

Purdue Weed Science

Armezon PRO Field Performance-Rate Evaluation

Trial ID: 15S-THP-CTC-07 Location: TPAC Trial Year: 2015
 Protocol ID: 15S-THP-CTC-07 Investigator: Dr. Bill Johnson
 Project ID: DEV H 2015 US C43 Study Director: Joe Ikley
 Sponsor Contact: BASF - Gery Welker

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
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Investigator: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
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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
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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 RIB **BBCH Scale:** BCOR
Description: RR/LL
Planting Date: 5/2/2015
Planting Method: SEEDED seeded
Planting Equipment: FPP Finger Pickup Planter
Emergence Date: 5/9/2015
Planting Rate, Unit: 32000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Spacing Within Row, Unit: 6 IN
Planting Density, Unit: 32000 S/A
Soil Temperature, Unit: 55 F
Soil Moisture: SLIWET slightly wet, moist
Seed Bed: MEDIUM medium **% Standard Moisture:** 15.5
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 25 FT

Pest Description

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

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT2 **Treatments:** 12
Replications: 4
Untreated Arrangement: INCLUDED single control randomized in each block
Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Field Prep./Maintenance:

171 pounds of UAN (28-0-0) applied and disked in on May 1st

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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
Application Date:	5/22/2015
Appl. Start Time:	8:15
Appl. Stop Time:	8:45
Application Method:	SPRAY
Application Timing:	EPOST
Application Placement:	BROADC
Applied By:	DS
Air Temperature, Unit:	54 F
% Relative Humidity:	76
Wind Velocity, Unit:	2.5 MPH
Wind Direction:	SW
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	57 F
Soil Moisture:	SLIDRY
% Cloud Cover:	10

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMX BCOR
Stage Scale Used:	BBCH
Stage Majority, Percent:	33
Height, Unit:	5 IN
Height Minimum, Maximum:	4 7

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Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	AMBTR W
Stage Majority, Percent:	33
Stage Minimum, Percent:	32
Stage Maximum, Percent:	34
Height, Unit:	2 IN
Height Minimum, Maximum:	1 3
Density, Unit:	25 YD2
Pest 2 Code, Type, Scale:	CHEAL W
Stage Majority, Percent:	31
Stage Minimum, Percent:	30
Stage Maximum, Percent:	32
Height, Unit:	0.75 IN
Height Minimum, Maximum:	0.5 1
Density, Unit:	150 YD2
Pest 3 Code, Type, Scale:	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:	150 YD2
Pest 4 Code, Type, Scale:	ABUTH W
Stage Majority, Percent:	11
Stage Minimum, Percent:	11
Stage Maximum, Percent:	12
Height, Unit:	0.75 IN
Height Minimum, Maximum:	0.5 1
Density, Unit:	20 YD2

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

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Growth Stage	Appl Code	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check										101	303	505	805
2	BAS677	642.5	GA/L	EC	16	fl oz/a		A	15.0	ml/mx	102	404	506	802
	MSO ULTRA	100	%	L	1	% v/v		A	18.0	ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5	% v/v	V2-V4 CO	A	45.0	ml/mx				
3	BAS677	642.5	GA/L	EC	20	fl oz/a		A	18.75	ml/mx	103	403	601	704
	MSO ULTRA	100	%	L	1	% v/v		A	18.0	ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5	% v/v	V2-V4 CO	A	45.0	ml/mx				
4	CAPRENO	3.45	LB/GAL	L	3	fl oz/a		A	2.812	ml/mx	104	401	503	701
	PRIME OIL - COC	99.47	%	L	1	% v/v		A	18.0	ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5	% v/v	V2-V4 CO	A	45.0	ml/mx				
5	BAS677	642.5	GA/L	EC	16	fl oz/a		A	15.0	ml/mx	105	306	501	705
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	16	fl oz/a		A	15.0	ml/mx				
	PRIME OIL - COC	99.47	%	L	1	% v/v		A	18.0	ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5	% v/v	V2-V4 CO	A	45.0	ml/mx				

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

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Growth Stage	Appl Code	Amt Product to Measure	Rep			
									1	2	3	4
6	BAS677	642.5	GAL	EC	20 fl oz/a		A	18.75 ml/mx	106	301	502	806
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	16 fl oz/a		A	15.0 ml/mx				
	PRIME OIL - COC	99.47	%	L	1 % v/v		A	18.0 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	V2-V4	CO A	45.0 ml/mx				
7	HALEX GT	4.389	LBAE/GAL	L	3.6 pt/a		A	54.0 ml/mx	201	302	605	702
	ACTIVATOR 90 - NIS	90	%	L	0.25 % v/v		A	4.5 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	V2-V4	CO A	45.0 ml/mx				
8	HALEX GT	4.389	LBAE/GAL	L	4 pt/a		A	60.0 ml/mx	202	305	602	706
	ACTIVATOR 90 - NIS	90	%	L	0.25 % v/v		A	4.5 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	V2-V4	CO A	45.0 ml/mx				
9	BAS677	642.5	GAL	EC	16 fl oz/a		A	15.0 ml/mx	203	406	603	801
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	16 fl oz/a		A	15.0 ml/mx				
	AATREX	4	LB/GAL	L	1 pt/a		A	15.0 ml/mx				
	PRIME OIL - COC	99.47	%	L	1 % v/v		A	18.0 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	V2-V4	CO A	45.0 ml/mx				
10	BAS677	642.5	GAL	EC	20 fl oz/a		A	18.75 ml/mx	204	402	606	804
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	16 fl oz/a		A	15.0 ml/mx				
	AATREX	4	LB/GAL	L	1 pt/a		A	15.0 ml/mx				
	PRIME OIL - COC	99.47	%	L	1 % v/v		A	18.0 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	V2-V4	CO A	45.0 ml/mx				
11	HALEX GT	4.389	LBAE/GAL	L	3.6 pt/a		A	54.0 ml/mx	205	304	604	803
	AATREX	4	LB/GAL	L	1 pt/a		A	15.0 ml/mx				
	ACTIVATOR 90 - NIS	90	%	L	0.25 % v/v		A	4.5 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	V2-V4	CO A	45.0 ml/mx				
12	HALEX GT	4.389	LBAE/GAL	L	4 pt/a		A	60.0 ml/mx	206	405	504	703
	AATREX	4	LB/GAL	L	1 pt/a		A	15.0 ml/mx				
	ACTIVATOR 90 - NIS	90	%	L	0.25 % v/v		A	4.5 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	V2-V4	CO A	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 Type	Lot Code
126.562	ml	BAS677	642.5	EC	
44.995	ml	MSO ULTRA	100	L	
618.683	ml	N-PAK - AMS	3.4	SL	
3.516	ml	CAPRENO	3.45	L	
112.488	ml	PRIME OIL - COC	99.47	L	
75.000	ml	ROUNDUP POWERMAX	4.5	SL	
285.000	ml	HALEX GT	4.389	L	
22.498	ml	ACTIVATOR 90 - NIS	90	L	
75.000	ml	AATREX	4	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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Armezon PRO Field Performance-Rate Evaluation

Trial ID: 15S-THP-CTC-07 Location: TPAC Trial Year: 2015
 Protocol ID: 15S-THP-CTC-07 Investigator: Dr. Bill Johnson
 Project ID: DEV H 2015 US C43 Study Director: Joe Ikley
 Sponsor Contact: BASF - Gery Welker

Pest Type		W Weed SETFA	W Weed CHEAL	W Weed AMBTR	W Weed SETFA			
Pest Code		Giant foxtail	Common lambsqu>	Giant ragweed	Giant foxtail			
Pest Name								
Crop Code	ZEAMX				ZEAMX			
Crop Name	Corn				Corn			
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT C			
Rating Date	5/29/2015	5/29/2015	5/29/2015	5/29/2015	6/9/2015			
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	7 7	7 7	7 7	7 7	18 18			
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	18 DA-A			
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	20 DE-1	31 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
		303	0	0	0	0	0	0
		505	0	0	.	0	0	0
		805	0	0	.	0	0	0
	Mean =		0	0	0	0	0	0
2 BAS677	16 fl oz/a A	102	0	85	100	50	0	95
MSO ULTRA	1 % v/v A	404	3	85	100	65	0	95
N-PAK - AMS	2.5 % v/v A	506	10	100	.	70	0	100
		802	0	70	.	70	0	90
	Mean =		3	85	100	64	0	95
3 BAS677	20 fl oz/a A	103	0	90	100	60	0	95
MSO ULTRA	1 % v/v A	403	2	95	100	80	0	100
N-PAK - AMS	2.5 % v/v A	601	3	70	.	75	0	90
		704	5	100	.	90	0	90
	Mean =		3	89	100	76	0	94
4 CAPRENO	3 fl oz/a A	104	0	25	100	70	0	80
PRIME OIL - COC	1 % v/v A	401	0	30	95	35	0	80
N-PAK - AMS	2.5 % v/v A	503	0	20	.	50	0	70
		701	0	20	.	50	0	80
	Mean =		0	24	98	51	0	78
5 BAS677	16 fl oz/a A	105	3	100	100	85	0	100
ROUNDUP POWERMAX	16 fl oz/a A	306	3	100	100	70	0	100
PRIME OIL - COC	1 % v/v A	501	0	100	.	60	0	95
N-PAK - AMS	2.5 % v/v A	705	3	90	.	80	0	90
	Mean =		2	98	100	74	0	96
6 BAS677	20 fl oz/a A	106	5	100	100	90	5	100
ROUNDUP POWERMAX	16 fl oz/a A	301	3	95	100	85	5	100
PRIME OIL - COC	1 % v/v A	502	3	100	.	95	0	100
N-PAK - AMS	2.5 % v/v A	806	3	100	.	85	0	100
	Mean =		4	99	100	89	3	100
7 HALEX GT	3.6 pt/a A	201	0	99	99	70	0	100
ACTIVATOR 90 - NIS	0.25 % v/v A	302	0	100	100	80	0	100
N-PAK - AMS	2.5 % v/v A	605	0	99	.	90	0	100
		702	0	90	.	75	0	95
	Mean =		0	97	100	79	0	99
8 HALEX GT	4 pt/a A	202	0	100	100	70	0	100
ACTIVATOR 90 - NIS	0.25 % v/v A	305	0	97	100	95	0	100
N-PAK - AMS	2.5 % v/v A	602	0	100	.	95	0	100
		706	0	100	.	85	0	100
	Mean =		0	99	100	86	0	100

Purdue Weed Science

Pest Type		W Weed	W Weed	W Weed		W Weed
Pest Code		SETFA	CHEAL	AMBTR		SETFA
Pest Name		Giant foxtail	Common lambsqu>	Giant ragweed		Giant foxtail
Crop Code	ZEAMX				ZEAMX	
Crop Name	Corn				Corn	
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT C	PLOT P
Rating Date	5/29/2015	5/29/2015	5/29/2015	5/29/2015	6/9/2015	6/9/2015
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	7 7	7 7	7 7	7 7	18 18	18 18
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	18 DA-A	18 DA-A
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	20 DE-1	31 DE-1	31 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
9 BAS677	16 fl oz/a	A 203	5	100	100	100
ROUNDUP POWERMAX	16 fl oz/a	A 406	10	99	100	97
AATREX	1 pt/a	A 603	5	100	.	99
PRIME OIL - COC	1 % v/v	A 801	5	100	.	100
N-PAK - AMS	2.5 % v/v	A				0
	Mean =		6	100	100	99
10 BAS677	20 fl oz/a	A 204	5	100	100	100
ROUNDUP POWERMAX	16 fl oz/a	A 402	10	95	100	97
AATREX	1 pt/a	A 606	10	100	.	90
PRIME OIL - COC	1 % v/v	A 804	7	100	.	100
N-PAK - AMS	2.5 % v/v	A				0
	Mean =		8	99	100	97
11 HALEX GT	3.6 pt/a	A 205	0	100	100	97
AATREX	1 pt/a	A 304	2	100	100	95
ACTIVATOR 90 - NIS	0.25 % v/v	A 604	0	100	.	95
N-PAK - AMS	2.5 % v/v	A 803	0	100	.	99
	Mean =		1	100	100	97
12 HALEX GT	4 pt/a	A 206	0	99	100	95
AATREX	1 pt/a	A 405	0	100	100	95
ACTIVATOR 90 - NIS	0.25 % v/v	A 504	0	99	.	99
N-PAK - AMS	2.5 % v/v	A 703	0	100	.	99
	Mean =		0	100	100	97

Purdue Weed Science

Pest Type	W Weed	W Weed		W Weed	W Weed		
Pest Code	CHEAL	AMBTR		SETFA	CHEAL		
Pest Name	Common lambsqu	Giant ragweed		Giant foxtail	Common lambsqu		
Crop Code			ZEAMX				
Crop Name			Corn				
Part Rated	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P		
Rating Date	6/9/2015	6/9/2015	7/1/2015	7/1/2015	7/1/2015		
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1		
Days After First/Last Applic.	18 18	18 18	40 40	40 40	40 40		
Trt-Eval Interval	18 DA-A	18 DA-A	40 DA-A	40 DA-A	40 DA-A		
Days After Emergence	31 DE-1	31 DE-1	53 DE-1	53 DE-1	53 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	7	8	9	10	11
1 Untreated Check		101	0	0	0	0	0
		303	0	0	0	0	0
		505	.	0	0	0	.
		805	.	0	0	0	.
		Mean =	0	0	0	0	0
2 BAS677	16 fl oz/a A	102	95	95	0	50	85
MSO ULTRA	1 % v/v A	404	100	90	0	85	100
N-PAK - AMS	2.5 % v/v A	506	.	90	0	100	.
		802	.	90	0	80	.
		Mean =	98	91	0	79	93
3 BAS677	20 fl oz/a A	103	95	95	0	90	95
MSO ULTRA	1 % v/v A	403	100	80	0	90	100
N-PAK - AMS	2.5 % v/v A	601	.	90	0	85	.
		704	.	90	0	90	.
		Mean =	98	89	0	89	98
4 CAPRENO	3 fl oz/a A	104	100	95	0	50	95
PRIME OIL - COC	1 % v/v A	401	100	90	0	85	100
N-PAK - AMS	2.5 % v/v A	503	.	95	0	75	.
		701	.	90	0	75	.
		Mean =	100	93	0	71	98
5 BAS677	16 fl oz/a A	105	100	90	0	95	100
ROUNDUP POWERMAX	16 fl oz/a A	306	100	90	0	100	100
PRIME OIL - COC	1 % v/v A	501	.	90	0	100	.
N-PAK - AMS	2.5 % v/v A	705	.	80	0	98	.
		Mean =	100	88	0	98	100
6 BAS677	20 fl oz/a A	106	100	90	0	95	100
ROUNDUP POWERMAX	16 fl oz/a A	301	100	95	0	98	100
PRIME OIL - COC	1 % v/v A	502	.	80	0	98	.
N-PAK - AMS	2.5 % v/v A	806	.	90	0	98	.
		Mean =	100	89	0	97	100
7 HALEX GT	3.6 pt/a A	201	100	95	0	100	100
ACTIVATOR 90 - NIS	0.25 % v/v A	302	100	90	0	98	100
N-PAK - AMS	2.5 % v/v A	605	.	95	0	98	.
		702	.	95	0	85	.
		Mean =	100	94	0	95	100
8 HALEX GT	4 pt/a A	202	100	95	0	98	100
ACTIVATOR 90 - NIS	0.25 % v/v A	305	100	90	0	95	100
N-PAK - AMS	2.5 % v/v A	602	.	90	0	98	.
		706	.	90	0	100	.
		Mean =	100	91	0	98	100

Purdue Weed Science

	W Weed CHEAL Common lambsqu>	W Weed AMBTR Giant ragweed	ZEAMX Corn PLOT C	W Weed SETFA Giant foxtail	W Weed CHEAL Common lambsqu>
Pest Type					
Pest Code					
Pest Name					
Crop Code					
Crop Name					
Part Rated	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P
Rating Date	6/9/2015	6/9/2015	7/1/2015	7/1/2015	7/1/2015
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	18 18	18 18	40 40	40 40	40 40
Trt-Eval Interval	18 DA-A	18 DA-A	40 DA-A	40 DA-A	40 DA-A
Days After Emergence	31 DE-1	31 DE-1	53 DE-1	53 DE-1	53 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0
Trt Treatment					
No. Name	7	8	9	10	11
Rate					
Appl					
Code Plot					
9 BAS677	100	90	0	100	100
ROUNDUP POWERMAX	100	95	0	95	100
AATREX	.	95	0	95	.
PRIME OIL - COC	.	95	0	95	.
N-PAK - AMS	.	.	.	.	.
Mean =	100	94	0	96	100
10 BAS677	100	95	0	100	100
ROUNDUP POWERMAX	100	90	0	90	100
AATREX	.	90	0	100	.
PRIME OIL - COC	.	90	0	98	.
N-PAK - AMS	.	.	.	.	.
Mean =	100	91	0	97	100
11 HALEX GT	100	100	0	100	100
AATREX	100	95	0	95	100
ACTIVATOR 90 - NIS	.	95	0	98	.
N-PAK - AMS	.	90	0	98	.
Mean =	100	95	0	98	100
12 HALEX GT	100	95	0	100	100
AATREX	100	95	0	98	100
ACTIVATOR 90 - NIS	.	95	0	98	.
N-PAK - AMS	.	95	0	95	.
Mean =	100	95	0	98	100

Purdue Weed Science

Pest Type				W Weed			
Pest Code				AMBTR			
Pest Name				Giant ragweed			
Crop Code					ZEAMX	ZEAMX	ZEAMX
Crop Name					Corn	Corn	Corn
Part Rated				PLOT P	PLOT C	PLOT C	PLOT C
Rating Date				7/1/2015	9/24/2015	9/24/2015	9/24/2015
Rating Type				CONTRO	YIELD	MOICON	YIELD
Rating Unit				%	lb/plot	%	BU
Number of Subsamples				1	1	1	1
Days After First/Last Applic.				40 40	125 125	125 125	125 125
Trt-Eval Interval				40 DA-A	125 DA-A	125 DA-A	125 DA-A
Days After Emergence				53 DE-1	138 DE-1	138 DE-1	138 DE-1
ARM Action Codes				P			TY2
Number of Decimals				0	2	2	1
Trt	Treatment	Rate	Appl				
No.	Name	Rate Unit	Code Plot	12	13	14	15
1	Untreated Check		101	0	6.17	19.24	36.7
			303	0	10.04	20.34	58.9
			505	0	10.69	20.55	62.5
			805	0	10.96	18.84	65.5
			Mean =	0	9.47	19.74	55.9
2	BAS677	16 fl oz/a A	102	60	35.36	16.44	217.6
	MSO ULTRA	1 % v/v A	404	80	39.28	19.54	232.8
	N-PAK - AMS	2.5 % v/v A	506	80	29.72	20.61	173.7
			802	85	41.54	19.21	247.2
			Mean =	76	36.48	18.95	217.8
3	BAS677	20 fl oz/a A	103	85	38.32	16.53	235.5
	MSO ULTRA	1 % v/v A	403	80	33.59	19.77	198.5
	N-PAK - AMS	2.5 % v/v A	601	85	24.56	20.72	143.4
			704	90	44.12	19.39	261.9
			Mean =	85	35.15	19.10	209.8
4	CAPRENO	3 fl oz/a A	104	90	41.49	17.20	253.0
	PRIME OIL - COC	1 % v/v A	401	90	34.72	19.64	205.5
	N-PAK - AMS	2.5 % v/v A	503	85	33.00	19.70	195.1
			701	90	38.32	19.78	226.4
			Mean =	89	36.88	19.08	220.0
5	BAS677	16 fl oz/a A	105	85	41.70	16.96	255.0
	ROUNDUP POWERMAX	16 fl oz/a A	306	85	38.26	19.93	225.6
	PRIME OIL - COC	1 % v/v A	501	80	32.19	19.09	191.8
	N-PAK - AMS	2.5 % v/v A	705	85	44.66	19.69	264.1
			Mean =	84	39.20	18.92	234.1
6	BAS677	20 fl oz/a A	106	90	35.63	17.54	216.4
	ROUNDUP POWERMAX	16 fl oz/a A	301	95	40.68	19.97	239.8
	PRIME OIL - COC	1 % v/v A	502	90	35.36	19.57	209.4
	N-PAK - AMS	2.5 % v/v A	806	85	40.04	19.86	236.3
			Mean =	90	37.93	19.24	225.5
7	HALEX GT	3.6 pt/a A	201	95	41.54	17.81	251.4
	ACTIVATOR 90 - NIS	0.25 % v/v A	302	95	42.67	20.21	250.7
	N-PAK - AMS	2.5 % v/v A	605	95	26.60	21.31	154.1
			702	95	42.56	19.07	253.7
			Mean =	95	38.34	19.60	227.5
8	HALEX GT	4 pt/a A	202	100	40.79	19.22	242.6
	ACTIVATOR 90 - NIS	0.25 % v/v A	305	98	42.99	20.20	252.6
	N-PAK - AMS	2.5 % v/v A	602	98	25.63	20.40	150.2
			706	95	43.80	20.15	257.6
			Mean =	98	38.30	19.99	225.8

Purdue Weed Science

Pest Type	W Weed	ZEAMX	ZEAMX	ZEAMX
Pest Code	AMBTR			
Pest Name	Giant ragweed			
Crop Code		Corn	Corn	Corn
Crop Name		Corn	Corn	Corn
Part Rated	PLOT P	PLOT C	PLOT C	PLOT C
Rating Date	7/1/2015	9/24/2015	9/24/2015	9/24/2015
Rating Type	CONTRO	YIELD	MOICON	YIELD
Rating Unit	%	lb/plot	%	BU
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	40 40	125 125	125 125	125 125
Trt-Eval Interval	40 DA-A	125 DA-A	125 DA-A	125 DA-A
Days After Emergence	53 DE-1	138 DE-1	138 DE-1	138 DE-1
ARM Action Codes	P			TY2
Number of Decimals	0	2	2	1
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	12	13
9 BAS677	16 fl oz/a	A 203	85	39.93
ROUNDUP POWERMAX	16 fl oz/a	A 406	85	33.53
AATREX	1 pt/a	A 603	90	24.93
PRIME OIL - COC	1 % v/v	A 801	95	39.45
N-PAK - AMS	2.5 % v/v	A		
	Mean =		89	34.46
10 BAS677	20 fl oz/a	A 204	90	43.10
ROUNDUP POWERMAX	16 fl oz/a	A 402	90	30.47
AATREX	1 pt/a	A 606	80	21.49
PRIME OIL - COC	1 % v/v	A 804	85	42.40
N-PAK - AMS	2.5 % v/v	A		
	Mean =		86	34.37
11 HALEX GT	3.6 pt/a	A 205	100	44.66
AATREX	1 pt/a	A 304	95	41.00
ACTIVATOR 90 - NIS	0.25 % v/v	A 604	100	31.17
N-PAK - AMS	2.5 % v/v	A 803	98	44.23
	Mean =		98	40.26
12 HALEX GT	4 pt/a	A 206	98	44.55
AATREX	1 pt/a	A 405	95	34.02
ACTIVATOR 90 - NIS	0.25 % v/v	A 504	98	41.27
N-PAK - AMS	2.5 % v/v	A 703	100	44.07
	Mean =		98	40.98

Purdue Weed Science

Armezon PRO Field Performance-Rate Evaluation

Trial ID: 15S-THP-CTC-07 Location: TPAC Trial Year: 2015
 Protocol ID: 15S-THP-CTC-07 Investigator: Dr. Bill Johnson
 Project ID: DEV H 2015 US C43 Study Director: Joe Ikley
 Sponsor Contact: BASF - Gery Welker

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

Pest Code
 SETFA, Setaria faberi, = US
 CHEAL, Chenopodium album, = US
 AMBTR, Ambrosia trifida, = 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)
 TY2 = $6.222857 * [13] * (100 - [14]) / 84.5$

Pest Type		W Weed	W Weed	W Weed		W Weed
Pest Code		SETFA	CHEAL	AMBTR		SETFA
Pest Name		Giant foxtail	Common lambsqu>	Giant ragweed		Giant foxtail
Crop Code	ZEAMX				ZEAMX	
Crop Name	Corn				Corn	
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT C	PLOT P
Rating Date	5/29/2015	5/29/2015	5/29/2015	5/29/2015	6/9/2015	6/9/2015
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	7 7	7 7	7 7	7 7	18 18	18 18
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	18 DA-A	18 DA-A
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	20 DE-1	31 DE-1	31 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
1 Untreated Check		0 c	0 e	0 c	0 h	0 b
2 BAS677	16 fl oz/a A	3 b	85 c	100 a	64 f	0 b
MSO ULTRA	1 % v/v A					
N-PAK - AMS	2.5 % v/v A					95 bc
3 BAS677	20 fl oz/a A	3 bc	89 bc	100 a	76 de	0 b
MSO ULTRA	1 % v/v A					
N-PAK - AMS	2.5 % v/v A					94 c
4 CAPRENO	3 fl oz/a A	0 c	24 d	98 b	51 g	0 b
PRIME OIL - COC	1 % v/v A					
N-PAK - AMS	2.5 % v/v A					78 d
5 BAS677	16 fl oz/a A	2 bc	98 a	100 a	74 ef	0 b
ROUNDUP POWERMAX	16 fl oz/a A					
PRIME OIL - COC	1 % v/v A					
N-PAK - AMS	2.5 % v/v A					96 abc
6 BAS677	20 fl oz/a A	4 b	99 a	100 a	89 abc	3 a
ROUNDUP POWERMAX	16 fl oz/a A					
PRIME OIL - COC	1 % v/v A					
N-PAK - AMS	2.5 % v/v A					100 a
7 HALEX GT	3.6 pt/a A	0 c	97 ab	100 ab	79 cde	0 b
ACTIVATOR 90 - NIS	0.25 % v/v A					
N-PAK - AMS	2.5 % v/v A					99 ab

Purdue Weed Science

Pest Type		W Weed	W Weed	W Weed		W Weed
Pest Code		SETFA	CHEAL	AMBTR		SETFA
Pest Name		Giant foxtail	Common lambsqu>	Giant ragweed		Giant foxtail
Crop Code	ZEAMX				ZEAMX	
Crop Name	Corn				Corn	
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT C	PLOT P
Rating Date	5/29/2015	5/29/2015	5/29/2015	5/29/2015	6/9/2015	6/9/2015
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	7 7	7 7	7 7	7 7	18 18	18 18
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	18 DA-A	18 DA-A
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	20 DE-1	31 DE-1	31 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 HALEX GT	4 pt/a	A	0 c	99 a	100 a	86 bcd
ACTIVATOR 90 - NIS	0.25 % v/v	A				0 b
N-PAK - AMS	2.5 % v/v	A				100 a
9 BAS677	16 fl oz/a	A	6 a	100 a	100 a	99 a
ROUNDUP POWERMAX	16 fl oz/a	A				0 b
AATREX	1 pt/a	A				98 abc
PRIME OIL - COC	1 % v/v	A				
N-PAK - AMS	2.5 % v/v	A				
10 BAS677	20 fl oz/a	A	8 a	99 a	100 a	97 ab
ROUNDUP POWERMAX	16 fl oz/a	A				0 b
AATREX	1 pt/a	A				99 ab
PRIME OIL - COC	1 % v/v	A				
N-PAK - AMS	2.5 % v/v	A				
11 HALEX GT	3.6 pt/a	A	1 c	100 a	100 a	97 ab
AATREX	1 pt/a	A				0 b
ACTIVATOR 90 - NIS	0.25 % v/v	A				98 abc
N-PAK - AMS	2.5 % v/v	A				
12 HALEX GT	4 pt/a	A	0 c	100 a	100 a	97 ab
AATREX	1 pt/a	A				0 b
ACTIVATOR 90 - NIS	0.25 % v/v	A				100 a
N-PAK - AMS	2.5 % v/v	A				
LSD P=.05			2.7	8.6	2.3	12.3
Standard Deviation			1.9	6.0	1.1	8.6
CV			86.08	7.27	1.16	11.31
Bartlett's X2			10.484	42.58	1.835	24.312
P(Bartlett's X2)			0.106	0.001*	0.176	0.007*
Skewness			1.4076*	-1.7936*	-3.2125*	-1.6603*
Kurtosis			1.146	1.6311*	9.0911*	2.2227*
Replicate F			1.150	0.378	0.595	0.516
Replicate Prob(F)			0.3437	0.7695	0.4569	0.6738
Treatment F			8.205	126.094	1479.311	42.879
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001

Purdue Weed Science

Pest Type	W Weed	W Weed		W Weed	W Weed	W Weed		
Pest Code	CHEAL	AMBTR		SETFA	CHEAL	AMBTR		
Pest Name	Common lambsqu>	Giant ragweed		Giant foxtail	Common lambsqu>	Giant ragweed		
Crop Code			ZEAMX					
Crop Name			Corn					
Part Rated	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P	PLOT P		
Rating Date	6/9/2015	6/9/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015		
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	18 18	18 18	40 40	40 40	40 40	40 40		
Trt-Eval Interval	18 DA-A	18 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A		
Days After Emergence	31 DE-1	31 DE-1	53 DE-1	53 DE-1	53 DE-1	53 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
1 Untreated Check			0 b	0 d	0 a	0 d	0 c	0 e
2 BAS677	16 fl oz/a A		98 a	91 abc	0 a	79 bc	93 b	76 d
MSO ULTRA	1 % v/v A							
N-PAK - AMS	2.5 % v/v A							
3 BAS677	20 fl oz/a A		98 a	89 bc	0 a	89 ab	98 ab	85 c
MSO ULTRA	1 % v/v A							
N-PAK - AMS	2.5 % v/v A							
4 CAPRENO	3 fl oz/a A		100 a	93 abc	0 a	71 c	98 ab	89 bc
PRIME OIL - COC	1 % v/v A							
N-PAK - AMS	2.5 % v/v A							
5 BAS677	16 fl oz/a A		100 a	88 c	0 a	98 a	100 a	84 c
ROUNDUP POWERMAX	16 fl oz/a A							
PRIME OIL - COC	1 % v/v A							
N-PAK - AMS	2.5 % v/v A							
6 BAS677	20 fl oz/a A		100 a	89 bc	0 a	97 a	100 a	90 bc
ROUNDUP POWERMAX	16 fl oz/a A							
PRIME OIL - COC	1 % v/v A							
N-PAK - AMS	2.5 % v/v A							
7 HALEX GT	3.6 pt/a A		100 a	94 ab	0 a	95 a	100 a	95 ab
ACTIVATOR 90 - NIS	0.25 % v/v A							
N-PAK - AMS	2.5 % v/v A							

Purdue Weed Science

Pest Type	W Weed	W Weed		W Weed	W Weed	W Weed		
Pest Code	CHEAL	AMBTR		SETFA	CHEAL	AMBTR		
Pest Name	Common lambsqu>	Giant ragweed		Giant foxtail	Common lambsqu>	Giant ragweed		
Crop Code			ZEAMX					
Crop Name			Corn					
Part Rated	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P	PLOT P		
Rating Date	6/9/2015	6/9/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015		
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	18 18	18 18	40 40	40 40	40 40	40 40		
Trt-Eval Interval	18 DA-A	18 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A		
Days After Emergence	31 DE-1	31 DE-1	53 DE-1	53 DE-1	53 DE-1	53 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 Unit	Appl Code	7	8	9	10	11	12
8 HALEX GT	4 pt/a	A	100 a	91 abc	0 a	98 a	100 a	98 a
ACTIVATOR 90 - NIS	0.25 % v/v	A						
N-PAK - AMS	2.5 % v/v	A						
9 BAS677	16 fl oz/a	A	100 a	94 ab	0 a	96 a	100 a	89 bc
ROUNDUP POWERMAX	16 fl oz/a	A						
AATREX	1 pt/a	A						
PRIME OIL - COC	1 % v/v	A						
N-PAK - AMS	2.5 % v/v	A						
10 BAS677	20 fl oz/a	A	100 a	91 abc	0 a	97 a	100 a	86 c
ROUNDUP POWERMAX	16 fl oz/a	A						
AATREX	1 pt/a	A						
PRIME OIL - COC	1 % v/v	A						
N-PAK - AMS	2.5 % v/v	A						
11 HALEX GT	3.6 pt/a	A	100 a	95 a	0 a	98 a	100 a	98 a
AATREX	1 pt/a	A						
ACTIVATOR 90 - NIS	0.25 % v/v	A						
N-PAK - AMS	2.5 % v/v	A						
12 HALEX GT	4 pt/a	A	100 a	95 a	0 a	98 a	100 a	98 a
AATREX	1 pt/a	A						
ACTIVATOR 90 - NIS	0.25 % v/v	A						
N-PAK - AMS	2.5 % v/v	A						
LSD P=.05	3.0	5.0	.	11.5	7.0	6.4		
Standard Deviation	1.4	3.5	0.0	8.0	3.2	4.5		
CV	1.51	4.14	0.0	9.4	3.51	5.41		
Bartlett's X2	0.0	8.463	0.0	48.123	1.583	17.357		
P(Bartlett's X2)	.	0.488	.	0.001*	0.453	0.043*		
Skewness	-3.2059*	-2.9863*	.	-2.4575*	-3.1475*	-2.6979*		
Kurtosis	9.0626*	7.5118*	.	5.0082*	8.7896*	6.3279*		
Replicate F	2.200	2.217	0.000	1.082	2.570	0.522		
Replicate Prob(F)	0.1661	0.1046	1.0000	0.3700	0.1372	0.6701		
Treatment F	873.000	232.958	0.000	49.653	161.748	144.210		
Treatment Prob(F)	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001		

Purdue Weed Science

Pest Type				
Pest Code				
Pest Name				
Crop Code	ZEAMX	ZEAMX	ZEAMX	
Crop Name	Corn	Corn	Corn	
Part Rated	PLOT C	PLOT C	PLOT C	
Rating Date	9/24/2015	9/24/2015	9/24/2015	
Rating Type	YIELD	MOICON	YIELD	
Rating Unit	lb/plot	%	BU	
Number of Subsamples	1	1	1	
Days After First/Last Applic.	125 125	125 125	125 125	
Trt-Eval Interval	125 DA-A	125 DA-A	125 DA-A	
Days After Emergence	138 DE-1	138 DE-1	138 DE-1	
ARM Action Codes			TY2	
Number of Decimals	2	2	1	
Trt No.				
Treatment Name				
Rate				
Appl Code				
	13	14	15	
1 Untreated Check		9.47 c	19.74 a	55.9 c
2 BAS677	16 fl oz/a A	36.48 ab	18.95 a	217.8 ab
MSO ULTRA	1 % v/v A			
N-PAK - AMS	2.5 % v/v A			
3 BAS677	20 fl oz/a A	35.15 ab	19.10 a	209.8 ab
MSO ULTRA	1 % v/v A			
N-PAK - AMS	2.5 % v/v A			
4 CAPRENO	3 fl oz/a A	36.88 ab	19.08 a	220.0 ab
PRIME OIL - COC	1 % v/v A			
N-PAK - AMS	2.5 % v/v A			
5 BAS677	16 fl oz/a A	39.20 ab	18.92 a	234.1 ab
ROUNDUP POWERMAX	16 fl oz/a A			
PRIME OIL - COC	1 % v/v A			
N-PAK - AMS	2.5 % v/v A			
6 BAS677	20 fl oz/a A	37.93 ab	19.24 a	225.5 ab
ROUNDUP POWERMAX	16 fl oz/a A			
PRIME OIL - COC	1 % v/v A			
N-PAK - AMS	2.5 % v/v A			
7 HALEX GT	3.6 pt/a A	38.34 ab	19.60 a	227.5 ab
ACTIVATOR 90 - NIS	0.25 % v/v A			
N-PAK - AMS	2.5 % v/v A			

Purdue Weed Science

Pest Type				ZEAMX		ZEAMX		ZEAMX	
Pest Code				Corn		Corn		Corn	
Pest Name				PLOT C		PLOT C		PLOT C	
Crop Code				9/24/2015		9/24/2015		9/24/2015	
Crop Name				YIELD		MOICON		YIELD	
Part Rated				lb/plot		%		BU	
Rating Date				1		1		1	
Rating Type				125 125		125 125		125 125	
Rating Unit				125 DA-A		125 DA-A		125 DA-A	
Number of Subsamples				138 DE-1		138 DE-1		138 DE-1	
Days After First/Last Applic.								TY2	
Tri-Eval Interval				2		2		1	
Days After Emergence									
ARM Action Codes									
Number of Decimals									
Tri	Treatment	Rate	Appl						
No.	Name	Rate Unit	Code	13	14	15			
8	HALEX GT	4 pt/a	A	38.30 ab	19.99 a	225.8 ab			
	ACTIVATOR 90 - NIS	0.25 % v/v	A						
	N-PAK - AMS	2.5 % v/v	A						
9	BAS677	16 fl oz/a	A	34.46 b	19.80 a	203.8 b			
	ROUNDUP POWERMAX	16 fl oz/a	A						
	AATREX	1 pt/a	A						
	PRIME OIL - COC	1 % v/v	A						
	N-PAK - AMS	2.5 % v/v	A						
10	BAS677	20 fl oz/a	A	34.37 b	20.35 a	202.1 b			
	ROUNDUP POWERMAX	16 fl oz/a	A						
	AATREX	1 pt/a	A						
	PRIME OIL - COC	1 % v/v	A						
	N-PAK - AMS	2.5 % v/v	A						
11	HALEX GT	3.6 pt/a	A	40.26 ab	19.98 a	237.3 ab			
	AATREX	1 pt/a	A						
	ACTIVATOR 90 - NIS	0.25 % v/v	A						
	N-PAK - AMS	2.5 % v/v	A						
12	HALEX GT	4 pt/a	A	40.98 a	19.79 a	242.1 a			
	AATREX	1 pt/a	A						
	ACTIVATOR 90 - NIS	0.25 % v/v	A						
	N-PAK - AMS	2.5 % v/v	A						
LSD P=.05				6.038	1.060	36.04			
Standard Deviation				4.197	0.737	25.05			
CV				11.94	3.77	12.02			
Bartlett's X2				10.4	14.42	10.875			
P(Bartlett's X2)				0.495	0.211	0.454			
Skewness				-1.5102*	-1.1142*	-1.4927*			
Kurtosis				1.7476*	1.8812*	1.6171*			
Replicate F				17.662	19.291	18.875			
Replicate Prob(F)				0.0001	0.0001	0.0001			
Treatment F				15.894	1.658	15.723			
Treatment Prob(F)				0.0001	0.1279	0.0001			

Purdue Weed Science

Armezon PRO Field Performance-Rate Evaluation

Trial ID: 15S-THP-CTC-07 Location: TPAC Trial Year: 2015
 Protocol ID: 15S-THP-CTC-07 Investigator: Dr. Bill Johnson
 Project ID: DEV H 2015 US C43 Study Director: Joe Ikley
 Sponsor Contact: BASF - Gery Welker

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
 CHEAL, Chenopodium album, = US
 AMBTR, Ambrosia trifida, = 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)
 $TY2 = 6.222857 * [13] * (100 - [14]) / 84.5$