

Purdue Weed Science

Corn Showcase Treatments

Trial ID: 16S-TPAC-CORN-22 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-22 Investigator: Dr. Bill Johnson
 Project ID: 16C04H039 Study Director: Joe Ikley
 Sponsor Contact: AMVAC - Joe Argentine

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
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Investigator: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
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Cooperator: Jay Young **Role:** Superintendent
Organization: Purdue University
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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:** 12
Replications: 4 **Tillage Type:** CONTIL conventional-till
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

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Application Description

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

Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:		32G	32G
Stage Minimum, Percent:		31G	31G
Stage Maximum, Percent:		34G	34G
Height, Unit:		4 IN	3 IN
Height Minimum, Maximum:		3 5	1 5
Density, Unit:		120 YD2	90 YD2
Pest 2 Code, Type, Scale:	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
Stage Majority, Percent:		13	
Stage Minimum, Percent:		12	
Stage Maximum, Percent:		14	
Height, Unit:		1.25 IN	
Height Minimum, Maximum:		0.5 2	
Density, Unit:		75 YD2	

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Application Equipment

	A	B	C
Appl. Equipment:	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK
Equipment Type:	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	18 PSI	18 PSI	18 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	XR 11002	XR 11002	XR 11002
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:	MEIGS	MEIGS	MEIGS
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:	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	401	601	805
2	HARNESS XTRA 5.6	5.6 LB/GAL		SL	3.2 pt/a		A	48.0 ml/mx	102	306	505	801
	IMPACT	2.8 LB/GAL		L	0.75 fl oz/a		C	0.7031 ml/mx				
	AATREX	4 LB/GAL		L	1 pt/a		C	15.0 ml/mx				
	MSO ULTRA	100 %		L	1 % v/v		C	18.0 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL		L	2.5 % v/v		C	45.0 ml/mx				
3	HARNESS XTRA 5.6	5.6 LB/GAL		SL	3.2 pt/a		A	48.0 ml/mx	103	403	506	701
	IMPACT	2.8 LB/GAL		L	0.75 fl oz/a		C	0.7031 ml/mx				
	LIBERTY 280 SL	2.34 LB/GAL		SL	29 fl oz/a		C	27.19 ml/mx				
	AATREX	4 LB/GAL		L	1 pt/a		C	15.0 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL		L	2.5 % v/v		C	45.0 ml/mx				
4	HARNESS XTRA 5.6	5.6 LB/GAL		SL	3.2 pt/a		A	48.0 ml/mx	104	302	605	804
	IMPACT	2.8 LB/GAL		L	0.75 fl oz/a		C	0.7031 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a		C	30.0 ml/mx				
	AATREX	4 LB/GAL		L	1 pt/a		C	15.0 ml/mx				
	MSO ULTRA	100 %		L	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				
5	HARNESS XTRA 5.6	5.6 LB/GAL		SL	3.2 pt/a		B	48.0 ml/mx	105	304	501	806
	IMPACT	2.8 LB/GAL		L	0.75 fl oz/a		B	0.7031 ml/mx				
	MSO ULTRA	100 %		L	1 % v/v		B	18.0 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL		L	2.5 % v/v		B	45.0 ml/mx				
6	HALEX GT	4.389 LBAE/GAL		L	3.6 pt/a		B	54.0 ml/mx	106	406	604	706
	AATREX	4 LB/GAL		L	1 pt/a		B	15.0 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				
7	INSTIGATE @ 6 OZ/A								201	405	603	704
	RESOLVE	25 %		DF	0.25 oz ai/a		A	0.8987 g/mx				
	MESOTRIONE	50 %		WG	2.5 oz ai/a		A	4.493 g/mx				
	CINCH ATZ	5.5 LB/GAL		L	2 qt/a		A	60.0 ml/mx				

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 Project ID: 16C04H039 Study Director: Joe Ikley
 Sponsor Contact: AMVAC - Joe Argentine

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
8	CINCH ATZ REALM Q @ 4 OZ/A	5.5 LB/GAL	L	L	2 qt/a	A	60.0 ml/mx	202	301	504	702
	MESOTRIONE	50 %	WG		1.25 oz ai/a	C	2.247 g/mx				
	RESOLVE	25 %	DF		0.3 oz ai/a	C	1.078 g/mx				
	ISOXADIFEN-ETHYL	50 %	WG		0.15 oz ai/a	C	0.2696 g/mx				
	ABUNDIT EXTRA	3 LBAE/GAL	SL		1 qt/a	C	30.0 ml/mx				
	AATREX	4 LB/GAL	L		1 qt/a	C	30.0 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL	SL		2.5 % v/v	C	45.0 ml/mx				
9	CINCH ATZ REALM Q @ 4 OZ/A	5.5 LB/GAL	L	L	2 qt/a	B	60.0 ml/mx	203	404	502	803
	MESOTRIONE	50 %	WG		1.25 oz ai/a	B	2.247 g/mx				
	RESOLVE	25 %	DF		0.3 oz ai/a	B	1.078 g/mx				
	ISOXADIFEN-ETHYL	50 %	WG		0.15 oz ai/a	B	0.2696 g/mx				
	ABUNDIT EXTRA	3 LBAE/GAL	SL		1 qt/a	B	30.0 ml/mx				
	CLARITY	4 LBAE/GAL	L		4 fl oz/a	B	3.75 ml/mx				
10	INSTIGATE @ 6 OZ/A							204	303	606	802
	RESOLVE	25 %	DF		0.25 oz ai/a	A	0.8987 g/mx				
	MESOTRIONE	50 %	WG		2.5 oz ai/a	A	4.493 g/mx				
	AATREX	4 LB/GAL	L		1 qt/a	A	30.0 ml/mx				
	ABUNDIT EXTRA	3 LBAE/GAL	SL		1 qt/a	C	30.0 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL	SL		2.5 % v/v	C	45.0 ml/mx				
11	CINCH ATZ ABUNDIT EXTRA	5.5 LB/GAL	L	L	2.1 qt/a	A	63.0 ml/mx	205	402	602	705
	N-PAK - AMS	3 LBAE/GAL	SL		1 qt/a	C	30.0 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL	SL		2.5 % v/v	C	45.0 ml/mx				
12	Untreated Check							206	305	503	703

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
240.000	ml	HARNESS XTRA 5.6	5.6	LB/GAL	SL	
3.516	ml	IMPACT	2.8	LB/GAL	L	
150.000	ml	AATREX	4	LB/GAL	L	
56.244	ml	MSO ULTRA	100	%	L	
281.219	ml	N-PAK - AMS	3.4	LBA/GAL	L	
33.984	ml	LIBERTY 280 SL	2.34	LB/GAL	SL	
37.500	ml	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	
67.500	ml	HALEX GT	4.389	LBAE/GAL	L	
5.624	ml	ACTIVATOR 90 - NIS	90	%	L	
4.943	g	RESOLVE	25	%	DF	
16.851	g	MESOTRIONE	50	%	WG	
303.749	ml	CINCH ATZ	5.5	LB/GAL	L	
0.674	g	ISOXADIFEN-ETHYL	50	%	WG	
150.000	ml	ABUNDIT EXTRA	3	LBAE/GAL	SL	
168.732	ml	N-PAK - AMS	3.4	LBA/GAL	SL	
4.687	ml	CLARITY	4	LBAE/GAL	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.

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 Project ID: 16C04H039 Study Director: Joe Ikley
 Sponsor Contact: AMVAC - Joe Argentine

Pest Type				W Weed AMBTR Giant ragweed	W Weed SETPU yellow foxtail		W Weed AMBTR Giant ragweed	W Weed SETPU yellow foxtail
Pest Code								
Pest Name								
Crop Code	ZEAMX Corn					ZEAMX Corn		
Crop Name	PLOT C			PLOT P	PLOT P	PLOT C		PLOT P
Part Rated	May-12-2016			May-12-2016	May-12-2016	May-23-2016		May-23-2016
Rating Date	PHYGEN			CONTRO	CONTRO	PHYGEN		CONTRO
Rating Type	%			%	%	%		%
Rating Unit	1			1	1	1		1
Number of Subsamples	16 16			16 16	16 16	27 27		27 27
Days After First/Last Applic.	16 DA-A			16 DA-A	16 DA-A	0 DA-B		0 DA-B
Trt-Eval Interval	2 DE-1			2 DE-1	2 DE-1	13 DE-1		13 DE-1
Days After Emergence	P			P	P	P		P
ARM Action Codes	0			0	0	0		0
Number of Decimals								
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
		401	0	0	0	0	0	0
		601	0	0	0	0	0	0
		805	0	0	0	0	0	0
		Mean =	0	0	0	0	0	0
2 HARNESS XTRA 5.6	3.2 pt/a	A 102	0	85	100	0	70	100
IMPACT	0.75 fl oz/a	C 306	0	70	100	0	60	100
AATREX	1 pt/a	C 505	0	90	100	0	80	100
MSO ULTRA	1 % v/v	C 801	0	70	100	0	55	100
N-PAK - AMS	2.5 % v/v	C						
		Mean =	0	79	100	0	66	100
3 HARNESS XTRA 5.6	3.2 pt/a	A 103	0	80	100	0	70	100
IMPACT	0.75 fl oz/a	C 403	0	85	100	0	70	100
LIBERTY 280 SL	29 fl oz/a	C 506	0	90	100	0	80	100
AATREX	1 pt/a	C 701	0	90	100	0	85	100
N-PAK - AMS	2.5 % v/v	C						
		Mean =	0	86	100	0	76	100
4 HARNESS XTRA 5.6	3.2 pt/a	A 104	0	90	100	0	75	100
IMPACT	0.75 fl oz/a	C 302	0	85	100	0	75	100
ROUNDUP POWERMAX	32 fl oz/a	C 605	0	80	100	0	80	100
AATREX	1 pt/a	C 804	0	70	100	0	60	100
MSO ULTRA	0.5 % v/v	C						
N-PAK - AMS	2.5 % v/v	C						
		Mean =	0	81	100	0	73	100
5 HARNESS XTRA 5.6	3.2 pt/a	B 105	0	0	0	0	0	0
IMPACT	0.75 fl oz/a	B 304	0	0	0	0	0	0
MSO ULTRA	1 % v/v	B 501	0	0	0	0	0	0
N-PAK - AMS	2.5 % v/v	B 806	0	0	0	0	0	0
		Mean =	0	0	0	0	0	0
6 HALEX GT	3.6 pt/a	B 106	0	0	0	0	0	0
AATREX	1 pt/a	B 406	0	0	0	0	0	0
ACTIVATOR 90 - NIS	0.25 % v/v	B 604	0	0	0	0	0	0
N-PAK - AMS	2.5 % v/v	B 706	0	0	0	0	0	0
		Mean =	0	0	0	0	0	0
7 INSTIGATE @ 6 OZ/A		201	0	75	100	0	85	100
RESOLVE	0.25 oz ai/a	A 405	0	85	100	0	90	100
MESOTRIONE	2.5 oz ai/a	A 603	0	90	100	0	95	100
CINCH ATZ	2 qt/a	A 704	0	65	100	0	85	100
		Mean =	0	79	100	0	89	100

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 Project ID: 16C04H039 Study Director: Joe Ikley
 Sponsor Contact: AMVAC - Joe Argentine

Pest Type		W Weed	W Weed		W Weed	W Weed		
Pest Code		AMBTR	SETPU		AMBTR	SETPU		
Pest Name		Giant ragweed	yellow foxtail		Giant ragweed	yellow 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	May-12-2016	May-12-2016	May-12-2016	May-23-2016	May-23-2016	May-23-2016		
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	16 16	16 16	16 16	27 27	27 27	27 27		
Trt-Eval Interval	16 DA-A	16 DA-A	16 DA-A	0 DA-B	0 DA-B	0 DA-B		
Days After Emergence	2 DE-1	2 DE-1	2 DE-1	13 DE-1	13 DE-1	13 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
8 CINCH ATZ	2 qt/a	A 202	0	75	100	0	70	100
REALM Q @ 4 OZ/A		301	0	70	100	0	60	100
MESOTRIONE	1.25 oz ai/a	C 504	0	80	100	0	75	100
RESOLVE	0.3 oz ai/a	C 702	0	85	100	0	75	100
ISOXADIFEN-ETHYL	0.15 oz ai/a	C						
ABUNDIT EXTRA	1 qt/a	C						
AATREX	1 qt/a	C						
N-PAK - AMS	2.5 % v/v	C						
Mean =			0	78	100	0	70	100
9 CINCH ATZ	2 qt/a	B 203	0	0	0	0	0	0
REALM Q @ 4 OZ/A		404	0	0	0	0	0	0
MESOTRIONE	1.25 oz ai/a	B 502	0	0	0	0	0	0
RESOLVE	0.3 oz ai/a	B 803	0	0	0	0	0	0
ISOXADIFEN-ETHYL	0.15 oz ai/a	B						
ABUNDIT EXTRA	1 qt/a	B						
CLARITY	4 fl oz/a	B						
Mean =			0	0	0	0	0	0
10 INSTIGATE @ 6 OZ/A		204	0	50	100	0	60	100
RESOLVE	0.25 oz ai/a	A 303	0	60	100	0	75	100
MESOTRIONE	2.5 oz ai/a	A 606	0	85	100	0	80	100
AATREX	1 qt/a	A 802	0	60	100	0	50	100
ABUNDIT EXTRA	1 qt/a	C						
N-PAK - AMS	2.5 % v/v	C						
Mean =			0	64	100	0	66	100
11 CINCH ATZ	2.1 qt/a	A 205	0	65	100	0	70	100
ABUNDIT EXTRA	1 qt/a	C 402	0	60	100	0	50	100
N-PAK - AMS	2.5 % v/v	C 602	0	80	100	0	70	100
		705	0	50	100	0	50	100
Mean =			0	64	100	0	60	100
12 Untreated Check		206	0	0	0	0	0	0
		305	0	0	0	0	0	0
		503	0	0	0	0	0	0
		703	0	0	0	0	0	0
Mean =			0	0	0	0	0	0

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Pest Type			W Weed	W Weed		W Weed	W Weed	
Pest Code			AMBTR	SETPU		AMBTR	SETPU	
Pest Name			Giant ragweed	yellow foxtail		Giant ragweed	yellow 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	May-30-2016		May-30-2016	May-30-2016	Jun-6-2016	Jun-6-2016	Jun-6-2016	
Rating Type	PHYGEN		CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	
Rating Unit	%		%	%	%	%	%	
Number of Subsamples	1		1	1	1	1	1	
Days After First/Last Applic.	34 7		34 7	34 7	41 7	41 7	41 7	
Trt-Eval Interval	7 DA-B		7 DA-B	7 DA-B	14 DA-B	14 DA-B	14 DA-B	
Days After Emergence	20 DE-1		20 DE-1	20 DE-1	27 DE-1	27 DE-1	27 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
		401	0	0	0	0	0	0
		601	0	0	0	0	0	0
		805	0	0	0	0	0	0
		Mean =	0	0	0	0	0	0
2 HARNESS XTRA 5.6	3.2 pt/a	A 102	0	60	100	0	95	100
IMPACT	0.75 fl oz/a	C 306	0	50	100	0	95	100
AATREX	1 pt/a	C 505	0	65	100	0	95	100
MSO ULTRA	1 % v/v	C 801	0	50	100	0	97	100
N-PAK - AMS	2.5 % v/v	C						
		Mean =	0	56	100	0	96	100
3 HARNESS XTRA 5.6	3.2 pt/a	A 103	0	60	100	0	97	100
IMPACT	0.75 fl oz/a	C 403	0	60	100	0	97	100
LIBERTY 280 SL	29 fl oz/a	C 506	0	65	100	0	100	100
AATREX	1 pt/a	C 701	0	80	100	0	100	100
N-PAK - AMS	2.5 % v/v	C						
		Mean =	0	66	100	0	99	100
4 HARNESS XTRA 5.6	3.2 pt/a	A 104	0	75	100	0	100	100
IMPACT	0.75 fl oz/a	C 302	0	60	100	0	100	100
ROUNDUP POWERMAX	32 fl oz/a	C 605	0	60	100	0	95	100
AATREX	1 pt/a	C 804	0	30	100	0	97	100
MSO ULTRA	0.5 % v/v	C						
N-PAK - AMS	2.5 % v/v	C						
		Mean =	0	56	100	0	98	100
5 HARNESS XTRA 5.6	3.2 pt/a	B 105	5	95	100	0	100	100
IMPACT	0.75 fl oz/a	B 304	10	90	100	0	99	95
MSO ULTRA	1 % v/v	B 501	10	85	90	0	97	70
N-PAK - AMS	2.5 % v/v	B 806	10	95	100	0	95	90
		Mean =	9	91	98	0	98	89
6 HALEX GT	3.6 pt/a	B 106	0	85	90	0	100	95
AATREX	1 pt/a	B 406	5	85	100	0	95	100
ACTIVATOR 90 - NIS	0.25 % v/v	B 604	0	85	100	0	95	95
N-PAK - AMS	2.5 % v/v	B 706	0	80	100	0	95	95
		Mean =	1	84	98	0	96	96
7 INSTIGATE @ 6 OZ/A		201	0	95	100	0	90	90
RESOLVE	0.25 oz ai/a	A 405	0	95	100	0	85	100
MESOTRIONE	2.5 oz ai/a	A 603	0	95	100	0	90	100
CINCH ATZ	2 qt/a	A 704	0	85	100	0	65	95
		Mean =	0	93	100	0	83	96

Purdue Weed Science

Corn Showcase Treatments

Trial ID: 16S-TPAC-CORN-22 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-22 Investigator: Dr. Bill Johnson
 Project ID: 16C04H039 Study Director: Joe Ikley
 Sponsor Contact: AMVAC - Joe Argentine

Pest Type		W Weed	W Weed		W Weed	W Weed		
Pest Code		AMBTR	SETPU		AMBTR	SETPU		
Pest Name		Giant ragweed	yellow foxtail		Giant ragweed	yellow 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	May-30-2016	May-30-2016	May-30-2016	Jun-6-2016	Jun-6-2016	Jun-6-2016		
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	34 7	34 7	34 7	41 7	41 7	41 7		
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	14 DA-B	14 DA-B	14 DA-B		
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	27 DE-1	27 DE-1	27 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
8 CINCH ATZ	2 qt/a	A 202	0	60	100	0	100	100
REALM Q @ 4 OZ/A		301	0	50	100	0	95	100
MESOTRIONE	1.25 oz ai/a	C 504	0	60	100	0	95	100
RESOLVE	0.3 oz ai/a	C 702	0	70	100	0	85	100
ISOXADIFEN-ETHYL	0.15 oz ai/a	C						
ABUNDIT EXTRA	1 qt/a	C						
AATREX	1 qt/a	C						
N-PAK - AMS	2.5 % v/v	C						
		Mean =	0	60	100	0	94	100
9 CINCH ATZ	2 qt/a	B 203	5	85	100	0	97	95
REALM Q @ 4 OZ/A		404	5	90	95	0	97	97
MESOTRIONE	1.25 oz ai/a	B 502	0	85	80	0	95	85
RESOLVE	0.3 oz ai/a	B 803	5	90	100	0	95	95
ISOXADIFEN-ETHYL	0.15 oz ai/a	B						
ABUNDIT EXTRA	1 qt/a	B						
CLARITY	4 fl oz/a	B						
		Mean =	4	88	94	0	96	93
10 INSTIGATE @ 6 OZ/A		204	0	70	90	0	80	95
RESOLVE	0.25 oz ai/a	A 303	0	85	95	0	90	100
MESOTRIONE	2.5 oz ai/a	A 606	0	80	75	0	100	95
AATREX	1 qt/a	A 802	0	75	95	0	90	95
ABUNDIT EXTRA	1 qt/a	C						
N-PAK - AMS	2.5 % v/v	C						
		Mean =	0	78	89	0	90	96
11 CINCH ATZ	2.1 qt/a	A 205	0	60	100	0	70	100
ABUNDIT EXTRA	1 qt/a	C 402	0	40	100	0	70	100
N-PAK - AMS	2.5 % v/v	C 602	0	70	100	0	70	100
		705	0	40	100	0	70	100
		Mean =	0	53	100	0	70	100
12 Untreated Check		206	0	0	0	0	0	0
		305	0	0	0	0	0	0
		503	0	0	0	0	0	0
		703	0	0	0	0	0	0
		Mean =	0	0	0	0	0	0

Purdue Weed Science

Corn Showcase Treatments

Trial ID: 16S-TPAC-CORN-22 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-22 Investigator: Dr. Bill Johnson
 Project ID: 16C04H039 Study Director: Joe Ikley
 Sponsor Contact: AMVAC - Joe Argentine

Pest Type			W Weed AMBTR Giant ragweed	W Weed SETPU yellow foxtail	W Weed AMBTR Giant ragweed	W Weed AMBTR Giant ragweed		
Pest Code								
Pest Name								
Crop Code	ZEAMX							ZEAMX
Crop Name	Corn							Corn
Part Rated	PLOT C		PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT C
Rating Date	Jun-15-2016		Jun-15-2016	Jun-15-2016	Jun-30-2016	Jul-14-2016	Oct-8-2016	
Rating Type	PHYGEN		CONTRO	CONTRO	CONTRO	CONTRO	YIELD	
Rating Unit	%		%	%	%	%	lb/plot	
Number of Subsamples	1		1	1	1	1	1	1
Days After First/Last Applic.	50 16		50 16	50 16	65 31	79 45	165 131	
Trt-Eval Interval	23 DA-B		23 DA-B	23 DA-B	38 DA-B	52 DA-B	164 DA-A	
Days After Emergence	36 DE-1		36 DE-1	36 DE-1	51 DE-1	65 DE-1	151 DE-1	
ARM Action Codes	P		P	P	P	P	P	
Number of Decimals	0		0	0	0	0	2	
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	0.00
		401	0	0	0	0	0	0.00
		601	0	0	0	0	0	0.00
		805	0	0	0	0	0	0.00
		Mean =	0	0	0	0	0	0.00
2 HARNESS XTRA 5.6	3.2 pt/a	A 102	0	95	100	75	85	47.00
IMPACT	0.75 fl oz/a	C 306	0	90	100	70	70	.
AATREX	1 pt/a	C 505	0	95	100	85	80	37.58
MSO ULTRA	1 % v/v	C 801	0	90	100	70	65	35.21
N-PAK - AMS	2.5 % v/v	C						
		Mean =	0	93	100	75	75	39.93
3 HARNESS XTRA 5.6	3.2 pt/a	A 103	0	90	100	70	70	34.67
IMPACT	0.75 fl oz/a	C 403	0	90	100	75	50	37.15
LIBERTY 280 SL	29 fl oz/a	C 506	0	95	100	75	70	34.78
AATREX	1 pt/a	C 701	0	90	100	65	60	25.79
N-PAK - AMS	2.5 % v/v	C						
		Mean =	0	91	100	71	63	33.10
4 HARNESS XTRA 5.6	3.2 pt/a	A 104	0	95	100	75	70	39.95
IMPACT	0.75 fl oz/a	C 302	0	95	100	80	85	40.32
ROUNDUP POWERMAX	32 fl oz/a	C 605	0	90	100	85	85	25.85
AATREX	1 pt/a	C 804	0	90	100	65	60	27.84
MSO ULTRA	0.5 % v/v	C						
N-PAK - AMS	2.5 % v/v	C						
		Mean =	0	93	100	76	75	33.49
5 HARNESS XTRA 5.6	3.2 pt/a	B 105	0	100	90	95	100	43.34
IMPACT	0.75 fl oz/a	B 304	0	95	90	80	80	37.36
MSO ULTRA	1 % v/v	B 501	0	95	55	95	90	28.59
N-PAK - AMS	2.5 % v/v	B 806	0	90	75	70	70	25.04
		Mean =	0	95	78	85	85	33.58
6 HALEX GT	3.6 pt/a	B 106	0	99	85	95	99	40.59
AATREX	1 pt/a	B 406	0	85	85	70	60	.
ACTIVATOR 90 - NIS	0.25 % v/v	B 604	0	95	85	80	80	32.14
N-PAK - AMS	2.5 % v/v	B 706	0	90	85	65	50	31.82
		Mean =	0	92	85	78	72	34.85
7 INSTIGATE @ 6 OZ/A		201	0	75	80	60	40	20.84
RESOLVE	0.25 oz ai/a	A 405	0	70	100	60	50	28.22
MESOTRIONE	2.5 oz ai/a	A 603	0	90	95	90	85	24.40
CINCH ATZ	2 qt/a	A 704	0	45	95	20	10	.
		Mean =	0	70	93	58	46	24.48

Purdue Weed Science

Corn Showcase Treatments

Trial ID: 16S-TPAC-CORN-22 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-22 Investigator: Dr. Bill Johnson
 Project ID: 16C04H039 Study Director: Joe Ikley
 Sponsor Contact: AMVAC - Joe Argentine

Pest Type		W Weed AMBTR	W Weed SETPU	W Weed AMBTR	W Weed AMBTR	
Pest Code		Giant ragweed	yellow foxtail	Giant ragweed	Giant ragweed	
Pest Name						
Crop Code	ZEAMX					ZEAMX
Crop Name	Corn					Corn
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT P	PLOT C
Rating Date	Jun-15-2016	Jun-15-2016	Jun-15-2016	Jun-30-2016	Jul-14-2016	Oct-8-2016
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	YIELD
Rating Unit	%	%	%	%	%	lb/plot
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	50 16	50 16	50 16	65 31	79 45	165 131
Trt-Eval Interval	23 DA-B	23 DA-B	23 DA-B	38 DA-B	52 DA-B	164 DA-A
Days After Emergence	36 DE-1	36 DE-1	36 DE-1	51 DE-1	65 DE-1	151 DE-1
ARM Action Codes	P	P	P	P	P	
Number of Decimals	0	0	0	0	0	2
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	13	14	15	16
8 CINCH ATZ	2 qt/a	A 202	0	95	100	95
REALM Q @ 4 OZ/A		301	0	97	100	90
MESOTRIONE	1.25 oz ai/a	C 504	0	100	100	95
RESOLVE	0.3 oz ai/a	C 702	0	97	100	90
ISOXADIFEN-ETHYL	0.15 oz ai/a	C				
ABUNDIT EXTRA	1 qt/a	C				
AATREX	1 qt/a	C				
N-PAK - AMS	2.5 % v/v	C				
	Mean =		0	97	100	93
9 CINCH ATZ	2 qt/a	B 203	0	95	90	90
REALM Q @ 4 OZ/A		404	0	95	85	90
MESOTRIONE	1.25 oz ai/a	B 502	0	95	75	95
RESOLVE	0.3 oz ai/a	B 803	0	95	90	80
ISOXADIFEN-ETHYL	0.15 oz ai/a	B				
ABUNDIT EXTRA	1 qt/a	B				
CLARITY	4 fl oz/a	B				
	Mean =		0	95	85	89
10 INSTIGATE @ 6 OZ/A		204	0	80	95	80
RESOLVE	0.25 oz ai/a	A 303	0	95	100	90
MESOTRIONE	2.5 oz ai/a	A 606	0	95	95	95
AATREX	1 qt/a	A 802	0	85	90	75
ABUNDIT EXTRA	1 qt/a	C				
N-PAK - AMS	2.5 % v/v	C				
	Mean =		0	89	95	85
11 CINCH ATZ	2.1 qt/a	A 205	0	85	100	75
ABUNDIT EXTRA	1 qt/a	C 402	0	90	100	70
N-PAK - AMS	2.5 % v/v	C 602	0	90	95	80
		705	0	85	100	60
	Mean =		0	88	99	71
12 Untreated Check		206	0	0	0	0
		305	0	0	0	0
		503	0	0	0	0
		703	0	0	0	0
	Mean =		0	0	0	0

Purdue Weed Science

Corn Showcase Treatments

Trial ID: 16S-TPAC-CORN-22 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-22 Investigator: Dr. Bill Johnson
 Project ID: 16C04H039 Study Director: Joe Ikley
 Sponsor Contact: AMVAC - Joe Argentine

Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	19	20
Pest Type				
Pest Code				
Pest Name				
Crop Code			ZEAMX	ZEAMX
Crop Name			Corn	Corn
Part Rated			PLOT C	PLOT C
Rating Date			Oct-8-2016	Oct-8-2016
Rating Type			MOICON	YIELD
Rating Unit			%	BU
Number of Subsamples			1	1
Days After First/Last Applic.			165 131	165 131
Trt-Eval Interval			164 DA-A	164 DA-A
Days After Emergence			151 DE-1	151 DE-1
ARM Action Codes				TY1
Number of Decimals			1	1
1 Untreated Check				
		101	0.0	0.0
		401	0.0	0.0
		601	0.0	0.0
		805	0.0	0.0
		Mean =	0.0	0.0
2 HARNESXTRA 5.6	3.2 pt/a	A	102	17.9
IMPACT	0.75 fl oz/a	C	306	284.0
AATREX	1 pt/a	C	505	18.8
MSO ULTRA	1 % v/v	C	801	19.1
N-PAK - AMS	2.5 % v/v	C		
		Mean =	18.6	239.6
3 HARNESXTRA 5.6	3.2 pt/a	A	103	18.8
IMPACT	0.75 fl oz/a	C	403	19.1
LIBERTY 280 SL	29 fl oz/a	C	506	18.8
AATREX	1 pt/a	C	701	18.7
N-PAK - AMS	2.5 % v/v	C		
		Mean =	18.8	197.8
4 HARNESXTRA 5.6	3.2 pt/a	A	104	19.1
IMPACT	0.75 fl oz/a	C	302	19.9
ROUNDUP POWERMAX	32 fl oz/a	C	605	19.4
AATREX	1 pt/a	C	804	18.4
MSO ULTRA	0.5 % v/v	C		
N-PAK - AMS	2.5 % v/v	C		
		Mean =	19.2	199.2
5 HARNESXTRA 5.6	3.2 pt/a	B	105	18.5
IMPACT	0.75 fl oz/a	B	304	20.1
MSO ULTRA	1 % v/v	B	501	18.0
N-PAK - AMS	2.5 % v/v	B	806	17.8
		Mean =	18.6	201.0
6 HALEX GT	3.6 pt/a	B	106	18.0
AATREX	1 pt/a	B	406	.
ACTIVATOR 90 - NIS	0.25 % v/v	B	604	19.3
N-PAK - AMS	2.5 % v/v	B	706	18.6
		Mean =	18.6	209.0
7 INSTIGATE @ 6 OZ/A			201	17.0
RESOLVE	0.25 oz ai/a	A	405	18.6
MESOTRIONE	2.5 oz ai/a	A	603	19.0
CINCH ATZ	2 qt/a	A	704	.
		Mean =	18.2	147.4

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Corn Showcase Treatments

Trial ID: 16S-TPAC-CORN-22 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-22 Investigator: Dr. Bill Johnson
 Project ID: 16C04H039 Study Director: Joe Ikley
 Sponsor Contact: AMVAC - Joe Argentine

Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	19	20	
8 CINCH ATZ	2 qt/a	A	202	20.0	219.6
REALM Q @ 4 OZ/A			301	18.7	211.6
MESOTRIONE	1.25 oz ai/a	C	504	19.6	205.0
RESOLVE	0.3 oz ai/a	C	702	19.0	222.2
ISOXADIFEN-ETHYL	0.15 oz ai/a	C			
ABUNDIT EXTRA	1 qt/a	C			
AATREX	1 qt/a	C			
N-PAK - AMS	2.5 % v/v	C			
		Mean =		19.3	214.6
9 CINCH ATZ	2 qt/a	B	203	19.4	231.3
REALM Q @ 4 OZ/A			404	20.0	225.3
MESOTRIONE	1.25 oz ai/a	B	502	18.9	207.7
RESOLVE	0.3 oz ai/a	B	803	18.9	198.2
ISOXADIFEN-ETHYL	0.15 oz ai/a	B			
ABUNDIT EXTRA	1 qt/a	B			
CLARITY	4 fl oz/a	B			
		Mean =		19.3	215.6
10 INSTIGATE @ 6 OZ/A			204	19.9	220.7
RESOLVE	0.25 oz ai/a	A	303	19.9	248.3
MESOTRIONE	2.5 oz ai/a	A	606	19.6	218.0
AATREX	1 qt/a	A	802	19.1	216.3
ABUNDIT EXTRA	1 qt/a	C			
N-PAK - AMS	2.5 % v/v	C			
		Mean =		19.6	225.8
11 CINCH ATZ	2.1 qt/a	A	205	19.0	210.3
ABUNDIT EXTRA	1 qt/a	C	402	19.2	209.1
N-PAK - AMS	2.5 % v/v	C	602	19.6	181.5
			705	17.8	168.8
		Mean =		18.9	192.4
12 Untreated Check			206	0.0	0.0
			305	0.0	0.0
			503	0.0	0.0
			703	0.0	0.0
		Mean =		0.0	0.0

Purdue Weed Science

Corn Showcase Treatments

Trial ID: 16S-TPAC-CORN-22 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-22 Investigator: Dr. Bill Johnson
 Project ID: 16C04H039 Study Director: Joe Ikley
 Sponsor Contact: AMVAC - Joe Argentine

Pest Type
 W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
 AMBTR, Ambrosia trifida, = US
 SETPU, Setaria pumila, = 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*[18]*(100-@MVAVGREP([19]))/84.5

Pest Type	Pest Code	Pest Name	W Weed AMBTR Giant ragweed	W Weed SETPU yellow foxtail	W Weed AMBTR Giant ragweed	W Weed SETPU yellow foxtail				
Crop Code	ZEAMX	Corn			ZEAMX	Corn				
Crop Name	Corn				Corn					
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT C	PLOT P				
Rating Date	May-12-2016	May-12-2016	May-12-2016	May-12-2016	May-23-2016	May-23-2016				
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	16 16	16 16	16 16	16 16	27 27	27 27				
Trt-Eval Interval	16 DA-A	16 DA-A	16 DA-A	16 DA-A	0 DA-B	0 DA-B				
Days After Emergence	2 DE-1	2 DE-1	2 DE-1	2 DE-1	13 DE-1	13 DE-1				
ARM Action Codes	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Rate	Appl Unit	Code	1	2	3	4	5	6
1	Untreated Check				0 -	0 c	0 a	0 -	0 e	0 a
2	HARNESXTRA 5.6	3.2 pt/a	A		0 -	79 a	100	0 -	66 cd	100
	IMPACT	0.75 fl oz/a	C							
	AATREX	1 pt/a	C							
	MSO ULTRA	1 % v/v	C							
	N-PAK - AMS	2.5 % v/v	C							
3	HARNESXTRA 5.6	3.2 pt/a	A		0 -	86 a	100	0 -	76 b	100
	IMPACT	0.75 fl oz/a	C							
	LIBERTY 280 SL	29 fl oz/a	C							
	AATREX	1 pt/a	C							
	N-PAK - AMS	2.5 % v/v	C							
4	HARNESXTRA 5.6	3.2 pt/a	A		0 -	81 a	100	0 -	73 bc	100
	IMPACT	0.75 fl oz/a	C							
	ROUNDUP POWERMAX	32 fl oz/a	C							
	AATREX	1 pt/a	C							
	MSO ULTRA	0.5 % v/v	C							
	N-PAK - AMS	2.5 % v/v	C							
5	HARNESXTRA 5.6	3.2 pt/a	B		0 -	0 c	0 a	0 -	0 e	0 a
	IMPACT	0.75 fl oz/a	B							
	MSO ULTRA	1 % v/v	B							
	N-PAK - AMS	2.5 % v/v	B							
6	HALEX GT	3.6 pt/a	B		0 -	0 c	0 a	0 -	0 e	0 a
	AATREX	1 pt/a	B							
	ACTIVATOR 90 - NIS	0.25 % v/v	B							
	N-PAK - AMS	2.5 % v/v	B							

Purdue Weed Science

Corn Showcase Treatments

Trial ID: 16S-TPAC-CORN-22 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-22 Investigator: Dr. Bill Johnson
 Project ID: 16C04H039 Study Director: Joe Ikley
 Sponsor Contact: AMVAC - Joe Argentine

Pest Type		W Weed AMBTR	W Weed SETPU		W Weed AMBTR	W Weed SETPU		
Pest Code		Giant ragweed	yellow foxtail		Giant ragweed	yellow 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	May-12-2016	May-12-2016	May-12-2016	May-23-2016	May-23-2016	May-23-2016		
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	16 16	16 16	16 16	27 27	27 27	27 27		
Trt-Eval Interval	16 DA-A	16 DA-A	16 DA-A	0 DA-B	0 DA-B	0 DA-B		
Days After Emergence	2 DE-1	2 DE-1	2 DE-1	13 DE-1	13 DE-1	13 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
7 INSTIGATE @ 6 OZ/A RESOLVE MESOTRIONE CINCH ATZ	0.25 oz ai/a A 2.5 oz ai/a A 2 qt/a A	A	0 -	79 a	100	0 -	89 a	100
8 CINCH ATZ REALM Q @ 4 OZ/A MESOTRIONE RESOLVE ISOXADIFEN-ETHYL ABUNDIT EXTRA AATREX N-PAK - AMS	2 qt/a A 1.25 oz ai/a C 0.3 oz ai/a C 0.15 oz ai/a C 1 qt/a C 1 qt/a C 2.5 % v/v C	A	0 -	78 a	100	0 -	70 bc	100
9 CINCH ATZ REALM Q @ 4 OZ/A MESOTRIONE RESOLVE ISOXADIFEN-ETHYL ABUNDIT EXTRA CLARITY	2 qt/a B 1.25 oz ai/a B 0.3 oz ai/a B 0.15 oz ai/a B 1 qt/a B 4 fl oz/a B	B	0 -	0 c	0 a	0 -	0 e	0 a
10 INSTIGATE @ 6 OZ/A RESOLVE MESOTRIONE AATREX ABUNDIT EXTRA N-PAK - AMS	0.25 oz ai/a A 2.5 oz ai/a A 1 qt/a A 1 qt/a C 2.5 % v/v C	A	0 -	64 b	100	0 -	66 cd	100
11 CINCH ATZ ABUNDIT EXTRA N-PAK - AMS	2.1 qt/a A 1 qt/a C 2.5 % v/v C	A	0 -	64 b	100	0 -	60 d	100
12 Untreated Check			0 -	0 c	0 a	0 -	0 e	0 a
LSD P=.05			.	10.4	.	.	9.6	.
Standard Deviation			0.0	7.2	0.0	0.0	6.7	0.0
CV			0.0	16.37	0.0	0.0	16.09	0.0
Bartlett's X2			0.0	4.496	0.0	0.0	3.885	0.0
P(Bartlett's X2)			.	0.61	.	.	0.692	.
Skewness			.	-0.1861	-0.3491	.	-0.1619	-0.3491
Kurtosis			.	-1.8677*	-1.9617*	.	-1.8303*	-1.9617*
Replicate F			0.000	3.268	0.000	0.000	3.461	0.000
Replicate Prob(F)			1.0000	0.0334	1.0000	1.0000	0.0273	1.0000
Treatment F			0.000	119.442	0.000	0.000	124.517	0.000
Treatment Prob(F)			1.0000	0.0001	1.0000	1.0000	0.0001	1.0000

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Corn Showcase Treatments

Trial ID: 16S-TPAC-CORN-22	Location: TPAC	Trial Year: 2016
Protocol ID: 16S-TPAC-CORN-22	Investigator: Dr. Bill Johnson	
Project ID: 16C04H039	Study Director: Joe Ikley	
	Sponsor Contact: AMVAC - Joe Argentine	

Pest Type Pest Code Pest Name		W Weed AMBTR Giant ragweed	W Weed SETPU yellow foxtail		W Weed AMBTR Giant ragweed	W Weed SETPU yellow foxtail		
Crop Code Crop Name Part Rated Rating Date	ZEAMX Corn PLOT C May-30-2016	PLOT P May-30-2016	PLOT P May-30-2016	ZEAMX Corn PLOT C Jun-6-2016	PLOT P Jun-6-2016	PLOT P Jun-6-2016		
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 34 7 7 DA-B 20 DE-1 P 0	CONTRO % 1 34 7 7 DA-B 20 DE-1 P 0	CONTRO % 1 34 7 7 DA-B 20 DE-1 P 0	PHYGEN % 1 41 7 14 DA-B 27 DE-1 P 0	CONTRO % 1 41 7 14 DA-B 27 DE-1 P 0	CONTRO % 1 41 7 14 DA-B 27 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 d	0 -	0 e	0 d
2 HARNESS XTRA 5.6 IMPACT AATREX MSO ULTRA N-PAK - AMS	3.2 pt/a 0.75 fl oz/a 1 pt/a 1 % v/v 2.5 % v/v	A C C C C	0 c	56 de	100 a	0 -	96 ab	100 a
3 HARNESS XTRA 5.6 IMPACT LIBERTY 280 SL AATREX N-PAK - AMS	3.2 pt/a 0.75 fl oz/a 29 fl oz/a 1 pt/a 2.5 % v/v	A C C C C	0 c	66 cd	100 a	0 -	99 a	100 a
4 HARNESS XTRA 5.6 IMPACT ROUNDUP POWERMAX AATREX MSO ULTRA N-PAK - AMS	3.2 pt/a 0.75 fl oz/a 32 fl oz/a 1 pt/a 0.5 % v/v 2.5 % v/v	A C C C C C	0 c	56 de	100 a	0 -	98 a	100 a
5 HARNESS XTRA 5.6 IMPACT MSO ULTRA N-PAK - AMS	3.2 pt/a 0.75 fl oz/a 1 % v/v 2.5 % v/v	B B B B	9 a	91 a	98 ab	0 -	98 a	89 c
6 HALEX GT AATREX ACTIVATOR 90 - NIS N-PAK - AMS	3.6 pt/a 1 pt/a 0.25 % v/v 2.5 % v/v	B B B B	1 c	84 ab	98 ab	0 -	96 ab	96 ab

Purdue Weed Science

Corn Showcase Treatments

Trial ID: 16S-TPAC-CORN-22 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-22 Investigator: Dr. Bill Johnson
 Project ID: 16C04H039 Study Director: Joe Ikley
 Sponsor Contact: AMVAC - Joe Argentine

Pest Type		W Weed AMBTR	W Weed SETPU		W Weed AMBTR	W Weed SETPU		
Pest Code		Giant ragweed	yellow foxtail		Giant ragweed	yellow 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	May-30-2016	May-30-2016	May-30-2016	Jun-6-2016	Jun-6-2016	Jun-6-2016		
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	34 7	34 7	34 7	41 7	41 7	41 7		
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	14 DA-B	14 DA-B	14 DA-B		
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	27 DE-1	27 DE-1	27 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
7 INSTIGATE @ 6 OZ/A RESOLVE MESOTRIONE CINCH ATZ	0.25 oz ai/a A 2.5 oz ai/a A 2 qt/a A	A	0 c	93 a	100 a	0 -	83 c	96 ab
8 CINCH ATZ REALM Q @ 4 OZ/A MESOTRIONE RESOLVE ISOXADIFEN-ETHYL ABUNDIT EXTRA AATREX N-PAK - AMS	2 qt/a A 1.25 oz ai/a C 0.3 oz ai/a C 0.15 oz ai/a C 1 qt/a C 1 qt/a C 2.5 % v/v C	A	0 c	60 de	100 a	0 -	94 ab	100 a
9 CINCH ATZ REALM Q @ 4 OZ/A MESOTRIONE RESOLVE ISOXADIFEN-ETHYL ABUNDIT EXTRA CLARITY	2 qt/a B 1.25 oz ai/a B 0.3 oz ai/a B 0.15 oz ai/a B 1 qt/a B 4 fl oz/a B	B	4 b	88 ab	94 bc	0 -	96 ab	93 bc
10 INSTIGATE @ 6 OZ/A RESOLVE MESOTRIONE AATREX ABUNDIT EXTRA N-PAK - AMS	0.25 oz ai/a A 2.5 oz ai/a A 1 qt/a A 1 qt/a C 2.5 % v/v C	A	0 c	78 bc	89 c	0 -	90 b	96 ab
11 CINCH ATZ ABUNDIT EXTRA N-PAK - AMS	2.1 qt/a A 1 qt/a C 2.5 % v/v C	A	0 c	53 e	100 a	0 -	70 d	100 a
12 Untreated Check			0 c	0 f	0 d	0 -	0 e	0 d
LSD P=.05	1.8		12.5	5.9	.		6.7	6.2
Standard Deviation	1.2		8.7	4.1	0.0		4.6	4.3
CV	107.98		14.43	5.06	0.0		6.07	5.35
Bartlett's X2	0.0		19.031	2.217	0.0		31.017	11.428
P(Bartlett's X2)	.		0.025*	0.529	.		0.001*	0.022*
Skewness	2.3979*		-0.9689*	-1.7789*	.		-1.6195*	-1.777*
Kurtosis	4.791*		-0.2484	1.3142	.		0.9518	1.307
Replicate F	1.247		0.850	2.494	0.000		1.521	1.679
Replicate Prob(F)	0.3083		0.4766	0.0770	1.0000		0.2272	0.1905
Treatment F	18.155		52.701	343.729	0.000		249.058	307.061
Treatment Prob(F)	0.0001		0.0001	0.0001	1.0000		0.0001	0.0001

Purdue Weed Science

Corn Showcase Treatments

Trial ID: 16S-TPAC-CORN-22	Location: TPAC	Trial Year: 2016
Protocol ID: 16S-TPAC-CORN-22	Investigator: Dr. Bill Johnson	
Project ID: 16C04H039	Study Director: Joe Ikley	
	Sponsor Contact: AMVAC - Joe Argentine	

Pest Type Pest Code Pest Name		W Weed AMBTR Giant ragweed	W Weed SETPU yellow foxtail	W Weed AMBTR Giant ragweed	W Weed AMBTR Giant ragweed	
Crop Code Crop Name Part Rated Rating Date	ZEAMX Corn PLOT C Jun-15-2016	PLOT P Jun-15-2016	PLOT P Jun-15-2016	PLOT P Jun-30-2016	PLOT P Jul-14-2016	ZEAMX Corn PLOT C Oct-8-2016
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 50 16 23 DA-B 36 DE-1 P 0	CONTRO % 1 50 16 23 DA-B 36 DE-1 P 0	CONTRO % 1 50 16 23 DA-B 36 DE-1 P 0	CONTRO % 1 65 31 38 DA-B 51 DE-1 P 0	CONTRO % 1 79 45 52 DA-B 65 DE-1 P 0	YIELD lb/plot 1 165 131 164 DA-A 151 DE-1 2
Trt Treatment No. Name	Rate Rate Unit Appl Code	13	14	15	16	17 18
1 Untreated Check		0 -	0 d	0 d	0 f	0 f 0.00 e
2 HARNESS XTRA 5.6 IMPACT AATREX MSO ULTRA N-PAK - AMS	3.2 pt/a A 0.75 fl oz/a C 1 pt/a C 1 % v/v C 2.5 % v/v C	0 -	93 ab	100 a	75 cd	75 bc 39.93 a
3 HARNESS XTRA 5.6 IMPACT LIBERTY 280 SL AATREX N-PAK - AMS	3.2 pt/a A 0.75 fl oz/a C 29 fl oz/a C 1 pt/a C 2.5 % v/v C	0 -	91 ab	100 a	71 d	63 cd 33.10 c
4 HARNESS XTRA 5.6 IMPACT ROUNDUP POWERMAX AATREX MSO ULTRA N-PAK - AMS	3.2 pt/a A 0.75 fl oz/a C 32 fl oz/a C 1 pt/a C 0.5 % v/v C 2.5 % v/v C	0 -	93 ab	100 a	76 cd	75 bc 33.49 bc
5 HARNESS XTRA 5.6 IMPACT MSO ULTRA N-PAK - AMS	3.2 pt/a B 0.75 fl oz/a B 1 % v/v B 2.5 % v/v B	0 -	95 ab	78 c	85 abc	85 ab 33.58 bc
6 HALEX GT AATREX ACTIVATOR 90 - NIS N-PAK - AMS	3.6 pt/a B 1 pt/a B 0.25 % v/v B 2.5 % v/v B	0 -	92 ab	85 bc	78 bcd	72 bcd 34.85 abc

Purdue Weed Science

Corn Showcase Treatments

Trial ID: 16S-TPAC-CORN-22 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-22 Investigator: Dr. Bill Johnson
 Project ID: 16C04H039 Study Director: Joe Ikley
 Sponsor Contact: AMVAC - Joe Argentine

Pest Type		W Weed AMBTR	W Weed SETPU	W Weed AMBTR	W Weed AMBTR			
Pest Code		Giant ragweed	yellow foxtail	Giant ragweed	Giant ragweed			
Pest Name								
Crop Code	ZEAMX					ZEAMX		
Crop Name	Corn					Corn		
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT P	PLOT C		
Rating Date	Jun-15-2016	Jun-15-2016	Jun-15-2016	Jun-30-2016	Jul-14-2016	Oct-8-2016		
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	YIELD		
Rating Unit	%	%	%	%	%	lb/plot		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	50 16	50 16	50 16	65 31	79 45	165 131		
Trt-Eval Interval	23 DA-B	23 DA-B	23 DA-B	38 DA-B	52 DA-B	164 DA-A		
Days After Emergence	36 DE-1	36 DE-1	36 DE-1	51 DE-1	65 DE-1	151 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	2		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	13	14	15	16	17	18
7 INSTIGATE @ 6 OZ/A RESOLVE MESOTRIONE CINCH ATZ	0.25 oz ai/a A 2.5 oz ai/a A 2 qt/a A	A	0 -	70 c	93 ab	58 e	46 e	24.48 d
8 CINCH ATZ REALM Q @ 4 OZ/A MESOTRIONE RESOLVE ISOXADIFEN-ETHYL ABUNDIT EXTRA AATREX N-PAK - AMS	2 qt/a A 1.25 oz ai/a C 0.3 oz ai/a C 0.15 oz ai/a C 1 qt/a C 1 qt/a C 2.5 % v/v C	A	0 -	97 a	100 a	93 a	94 a	36.11 abc
9 CINCH ATZ REALM Q @ 4 OZ/A MESOTRIONE RESOLVE ISOXADIFEN-ETHYL ABUNDIT EXTRA CLARITY	2 qt/a B 1.25 oz ai/a B 0.3 oz ai/a B 0.15 oz ai/a B 1 qt/a B 4 fl oz/a B	B	0 -	95 ab	85 bc	89 ab	85 ab	36.29 abc
10 INSTIGATE @ 6 OZ/A RESOLVE MESOTRIONE AATREX ABUNDIT EXTRA N-PAK - AMS	0.25 oz ai/a A 2.5 oz ai/a A 1 qt/a A 1 qt/a C 2.5 % v/v C	A	0 -	89 ab	95 a	85 abc	84 ab	38.16 ab
11 CINCH ATZ ABUNDIT EXTRA N-PAK - AMS	2.1 qt/a A 1 qt/a C 2.5 % v/v C	A	0 -	88 b	99 a	71 d	59 de	32.24 c
12 Untreated Check			0 -	0 d	0 d	0 f	0 f	0.00 e
LSD P=.05	.		8.6	8.4	12.4	15.8	5.050	
Standard Deviation	0.0		6.0	5.8	8.7	11.0	3.497	
CV	0.0		8.0	7.46	13.31	17.86	13.22	
Bartlett's X2	0.0		28.057	10.617	20.258	16.46	11.733	
P(Bartlett's X2)	.		0.001*	0.031*	0.016*	0.058	0.229	
Skewness	.		-1.6456*	-1.6371*	-1.3005*	-0.9603*	-1.2416*	
Kurtosis	.		0.9595	0.9828	0.2809	-0.363	0.2107	
Replicate F	0.000		2.704	1.539	9.034	8.295	9.199	
Replicate Prob(F)	1.0000		0.0613	0.2227	0.0002	0.0003	0.0002	
Treatment F	0.000		141.738	163.141	53.848	32.990	61.300	
Treatment Prob(F)	1.0000		0.0001	0.0001	0.0001	0.0001	0.0001	

Purdue Weed Science

Corn Showcase Treatments

Trial ID: 16S-TPAC-CORN-22	Location: TPAC	Trial Year: 2016
Protocol ID: 16S-TPAC-CORN-22	Investigator: Dr. Bill Johnson	
Project ID: 16C04H039	Study Director: Joe Ikley	
	Sponsor Contact: AMVAC - Joe Argentine	

Pest Type				
Pest Code				
Pest Name				
Crop Code	ZEAMX	ZEAMX		
Crop Name	Corn	Corn		
Part Rated	PLOT C	PLOT C		
Rating Date	Oct-8-2016	Oct-8-2016		
Rating Type	MOICON	YIELD		
Rating Unit	%	BU		
Number of Subsamples	1	1		
Days After First/Last Applic.	165 131	165 131		
Trt-Eval Interval	164 DA-A	164 DA-A		
Days After Emergence	151 DE-1	151 DE-1		
ARM Action Codes		TY1		
Number of Decimals	1	1		
Trt Treatment No. Name	Rate	Appl Code	19	20
	Rate Unit			
1 Untreated Check			0.0 d	0.0 e
2 HARNESS XTRA 5.6	3.2 pt/a	A	18.6 bc	239.6 a
IMPACT	0.75 fl oz/a	C		
AATREX	1 pt/a	C		
MSO ULTRA	1 % v/v	C		
N-PAK - AMS	2.5 % v/v	C		
3 HARNESS XTRA 5.6	3.2 pt/a	A	18.8 abc	197.8 bc
IMPACT	0.75 fl oz/a	C		
LIBERTY 280 SL	29 fl oz/a	C		
AATREX	1 pt/a	C		
N-PAK - AMS	2.5 % v/v	C		
4 HARNESS XTRA 5.6	3.2 pt/a	A	19.2 ab	199.2 bc
IMPACT	0.75 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
AATREX	1 pt/a	C		
MSO ULTRA	0.5 % v/v	C		
N-PAK - AMS	2.5 % v/v	C		
5 HARNESS XTRA 5.6	3.2 pt/a	B	18.6 bc	201.0 bc
IMPACT	0.75 fl oz/a	B		
MSO ULTRA	1 % v/v	B		
N-PAK - AMS	2.5 % v/v	B		
6 HALEX GT	3.6 pt/a	B	18.6 bc	209.0 abc
AATREX	1 pt/a	B		
ACTIVATOR 90 - NIS	0.25 % v/v	B		
N-PAK - AMS	2.5 % v/v	B		

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Corn Showcase Treatments

Trial ID: 16S-TPAC-CORN-22 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-CORN-22 Investigator: Dr. Bill Johnson
 Project ID: 16C04H039 Study Director: Joe Ikley
 Sponsor Contact: AMVAC - Joe Argentine

Pest Type				
Pest Code				
Pest Name				
Crop Code		ZEAMX	ZEAMX	
Crop Name		Corn	Corn	
Part Rated		PLOT C	PLOT C	
Rating Date		Oct-8-2016	Oct-8-2016	
Rating Type		MOICON	YIELD	
Rating Unit		%	BU	
Number of Subsamples		1	1	
Days After First/Last Applic.		165 131	165 131	
Trt-Eval Interval		164 DA-A	164 DA-A	
Days After Emergence		151 DE-1	151 DE-1	
ARM Action Codes			TY1	
Number of Decimals		1	1	
Trt Treatment No. Name	Rate Unit	Appl Code		
			19	20
7 INSTIGATE @ 6 OZ/A			18.2 c	147.4 d
RESOLVE	0.25 oz ai/a A			
MESOTRIONE	2.5 oz ai/a A			
CINCH ATZ	2 qt/a A			
8 CINCH ATZ	2 qt/a A		19.3 ab	214.6 abc
REALM Q @ 4 OZ/A				
MESOTRIONE	1.25 oz ai/a C			
RESOLVE	0.3 oz ai/a C			
ISOXADIFEN-ETHYL	0.15 oz ai/a C			
ABUNDIT EXTRA	1 qt/a C			
AATREX	1 qt/a C			
N-PAK - AMS	2.5 % v/v C			
9 CINCH ATZ	2 qt/a B		19.3 ab	215.6 abc
REALM Q @ 4 OZ/A				
MESOTRIONE	1.25 oz ai/a B			
RESOLVE	0.3 oz ai/a B			
ISOXADIFEN-ETHYL	0.15 oz ai/a B			
ABUNDIT EXTRA	1 qt/a B			
CLARITY	4 fl oz/a B			
10 INSTIGATE @ 6 OZ/A			19.6 a	225.8 ab
RESOLVE	0.25 oz ai/a A			
MESOTRIONE	2.5 oz ai/a A			
AATREX	1 qt/a A			
ABUNDIT EXTRA	1 qt/a C			
N-PAK - AMS	2.5 % v/v C			
11 CINCH ATZ	2.1 qt/a A		18.9 abc	192.4 c
ABUNDIT EXTRA	1 qt/a C			
N-PAK - AMS	2.5 % v/v C			
12 Untreated Check			0.0 d	0.0 e
LSD P=.05			0.80	30.04
Standard Deviation			0.56	20.80
CV			3.8	13.18
Bartlett's X2			8.812	12.379
P(Bartlett's X2)			0.455	0.193
Skewness			-1.7137*	-1.2469*
Kurtosis			1.0339	0.2405
Replicate F			3.229	8.946
Replicate Prob(F)			0.0362	0.0002
Treatment F			698.121	61.520
Treatment Prob(F)			0.0001	0.0001

Purdue Weed Science

Corn Showcase Treatments

Trial ID: 16S-TPAC-CORN-22	Location: TPAC	Trial Year: 2016
Protocol ID: 16S-TPAC-CORN-22	Investigator: Dr. Bill Johnson	
Project ID: 16C04H039	Study Director: Joe Ikley	
	Sponsor Contact: AMVAC - Joe Argentine	

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, = US

SETPU, Setaria pumila, = 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 = $6.222857 * [18] * (100 - @MVAVGREP([19])) / 84.5$