	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Crop Code	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR		
BBCH Scale	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Scientific Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn		
Crop Name	5-23-2012	5-25-2012	5-25-2012	5-25-2012	5-25-2012	6-4-2012	6-4-2012		
Rating Date	PHYNLS	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Type	%	%	%	%	%	%	%		
Rating Unit	1	1	1	1	1	1	1		
Number of Subsamples	V4	V4	V4	V4	V4	V5	V5		
Crop Stage Majority			1-12 IN	1-6 IN	1-5 IN	1-24 IN	1- 18 IN		
Pest Stage Majority			25 YD2	10 YD2	50 YD2	20 M2	50 M2		
Pest Density, Unit	MW	JS/PM	JS/PM	JS/PM	JS/PM	JS/G	JS/G		
Assessed By	35 13	37 15	37 15	37 15	37 15	47 5	47 5		
Days After First/Last Applic.	35 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1	47 DP-1	47 DP-1		
Plant-Eval Interval	21 DE-1	23 DE-1	23 DE-1	23 DE-1	23 DE-1	33 DE-1	33 DE-1		
Days After Emergence	Rate		Rate		Rate		Rate		
Trt Treatment	Rate	Appl	8	9	10	11	12	13	14
No. Name	Rate Unit	Code							
1 UNTREATED			0.0 b	0.0 c	0.0 c	0.0 b	0.0 c	0.0 g	0.0 d
2 ANTHEM ATZ	32 oz/a	A	0.0 b	0.3 bc	78.8 ab	100.0 a	93.3 a	75.0 a-e	85.0 a
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
3 ANTHEM ATZ	48 oz/a	A	2.0 b	0.5 bc	90.0 ab	100.0 a	94.3 a	82.5 abc	91.3 a
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
4 ANTHEM	8 oz/a	A	1.9 b	0.3 bc	61.7 b	66.9 a	60.7 b	58.8 def	55.0 b
HORNET	3 oz/a	A							
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
5 ANTHEM ATZ	32 oz/a	A	0.0 b	0.0 c	89.5 ab	100.0 a	97.3 a	85.0 ab	88.8 a
HORNET	3 oz/a	A							
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
6 ANTHEM	8 oz/a	A	2.8 b	0.3 bc	76.8 ab	100.0 a	92.5 a	65.0 b-f	81.3 a
IMPACT HERBICIDE	0.75 oz/a	C							
Atrazine	8 oz/a	C							
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
7 ANTHEM ATZ	32 oz/a	A	2.0 b	0.3 bc	83.0 ab	100.0 a	95.3 a	73.8 a-e	87.5 a
IMPACT HERBICIDE	0.75 oz/a	C							
Atrazine	8 oz/a	C							
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
8 ANTHEM ATZ	32 oz/a	A	0.0 b	0.3 bc	93.0 a	100.0 a	96.5 a	88.8 a	88.3 a
SHARPEN	2 oz/a	A							
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
9 SURESTART	32 oz/a	A	0.8 b	0.3 bc	81.8 ab	93.8 a	94.5 a	78.8 a-d	82.5 a
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							



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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	CHEAL	AMBTR	SETFA	CHEAL	SETFA	AMBTR			
Pest Scientific Name	Chenopodium al>	Ambrosia trifi>	Setaria faberi	Chenopodium al>	Setaria faberi	Ambrosia trifi>			
Pest Name	Common lambsqu>	Giant ragweed	Giant foxtail	Common lambsqu>	Giant foxtail	Giant ragweed			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn			
Rating Date	6-4-2012	6-11-2012	6-11-2012	6-11-2012	6-26-2012	6-26-2012			
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority	V5	V6-V7	V6-V7	V6-V7	V6-V7	V12-V13			
Pest Stage Majority	1-12 IN	2-25 IN	1-16 IN	2015 IN	6-30 IN	6-48 IN			
Pest Density, Unit	10 M2	20 M2	50 M2	10 M2	60 M2	15 M2			
Assessed By	JS/G	JS/G	JS/G	JS/G	JS/JR	JS/JR			
Days After First/Last Applic.	47 5	54 12	54 12	54 12	69 27	69 27			
Plant-Eval Interval	47 DP-1	54 DP-1	54 DP-1	54 DP-1	69 DP-1	69 DP-1			
Days After Emergence	33 DE-1	40 DE-1	40 DE-1	40 DE-1	55 DE-1	55 DE-1			
Trt Treatment	Rate	Appl	15	16	17	18	19	20	21
No. Name	Rate Unit	Code							
1 UNTREATED			0.0 b	0.0 a	0.0 d	0.0 b	0.0 b	0.0 d	0.0 d
2 ANTHEM ATZ	32 oz/a	A	100.0 a	0.0 a	94.3 a	100.0 a	100.0 a	98.3 a	92.5 ab
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
3 ANTHEM ATZ	48 oz/a	A	100.0 a	0.0 a	97.5 a	100.0 a	100.0 a	98.3 a	95.8 a
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
4 ANTHEM	8 oz/a	A	92.5 a	0.0 a	80.8 ab	93.8 a	97.5 a	96.3 a	82.5 ab
HORNET	3 oz/a	A							
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
5 ANTHEM ATZ	32 oz/a	A	100.0 a	0.0 a	97.8 a	99.5 a	100.0 a	99.5 a	98.3 a
HORNET	3 oz/a	A							
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
6 ANTHEM	8 oz/a	A	100.0 a	0.0 a	75.0 b	93.8 a	100.0 a	97.8 a	75.0 b
IMPACT HERBICIDE	0.75 oz/a	C							
Atrazine	8 oz/a	C							
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
7 ANTHEM ATZ	32 oz/a	A	100.0 a	0.0 a	85.5 ab	98.8 a	100.0 a	95.8 a	81.3 ab
IMPACT HERBICIDE	0.75 oz/a	C							
Atrazine	8 oz/a	C							
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
8 ANTHEM ATZ	32 oz/a	A	100.0 a	0.0 a	99.5 a	100.0 a	100.0 a	94.5 a	97.5 a
SHARPEN	2 oz/a	A							
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							
9 SURESTART	32 oz/a	A	100.0 a	0.0 a	85.8 ab	100.0 a	100.0 a	99.5 a	92.8 ab
ROUNDUP POWERMAX	32 oz/a	C							
AMS - Liquid	17 lb ai/100 gal	C							



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Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Code		ZEAMD	ZEAMD	
BBCH Scale		BCOR	BCOR	
Crop Scientific Name		Zea mays inden>	Zea mays inden>	
Crop Name		Dent corn	Dent corn	
Rating Date		9-19-2012	9-19-2012	
Rating Type		MOICON	YIELD	
Rating Unit		%	bu/ac	
Number of Subsamples		1	1	
Crop Stage Majority				
Pest Stage Majority				
Pest Density, Unit				
Assessed By				
Days After First/Last Applic.		154 112	154 112	
Plant-Eval Interval		154 DP-1	154 DP-1	
Days After Emergence		140 DE-1	140 DE-1	
Trt No.	Treatment Name	Rate	Appl Code	
		Rate Unit		
1	UNTREATED			22 23
				21.520 b 73.25 ab
2	ANTHEM ATZ	32 oz/a	A	22.395 b 102.10 ab
	ROUNDUP POWERMAX	32 oz/a	C	
	AMS - Liquid	17 lb ai/100 gal	C	
3	ANTHEM ATZ	48 oz/a	A	21.188 b 117.58 a
	ROUNDUP POWERMAX	32 oz/a	C	
	AMS - Liquid	17 lb ai/100 gal	C	
4	ANTHEM	8 oz/a	A	23.465 ab 79.13 ab
	HORNET	3 oz/a	A	
	ROUNDUP POWERMAX	32 oz/a	C	
	AMS - Liquid	17 lb ai/100 gal	C	
5	ANTHEM ATZ	32 oz/a	A	23.405 ab 79.60 ab
	HORNET	3 oz/a	A	
	ROUNDUP POWERMAX	32 oz/a	C	
	AMS - Liquid	17 lb ai/100 gal	C	
6	ANTHEM	8 oz/a	A	22.665 b 91.23 ab
	IMPACT HERBICIDE	0.75 oz/a	C	
	Atrazine	8 oz/a	C	
	ROUNDUP POWERMAX	32 oz/a	C	
	AMS - Liquid	17 lb ai/100 gal	C	
7	ANTHEM ATZ	32 oz/a	A	21.750 b 99.40 ab
	IMPACT HERBICIDE	0.75 oz/a	C	
	Atrazine	8 oz/a	C	
	ROUNDUP POWERMAX	32 oz/a	C	
	AMS - Liquid	17 lb ai/100 gal	C	
8	ANTHEM ATZ	32 oz/a	A	21.155 b 99.85 ab
	SHARPEN	2 oz/a	A	
	ROUNDUP POWERMAX	32 oz/a	C	
	AMS - Liquid	17 lb ai/100 gal	C	
9	SURESTART	32 oz/a	A	21.398 b 122.03 a
	ROUNDUP POWERMAX	32 oz/a	C	
	AMS - Liquid	17 lb ai/100 gal	C	

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Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Code		ZEAMD	ZEAMD
BBCH Scale		BCOR	BCOR
Crop Scientific Name		Zea mays inden>	Zea mays inden>
Crop Name		Dent corn	Dent corn
Rating Date		9-19-2012	9-19-2012
Rating Type		MOICON	YIELD
Rating Unit		%	bu/ac
Number of Subsamples		1	1
Crop Stage Majority			
Pest Stage Majority			
Pest Density, Unit			
Assessed By			
Days After First/Last Applic.		154 112	154 112
Plant-Eval Interval		154 DP-1	154 DP-1
Days After Emergence		140 DE-1	140 DE-1
Trt No.	Treatment Name	Rate Rate Unit	Appl Code
			22
			23
10	ANTHEM ATZ	32 oz/a	B
	ROUNDUP POWERMAX	32 oz/a	B
	AMS - Liquid	17 lb ai/100 gal	B
			22.210 b
90.40			ab
11	ANTHEM ATZ	32 oz/a	B
	HORNET	3 oz/a	B
	ROUNDUP POWERMAX	32 oz/a	B
	AMS - Liquid	17 lb ai/100 gal	B
			27.045 a
62.30			b
12	CADET	0.6 oz/a	B
	HORNET	3 oz/a	B
	Atrazine	48 oz/a	B
	ROUNDUP POWERMAX	32 oz/a	B
	AMS - Liquid	17 lb ai/100 gal	B
			25.915 ab
65.88			b
LSD (P=.05)			2.8912
Standard Deviation			2.0024
CV			8.77
Bartlett's X2			22.521
P(Bartlett's X2)			0.021*
Replicate F			1.701
Replicate Prob(F)			0.1859
Treatment F			3.542
Treatment Prob(F)			0.0023
			29.744
			20.600
			22.83
			12.071
			0.358
			1.024
			0.3944
			3.406
			0.0031

# Purdue University

## 2012/CORN/ANTHEM/ATZ/GIANT RAGWEED/

Trial ID: 12S-THP-CTC0-09      Protocol ID: 12S-THP-CTC0-09  
 Location: Throckmorton      Study Director: White/Marquardt  
 Project ID: PYRX.COR.12.JPR.01(a)      Investigator: Dr. Bill Johnson  
 Sponsor Contact: FMC - Joe Reed

### 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

ZEAMX, BCOR, Zea mays, = US  
 ZEAMD, BCOR, Zea mays indentata, = US

### Rating Type

PHYCHL = phytotoxicity - chlorosis  
 CONTRO = control / burndown or knockdown  
 PHYNLS = phytotoxicity - necrosis, leaf spot  
 PHYGEN = phytotoxicity - general / injury  
 MOICON = moisture content  
 YIELD = yield

### Rating Unit

% = percent  
 bu/ac = bushels per acre

FT2 = per square foot  
 YD2 = per square yard  
 M2 = per square meter

### Plant-Eval Interval

22 DP-1 = 1 ZEAMD 4-18-2012  
 35 DP-1 = 1 ZEAMD 4-18-2012  
 37 DP-1 = 1 ZEAMD 4-18-2012  
 47 DP-1 = 1 ZEAMD 4-18-2012  
 54 DP-1 = 1 ZEAMD 4-18-2012  
 69 DP-1 = 1 ZEAMD 4-18-2012  
 154 DP-1 = 1 ZEAMD 4-18-2012