

Purdue Weed Science

Anthem Maxx & Solstice Pre & Post Corn Program

Trial ID: 17S-TPAC-CORN-05 Location: TPAC Trial Year: 2017
 Protocol ID: 17S-TPAC-CORN-05 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Dustin Johnson
 Sponsor Contact: N. Hustedde - FMC

General Trial Information

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

Discipline: H herbicide
Trial Status: E established
Initiation Date: Apr-25-2017

Trial Location

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

Latitude of LL Corner °: 40.29175 N
Longitude of LL Corner °: 86.91044 W

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Dustin Johnson **Title:** Research Associate
Organization: Purdue University
Address: 915 W. State Street
City+State/Prov: West Lafayette, IN
Postal Code: 47907 **E-mail:** john1357@purdue.edu
Country: USA United States

Investigator: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
Address: 915 W. State Street
City+State/Prov: West Lafayette, IN
Postal Code: 47907 **E-mail:** wgj@purdue.edu
Country: USA United States

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: DK62-08STXRIB
Description: RR/LL Stacked
Planting Rate, Unit: 32000 S/A **Planting Date:** Apr-25-2017
Depth, Unit: 1.5 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 IN **Planting Equipment:** PP Plot Planter
Soil Temperature, Unit: 70 F **Emergence Date:** May-12-2017
Soil Moisture: DRY dry

Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 2 Type: W **Code:** ECHSS Echinochloa sp.
Common Name: Barnyardgrass

Pest 3 Type: W **Code:** CHEAL Chenopodium album
Common Name: common lambsquarters

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:** 10 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB Randomized Complete Block (RCB)

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Field Prep./Maintenance:
171 lbs of N applied as UAN on 4/18/17

Soil Description

Description Name: TPAC- Field 4B
% OM: 2.9 **Texture:** SIL silt loam
pH: 6.2 **Soil Name:** Toronto-Millbrook
CEC: 13.3

Application Description

	A	B	C
Application Date:	Apr-25-2017	May-22-2017	May-31-2017
Appl. Start Time:	1:40 PM	12:00 PM	11:15 AM
Appl. Stop Time:	2:00 PM	12:10 PM	11:20 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PREPLA	POSPOS	POSPOS
Application Placement:	BROADC	BROADC	BROADC
Applied By:	B. MANSFIEL	M. ZIMMER	J. IKLEY
Air Temperature, Unit:	76 F	64 F	73 F
% Relative Humidity:	47	50	39
Wind Velocity, Unit:	8 MPH	3 MPH	8 MPH
Wind Direction:	SSE	SW	WNW
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	70 F	66 F	66 F
Soil Moisture:	DRY	VERWET	SLIWET
% Cloud Cover:	25	70	10

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH	BBCH
Stage Majority, Percent:		11	14
Stage Minimum, Percent:		12	13
Stage Maximum, Percent:		13	14

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Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:	00	32	13
Stage Minimum, Percent:	00	33	10
Stage Maximum, Percent:	00	34	19
Height, Unit:		1.25 IN	3 IN
Height Minimum, Maximum:		0.5 2	0.5 8
Density, Unit:		100 YD2	13 YD2
Pest 2 Code, Type, Scale:	ECHSS W	ECHSS W	ECHSS W
Stage Majority, Percent:	00	11	
Stage Minimum, Percent:	00	11	
Stage Maximum, Percent:	00	12	
Height, Unit:		1.25 IN	
Height Minimum, Maximum:		0.5 2	
Density, Unit:		100 YD2	
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:	00	31	
Stage Minimum, Percent:	00	31	
Stage Maximum, Percent:	00	32	
Height, Unit:		1.25 IN	
Height Minimum, Maximum:		0.5 2	

Application Equipment

	A	B	C
Appl. Equipment:	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK
Equipment Type:	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	29 PSI	18 PSI	18 PSI
Nozzle Type:	TTI	FLAFXR	FLAFXR
Nozzle Size:	TTI110015	XR11002	XR11002
Nozzle Spacing, Unit:	15 IN	15 IN	15 IN
Nozzles/Row:	8	8	8
Boom Length, Unit:	10 FT	10 FT	10 FT
Boom Height, Unit:	17 IN	17 IN	17 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	1.8 liters	1.8 liters	1.8 liters
Propellant:	COMCO2	COMCO2	COMCO2

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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 to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
1	UNTREATED CHECK								101	405	502	701
2	ANTHEM MAXX	4.3	LB/GAL	SC	4 fl oz/a	A	3.75 ml/mx		102	404	501	702
	CALLISTO	4	LB/GAL	L	5 fl oz/a	A	4.687 ml/mx					
	AATREX	4	LB/GAL	L	2 qt/a	A	60.0 ml/mx					
3	ANTHEM MAXX	4.3	LB/GAL	SC	4 fl oz/a	A	3.75 ml/mx		103	305	503	805
	BALANCE FLEXX	2	LB/GAL	L	3 fl oz/a	A	2.812 ml/mx					
	AATREX	4	LB/GAL	L	2 qt/a	A	60.0 ml/mx					
4	ANTHEM MAXX	4.3	LB/GAL	SC	4 fl oz/a	A	3.75 ml/mx		104	403	601	704
	HORNET	78.5 %		WG	3 oz/a	A	2.696 g/mx					
	AATREX	4	LB/GAL	L	2 qt/a	A	60.0 ml/mx					
5	ACURON	3.44	LB/GAL	ZC	2.5 qt/a	A	75.0 ml/mx		105	304	505	803
6	CORVUS	2.63	LB/GAL	SC	5.6 fl oz/a	A	5.25 ml/mx		201	303	602	705
	AATREX	4	LB/GAL	L	2 qt/a	A	60.0 ml/mx					
7	ANTHEM MAXX	4.3	LB/GAL	SC	4 fl oz/a	A	3.75 ml/mx		202	401	603	804
	AATREX	4	LB/GAL	L	1 qt/a	A	30.0 ml/mx					
	SOLSTICE	4	LB/GAL	L	2.5 fl oz/a	B	2.344 ml/mx					
	AATREX	4	LB/GAL	L	1 qt/a	B	30.0 ml/mx					
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	28 fl oz/a	B	26.25 ml/mx					
	COC	100 %		SL	0.5 % v/v	B	8.999 ml/mx					
	N-PAK AMS	3.4	LBA/GAL	L	2.5 % v/v	B	45.0 ml/mx					
8	ANTHEM MAXX	4.3	LB/GAL	SC	2 fl oz/a	C	1.875 ml/mx		203	302	605	703
	SOLSTICE	4	LB/GAL	L	2.5 fl oz/a	C	2.344 ml/mx					
	AATREX	4	LB/GAL	L	2 qt/a	C	60.0 ml/mx					
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	28 fl oz/a	C	26.25 ml/mx					
	COC	100 %		SL	0.5 % v/v	C	8.999 ml/mx					
	N-PAK AMS	3.4	LBA/GAL	L	2.5 % v/v	C	45.0 ml/mx					
9	ANTHEM MAXX	4.3	LB/GAL	SC	4 fl oz/a	C	3.75 ml/mx		204	402	604	802
	CALLISTO	4	LB/GAL	L	3 fl oz/a	C	2.812 ml/mx					
	AATREX	4	LB/GAL	L	1.5 qt/a	C	45.0 ml/mx					
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	28 fl oz/a	C	26.25 ml/mx					
	N-PAK AMS	3.4	LBA/GAL	L	2.5 % v/v	C	45.0 ml/mx					
10	HALEX GT	4.389	LBAE/GAL	L	3.6 pt/a	C	54.0 ml/mx		205	301	504	801
	AATREX	4	LB/GAL	L	1.5 qt/a	C	45.0 ml/mx					
	ACTIVATOR 90 NIS	100 %		SL	0.25 % v/v	C	4.5 ml/mx					
	N-PAK AMS	3.4	LBA/GAL	L	2.5 % v/v	C	45.0 ml/mx					

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
25.781	ml	ANTHEM MAXX	4.3	LB/GAL	SC	
9.375	ml	CALLISTO	4	LB/GAL	L	
562.498	ml	AATREX	4	LB/GAL	L	
3.516	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	
5.859	ml	SOLSTICE	4	LB/GAL	L	
98.437	ml	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	
22.498	ml	COC	100	%	SL	
224.976	ml	N-PAK AMS	3.4	LBA/GAL	L	
67.500	ml	HALEX GT	4.389	LBAE/GAL	L	
5.624	ml	ACTIVATOR 90 NIS	100	%	SL	

* 'Per area' calculations based on spray volume= 15 GAL/AC, mix size= 1.8 liters (mix size basis).

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

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

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	ECHSS	CHEAL	AMBTR
Pest Name	Giant ragweed	Barnyardgrass	common lambsqu>	Giant ragweed
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	May-16-2017	May-16-2017	May-16-2017	May-16-2017
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A1	A1	A1	A1
Days After First/Last Applic.	21 21	21 21	21 21	21 21
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	4 DE-1	4 DE-1	4 DE-1	4 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	1	2
1 UNTREATED CHECK		101	0	0
		405	0	0
		502	0	0
		701	0	0
		Mean =	0	0
2 ANTHEM MAXX	4 fl oz/a A	102	95	100
CALLISTO	5 fl oz/a A	404	90	100
AATREX	2 qt/a A	501	90	100
		702	90	100
		Mean =	91	100
3 ANTHEM MAXX	4 fl oz/a A	103	90	100
BALANCE FLEXX	3 fl oz/a A	305	95	100
AATREX	2 qt/a A	503	90	100
		805	92	100
		Mean =	92	100
4 ANTHEM MAXX	4 fl oz/a A	104	85	100
HORNET	3 oz/a A	403	95	100
AATREX	2 qt/a A	601	85	100
		704	90	100
		Mean =	89	100
5 ACURON	2.5 qt/a A	105	85	100
		304	90	100
		505	75	100
		803	80	100
		Mean =	83	100
6 CORVUS	5.6 fl oz/a A	201	95	100
AATREX	2 qt/a A	303	95	100
		602	95	100
		705	90	100
		Mean =	94	100
7 ANTHEM MAXX	4 fl oz/a A	202	95	100
AATREX	1 qt/a A	401	75	100
SOLSTICE	2.5 fl oz/a B	603	90	100
AATREX	1 qt/a B	804	80	100
ROUNDUP POWERMAX	28 fl oz/a B			
COC	0.5 % v/v B			
N-PAK AMS	2.5 % v/v B			
		Mean =	85	100
8 ANTHEM MAXX	2 fl oz/a C	203		
SOLSTICE	2.5 fl oz/a C	302		
AATREX	2 qt/a C	605		
ROUNDUP POWERMAX	28 fl oz/a C	703		
COC	0.5 % v/v C			
N-PAK AMS	2.5 % v/v C			
		Mean =	.	.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	ECHSS	CHEAL		AMBTR
Pest Name	Giant ragweed	Barnyardgrass	common lambsqu>		Giant ragweed
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	May-16-2017	May-16-2017	May-16-2017	May-16-2017	May-22-2017
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A1	A1	A1	A1	A2
Days After First/Last Applic.	21 21	21 21	21 21	21 21	27 27
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	4 DE-1	4 DE-1	4 DE-1	4 DE-1	10 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
9 ANTHEM MAXX	4 fl oz/a C	204			
CALLISTO	3 fl oz/a C	402			
AATREX	1.5 qt/a C	604			
ROUNDUP POWERMAX	28 fl oz/a C	802			
N-PAK AMS	2.5 % v/v C				
	Mean =		.	.	.
10 HALEX GT	3.6 pt/a C	205			
AATREX	1.5 qt/a C	301			
ACTIVATOR 90 NIS	0.25 % v/v C	504			
N-PAK AMS	2.5 % v/v C	801			
	Mean =		.	.	.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHSS	CHEAL		AMBTR	ECHSS
Pest Name	Barnyardgrass	common lambsqu>		Giant ragweed	Barnyardgrass
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	May-22-2017	May-22-2017	May-22-2017	May-31-2017	May-31-2017
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A2	A2	A2	A3	A3
Days After First/Last Applic.	27 27	27 27	27 27	36 9	36 9
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	10 DE-1	10 DE-1	10 DE-1	19 DE-1	19 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	6	7	8
1 UNTREATED CHECK		101	0	0	0
		405	0	0	0
		502	0	0	0
		701	0	0	0
		Mean =	0	0	0
2 ANTHEM MAXX	4 fl oz/a A	102	100	100	0
CALLISTO	5 fl oz/a A	404	100	100	0
AATREX	2 qt/a A	501	100	100	0
		702	100	100	0
		Mean =	100	100	0
3 ANTHEM MAXX	4 fl oz/a A	103	100	100	0
BALANCE FLEXX	3 fl oz/a A	305	100	100	0
AATREX	2 qt/a A	503	100	100	0
		805	100	100	0
		Mean =	100	100	0
4 ANTHEM MAXX	4 fl oz/a A	104	100	100	0
HORNET	3 oz/a A	403	100	100	5
AATREX	2 qt/a A	601	100	100	0
		704	100	100	0
		Mean =	100	100	1
5 ACURON	2.5 qt/a A	105	100	100	0
		304	100	100	0
		505	100	100	0
		803	100	100	0
		Mean =	100	100	0
6 CORVUS	5.6 fl oz/a A	201	100	100	0
AATREX	2 qt/a A	303	100	100	0
		602	100	100	0
		705	100	100	0
		Mean =	100	100	0
7 ANTHEM MAXX	4 fl oz/a A	202	100	100	0
AATREX	1 qt/a A	401	100	100	0
SOLSTICE	2.5 fl oz/a B	603	100	100	0
AATREX	1 qt/a B	804	100	100	0
ROUNDUP POWERMAX	28 fl oz/a B				
COC	0.5 % v/v B				
N-PAK AMS	2.5 % v/v B				
		Mean =	100	100	0
8 ANTHEM MAXX	2 fl oz/a C	203			100
SOLSTICE	2.5 fl oz/a C	302			98
AATREX	2 qt/a C	605			99
ROUNDUP POWERMAX	28 fl oz/a C	703			99
COC	0.5 % v/v C				
N-PAK AMS	2.5 % v/v C				
		Mean =	.	.	99
					100

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Pest Type	W Weed	W Weed		W Weed	W Weed
Pest Code	ECHSS	CHEAL		AMBTR	ECHSS
Pest Name	Barnyardgrass	common lambsqu>		Giant ragweed	Barnyardgrass
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	May-22-2017	May-22-2017	May-22-2017	May-31-2017	May-31-2017
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A2	A2	A2	A3	A3
Days After First/Last Applic.	27 27	27 27	27 27	36 9	36 9
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	10 DE-1	10 DE-1	10 DE-1	19 DE-1	19 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	6	7	8
9 ANTHEM MAXX	4 fl oz/a C	204			
CALLISTO	3 fl oz/a C	402			100
AATREX	1.5 qt/a C	604			97
ROUNDUP POWERMAX	28 fl oz/a C	802			99
N-PAK AMS	2.5 % v/v C				98
	Mean =		.	.	.
					99
					100
10 HALEX GT	3.6 pt/a C	205			100
AATREX	1.5 qt/a C	301			98
ACTIVATOR 90 NIS	0.25 % v/v C	504			98
N-PAK AMS	2.5 % v/v C	801			95
	Mean =		.	.	.
					98
					100

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Pest Type	W Weed		W Weed	W Weed	W Weed		
Pest Code	CHEAL		AMBTR	ECHSS	CHEAL		
Pest Name	common lambsqu>		Giant ragweed	Barnyardgrass	common lambsqu>		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Crop Name	Corn	Corn	Corn	Corn	Corn		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Date	May-31-2017	May-31-2017	Jun-5-2017	Jun-5-2017	Jun-5-2017		
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Rating Timing	A3	A3	A4	A4	A4		
Days After First/Last Applic.	36 9	36 9	41 5	41 5	41 5		
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A		
Days After Emergence	19 DE-1	19 DE-1	24 DE-1	24 DE-1	24 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	11	12	13	14	15
1 UNTREATED CHECK		101	0	0	0	0	0
		405	0	0	0	0	0
		502	0	0	0	0	0
		701	0	0	0	0	0
		Mean =	0	0	0	0	0
2 ANTHEM MAXX	4 fl oz/a A	102	100	0	90	100	100
CALLISTO	5 fl oz/a A	404	100	0	90	100	100
AATREX	2 qt/a A	501	100	0	80	100	100
		702	100	0	90	100	100
		Mean =	100	0	88	100	100
3 ANTHEM MAXX	4 fl oz/a A	103	100	0	85	100	100
BALANCE FLEXX	3 fl oz/a A	305	100	0	90	100	100
AATREX	2 qt/a A	503	100	0	85	100	100
		805	100	0	90	100	100
		Mean =	100	0	88	100	100
4 ANTHEM MAXX	4 fl oz/a A	104	100	0	85	100	100
HORNET	3 oz/a A	403	100	15	90	100	100
AATREX	2 qt/a A	601	100	0	85	100	100
		704	100	0	90	100	100
		Mean =	100	4	88	100	100
5 ACURON	2.5 qt/a A	105	100	0	85	100	100
		304	100	0	90	100	100
		505	100	0	85	100	100
		803	100	0	90	100	100
		Mean =	100	0	88	100	100
6 CORVUS	5.6 fl oz/a A	201	100	0	90	100	100
AATREX	2 qt/a A	303	100	0	90	100	100
		602	100	0	90	100	100
		705	100	0	95	100	100
		Mean =	100	0	91	100	100
7 ANTHEM MAXX	4 fl oz/a A	202	100	0	90	100	100
AATREX	1 qt/a A	401	100	0	90	100	100
SOLSTICE	2.5 fl oz/a B	603	100	0	90	100	100
AATREX	1 qt/a B	804	100	0	85	100	100
ROUNDUP POWERMAX	28 fl oz/a B						
COC	0.5 % v/v B						
N-PAK AMS	2.5 % v/v B						
		Mean =	100	0	89	100	100
8 ANTHEM MAXX	2 fl oz/a C	203	100	40	100	100	100
SOLSTICE	2.5 fl oz/a C	302	100	25	95	100	100
AATREX	2 qt/a C	605	100	15	97	100	100
ROUNDUP POWERMAX	28 fl oz/a C	703	100	20	95	100	100
COC	0.5 % v/v C						
N-PAK AMS	2.5 % v/v C						
		Mean =	100	25	97	100	100

Purdue Weed Science

Anthem Maxx & Solstice Pre & Post Corn Program

Trial ID: 17S-TPAC-CORN-05 Location: TPAC Trial Year: 2017
 Protocol ID: 17S-TPAC-CORN-05 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Dustin Johnson
 Sponsor Contact: N. Hustedde - FMC

Pest Type	W Weed		W Weed	W Weed	W Weed
Pest Code	CHEAL		AMBTR	ECHSS	CHEAL
Pest Name	common lambsqu>		Giant ragweed	Barnyardgrass	common lambsqu>
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	May-31-2017	May-31-2017	Jun-5-2017	Jun-5-2017	Jun-5-2017
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A3	A3	A4	A4	A4
Days After First/Last Applic.	36 9	36 9	41 5	41 5	41 5
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	19 DE-1	19 DE-1	24 DE-1	24 DE-1	24 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	11	12	13
9 ANTHEM MAXX	4 fl oz/a C	204	100	40	100
CALLISTO	3 fl oz/a C	402	100	20	100
AATREX	1.5 qt/a C	604	100	20	100
ROUNDUP POWERMAX	28 fl oz/a C	802	100	25	95
N-PAK AMS	2.5 % v/v C				100
	Mean =		100	26	99
10 HALEX GT	3.6 pt/a C	205	100	35	100
AATREX	1.5 qt/a C	301	100	25	95
ACTIVATOR 90 NIS	0.25 % v/v C	504	100	20	99
N-PAK AMS	2.5 % v/v C	801	100	15	97
	Mean =		100	24	98
					100

Purdue Weed Science

Anthem Maxx & Solstice Pre & Post Corn Program

Trial ID: 17S-TPAC-CORN-05
 Protocol ID: 17S-TPAC-CORN-05
 Project ID:

Location: TPAC Trial Year: 2017
 Investigator: Dr. Bill Johnson
 Study Director: Dustin Johnson
 Sponsor Contact: N. Hustedde - FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	ECHSS	CHEAL		
Pest Name	Giant ragweed	Barnyardgrass	common lambsqu>		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-5-2017	Jun-13-2017	Jun-13-2017	Jun-13-2017	Jun-13-2017
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Assessed By	D. JOHNSON	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER
Rating Timing	A4	A5	A5	A5	A5
Days After First/Last Applic.	41 5	49 13	49 13	49 13	49 13
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	24 DE-1	32 DE-1	32 DE-1	32 DE-1	32 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	16	17	18
1 UNTREATED CHECK		101	0	0	0
		405	0	0	0
		502	0	0	0
		701	0	0	0
		Mean =	0	0	0
2 ANTHEM MAXX	4 fl oz/a A	102	0	80	100
CALLISTO	5 fl oz/a A	404	0	65	100
AATREX	2 qt/a A	501	0	35	100
		702	0	65	100
		Mean =	0	61	100
3 ANTHEM MAXX	4 fl oz/a A	103	0	65	100
BALANCE FLEXX	3 fl oz/a A	305	0	85	100
AATREX	2 qt/a A	503	0	60	100
		805	0	80	100
		Mean =	0	73	100
4 ANTHEM MAXX	4 fl oz/a A	104	0	75	100
HORNET	3 oz/a A	403	10	80	100
AATREX	2 qt/a A	601	0	45	100
		704	0	80	100
		Mean =	3	70	100
5 ACURON	2.5 qt/a A	105	0	80	100
		304	0	90	100
		505	0	85	100
		803	0	90	100
		Mean =	0	86	100
6 CORVUS	5.6 fl oz/a A	201	0	90	100
AATREX	2 qt/a A	303	0	93	100
		602	0	80	100
		705	0	85	100
		Mean =	0	87	100
7 ANTHEM MAXX	4 fl oz/a A	202	15	97	100
AATREX	1 qt/a A	401	15	97	100
SOLSTICE	2.5 fl oz/a B	603	15	99	100
AATREX	1 qt/a B	804	15	97	100
ROUNDUP POWERMAX	28 fl oz/a B				
COC	0.5 % v/v B				
N-PAK AMS	2.5 % v/v B				
		Mean =	15	98	100
8 ANTHEM MAXX	2 fl oz/a C	203	35	99	100
SOLSTICE	2.5 fl oz/a C	302	15	93	100
AATREX	2 qt/a C	605	15	90	100
ROUNDUP POWERMAX	28 fl oz/a C	703	20	95	100
COC	0.5 % v/v C				
N-PAK AMS	2.5 % v/v C				
		Mean =	21	94	100

Purdue Weed Science

Anthem Maxx & Solstice Pre & Post Corn Program

Trial ID: 17S-TPAC-CORN-05	Location: TPAC	Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-05	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Dustin Johnson	
	Sponsor Contact: N. Hustedde - FMC	

Pest Type		W Weed	W Weed	W Weed	
Pest Code		AMBTR	ECHSS	CHEAL	
Pest Name		Giant ragweed	Barnyardgrass	common lambsqu>	
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-5-2017	Jun-13-2017	Jun-13-2017	Jun-13-2017	Jun-13-2017
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Assessed By	D. JOHNSON	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER
Rating Timing	A4	A5	A5	A5	A5
Days After First/Last Applic.	41 5	49 13	49 13	49 13	49 13
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	24 DE-1	32 DE-1	32 DE-1	32 DE-1	32 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	16	17	18	19
9 ANTHEM MAXX	4 fl oz/a C 204	35	99	100	100
CALLISTO	3 fl oz/a C 402	20	98	100	100
AATREX	1.5 qt/a C 604	20	98	100	100
ROUNDUP POWERMAX	28 fl oz/a C 802	15	95	100	100
N-PAK AMS	2.5 % v/v C				
	Mean =	23	98	100	100
10 HALEX GT	3.6 pt/a C 205	25	98	100	100
AATREX	1.5 qt/a C 301	15	97	100	100
ACTIVATOR 90 NIS	0.25 % v/v C 504	20	98	100	100
N-PAK AMS	2.5 % v/v C 801	15	98	100	100
	Mean =	19	98	100	100

Purdue Weed Science

Anthem Maxx & Solstice Pre & Post Corn Program

Trial ID: 17S-TPAC-CORN-05 Location: TPAC Trial Year: 2017
 Protocol ID: 17S-TPAC-CORN-05 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Dustin Johnson
 Sponsor Contact: N. Hustedde - FMC

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMBTR	AMBTR
Pest Name	Giant ragweed	Giant ragweed	Giant ragweed
Crop Code	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -
Rating Date	Jun-19-2017	Jun-28-2017	Jul-18-2017
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Assessed By	M. ZIMMER	M. ZIMMER	D. JOHNSON
Rating Timing	A6	A7	A8
Days After First/Last Applic.	55 19	64 28	84 48
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	38 DE-1	47 DE-1	67 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code Plot	
			21
1 UNTREATED CHECK		101	0
		405	0
		502	0
		701	0
		Mean =	0
2 ANTHEM MAXX	4 fl oz/a A	102	55
CALLISTO	5 fl oz/a A	404	50
AATREX	2 qt/a A	501	10
		702	45
		Mean =	40
3 ANTHEM MAXX	4 fl oz/a A	103	30
BALANCE FLEXX	3 fl oz/a A	305	45
AATREX	2 qt/a A	503	25
		805	60
		Mean =	40
4 ANTHEM MAXX	4 fl oz/a A	104	30
HORNET	3 oz/a A	403	55
AATREX	2 qt/a A	601	5
		704	60
		Mean =	38
5 ACURON	2.5 qt/a A	105	55
		304	75
		505	70
		803	80
		Mean =	70
6 CORVUS	5.6 fl oz/a A	201	75
AATREX	2 qt/a A	303	85
		602	55
		705	70
		Mean =	71
7 ANTHEM MAXX	4 fl oz/a A	202	92
AATREX	1 qt/a A	401	92
SOLSTICE	2.5 fl oz/a B	603	96
AATREX	1 qt/a B	804	92
ROUNDUP POWERMAX	28 fl oz/a B		
COC	0.5 % v/v B		
N-PAK AMS	2.5 % v/v B		
		Mean =	93
8 ANTHEM MAXX	2 fl oz/a C	203	95
SOLSTICE	2.5 fl oz/a C	302	85
AATREX	2 qt/a C	605	80
ROUNDUP POWERMAX	28 fl oz/a C	703	80
COC	0.5 % v/v C		
N-PAK AMS	2.5 % v/v C		
		Mean =	85

Purdue Weed Science

Anthem Maxx & Solstice Pre & Post Corn Program

Trial ID: 17S-TPAC-CORN-05	Location: TPAC	Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-05	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Dustin Johnson	
	Sponsor Contact: N. Hustedde - FMC	

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	AMBTR	AMBTR	
Pest Name	Giant ragweed	Giant ragweed	Giant ragweed	
Crop Code	ZEAMX	ZEAMX	ZEAMX	
Crop Name	Corn	Corn	Corn	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Date	Jun-19-2017	Jun-28-2017	Jul-18-2017	
Rating Type	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	
Number of Subsamples	1	1	1	
Assessed By	M. ZIMMER	M. ZIMMER	D. JOHNSON	
Rating Timing	A6	A7	A8	
Days After First/Last Applic.	55 19	64 28	84 48	
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	
Days After Emergence	38 DE-1	47 DE-1	67 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	21	22
9 ANTHEM MAXX	4 fl oz/a C	204	96	95
CALLISTO	3 fl oz/a C	402	92	90
AATREX	1.5 qt/a C	604	95	93
ROUNDUP POWERMAX	28 fl oz/a C	802	80	85
N-PAK AMS	2.5 % v/v C			60
	Mean =		91	91
10 HALEX GT	3.6 pt/a C	205	95	90
AATREX	1.5 qt/a C	301	88	90
ACTIVATOR 90 NIS	0.25 % v/v C	504	87	90
N-PAK AMS	2.5 % v/v C	801	85	90
	Mean =		89	90

Purdue Weed Science

Anthem Maxx & Solstice Pre & Post Corn Program

Trial ID: 17S-TPAC-CORN-05	Location: TPAC	Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-05	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Dustin Johnson	
	Sponsor Contact: N. Hustedde - FMC	

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

ECHSS, Echinochloa sp., Barnyardgrass = US

CHEAL, Chenopodium album, common lambsquarters = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Part Rated

PLOT = plot

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

Rating Timing

A1 = 1st Assessment According to Trial Schedule

A2 = 2nd Assessment According to trial Schedule

A3 = 3rd Assessment According to Trial Schedule

A4 = 4th Assessment According to Trial Schedule

A5 = 5th Assessment According to Trial Schedule

A6 = 6th Assessment according to Trial Schedule

A7 = 7th Assessment According to Trial Schedule

A8 = 8th Assessment According to Trial Schedule

ARM Action Codes

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

Purdue Weed Science

Anthem Maxx & Solstice Pre & Post Corn Program

Trial ID: 17S-TPAC-CORN-05
 Protocol ID: 17S-TPAC-CORN-05
 Project ID:

Location: TPAC Trial Year: 2017
 Investigator: Dr. Bill Johnson
 Study Director: Dustin Johnson
 Sponsor Contact: N. Hustedde - FMC

Pest Type Pest Code Pest Name	W Weed AMBTR Giant ragweed	W Weed ECHSS Barnyardgrass	W Weed CHEAL common lambsqu>	W Weed AMBTR Giant ragweed	W Weed ECHSS Barnyardgrass			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX			
Crop Name	Corn	Corn	Corn	Corn	Corn			
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -			
Rating Date	May-16-2017	May-16-2017	May-16-2017	May-16-2017	May-22-2017			
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples Assessed By	1 D. JOHNSON	1 D. JOHNSON	1 D. JOHNSON	1 D. JOHNSON	1 D. JOHNSON			
Rating Timing	A1	A1	A1	A1	A2			
Days After First/Last Applic.	21 21	21 21	21 21	21 21	27 27			
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A			
Days After Emergence	4 DE-1	4 DE-1	4 DE-1	4 DE-1	10 DE-1			
ARM Action Codes	P	P	P	P	P			
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Rate Rate Unit	Appl Code	1	2	3	4	5	6
1 UNTREATED CHECK			0 c	0 b	0 b	0 a	0 b	0 b
2 ANTHEM MAXX CALLISTO AATREX	4 fl oz/a A 5 fl oz/a A 2 qt/a A		91 ab	100 a	100 a	0 a	95 a	100 a
3 ANTHEM MAXX BALANCE FLEXX AATREX	4 fl oz/a A 3 fl oz/a A 2 qt/a A		92 ab	100 a	100 a	0 a	95 a	100 a
4 ANTHEM MAXX HORNET AATREX	4 fl oz/a A 3 oz/a A 2 qt/a A		89 ab	100 a	100 a	3 a	95 a	100 a
5 ACURON	2.5 qt/a A		83 b	100 a	100 a	0 a	93 a	100 a
6 CORVUS AATREX	5.6 fl oz/a A 2 qt/a A		94 a	100 a	100 a	0 a	96 a	100 a
7 ANTHEM MAXX AATREX SOLSTICE AATREX ROUNDUP POWERMAX COC N-PAK AMS	4 fl oz/a A 1 qt/a A 2.5 fl oz/a B 1 qt/a B 28 fl oz/a B 0.5 % v/v B 2.5 % v/v B		85 ab	100 a	100 a	0 a	90 a	100 a
8 ANTHEM MAXX SOLSTICE AATREX ROUNDUP POWERMAX COC N-PAK AMS	2 fl oz/a C 2.5 fl oz/a C 2 qt/a C 28 fl oz/a C 0.5 % v/v C 2.5 % v/v C							
9 ANTHEM MAXX CALLISTO AATREX ROUNDUP POWERMAX N-PAK AMS	4 fl oz/a C 3 fl oz/a C 1.5 qt/a C 28 fl oz/a C 2.5 % v/v C							

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 2,3,6,7,10,11,14,15,18,19,20 because error mean square = 0.

Purdue Weed Science

Anthem Maxx & Solstice Pre & Post Corn Program						
Trial ID: 17S-TPAC-CORN-05		Location: TPAC		Trial Year: 2017		
Protocol ID: 17S-TPAC-CORN-05		Investigator: Dr. Bill Johnson				
Project ID:		Study Director: Dustin Johnson				
Sponsor Contact: N. Hustedde - FMC						
Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code	AMBTR	ECHSS	CHEAL		AMBTR	ECHSS
Pest Name	Giant ragweed	Barnyardgrass	common lambsqu>		Giant ragweed	Barnyardgrass
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	May-16-2017	May-16-2017	May-16-2017	May-16-2017	May-22-2017	May-22-2017
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A1	A1	A1	A1	A2	A2
Days After First/Last Applic.	21 21	21 21	21 21	21 21	27 27	27 27
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	4 DE-1	4 DE-1	4 DE-1	4 DE-1	10 DE-1	10 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
10 HALEX GT	3.6 pt/a	C				
AATREX	1.5 qt/a	C				
ACTIVATOR 90 NIS	0.25 % v/v	C				
N-PAK AMS	2.5 % v/v	C				
LSD P=.05	7.4	.			2.8	5.3
Standard Deviation	5.0	0.0	0.0	1.9	3.6	0.0
CV	6.52	0.0	0.0	529.15	4.44	0.0
Bartlett's X2	9.162	0.0	0.0	0.0	5.758	0.0
P(Bartlett's X2)	0.103	.	.	.	0.33	.
Skewness	-2.0248*	-2.1586*	-2.1586*	5.2915*	-2.1112*	-2.1586*
Kurtosis	2.5062*	2.8592*	2.8592*	28.0*	2.7359*	2.8592*
Replicate F	0.730	0.000	0.000	1.000	0.264	0.000
Replicate Prob(F)	0.5476	1.0000	1.0000	0.4155	0.8508	1.0000
Treatment F	185.334	0.000	0.000	1.000	395.034	0.000
Treatment Prob(F)	0.0001	1.0000	1.0000	0.4552	0.0001	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 2,3,6,7,10,11,14,15,18,19,20 because error mean square = 0.

Purdue Weed Science

Anthem Maxx & Solstice Pre & Post Corn Program

Trial ID: 17S-TPAC-CORN-05
 Protocol ID: 17S-TPAC-CORN-05
 Project ID:

Location: TPAC Trial Year: 2017
 Investigator: Dr. Bill Johnson
 Study Director: Dustin Johnson
 Sponsor Contact: N. Hustedde - FMC

Pest Type	W Weed	W Weed	W Weed	W Weed		
Pest Code	CHEAL	AMBTR	ECHSS	CHEAL		
Pest Name	common lambsqu>	Giant ragweed	Barnyardgrass	common lambsqu>		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Crop Name	Corn	Corn	Corn	Corn		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Date	May-22-2017	May-22-2017	May-31-2017	May-31-2017		
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%	%		
Number of Subsamples	1	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Rating Timing	A2	A2	A3	A3		
Days After First/Last Applic.	27 27	27 27	36 9	36 9		
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A		
Days After Emergence	10 DE-1	10 DE-1	19 DE-1	19 DE-1		
ARM Action Codes	P	P	P	P		
Number of Decimals	0	0	0	0		
Trt Treatment No. Name	Rate	Appl				
Rate Unit Code	7	8	9	10	11	
1 UNTREATED CHECK	0 b	0 a	0 d	0 b	0 b	
2 ANTHEM MAXX CALLISTO AATREX	4 fl oz/a A 5 fl oz/a A 2 qt/a A	100 a	0 a	88 bc	100 a	100 a
3 ANTHEM MAXX BALANCE FLEXX AATREX	4 fl oz/a A 3 fl oz/a A 2 qt/a A	100 a	0 a	91 bc	100 a	100 a
4 ANTHEM MAXX HORNET AATREX	4 fl oz/a A 3 oz/a A 2 qt/a A	100 a	1 a	89 bc	100 a	100 a
5 ACURON	2.5 qt/a A	100 a	0 a	88 bc	100 a	100 a
6 CORVUS AATREX	5.6 fl oz/a A 2 qt/a A	100 a	0 a	91 b	100 a	100 a
7 ANTHEM MAXX AATREX SOLSTICE AATREX ROUNDUP POWERMAX COC N-PAK AMS	4 fl oz/a A 1 qt/a A 2.5 fl oz/a B 1 qt/a B 28 fl oz/a B 0.5 % v/v B 2.5 % v/v B	100 a	0 a	83 c	100 a	100 a
8 ANTHEM MAXX SOLSTICE AATREX ROUNDUP POWERMAX COC N-PAK AMS	2 fl oz/a C 2.5 fl oz/a C 2 qt/a C 28 fl oz/a C 0.5 % v/v C 2.5 % v/v C			99 a	100 a	100 a
9 ANTHEM MAXX CALLISTO AATREX ROUNDUP POWERMAX N-PAK AMS	4 fl oz/a C 3 fl oz/a C 1.5 qt/a C 28 fl oz/a C 2.5 % v/v C			99 a	100 a	100 a

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 2,3,6,7,10,11,14,15,18,19,20 because error mean square = 0.

Purdue Weed Science

Anthem Maxx & Solstice Pre & Post Corn Program

Trial ID: 17S-TPAC-CORN-05
 Protocol ID: 17S-TPAC-CORN-05
 Project ID:

Location: TPAC Trial Year: 2017
 Investigator: Dr. Bill Johnson
 Study Director: Dustin Johnson
 Sponsor Contact: N. Hustedde - FMC

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMBTR	ECHSS	CHEAL
Pest Name	common lambsqu>	Giant ragweed	Barnyardgrass	common lambsqu>
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	May-22-2017	May-22-2017	May-31-2017	May-31-2017
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A2	A2	A3	A3
Days After First/Last Applic.	27 27	27 27	36 9	36 9
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	10 DE-1	10 DE-1	19 DE-1	19 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment No.	7	8	9	10
Treatment Name				
Rate			98 a	100 a
Unit				
Appl Code				
10 HALEX GT	3.6 pt/a	C		
AATREX	1.5 qt/a	C		
ACTIVATOR 90 NIS	0.25 % v/v	C		
N-PAK AMS	2.5 % v/v	C		
LSD P=.05	.	1.4	5.7	.
Standard Deviation	0.0	0.9	3.9	0.0
CV	0.0	529.15	4.79	0.0
Bartlett's X2	0.0	0.0	26.633	0.0
P(Bartlett's X2)	.	.	0.001*	.
Skewness	-2.1586*	5.2915*	-2.5359*	-2.7717*
Kurtosis	2.8592*	28.0*	5.1531*	5.9791*
Replicate F	0.000	1.000	0.503	0.000
Replicate Prob(F)	1.0000	0.4155	0.6832	1.0000
Treatment F	0.000	1.000	222.873	0.000
Treatment Prob(F)	1.0000	0.4552	0.0001	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 2,3,6,7,10,11,14,15,18,19,20 because error mean square = 0.

Purdue Weed Science

Anthem Maxx & Solstice Pre & Post Corn Program

Trial ID: 17S-TPAC-CORN-05
 Protocol ID: 17S-TPAC-CORN-05
 Project ID:

Location: TPAC Trial Year: 2017
 Investigator: Dr. Bill Johnson
 Study Director: Dustin Johnson
 Sponsor Contact: N. Hustedde - FMC

Pest Type		W Weed AMBTR Giant ragweed	W Weed ECHSS Barnyardgrass	W Weed CHEAL common lambsqu>		W Weed AMBTR Giant ragweed		
Pest Code								
Pest Name								
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Date	May-31-2017	Jun-5-2017	Jun-5-2017	Jun-5-2017	Jun-5-2017	Jun-13-2017		
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples Assessed By	1 D. JOHNSON	1 D. JOHNSON	1 D. JOHNSON	1 D. JOHNSON	1 D. JOHNSON	1 M. ZIMMER		
Rating Timing	A3	A4	A4	A4	A4	A5		
Days After First/Last Applic.	36 9	41 5	41 5	41 5	41 5	49 13		
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A		
Days After Emergence	19 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	32 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment No. Name	Rate	Appl Code	12	13	14	15	16	17
1 UNTREATED CHECK			0 b	0 c	0 b	0 b	0 b	0 c
2 ANTHEM MAXX CALLISTO AATREX	4 fl oz/a A 5 fl oz/a A 2 qt/a A		0 b	88 b	100 a	100 a	0 b	61 b
3 ANTHEM MAXX BALANCE FLEXX AATREX	4 fl oz/a A 3 fl oz/a A 2 qt/a A		0 b	88 b	100 a	100 a	0 b	73 b
4 ANTHEM MAXX HORNET AATREX	4 fl oz/a A 3 oz/a A 2 qt/a A		4 b	88 b	100 a	100 a	3 b	70 b
5 ACURON	2.5 qt/a A		0 b	88 b	100 a	100 a	0 b	86 a
6 CORVUS AATREX	5.6 fl oz/a A 2 qt/a A		0 b	91 b	100 a	100 a	0 b	87 a
7 ANTHEM MAXX AATREX SOLSTICE AATREX ROUNDUP POWERMAX COC N-PAK AMS	4 fl oz/a A 1 qt/a A 2.5 fl oz/a B 1 qt/a B 28 fl oz/a B 0.5 % v/v B 2.5 % v/v B		0 b	89 b	100 a	100 a	15 a	98 a
8 ANTHEM MAXX SOLSTICE AATREX ROUNDUP POWERMAX COC N-PAK AMS	2 fl oz/a C 2.5 fl oz/a C 2 qt/a C 28 fl oz/a C 0.5 % v/v C 2.5 % v/v C		25 a	97 a	100 a	100 a	21 a	94 a
9 ANTHEM MAXX CALLISTO AATREX ROUNDUP POWERMAX N-PAK AMS	4 fl oz/a C 3 fl oz/a C 1.5 qt/a C 28 fl oz/a C 2.5 % v/v C		26 a	99 a	100 a	100 a	23 a	98 a

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 2,3,6,7,10,11,14,15,18,19,20 because error mean square = 0.

Purdue Weed Science

Anthem Maxx & Solstice Pre & Post Corn Program						
Trial ID: 17S-TPAC-CORN-05		Location: TPAC		Trial Year: 2017		
Protocol ID: 17S-TPAC-CORN-05		Investigator: Dr. Bill Johnson				
Project ID:		Study Director: Dustin Johnson				
Sponsor Contact: N. Hustedde - FMC						

Pest Type		W Weed AMBTR	W Weed ECHSS	W Weed CHEAL		W Weed AMBTR	
Pest Code		Giant ragweed	Barnyardgrass	common lambsqu>		Giant ragweed	
Pest Name							
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	
Rating Date	May-31-2017	Jun-5-2017	Jun-5-2017	Jun-5-2017	Jun-5-2017	Jun-13-2017	
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	
Rating Unit	%	%	%	%	%	%	
Number of Subsamples	1	1	1	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	M. ZIMMER	
Rating Timing	A3	A4	A4	A4	A4	A5	
Days After First/Last Applic.	36 9	41 5	41 5	41 5	41 5	49 13	
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	
Days After Emergence	19 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	32 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	12	13	14	15	16	17
10 HALEX GT	3.6 pt/a C	24 a	98 a	100 a	100 a	19 a	98 a
AATREX	1.5 qt/a C						
ACTIVATOR 90 NIS	0.25 % v/v C						
N-PAK AMS	2.5 % v/v C						
LSD P=.05		7.8	4.1	.	.	6.3	11.9
Standard Deviation		5.4	2.8	0.0	0.0	4.4	8.2
CV		68.22	3.44	0.0	0.0	54.46	10.75
Bartlett's X2		0.411	3.245	0.0	0.0	2.094	42.39
P(Bartlett's X2)		0.938	0.918	.	.	0.553	0.001*
Skewness		1.3314*	-2.6054*	-2.7717*	-2.7717*	1.0122*	-1.7811*
Kurtosis		0.5852	5.4229*	5.9791*	5.9791*	0.1585	2.2202*
Replicate F		2.620	0.885	0.000	0.000	2.195	3.671
Replicate Prob(F)		0.0712	0.4616	1.0000	1.0000	0.1117	0.0244
Treatment F		19.585	428.017	0.000	0.000	21.088	52.652
Treatment Prob(F)		0.0001	0.0001	1.0000	1.0000	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 2,3,6,7,10,11,14,15,18,19,20 because error mean square = 0.

Purdue Weed Science

Anthem Maxx & Solstice Pre & Post Corn Program						
Trial ID: 17S-TPAC-CORN-05		Location: TPAC		Trial Year: 2017		
Protocol ID: 17S-TPAC-CORN-05		Investigator: Dr. Bill Johnson				
Project ID:		Study Director: Dustin Johnson				
Sponsor Contact: N. Hustedde - FMC						

Pest Type Pest Code Pest Name	W Weed ECHSS Barnyardgrass	W Weed CHEAL common lambsqu>	W Weed AMBTR Giant ragweed	W Weed AMBTR Giant ragweed	W Weed AMBTR Giant ragweed			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX			
Crop Name	Corn	Corn	Corn	Corn	Corn			
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -			
Rating Date	Jun-13-2017	Jun-13-2017	Jun-13-2017	Jun-19-2017	Jun-28-2017			
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Assessed By	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER			
Rating Timing	A5	A5	A5	A6	A7			
Days After First/Last Applic.	49 13	49 13	49 13	55 19	64 28			
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A			
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	38 DE-1	47 DE-1			
ARM Action Codes	P	P	P	P	P			
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Rate Rate Unit	Appl Code	18	19	20	21	22	23
1 UNTREATED CHECK			0 b	0 b	0 a	0 c	0 d	0 c
2 ANTHEM MAXX CALLISTO AATREX	4 fl oz/a A 5 fl oz/a A 2 qt/a A		100 a	100 a	0 a	40 b	21 c	3 c
3 ANTHEM MAXX BALANCE FLEXX AATREX	4 fl oz/a A 3 fl oz/a A 2 qt/a A		100 a	100 a	0 a	40 b	25 c	3 c
4 ANTHEM MAXX HORNET AATREX	4 fl oz/a A 3 oz/a A 2 qt/a A		100 a	100 a	0 a	38 b	21 c	0 c
5 ACURON	2.5 qt/a A		100 a	100 a	0 a	70 a	63 b	35 b
6 CORVUS AATREX	5.6 fl oz/a A 2 qt/a A		100 a	100 a	0 a	71 a	60 b	30 bc
7 ANTHEM MAXX AATREX SOLSTICE AATREX ROUNDUP POWERMAX COC N-PAK AMS	4 fl oz/a A 1 qt/a A 2.5 fl oz/a B 1 qt/a B 28 fl oz/a B 0.5 % v/v B 2.5 % v/v B		100 a	100 a	0 a	93 a	93 a	75 a
8 ANTHEM MAXX SOLSTICE AATREX ROUNDUP POWERMAX COC N-PAK AMS	2 fl oz/a C 2.5 fl oz/a C 2 qt/a C 28 fl oz/a C 0.5 % v/v C 2.5 % v/v C		100 a	100 a	0 a	85 a	87 a	58 a
9 ANTHEM MAXX CALLISTO AATREX ROUNDUP POWERMAX N-PAK AMS	4 fl oz/a C 3 fl oz/a C 1.5 qt/a C 28 fl oz/a C 2.5 % v/v C		100 a	100 a	0 a	91 a	91 a	79 a

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 2,3,6,7,10,11,14,15,18,19,20 because error mean square = 0.

Purdue Weed Science

Anthem Maxx & Solstice Pre & Post Corn Program						
Trial ID: 17S-TPAC-CORN-05		Location: TPAC		Trial Year: 2017		
Protocol ID: 17S-TPAC-CORN-05		Investigator: Dr. Bill Johnson				
Project ID:		Study Director: Dustin Johnson				
Sponsor Contact: N. Hustedde - FMC						

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHSS	CHEAL		AMBTR	AMBTR	AMBTR
Pest Name	Barnyardgrass	common lambsqu>		Giant ragweed	Giant ragweed	Giant ragweed
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-13-2017	Jun-13-2017	Jun-13-2017	Jun-19-2017	Jun-28-2017	Jul-18-2017
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Assessed By	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER	D. JOHNSON
Rating Timing	A5	A5	A5	A6	A7	A8
Days After First/Last Applic.	49 13	49 13	49 13	55 19	64 28	84 48
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	38 DE-1	47 DE-1	67 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0
Trt Treatment						
No. Name	Rate	Rate	Rate	Rate	Rate	Rate
	Unit	Unit	Unit	Unit	Unit	Unit
	Code	Code	Code	Code	Code	Code
	18	19	20	21	22	23
10 HALEX GT	3.6 pt/a					
AATREX	1.5 qt/a					
ACTIVATOR 90 NIS	0.25 % v/v					
N-PAK AMS	2.5 % v/v					
LSD P=.05	.	.	.	17.4	17.1	22.8
Standard Deviation	0.0	0.0	0.0	12.0	11.8	15.7
CV	0.0	0.0	0.0	19.42	21.35	43.76
Bartlett's X2	0.0	0.0	0.0	19.534	17.187	19.732
P(Bartlett's X2)	.	.	.	0.012*	0.016*	0.006*
Skewness	-2.7717*	-2.7717*	.	-0.8132*	-0.2796	0.2884
Kurtosis	5.9791*	5.9791*	.	-0.583	-1.5961*	-1.6807*
Replicate F	0.000	0.000	0.000	2.932	2.551	1.826
Replicate Prob(F)	1.0000	1.0000	1.0000	0.0515	0.0766	0.1663
Treatment F	0.000	0.000	0.000	26.673	36.179	18.729
Treatment Prob(F)	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 2,3,6,7,10,11,14,15,18,19,20 because error mean square = 0.

Purdue Weed Science

Anthem Maxx & Solstice Pre & Post Corn Program

Trial ID: 17S-TPAC-CORN-05	Location: TPAC	Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-05	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Dustin Johnson	
	Sponsor Contact: N. Hustedde - FMC	

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

ECHSS, Echinochloa sp., Barnyardgrass = US

CHEAL, Chenopodium album, common lambsquarters = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Part Rated

PLOT = plot

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

Rating Timing

A1 = 1st Assessment According to Trial Schedule

A2 = 2nd Assessment According to trial Schedule

A3 = 3rd Assessment According to Trial Schedule

A4 = 4th Assessment According to Trial Schedule

A5 = 5th Assessment According to Trial Schedule

A6 = 6th Assessment according to Trial Schedule

A7 = 7th Assessment According to Trial Schedule

A8 = 8th Assessment According to Trial Schedule

ARM Action Codes

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