

Purdue Weed Science

Cheetah Broad Ratio Determination - LL Corn

Trial ID: 15S-THP-CTC-09 Location: TPAC Trial Year: 2015
 Protocol ID: 15S-THP-CTC-09 Investigator: Dr. Bill Johnson
 Project ID: H 2015 106 IN Study Director: Joe Ikley
 Sponsor Contact: Nufarm - Bob Bruss

General Trial Information

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

Trial Location

Country: USA United States

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
Postal Code: 47909
Country: USA United States **E-mail:** jayyoung@purdue.edu

Crop Description

Crop 1: ZEAMX Zea mays
Variety: DKC 62-08 RIB
Description: RR/LL

BBCH Scale: BCOR

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

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

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)

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Field Prep./Maintenance:

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

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:	2.4 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	302	503	704
2	CHEETAH N-PAK - AMS	2.34 3.4	LB/GAL LBA/GAL	SL SL	29 fl oz/a 2.5 % v/v	4" WEEDS	A A	27.19 ml/mx 45.0 ml/mx		102	404	605	706
3	NUP-15011 N-PAK - AMS	4 3.4	LB/GAL LBA/GAL	SC SL	3 fl oz/a 2.5 % v/v	4" WEEDS	A A	2.812 ml/mx 45.0 ml/mx		103	305	604	801
4	CHEETAH NUP-15011 N-PAK - AMS	2.34 4 3.4	LB/GAL LB/GAL LBA/GAL	SL SC SL	22 fl oz/a 2.5 fl oz/a 2.5 % v/v	4" WEEDS	A A A	20.62 ml/mx 2.344 ml/mx 45.0 ml/mx		104	406	603	802
5	CHEETAH NUP-15011 N-PAK - AMS	2.34 4 3.4	LB/GAL LB/GAL LBA/GAL	SL SC SL	22 fl oz/a 3 fl oz/a 2.5 % v/v	4" WEEDS	A A A	20.62 ml/mx 2.812 ml/mx 45.0 ml/mx		105	401	505	702
6	CHEETAH NUP-15011 N-PAK - AMS	2.34 4 3.4	LB/GAL LB/GAL LBA/GAL	SL SC SL	29 fl oz/a 2.5 fl oz/a 2.5 % v/v	4" WEEDS	A A A	27.19 ml/mx 2.344 ml/mx 45.0 ml/mx		106	306	606	805
7	CHEETAH NUP-15011 N-PAK - AMS	2.34 4 3.4	LB/GAL LB/GAL LBA/GAL	SL SC SL	29 fl oz/a 3 fl oz/a 2.5 % v/v	4" WEEDS	A A A	27.19 ml/mx 2.812 ml/mx 45.0 ml/mx		201	402	601	804

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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
8	CHEETAH	2.34	LB/GAL	SL	22 fl oz/a		A	20.62 ml/mx	202	303	502	803
	NUP-15011	4	LB/GAL	SC	2.5 fl oz/a		A	2.344 ml/mx				
	AATREX	4	LB/GAL	L	1 qt/a		A	30.0 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	4" WEEDS	A	45.0 ml/mx				
9	CHEETAH	2.34	LB/GAL	SL	22 fl oz/a		A	20.62 ml/mx	203	301	602	806
	NUP-15011	4	LB/GAL	SC	3 fl oz/a		A	2.812 ml/mx				
	AATREX	4	LB/GAL	L	1 qt/a		A	30.0 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	4" WEEDS	A	45.0 ml/mx				
10	CHEETAH	2.34	LB/GAL	SL	29 fl oz/a		A	27.19 ml/mx	204	403	501	703
	NUP-15011	4	LB/GAL	SC	2.5 fl oz/a		A	2.344 ml/mx				
	AATREX	4	LB/GAL	L	1 qt/a		A	30.0 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	4" WEEDS	A	45.0 ml/mx				
11	LIBERTY 280 SL	2.34	LB/GAL	SL	29 fl oz/a		A	27.19 ml/mx	205	304	504	701
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	4" WEEDS	A	45.0 ml/mx				
12	INTERLINE	2.34	LB/GAL	SL	29 fl oz/a		A	27.19 ml/mx	206	405	506	705
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	4" WEEDS	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
239.062	ml	CHEETAH	2.34	SL	
618.683	ml	N-PAK - AMS	3.4	SL	
25.781	ml	NUP-15011	4	SC	
112.500	ml	AATREX	4	L	
33.984	ml	LIBERTY 280 SL	2.34	SL	
33.984	ml	INTERLINE	2.34	SL	

* '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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 Sponsor Contact: Nufarm - Bob Bruss

Pest Type		W Weed SETFA	W Weed AMBTR		W Weed SETFA	W Weed AMBTR			
Pest Code		Giant foxtail	Giant ragweed		Giant foxtail	Giant ragweed			
Pest Name									
Crop Code	ZEAMX			ZEAMX			ZEAMX		
Crop Name	Corn			Corn			Corn		
Part Rated	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P	PLOT C		
Rating Date	5/29/2015	5/29/2015	5/29/2015	6/5/2015	6/5/2015	6/5/2015	6/9/2015		
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1	1		
Days After First/Last Applic.	7 7	7 7	7 7	14 14	14 14	14 14	18 18		
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	14 DA-A	14 DA-A	14 DA-A	18 DA-A		
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	27 DE-1	27 DE-1	27 DE-1	31 DE-1		
ARM Action Codes	P	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0	0		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6	7
1 Untreated Check		101	0	0	0	0	0	0	0
		302	0	0	0	0	0	0	0
		503	0	0	0	0	0	0	0
		704	0	0	0	0	0	0	0
		Mean =	0	0	0	0	0	0	0
2 CHEETAH	29 fl oz/a A	102	0	80	100	0	85	90	0
N-PAK - AMS	2.5 % v/v A	404	0	100	100	0	95	100	0
		605	0	95	100	0	95	100	0
		706	0	90	100	0	90	90	0
		Mean =	0	91	100	0	91	95	0
3 NUP-15011	3 fl oz/a A	103	0	20	30	0	0	80	0
N-PAK - AMS	2.5 % v/v A	305	0	30	40	0	20	75	0
		604	0	10	20	0	10	95	0
		801	0	10	15	0	0	85	0
		Mean =	0	18	26	0	8	84	0
4 CHEETAH	22 fl oz/a A	104	0	100	100	0	95	90	0
NUP-15011	2.5 fl oz/a A	406	0	100	100	0	90	95	0
N-PAK - AMS	2.5 % v/v A	603	0	95	95	0	90	100	0
		802	0	80	100	0	85	95	0
		Mean =	0	94	99	0	90	95	0
5 CHEETAH	22 fl oz/a A	105	0	95	100	0	95	90	0
NUP-15011	3 fl oz/a A	401	0	95	100	0	85	90	0
N-PAK - AMS	2.5 % v/v A	505	0	90	100	0	85	90	0
		702	0	95	100	0	85	95	0
		Mean =	0	94	100	0	88	91	0
6 CHEETAH	29 fl oz/a A	106	1	95	100	0	95	95	0
NUP-15011	2.5 fl oz/a A	306	0	100	100	0	95	85	0
N-PAK - AMS	2.5 % v/v A	606	0	100	100	0	90	100	0
		805	0	100	100	0	95	95	0
		Mean =	0	99	100	0	94	94	0
7 CHEETAH	29 fl oz/a A	201	0	95	100	0	90	95	0
NUP-15011	3 fl oz/a A	402	0	95	100	0	90	100	0
N-PAK - AMS	2.5 % v/v A	601	0	90	85	0	90	10	0
		804	0	100	100	0	95	90	0
		Mean =	0	95	96	0	91	74	0
8 CHEETAH	22 fl oz/a A	202	0	90	100	0	90	100	0
NUP-15011	2.5 fl oz/a A	303	0	95	95	0	95	95	0
AATREX	1 qt/a A	502	0	95	99	0	90	100	0
N-PAK - AMS	2.5 % v/v A	803	2	100	100	0	100	95	0
		Mean =	1	95	99	0	94	98	0
9 CHEETAH	22 fl oz/a A	203	0	100	99	0	100	100	0
NUP-15011	3 fl oz/a A	301	0	99	100	0	90	100	0
AATREX	1 qt/a A	602	0	95	95	0	90	100	0
N-PAK - AMS	2.5 % v/v A	806	0	100	100	0	100	100	0
		Mean =	0	99	99	0	95	100	0

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Pest Type		W Weed	W Weed		W Weed	W Weed		
Pest Code		SETFA	AMBTR		SETFA	AMBTR		
Pest Name		Giant foxtail	Giant ragweed		Giant foxtail	Giant ragweed		
Crop Code	ZEAMX			ZEAMX			ZEAMX	
Crop Name	Corn			Corn			Corn	
Part Rated	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P	PLOT C	
Rating Date	5/29/2015	5/29/2015	5/29/2015	6/5/2015	6/5/2015	6/5/2015	6/9/2015	
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN	
Rating Unit	%	%	%	%	%	%	%	
Number of Subsamples	1	1	1	1	1	1	1	
Days After First/Last Applic.	7 7	7 7	7 7	14 14	14 14	14 14	18 18	
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	14 DA-A	14 DA-A	14 DA-A	18 DA-A	
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	27 DE-1	27 DE-1	27 DE-1	31 DE-1	
ARM Action Codes	P	P	P	P	P	P	P	
Number of Decimals	0	0	0	0	0	0	0	
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
10 CHEETAH	29 fl oz/a A	204	2	100	100	0	100	100
NUP-15011	2.5 fl oz/a A	403	2	100	100	0	100	100
AATREX	1 qt/a A	501	0	100	100	0	95	100
N-PAK - AMS	2.5 % v/v A	703	0	100	100	0	95	90
	Mean =		1	100	100	0	98	98
11 LIBERTY 280 SL	29 fl oz/a A	205	0	97	100	0	100	85
N-PAK - AMS	2.5 % v/v A	304	0	100	100	0	100	95
		504	0	100	100	0	95	100
		701	0	95	100	0	80	100
	Mean =		0	98	100	0	94	95
12 INTERLINE	29 fl oz/a A	206	0	95	100	0	95	80
N-PAK - AMS	2.5 % v/v A	405	0	100	100	0	100	90
		506	0	100	100	0	95	95
		705	0	100	100	0	95	100
	Mean =		0	99	100	0	96	91

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Pest Type	W Weed SETFA	W Weed AMBTR		W Weed SETFA	W Weed AMBTR		W Weed SETFA		
Pest Code	Giant foxtail	Giant ragweed		Giant foxtail	Giant ragweed		Giant foxtail		
Pest Name			ZEAMX Corn			ZEAMX Corn			
Crop Code									
Crop Name									
Part Rated	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P		
Rating Date	6/9/2015	6/9/2015	6/20/2015	6/20/2015	6/20/2015	7/1/2015	7/1/2015		
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO		
Rating Unit	%	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1	1		
Days After First/Last Applic.	18 18	18 18	29 29	29 29	29 29	40 40	40 40		
Trt-Eval Interval	18 DA-A	18 DA-A	29 DA-A	29 DA-A	29 DA-A	40 DA-A	40 DA-A		
Days After Emergence	31 DE-1	31 DE-1	42 DE-1	42 DE-1	42 DE-1	53 DE-1	53 DE-1		
ARM Action Codes	P	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0	0		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot	8	9	10	11	12	13	14
1 Untreated Check		101	0	0	0	0	0	0	0
		302	0	0	0	0	0	0	0
		503	0	0	0	0	0	0	0
		704	0	0	0	0	0	0	0
		Mean =	0	0	0	0	0	0	0
2 CHEETAH	29 fl oz/a A	102	80	90	0	94*	60	0	50
N-PAK - AMS	2.5 % v/v A	404	95	100	0	90	75	0	90
		605	95	100	0	90	60	0	90
		706	95	90	0	90	25	0	80
		Mean =	91	95	0	91	55	0	78
3 NUP-15011	3 fl oz/a A	103	0	70	0	10	30	0	0
N-PAK - AMS	2.5 % v/v A	305	0	60	0	10	40	0	10
		604	20	100	0	0	34*	0	0
		801	0	90	0	0	40	0	0
		Mean =	5	80	0	5	36	0	3
4 CHEETAH	22 fl oz/a A	104	95	85	0	50	70	0	60
NUP-15011	2.5 fl oz/a A	406	90	95	0	70	75	0	70
N-PAK - AMS	2.5 % v/v A	603	95	100	0	30	95	0	40
		802	85	95	0	30	70	0	50
		Mean =	91	94	0	45	78	0	55
5 CHEETAH	22 fl oz/a A	105	90	90	0	50	80	0	55
NUP-15011	3 fl oz/a A	401	85	95	0	55	90	0	50
N-PAK - AMS	2.5 % v/v A	505	85	95	0	10	30	0	15
		702	85	100	0	20	80	0	20
		Mean =	86	95	0	34	70	0	35
6 CHEETAH	29 fl oz/a A	106	95	95	0	60	90	0	65
NUP-15011	2.5 fl oz/a A	306	95	85	0	70	50	0	70
N-PAK - AMS	2.5 % v/v A	606	95	100	0	50	85	0	60
		805	95	100	0	80	75	0	80
		Mean =	95	95	0	65	75	0	69
7 CHEETAH	29 fl oz/a A	201	90	100	0	70	85	0	65
NUP-15011	3 fl oz/a A	402	90	100	0	30	95	0	35
N-PAK - AMS	2.5 % v/v A	601	90	100	0	30	80	0	35
		804	95	95	0	80	80	0	75
		Mean =	91	99	0	53	85	0	53
8 CHEETAH	22 fl oz/a A	202	90	100	0	60	100	0	60
NUP-15011	2.5 fl oz/a A	303	90	100	0	70	70	0	65
AATREX	1 qt/a A	502	85	100	0	70	95	0	60
N-PAK - AMS	2.5 % v/v A	803	95	100	0	90	90	0	85
		Mean =	90	100	0	73	89	0	68
9 CHEETAH	22 fl oz/a A	203	100	100	0	90	100	0	90
NUP-15011	3 fl oz/a A	301	85	100	0	90	95	0	80
AATREX	1 qt/a A	602	90	100	0	74*	100	0	35
N-PAK - AMS	2.5 % v/v A	806	95	100	0	80	85	0	80
		Mean =	93	100	0	84	95	0	71

Purdue Weed Science

Pest Type	W Weed	W Weed		W Weed	W Weed		W Weed
Pest Code	SETFA	AMBTR		SETFA	AMBTR		SETFA
Pest Name	Giant foxtail	Giant ragweed		Giant foxtail	Giant ragweed		Giant foxtail
Crop Code			ZEAMX			ZEAMX	
Crop Name			Corn			Corn	
Part Rated	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P
Rating Date	6/9/2015	6/9/2015	6/20/2015	6/20/2015	6/20/2015	7/1/2015	7/1/2015
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1
Days After First/Last Applic.	18 18	18 18	29 29	29 29	29 29	40 40	40 40
Trit-Eval Interval	18 DA-A	18 DA-A	29 DA-A	29 DA-A	29 DA-A	40 DA-A	40 DA-A
Days After Emergence	31 DE-1	31 DE-1	42 DE-1	42 DE-1	42 DE-1	53 DE-1	53 DE-1
ARM Action Codes	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0
Trit Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	8	9	10	11	12
10 CHEETAH	29 fl oz/a A	204	100	100	0	95	95
NUP-15011	2.5 fl oz/a A	403	100	100	0	90	97
AATREX	1 qt/a A	501	95	100	0	85	90
N-PAK - AMS	2.5 % v/v A	703	95	95	0	70	70
	Mean =		98	99	0	85	88
11 LIBERTY 280 SL	29 fl oz/a A	205	95	95	0	80	80
N-PAK - AMS	2.5 % v/v A	304	95	90	0	80	75
		504	100	100	0	80	70
		701	85	100	0	83*	70
	Mean =		94	96	0	81	74
12 INTERLINE	29 fl oz/a A	206	95	90	0	70	60
N-PAK - AMS	2.5 % v/v A	405	95	90	0	80	35
		506	95	95	0	60	20
		705	95	95	0	90	50
	Mean =		95	93	0	75	41

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	9/25/2015	9/25/2015	9/25/2015		
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	126 126	126 126	126 126		
Trt-Eval Interval	40 DA-A	126 DA-A	126 DA-A	126 DA-A		
Days After Emergence	53 DE-1	139 DE-1	139 DE-1	139 DE-1		
ARM Action Codes	P			TY1		
Number of Decimals	0	2	2	1		
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	15	16	17	18
1 Untreated Check		101	0	3.98	12.66	25.6
		302	0	6.40	19.67	37.8
		503	0	31.86	18.87	190.3
		704	0	8.01	21.52	46.3
		Mean =	0	12.56	18.18	75.0
2 CHEETAH	29 fl oz/a A	102	60	30.78	16.39	189.5
N-PAK - AMS	2.5 % v/v A	404	75	37.55	17.90	227.1
		605	50	41.85	19.94	246.7
		706	40	32.50	19.10	193.6
		Mean =	56	35.67	18.33	214.2
3 NUP-15011	3 fl oz/a A	103	40	24.71	17.58	150.0
N-PAK - AMS	2.5 % v/v A	305	40	31.43	19.92	185.3
		604	95	39.76	19.60	235.4
		801	50	23.75	19.96	140.0
		Mean =	56	29.91	19.26	177.7
4 CHEETAH	22 fl oz/a A	104	70	40.13	15.66	249.2
NUP-15011	2.5 fl oz/a A	406	70	33.20	20.19	195.1
N-PAK - AMS	2.5 % v/v A	603	95	46.15	19.33	274.1
		802	80	44.91	19.12	267.5
		Mean =	79	41.10	18.58	246.5
5 CHEETAH	22 fl oz/a A	105	75	39.33	15.55	244.6
NUP-15011	3 fl oz/a A	401	90	29.66	18.96	177.0
N-PAK - AMS	2.5 % v/v A	505	40	42.12	18.64	252.4
		702	90	42.76	19.04	255.0
		Mean =	74	38.47	18.05	232.2
6 CHEETAH	29 fl oz/a A	106	85	42.92	16.60	263.6
NUP-15011	2.5 fl oz/a A	306	40	34.44	19.94	203.0
N-PAK - AMS	2.5 % v/v A	606	80	43.52	19.64	257.5
		805	80	43.09	19.05	256.9
		Mean =	71	40.99	18.81	245.3
7 CHEETAH	29 fl oz/a A	201	80	38.57	18.70	231.0
NUP-15011	3 fl oz/a A	402	95	31.54	17.12	192.5
N-PAK - AMS	2.5 % v/v A	601	90	39.16	19.91	231.0
		804	80	42.44	19.64	251.2
		Mean =	86	37.93	18.84	226.4
8 CHEETAH	22 fl oz/a A	202	100	37.34	18.92	222.9
NUP-15011	2.5 fl oz/a A	303	75	39.22	19.54	232.4
AATREX	1 qt/a A	502	95	45.56	18.58	273.2
N-PAK - AMS	2.5 % v/v A	803	90	43.57	19.10	259.6
		Mean =	90	41.42	19.03	247.0
9 CHEETAH	22 fl oz/a A	203	98	41.10	18.30	247.3
NUP-15011	3 fl oz/a A	301	95	30.35	20.16	178.5
AATREX	1 qt/a A	602	95	42.60	19.25	253.3
N-PAK - AMS	2.5 % v/v A	806	85	41.21	19.12	245.4
		Mean =	93	38.82	19.21	231.1

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	9/25/2015	9/25/2015	9/25/2015
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	126 126	126 126	126 126
Trt-Eval Interval	40 DA-A	126 DA-A	126 DA-A	126 DA-A
Days After Emergence	53 DE-1	139 DE-1	139 DE-1	139 DE-1
ARM Action Codes	P			TY1
Number of Decimals	0	2	2	1

Trt	Treatment	Rate	Appl	Plot	15	16	17	18
10	CHEETAH	29 fl oz/a	A	204	90	44.43	18.56	266.5
	NUP-15011	2.5 fl oz/a	A	403	95	39.22	18.21	236.2
	AATREX	1 qt/a	A	501	90	37.98	19.09	226.3
	N-PAK - AMS	2.5 % v/v	A	703	70	40.13	19.10	239.1
				Mean =	86	40.44	18.74	242.0
11	LIBERTY 280 SL	29 fl oz/a	A	205	65	36.48	17.09	222.7
	N-PAK - AMS	2.5 % v/v	A	304	70	37.18	19.89	219.3
				504	60	38.68	18.61	231.8
				701	70	35.35	19.15	210.5
				Mean =	66	36.92	18.68	221.1
12	INTERLINE	29 fl oz/a	A	206	50	33.20	18.32	199.7
	N-PAK - AMS	2.5 % v/v	A	405	40	31.21	18.73	186.8
				506	25	34.17	18.67	204.6
				705	50	33.90	18.46	203.6
				Mean =	41	33.12	18.55	198.7

Purdue Weed Science

Cheetah Broad Ratio Determination - LL Corn

Trial ID: 15S-THP-CTC-09 Location: TPAC Trial Year: 2015
 Protocol ID: 15S-THP-CTC-09 Investigator: Dr. Bill Johnson
 Project ID: H 2015 106 IN Study Director: Joe Ikley
 Sponsor Contact: Nufarm - Bob Bruss

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

Pest Code
 SETFA, Setaria faberi, = 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)
 TY1 = $6.222857 * [16] * (100 - [17]) / 84.5$

Pest Type		W Weed	W Weed		W Weed	W Weed		W Weed			
Pest Code		SETFA	AMBTR		SETFA	AMBTR		SETFA			
Pest Name		Giant foxtail	Giant ragweed		Giant foxtail	Giant ragweed		Giant foxtail			
Crop Code	ZEAMX			ZEAMX			ZEAMX				
Crop Name	Corn			Corn			Corn				
Part Rated	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P			
Rating Date	5/29/2015	5/29/2015	5/29/2015	6/5/2015	6/5/2015	6/5/2015	6/9/2015	6/9/2015			
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1	1			
Days After First/Last Applic.	7 7	7 7	7 7	14 14	14 14	14 14	18 18	18 18			
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	14 DA-A	14 DA-A	14 DA-A	18 DA-A	18 DA-A			
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	27 DE-1	27 DE-1	27 DE-1	31 DE-1	31 DE-1			
ARM Action Codes	P	P	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0	0	0			
Trt No.	Treatment Name	Rate	Appl	1	2	3	4	5	6	7	8
		Rate Unit	Code								
1	Untreated Check			0 a	0 d	0 c	0 a	0 c	0 c	0 a	0 d
2	CHEETAH N-PAK - AMS	29 fl oz/a A 2.5 % v/v A		0 a	91 b	100 a	0 a	91 ab	95 a	0 a	91 abc
3	NUP-15011 N-PAK - AMS	3 fl oz/a A 2.5 % v/v A		0 a	18 c	26 b	0 a	8 c	84 ab	0 a	5 d
4	CHEETAH NUP-15011 N-PAK - AMS	22 fl oz/a A 2.5 fl oz/a A 2.5 % v/v A		0 a	94 ab	99 a	0 a	90 ab	95 a	0 a	91 abc
5	CHEETAH NUP-15011 N-PAK - AMS	22 fl oz/a A 3 fl oz/a A 2.5 % v/v A		0 a	94 ab	100 a	0 a	88 b	91 ab	0 a	86 c
6	CHEETAH NUP-15011 N-PAK - AMS	29 fl oz/a A 2.5 fl oz/a A 2.5 % v/v A		0 a	99 a	100 a	0 a	94 ab	94 a	0 a	95 ab
7	CHEETAH NUP-15011 N-PAK - AMS	29 fl oz/a A 3 fl oz/a A 2.5 % v/v A		0 a	95 ab	96 a	0 a	91 ab	74 b	0 a	91 abc
8	CHEETAH NUP-15011 AATREX N-PAK - AMS	22 fl oz/a A 2.5 fl oz/a A 1 qt/a A 2.5 % v/v A		1 a	95 ab	99 a	0 a	94 ab	98 a	0 a	90 bc

Purdue Weed Science

Pest Type		W Weed	W Weed		W Weed	W Weed		W Weed			
Pest Code		SETFA	AMBTR		SETFA	AMBTR		SETFA			
Pest Name		Giant foxtail	Giant ragweed		Giant foxtail	Giant ragweed		Giant foxtail			
Crop Code	ZEAMX			ZEAMX			ZEAMX				
Crop Name	Corn			Corn			Corn				
Part Rated	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P			
Rating Date	5/29/2015	5/29/2015	5/29/2015	6/5/2015	6/5/2015	6/5/2015	6/9/2015	6/9/2015			
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1	1			
Days After First/Last Applic.	7 7	7 7	7 7	14 14	14 14	14 14	18 18	18 18			
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	14 DA-A	14 DA-A	14 DA-A	18 DA-A	18 DA-A			
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	27 DE-1	27 DE-1	27 DE-1	31 DE-1	31 DE-1			
ARM Action Codes	P	P	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0	0	0			
Trt No.	Treatment Name	Rate	Appl	1	2	3	4	5	6	7	8
		Rate Unit	Code								
9	CHEETAH	22 fl oz/a	A	0 a	99 a	99 a	0 a	95 ab	100 a	0 a	93 abc
	NUP-15011	3 fl oz/a	A								
	AATREX	1 qt/a	A								
	N-PAK - AMS	2.5 % v/v	A								
10	CHEETAH	29 fl oz/a	A	1 a	100 a	100 a	0 a	98 a	98 a	0 a	98 a
	NUP-15011	2.5 fl oz/a	A								
	AATREX	1 qt/a	A								
	N-PAK - AMS	2.5 % v/v	A								
11	LIBERTY 280 SL	29 fl oz/a	A	0 a	98 ab	100 a	0 a	94 ab	95 a	0 a	94 ab
	N-PAK - AMS	2.5 % v/v	A								
12	INTERLINE	29 fl oz/a	A	0 a	99 a	100 a	0 a	96 a	91 ab	0 a	95 ab
	N-PAK - AMS	2.5 % v/v	A								
LSD P=.05		0.7		7.2	5.6	.	7.5	19.9	.	7.3	
Standard Deviation		0.5		5.0	3.9	0.0	5.2	13.9	0.0	5.1	
CV		323.71		6.13	4.62	0.0	6.69	16.41	0.0	6.59	
Bartlett's X2		1.903		18.243	12.12	0.0	13.492	45.42	0.0	10.318	
P(Bartlett's X2)		0.386		0.032*	0.016*	.	0.197	0.001*	.	0.243	
Skewness		3.3836*		-1.8393*	-1.9549*	.	-1.7964*	-2.4747*	.	-1.8006*	
Kurtosis		10.1996*		1.6626*	2.1291*	.	1.4633*	4.738*	.	1.4552*	
Replicate F		0.592		1.691	1.797	0.000	1.042	0.176	0.000	0.447	
Replicate Prob(F)		0.6246		0.1880	0.1669	1.0000	0.3870	0.9118	1.0000	0.7211	
Treatment F		1.725		188.649	300.534	0.000	178.067	15.784	0.000	189.517	
Treatment Prob(F)		0.1109		0.0001	0.0001	1.0000	0.0001	0.0001	1.0000	0.0001	

Purdue Weed Science

Pest Type	W Weed		W Weed	W Weed		W Weed	W Weed				
Pest Code	AMBTR		SETFA	AMBTR		SETFA	AMBTR				
Pest Name	Giant ragweed		Giant foxtail	Giant ragweed		Giant foxtail	Giant ragweed				
Crop Code		ZEAMX			ZEAMX			ZEAMX			
Crop Name		Corn			Corn			Corn			
Part Rated											
Rating Date	PLOT P	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P	PLOT C			
Rating Date	6/9/2015	6/20/2015	6/20/2015	6/20/2015	7/1/2015	7/1/2015	7/1/2015	9/25/2015			
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	YIELD			
Rating Unit	%	%	%	%	%	%	%	lb/plot			
Number of Subsamples	1	1	1	1	1	1	1	1			
Days After First/Last Applic.	18 18	29 29	29 29	29 29	40 40	40 40	40 40	126 126			
Trt-Eval Interval	18 DA-A	29 DA-A	29 DA-A	29 DA-A	40 DA-A	40 DA-A	40 DA-A	126 DA-A			
Days After Emergence	31 DE-1	42 DE-1	42 DE-1	42 DE-1	53 DE-1	53 DE-1	53 DE-1	139 DE-1			
ARM Action Codes	P	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0	0	2			
Trt No.	Treatment Name	Rate	Appl								
		Rate Unit	Code	9	10	11	12	13	14	15	16
1	Untreated Check			0 c	0 a	0 e	0 e	0 a	0 d	0 f	12.56 d
2	CHEETAH N-PAK - AMS	29 fl oz/a A 2.5 % v/v A		95 a	0 a	91 a	55 cd	0 a	78 a	56 de	35.67 abc
3	NUP-15011 N-PAK - AMS	3 fl oz/a A 2.5 % v/v A		80 b	0 a	5 e	36 d	0 a	3 d	56 de	29.91 c
4	CHEETAH NUP-15011 N-PAK - AMS	22 fl oz/a A 2.5 fl oz/a A 2.5 % v/v A		94 a	0 a	45 d	78 ab	0 a	55 b	79 abc	41.10 a
5	CHEETAH NUP-15011 N-PAK - AMS	22 fl oz/a A 3 fl oz/a A 2.5 % v/v A		95 a	0 a	34 d	70 bc	0 a	35 c	74 a-d	38.47 ab
6	CHEETAH NUP-15011 N-PAK - AMS	29 fl oz/a A 2.5 fl oz/a A 2.5 % v/v A		95 a	0 a	65 bc	75 abc	0 a	69 ab	71 bcd	40.99 a
7	CHEETAH NUP-15011 N-PAK - AMS	29 fl oz/a A 3 fl oz/a A 2.5 % v/v A		99 a	0 a	53 cd	85 ab	0 a	53 bc	86 abc	37.93 ab
8	CHEETAH NUP-15011 AATREX N-PAK - AMS	22 fl oz/a A 2.5 fl oz/a A 1 qt/a A 2.5 % v/v A		100 a	0 a	73 ab	89 ab	0 a	68 ab	90 ab	41.42 a

Purdue Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMBTR	SETFA	AMBTR	SETFA	AMBTR	SETFA	AMBTR				
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed				
Crop Code	ZEAMX		ZEAMX		ZEAMX		ZEAMX				
Crop Name	Corn		Corn		Corn		Corn				
Part Rated	PLOT P	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT C				
Rating Date	6/9/2015	6/20/2015	6/20/2015	6/20/2015	7/1/2015	7/1/2015	9/25/2015				
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%	lb/plot				
Number of Subsamples	1	1	1	1	1	1	1				
Days After First/Last Applic.	18 18	29 29	29 29	29 29	40 40	40 40	40 40				
Trt-Eval Interval	18 DA-A	29 DA-A	29 DA-A	29 DA-A	40 DA-A	40 DA-A	40 DA-A				
Days After Emergence	31 DE-1	42 DE-1	42 DE-1	42 DE-1	53 DE-1	53 DE-1	53 DE-1				
ARM Action Codes	P	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0	2				
Trt No.	Treatment Name	Rate	Appl Code	9	10	11	12	13	14	15	16
9	CHEETAH	22 fl oz/a	A	100 a	0 a	84 ab	95 a	0 a	71 ab	93 a	38.82 ab
	NUP-15011	3 fl oz/a	A								
	AATREX	1 qt/a	A								
	N-PAK - AMS	2.5 % v/v	A								
10	CHEETAH	29 fl oz/a	A	99 a	0 a	85 a	88 ab	0 a	87 a	86 abc	40.44 a
	NUP-15011	2.5 fl oz/a	A								
	AATREX	1 qt/a	A								
	N-PAK - AMS	2.5 % v/v	A								
11	LIBERTY 280 SL	29 fl oz/a	A	96 a	0 a	81 ab	74 bc	0 a	82 a	66 cd	36.92 abc
	N-PAK - AMS	2.5 % v/v	A								
12	INTERLINE	29 fl oz/a	A	93 a	0 a	75 ab	41 d	0 a	80 a	41 e	33.12 bc
	N-PAK - AMS	2.5 % v/v	A								
LSD P=.05				8.7	.	19.4	20.7	.	19.2	21.8	7.070
Standard Deviation				6.1	0.0	13.4	14.4	0.0	13.3	15.1	4.915
CV				6.96	0.0	23.38	22.0	0.0	23.52	22.7	13.8
Bartlett's X2				21.661	0.0	9.644	14.21	0.0	12.119	14.775	20.698
P(Bartlett's X2)				0.006*	.	0.291	0.164	.	0.207	0.14	0.037*
Skewness				-2.7477*	.	-0.6284	-0.9975*	.	-0.7449*	-1.0288*	-2.0039*
Kurtosis				6.3888*	.	-1.0774	0.0238	.	-0.8241	0.3173	4.4615*
Replicate F				3.062	0.000	2.513	1.013	0.000	2.879	0.102	6.302
Replicate Prob(F)				0.0416	1.0000	0.0774	0.3997	1.0000	0.0517	0.9581	0.0017
Treatment F				84.969	0.000	21.181	14.882	0.000	19.785	11.996	10.715
Treatment Prob(F)				0.0001	1.0000	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
Crop Name		Corn	Corn
Part Rated		PLOT C	PLOT C
Rating Date		9/25/2015	9/25/2015
Rating Type		MOICON	YIELD
Rating Unit		%	BU
Number of Subsamples		1	1
Days After First/Last Applic.		126 126	126 126
Trt-Eval Interval		126 DA-A	126 DA-A
Days After Emergence		139 DE-1	139 DE-1
ARM Action Codes			TY1
Number of Decimals		2	1
Trt No.	Treatment	Rate	Appl
	Name	Rate Unit	Code
			17
			18
1	Untreated Check		18.18 a 75.0 d
2	CHEETAH N-PAK - AMS	29 fl oz/a A 2.5 % v/v A	18.33 a 214.2 abc
3	NUP-15011 N-PAK - AMS	3 fl oz/a A 2.5 % v/v A	19.26 a 177.7 c
4	CHEETAH NUP-15011 N-PAK - AMS	22 fl oz/a A 2.5 fl oz/a A 2.5 % v/v A	18.58 a 246.5 a
5	CHEETAH NUP-15011 N-PAK - AMS	22 fl oz/a A 3 fl oz/a A 2.5 % v/v A	18.05 a 232.2 ab
6	CHEETAH NUP-15011 N-PAK - AMS	29 fl oz/a A 2.5 fl oz/a A 2.5 % v/v A	18.81 a 245.3 a
7	CHEETAH NUP-15011 N-PAK - AMS	29 fl oz/a A 3 fl oz/a A 2.5 % v/v A	18.84 a 226.4 ab
8	CHEETAH NUP-15011 AATREX N-PAK - AMS	22 fl oz/a A 2.5 fl oz/a A 1 qt/a A 2.5 % v/v A	19.03 a 247.0 a

Purdue Weed Science

Pest Type			
Pest Code			
Pest Name			
Crop Code	ZEAMX	ZEAMX	
Crop Name	Corn	Corn	
Part Rated	PLOT C	PLOT C	
Rating Date	9/25/2015	9/25/2015	
Rating Type	MOICON	YIELD	
Rating Unit	%	BU	
Number of Subsamples	1	1	
Days After First/Last Applic.	126 126	126 126	
Trt-Eval Interval	126 DA-A	126 DA-A	
Days After Emergence	139 DE-1	139 DE-1	
ARM Action Codes		TY1	
Number of Decimals	2	1	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
		17	18
9 CHEETAH	22 fl oz/a A	19.21 a	231.1 ab
NUP-15011	3 fl oz/a A		
AATREX	1 qt/a A		
N-PAK - AMS	2.5 % v/v A		
10 CHEETAH	29 fl oz/a A	18.74 a	242.0 a
NUP-15011	2.5 fl oz/a A		
AATREX	1 qt/a A		
N-PAK - AMS	2.5 % v/v A		
11 LIBERTY 280 SL	29 fl oz/a A	18.68 a	221.1 ab
N-PAK - AMS	2.5 % v/v A		
12 INTERLINE	29 fl oz/a A	18.55 a	198.7 bc
N-PAK - AMS	2.5 % v/v A		
LSD P=.05	1.772	42.76	
Standard Deviation	1.232	29.72	
CV	6.59	13.95	
Bartlett's X2	29.927	20.217	
P(Bartlett's X2)	0.002*	0.042*	
Skewness	-1.8602*	-2.0001*	
Kurtosis	5.4993*	4.4161*	
Replicate F	9.759	5.852	
Replicate Prob(F)	0.0001	0.0025	
Treatment F	0.380	10.540	
Treatment Prob(F)	0.9546	0.0001	

Purdue Weed Science

Cheetah Broad Ratio Determination - LL Corn

Trial ID: 15S-THP-CTC-09 Location: TPAC Trial Year: 2015
 Protocol ID: 15S-THP-CTC-09 Investigator: Dr. Bill Johnson
 Project ID: H 2015 106 IN Study Director: Joe Ikley
 Sponsor Contact: Nufarm - Bob Bruss

Pest Type

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

Pest Code

SETFA, Setaria faberi, = 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)

TY1 = $6.222857 * [16] * (100 - [17]) / 84.5$