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2014/CORN/ANTHEM/ANTHEM ATZ/PRE-POST /EAST

Trial ID: 14S-THP-CTC-04 Protocol ID: 14S-THP-CTC-04
 Location: Throckmorton Study Director:
 Project ID: PYRX.COR.14.JPR.02 Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC - Joe Reed

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

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: ZEAMD Zea mays indentata Dent corn
Variety: Dekalb DKC 62-08 **Description:** HXX, LL, RR2
BBCH Scale: BCOR **Planting Date:** May-5-2014
Planting Method: SEEDED seeded **Rate, Unit:** 33000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: FINE fine
Soil Moisture: DRY dry **Emergence Date:** May-12-2014

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:** CHEAL Chenopodium album
Common Name: Common lambsquarters

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 FT² **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

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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-6-2014	Jun-3-2014
Application Method:	SPRAY	SPRAY
Application Timing:	ATPLAN	EAPOCR
Application Placement:	SOIL	FOLIAR
Air Temperature, Unit:	75.1 F	72 F
% Relative Humidity:	32.5	83
Wind Velocity, Unit:	9.6 mph	8 mph
Wind Direction:	SW	SW
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	67.5 F	71 F
Soil Moisture:	dry	moist
% Cloud Cover:	10	0

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMD BCOR	ZEAMD BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V3

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	AMBTR W
Height, Unit:	3 IN
Height Minimum, Maximum:	1 4
Density, Unit:	4 YD2
Pest 2 Code, Type, Scale:	SETFA W
Height, Unit:	1 IN
Density, Unit:	3 FT2
Pest 3 Code, Type, Scale:	CHEAL W
Height, Unit:	1.5 IN
Height Minimum, Maximum:	1 2
Density, Unit:	6 FT2

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Application Equipment

	A	B
Appl. Equipment:	CO2 FORD	CO2 FORD
Equipment Type:	SPTRMO	SPTRMO
Operation Pressure, Unit:	25 PSI	25 PSI
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
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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 Project ID: PYRX.COR.14.JPR.02 Investigator: Dr. Bill Johnson
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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 Rate	Unit	Growth Stage	Appl Code	Appl Description	Amt Product to Measure	Rep 1	2	3	4
1	Untreated Check													101	405	702	805
2	ANTHEM	2.15 LB/GAL	SE	2.15 oz ai/a	8 fl oz/a	ATPLAN A							7.812 ml/mx	102	404	602	804
	CADET	0.91 LB/GAL	EC	0.102 oz ai/a	0.9 oz/a	EAPOCR B					V3		0.8756 ml/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL	22 oz ai/a	32 fl oz/a	EAPOCR B							31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL	8.5 lb ai/100 gal	10 qt/100 gal	EAPOCR B							62.49 ml/mx				
	MUSTANG MAX	0.8 LB/GAL	EC	0.256 oz ai/a	2.56 oz/a	EAPOCR B							2.5 ml/mx				
3	ANTHEM ATZ	4.5 LB/GAL	SE	1.13 lb ai/a	32 fl oz/a	ATPLAN A							31.39 ml/mx	104	502	704	901
	CADET	0.91 LB/GAL	EC	0.102 oz ai/a	0.9 oz/a	EAPOCR B					V3		0.8756 ml/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL	22 oz ai/a	32 fl oz/a	EAPOCR B							31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL	8.5 lb ai/100 gal	10 qt/100 gal	EAPOCR B							62.49 ml/mx				
	MUSTANG MAX	0.8 LB/GAL	EC	0.256 oz ai/a	2.56 oz/a	EAPOCR B							2.5 ml/mx				
4	ANTHEM	2.15 LB/GAL	SE	2.15 oz ai/a	8 fl oz/a	ATPLAN A							7.812 ml/mx	105	402	605	904
	STANZA	78.5 %W/W	WDG	2.36 oz ai/a	3 oz/a	EAPOCR B					V3		2.814 g/mx				
	CADET	0.91 LB/GAL	EC	0.102 oz ai/a	0.9 oz/a	EAPOCR B							0.8756 ml/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL	22 oz ai/a	32 fl oz/a	EAPOCR B							31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL	8.5 lb ai/100 gal	10 qt/100 gal	EAPOCR B							62.49 ml/mx				
	MUSTANG MAX	0.8 LB/GAL	EC	0.256 oz ai/a	2.56 oz/a	EAPOCR B							2.5 ml/mx				
5	ANTHEM ATZ	4.5 LB/GAL	SE	1.13 lb ai/a	32 fl oz/a	ATPLAN A							31.39 ml/mx	201	505	705	905
	SOLSTICE	4 LB/GAL	SC	1.5 oz ai/a	3 oz/a	EAPOCR B					V3		2.929 ml/mx				
	CADET	0.91 LB/GAL	EC	0.102 oz ai/a	0.9 oz/a	EAPOCR B							0.8756 ml/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL	22 oz ai/a	32 fl oz/a	EAPOCR B							31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL	8.5 lb ai/100 gal	10 qt/100 gal	EAPOCR B							62.49 ml/mx				
	MUSTANG MAX	0.8 LB/GAL	EC	0.256 oz ai/a	2.56 oz/a	EAPOCR B							2.5 ml/mx				
6	ANTHEM	2.15 LB/GAL	SE	2.15 oz ai/a	8 fl oz/a	EAPOCR B							7.812 ml/mx	202	501	802	1005
	STANZA	78.5 %W/W	WDG	2.36 oz ai/a	3 oz/a	EAPOCR B					V3		2.814 g/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL	22 oz ai/a	32 fl oz/a	EAPOCR B							31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL	8.5 lb ai/100 gal	10 qt/100 gal	EAPOCR B							62.49 ml/mx				
	MUSTANG MAX	0.8 LB/GAL	EC	0.256 oz ai/a	2.56 oz/a	EAPOCR B							2.5 ml/mx				
7	ANTHEM ATZ	4.5 LB/GAL	SE	1.13 lb ai/a	32 fl oz/a	EAPOCR B							31.39 ml/mx	204	401	601	902
	STANZA	78.5 %W/W	WDG	2.36 oz ai/a	3 oz/a	EAPOCR B					V3		2.814 g/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL	22 oz ai/a	32 fl oz/a	EAPOCR B							31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL	8.5 lb ai/100 gal	10 qt/100 gal	EAPOCR B							62.49 ml/mx				
	MUSTANG MAX	0.8 LB/GAL	EC	0.256 oz ai/a	2.56 oz/a	EAPOCR B							2.5 ml/mx				
8	ANTHEM ATZ	4.5 LB/GAL	SE	1.13 lb ai/a	32 fl oz/a	EAPOCR B							31.39 ml/mx	205	305	604	1004
	SOLSTICE	4 LB/GAL	SC	1.5 oz ai/a	3 oz/a	EAPOCR B					V3		2.929 ml/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL	22 oz ai/a	32 fl oz/a	EAPOCR B							31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL	8.5 lb ai/100 gal	10 qt/100 gal	EAPOCR B							62.49 ml/mx				
	MUSTANG MAX	0.8 LB/GAL	EC	0.256 oz ai/a	2.56 oz/a	EAPOCR B							2.5 ml/mx				
9	SOLSTICE	4 LB/GAL	SC	1.5 oz ai/a	3 oz/a	EAPOCR B							2.929 ml/mx	301	304	701	1001
	Atrazine	4 LBA/GAL	F	0.5 lb ai/a	16 oz/a	EAPOCR B					V3		15.62 ml/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL	SL	22 oz ai/a	32 fl oz/a	EAPOCR B							31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL	8.5 lb ai/100 gal	10 qt/100 gal	EAPOCR B							62.49 ml/mx				
	MUSTANG MAX	0.8 LB/GAL	EC	0.256 oz ai/a	2.56 oz/a	EAPOCR B							2.5 ml/mx				
10	SOLSTICE	4 LB/GAL	SC	1.5 oz ai/a	3 oz/a	EAPOCR B							2.929 ml/mx	302	504	801	1002
	ROUNDUP POWERMAX	5.5 LB/GAL	SL	22 oz ai/a	32 fl oz/a	EAPOCR B					V3		31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL	8.5 lb ai/100 gal	10 qt/100 gal	EAPOCR B							62.49 ml/mx				
	MUSTANG MAX	0.8 LB/GAL	EC	0.256 oz ai/a	2.56 oz/a	EAPOCR B							2.5 ml/mx				
11	ARMEZON	2.8 LBAE/GAL	EC	0.263 oz ae/a	0.75 oz/a	EAPOCR B							0.7337 ml/mx	103	403	606	1006
	ROUNDUP POWERMAX	5.5 LB/GAL	SL	22 oz ai/a	32 fl oz/a	EAPOCR B					V3		31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL	SL	8.5 lb ai/100 gal	10 qt/100 gal	EAPOCR B							62.49 ml/mx				
	MUSTANG MAX	0.8 LB/GAL	EC	0.256 oz ai/a	2.56 oz/a	EAPOCR B							2.5 ml/mx				

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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	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Appl Description	Amt Product to Measure	Rep 1	2	3	4
12	Resolve (25 SG)	25 %		WG	0.3 oz ai/a		1.2 oz/a		EAPOCR B	V3		1.123 g/mx	106	306	706	903
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a		2.5 oz/a		EAPOCR B	Realm Q		2.34 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.15 oz ai/a		0.3 oz/a		EAPOCR B	Realm Q		0.2808 g/mx				
	ROUNDUP POWERMAX	5.5 LB/GAL		SL	22 oz ai/a		32 fl oz/a		EAPOCR B			31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		EAPOCR B			62.49 ml/mx				
	MUSTANG MAX	0.8 LB/GAL		EC	0.256 oz ai/a		2.56 oz/a		EAPOCR B			2.5 ml/mx				
13	CORVUS	2.63 LB/GAL		SC	1.84 oz ai/a		5.6 oz/a		EAPOCR B	V3		5.465 ml/mx	203	506	603	906
	Atrazine	4 LBA/GAL		F	1 lb ai/a		32 fl oz/a		EAPOCR B			31.25 ml/mx				
	MUSTANG MAX	0.8 LB/GAL		EC	2.56 oz/a		2.56 oz/a		EAPOCR B			2.5 ml/mx				
14	LUMAX EZ	3.67 LB/GAL		SC	2.48 lb ai/a		2.7 qt/a		EAPOCR B	V3		84.46 ml/mx	206	406	803	806
	MUSTANG MAX	0.8 LB/GAL		EC	2.56 oz/a		2.56 oz/a		EAPOCR B			2.5 ml/mx				
15	ROUNDUP POWERMAX	5.5 LB/GAL		SL	22 oz ai/a		32 fl oz/a		EAPOCR B	V3		31.25 ml/mx	303	503	703	1003
	AMS - Liquid	3.4 LB/GAL		SL	8.5 lb ai/100 gal		10 qt/100 gal		EAPOCR B			62.49 ml/mx				
	MUSTANG MAX	0.8 LB/GAL		EC	0.256 oz ai/a		2.56 oz/a		EAPOCR B			2.5 ml/mx				

Sort Order: Treatment

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Trial ID: 14S-THP-CTC-04 Protocol ID: 14S-THP-CTC-04
 Location: Throckmorton Study Director:
 Project ID: PYRX.COR.14.JPR.02 Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC - Joe Reed

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	ZEAMX				ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR				BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays				Zea mays	Zea mays	Zea mays
Crop Name	Corn				Corn	Corn	Corn
Rating Date	May-28-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014
Rating Type	PHYBLE	CONTRO	CONTRO	CONTRO	PHYSTU	PHYBLE	PHYNEC
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	V2	V4	V4	V4	V6	V6	V6
Pest Stage Majority		1-2"	1-2"	2-4"			
Pest Density, Unit		6 FT2	2 FT2	1 YD2			
Days After First/Last Applic.	22 22	27 27	27 27	27 27	34 6	34 6	34 6
Plant-Eval Interval	23 DP-1	28 DP-1	28 DP-1	28 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	16 DE-1	21 DE-1	21 DE-1	21 DE-1	28 DE-1	28 DE-1	28 DE-1
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	1	2	3	4	5
1 Untreated Check		101	0.0	0.0	0.0	0.0	0.0
		405	0.0	0.0	0.0	0.0	0.0
		702	0.0	0.0	0.0	0.0	0.0
		805	0.0	0.0	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0	0.0	0.0
2 ANTHEM	2.15 oz ai/a	A 102	0.0	90.0	90.0	0.0	0.0
CADET	0.102 oz ai/a	B 404	0.0	80.0	95.0	0.0	0.0
ROUNDUP POWERMAX	22 oz ai/a	B 602	0.0	80.0	90.0	18.5*	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 804	0.0	99.0	99.0	0.0	0.0
MUSTANG MAX	0.256 oz ai/a	B					
		Mean =	0.0	87.3	93.5	4.6	0.0
3 ANTHEM ATZ	1.13 lb ai/a	A 104	0.0	99.0	99.0	75.0	0.0
CADET	0.102 oz ai/a	B 502	0.0	99.0	99.0	90.0	0.0
ROUNDUP POWERMAX	22 oz ai/a	B 704	5.0	95.0	95.0	60.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 901	5.0	99.0	99.0	95.0	0.0
MUSTANG MAX	0.256 oz ai/a	B					
		Mean =	2.5	98.0	98.0	80.0	0.0
4 ANTHEM	2.15 oz ai/a	A 105	0.0	97.0	95.0	40.0	0.0
STANZA	2.36 oz ai/a	B 402	0.0	85.0	90.0	65.0	5.0
CADET	0.102 oz ai/a	B 605	0.0	99.0	99.0	75.0	7.0
ROUNDUP POWERMAX	22 oz ai/a	B 904	0.0	97.0	95.0	50.0	5.0
AMS - Liquid	8.5 lb ai/100 gal	B					
MUSTANG MAX	0.256 oz ai/a	B					
		Mean =	0.0	94.5	94.8	57.5	4.3
5 ANTHEM ATZ	1.13 lb ai/a	A 201	0.0	97.0	97.0	85.0	3.0
SOLSTICE	1.5 oz ai/a	B 505	0.0	99.0	99.0	50.0	5.0
CADET	0.102 oz ai/a	B 705	4.0	99.0	99.0	70.0	0.0
ROUNDUP POWERMAX	22 oz ai/a	B 905	5.0	99.0	99.0	80.0	3.0
AMS - Liquid	8.5 lb ai/100 gal	B					
MUSTANG MAX	0.256 oz ai/a	B					
		Mean =	2.3	98.5	98.5	71.3	2.8

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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	ZEAMX				ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR				BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays				Zea mays	Zea mays	Zea mays		
Crop Name	Corn				Corn	Corn	Corn		
Rating Date	May-28-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014		
Rating Type	PHYBLE	CONTRO	CONTRO	CONTRO	PHYSTU	PHYBLE	PHYNEC		
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	V2	V4	V4	V4	V6	V6	V6		
Pest Stage Majority		1-2"	1-2"	2-4"					
Pest Density, Unit		6 FT2	2 FT2	1 YD2					
Days After First/Last Applic.	22 22	27 27	27 27	27 27	34 6	34 6	34 6		
Plant-Eval Interval	23 DP-1	28 DP-1	28 DP-1	28 DP-1	35 DP-1	35 DP-1	35 DP-1		
Days After Emergence	16 DE-1	21 DE-1	21 DE-1	21 DE-1	28 DE-1	28 DE-1	28 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6	7
6 ANTHEM	2.15 oz ai/a	B 202	0.0	0.0	0.0	0.0	3.0	0.0	3.0
STANZA	2.36 oz ai/a	B 501	0.0	0.0	0.1*	0.0	5.0	0.0	7.0
ROUNDUP POWERMAX	22 oz ai/a	B 802	0.0	0.0	0.0	70.0	10.0	3.0	3.0
AMS - Liquid	8.5 lb ai/100 gal	B 1005	0.0	30.0	0.0	20.0	10.0	3.0	0.0
MUSTANG MAX	0.256 oz ai/a	B							
		Mean =	0.0	7.5	0.0	22.5	7.0	1.5	3.3
7 ANTHEM ATZ	1.13 lb ai/a	B 204	0.0	20.0	30.0	0.0	3.0	0.0	3.0
STANZA	2.36 oz ai/a	B 401	0.0	0.0	65.0	0.0	5.0	0.0	3.0
ROUNDUP POWERMAX	22 oz ai/a	B 601	0.0	0.0	0.0	70.0	3.0	3.0	5.0
AMS - Liquid	8.5 lb ai/100 gal	B 902	0.0	50.0	0.0	0.0	3.0	0.0	3.0
MUSTANG MAX	0.256 oz ai/a	B							
		Mean =	0.0	17.5	23.8	17.5	3.5	0.8	3.5
8 ANTHEM ATZ	1.13 lb ai/a	B 205	0.0	90.0	0.0	40.0	3.0	10.0	5.0
SOLSTICE	1.5 oz ai/a	B 305	0.0	80.0	0.0	60.0	7.0	7.0	5.0
ROUNDUP POWERMAX	22 oz ai/a	B 604	0.0	65.0	0.4*	60.0	0.0	3.0	10.0
AMS - Liquid	8.5 lb ai/100 gal	B 1004	2.0	75.0	0.0	60.0	0.0	3.0	5.0
MUSTANG MAX	0.256 oz ai/a	B							
		Mean =	0.5	77.5	0.1	55.0	2.5	5.8	6.3
9 SOLSTICE	1.5 oz ai/a	B 301	0.0	0.0	30.0	0.0	0.0	7.0	10.0
Atrazine	0.5 lb ai/a	B 304	0.0	0.0*	30.0	0.0	3.0	15.0	10.0
ROUNDUP POWERMAX	22 oz ai/a	B 701	0.0	0.0	60.0	70.0	0.0	15.0	7.0
AMS - Liquid	8.5 lb ai/100 gal	B 1001	0.0	0.0	70.0	0.0	0.0	15.0	7.0
MUSTANG MAX	0.256 oz ai/a	B							
		Mean =	0.0	0.0	47.5	17.5	0.8	13.0	8.5
10 SOLSTICE	1.5 oz ai/a	B 302	0.0	0.0	0.0	0.0	0.0	7.0	5.0
ROUNDUP POWERMAX	22 oz ai/a	B 504	0.0	0.0*	0.1*	0.0	0.0	10.0	7.0
AMS - Liquid	8.5 lb ai/100 gal	B 801	0.0	0.0	0.0	60.0	5.0	7.0	5.0
MUSTANG MAX	0.256 oz ai/a	B 1002	3.0	0.0	0.0	0.0	0.0	3.0	5.0
		Mean =	0.8	0.0	0.0	15.0	1.3	6.8	5.5
11 ARMEZON	0.263 oz ae/a	B 103	0.0	0.0	85.0	0.0	0.0	5.0	10.0
ROUNDUP POWERMAX	22 oz ai/a	B 403	0.0	30.0	0.0	70.0	0.0	0.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 606	3.0	70.0	65.0	10.0	0.0	0.0	0.0
MUSTANG MAX	0.256 oz ai/a	B 1006	5.0	50.0	0.0	0.0	0.0	0.0	0.0
		Mean =	2.0	37.5	37.5	20.0	0.0	1.3	2.5

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	ZEAMX				ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR				BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays				Zea mays	Zea mays	Zea mays		
Crop Name	Corn				Corn	Corn	Corn		
Rating Date	May-28-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014		
Rating Type	PHYBLE	CONTRO	CONTRO	CONTRO	PHYSTU	PHYBLE	PHYNEC		
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	V2	V4	V4	V4	V6	V6	V6		
Pest Stage Majority		1-2"	1-2"	2-4"					
Pest Density, Unit		6 FT2	2 FT2	1 YD2					
Days After First/Last Applic.	22 22	27 27	27 27	27 27	34 6	34 6	34 6		
Plant-Eval Interval	23 DP-1	28 DP-1	28 DP-1	28 DP-1	35 DP-1	35 DP-1	35 DP-1		
Days After Emergence	16 DE-1	21 DE-1	21 DE-1	21 DE-1	28 DE-1	28 DE-1	28 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6	7
12 Resolve (25 SG)	0.3 oz ai/a	B 106	0.0	99.0	14.3*	70.0	10.0	0.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B 306	0.0	90.0	0.0	30.0	10.0	0.0	0.0
Isoxadifen (50 WG)	0.15 oz ai/a	B 706	0.0	99.0	20.0	0.0	10.0	0.0	0.0
ROUNDUP POWERMAX	22 oz ai/a	B 903	0.0	30.0	0.0	0.0	0.0	0.0	3.0
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
	Mean =		0.0	79.5	8.6	25.0	7.5	0.0	0.8
13 CORVUS	1.84 oz ai/a	B 203	0.0	0.0	50.0	50.0	5.0	0.0	5.0
Atrazine	1 lb ai/a	B 506	0.0	90.0	70.0	0.0	25.0	10.0	0.0
MUSTANG MAX	2.56 oz/a	B 603	4.0	0.0	0.0	85.0	20.0	5.0	0.0
		906	2.0	90.0	20.0	0.0	25.0	7.0	0.0
	Mean =		1.5	45.0	35.0	33.8	18.8	5.5	1.3
14 LUMAX EZ	2.48 lb ai/a	B 206	0.0	90.0	70.0	0.0	0.0	0.0	3.0
MUSTANG MAX	2.56 oz/a	B 406	0.0	40.0	10.0	0.0	0.0	0.0	0.0
		803	0.0	69.3*	0.0	0.0	7.0	0.0	3.0
		806	2.0	95.0	0.0	0.0	0.0	0.0	0.0
	Mean =		0.5	73.6	20.0	0.0	1.8	0.0	1.5
15 ROUNDUP POWERMAX	22 oz ai/a	B 303	0.0	70.0	0.0	60.0	0.0	5.0	5.0
AMS - Liquid	8.5 lb ai/100 gal	B 503	0.0	30.0	16.8*	85.0	0.0	0.0	0.0
MUSTANG MAX	0.256 oz ai/a	B 703	4.0	0.0	50.0	20.0	0.0	0.0	0.0
		1003	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Mean =		1.0	25.0	16.7	41.3	0.0	1.3	1.3

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Pest Type						W Weed AMBTR	W Weed SETFA		
Pest Code						Ambrosia trifi>	Setaria faberi		
Pest Scientific Name						Giant ragweed	Giant foxtail		
Pest Name									
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				
Rating Date	Jun-9-2014	Jun-9-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jul-3-2014	Jul-3-2014		
Rating Type	PHYLMA	GOOSEN	PHYNEC	PHYSTU	PHYBLE	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	1		
Crop Stage Majority	V6	V6	V7	V7	V7	V8	V8		
Pest Stage Majority						2-72"	1-15"		
Pest Density, Unit						2 FT2	6 FT2		
Days After First/Last Applic.	34 6	34 6	41 13	41 13	41 13	58 30	58 30		
Plant-Eval Interval	35 DP-1	35 DP-1	42 DP-1	42 DP-1	42 DP-1	59 DP-1	59 DP-1		
Days After Emergence	28 DE-1	28 DE-1	35 DE-1	35 DE-1	35 DE-1	52 DE-1	52 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot	8	9	10	11	12	13	14
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 ANTHEM	2.15 oz ai/a	A 102	0.0	5.0	0.0	0.0	0.0	75.0	99.0
CADET	0.102 oz ai/a	B 404	3.0	0.0	5.0	0.0	0.0	65.0	85.0
ROUNDUP POWERMAX	22 oz ai/a	B 602	5.0	0.0	3.0	0.0	0.0	85.0	90.0
AMS - Liquid	8.5 lb ai/100 gal	B 804	0.0	3.0	5.0	0.0	0.0	60.0	70.0
MUSTANG MAX	0.256 oz ai/a	B							
		Mean =	2.0	2.0	3.3	0.0	0.0	71.3	86.0
3 ANTHEM ATZ	1.13 lb ai/a	A 104	0.0	0.0	0.0	0.0	0.0	65.0	99.0
CADET	0.102 oz ai/a	B 502	5.0	0.0	5.0	0.0	0.0	75.0	99.0
ROUNDUP POWERMAX	22 oz ai/a	B 704	0.0	7.0	3.0	3.0	0.0	60.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B 901	3.0	5.0	7.0	0.0	0.0	80.0	99.0
MUSTANG MAX	0.256 oz ai/a	B							
		Mean =	2.0	3.0	3.8	0.8	0.0	70.0	99.0
4 ANTHEM	2.15 oz ai/a	A 105	0.0	0.0	0.0	0.0	0.0	85.0	99.0
STANZA	2.36 oz ai/a	B 402	7.0	0.0	5.0	3.0	0.0	95.0	99.0
CADET	0.102 oz ai/a	B 605	0.0	0.0	3.0	0.0	0.0	95.0	99.0
ROUNDUP POWERMAX	22 oz ai/a	B 904	0.0	0.0	3.0	0.0	0.0	95.0	95.0
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
		Mean =	1.8	0.0	2.8	0.8	0.0	92.5	98.0
5 ANTHEM ATZ	1.13 lb ai/a	A 201	0.0	0.0	7.0	0.0	7.0	99.0	99.0
SOLSTICE	1.5 oz ai/a	B 505	7.0	0.0	7.0	5.0	5.0	90.0	99.0
CADET	0.102 oz ai/a	B 705	0.0	5.0	10.0	5.0	5.0	90.0	99.0
ROUNDUP POWERMAX	22 oz ai/a	B 905	0.0	0.0	5.0	0.0	5.0	95.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
		Mean =	1.8	1.3	7.3	2.5	5.5	93.5	99.0

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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	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				
Rating Date	Jun-9-2014	Jun-9-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jul-3-2014	Jul-3-2014		
Rating Type	PHYLMA	GOOSEN	PHYNEC	PHYSTU	PHYBLE	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	1		
Crop Stage Majority	V6	V6	V7	V7	V7	V8	V8		
Pest Stage Majority						2-72"	1-15"		
Pest Density, Unit						2 FT2	6 FT2		
Days After First/Last Applic.	34 6	34 6	41 13	41 13	41 13	58 30	58 30		
Plant-Eval Interval	35 DP-1	35 DP-1	42 DP-1	42 DP-1	42 DP-1	59 DP-1	59 DP-1		
Days After Emergence	28 DE-1	28 DE-1	35 DE-1	35 DE-1	35 DE-1	52 DE-1	52 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot	8	9	10	11	12	13	14
6 ANTHEM	2.15 oz ai/a	B 202	3.0	0.0	0.0	0.0	0.0	99.0	80.0
STANZA	2.36 oz ai/a	B 501	0.0	0.0	5.0	0.0	0.0	99.0	95.0
ROUNDUP POWERMAX	22 oz ai/a	B 802	3.0	0.0	3.0	0.0	0.0	65.0	90.0
AMS - Liquid	8.5 lb ai/100 gal	B 1005	0.0	0.0	3.0	0.0	0.0	80.0	99.0
MUSTANG MAX	0.256 oz ai/a	B							
		Mean =	1.5	0.0	2.8	0.0	0.0	85.8	91.0
7 ANTHEM ATZ	1.13 lb ai/a	B 204	0.0	3.0	3.0	3.0	0.0	98.0	99.0
STANZA	2.36 oz ai/a	B 401	3.0	0.0	0.0	3.0	0.0	80.0	99.0
ROUNDUP POWERMAX	22 oz ai/a	B 601	0.0	0.0	3.0	5.0	3.0	99.0	85.0
AMS - Liquid	8.5 lb ai/100 gal	B 902	0.0	0.0	3.0	0.0	0.0	98.0	75.0
MUSTANG MAX	0.256 oz ai/a	B							
		Mean =	0.8	0.8	2.3	2.8	0.8	93.8	89.5
8 ANTHEM ATZ	1.13 lb ai/a	B 205	0.0	0.0	3.0	3.0	5.0	99.0	95.0
SOLSTICE	1.5 oz ai/a	B 305	0.0	5.0	5.0	5.0	5.0	99.0	90.0
ROUNDUP POWERMAX	22 oz ai/a	B 604	5.0	0.0	7.0	3.0	0.0	99.0	95.0
AMS - Liquid	8.5 lb ai/100 gal	B 1004	5.0	5.0	5.0	0.0	3.0	90.0	99.0
MUSTANG MAX	0.256 oz ai/a	B							
		Mean =	2.5	2.5	5.0	2.8	3.3	96.8	94.8
9 SOLSTICE	1.5 oz ai/a	B 301	0.0	0.0	10.0	0.0	5.0	50.0	50.0
Atrazine	0.5 lb ai/a	B 304	5.0	3.0	7.0	5.0	7.0	60.0	95.0
ROUNDUP POWERMAX	22 oz ai/a	B 701	7.0	10.0	10.0	0.0	10.0	75.0	90.0
AMS - Liquid	8.5 lb ai/100 gal	B 1001	0.0	0.0	7.0	0.0	10.0	50.0	40.0
MUSTANG MAX	0.256 oz ai/a	B							
		Mean =	3.0	3.3	8.5	1.3	8.0	58.8	68.8
10 SOLSTICE	1.5 oz ai/a	B 302	5.0	5.0	5.0	0.0	5.0	70.0	40.0
ROUNDUP POWERMAX	22 oz ai/a	B 504	0.0	0.0	5.0	0.0	5.0	85.0	90.0
AMS - Liquid	8.5 lb ai/100 gal	B 801	0.0	0.0	7.0	5.0	3.0	95.0	0.0
MUSTANG MAX	0.256 oz ai/a	B 1002	0.0	0.0	3.0	0.0	5.0	70.0	0.0
		Mean =	1.3	1.3	5.0	1.3	4.5	80.0	32.5
11 ARMEZON	0.263 oz ae/a	B 103	0.0	0.0	5.0	3.0	0.0	80.0	60.0
ROUNDUP POWERMAX	22 oz ai/a	B 403	5.0	0.0	0.0	0.0	0.0	90.0	75.0
AMS - Liquid	8.5 lb ai/100 gal	B 606	0.0	0.0	0.0	0.0	0.0	80.0	90.0
MUSTANG MAX	0.256 oz ai/a	B 1006	0.0	0.0	0.0	0.0	0.0	75.0	60.0
		Mean =	1.3	0.0	1.3	0.8	0.0	81.3	71.3

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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	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				
Rating Date	Jun-9-2014	Jun-9-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jul-3-2014	Jul-3-2014		
Rating Type	PHYLMA	GOOSEN	PHYNEC	PHYSTU	PHYBLE	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	1		
Crop Stage Majority	V6	V6	V7	V7	V7	V8	V8		
Pest Stage Majority						2-72"	1-15"		
Pest Density, Unit						2 FT2	6 FT2		
Days After First/Last Applic.	34 6	34 6	41 13	41 13	41 13	58 30	58 30		
Plant-Eval Interval	35 DP-1	35 DP-1	42 DP-1	42 DP-1	42 DP-1	59 DP-1	59 DP-1		
Days After Emergence	28 DE-1	28 DE-1	35 DE-1	35 DE-1	35 DE-1	52 DE-1	52 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot	8	9	10	11	12	13	14
12 Resolve (25 SG)	0.3 oz ai/a	B 106	0.0	0.0	0.0	0.0	0.0	95.0	90.0
Mesotrione (50 WG)	1.25 oz ai/a	B 306	10.0	0.0	0.0	7.0	3.0	99.0	99.0
Isoxadifen (50 WG)	0.15 oz ai/a	B 706	0.0	0.0	0.0	3.0	0.0	40.0	75.0
ROUNDUP POWERMAX	22 oz ai/a	B 903	3.0	0.0	3.0	0.0	0.0	60.0	20.0
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
		Mean =	3.3	0.0	0.8	2.5	0.8	73.5	71.0
13 CORVUS	1.84 oz ai/a	B 203	0.0	0.0	5.0	0.0	0.0	85.0	80.0
Atrazine	1 lb ai/a	B 506	0.0	0.0	0.0	15.0	10.0	30.0	99.0
MUSTANG MAX	2.56 oz/a	B 603	0.0	0.0	0.0	10.0	7.0	99.0	90.0
		906	0.0	0.0	0.0	15.0	10.0	40.0	99.0
		Mean =	0.0	0.0	1.3	10.0	6.8	63.5	92.0
14 LUMAX EZ	2.48 lb ai/a	B 206	3.0	0.0	0.0	0.0	0.0	98.0	75.0
MUSTANG MAX	2.56 oz/a	B 406	5.0	0.0	3.0	0.0	0.0	99.0	40.0
		803	0.0	0.0	0.0	0.0	0.0	98.0	60.0
		806	0.0	3.0	0.0	3.0	0.0	95.0	50.0
		Mean =	2.0	0.8	0.8	0.8	0.0	97.5	56.3
15 ROUNDUP POWERMAX	22 oz ai/a	B 303	0.0	5.0	5.0	5.0	3.0	90.0	85.0
AMS - Liquid	8.5 lb ai/100 gal	B 503	0.0	0.0	0.0	0.0	0.0	80.0	60.0
MUSTANG MAX	0.256 oz ai/a	B 703	0.0	0.0	0.0	0.0	0.0	85.0	70.0
		1003	0.0	0.0	0.0	0.0	0.0	50.0	40.0
		Mean =	0.0	1.3	1.3	1.3	0.8	76.3	63.8

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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	ZEAMX				ZEAMX		ZEAMX	
BBCH Scale	BCOR				BCOR		BCOR	
Crop Scientific Name	Zea mays				Zea mays		Zea mays	
Crop Name	Corn				Corn		Corn	
Rating Date	Jul-3-2014	Jul-3-2014	Aug-4-2014	Aug-4-2014	Oct-30-2014	Oct-30-2014		
Rating Type	CONTRO	PHYSTU	CONTRO	CONTRO	MOICON	YIELD		
Rating Unit	%	%	%	%	%	bu/ac		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT			
Number of Subsamples	1	1	1	1	1	1	1	
Crop Stage Majority	V8	V8						
Pest Stage Majority	1-35"		37"	120"				
Pest Density, Unit	2 YD2		6 FT2	2 FT2				
Days After First/Last Applic.	58 30	58 30	90 62	90 62	177 149	177 149		
Plant-Eval Interval	59 DP-1	59 DP-1	91 DP-1	91 DP-1	178 DP-1	178 DP-1		
Days After Emergence	52 DE-1	52 DE-1	84 DE-1	84 DE-1	171 DE-1	171 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	15	16	17	18	19	20
1 Untreated Check		101	0.0	0.0	0.0	0.0	18.500	94.10
		405	0.0	0.0	0.0	0.0	19.050	52.40
		702	0.0	0.0	0.0	0.0	17.990	90.40
		805	0.0	0.0	0.0	0.0	17.910	39.60
		Mean =	0.0	0.0	0.0	0.0	18.363	69.13
2 ANTHEM	2.15 oz ai/a	A 102	99.0	0.0	97.0	84.0	18.580	222.10
CADET	0.102 oz ai/a	B 404	99.0	0.0	95.0	75.0	21.160	242.80
ROUNDUP POWERMAX	22 oz ai/a	B 602	99.0	0.0	95.0	92.0	17.850	266.70
AMS - Liquid	8.5 lb ai/100 gal	B 804	99.0	0.0	95.0	80.0	18.950	252.40
MUSTANG MAX	0.256 oz ai/a	B						
		Mean =	99.0	0.0	95.5	82.8	19.135	246.00
3 ANTHEM ATZ	1.13 lb ai/a	A 104	99.0	0.0	99.0	70.0	19.600	248.80
CADET	0.102 oz ai/a	B 502	99.0	0.0	98.0	87.0	18.260	279.70
ROUNDUP POWERMAX	22 oz ai/a	B 704	99.0	0.0	94.0	87.0	18.360	223.00
AMS - Liquid	8.5 lb ai/100 gal	B 901	99.0	0.0	93.0	87.0	18.080	227.70
MUSTANG MAX	0.256 oz ai/a	B						
		Mean =	99.0	0.0	96.0	82.8	18.575	244.80
4 ANTHEM	2.15 oz ai/a	A 105	99.0	0.0	99.0	93.0	19.390	285.90
STANZA	2.36 oz ai/a	B 402	99.0	0.0	94.0	95.0	19.280	266.70
CADET	0.102 oz ai/a	B 605	99.0	0.0	98.0	95.0	19.370	281.50
ROUNDUP POWERMAX	22 oz ai/a	B 904	99.0	0.0	97.0	96.0	18.330	262.10
AMS - Liquid	8.5 lb ai/100 gal	B						
MUSTANG MAX	0.256 oz ai/a	B						
		Mean =	99.0	0.0	97.0	94.8	19.093	274.05
5 ANTHEM ATZ	1.13 lb ai/a	A 201	99.0	0.0	98.0	99.0	17.970	288.80
SOLSTICE	1.5 oz ai/a	B 505	99.0	4.0	98.0	96.0	18.600	237.00
CADET	0.102 oz ai/a	B 705	99.0	0.0	98.0	96.0	17.870	238.60
ROUNDUP POWERMAX	22 oz ai/a	B 905	99.0	0.0	99.0	94.0	18.190	254.10
AMS - Liquid	8.5 lb ai/100 gal	B						
MUSTANG MAX	0.256 oz ai/a	B						
		Mean =	99.0	1.0	98.3	96.3	18.158	254.63

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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	ZEAMX						ZEAMX	
BBCH Scale	BCOR						BCOR	
Crop Scientific Name	Zea mays						Zea mays	
Crop Name	Corn						Corn	
Rating Date	Jul-3-2014	Jul-3-2014	Aug-4-2014	Aug-4-2014	Oct-30-2014	Oct-30-2014		
Rating Type	CONTRO	PHYSTU	CONTRO	CONTRO	MOICON	YIELD		
Rating Unit	%	%	%	%	%	bu/ac		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1	1	
Number of Subsamples	1	1	1	1	1	1	1	
Crop Stage Majority	V8	V8						
Pest Stage Majority	1-35"		37"	120"				
Pest Density, Unit	2 YD2		6 FT2	2 FT2				
Days After First/Last Applic.	58 30	58 30	90 62	90 62	177 149	177 149		
Plant-Eval Interval	59 DP-1	59 DP-1	91 DP-1	91 DP-1	178 DP-1	178 DP-1		
Days After Emergence	52 DE-1	52 DE-1	84 DE-1	84 DE-1	171 DE-1	171 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	15	16	17	18	19	20
6 ANTHEM	2.15 oz ai/a	B 202	99.0	0.0	94.0	96.0	19.250	278.70
STANZA	2.36 oz ai/a	B 501	99.0	3.0	95.0	94.0	19.160	250.20
ROUNDUP POWERMAX	22 oz ai/a	B 802	99.0	0.0	94.0	95.0	17.610	240.50
AMS - Liquid	8.5 lb ai/100 gal	B 1005	99.0	0.0	98.0	96.0	18.690	305.70
MUSTANG MAX	0.256 oz ai/a	B						
		Mean =	99.0	0.8	95.3	95.3	18.678	268.78
7 ANTHEM ATZ	1.13 lb ai/a	B 204	99.0	0.0	99.0	96.0	19.710	285.10
STANZA	2.36 oz ai/a	B 401	99.0	7.0	94.0	90.0	19.700	292.40
ROUNDUP POWERMAX	22 oz ai/a	B 601	99.0	0.0	92.0	95.0	18.300	276.90
AMS - Liquid	8.5 lb ai/100 gal	B 902	99.0	0.0	94.0	96.0	17.800	270.70
MUSTANG MAX	0.256 oz ai/a	B						
		Mean =	99.0	1.8	94.8	94.3	18.878	281.28
8 ANTHEM ATZ	1.13 lb ai/a	B 205	99.0	0.0	98.0	98.0	19.680	269.20
SOLSTICE	1.5 oz ai/a	B 305	99.0	0.0	96.0	97.0	19.320	257.40
ROUNDUP POWERMAX	22 oz ai/a	B 604	99.0	0.0	98.0	97.0	18.420	246.60
AMS - Liquid	8.5 lb ai/100 gal	B 1004	99.0	0.0	98.0	99.0	18.050	252.10
MUSTANG MAX	0.256 oz ai/a	B						
		Mean =	99.0	0.0	97.5	97.8	18.868	256.33
9 SOLSTICE	1.5 oz ai/a	B 301	99.0	0.0	84.0	60.0	19.130	235.80
Atrazine	0.5 lb ai/a	B 304	99.0	0.0	90.0	86.0	20.170	253.20
ROUNDUP POWERMAX	22 oz ai/a	B 701	99.0	0.0	90.0	89.0	17.920	287.50
AMS - Liquid	8.5 lb ai/100 gal	B 1001	99.0	0.0	80.0	92.0	17.640	276.70
MUSTANG MAX	0.256 oz ai/a	B						
		Mean =	99.0	0.0	86.0	81.8	18.715	263.30
10 SOLSTICE	1.5 oz ai/a	B 302	99.0	0.0	85.0	86.0	20.080	266.40
ROUNDUP POWERMAX	22 oz ai/a	B 504	99.0	0.0	90.0	93.0	18.480	275.30
AMS - Liquid	8.5 lb ai/100 gal	B 801	99.0	0.0	75.0	90.0	18.000	237.00
MUSTANG MAX	0.256 oz ai/a	B 1002	99.0	0.0	80.0	90.0	18.210	256.70
		Mean =	99.0	0.0	82.5	89.8	18.693	258.85
11 ARMEZON	0.263 oz ae/a	B 103	99.0	0.0	89.0	80.0	17.920	273.30
ROUNDUP POWERMAX	22 oz ai/a	B 403	99.0	0.0	87.0	96.0	19.200	274.10
AMS - Liquid	8.5 lb ai/100 gal	B 606	99.0	0.0	92.0	87.0	18.150	269.30
MUSTANG MAX	0.256 oz ai/a	B 1006	99.0	0.0	93.0	95.0	18.890	288.60
		Mean =	99.0	0.0	90.3	89.5	18.540	276.33

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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	ZEAMX						ZEAMX		ZEAMX	
BBCH Scale	BCOR						BCOR		BCOR	
Crop Scientific Name	Zea mays						Zea mays		Zea mays	
Crop Name	Corn						Corn		Corn	
Rating Date	Jul-3-2014	Jul-3-2014	Aug-4-2014	Aug-4-2014	Oct-30-2014	Oct-30-2014				
Rating Type	CONTRO	PHYSTU	CONTRO	CONTRO	MOICON	YIELD				
Rating Unit	%	%	%	%	%	bu/ac				
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1				
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority	V8	V8								
Pest Stage Majority	1-35"		37"	120"						
Pest Density, Unit	2 YD2		6 FT2	2 FT2						
Days After First/Last Applic.	58 30	58 30	90 62	90 62	177 149	177 149				
Plant-Eval Interval	59 DP-1	59 DP-1	91 DP-1	91 DP-1	178 DP-1	178 DP-1				
Days After Emergence	52 DE-1	52 DE-1	84 DE-1	84 DE-1	171 DE-1	171 DE-1				
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code Plot	15	16	17	18	19	20		
12 Resolve (25 SG)	0.3 oz ai/a	B 106	99.0	0.0	95.0	95.0	19.300	274.60		
Mesotrione (50 WG)	1.25 oz ai/a	B 306	99.0	0.0	93.0	98.0	18.610	283.60		
Isoxadifen (50 WG)	0.15 oz ai/a	B 706	99.0	0.0	88.0	88.0	18.170	270.10		
ROUNDUP POWERMAX	22 oz ai/a	B 903	99.0	0.0	90.0	80.0	19.220	229.90		
AMS - Liquid	8.5 lb ai/100 gal	B								
MUSTANG MAX	0.256 oz ai/a	B								
		Mean =	99.0	0.0	91.5	90.3	18.825	264.55		
13 CORVUS	1.84 oz ai/a	B 203	99.0	0.0	92.0	84.0	18.920	262.00		
Atrazine	1 lb ai/a	B 506	99.0	8.0	92.0	84.0	19.180	229.70		
MUSTANG MAX	2.56 oz/a	B 603	99.0	0.0	96.0	86.0	18.850	229.70		
		906	99.0	6.0	95.0	80.0	17.950	186.90		
		Mean =	99.0	3.5	93.8	83.5	18.725	227.08		
14 LUMAX EZ	2.48 lb ai/a	B 206	99.0	0.0	89.0	99.0	19.880	301.80		
MUSTANG MAX	2.56 oz/a	B 406	99.0	0.0	70.0	99.0	19.370	260.20		
		803	99.0	0.0	90.0	89.0	18.110	260.40		
		806	99.0	4.0	84.0	95.0	17.310	258.40		
		Mean =	99.0	1.0	83.3	95.5	18.668	270.20		
15 ROUNDUP POWERMAX	22 oz ai/a	B 303	99.0	0.0	93.0	95.0	20.390	270.60		
AMS - Liquid	8.5 lb ai/100 gal	B 503	99.0	0.0	88.0	85.0	18.960	263.30		
MUSTANG MAX	0.256 oz ai/a	B 703	99.0	0.0	90.0	85.0	19.570	250.40		
		1003	99.0	0.0	87.0	70.0	17.660	213.70		
		Mean =	99.0	0.0	89.5	83.8	19.145	249.50		

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2014/CORN/ANTHEM/ANTHEM ATZ/PRE-POST /EAST

Trial ID: 14S-THP-CTC-04 Protocol ID: 14S-THP-CTC-04
 Location: Throckmorton Study Director:
 Project ID: PYRX.COR.14.JPR.02 Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC - Joe Reed

Pest Type

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

Pest Code

CHEAL, Chenopodium album, = US

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

PHYBLE = phytotoxicity - bleaching

CONTRO = control / burndown or knockdown

PHYSTU = phytotoxicity - stunting

PHYNEC = phytotoxicity - necrosis /burn

PHYLMA = phytotoxicity - leaf malformation

GOOSEN = goosenecking

MOICON = moisture content

YIELD = yield

Rating Unit

% = percent

bu/ac = bushels per acre

PLOT = total plot

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

23 DP-1 = 1 ZEAMD May-5-2014

28 DP-1 = 1 ZEAMD May-5-2014

35 DP-1 = 1 ZEAMD May-5-2014

42 DP-1 = 1 ZEAMD May-5-2014

59 DP-1 = 1 ZEAMD May-5-2014

91 DP-1 = 1 ZEAMD May-5-2014

178 DP-1 = 1 ZEAMD May-5-2014

Purdue University

2014/CORN/ANTHEM/ANTHEM ATZ/PRE-POST /EAST

Trial ID: 14S-THP-CTC-04 Protocol ID: 14S-THP-CTC-04
 Location: Throckmorton Study Director:
 Project ID: PYRX.COR.14.JPR.02 Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC - Joe Reed

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	ZEAMX				ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR				BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays				Zea mays	Zea mays	Zea mays
Crop Name	Corn				Corn	Corn	Corn
Rating Date	May-28-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014
Rating Type	PHYBLE	CONTRO	CONTRO	CONTRO	PHYSTU	PHYBLE	PHYNEC
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	V2	V4	V4	V4	V6	V6	V6
Pest Stage Majority		1-2"	1-2"	2-4"			
Pest Density, Unit		6 FT2	2 FT2	1 YD2			
Days After First/Last Applic.	22 22	27 27	27 27	27 27	34 6	34 6	34 6
Plant-Eval Interval	23 DP-1	28 DP-1	28 DP-1	28 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	16 DE-1	21 DE-1	21 DE-1	21 DE-1	28 DE-1	28 DE-1	28 DE-1
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code	1	2	3	4	5
1 Untreated Check			0.0 a	0.0 d	0.0 b	0.0 c	0.0 b
2 ANTHEM	2.15 oz ai/a	A	0.0 a	87.3 abc	93.5 a	4.6 c	0.0 b
CADET	0.102 oz ai/a	B					0.0 d
ROUNDUP POWERMAX	22 oz ai/a	B					
AMS - Liquid	8.5 lb ai/100 gal	B					
MUSTANG MAX	0.256 oz ai/a	B					5.0 b-e
3 ANTHEM ATZ	1.13 lb ai/a	A	2.5 a	98.0 a	98.0 a	80.0 a	0.0 b
CADET	0.102 oz ai/a	B					0.0 d
ROUNDUP POWERMAX	22 oz ai/a	B					
AMS - Liquid	8.5 lb ai/100 gal	B					
MUSTANG MAX	0.256 oz ai/a	B					6.0 a-d
4 ANTHEM	2.15 oz ai/a	A	0.0 a	94.5 ab	94.8 a	57.5 abc	4.3 b
STANZA	2.36 oz ai/a	B					0.0 d
CADET	0.102 oz ai/a	B					
ROUNDUP POWERMAX	22 oz ai/a	B					
AMS - Liquid	8.5 lb ai/100 gal	B					
MUSTANG MAX	0.256 oz ai/a	B					4.0 b-e
5 ANTHEM ATZ	1.13 lb ai/a	A	2.3 a	98.5 a	98.5 a	71.3 ab	2.8 b
SOLSTICE	1.5 oz ai/a	B					12.5 a
CADET	0.102 oz ai/a	B					
ROUNDUP POWERMAX	22 oz ai/a	B					
AMS - Liquid	8.5 lb ai/100 gal	B					
MUSTANG MAX	0.256 oz ai/a	B					10.0 a
6 ANTHEM	2.15 oz ai/a	B	0.0 a	7.5 d	0.0 b	22.5 abc	7.0 b
STANZA	2.36 oz ai/a	B					1.5 cd
ROUNDUP POWERMAX	22 oz ai/a	B					
AMS - Liquid	8.5 lb ai/100 gal	B					
MUSTANG MAX	0.256 oz ai/a	B					3.3 cde

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	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	ZEAMX				ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR				BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays				Zea mays	Zea mays	Zea mays		
Crop Name	Corn				Corn	Corn	Corn		
Rating Date	May-28-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014		
Rating Type	PHYBLE	CONTRO	CONTRO	CONTRO	PHYSTU	PHYBLE	PHYNEC		
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	V2	V4	V4	V4	V6	V6	V6		
Pest Stage Majority		1-2"	1-2"	2-4"					
Pest Density, Unit		6 FT2	2 FT2	1 YD2					
Days After First/Last Applic.	22 22	27 27	27 27	27 27	34 6	34 6	34 6		
Plant-Eval Interval	23 DP-1	28 DP-1	28 DP-1	28 DP-1	35 DP-1	35 DP-1	35 DP-1		
Days After Emergence	16 DE-1	21 DE-1	21 DE-1	21 DE-1	28 DE-1	28 DE-1	28 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	1	2	3	4	5	6	7
7 ANTHEM ATZ	1.13 lb ai/a	B	0.0 a	17.5 d	23.8 b	17.5 abc	3.5 b	0.8 d	3.5 cde
STANZA	2.36 oz ai/a	B							
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
8 ANTHEM ATZ	1.13 lb ai/a	B	0.5 a	77.5 abc	0.1 b	55.0 abc	2.5 b	5.8 bc	6.3 abc
SOLSTICE	1.5 oz ai/a	B							
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
9 SOLSTICE	1.5 oz ai/a	B	0.0 a	0.0 d	47.5 b	17.5 abc	0.8 b	13.0 a	8.5 ab
Atrazine	0.5 lb ai/a	B							
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
10 SOLSTICE	1.5 oz ai/a	B	0.8 a	0.0 d	0.0 b	15.0 bc	1.3 b	6.8 b	5.5 bcd
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
11 ARMEZON	0.263 oz ae/a	B	2.0 a	37.5 cd	37.5 b	20.0 abc	0.0 b	1.3 cd	2.5 cde
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
12 Resolve (25 SG)	0.3 oz ai/a	B	0.0 a	79.5 abc	8.6 b	25.0 abc	7.5 b	0.0 d	0.8 de
Mesotrione (50 WG)	1.25 oz ai/a	B							
Isoxadifen (50 WG)	0.15 oz ai/a	B							
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
13 CORVUS	1.84 oz ai/a	B	1.5 a	45.0 bcd	35.0 b	33.8 abc	18.8 a	5.5 bcd	1.3 cde
Atrazine	1 lb ai/a	B							
MUSTANG MAX	2.56 oz/a	B							
14 LUMAX EZ	2.48 lb ai/a	B	0.5 a	73.6 abc	20.0 b	0.0 c	1.8 b	0.0 d	1.5 cde
MUSTANG MAX	2.56 oz/a	B							

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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	ZEAMX				ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR				BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays				Zea mays	Zea mays	Zea mays
Crop Name	Corn				Corn	Corn	Corn
Rating Date	May-28-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014
Rating Type	PHYBLE	CONTRO	CONTRO	CONTRO	PHYSTU	PHYBLE	PHYNEC
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	V2	V4	V4	V4	V6	V6	V6
Pest Stage Majority		1-2"	1-2"	2-4"			
Pest Density, Unit		6 FT2	2 FT2	1 YD2			
Days After First/Last Applic.	22 22	27 27	27 27	27 27	34 6	34 6	34 6
Plant-Eval Interval	23 DP-1	28 DP-1	28 DP-1	28 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	16 DE-1	21 DE-1	21 DE-1	21 DE-1	28 DE-1	28 DE-1	28 DE-1
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code	1	2	3	4	5
15 ROUNDUP POWERMAX	22 oz ai/a	B	1.0 a	25.0 d	16.7 b	41.3 abc	0.0 b
AMS - Liquid	8.5 lb ai/100 gal	B					1.3 cd
MUSTANG MAX	0.256 oz ai/a	B					1.3 cde
LSD (P=.05)	1.80		33.69	30.90	37.18	4.72	3.36
Standard Deviation	1.26		23.57	21.62	26.02	3.30	2.35
CV	171.85		47.7	56.51	84.68	99.13	73.03
Bartlett's X2	5.767		44.301	46.492	9.991	19.794	4.833
P(Bartlett's X2)	0.567		0.001*	0.001*	0.531	0.019*	0.775
Replicate F	6.885		0.398	0.758	2.271	1.860	0.422
Replicate Prob(F)	0.0007		0.7550	0.5250	0.0946	0.1510	0.7383
Treatment F	2.079		10.989	13.000	3.748	8.883	14.749
Treatment Prob(F)	0.0341		0.0001	0.0001	0.0005	0.0001	0.0001

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Pest Type						W Weed AMBTR	W Weed SETFA		
Pest Code						Ambrosia trifi>	Setaria faberi		
Pest Scientific Name						Giant ragweed	Giant foxtail		
Pest Name									
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				
Rating Date	Jun-9-2014	Jun-9-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jul-3-2014	Jul-3-2014		
Rating Type	PHYLMA	GOOSEN	PHYNEC	PHYSTU	PHYBLE	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	1		
Crop Stage Majority	V6	V6	V7	V7	V7	V8	V8		
Pest Stage Majority						2-72"	1-15"		
Pest Density, Unit						2 FT2	6 FT2		
Days After First/Last Applic.	34 6	34 6	41 13	41 13	41 13	58 30	58 30		
Plant-Eval Interval	35 DP-1	35 DP-1	42 DP-1	42 DP-1	42 DP-1	59 DP-1	59 DP-1		
Days After Emergence	28 DE-1	28 DE-1	35 DE-1	35 DE-1	35 DE-1	52 DE-1	52 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	8	9	10	11	12	13	14
1 Untreated Check			0.0 a	0.0 a	0.0 c	0.0 b	0.0 d	0.0 c	0.0 c
2 ANTHEM	2.15 oz ai/a	A	2.0 a	2.0 a	3.3 bc	0.0 b	0.0 d	71.3 ab	86.0 a
CADET	0.102 oz ai/a	B							
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
3 ANTHEM ATZ	1.13 lb ai/a	A	2.0 a	3.0 a	3.8 bc	0.8 b	0.0 d	70.0 ab	99.0 a
CADET	0.102 oz ai/a	B							
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
4 ANTHEM	2.15 oz ai/a	A	1.8 a	0.0 a	2.8 bc	0.8 b	0.0 d	92.5 ab	98.0 a
STANZA	2.36 oz ai/a	B							
CADET	0.102 oz ai/a	B							
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
5 ANTHEM ATZ	1.13 lb ai/a	A	1.8 a	1.3 a	7.3 ab	2.5 b	5.5 abc	93.5 ab	99.0 a
SOLSTICE	1.5 oz ai/a	B							
CADET	0.102 oz ai/a	B							
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
6 ANTHEM	2.15 oz ai/a	B	1.5 a	0.0 a	2.8 bc	0.0 b	0.0 d	85.8 ab	91.0 a
STANZA	2.36 oz ai/a	B							
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							

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Pest Type						W Weed AMBTR Ambrosia trifi> Giant ragweed	W Weed SETFA Setaria faberi Giant foxtail		
Pest Code									
Pest Scientific Name									
Pest Name									
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				
Rating Date	Jun-9-2014	Jun-9-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jul-3-2014	Jul-3-2014		
Rating Type	PHYLMA	GOOSEN	PHYNEC	PHYSTU	PHYBLE	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	1		
Crop Stage Majority	V6	V6	V7	V7	V7	V8	V8		
Pest Stage Majority						2-72"	1-15"		
Pest Density, Unit						2 FT2	6 FT2		
Days After First/Last Applic.	34 6	34 6	41 13	41 13	41 13	58 30	58 30		
Plant-Eval Interval	35 DP-1	35 DP-1	42 DP-1	42 DP-1	42 DP-1	59 DP-1	59 DP-1		
Days After Emergence	28 DE-1	28 DE-1	35 DE-1	35 DE-1	35 DE-1	52 DE-1	52 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	8	9	10	11	12	13	14
7 ANTHEM ATZ	1.13 lb ai/a	B	0.8 a	0.8 a	2.3 c	2.8 b	0.8 d	93.8 ab	89.5 a
STANZA	2.36 oz ai/a	B							
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
8 ANTHEM ATZ	1.13 lb ai/a	B	2.5 a	2.5 a	5.0 abc	2.8 b	3.3 cd	96.8 a	94.8 a
SOLSTICE	1.5 oz ai/a	B							
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
9 SOLSTICE	1.5 oz ai/a	B	3.0 a	3.3 a	8.5 a	1.3 b	8.0 a	58.8 b	68.8 a
Atrazine	0.5 lb ai/a	B							
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
10 SOLSTICE	1.5 oz ai/a	B	1.3 a	1.3 a	5.0 abc	1.3 b	4.5 bc	80.0 ab	32.5 b
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
11 ARMEZON	0.263 oz ae/a	B	1.3 a	0.0 a	1.3 c	0.8 b	0.0 d	81.3 ab	71.3 a
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
12 Resolve (25 SG)	0.3 oz ai/a	B	3.3 a	0.0 a	0.8 c	2.5 b	0.8 d	73.5 ab	71.0 a
Mesotrione (50 WG)	1.25 oz ai/a	B							
Isoxadifen (50 WG)	0.15 oz ai/a	B							
ROUNDUP POWERMAX	22 oz ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
13 CORVUS	1.84 oz ai/a	B	0.0 a	0.0 a	1.3 c	10.0 a	6.8 ab	63.5 ab	92.0 a
Atrazine	1 lb ai/a	B							
MUSTANG MAX	2.56 oz/a	B							
14 LUMAX EZ	2.48 lb ai/a	B	2.0 a	0.8 a	0.8 c	0.8 b	0.0 d	97.5 a	56.3 ab
MUSTANG MAX	2.56 oz/a	B							

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Pest Type						W Weed	W Weed		
Pest Code						AMBTR	SETFA		
Pest Scientific Name						Ambrosia trifida	Setaria faberii		
Pest Name						Giant ragweed	Giant foxtail		
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				
Rating Date	Jun-9-2014	Jun-9-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jul-3-2014	Jul-3-2014		
Rating Type	PHYLMA	GOOSEN	PHYNEC	PHYSTU	PHYBLE	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	1		
Crop Stage Majority	V6	V6	V7	V7	V7	V8	V8		
Pest Stage Majority						2-72"	1-15"		
Pest Density, Unit						2 FT2	6 FT2		
Days After First/Last Applic.	34 6	34 6	41 13	41 13	41 13	58 30	58 30		
Plant-Eval Interval	35 DP-1	35 DP-1	42 DP-1	42 DP-1	42 DP-1	59 DP-1	59 DP-1		
Days After Emergence	28 DE-1	28 DE-1	35 DE-1	35 DE-1	35 DE-1	52 DE-1	52 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	8	9	10	11	12	13	14
15 ROUNDUP POWERMAX	22 oz ai/a	B	0.0 a	1.3 a	1.3 c	1.3 b	0.8 d	76.3 ab	63.8 a
AMS - Liquid	8.5 lb ai/100 gal	B							
MUSTANG MAX	0.256 oz ai/a	B							
LSD (P=.05)	3.43	3.20	2.97	3.69	2.45	20.66	24.60		
Standard Deviation	2.40	2.24	2.08	2.58	1.72	14.46	17.22		
CV	156.58	209.91	68.2	142.07	85.05	19.12	23.21		
Bartlett's X2	5.881	5.923	3.767	16.622	12.273	36.601	33.545		
P(Bartlett's X2)	0.881	0.656	0.993	0.12	0.092	0.001*	0.001*		
Replicate F	3.955	0.461	0.117	1.851	0.474	1.408	3.170		
Replicate Prob(F)	0.0143	0.7110	0.9497	0.1527	0.7021	0.2539	0.0340		
Treatment F	0.724	1.058	5.672	3.648	10.810	11.237	10.523		
Treatment Prob(F)	0.7386	0.4204	0.0001	0.0006	0.0001	0.0001	0.0001		

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Trt No.	Treatment Name	Rate	Unit	Appl Code	15	16	17	18	19	20
1	Untreated Check				0.0 b	0.0 a	0.0 e	0.0 b	18.363 a	69.13 c
2	ANTHEM	2.15 oz ai/a		A	99.0 a	0.0 a	95.5 a	82.8 a	19.135 a	246.00 ab
	CADET	0.102 oz ai/a		B						
	ROUNDUP POWERMAX	22 oz ai/a		B						
	AMS - Liquid	8.5 lb ai/100 gal		B						
	MUSTANG MAX	0.256 oz ai/a		B						
3	ANTHEM ATZ	1.13 lb ai/a		A	99.0 a	0.0 a	96.0 a	82.8 a	18.575 a	244.80 ab
	CADET	0.102 oz ai/a		B						
	ROUNDUP POWERMAX	22 oz ai/a		B						
	AMS - Liquid	8.5 lb ai/100 gal		B						
	MUSTANG MAX	0.256 oz ai/a		B						
4	ANTHEM	2.15 oz ai/a		A	99.0 a	0.0 a	97.0 a	94.8 a	19.093 a	274.05 ab
	STANZA	2.36 oz ai/a		B						
	CADET	0.102 oz ai/a		B						
	ROUNDUP POWERMAX	22 oz ai/a		B						
	AMS - Liquid	8.5 lb ai/100 gal		B						
	MUSTANG MAX	0.256 oz ai/a		B						
5	ANTHEM ATZ	1.13 lb ai/a		A	99.0 a	1.0 a	98.3 a	96.3 a	18.158 a	254.63 ab
	SOLSTICE	1.5 oz ai/a		B						
	CADET	0.102 oz ai/a		B						
	ROUNDUP POWERMAX	22 oz ai/a		B						
	AMS - Liquid	8.5 lb ai/100 gal		B						
	MUSTANG MAX	0.256 oz ai/a		B						
6	ANTHEM	2.15 oz ai/a		B	99.0 a	0.8 a	95.3 a	95.3 a	18.678 a	268.78 ab
	STANZA	2.36 oz ai/a		B						
	ROUNDUP POWERMAX	22 oz ai/a		B						
	AMS - Liquid	8.5 lb ai/100 gal		B						
	MUSTANG MAX	0.256 oz ai/a		B						

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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		ZEAMX		ZEAMX	ZEAMX
BBCH Scale		BCOR		BCOR	BCOR
Crop Scientific Name		Zea mays		Zea mays	Zea mays
Crop Name		Corn		Corn	Corn
Rating Date	Jul-3-2014	Jul-3-2014	Aug-4-2014	Aug-4-2014	Oct-30-2014
Rating Type	CONTRO	PHYSTU	CONTRO	CONTRO	MOICON
Rating Unit	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	V8	V8			
Pest Stage Majority	1-35"		37"	120"	
Pest Density, Unit	2 YD2		6 FT2	2 FT2	
Days After First/Last Applic.	58 30	58 30	90 62	90 62	177 149
Plant-Eval Interval	59 DP-1	59 DP-1	91 DP-1	91 DP-1	178 DP-1
Days After Emergence	52 DE-1	52 DE-1	84 DE-1	84 DE-1	171 DE-1
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	15	16	17
7 ANTHEM ATZ	1.13 lb ai/a	B	99.0 a	1.8 a	94.8 a
STANZA	2.36 oz ai/a	B			
ROUNDUP POWERMAX	22 oz ai/a	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
MUSTANG MAX	0.256 oz ai/a	B			
8 ANTHEM ATZ	1.13 lb ai/a	B	99.0 a	0.0 a	97.5 a
SOLSTICE	1.5 oz ai/a	B			
ROUNDUP POWERMAX	22 oz ai/a	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
MUSTANG MAX	0.256 oz ai/a	B			
9 SOLSTICE	1.5 oz ai/a	B	99.0 a	0.0 a	86.0 bcd
Atrazine	0.5 lb ai/a	B			
ROUNDUP POWERMAX	22 oz ai/a	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
MUSTANG MAX	0.256 oz ai/a	B			
10 SOLSTICE	1.5 oz ai/a	B	99.0 a	0.0 a	82.5 d
ROUNDUP POWERMAX	22 oz ai/a	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
MUSTANG MAX	0.256 oz ai/a	B			
11 ARMEZON	0.263 oz ae/a	B	99.0 a	0.0 a	90.3 abc
ROUNDUP POWERMAX	22 oz ai/a	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
MUSTANG MAX	0.256 oz ai/a	B			
12 Resolve (25 SG)	0.3 oz ai/a	B	99.0 a	0.0 a	91.5 ab
Mesotrione (50 WG)	1.25 oz ai/a	B			
Isoxadifen (50 WG)	0.15 oz ai/a	B			
ROUNDUP POWERMAX	22 oz ai/a	B			
AMS - Liquid	8.5 lb ai/100 gal	B			
MUSTANG MAX	0.256 oz ai/a	B			
13 CORVUS	1.84 oz ai/a	B	99.0 a	3.5 a	93.8 a
Atrazine	1 lb ai/a	B			
MUSTANG MAX	2.56 oz/a	B			
14 LUMAX EZ	2.48 lb ai/a	B	99.0 a	1.0 a	83.3 cd
MUSTANG MAX	2.56 oz/a	B			
					95.5 a
					18.668 a
					270.20 ab

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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		ZEAMX			ZEAMX
BBCH Scale		BCOR			BCOR
Crop Scientific Name		Zea mays			Zea mays
Crop Name		Corn			Corn
Rating Date	Jul-3-2014	Jul-3-2014	Aug-4-2014	Aug-4-2014	Oct-30-2014
Rating Type	CONTRO	PHYSTU	CONTRO	CONTRO	MOICON
Rating Unit	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	V8	V8			
Pest Stage Majority	1-35"		37"	120"	
Pest Density, Unit	2 YD2		6 FT2	2 FT2	
Days After First/Last Applic.	58 30	58 30	90 62	90 62	177 149
Plant-Eval Interval	59 DP-1	59 DP-1	91 DP-1	91 DP-1	178 DP-1
Days After Emergence	52 DE-1	52 DE-1	84 DE-1	84 DE-1	171 DE-1
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	15	16	17
15 ROUNDUP POWERMAX	22 oz ai/a	B	99.0 a	0.0 a	89.5 a-d
AMS - Liquid	8.5 lb ai/100 gal	B			
MUSTANG MAX	0.256 oz ai/a	B			
LSD (P=.05)	0.00	2.17	5.32	9.33	0.9598
Standard Deviation	0.00	1.52	3.72	6.53	0.6716
CV	0.0	284.41	4.33	7.78	3.58
Bartlett's X2	0.0	4.091	35.102	42.693	11.675
P(Bartlett's X2)	.	0.394	0.001*	0.001*	0.632
Replicate F	0.000	3.168	0.939	0.548	10.701
Replicate Prob(F)	1.0000	0.0341	0.4304	0.6522	0.0001
Treatment F	0.000	1.690	170.843	53.555	0.664
Treatment Prob(F)	1.0000	0.0949	0.0001	0.0001	0.7948
					249.50 ab
					29.782
					20.840
					8.44
					11.542
					0.643
					2.122
					0.1118
					24.135
					0.0001

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2014/CORN/ANTHEM/ANTHEM ATZ/PRE-POST /EAST

Trial ID: 14S-THP-CTC-04 Protocol ID: 14S-THP-CTC-04
 Location: Throckmorton Study Director:
 Project ID: PYRX.COR.14.JPR.02 Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC - Joe Reed

Pest Type

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

Pest Code

CHEAL, Chenopodium album, = US

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

PHYBLE = phytotoxicity - bleaching

CONTRO = control / burndown or knockdown

PHYSTU = phytotoxicity - stunting

PHYNEC = phytotoxicity - necrosis /burn

PHYLMA = phytotoxicity - leaf malformation

GOOSEN = goosenecking

MOICON = moisture content

YIELD = yield

Rating Unit

% = percent

bu/ac = bushels per acre

PLOT = total plot

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

23 DP-1 = 1 ZEAMD May-5-2014

28 DP-1 = 1 ZEAMD May-5-2014

35 DP-1 = 1 ZEAMD May-5-2014

42 DP-1 = 1 ZEAMD May-5-2014

59 DP-1 = 1 ZEAMD May-5-2014

91 DP-1 = 1 ZEAMD May-5-2014

178 DP-1 = 1 ZEAMD May-5-2014