

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

General Trial Information

Study Director: Joe Ikley **Title:** Research Associate
Investigator: Dr. Bill Johnson **Title:** Professor

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Joe Ikley **Title:** Research Associate
Organization: Purdue University
Address: 915 West State Street **Phone No.:** 765-494-0891
City+State/Prov: West Lafayette **Mobile No.:** 410-596-9091
Postal Code: 47907 **E-mail:** jikley@purdue.edu

Investigator: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
Address: 915 West State Street **Phone No.:** 765-494-4656
City+State/Prov: West Lafayette **Mobile No.:** 765-404-9801
Postal Code: 47907 **E-mail:** wgj@purdue.edu

Cooperator/Landowner
Cooperator: Jay Young **Role:** Superintendent
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
Country: USA United States **E-mail:** jayyoung@purdue.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 62-08
Planting Rate, Unit: 32000 S/A **Planting Date:** Apr-26-2016
Depth, Unit: 1.75 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** FPP Finger Pickup Planter
Soil Temperature, Unit: 74 F **Emergence Date:** May-10-2016
Soil Moisture: SLIDRY slightly dry **Harvested Width, Unit:** 5 FT
Harvested Length, Unit: 25 FT
% Standard Moisture: 15.5

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

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 300 FT2 **Treatments:** 16 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)

Field Prep./Maintenance:
 171 lbs of N applied as UAN on 4/19/16

Soil Description

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

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Application Description

	A	B	C	D
Application Date:	Apr-26-2016	May-23-2016	Jun-7-2016	May-30-2016
Appl. Start Time:	1:00 PM	2:00 PM	8:15 AM	1:30 PM
Appl. Stop Time:	1:30 PM	2:30 PM	8:30 AM	2:15 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	E POST	L POST	M POST
Application Placement:	BROADC	BROADC	BROADC	BROADC
Applied By:	MZ	JI	TC	JI
Air Temperature, Unit:	76 F	75 F	60 F	83 F
% Relative Humidity:	50	25	75	35
Wind Velocity, Unit:	5 MPH	3 MPH	5 MPH	3 MPH
Wind Direction:	NNW	ESE	NNW	W
Dew Presence (Y/N):	N no	N no	Y yes	N no
Soil Temperature, Unit:	74 F	75 F	64 F	81 F
Soil Moisture:	SLIDRY	DRY	WET	DRY
% Cloud Cover:	100	0	0	50

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH	BBCH	BBCH
Stage Majority, Percent:		32	36	34
Stage Minimum, Percent:		31	35	33
Stage Maximum, Percent:		32	37	34
Height, Unit:		3.5 IN	11 IN	7 IN
Height Minimum, Maximum:		2 5	6 16	6 8

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:		32G	34G	33G
Stage Minimum, Percent:		31G	31G	32G
Stage Maximum, Percent:		34G	36G	35G
Height, Unit:		4 IN	7 IN	4 IN
Height Minimum, Maximum:		3 5	1 13	2 6
Density, Unit:		120 YD2	45 YD2	60 YD2
Pest 2 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:		31G		
Stage Minimum, Percent:		31G		
Stage Maximum, Percent:		32G		
Height, Unit:		0.75 IN		
Height Minimum, Maximum:		0.5 1		
Density, Unit:		30 YD2		
Pest 3 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:		12	14	
Stage Minimum, Percent:		11	12	
Stage Maximum, Percent:		12	15	
Height, Unit:		0.75 IN	3 IN	
Height Minimum, Maximum:		0.5 1	2 4	
Density, Unit:		75 YD2	30 YD2	

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Application Equipment

	A	B	C	D
Appl. Equipment:	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK
Equipment Type:	BACSPR	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	18 PSI	18 PSI	18 PSI	18 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	XR 11002	XR 11002	XR 11002	XR 11002
Nozzle Spacing, Unit:	15 IN	15 IN	15 IN	15 IN
Nozzles/Row:	8	8	8	8
Boom Length, Unit:	10 FT	10 FT	10 FT	10 FT
Boom Height, Unit:	17 IN	17 IN	17 IN	17 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH
Carrier:	MEIGS	MEIGS	MEIGS	MEIGS
Spray Volume, Unit:	15 gal/ac	15 gal/ac	15 gal/ac	15 gal/ac
Mix Size, Unit:	1.8 liters	1.8 liters	1.8 liters	1.8 liters
Propellant:	CO2	CO2	CO2	CO2

Trial Comments

Reps: 4 Plots: 10 by 30 feet
 Spray vol: 15 GAL/AC Mix Size: 1.8 liters (1.5642 liters calculated mix size)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Code	Amt Product to Measure	Rep			
									1	2	3	4
1	Untreated Check								101	402	608	803
2	ANTHEM MAXX	4.3 LB/GAL		SE	4 fl oz/a	A		3.75 ml/mx	102	304	505	708
	AATREX	4 LB/GAL		L	1.5 qt/a	A		45.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a	C		30.0 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL		L	2.5 % v/v	C		45.0 ml/mx				
3	ANTHEM MAXX	4.3 LB/GAL		SE	4 fl oz/a	A		3.75 ml/mx	103	308	504	808
	AATREX	4 LB/GAL		L	1.5 qt/a	A		45.0 ml/mx				
	BALANCE FLEXX	2 LB/GAL		L	2 fl oz/a	A		1.875 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a	C		30.0 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL		L	2.5 % v/v	C		45.0 ml/mx				
4	ANTHEM MAXX	4.3 LB/GAL		SE	4 fl oz/a	A		3.75 ml/mx	104	307	508	703
	HORNET	78.5 %		WG	3 oz/a	A		2.696 g/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a	C		30.0 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL		L	2.5 % v/v	C		45.0 ml/mx				
5	ACURON	3.44 LB/GAL		ZC	2.5 qt/a	A		75.0 ml/mx	105	406	503	702
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a	C		30.0 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL		L	2.5 % v/v	C		45.0 ml/mx				
6	CORVUS	2.63 LB/GAL		SC	5.6 fl oz/a	A		5.25 ml/mx	106	404	604	806
	AATREX	4 LB/GAL		L	1.5 qt/a	A		45.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a	C		30.0 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL		L	2.5 % v/v	C		45.0 ml/mx				
7	VERDICT	5.57 LB/GAL		EC	16 fl oz/a	A		15.0 ml/mx	107	302	502	805
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a	C		30.0 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL		L	2.5 % v/v	C		45.0 ml/mx				
8	RESICORE	3.29 LB/GAL		SE	2.75 qt/a	A		82.5 ml/mx	108	401	606	801
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a	C		30.0 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL		L	2.5 % v/v	C		45.0 ml/mx				

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Reps: 4 Plots: 10 by 30 feet
 Spray vol: 15 GAL/AC Mix Size: 1.8 liters (1.5642 liters calculated mix size)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
9	ANTHEM MAXX	4.3	LB/GAL	SE	4 fl oz/a	A	3.75 ml/mx	201	408	501	707
	AATREX	4	LB/GAL	L	1.5 qt/a	A	45.0 ml/mx				
	SOLSTICE	4	LB/GAL	SC	3 fl oz/a	D	2.812 ml/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	D	30.0 ml/mx				
	PRIME OIL - COC	98.47	%	L	0.5 % v/v	D	8.999 ml/mx				
N-PAK - AMS	3.4	LBA/GAL	L	2.5 % v/v	D	45.0 ml/mx					
10	DEGREE XTRA	4.04	LB/GAL	L	3 qt/a	A	90.0 ml/mx	202	407	607	706
	IMPACT	2.8	LB/GAL	L	0.75 fl oz/a	D	0.7031 ml/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	D	30.0 ml/mx				
	MISO ULTRA	100	%	L	1 % v/v	D	18.0 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	L	2.5 % v/v	D	45.0 ml/mx				
11	ANTHEM MAXX	4.3	LB/GAL	SE	4 fl oz/a	A	3.75 ml/mx	203	305	601	802
	SOLSTICE	4	LB/GAL	SC	2.5 fl oz/a	D	2.344 ml/mx				
	AATREX	4	LB/GAL	L	1.5 qt/a	D	45.0 ml/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	D	30.0 ml/mx				
	PRIME OIL - COC	98.47	%	L	0.5 % v/v	D	8.999 ml/mx				
N-PAK - AMS	3.4	LBA/GAL	L	2.5 % v/v	D	45.0 ml/mx					
12	ANTHEM MAXX	4.3	LB/GAL	SE	4 fl oz/a	A	3.75 ml/mx	204	405	605	804
	AATREX	4	LB/GAL	L	1.5 qt/a	A	45.0 ml/mx				
	SOLSTICE	4	LB/GAL	SC	2.5 fl oz/a	D	2.344 ml/mx				
	AATREX	4	LB/GAL	L	1 pt/a	D	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	D	30.0 ml/mx				
PRIME OIL - COC	98.47	%	L	0.5 % v/v	D	8.999 ml/mx					
N-PAK - AMS	3.4	LBA/GAL	L	2.5 % v/v	D	45.0 ml/mx					
13	ANTHEM MAXX	4.3	LB/GAL	SE	2 fl oz/a	B	1.875 ml/mx	205	303	507	705
	SOLSTICE	4	LB/GAL	SC	2.5 fl oz/a	B	2.344 ml/mx				
	AATREX	4	LB/GAL	L	1.5 qt/a	B	45.0 ml/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	B	30.0 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	L	2.5 % v/v	B	45.0 ml/mx				
14	ANTHEM MAXX	4.3	LB/GAL	SE	4 fl oz/a	B	3.75 ml/mx	206	301	603	701
	AATREX	4	LB/GAL	L	1.5 qt/a	B	45.0 ml/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	B	30.0 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	L	2.5 % v/v	B	45.0 ml/mx				
15	HALEX GT	4.389	LBAE/GAL	L	3.6 pt/a	B	54.0 ml/mx	207	403	602	704
	AATREX	4	LB/GAL	L	1.5 qt/a	B	45.0 ml/mx				
	ACTIVATOR 90 - NIS	90	%	L	0.25 % v/v	B	4.5 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	L	2.5 % v/v	B	45.0 ml/mx				
16	Untreated Check							208	306	506	807

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
35.156	ml	ANTHEM MAXX	4.3	LB/GAL	SE	
524.998	ml	AATREX	4	LB/GAL	L	
487.500	ml	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	
787.414	ml	N-PAK - AMS	3.4	LBA/GAL	L	
2.344	ml	BALANCE FLEXX	2	LB/GAL	L	
3.370	g	HORNET	78.5	%	WG	
93.750	ml	ACURON	3.44	LB/GAL	ZC	
6.562	ml	CORVUS	2.63	LB/GAL	SC	

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
18.750	ml	VERDICT	5.57	LB/GAL	EC	
103.125	ml	RESICORE	3.29	LB/GAL	SE	
12.305	ml	SOLSTICE	4	LB/GAL	SC	
33.746	ml	PRIME OIL - COC	98.47	%	L	
112.500	ml	DEGREE XTRA	4.04	LB/GAL	L	
0.879	ml	IMPACT	2.8	LB/GAL	L	
22.498	ml	MSO ULTRA	100	%	L	
67.500	ml	HALEX GT	4.389	LBAE/GAL	L	
5.624	ml	ACTIVATOR 90 - NIS	90	%	L	

- * 'Per area' calculations based on spray volume= 15 GAL/AC, mix size= 1.8 liters (mix size basis).
- * Product amount calculations increased 25 % for overage adjustment.
- * 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 1.8 liters.

Pest Type			W Weed			W Weed			W Weed		
Pest Code			AMBTR			AMBTR			SETFA		
Pest Name			Giant ragweed			Giant ragweed			Giant foxtail		
Crop Code	ZEAMX		ZEAMX		ZEAMX		ZEAMX		ZEAMX		
Crop Name	Corn		Corn		Corn		Corn		Corn		
Part Rated	PLOT C		PLOT P		PLOT C		PLOT P		PLOT C		
Rating Date	May-12-2016		May-12-2016		May-23-2016		May-23-2016		May-30-2016		
Rating Type	PHYGEN		CONTRO		PHYGEN		CONTRO		PHYGEN		
Rating Unit	%		%		%		%		%		
Number of Subsamples	1		1		1		1		1		
Days After First/Last Applic.	16 16		16 16		27 27		27 27		34 7		
Trt-Eval Interval	16 DA-A		16 DA-A		0 DA-B		0 DA-B		7 DA-B		
Days After Emergence	2 DE-1		2 DE-1		13 DE-1		13 DE-1		20 DE-1		
ARM Action Codes	P		P		P		P		P		
Number of Decimals	0		0		0		0		0		
Trt Treatment	Rate	Appl									
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6			
1 Untreated Check		101	0	0	0	0	0	0	0		
		402	0	0	0	0	0	0	0		
		608	0	0	0	0	0	0	0		
		803	0	0	0	0	0	0	0		
		Mean =	0	0	0	0	0	0	0		
2 ANTHEM MAXX	4 fl oz/a A	102	0	80	0	70	100	0	0		
AATREX	1.5 qt/a A	304	0	70	10	80	100	0	0		
ROUNDUP POWERMAX	32 fl oz/a C	505	0	95	0	95	100	0	0		
N-PAK - AMS	2.5 % v/v C	708	0	80	0	60	100	0	0		
		Mean =	0	81	3	76	100	0	0		
3 ANTHEM MAXX	4 fl oz/a A	103	0	95	0	95	100	0	0		
AATREX	1.5 qt/a A	308	0	85	0	90	100	0	0		
BALANCE FLEXX	2 fl oz/a A	504	0	99	0	97	100	0	0		
ROUNDUP POWERMAX	32 fl oz/a C	808	0	70	0	60	100	0	0		
N-PAK - AMS	2.5 % v/v C										
		Mean =	0	87	0	86	100	0	0		
4 ANTHEM MAXX	4 fl oz/a A	104	0	90	0	90	100	0	0		
HORNET	3 oz/a A	307	0	95	0	90	100	0	0		
ROUNDUP POWERMAX	32 fl oz/a C	508	0	95	0	90	100	0	0		
N-PAK - AMS	2.5 % v/v C	703	0	90	0	85	100	0	0		
		Mean =	0	93	0	89	100	0	0		
5 ACURON	2.5 qt/a A	105	0	75	0	90	100	0	0		
ROUNDUP POWERMAX	32 fl oz/a C	406	0	90	0	95	100	0	0		
N-PAK - AMS	2.5 % v/v C	503	0	97	0	100	100	0	0		
		702	0	70	0	90	100	0	0		
		Mean =	0	83	0	94	100	0	0		

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type		W Weed AMBTR		W Weed AMBTR	W Weed SETFA		
Pest Code		Giant ragweed		Giant ragweed	Giant foxtail		
Pest Name							
Crop Code	ZEAMX		ZEAMX			ZEAMX	
Crop Name	Corn		Corn			Corn	
Part Rated	PLOT C	PLOT P	PLOT C	PLOT P	PLOT P	PLOT C	
Rating Date	May-12-2016	May-12-2016	May-23-2016	May-23-2016	May-23-2016	May-30-2016	
Rating Type	PHYGEN	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN	
Rating Unit	%	%	%	%	%	%	
Number of Subsamples	1	1	1	1	1	1	
Days After First/Last Applic.	16 16	16 16	27 27	27 27	27 27	34 7	
Trt-Eval Interval	16 DA-A	16 DA-A	0 DA-B	0 DA-B	0 DA-B	7 DA-B	
Days After Emergence	2 DE-1	2 DE-1	13 DE-1	13 DE-1	13 DE-1	20 DE-1	
ARM Action Codes	P	P	P	P	P	P	
Number of Decimals	0	0	0	0	0	0	
Trt Treatment	Rate Appl						
No. Name	Rate Unit Code Plot	1	2	3	4	5	6
6 CORVUS	5.6 fl oz/a A 106	0	70	0	90	100	0
AATREX	1.5 qt/a A 404	0	80	0	90	100	5
ROUNDUP POWERMAX	32 fl oz/a C 604	0	80	0	90	100	0
N-PAK - AMS	2.5 % v/v C 806	0	65	0	90	100	0
	Mean =	0	74	0	90	100	1
7 VERDICT	16 fl oz/a A 107	0	100	0	100	100	5
ROUNDUP POWERMAX	32 fl oz/a C 302	0	100	0	97	100	0
N-PAK - AMS	2.5 % v/v C 502	0	100	0	97	100	0
	805	0	95	0	95	100	0
	Mean =	0	99	0	97	100	1
8 RESICORE	2.75 qt/a A 108	0	97	0	97	100	5
ROUNDUP POWERMAX	32 fl oz/a C 401	0	97	0	95	100	0
N-PAK - AMS	2.5 % v/v C 606	0	100	0	97	100	0
	801	0	95	10	97	100	0
	Mean =	0	97	3	97	100	1
9 ANTHEM MAXX	4 fl oz/a A 201	0	50	0	60	100	0
AATREX	1.5 qt/a A 408	0	65	0	50	100	0
SOLSTICE	3 fl oz/a D 501	0	90	0	80	100	0
ROUNDUP POWERMAX	32 fl oz/a D 707	0	80	0	60	100	0
PRIME OIL - COC	0.5 % v/v D						
N-PAK - AMS	2.5 % v/v D						
	Mean =	0	71	0	63	100	0
10 DEGREE XTRA	3 qt/a A 202	0	80	0	70	100	0
IMPACT	0.75 fl oz/a D 407	0	70	0	60	100	0
ROUNDUP POWERMAX	32 fl oz/a D 607	0	30	0	20	100	0
MSO ULTRA	1 % v/v D 706	0	85	10	60	100	0
N-PAK - AMS	2.5 % v/v D						
	Mean =	0	66	3	53	100	0
11 ANTHEM MAXX	4 fl oz/a A 203	0	95	0	90	100	0
SOLSTICE	2.5 fl oz/a D 305	0	75	0	70	100	0
AATREX	1.5 qt/a D 601	0	30	0	10	100	0
ROUNDUP POWERMAX	32 fl oz/a D 802	0	60	0	40	100	0
PRIME OIL - COC	0.5 % v/v D						
N-PAK - AMS	2.5 % v/v D						
	Mean =	0	65	0	53	100	0
12 ANTHEM MAXX	4 fl oz/a A 204	0	95	0	95	100	0
AATREX	1.5 qt/a A 405	0	85	0	80	100	0
SOLSTICE	2.5 fl oz/a D 605	0	95	0	85	100	0
AATREX	1 pt/a D 804	0	60	0	50	100	0
ROUNDUP POWERMAX	32 fl oz/a D						
PRIME OIL - COC	0.5 % v/v D						
N-PAK - AMS	2.5 % v/v D						
	Mean =	0	84	0	78	100	0

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type		W Weed		W Weed	W Weed	
Pest Code		AMBTR		AMBTR	SETFA	
Pest Name		Giant ragweed		Giant ragweed	Giant foxtail	
Crop Code	ZEAMX		ZEAMX			ZEAMX
Crop Name	Corn		Corn			Corn
Part Rated	PLOT C	PLOT P	PLOT C	PLOT P	PLOT P	PLOT C
Rating Date	May-12-2016	May-12-2016	May-23-2016	May-23-2016	May-23-2016	May-30-2016
Rating Type	PHYGEN	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	16 16	16 16	27 27	27 27	27 27	34 7
Trt-Eval Interval	16 DA-A	16 DA-A	0 DA-B	0 DA-B	0 DA-B	7 DA-B
Days After Emergence	2 DE-1	2 DE-1	13 DE-1	13 DE-1	13 DE-1	20 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Rate Appl					
No. Name	Rate Unit Code Plot	1	2	3	4	5
13 ANTHEM MAXX	2 fl oz/a B 205	0	0	0	0	0
SOLSTICE	2.5 fl oz/a B 303	0	0	0	0	0
AATREX	1.5 qt/a B 507	0	0	0	0	0
ROUNDUP POWERMAX	32 fl oz/a B 705	0	0	0	0	0
N-PAK - AMS	2.5 % v/v B					
	Mean =	0	0	0	0	0
14 ANTHEM MAXX	4 fl oz/a B 206	0	0	0	0	0
AATREX	1.5 qt/a B 301	0	0	0	0	0
ROUNDUP POWERMAX	32 fl oz/a B 603	0	0	0	0	0
N-PAK - AMS	2.5 % v/v B 701	0	0	0	0	0
	Mean =	0	0	0	0	0
15 HALEX GT	3.6 pt/a B 207	0	0	0	0	5
AATREX	1.5 qt/a B 403	0	0	0	0	0
ACTIVATOR 90 - NIS	0.25 % v/v B 602	0	0	0	0	0
N-PAK - AMS	2.5 % v/v B 704	0	0	0	0	0
	Mean =	0	0	0	0	1
16 Untreated Check	208	0	0	0	0	0
	306	0	0	0	0	0
	506	0	0	0	0	0
	807	0	0	0	0	0
	Mean =	0	0	0	0	0

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type		W Weed	W Weed		W Weed	W Weed		
Pest Code		AMBTR	SETFA		AMBTR	SETFA		
Pest Name		Giant ragweed	Giant foxtail		Giant ragweed	Giant foxtail		
Crop Code	ZEAMX			ZEAMX				
Crop Name	Corn			Corn				
Part Rated	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P		
Rating Date	Jun-7-2016	Jun-7-2016	Jun-7-2016	Jun-15-2016	Jun-15-2016	Jun-15-2016		
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	42 8	42 8	42 8	50 8	50 8	50 8		
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	8 DA-C	8 DA-C	8 DA-C		
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	36 DE-1	36 DE-1	36 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	7	8	9	10	11	12
1 Untreated Check		101	0	0	0	0	0	0
		402	0	0	0	0	0	0
		608	0	0	0	0	0	0
		803	0	0	0	0	0	0
		Mean =	0	0	0	0	0	0
2 ANTHEM MAXX	4 fl oz/a A	102	0	50	95	0	70	100
AATREX	1.5 qt/a A	304	0	60	100	0	80	100
ROUNDUP POWERMAX	32 fl oz/a C	505	0	75	80	0	75	100
N-PAK - AMS	2.5 % v/v C	708	0	50	90	0	85	100
		Mean =	0	59	91	0	78	100
3 ANTHEM MAXX	4 fl oz/a A	103	0	80	95	0	85	100
AATREX	1.5 qt/a A	308	0	80	100	0	80	100
BALANCE FLEXX	2 fl oz/a A	504	0	90	85	0	85	99
ROUNDUP POWERMAX	32 fl oz/a C	808	0	60	100	0	80	100
N-PAK - AMS	2.5 % v/v C							
		Mean =	0	78	95	0	83	100
4 ANTHEM MAXX	4 fl oz/a A	104	0	85	95	0	85	100
HORNET	3 oz/a A	307	0	85	95	0	97	100
ROUNDUP POWERMAX	32 fl oz/a C	508	0	85	90	0	95	90
N-PAK - AMS	2.5 % v/v C	703	0	75	90	0	95	100
		Mean =	0	83	93	0	93	98
5 ACURON	2.5 qt/a A	105	0	95	100	0	95	100
ROUNDUP POWERMAX	32 fl oz/a C	406	0	100	100	0	100	100
N-PAK - AMS	2.5 % v/v C	503	0	100	99	0	100	100
		702	0	95	100	0	95	100
		Mean =	0	98	100	0	98	100

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type		W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail		W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail
Pest Code						
Pest Name						
Crop Code	ZEAMX			ZEAMX		
Crop Name	Corn			Corn		
Part Rated	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P
Rating Date	Jun-7-2016	Jun-7-2016	Jun-7-2016	Jun-15-2016	Jun-15-2016	Jun-15-2016
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	42 8	42 8	42 8	50 8	50 8	50 8
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	8 DA-C	8 DA-C	8 DA-C
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	36 DE-1	36 DE-1	36 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Rate Appl					
No. Name	Rate Unit Code Plot	7	8	9	10	11
6 CORVUS	5.6 fl oz/a A 106	0	90	95	0	95
AATREX	1.5 qt/a A 404	0	85	90	0	90
ROUNDUP POWERMAX	32 fl oz/a C 604	0	80	90	0	85
N-PAK - AMS	2.5 % v/v C 806	0	90	100	0	95
	Mean =	0	86	94	0	91
7 VERDICT	16 fl oz/a A 107	0	95	100	0	95
ROUNDUP POWERMAX	32 fl oz/a C 302	0	95	100	0	99
N-PAK - AMS	2.5 % v/v C 502	0	95	100	0	100
	805	0	90	100	0	95
	Mean =	0	94	100	0	97
8 RESICORE	2.75 qt/a A 108	0	95	100	0	95
ROUNDUP POWERMAX	32 fl oz/a C 401	0	95	100	0	97
N-PAK - AMS	2.5 % v/v C 606	0	97	100	0	97
	801	0	95	100	0	95
	Mean =	0	96	100	0	96
9 ANTHEM MAXX	4 fl oz/a A 201	5	95	100	5	92
AATREX	1.5 qt/a A 408	0	95	100	0	95
SOLSTICE	3 fl oz/a D 501	5	95	100	0	99
ROUNDUP POWERMAX	32 fl oz/a D 707	5	95	100	0	90
PRIME OIL - COC	0.5 % v/v D					
N-PAK - AMS	2.5 % v/v D					
	Mean =	4	95	100	1	94
10 DEGREE XTRA	3 qt/a A 202	0	95	100	0	95
IMPACT	0.75 fl oz/a D 407	0	90	100	0	97
ROUNDUP POWERMAX	32 fl oz/a D 607	0	80	100	0	90
MSO ULTRA	1 % v/v D 706	0	90	100	0	97
N-PAK - AMS	2.5 % v/v D					
	Mean =	0	89	100	0	95
11 ANTHEM MAXX	4 fl oz/a A 203	5	100	100	5	100
SOLSTICE	2.5 fl oz/a D 305	0	100	100	0	99
AATREX	1.5 qt/a D 601	0	100	100	5	95
ROUNDUP POWERMAX	32 fl oz/a D 802	5	100	100	0	100
PRIME OIL - COC	0.5 % v/v D					
N-PAK - AMS	2.5 % v/v D					
	Mean =	3	100	100	3	99
12 ANTHEM MAXX	4 fl oz/a A 204	10	100	100	5	100
AATREX	1.5 qt/a A 405	10	100	100	5	97
SOLSTICE	2.5 fl oz/a D 605	5	100	100	0	95
AATREX	1 pt/a D 804	5	100	100	0	95
ROUNDUP POWERMAX	32 fl oz/a D					
PRIME OIL - COC	0.5 % v/v D					
N-PAK - AMS	2.5 % v/v D					
	Mean =	8	100	100	3	97

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type		W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail		W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail
Pest Code						
Pest Name						
Crop Code	ZEAMX			ZEAMX		
Crop Name	Corn			Corn		
Part Rated	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P
Rating Date	Jun-7-2016	Jun-7-2016	Jun-7-2016	Jun-15-2016	Jun-15-2016	Jun-15-2016
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	42 8	42 8	42 8	50 8	50 8	50 8
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	8 DA-C	8 DA-C	8 DA-C
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	36 DE-1	36 DE-1	36 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Rate Appl					
No. Name	Rate Unit Code Plot	7	8	9	10	11
13 ANTHEM MAXX	2 fl oz/a B 205	0	100	100	0	100
SOLSTICE	2.5 fl oz/a B 303	0	100	95	0	95
AATREX	1.5 qt/a B 507	0	100	95	0	95
ROUNDUP POWERMAX	32 fl oz/a B 705	0	100	85	0	95
N-PAK - AMS	2.5 % v/v B					
	Mean =	0	100	94	0	96
14 ANTHEM MAXX	4 fl oz/a B 206	0	100	100	0	99
AATREX	1.5 qt/a B 301	0	90	100	0	80
ROUNDUP POWERMAX	32 fl oz/a B 603	0	85	90	0	85
N-PAK - AMS	2.5 % v/v B 701	0	85	100	0	85
	Mean =	0	90	98	0	87
15 HALEX GT	3.6 pt/a B 207	0	100	95	0	99
AATREX	1.5 qt/a B 403	0	100	100	0	95
ACTIVATOR 90 - NIS	0.25 % v/v B 602	5	100	95	0	95
N-PAK - AMS	2.5 % v/v B 704	0	95	95	0	95
	Mean =	1	99	96	0	96
16 Untreated Check	208	0	0	0	0	0
	306	0	0	0	0	0
	506	0	0	0	0	0
	807	0	0	0	0	0
	Mean =	0	0	0	0	0

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMBTR	SETFA	AMBTR	SETFA				
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail				
Crop Code					ZEAMX	ZEAMX		
Crop Name					Corn	Corn		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C		
Rating Date	Jun-24-2016	Jun-24-2016	Jul-7-2016	Jul-7-2016	Oct-8-2016	Oct-8-2016		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	YIELD	MOICON		
Rating Unit	%	%	%	%	lb/plot	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	59 17	59 17	72 30	72 30	165 123	165 123		
Trt-Eval Interval	17 DA-C	17 DA-C	30 DA-C	30 DA-C	164 DA-A	164 DA-A		
Days After Emergence	45 DE-1	45 DE-1	58 DE-1	58 DE-1	151 DE-1	151 DE-1		
ARM Action Codes	P	P	P	P				
Number of Decimals	0	0	0	0	2	1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	13	14	15	16	17	18
1 Untreated Check		101	0	0	0	0	0.00	0.0
		402	0	0	0	0	0.00	0.0
		608	0	0	0	0	0.00	0.0
		803	0	0	0	0	0.00	0.0
		Mean =	0	0	0	0	0.00	0.0
2 ANTHEM MAXX	4 fl oz/a A	102	75	100	60	100	33.06	19.1
AATREX	1.5 qt/a A	304	80	95	70	90	38.01	19.1
ROUNDUP POWERMAX	32 fl oz/a C	505	85	100	90	90	42.15	18.1
N-PAK - AMS	2.5 % v/v C	708	90	95	90	80	39.14	18.0
		Mean =	83	98	78	90	38.09	18.6
3 ANTHEM MAXX	4 fl oz/a A	103	90	95	70	70	28.11	19.1
AATREX	1.5 qt/a A	308	90	100	95	95	36.61	18.7
BALANCE FLEXX	2 fl oz/a A	504	90	100	95	100	41.35	18.3
ROUNDUP POWERMAX	32 fl oz/a C	808	80	95	80	90	36.18	18.9
N-PAK - AMS	2.5 % v/v C							
		Mean =	88	98	85	89	35.56	18.7
4 ANTHEM MAXX	4 fl oz/a A	104	90	100	75	90	33.81	18.9
HORNET	3 oz/a A	307	95	99	97	95	37.15	19.0
ROUNDUP POWERMAX	32 fl oz/a C	508	95	90	95	90	40.16	18.1
N-PAK - AMS	2.5 % v/v C	703	85	95	85	90	40.75	19.0
		Mean =	91	96	88	91	37.97	18.8
5 ACURON	2.5 qt/a A	105	95	100	95	95	42.64	19.3
ROUNDUP POWERMAX	32 fl oz/a C	406	95	100	95	95	41.02	18.3
N-PAK - AMS	2.5 % v/v C	503	100	100	100	100	45.43	18.5
		702	95	100	95	100	41.02	18.4
		Mean =	96	100	96	98	42.53	18.6

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type	W Weed AMBTR	W Weed SETFA	W Weed AMBTR	W Weed SETFA	ZEAMX Corn		ZEAMX Corn	
Pest Code	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail	PLOT C		PLOT C	
Pest Name					YIELD		MOICON	
Crop Code					lb/plot			
Crop Name					1		1	
Part Rated					165 123		165 123	
Rating Date	Jun-24-2016	Jun-24-2016	Jul-7-2016	Jul-7-2016	Oct-8-2016		Oct-8-2016	
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	YIELD		MOICON	
Rating Unit	%	%	%	%	lb/plot			
Number of Subsamples	1	1	1	1	1		1	
Days After First/Last Applic.	59 17	59 17	72 30	72 30	165 123		165 123	
Trt-Eval Interval	17 DA-C	17 DA-C	30 DA-C	30 DA-C	164 DA-A		164 DA-A	
Days After Emergence	45 DE-1	45 DE-1	58 DE-1	58 DE-1	151 DE-1		151 DE-1	
ARM Action Codes	P	P	P	P				
Number of Decimals	0	0	0	0	2		1	
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	13	14	15	16	17	18
6 CORVUS	5.6 fl oz/a	A 106	90	95	90	90	37.58	18.9
AATREX	1.5 qt/a	A 404	90	90	90	90	45.17	18.7
ROUNDUP POWERMAX	32 fl oz/a	C 604	80	80	75	70	39.19	18.4
N-PAK - AMS	2.5 % v/v	C 806	85	70	80	80	39.19	18.8
		Mean =	86	84	84	83	40.28	18.7
7 VERDICT	16 fl oz/a	A 107	90	90	85	70	37.31	18.5
ROUNDUP POWERMAX	32 fl oz/a	C 302	95	90	95	70	40.48	19.0
N-PAK - AMS	2.5 % v/v	C 502	100	100	95	95	38.92	18.4
		805	80	70	70	60	41.35	18.8
		Mean =	91	88	86	74	39.52	18.7
8 RESICORE	2.75 qt/a	A 108	95	95	95	95	45.87	18.8
ROUNDUP POWERMAX	32 fl oz/a	C 401	97	100	99	100	32.68	19.8
N-PAK - AMS	2.5 % v/v	C 606	95	80	95	70	40.54	17.6
		801	95	100	97	100	28.32	19.0
		Mean =	96	94	97	91	36.85	18.8
9 ANTHEM MAXX	4 fl oz/a	A 201	90	100	85	90	25.47	19.6
AATREX	1.5 qt/a	A 408	90	100	85	100	39.19	18.8
SOLSTICE	3 fl oz/a	D 501	95	100	95	90	34.51	18.9
ROUNDUP POWERMAX	32 fl oz/a	D 707	80	80	80	80	42.37	18.0
PRIME OIL - COC	0.5 % v/v	D						
N-PAK - AMS	2.5 % v/v	D						
		Mean =	89	95	86	90	35.39	18.8
10 DEGREE XTRA	3 qt/a	A 202	90	100	85	95	33.06	19.6
IMPACT	0.75 fl oz/a	D 407	90	100	90	95	41.61	19.0
ROUNDUP POWERMAX	32 fl oz/a	D 607	70	100	65	90	36.18	19.3
MSO ULTRA	1 % v/v	D 706	80	95	65	90	39.95	18.3
N-PAK - AMS	2.5 % v/v	D						
		Mean =	83	99	76	93	37.70	19.0
11 ANTHEM MAXX	4 fl oz/a	A 203	100	100	100	100	39.03	19.1
SOLSTICE	2.5 fl oz/a	D 305	97	100	97	95	43.71	18.8
AATREX	1.5 qt/a	D 601	85	100	90	95	31.34	19.6
ROUNDUP POWERMAX	32 fl oz/a	D 802	95	100	90	100	40.97	19.0
PRIME OIL - COC	0.5 % v/v	D						
N-PAK - AMS	2.5 % v/v	D						
		Mean =	94	100	94	98	38.76	19.1
12 ANTHEM MAXX	4 fl oz/a	A 204	100	95	95	95	40.05	19.5
AATREX	1.5 qt/a	A 405	95	100	95	100	41.83	18.4
SOLSTICE	2.5 fl oz/a	D 605	90	85	95	60	40.97	18.6
AATREX	1 pt/a	D 804	85	95	75	90	36.99	19.0
ROUNDUP POWERMAX	32 fl oz/a	D						
PRIME OIL - COC	0.5 % v/v	D						
N-PAK - AMS	2.5 % v/v	D						
		Mean =	93	94	90	86	39.96	18.9

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type	W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail	W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail				
Pest Code								
Pest Name								
Crop Code					ZEAMX Corn	ZEAMX Corn		
Crop Name					PLOT C	PLOT C		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P				
Rating Date	Jun-24-2016	Jun-24-2016	Jul-7-2016	Jul-7-2016	Oct-8-2016	Oct-8-2016		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	YIELD	MOICON		
Rating Unit	%	%	%	%	lb/plot	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	59 17	59 17	72 30	72 30	165 123	165 123		
Trt-Eval Interval	17 DA-C	17 DA-C	30 DA-C	30 DA-C	164 DA-A	164 DA-A		
Days After Emergence	45 DE-1	45 DE-1	58 DE-1	58 DE-1	151 DE-1	151 DE-1		
ARM Action Codes	P	P	P	P				
Number of Decimals	0	0	0	0	2	1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	13	14	15	16	17	18
13 ANTHEM MAXX	2 fl oz/a B	205	99	85	95	70	39.25	18.4
SOLSTICE	2.5 fl oz/a B	303	95	80	95	.	39.19	19.0
AATREX	1.5 qt/a B	507	90	60	90	60	42.10	17.3
ROUNDUP POWERMAX	32 fl oz/a B	705	85	40	90	35	39.19	19.1
N-PAK - AMS	2.5 % v/v B							
	Mean =		92	66	93	55	39.93	18.4
14 ANTHEM MAXX	4 fl oz/a B	206	95	95	95	95	43.07	18.8
AATREX	1.5 qt/a B	301	75	90	70	80	30.21	19.7
ROUNDUP POWERMAX	32 fl oz/a B	603	70	80	60	65	36.29	18.2
N-PAK - AMS	2.5 % v/v B	701	65	100	60	95	33.97	18.9
	Mean =		76	91	71	84	35.88	18.9
15 HALEX GT	3.6 pt/a B	207	100	70	95	50	37.85	19.2
AATREX	1.5 qt/a B	403	95	70	90	60	38.92	19.7
ACTIVATOR 90 - NIS	0.25 % v/v B	602	80	95	75	85	39.52	19.1
N-PAK - AMS	2.5 % v/v B	704	90	60	85	60	43.55	18.1
	Mean =		91	74	86	64	39.96	19.0
16 Untreated Check		208	0	0	0	0	0.00	0.0
		306	0	0	0	0	0.00	0.0
		506	0	0	0	0	0.00	0.0
		807	0	0	0	0	0.00	0.0
	Mean =		0	0	0	0	0.00	0.0

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07	Location: TPAC	Trial Year: 2016
Protocol ID: 16S-TPAC-CORN-07	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Joe Ikley	
	Sponsor Contact: FMC - Nick Hustedde	

Pest Type				
Pest Code				
Pest Name				
Crop Code				ZEAMX
Crop Name				Corn
Part Rated				PLOT C
Rating Date				Oct-8-2016
Rating Type				YIELD
Rating Unit				BU
Number of Subsamples				1
Days After First/Last Applic.				165 123
Trt-Eval Interval				164 DA-A
Days After Emergence				151 DE-1
ARM Action Codes				TY1
Number of Decimals				1
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot		19
1 Untreated Check		101		0.0
		402		0.0
		608		0.0
		803		0.0
		Mean =		0.0
2 ANTHEM MAXX	4 fl oz/a A	102		196.9
AATREX	1.5 qt/a A	304		226.4
ROUNDUP POWERMAX	32 fl oz/a C	505		254.2
N-PAK - AMS	2.5 % v/v C	708		236.5
		Mean =		228.5
3 ANTHEM MAXX	4 fl oz/a A	103		167.5
AATREX	1.5 qt/a A	308		219.3
BALANCE FLEXX	2 fl oz/a A	504		248.9
ROUNDUP POWERMAX	32 fl oz/a C	808		216.2
N-PAK - AMS	2.5 % v/v C			
		Mean =		213.0
4 ANTHEM MAXX	4 fl oz/a A	104		202.0
HORNET	3 oz/a A	307		221.5
ROUNDUP POWERMAX	32 fl oz/a C	508		242.2
N-PAK - AMS	2.5 % v/v C	703		243.1
		Mean =		227.2
5 ACURON	2.5 qt/a A	105		253.4
ROUNDUP POWERMAX	32 fl oz/a C	406		246.8
N-PAK - AMS	2.5 % v/v C	503		272.7
		702		246.5
		Mean =		254.9

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type				
Pest Code				
Pest Name				
Crop Code				ZEAMX
Crop Name				Corn
Part Rated				PLOT C
Rating Date				Oct-8-2016
Rating Type				YIELD
Rating Unit				BU
Number of Subsamples				1
Days After First/Last Applic.				165 123
Trt-Eval Interval				164 DA-A
Days After Emergence				151 DE-1
ARM Action Codes				TY1
Number of Decimals				1
Trt Treatment		Rate	Appl	
No. Name		Rate Unit	Code Plot	19
6 CORVUS		5.6 fl oz/a	A 106	224.5
AATREX		1.5 qt/a	A 404	270.5
ROUNDUP POWERMAX		32 fl oz/a	C 604	235.6
N-PAK - AMS		2.5 % v/v	C 806	234.3
			Mean =	241.2
7 VERDICT		16 fl oz/a	A 107	223.8
ROUNDUP POWERMAX		32 fl oz/a	C 302	241.4
N-PAK - AMS		2.5 % v/v	C 502	233.9
			805	247.3
			Mean =	236.6
8 RESICORE		2.75 qt/a	A 108	274.3
ROUNDUP POWERMAX		32 fl oz/a	C 401	192.9
N-PAK - AMS		2.5 % v/v	C 606	246.0
			801	168.9
			Mean =	220.5
9 ANTHEM MAXX		4 fl oz/a	A 201	150.8
AATREX		1.5 qt/a	A 408	234.4
SOLSTICE		3 fl oz/a	D 501	206.1
ROUNDUP POWERMAX		32 fl oz/a	D 707	255.8
PRIME OIL - COC		0.5 % v/v	D	
N-PAK - AMS		2.5 % v/v	D	
			Mean =	211.8
10 DEGREE XTRA		3 qt/a	A 202	195.8
IMPACT		0.75 fl oz/a	D 407	248.2
ROUNDUP POWERMAX		32 fl oz/a	D 607	215.1
MSO ULTRA		1 % v/v	D 706	240.3
N-PAK - AMS		2.5 % v/v	D	
			Mean =	224.9
11 ANTHEM MAXX		4 fl oz/a	A 203	232.6
SOLSTICE		2.5 fl oz/a	D 305	261.4
AATREX		1.5 qt/a	D 601	185.5
ROUNDUP POWERMAX		32 fl oz/a	D 802	244.5
PRIME OIL - COC		0.5 % v/v	D	
N-PAK - AMS		2.5 % v/v	D	
			Mean =	231.0
12 ANTHEM MAXX		4 fl oz/a	A 204	237.5
AATREX		1.5 qt/a	A 405	251.2
SOLSTICE		2.5 fl oz/a	D 605	245.6
AATREX		1 pt/a	D 804	220.6
ROUNDUP POWERMAX		32 fl oz/a	D	
PRIME OIL - COC		0.5 % v/v	D	
N-PAK - AMS		2.5 % v/v	D	
			Mean =	238.7

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type				
Pest Code				
Pest Name				
Crop Code			ZEAMX	
Crop Name			Corn	
Part Rated			PLOT C	
Rating Date			Oct-8-2016	
Rating Type			YIELD	
Rating Unit			BU	
Number of Subsamples			1	
Days After First/Last Applic.			165 123	
Trt-Eval Interval			164 DA-A	
Days After Emergence			151 DE-1	
ARM Action Codes			TY1	
Number of Decimals			1	
Trt Treatment		Rate	Appl	
No. Name		Rate Unit	Code Plot	19
13 ANTHEM MAXX		2 fl oz/a B	205	236.0
SOLSTICE		2.5 fl oz/a B	303	233.9
AATREX		1.5 qt/a B	507	256.5
ROUNDUP POWERMAX		32 fl oz/a B	705	233.6
N-PAK - AMS		2.5 % v/v B		
		Mean =		240.0
14 ANTHEM MAXX		4 fl oz/a B	206	257.4
AATREX		1.5 qt/a B	301	178.6
ROUNDUP POWERMAX		32 fl oz/a B	603	218.5
N-PAK - AMS		2.5 % v/v B	701	202.9
		Mean =		214.3
15 HALEX GT		3.6 pt/a B	207	225.2
AATREX		1.5 qt/a B	403	230.1
ACTIVATOR 90 - NIS		0.25 % v/v B	602	235.3
N-PAK - AMS		2.5 % v/v B	704	262.7
		Mean =		238.3
16 Untreated Check			208	0.0
			306	0.0
			506	0.0
			807	0.0
		Mean =		0.0

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type
 W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
 AMBTR, Ambrosia trifida, = US
 SETFA, Setaria faberi, = US
Crop Code
 ZEAMX, BCOR, Zea mays, = US
Part Rated
 PLOT = plot
 C = Crop is Part Rated
 P = Pest is Part Rated
Rating Type
 PHYGEN = phytotoxicity - general / injury
 CONTRO = control / burndown or knockdown
 YIELD = yield
 MOICON = moisture content
Rating Unit
 % = percent
 lb/plot = pounds per plot
 BU = bushel
ARM Action Codes
 P = Rating scale of 0 to 100 (e.g. % control or injury)
 TY1 = $6.222857 * [17] * (100 - [18]) / 84.5$

Pest Type		W Weed		W Weed		W Weed		
Pest Code		AMBTR		AMBTR		SETFA		
Pest Name		Giant ragweed		Giant ragweed		Giant foxtail		
Crop Code	ZEAMX		ZEAMX			ZEAMX		
Crop Name	Corn		Corn			Corn		
Part Rated	PLOT C	PLOT P	PLOT C	PLOT P	PLOT P	PLOT C		
Rating Date	May-12-2016	May-12-2016	May-23-2016	May-23-2016	May-23-2016	May-30-2016		
Rating Type	PHYGEN	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	16 16	16 16	27 27	27 27	27 27	34 7		
Trt-Eval Interval	16 DA-A	16 DA-A	0 DA-B	0 DA-B	0 DA-B	7 DA-B		
Days After Emergence	2 DE-1	2 DE-1	13 DE-1	13 DE-1	13 DE-1	20 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	1	2	3	4	5	6
1 Untreated Check			0 -	0 c	0 -	0 d	0 -	0 -
2 ANTHEM MAXX	4 fl oz/a A		0 -	81 ab	3 -	76 abc	100 -	0 -
AATREX	1.5 qt/a A							
ROUNDUP POWERMAX	32 fl oz/a C							
N-PAK - AMS	2.5 % v/v C							
3 ANTHEM MAXX	4 fl oz/a A		0 -	87 ab	0 -	86 ab	100 -	0 -
AATREX	1.5 qt/a A							
BALANCE FLEXX	2 fl oz/a A							
ROUNDUP POWERMAX	32 fl oz/a C							
N-PAK - AMS	2.5 % v/v C							
4 ANTHEM MAXX	4 fl oz/a A		0 -	93 ab	0 -	89 a	100 -	0 -
HORNET	3 oz/a A							
ROUNDUP POWERMAX	32 fl oz/a C							
N-PAK - AMS	2.5 % v/v C							
5 ACURON	2.5 qt/a A		0 -	83 ab	0 -	94 a	100 -	0 -
ROUNDUP POWERMAX	32 fl oz/a C							
N-PAK - AMS	2.5 % v/v C							
6 CORVUS	5.6 fl oz/a A		0 -	74 ab	0 -	90 a	100 -	1 -
AATREX	1.5 qt/a A							
ROUNDUP POWERMAX	32 fl oz/a C							
N-PAK - AMS	2.5 % v/v C							
7 VERDICT	16 fl oz/a A		0 -	99 a	0 -	97 a	100 -	1 -
ROUNDUP POWERMAX	32 fl oz/a C							
N-PAK - AMS	2.5 % v/v C							

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type		W Weed		W Weed	W Weed			
Pest Code		AMBTR		AMBTR	SETFA			
Pest Name		Giant ragweed		Giant ragweed	Giant foxtail			
Crop Code	ZEAMX		ZEAMX			ZEAMX		
Crop Name	Corn		Corn			Corn		
Part Rated	PLOT C	PLOT P	PLOT C	PLOT P	PLOT P	PLOT C		
Rating Date	May-12-2016	May-12-2016	May-23-2016	May-23-2016	May-23-2016	May-30-2016		
Rating Type	PHYGEN	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	16 16	16 16	27 27	27 27	27 27	34 7		
Trt-Eval Interval	16 DA-A	16 DA-A	0 DA-B	0 DA-B	0 DA-B	7 DA-B		
Days After Emergence	2 DE-1	2 DE-1	13 DE-1	13 DE-1	13 DE-1	20 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	1	2	3	4	5	6
8 RESICORE	2.75 qt/a	A	0 -	97 a	3 -	97 a	100 -	1 -
ROUNDUP POWERMAX	32 fl oz/a	C						
N-PAK - AMS	2.5 % v/v	C						
9 ANTHEM MAXX	4 fl oz/a	A	0 -	71 ab	0 -	63 bc	100 -	0 -
AATREX	1.5 qt/a	A						
SOLSTICE	3 fl oz/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
PRIME OIL - COC	0.5 % v/v	D						
N-PAK - AMS	2.5 % v/v	D						
10 DEGREE XTRA	3 qt/a	A	0 -	66 b	3 -	53 c	100 -	0 -
IMPACT	0.75 fl oz/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
MSO ULTRA	1 % v/v	D						
N-PAK - AMS	2.5 % v/v	D						
11 ANTHEM MAXX	4 fl oz/a	A	0 -	65 b	0 -	53 c	100 -	0 -
SOLSTICE	2.5 fl oz/a	D						
AATREX	1.5 qt/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
PRIME OIL - COC	0.5 % v/v	D						
N-PAK - AMS	2.5 % v/v	D						
12 ANTHEM MAXX	4 fl oz/a	A	0 -	84 ab	0 -	78 abc	100 -	0 -
AATREX	1.5 qt/a	A						
SOLSTICE	2.5 fl oz/a	D						
AATREX	1 pt/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
PRIME OIL - COC	0.5 % v/v	D						
N-PAK - AMS	2.5 % v/v	D						
13 ANTHEM MAXX	2 fl oz/a	B	0 -	0 c	0 -	0 d	0 -	0 -
SOLSTICE	2.5 fl oz/a	B						
AATREX	1.5 qt/a	B						
ROUNDUP POWERMAX	32 fl oz/a	B						
N-PAK - AMS	2.5 % v/v	B						
14 ANTHEM MAXX	4 fl oz/a	B	0 -	0 c	0 -	0 d	0 -	0 -
AATREX	1.5 qt/a	B						
ROUNDUP POWERMAX	32 fl oz/a	B						
N-PAK - AMS	2.5 % v/v	B						
15 HALEX GT	3.6 pt/a	B	0 -	0 c	0 -	0 d	0 -	1 -
AATREX	1.5 qt/a	B						
ACTIVATOR 90 - NIS	0.25 % v/v	B						
N-PAK - AMS	2.5 % v/v	B						

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type		W Weed AMBTR Giant ragweed		W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail						
Pest Code											
Pest Name											
Crop Code	ZEAMX		ZEAMX			ZEAMX					
Crop Name	Corn		Corn			Corn					
Part Rated	PLOT C	PLOT P	PLOT C	PLOT P	PLOT P	PLOT C					
Rating Date	May-12-2016	May-12-2016	May-23-2016	May-23-2016	May-23-2016	May-30-2016					
Rating Type	PHYGEN	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN					
Rating Unit	%	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1	1					
Days After First/Last Applic.	16 16	16 16	27 27	27 27	27 27	34 7					
Trt-Eval Interval	16 DA-A	16 DA-A	0 DA-B	0 DA-B	0 DA-B	7 DA-B					
Days After Emergence	2 DE-1	2 DE-1	13 DE-1	13 DE-1	13 DE-1	20 DE-1					
ARM Action Codes	P	P	P	P	P	P					
Number of Decimals	0	0	0	0	0	0					
Trt Treatment	Rate	Appl									
No. Name	Rate Unit	Code	1	2	3	4	5	6			
16 Untreated Check	0 -		0 c		0 -		0 d		0 -		
LSD P=.05	.		18.0		3.1		18.5		.		1.7
Standard Deviation	0.0		12.6		2.1		13.0		0.0		1.2
CV	0.0		22.43		458.45		23.76		0.0		386.44
Bartlett's X2	0.0		30.221		0.0		40.846		0.0		0.0
P(Bartlett's X2)	.		0.001*		.		0.001*		.		.
Skewness	.		-0.5118		4.3911*		-0.4098		-0.8286*		3.7021*
Kurtosis	.		-1.5287*		17.8383*		-1.6301*		-1.3569*		12.0825*
Replicate F	0.000		0.457		1.241		1.684		0.000		2.143
Replicate Prob(F)	1.0000		0.7134		0.3062		0.1838		1.0000		0.1080
Treatment F	0.000		40.869		0.880		38.784		0.000		0.857
Treatment Prob(F)	1.0000		0.0001		0.5899		0.0001		1.0000		0.6129

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type Pest Code Pest Name		W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail		W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail		
Crop Code Crop Name Part Rated Rating Date	ZEAMX Corn PLOT C Jun-7-2016	PLOT P Jun-7-2016	PLOT P Jun-7-2016	ZEAMX Corn PLOT C Jun-15-2016	PLOT P Jun-15-2016	PLOT P Jun-15-2016		
Rating Type Rating Unit Number of Subsamples Days After First/Last Applic. Trt-Eval Interval Days After Emergence ARM Action Codes Number of Decimals	PHYGEN % 1 42 8 0 DA-C 28 DE-1 P 0	CONTRO % 1 42 8 0 DA-C 28 DE-1 P 0	CONTRO % 1 42 8 0 DA-C 28 DE-1 P 0	PHYGEN % 1 50 8 8 DA-C 36 DE-1 P 0	CONTRO % 1 50 8 8 DA-C 36 DE-1 P 0	CONTRO % 1 50 8 8 DA-C 36 DE-1 P 0		
Trt Treatment No. Name	Rate Rate Unit	Appl Code	7	8	9	10	11	12
1 Untreated Check			0 c	0 f	0 b	0 -	0 e	0 c
2 ANTHEM MAXX AATREX ROUNDUP POWERMAX N-PAK - AMS	4 fl oz/a A 1.5 qt/a A 32 fl oz/a C 2.5 % v/v C		0 c	59 e	91 a	0 -	78 d	100 a
3 ANTHEM MAXX AATREX BALANCE FLEXX ROUNDUP POWERMAX N-PAK - AMS	4 fl oz/a A 1.5 qt/a A 2 fl oz/a A 32 fl oz/a C 2.5 % v/v C		0 c	78 d	95 a	0 -	83 cd	100 a
4 ANTHEM MAXX HORNET ROUNDUP POWERMAX N-PAK - AMS	4 fl oz/a A 3 oz/a A 32 fl oz/a C 2.5 % v/v C		0 c	83 cd	93 a	0 -	93 ab	98 a
5 ACURON ROUNDUP POWERMAX N-PAK - AMS	2.5 qt/a A 32 fl oz/a C 2.5 % v/v C		0 c	98 ab	100 a	0 -	98 a	100 a
6 CORVUS AATREX ROUNDUP POWERMAX N-PAK - AMS	5.6 fl oz/a A 1.5 qt/a A 32 fl oz/a C 2.5 % v/v C		0 c	86 bcd	94 a	0 -	91 ab	100 a
7 VERDICT ROUNDUP POWERMAX N-PAK - AMS	16 fl oz/a A 32 fl oz/a C 2.5 % v/v C		0 c	94 ab	100 a	0 -	97 a	99 a

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type		W Weed	W Weed		W Weed	W Weed		
Pest Code		AMBTR	SETFA		AMBTR	SETFA		
Pest Name		Giant ragweed	Giant foxtail		Giant ragweed	Giant foxtail		
Crop Code	ZEAMX			ZEAMX				
Crop Name	Corn			Corn				
Part Rated	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P		
Rating Date	Jun-7-2016	Jun-7-2016	Jun-7-2016	Jun-15-2016	Jun-15-2016	Jun-15-2016		
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	42 8	42 8	42 8	50 8	50 8	50 8		
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	8 DA-C	8 DA-C	8 DA-C		
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	36 DE-1	36 DE-1	36 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	7	8	9	10	11	12
8 RESICORE	2.75 qt/a	A	0 c	96 ab	100 a	0 -	96 a	100 a
ROUNDUP POWERMAX	32 fl oz/a	C						
N-PAK - AMS	2.5 % v/v	C						
9 ANTHEM MAXX	4 fl oz/a	A	4 b	95 ab	100 a	1 -	94 ab	98 a
AATREX	1.5 qt/a	A						
SOLSTICE	3 fl oz/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
PRIME OIL - COC	0.5 % v/v	D						
N-PAK - AMS	2.5 % v/v	D						
10 DEGREE XTRA	3 qt/a	A	0 c	89 abc	100 a	0 -	95 ab	100 a
IMPACT	0.75 fl oz/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
MSO ULTRA	1 % v/v	D						
N-PAK - AMS	2.5 % v/v	D						
11 ANTHEM MAXX	4 fl oz/a	A	3 bc	100 a	100 a	3 -	99 a	100 a
SOLSTICE	2.5 fl oz/a	D						
AATREX	1.5 qt/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
PRIME OIL - COC	0.5 % v/v	D						
N-PAK - AMS	2.5 % v/v	D						
12 ANTHEM MAXX	4 fl oz/a	A	8 a	100 a	100 a	3 -	97 a	97 a
AATREX	1.5 qt/a	A						
SOLSTICE	2.5 fl oz/a	D						
AATREX	1 pt/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
PRIME OIL - COC	0.5 % v/v	D						
N-PAK - AMS	2.5 % v/v	D						
13 ANTHEM MAXX	2 fl oz/a	B	0 c	100 a	94 a	0 -	96 a	83 b
SOLSTICE	2.5 fl oz/a	B						
AATREX	1.5 qt/a	B						
ROUNDUP POWERMAX	32 fl oz/a	B						
N-PAK - AMS	2.5 % v/v	B						
14 ANTHEM MAXX	4 fl oz/a	B	0 c	90 abc	98 a	0 -	87 bc	95 a
AATREX	1.5 qt/a	B						
ROUNDUP POWERMAX	32 fl oz/a	B						
N-PAK - AMS	2.5 % v/v	B						
15 HALEX GT	3.6 pt/a	B	1 c	99 a	96 a	0 -	96 a	93 a
AATREX	1.5 qt/a	B						
ACTIVATOR 90 - NIS	0.25 % v/v	B						
N-PAK - AMS	2.5 % v/v	B						

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type		W Weed AMBTR	W Weed SETFA		W Weed AMBTR	W Weed SETFA		
Pest Code		Giant ragweed	Giant foxtail		Giant ragweed	Giant foxtail		
Pest Name								
Crop Code	ZEAMX			ZEAMX				
Crop Name	Corn			Corn				
Part Rated	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P		
Rating Date	Jun-7-2016	Jun-7-2016	Jun-7-2016	Jun-15-2016	Jun-15-2016	Jun-15-2016		
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	42 8	42 8	42 8	50 8	50 8	50 8		
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	8 DA-C	8 DA-C	8 DA-C		
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	36 DE-1	36 DE-1	36 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	7	8	9	10	11	12
16 Untreated Check	0 c	0 f	0 b	0 -	0 e	0 c		
LSD P=.05	2.0	7.4	5.0	1.7	5.6	4.8		
Standard Deviation	1.4	5.2	3.5	1.2	3.9	3.4		
CV	146.06	6.55	4.14	298.86	4.84	3.94		
Bartlett's X2	0.121	23.85	16.797	0.078	18.323	17.04		
P(Bartlett's X2)	0.989	0.005*	0.019*	0.962	0.146	0.017*		
Skewness	2.546*	-1.8518*	-2.2423*	3.22*	-2.1383*	-2.2158*		
Kurtosis	6.0653*	2.0256*	3.2719*	8.6372*	2.9711*	3.1818*		
Replicate F	0.556	2.048	3.240	1.815	0.145	0.692		
Replicate Prob(F)	0.6471	0.1206	0.0307	0.1579	0.9326	0.5617		
Treatment F	9.111	158.843	359.519	2.274	269.044	398.826		
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0172	0.0001	0.0001		

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type Pest Code Pest Name	W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail	W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail				
Crop Code Crop Name Part Rated Rating Date Rating Type Rating Unit Number of Subsamples Days After First/Last Applic. Trt-Eval Interval Days After Emergence ARM Action Codes Number of Decimals	PLOT P Jun-24-2016 CONTRO % 1 59 17 17 DA-C 45 DE-1 P 0	PLOT P Jun-24-2016 CONTRO % 1 59 17 17 DA-C 45 DE-1 P 0	PLOT P Jul-7-2016 CONTRO % 1 72 30 30 DA-C 58 DE-1 P 0	PLOT P Jul-7-2016 CONTRO % 1 72 30 30 DA-C 58 DE-1 P 0	ZEAMX Corn PLOT C Oct-8-2016 YIELD lb/plot 1 165 123 164 DA-A 151 DE-1 2	ZEAMX Corn PLOT C Oct-8-2016 MOICON % 1 165 123 164 DA-A 151 DE-1 1	ZEAMX Corn PLOT C Oct-8-2016 YIELD BU 1 165 123 164 DA-A 151 DE-1 TY1 1	
Trt Treatment No. Name Rate Unit Appl Code	13	14	15	16	17	18	19	
1 Untreated Check	0 c	0 d	0 c	0 d	0.00 b	0.0 b	0.0 b	
2 ANTHEM MAXX AATREX ROUNDUP POWERMAX N-PAK - AMS	4 fl oz/a A 1.5 qt/a A 32 fl oz/a C 2.5 % v/v C	83 ab	98 a	78 ab	90 a	38.09 a	18.6 a	228.5 a
3 ANTHEM MAXX AATREX BALANCE FLEXX ROUNDUP POWERMAX N-PAK - AMS	4 fl oz/a A 1.5 qt/a A 2 fl oz/a A 32 fl oz/a C 2.5 % v/v C	88 ab	98 a	85 ab	89 a	35.56 a	18.7 a	213.0 a
4 ANTHEM MAXX HORNET ROUNDUP POWERMAX N-PAK - AMS	4 fl oz/a A 3 oz/a A 32 fl oz/a C 2.5 % v/v C	91 a	96 a	88 ab	91 a	37.97 a	18.8 a	227.2 a
5 ACURON ROUNDUP POWERMAX N-PAK - AMS	2.5 qt/a A 32 fl oz/a C 2.5 % v/v C	96 a	100 a	96 a	98 a	42.53 a	18.6 a	254.9 a
6 CORVUS AATREX ROUNDUP POWERMAX N-PAK - AMS	5.6 fl oz/a A 1.5 qt/a A 32 fl oz/a C 2.5 % v/v C	86 ab	84 ab	84 ab	83 ab	40.28 a	18.7 a	241.2 a
7 VERDICT ROUNDUP POWERMAX N-PAK - AMS	16 fl oz/a A 32 fl oz/a C 2.5 % v/v C	91 a	88 ab	86 ab	74 abc	39.52 a	18.7 a	236.6 a

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: FMC - Nick Hustedde

Pest Type	W Weed AMBTR	W Weed SETFA	W Weed AMBTR	W Weed SETFA						
Pest Code										
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail						
Crop Code					ZEAMX	ZEAMX	ZEAMX			
Crop Name					Corn	Corn	Corn			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C	PLOT C			
Rating Date	Jun-24-2016	Jun-24-2016	Jul-7-2016	Jul-7-2016	Oct-8-2016	Oct-8-2016	Oct-8-2016			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	YIELD	MOICON	YIELD			
Rating Unit	%	%	%	%	lb/plot	%	BU			
Number of Subsamples	1	1	1	1	1	1	1			
Days After First/Last Applic.	59 17	59 17	72 30	72 30	165 123	165 123	165 123			
Trt-Eval Interval	17 DA-C	17 DA-C	30 DA-C	30 DA-C	164 DA-A	164 DA-A	164 DA-A			
Days After Emergence	45 DE-1	45 DE-1	58 DE-1	58 DE-1	151 DE-1	151 DE-1	151 DE-1			
ARM Action Codes	P	P	P	P			TY1			
Number of Decimals	0	0	0	0	2	1	1			
Trt Treatment No. Name	Rate Rate	Appl Unit	Code	13	14	15	16	17	18	19
8 RESICORE ROUNDUP POWERMAX N-PAK - AMS	2.75 qt/a 32 fl oz/a 2.5 % v/v	A C C		96 a	94 a	97 a	91 a	36.85 a	18.8 a	220.5 a
9 ANTHEM MAXX AATREX SOLSTICE ROUNDUP POWERMAX PRIME OIL - COC N-PAK - AMS	4 fl oz/a 1.5 qt/a 3 fl oz/a 32 fl oz/a 0.5 % v/v 2.5 % v/v	A A D D D D		89 ab	95 a	86 ab	90 a	35.39 a	18.8 a	211.8 a
10 DEGREE XTRA IMPACT ROUNDUP POWERMAX MSO ULTRA N-PAK - AMS	3 qt/a 0.75 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v	A D D D D		83 ab	99 a	76 ab	93 a	37.70 a	19.0 a	224.9 a
11 ANTHEM MAXX SOLSTICE AATREX ROUNDUP POWERMAX PRIME OIL - COC N-PAK - AMS	4 fl oz/a 2.5 fl oz/a 1.5 qt/a 32 fl oz/a 0.5 % v/v 2.5 % v/v	A D D D D D		94 a	100 a	94 a	98 a	38.76 a	19.1 a	231.0 a
12 ANTHEM MAXX AATREX SOLSTICE AATREX ROUNDUP POWERMAX PRIME OIL - COC N-PAK - AMS	4 fl oz/a 1.5 qt/a 2.5 fl oz/a 1 pt/a 32 fl oz/a 0.5 % v/v 2.5 % v/v	A A D D D D D		93 a	94 a	90 ab	86 a	39.96 a	18.9 a	238.7 a
13 ANTHEM MAXX SOLSTICE AATREX ROUNDUP POWERMAX N-PAK - AMS	2 fl oz/a 2.5 fl oz/a 1.5 qt/a 32 fl oz/a 2.5 % v/v	B B B B B		92 a	66 c	93 ab	55 c	39.93 a	18.4 a	240.0 a
14 ANTHEM MAXX AATREX ROUNDUP POWERMAX N-PAK - AMS	4 fl oz/a 1.5 qt/a 32 fl oz/a 2.5 % v/v	B B B B		76 b	91 a	71 b	84 ab	35.88 a	18.9 a	214.3 a
15 HALEX GT AATREX ACTIVATOR 90 - NIS N-PAK - AMS	3.6 pt/a 1.5 qt/a 0.25 % v/v 2.5 % v/v	B B B B		91 a	74 bc	86 ab	64 bc	39.96 a	19.0 a	238.3 a

Purdue Weed Science

Anthem Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-07	Location: TPAC	Trial Year: 2016
Protocol ID: 16S-TPAC-CORN-07	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Joe Ikley	
	Sponsor Contact: FMC - Nick Hustedde	

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, = US

SETFA, Setaria faberi, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Part Rated

PLOT = plot

C = Crop is Part Rated

P = Pest is Part Rated

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

YIELD = yield

MOICON = moisture content

Rating Unit

% = percent

lb/plot = pounds per plot

BU = bushel

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 = $6.222857 * [17] * (100 - [18]) / 84.5$