

Purdue Weed Science

Armezon Status Combinations

Trial ID: 15S-THP-CTC-06 Location: TPAC Trial Year: 2015
 Protocol ID: 15S-THP-CTC-06 Investigator: Dr. Bill Johnson
 Project ID: DEC H 2015 US C41 A 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
Organization: Purdue University
Address: 915 West State Street **Phone No.:** 765-494-0891
City+State/Prov: West Lafayette **Mobile No.:** 410-596-9091
Postal Code: 47907 **E-mail:** jikley@purdue.edu

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

Cooperator/Landowner

Cooperator: Jay Young **Role:** Superintendent
Organization: Purdue University
Address 1: 8343 US 231 S
City: Lafayette **Phone No.:** 765-538-3422
State/Prov: IN **Fax No.:** 765-538-3423
Postal Code: 47909
Country: USA United States **E-mail:** jayyoung@purdue.edu

Crop Description

Crop 1: ZEAMX Zea mays **Corn**
Variety: DKC 62-08 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:** CIRAR Cirsium arvense
Common Name: Canada thistle
Pest 3 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: velvetleaf
Pest 4 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT2 **Treatments:** 10
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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Maintenance

No.	Date	Maintenance Product Name	Rate	Rate Unit
1.	5/2/2015	Dual	1.67	PT/A

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:	5/28/2015
Appl. Start Time:	15:00
Appl. Stop Time:	15:30
Application Method:	SPRAY
Application Timing:	POST
Application Placement:	BROADC
Applied By:	Jl
Air Temperature, Unit:	77 F
% Relative Humidity:	56
Wind Velocity, Unit:	5 MPH
Wind Direction:	E
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	73 F
Soil Moisture:	DRY
% Cloud Cover:	30

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMX BCOR
Stage Scale Used:	BBCH
Stage Majority, Percent:	35
Height, Unit:	9 IN
Height Minimum, Maximum:	8 10

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Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	AMBTR W
Stage Majority, Percent:	34G
Stage Minimum, Percent:	32G
Stage Maximum, Percent:	35G
Height, Unit:	5 IN
Height Minimum, Maximum:	4 6
Density, Unit:	75 YD2
Pest 2 Code, Type, Scale:	CIRAR W
Stage Majority, Percent:	30
Height, Unit:	5 IN
Height Minimum, Maximum:	4 6
Density, Unit:	20 YD2
Pest 3 Code, Type, Scale:	ABUTH W
Stage Majority, Percent:	15
Stage Minimum, Percent:	13
Stage Maximum, Percent:	17
Height, Unit:	3 IN
Height Minimum, Maximum:	2 4
Density, Unit:	10 YD2
Pest 4 Code, Type, Scale:	CHEAL W
Stage Majority, Percent:	32G
Stage Minimum, Percent:	31G
Stage Maximum, Percent:	33G
Height, Unit:	2 IN
Height Minimum, Maximum:	1 3
Density, Unit:	90 YD2

Application Equipment

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

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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 Rate Unit	Growth Stage	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check								101	205	306	408
2	ARMEZON MSO ULTRA N-PAK - AMS	2.8 LB/GAL 100 % 3.4 LBA/GAL	L L SL	L	0.75 fl oz/a 1 % v/v 2.5 lb ai/100 gal	4-6" WEE	A A A	0.7031 ml/mx 18.0 ml/mx 13.23 ml/mx	102	209	305	410
3	STATUS ACTIVATOR 90 - NIS N-PAK - AMS	61.1 % 90 % 3.4 LBA/GAL	WG L SL	WG	5 oz/a 0.25 % v/v 2.5 lb ai/100 gal	4-6" WEE	A A A	4.493 g/mx 4.5 ml/mx 13.23 ml/mx	103	206	303	404
4	ARMEZON STATUS PRIME OIL - COC N-PAK - AMS	2.8 LB/GAL 61.1 % 99.47 % 3.4 LBA/GAL	L WG L SL	L	0.5 fl oz/a 2.5 oz/a 1 % v/v 2.5 lb ai/100 gal	4-6" WEE	A A A A	0.4687 ml/mx 2.247 g/mx 18.0 ml/mx 13.23 ml/mx	104	203	310	407
5	ARMEZON STATUS PRIME OIL - COC N-PAK - AMS	2.8 LB/GAL 61.1 % 99.47 % 3.4 LBA/GAL	L WG L SL	L	0.65 fl oz/a 3.25 oz/a 1 % v/v 2.5 lb ai/100 gal	4-6" WEE	A A A A	0.6094 ml/mx 2.921 g/mx 18.0 ml/mx 13.23 ml/mx	105	201	307	409
6	ARMEZON STATUS PRIME OIL - COC N-PAK - AMS	2.8 LB/GAL 61.1 % 99.47 % 3.4 LBA/GAL	L WG L SL	L	0.75 fl oz/a 3.75 oz/a 1 % v/v 2.5 lb ai/100 gal	4-6" WEE	A A A A	0.7031 ml/mx 3.37 g/mx 18.0 ml/mx 13.23 ml/mx	106	208	309	405
7	CALLISTO PRIME OIL - COC N-PAK - AMS	4 LB/GAL 99.47 % 3.4 LBA/GAL	L L SL	L	3 fl oz/a 1 % v/v 2.5 lb ai/100 gal	4-6" WEE	A A A	2.812 ml/mx 18.0 ml/mx 13.23 ml/mx	107	202	308	401
8	DIFLEXX PRIME OIL - COC N-PAK - AMS	4.22 LB/GAL 99.47 % 3.4 LBA/GAL	SC L SL	SC	8 fl oz/a 1 % v/v 2.5 lb ai/100 gal	4-6" WEE	A A A	7.5 ml/mx 18.0 ml/mx 13.23 ml/mx	108	207	301	406
9	DIFLEXX PRIME OIL - COC N-PAK - AMS	4.22 LB/GAL 99.47 % 3.4 LBA/GAL	SC L SL	SC	12 fl oz/a 1 % v/v 2.5 lb ai/100 gal	4-6" WEE	A A A	11.25 ml/mx 18.0 ml/mx 13.23 ml/mx	109	210	304	402
10	DIFLEXX PRIME OIL - COC N-PAK - AMS	4.22 LB/GAL 99.47 % 3.4 LBA/GAL	SC L SL	SC	16 fl oz/a 1 % v/v 2.5 lb ai/100 gal	4-6" WEE	A A A	15.0 ml/mx 18.0 ml/mx 13.23 ml/mx	110	204	302	403

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
3.105	ml	ARMEZON	2.8	L	
22.498	ml	MSO ULTRA	100	L	
148.881	ml	N-PAK - AMS	3.4	SL	
16.289	g	STATUS	61.1	WG	
5.624	ml	ACTIVATOR 90 - NIS	90	L	
157.483	ml	PRIME OIL - COC	99.47	L	
3.516	ml	CALLISTO	4	L	
42.187	ml	DIFLEXX	4.22	SC	

* '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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Pest Type						W Weed AMBTR	W Weed ABUTH	W Weed CHEAL
Pest Code						Giant ragweed	velvetleaf	Common lambsqu>
Pest Name								
Crop Code	ZEAMX	ZEAMX	ZEAMX					
Crop Name	Corn	Corn	Corn					
Part Rated	PLOT C	PLOT C	PLOT C			PLOT P	PLOT P	PLOT P
Rating Date	6/5/2015	6/5/2015	6/5/2015			6/5/2015	6/5/2015	6/5/2015
Rating Type	PHYGEN	PHYSTU	BROKEN			CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%			%	%	%
Number of Subsamples	1	1	1			1	1	1
Days After First/Last Applic.	8 8	8 8	8 8			8 8	8 8	8 8
Trt-Eval Interval	8 DA-A	8 DA-A	8 DA-A			8 DA-A	8 DA-A	8 DA-A
Days After Emergence	27 DE-1	27 DE-1	27 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	1	2	3	4	5	6
1 Untreated Check		101	0	0	0	0	0	0
		205	0	0	0	0	0	0
		306	0	0	0	0	0	0
		408	0	0	0	0	0	0
		Mean =	0	0	0	0	0	0
2 ARMEZON	0.75 fl oz/a	A 102	0	0	0	60	83*	90*
MSO ULTRA	1 % v/v	A 209	0*	0*	0*	35	75	85
N-PAK - AMS	2.5 lb ai/100 gal	A 305	0	0	0	85	90	90*
		410	0	0	0	65	83*	95
		Mean =	0	0	0	61	83	90
3 STATUS	5 oz/a	A 103	0	0	0	70	30	40*
ACTIVATOR 90 - NIS	0.25 % v/v	A 206	0	0	0	80	50	40
N-PAK - AMS	2.5 lb ai/100 gal	A 303	0	0	0	70	30	50
		404	0	0	0	30	20	30
		Mean =	0	0	0	63	33	40
4 ARMEZON	0.5 fl oz/a	A 104	0	0	0	75	50	77*
STATUS	2.5 oz/a	A 203	5	5	0	80	80	90
PRIME OIL - COC	1 % v/v	A 310	5	5	0	85	57*	90
N-PAK - AMS	2.5 lb ai/100 gal	A 407	0	0	0	70*	40	50
		Mean =	3	3	0	78	57	77
5 ARMEZON	0.65 fl oz/a	A 105	0	0	0	75	70	48*
STATUS	3.25 oz/a	A 201	0	0	0	50	35	30
PRIME OIL - COC	1 % v/v	A 307	0	0	0	70	80	30
N-PAK - AMS	2.5 lb ai/100 gal	A 409	0	0	0	80	62*	85
		Mean =	0	0	0	69	62	48
6 ARMEZON	0.75 fl oz/a	A 106	3	0	0	80	75	67*
STATUS	3.75 oz/a	A 208	0*	0*	0*	65	50	35
PRIME OIL - COC	1 % v/v	A 309	0	0	0	80	85	95
N-PAK - AMS	2.5 lb ai/100 gal	A 405	0	0	0	65	70*	70
		Mean =	1	0	0	73	70	67
7 CALLISTO	3 fl oz/a	A 107	0	0	0	50	85	90*
PRIME OIL - COC	1 % v/v	A 202	0	0	0	30	90	90
N-PAK - AMS	2.5 lb ai/100 gal	A 308	0	0	0	35	88*	90
		401	0	0	0	35	88*	90*
		Mean =	0	0	0	38	88	90
8 DIFLEXX	8 fl oz/a	A 108	0	0	0	60	20*	30
PRIME OIL - COC	1 % v/v	A 207	0	0	0	50	30	30
N-PAK - AMS	2.5 lb ai/100 gal	A 301	5	5	0	70	20	50
		406	5	0	0	50*	10	20
		Mean =	3	1	0	58	20	33
9 DIFLEXX	12 fl oz/a	A 109	5	3	0	60	22*	50
PRIME OIL - COC	1 % v/v	A 210	10	0	0	50	30	40
N-PAK - AMS	2.5 lb ai/100 gal	A 304	5	5	0	85	20	60
		402	10	0	0	50	15	30
		Mean =	8	2	0	61	22	45

Purdue Weed Science

Pest Type					W Weed	W Weed	W Weed	
Pest Code					AMBTR	ABUTH	CHEAL	
Pest Name					Giant ragweed	velvetleaf	Common lambsqu>	
Crop Code	ZEAMX	ZEAMX	ZEAMX					
Crop Name	Corn	Corn	Corn					
Part Rated	PLOT C	PLOT C	PLOT C		PLOT P	PLOT P	PLOT P	
Rating Date	6/5/2015	6/5/2015	6/5/2015		6/5/2015	6/5/2015	6/5/2015	
Rating Type	PHYGEN	PHYSTU	BROKEN		CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%		%	%	%	
Number of Subsamples	1	1	1		1	1	1	
Days After First/Last Applic.	8 8	8 8	8 8		8 8	8 8	8 8	
Trit-Eval Interval	8 DA-A	8 DA-A	8 DA-A		8 DA-A	8 DA-A	8 DA-A	
Days After Emergence	27 DE-1	27 DE-1	27 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	
Trit Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
10 DIFLEXX	16 fl oz/a	A 110	15	5	0	80	28*	48*
PRIME OIL - COC	1 % v/v	A 204	5	5	0	70	35	65
N-PAK - AMS	2.5 lb ai/100 gal	A 302	10	5	0	80	28*	60
		403	15	5	0	50	20	20
		Mean =	11	5	0	70	28	48

Purdue Weed Science

Pest Type				W Weed		W Weed		W Weed		
Pest Code				AMBTR		ABUTH		CHEAL		
Pest Name				Giant ragweed		velvetleaf		Common lambsqu>		
Crop Code	ZEAMX	ZEAMX	ZEAMX							
Crop Name	Corn	Corn	Corn							
Part Rated	PLOT C	PLOT C	PLOT C	PLOT P		PLOT P		PLOT P		
Rating Date	6/10/2015	6/10/2015	6/10/2015	6/10/2015		6/10/2015		6/10/2015		
Rating Type	PHYGEN	PHYSTU	BROKEN	CONTRO		CONTRO		CONTRO		
Rating Unit	%	%	%	%		%		%		
Number of Subsamples	1	1	1	1		1		1		
Days After First/Last Applic.	13 13	13 13	13 13	13 13		13 13		13 13		
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A		13 DA-A		13 DA-A		
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	32 DE-1		32 DE-1		32 DE-1		
ARM Action Codes	P	P	P	P		P		P		
Number of Decimals	0	0	0	0		0		0		
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code Plot	7	8	9	10	11	12		
1 Untreated Check		101	0	0	0	0	0	0		
		205	0	0	0	0	0	0		
		306	0	0	0	0	0	0		
		408	0	0	0	0	0	0		
		Mean =	0	0	0	0	0	0		
2 ARMEZON	0.75 fl oz/a	A 102	0	0	0	85	98*	90*		
MSO ULTRA	1 % v/v	A 209	1*	0*	0*	50	100	100		
N-PAK - AMS	2.5 lb ai/100 gal	A 305	0	0	0	90	95	80		
		410	0	0	0	85*	98*	90*		
		Mean =	0	0	0	77	98	90		
3 STATUS	5 oz/a	A 103	0	0	0	60	30	30*		
ACTIVATOR 90 - NIS	0.25 % v/v	A 206	3	0	0	50	20	20		
N-PAK - AMS	2.5 lb ai/100 gal	A 303	0	0	0	50	30	40		
		404	0	0	0	80	20	30		
		Mean =	1	0	0	60	25	30		
4 ARMEZON	0.5 fl oz/a	A 104	5	0	0	80	100	80*		
STATUS	2.5 oz/a	A 203	3	0	0	90	80	100		
PRIME OIL - COC	1 % v/v	A 310	0	0	0	95	90*	90		
N-PAK - AMS	2.5 lb ai/100 gal	A 407	0	0	0	98*	90	50		
		Mean =	2	0	0	91	90	80		
5 ARMEZON	0.65 fl oz/a	A 105	8	3	0	90	70	55*		
STATUS	3.25 oz/a	A 201	0	0	0	95	95	100		
PRIME OIL - COC	1 % v/v	A 307	0	0	0	95	72*	30		
N-PAK - AMS	2.5 lb ai/100 gal	A 409	5	0	0	95	50	35		
		Mean =	3	1	0	94	72	55		
6 ARMEZON	0.75 fl oz/a	A 106	0	0	0	90	100	35*		
STATUS	3.75 oz/a	A 208	1*	0*	0*	75	62*	20		
PRIME OIL - COC	1 % v/v	A 309	0	0	0	95	35	35*		
N-PAK - AMS	2.5 lb ai/100 gal	A 405	0	0	0	95	50	50		
		Mean =	0	0	0	89	62	35		
7 CALLISTO	3 fl oz/a	A 107	0	0	0	35*	.	100*		
PRIME OIL - COC	1 % v/v	A 202	0	0	0	40	.	100*		
N-PAK - AMS	2.5 lb ai/100 gal	A 308	0	0	0	50	.	100		
		401	0	0	0	30	.	100*		
		Mean =	0	0	0	39	.	100		
8 DIFLEXX	8 fl oz/a	A 108	0	0	0	50	30	30		
PRIME OIL - COC	1 % v/v	A 207	5	0	0	35	30	30		
N-PAK - AMS	2.5 lb ai/100 gal	A 301	5	0	0	95	40	20		
		406	0	0	0	70*	20	35		
		Mean =	3	0	0	62	30	29		
9 DIFLEXX	12 fl oz/a	A 109	5	0	0	60	30	37*		
PRIME OIL - COC	1 % v/v	A 210	8	3	0	40	30	30		
N-PAK - AMS	2.5 lb ai/100 gal	A 304	5	0	0	95	30	30		
		402	0	0	0	90	15	50		
		Mean =	5	1	0	71	26	37		

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Pest Type				W Weed AMBTR	W Weed ABUTH	W Weed CHEAL		
Pest Code				Giant ragweed	velvetleaf	Common lambsqu>		
Pest Name								
Crop Code	ZEAMX	ZEAMX	ZEAMX					
Crop Name	Corn	Corn	Corn					
Part Rated	PLOT C	PLOT C	PLOT C	PLOT P	PLOT P	PLOT P		
Rating Date	6/10/2015	6/10/2015	6/10/2015	6/10/2015	6/10/2015	6/10/2015		
Rating Type	PHYGEN	PHYSTU	BROKEN	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	13 13	13 13	13 13	13 13	13 13	13 13		
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A		
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	32 DE-1	32 DE-1	32 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	7	8	9	10	11	12
10 DIFLEXX	16 fl oz/a	A 110	5	0	0	75	35*	30*
PRIME OIL - COC	1 % v/v	A 204	5	0	0	70	40	30
N-PAK - AMS	2.5 lb ai/100 gal	A 302	10	0	0	85	30	30
		403	5	0	0	95	35*	30*
		Mean =	6	0	0	81	35	30

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Pest Type				W Weed	W Weed	W Weed		
Pest Code				AMBTR	ABUTH	CHEAL		
Pest Name				Giant ragweed	velvetleaf	Common lambsqu>		
Crop Code	ZEAMX	ZEAMX	ZEAMX					
Crop Name	Corn	Corn	Corn					
Part Rated	PLOT C	PLOT C	PLOT C	PLOT P	PLOT P	PLOT P		
Rating Date	6/19/2015	6/19/2015	6/19/2015	6/19/2015	6/19/2015	6/19/2015		
Rating Type	PHYGEN	PHYSTU	BROKEN	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	22 22	22 22	22 22	22 22	22 22	22 22		
Trt-Eval Interval	22 DA-A	22 DA-A	22 DA-A	22 DA-A	22 DA-A	22 DA-A		
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	41 DE-1	41 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	13	14	15	16	17	18
1 Untreated Check		101	0	0	0	0	0	0
		205	0	0	0	0	0	0
		306	0	0	0	0	0	0
		408	0	0	0	0	0	0
		Mean =	0	0	0	0	0	0
2 ARMEZON	0.75 fl oz/a	A 102	0	0	0	80	100*	98*
MSO ULTRA	1 % v/v	A 209	0	0	0	70	100*	100
N-PAK - AMS	2.5 lb ai/100 gal	A 305	0	0	0	90	100	95
		410	0	0	0	80*	100*	98*
		Mean =	0	0	0	80	100	98
3 STATUS	5 oz/a	A 103	5	5	0	65	50	83*
ACTIVATOR 90 - NIS	0.25 % v/v	A 206	0	0	0	90	60	50
N-PAK - AMS	2.5 lb ai/100 gal	A 303	0	0	0	90	50	100
		404	1	0	1	95	100	100
		Mean =	2	1	0	85	65	83
4 ARMEZON	0.5 fl oz/a	A 104	5	5	0	50	60	100*
STATUS	2.5 oz/a	A 203	5	5	0	90	100	100
PRIME OIL - COC	1 % v/v	A 310	0	0	0	70*	87*	100
N-PAK - AMS	2.5 lb ai/100 gal	A 407	0	0	0	70*	100	100
		Mean =	3	3	0	70	87	100
5 ARMEZON	0.65 fl oz/a	A 105	0	0	0	60	95	100*
STATUS	3.25 oz/a	A 201	0	0	0	95	90	100
PRIME OIL - COC	1 % v/v	A 307	5	5	0	99	95*	100
N-PAK - AMS	2.5 lb ai/100 gal	A 409	0	0	0	85*	100	100
		Mean =	1	1	0	85	95	100
6 ARMEZON	0.75 fl oz/a	A 106	5	5	0	83*	100*	100*
STATUS	3.75 oz/a	A 208	0	0	0	85	100	100
PRIME OIL - COC	1 % v/v	A 309	0	0	0	80	100	100*
N-PAK - AMS	2.5 lb ai/100 gal	A 405	0	0	0	83*	100	100
		Mean =	1	1	0	83	100	100
7 CALLISTO	3 fl oz/a	A 107	0	0	0	85	100	100*
PRIME OIL - COC	1 % v/v	A 202	0	0	0	65	100*	100*
N-PAK - AMS	2.5 lb ai/100 gal	A 308	0	0	0	70	100	100
		401	0	0	0	73*	100*	100
		Mean =	0	0	0	73	100	100
8 DIFLEXX	8 fl oz/a	A 108	0	0	0	100	27*	67*
PRIME OIL - COC	1 % v/v	A 207	0	0	0	90	30	30
N-PAK - AMS	2.5 lb ai/100 gal	A 301	0	0	0	80	20	90
		406	0	0	0	90*	30	80
		Mean =	0	0	0	90	27	67
9 DIFLEXX	12 fl oz/a	A 109	5	5	0	95	45*	83*
PRIME OIL - COC	1 % v/v	A 210	0	0	0	95	50	50
N-PAK - AMS	2.5 lb ai/100 gal	A 304	5	5	0	100	50	100
		402	0	0	0	95	35	100
		Mean =	3	3	0	96	45	83

Purdue Weed Science

Pest Type				W Weed AMBTR	W Weed ABUTH	W Weed CHEAL		
Pest Code				Giant ragweed	velvetleaf	Common lambsqu>		
Pest Name								
Crop Code	ZEAMX	ZEAMX	ZEAMX					
Crop Name	Corn	Corn	Corn					
Part Rated	PLOT C	PLOT C	PLOT C	PLOT P	PLOT P	PLOT P		
Rating Date	6/19/2015	6/19/2015	6/19/2015	6/19/2015	6/19/2015	6/19/2015		
Rating Type	PHYGEN	PHYSTU	BROKEN	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	22 22	22 22	22 22	22 22	22 22	22 22		
Trit-Eval Interval	22 DA-A	22 DA-A	22 DA-A	22 DA-A	22 DA-A	22 DA-A		
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	41 DE-1	41 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trit Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	13	14	15	16	17	18
10 DIFLEXX	16 fl oz/a	A 110	5	5	0	95	60*	98*
PRIME OIL - COC	1 % v/v	A 204	5	5	0	95	60	100
N-PAK - AMS	2.5 lb ai/100 gal	A 302	5	5	0	95	60*	95
		403	0	0	0	95	60*	98*
		Mean =	4	4	0	95	60	98

Purdue Weed Science

Pest Type				W Weed		W Weed		W Weed		
Pest Code				AMBTR		ABUTH		CHEAL		
Pest Name				Giant ragweed		velvetleaf		Common lambsqu>		
Crop Code	ZEAMX	ZEAMX	ZEAMX							
Crop Name	Corn	Corn	Corn							
Part Rated	PLOT C	PLOT C	PLOT C	PLOT P		PLOT P		PLOT P		
Rating Date	7/10/2015	7/10/2015	7/10/2015	7/10/2015		7/10/2015		7/10/2015		
Rating Type	PHYGEN	PHYSTU	BROKEN	CONTRO		CONTRO		CONTRO		
Rating Unit	%	%	%	%		%		%		
Number of Subsamples	1	1	1	1		1		1		
Days After First/Last Applic.	43 43	43 43	43 43	43 43		43 43		43 43		
Trt-Eval Interval	43 DA-A	43 DA-A	43 DA-A	43 DA-A		43 DA-A		43 DA-A		
Days After Emergence	62 DE-1	62 DE-1	62 DE-1	62 DE-1		62 DE-1		62 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	19	20	21	22	23	24		
1 Untreated Check		101	0	0	0	0	0	0		
		205	0	0	0	0	0	0		
		306	0	0	0	0	0	0		
		408	0	0	0	0	0	0		
		Mean =	0	0	0	0	0	0		
2 ARMEZON	0.75 fl oz/a	A 102	0	0	0	95	95	100*		
MSO ULTRA	1 % v/v	A 209	0	0	0	75	98*	100		
N-PAK - AMS	2.5 lb ai/100 gal	A 305	0	0	0	95	100	100*		
		410	0	0	0	95*	98*	100*		
		Mean =	0	0	0	90	98	100		
3 STATUS	5 oz/a	A 103	0	0	0	95	85	93*		
ACTIVATOR 90 - NIS	0.25 % v/v	A 206	0	0	0	80	100	80		
N-PAK - AMS	2.5 lb ai/100 gal	A 303	0	0	0	95	70	100		
		404	0	0	0	95	100	100		
		Mean =	0	0	0	91	89	93		
4 ARMEZON	0.5 fl oz/a	A 104	0	0	0	70	100	90*		
STATUS	2.5 oz/a	A 203	0	0	0	85	100	100		
PRIME OIL - COC	1 % v/v	A 310	0	0	0	92	100*	100		
N-PAK - AMS	2.5 lb ai/100 gal	A 407	0	0	0	100	100	70		
		Mean =	0	0	0	87	100	90		
5 ARMEZON	0.65 fl oz/a	A 105	0	0	0	80	100	100*		
STATUS	3.25 oz/a	A 201	0	0	0	95	100	100		
PRIME OIL - COC	1 % v/v	A 307	0	0	0	85	100*	100		
N-PAK - AMS	2.5 lb ai/100 gal	A 409	0	0	0	95	100*	99		
		Mean =	0	0	0	89	100	100		
6 ARMEZON	0.75 fl oz/a	A 106	0	0	0	96*	100*	95*		
STATUS	3.75 oz/a	A 208	0	0	0	99	100	90		
PRIME OIL - COC	1 % v/v	A 309	0	0	0	90	100	95*		
N-PAK - AMS	2.5 lb ai/100 gal	A 405	0	0	0	100	100*	100		
		Mean =	0	0	0	96	100	95		
7 CALLISTO	3 fl oz/a	A 107	0	0	0	95	100	100*		
PRIME OIL - COC	1 % v/v	A 202	0	0	0	70	100*	100*		
N-PAK - AMS	2.5 lb ai/100 gal	A 308	0	0	0	80	100*	100		
		401	0	0	0	100	100*	100*		
		Mean =	0	0	0	86	100	100		
8 DIFLEXX	8 fl oz/a	A 108	0	0	0	95	80	98*		
PRIME OIL - COC	1 % v/v	A 207	0	0	0	95	85	100		
N-PAK - AMS	2.5 lb ai/100 gal	A 301	0	0	0	90	80	100		
		406	0	0	0	100*	95	95		
		Mean =	0	0	0	95	85	98		
9 DIFLEXX	12 fl oz/a	A 109	0	0	0	99	77*	100*		
PRIME OIL - COC	1 % v/v	A 210	0	0	0	80	60	100		
N-PAK - AMS	2.5 lb ai/100 gal	A 304	0	0	0	100	90	100		
		402	0	0	0	90	80	100		
		Mean =	0	0	0	92	77	100		

Purdue Weed Science

Pest Type				W Weed AMBTR	W Weed ABUTH	W Weed CHEAL		
Pest Code				Giant ragweed	velvetleaf	Common lambsqu>		
Pest Name								
Crop Code	ZEAMX	ZEAMX	ZEAMX					
Crop Name	Corn	Corn	Corn					
Part Rated	PLOT C	PLOT C	PLOT C	PLOT P	PLOT P	PLOT P		
Rating Date	7/10/2015	7/10/2015	7/10/2015	7/10/2015	7/10/2015	7/10/2015		
Rating Type	PHYGEN	PHYSTU	BROKEN	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	43 43	43 43	43 43	43 43	43 43	43 43		
Trit-Eval Interval	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A		
Days After Emergence	62 DE-1	62 DE-1	62 DE-1	62 DE-1	62 DE-1	62 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trit Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	19	20	21	22	23	24
10 DIFLEXX	16 fl oz/a	A 110	0	0	0	95	99*	100*
PRIME OIL - COC	1 % v/v	A 204	0	0	0	95	99	100
N-PAK - AMS	2.5 lb ai/100 gal	A 302	0	0	0	97	99*	100
		403	0	0	0	95	99*	100*
		Mean =	0	0	0	96	99	100

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.				119 119	119 119	119 119		
Trt-Eval Interval				119 DA-A	119 DA-A	119 DA-A		
Days After Emergence				138 DE-1	138 DE-1	138 DE-1		
ARM Action Codes						TY1		
Number of Decimals				2	2	1		
Trt No.	Treatment Name	Rate Rate Unit	Appl Code Plot	25	26	27		
1	Untreated Check		101	20.63	19.97	121.6		
			205	28.75	19.86	169.7		
			306	28.70	20.41	168.2		
			408	36.06	20.24	211.8		
			Mean =	28.53	20.12	167.8		
2	ARMEZON	0.75 fl oz/a	A 102	47.94	20.28	281.4		
			MSO ULTRA	1 % v/v	A 209	43.21	19.33	256.7
			N-PAK - AMS	2.5 lb ai/100 gal	A 305	43.64	20.55	255.3
			410	43.42	20.54	254.1		
			Mean =	44.55	20.18	261.9		
3	STATUS	5 oz/a	A 103	47.78	20.07	281.2		
			ACTIVATOR 90 - NIS	0.25 % v/v	A 206	45.14	19.58	267.4
			N-PAK - AMS	2.5 lb ai/100 gal	A 303	46.97	20.40	275.3
			404	45.09	20.06	265.5		
			Mean =	46.24	20.03	272.3		
4	ARMEZON	0.5 fl oz/a	A 104	41.70	20.16	245.2		
			STATUS	2.5 oz/a	A 203	44.77	20.22	263.0
			PRIME OIL - COC	1 % v/v	A 310	41.70	20.60	243.9
			N-PAK - AMS	2.5 lb ai/100 gal	A 407	43.53	19.74	257.3
			Mean =	42.93	20.18	252.3		
5	ARMEZON	0.65 fl oz/a	A 105	45.36	19.88	267.6		
			STATUS	3.25 oz/a	A 201	42.99	20.42	252.0
			PRIME OIL - COC	1 % v/v	A 307	42.29	20.35	248.1
			N-PAK - AMS	2.5 lb ai/100 gal	A 409	44.93	20.67	262.5
			Mean =	43.89	20.33	257.5		
6	ARMEZON	0.75 fl oz/a	A 106	44.93	19.33	266.9		
			STATUS	3.75 oz/a	A 208	44.50	19.90	262.5
			PRIME OIL - COC	1 % v/v	A 309	41.70	20.74	243.4
			N-PAK - AMS	2.5 lb ai/100 gal	A 405	44.77	19.86	264.2
			Mean =	43.97	19.96	259.3		
7	CALLISTO	3 fl oz/a	A 107	48.31	19.41	286.7		
			PRIME OIL - COC	1 % v/v	A 202	42.56	20.80	248.3
			N-PAK - AMS	2.5 lb ai/100 gal	A 308	44.12	20.05	259.8
			401	42.83	20.76	249.9		
			Mean =	44.46	20.25	261.2		
8	DIFLEXX	8 fl oz/a	A 108	45.57	19.88	268.9		
			PRIME OIL - COC	1 % v/v	A 207	44.44	20.08	261.6
			N-PAK - AMS	2.5 lb ai/100 gal	A 301	46.70	20.11	274.8
			406	45.57	20.24	267.7		
			Mean =	45.57	20.08	268.2		
9	DIFLEXX	12 fl oz/a	A 109	44.23	19.90	260.9		
			PRIME OIL - COC	1 % v/v	A 210	43.15	19.55	255.7
			N-PAK - AMS	2.5 lb ai/100 gal	A 304	45.04	20.34	264.2
			402	43.75	20.87	254.9		
			Mean =	44.04	20.17	258.9		

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.		119 119	119 119	119 119		
Trt-Eval Interval		119 DA-A	119 DA-A	119 DA-A		
Days After Emergence		138 DE-1	138 DE-1	138 DE-1		
ARM Action Codes				TY1		
Number of Decimals		2	2	1		
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	25	26	27	
10 DIFLEXX	16 fl oz/a	A 110	42.29	19.47	250.8	
PRIME OIL - COC	1 % v/v	A 204	42.94	20.06	252.8	
N-PAK - AMS	2.5 lb ai/100 gal	A 302	45.41	20.45	266.0	
		403	41.22	19.38	244.7	
		Mean =	42.97	19.84	253.6	

Purdue Weed Science

Armezon Status Combinations

Trial ID: 15S-THP-CTC-06 Location: TPAC Trial Year: 2015
 Protocol ID: 15S-THP-CTC-06 Investigator: Dr. Bill Johnson
 Project ID: DEC H 2015 US C41 A Study Director: Joe Ikley
 Sponsor Contact: BASF - Gery Welker

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

Pest Code
 AMBTR, Ambrosia trifida, = US
 ABUTH, Abutilon theophrasti, = US
 CHEAL, Chenopodium album, = 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
 PHYSTU = phytotoxicity - stunting
 BROKEN = broken
 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 = $6.222857 * [25] * (100 - [26]) / 84.5$

Pest Type				W Weed AMBTR Giant ragweed	W Weed ABUTH velvetleaf	W Weed CHEAL Common lambsqu>			
Pest Code									
Pest Name									
Crop Code	ZEAMX	ZEAMX	ZEAMX				ZEAMX		
Crop Name	Corn	Corn	Corn				Corn		
Part Rated	PLOT C	PLOT C	PLOT C	PLOT P	PLOT P	PLOT P	PLOT C		
Rating Date	6/5/2015	6/5/2015	6/5/2015	6/5/2015	6/5/2015	6/5/2015	6/10/2015		
Rating Type	PHYGEN	PHYSTU	BROKEN	CONTRO	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%	%	%	%	%	%	
Number of Subsamples	1	1	1	1	1	1	1	1	
Days After First/Last Applic.	8 8	8 8	8 8	8 8	8 8	8 8	13 13	13 13	
Trt-Eval Interval	8 DA-A	8 DA-A	8 DA-A	8 DA-A	8 DA-A	8 DA-A	13 DA-A	13 DA-A	
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	32 DE-1	32 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 Treatment	Rate	Appl							
No. Name	Rate Unit	Code	1	2	3	4	5	6	7
1 Untreated Check			0 c	0 c	0 a	0 d	0 e	0 d	0 c
2 ARMEZON	0.75 fl oz/a	A	0 c	0 c	0 a	61 ab	83 ab	90 a	0 c
MSO ULTRA	1 % v/v	A							
N-PAK - AMS	2.5 lb ai/100 gal	A							
3 STATUS	5 oz/a	A	0 c	0 c	0 a	63 ab	33 d	40 bc	1 c
ACTIVATOR 90 - NIS	0.25 % v/v	A							
N-PAK - AMS	2.5 lb ai/100 gal	A							
4 ARMEZON	0.5 fl oz/a	A	3 c	3 b	0 a	78 a	57 c	77 a	2 bc
STATUS	2.5 oz/a	A							
PRIME OIL - COC	1 % v/v	A							
N-PAK - AMS	2.5 lb ai/100 gal	A							
5 ARMEZON	0.65 fl oz/a	A	0 c	0 c	0 a	69 ab	62 bc	48 bc	3 abc
STATUS	3.25 oz/a	A							
PRIME OIL - COC	1 % v/v	A							
N-PAK - AMS	2.5 lb ai/100 gal	A							
6 ARMEZON	0.75 fl oz/a	A	1 c	0 c	0 a	73 ab	70 abc	67 ab	0 c
STATUS	3.75 oz/a	A							
PRIME OIL - COC	1 % v/v	A							
N-PAK - AMS	2.5 lb ai/100 gal	A							

Purdue Weed Science

Pest Type				W Weed AMBTR Giant ragweed	W Weed ABUTH velvetleaf	W Weed CHEAL Common lambsqu>				
Pest Code										
Pest Name										
Crop Code	ZEAMX	ZEAMX	ZEAMX				ZEAMX			
Crop Name	Corn	Corn	Corn				Corn			
Part Rated	PLOT C	PLOT C	PLOT C	PLOT P	PLOT P	PLOT P	PLOT C			
Rating Date	6/5/2015	6/5/2015	6/5/2015	6/5/2015	6/5/2015	6/5/2015	6/10/2015			
Rating Type	PHYGEN	PHYSTU	BROKEN	CONTRO	CONTRO	CONTRO	PHYGEN			
Rating Unit	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1			
Days After First/Last Applic.	8 8	8 8	8 8	8 8	8 8	8 8	13 13			
Trt-Eval Interval	8 DA-A	8 DA-A	8 DA-A	8 DA-A	8 DA-A	8 DA-A	13 DA-A			
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	32 DE-1			
ARM Action Codes	P	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0	0			
Trt No.	Treatment Name	Rate Rate Unit	Appl Code	1	2	3	4	5	6	7
7	CALLISTO PRIME OIL - COC N-PAK - AMS	3 fl oz/a 1 % v/v 2.5 lb ai/100 gal A	A A A	0 c	0 c	0 a	38 c	88 a	90 a	0 c
8	DIFLEXX PRIME OIL - COC N-PAK - AMS	8 fl oz/a 1 % v/v 2.5 lb ai/100 gal A	A A A	3 c	1 bc	0 a	58 b	20 de	33 c	3 bc
9	DIFLEXX PRIME OIL - COC N-PAK - AMS	12 fl oz/a 1 % v/v 2.5 lb ai/100 gal A	A A A	8 b	2 bc	0 a	61 ab	22 d	45 bc	5 ab
10	DIFLEXX PRIME OIL - COC N-PAK - AMS	16 fl oz/a 1 % v/v 2.5 lb ai/100 gal A	A A A	11 a	5 a	0 a	70 ab	28 d	48 bc	6 a
LSD P=.05				3.5	2.0	.	17.6	21.3	28.0	3.4
Standard Deviation				2.4	1.4	0.0	12.1	14.2	18.9	2.3
CV				97.95	130.33	0.0	21.21	30.84	35.11	118.38
Bartlett's X2				2.365	0.096	0.0	7.052	5.086	5.856	2.681
P(Bartlett's X2)				0.669	0.953	.	0.531	0.748	0.557	0.749
Skewness				1.7077*	1.3523*	.	-1.0697*	0.2669	0.0487	1.1166*
Kurtosis				2.1838*	-0.1259	.	0.3359	-1.2733	-1.0713	0.1179
Replicate F				0.286	2.152	0.000	4.318	0.731	0.873	0.861
Replicate Prob(F)				0.8353	0.1189	1.0000	0.0139	0.5483	0.4734	0.4743
Treatment F				10.381	5.718	0.000	14.244	17.438	8.719	3.465
Treatment Prob(F)				0.0001	0.0003	1.0000	0.0001	0.0001	0.0001	0.0067

Purdue Weed Science

Pest Type			W Weed	W Weed	W Weed						
Pest Code			AMBTR	ABUTH	CHEAL						
Pest Name			Giant ragweed	velvetleaf	Common lambsqu>						
Crop Code	ZEAMX	ZEAMX					ZEAMX	ZEAMX			
Crop Name	Corn	Corn					Corn	Corn			
Part Rated	PLOT C	PLOT C	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C	PLOT C	PLOT C		
Rating Date	6/10/2015	6/10/2015	6/10/2015	6/10/2015	6/10/2015	6/19/2015	6/19/2015	6/19/2015	6/19/2015		
Rating Type	PHYSTU	BROKEN	CONTRO	CONTRO	CONTRO	PHYGEN	PHYSTU	PHYSTU	PHYSTU		
Rating Unit	%	%	%	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1	1	1	1		
Days After First/Last Applic.	13 13	13 13	13 13	13 13	13 13	22 22	22 22	22 22	22 22		
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	22 DA-A	22 DA-A	22 DA-A	22 DA-A		
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	32 DE-1	32 DE-1	41 DE-1	41 DE-1	41 DE-1	41 DE-1		
ARM Action Codes	P	P	P	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0	0	0	0		
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	8	9	10	11	12	13	14
1	Untreated Check				0 a	0 a	0 f	0 e	0 d	0 a	0 a
2	ARMEZON MSO ULTRA N-PAK - AMS	0.75 fl oz/a 1 % v/v 2.5 lb ai/100 gal	A A A		0 a	0 a	77 a-d	98 a	90 a	0 a	0 a
3	STATUS ACTIVATOR 90 - NIS N-PAK - AMS	5 oz/a 0.25 % v/v 2.5 lb ai/100 gal	A A A		0 a	0 a	60 d	25 d	30 c	2 a	1 a
4	ARMEZON STATUS PRIME OIL - COC N-PAK - AMS	0.5 fl oz/a 2.5 oz/a 1 % v/v 2.5 lb ai/100 gal	A A A A		0 a	0 a	91 a	90 ab	80 ab	3 a	3 a
5	ARMEZON STATUS PRIME OIL - COC N-PAK - AMS	0.65 fl oz/a 3.25 oz/a 1 % v/v 2.5 lb ai/100 gal	A A A A		1 a	0 a	94 a	72 bc	55 bc	1 a	1 a
6	ARMEZON STATUS PRIME OIL - COC N-PAK - AMS	0.75 fl oz/a 3.75 oz/a 1 % v/v 2.5 lb ai/100 gal	A A A A		0 a	0 a	89 ab	62 c	35 c	1 a	1 a

Purdue Weed Science

Pest Type			W Weed	W Weed	W Weed				
Pest Code			AMBTR	ABUTH	CHEAL				
Pest Name			Giant ragweed	velvetleaf	Common lambsqu>				
Crop Code	ZEAMX	ZEAMX					ZEAMX	ZEAMX	
Crop Name	Corn	Corn					Corn	Corn	
Part Rated	PLOT C	PLOT C	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C	PLOT C	
Rating Date	6/10/2015	6/10/2015	6/10/2015	6/10/2015	6/10/2015	6/19/2015	6/19/2015	6/19/2015	
Rating Type	PHYSTU	BROKEN	CONTRO	CONTRO	CONTRO	PHYGEN	PHYSTU	PHYSTU	
Rating Unit	%	%	%	%	%	%	%	%	
Number of Subsamples	1	1	1	1	1	1	1	1	
Days After First/Last Applic.	13 13	13 13	13 13	13 13	13 13	22 22	22 22	22 22	
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	22 DA-A	22 DA-A	22 DA-A	
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	32 DE-1	32 DE-1	41 DE-1	41 DE-1	41 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 Treatment	Rate	Appl	8	9	10	11	12	13	14
No. Name	Rate Unit	Code							
7 CALLISTO	3 fl oz/a	A	0 a	0 a	39 e		100 a	0 a	0 a
PRIME OIL - COC	1 % v/v	A							
N-PAK - AMS	2.5 lb ai/100 gal	A							
8 DIFLEXX	8 fl oz/a	A	0 a	0 a	62 cd	30 d	29 cd	0 a	0 a
PRIME OIL - COC	1 % v/v	A							
N-PAK - AMS	2.5 lb ai/100 gal	A							
9 DIFLEXX	12 fl oz/a	A	1 a	0 a	71 bcd	26 d	37 c	3 a	3 a
PRIME OIL - COC	1 % v/v	A							
N-PAK - AMS	2.5 lb ai/100 gal	A							
10 DIFLEXX	16 fl oz/a	A	0 a	0 a	81 abc	35 d	30 c	4 a	4 a
PRIME OIL - COC	1 % v/v	A							
N-PAK - AMS	2.5 lb ai/100 gal	A							
LSD P=.05			1.0	.	19.0	20.7	29.7	2.7	2.7
Standard Deviation			0.7	0.0	13.0	13.8	19.6	1.9	1.9
CV			435.58	0.0	19.54	28.51	40.35	145.7	148.07
Bartlett's X2			0.0	0.0	15.616	13.657	8.625	0.198	0.16
P(Bartlett's X2)			.	.	0.048*	0.058	0.196	0.999	0.999
Skewness			4.1735*	.	-0.95*	0.6066	0.7588	1.1838*	1.2002*
Kurtosis			16.2731*	.	-0.1541	-0.8604	-0.4326	-0.6122	-0.5917
Replicate F			0.711	0.000	5.642	1.399	0.274	2.905	3.162
Replicate Prob(F)			0.5545	1.0000	0.0048	0.2774	0.8432	0.0529	0.0407
Treatment F			0.771	0.000	19.630	22.834	10.611	2.020	2.027
Treatment Prob(F)			0.6441	1.0000	0.0001	0.0001	0.0001	0.0765	0.0754

Purdue Weed Science

Pest Type		W Weed	W Weed	W Weed							
Pest Code		AMBTR	ABUTH	CHEAL							
Pest Name		Giant ragweed	velvetleaf	Common lambsqu>							
Crop Code	ZEAMX				ZEAMX	ZEAMX	ZEAMX				
Crop Name	Corn				Corn	Corn	Corn				
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C	PLOT C				
Rating Date	6/19/2015	6/19/2015	6/19/2015	6/19/2015	7/10/2015	7/10/2015	7/10/2015				
Rating Type	BROKEN	CONTRO	CONTRO	CONTRO	PHYGEN	PHYSTU	BROKEN				
Rating Unit	%	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1	1				
Days After First/Last Applic.	22 22	22 22	22 22	22 22	43 43	43 43	43 43				
Trt-Eval Interval	22 DA-A	22 DA-A	22 DA-A	22 DA-A	43 DA-A	43 DA-A	43 DA-A				
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	62 DE-1	62 DE-1	62 DE-1				
ARM Action Codes	P	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0	0				
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	15	16	17	18	19	20	21
1	Untreated Check				0 a	0 d	0 d	0 c	0 a	0 a	0 a
2	ARMEZON MSO ULTRA N-PAK - AMS	0.75 fl oz/a 1 % v/v 2.5 lb ai/100 gal	A A A		0 a	80 abc	100 a	98 a	0 a	0 a	0 a
3	STATUS ACTIVATOR 90 - NIS N-PAK - AMS	5 oz/a 0.25 % v/v 2.5 lb ai/100 gal	A A A		0 a	85 abc	65 b	83 ab	0 a	0 a	0 a
4	ARMEZON STATUS PRIME OIL - COC N-PAK - AMS	0.5 fl oz/a 2.5 oz/a 1 % v/v 2.5 lb ai/100 gal	A A A A		0 a	70 c	87 a	100 a	0 a	0 a	0 a
5	ARMEZON STATUS PRIME OIL - COC N-PAK - AMS	0.65 fl oz/a 3.25 oz/a 1 % v/v 2.5 lb ai/100 gal	A A A A		0 a	85 abc	95 a	100 a	0 a	0 a	0 a
6	ARMEZON STATUS PRIME OIL - COC N-PAK - AMS	0.75 fl oz/a 3.75 oz/a 1 % v/v 2.5 lb ai/100 gal	A A A A		0 a	83 abc	100 a	100 a	0 a	0 a	0 a

Purdue Weed Science

Pest Type		W Weed	W Weed	W Weed							
Pest Code		AMBTR	ABUTH	CHEAL							
Pest Name		Giant ragweed	velvetleaf	Common lambsqu							
Crop Code	ZEAMX				ZEAMX	ZEAMX	ZEAMX				
Crop Name	Corn				Corn	Corn	Corn				
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C	PLOT C				
Rating Date	6/19/2015	6/19/2015	6/19/2015	6/19/2015	7/10/2015	7/10/2015	7/10/2015				
Rating Type	BROKEN	CONTRO	CONTRO	CONTRO	PHYGEN	PHYSTU	BROKEN				
Rating Unit	%	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1	1				
Days After First/Last Applic.	22 22	22 22	22 22	22 22	43 43	43 43	43 43				
Trt-Eval Interval	22 DA-A	22 DA-A	22 DA-A	22 DA-A	43 DA-A	43 DA-A	43 DA-A				
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	62 DE-1	62 DE-1	62 DE-1				
ARM Action Codes	P	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0	0				
Trt No.	Treatment Name	Rate	Unit	Appl Code	15	16	17	18	19	20	21
7	CALLISTO	3 fl oz/a		A	0 a	73 bc	100 a	100 a	0 a	0 a	0 a
	PRIME OIL - COC	1 % v/v		A							
	N-PAK - AMS	2.5 lb ai/100 gal		A							
8	DIFLEXX	8 fl oz/a		A	0 a	90 ab	27 c	67 b	0 a	0 a	0 a
	PRIME OIL - COC	1 % v/v		A							
	N-PAK - AMS	2.5 lb ai/100 gal		A							
9	DIFLEXX	12 fl oz/a		A	0 a	96 a	45 bc	83 ab	0 a	0 a	0 a
	PRIME OIL - COC	1 % v/v		A							
	N-PAK - AMS	2.5 lb ai/100 gal		A							
10	DIFLEXX	16 fl oz/a		A	0 a	95 a	60 b	98 a	0 a	0 a	0 a
	PRIME OIL - COC	1 % v/v		A							
	N-PAK - AMS	2.5 lb ai/100 gal		A							
LSD P=.05					0.2	17.5	20.7	25.5	.	.	.
Standard Deviation					0.2	11.8	13.6	16.8	0.0	0.0	0.0
CV					632.46	15.61	20.09	20.34	0.0	0.0	0.0
Bartlett's X2					0.0	11.186	7.584	5.681	0.0	0.0	0.0
P(Bartlett's X2)					.	0.131	0.108	0.224	.	.	.
Skewness					6.3246*	-1.7405*	-0.419	-1.4161*	.	.	.
Kurtosis					40.0*	1.9169*	-1.252	0.3764	.	.	.
Replicate F					1.000	0.636	0.777	1.705	0.000	0.000	0.000
Replicate Prob(F)					0.4079	0.6007	0.5263	0.2117	1.0000	1.0000	1.0000
Treatment F					1.000	22.287	26.519	13.675	0.000	0.000	0.000
Treatment Prob(F)					0.4635	0.0001	0.0001	0.0001	1.0000	1.0000	1.0000

Purdue Weed Science

Pest Type	W Weed	W Weed	W Weed					
Pest Code	AMBTR	ABUTH	CHEAL					
Pest Name	Giant ragweed	velvetleaf	Common lambsqu>					
Crop Code				ZEAMX	ZEAMX	ZEAMX		
Crop Name				Corn	Corn	Corn		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C	PLOT C		
Rating Date	7/10/2015	7/10/2015	7/10/2015	9/24/2015	9/24/2015	9/24/2015		
Rating Type	CONTRO	CONTRO	CONTRO	YIELD	MOICON	YIELD		
Rating Unit	%	%	%	lb/plot	%	BU		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	43 43	43 43	43 43	119 119	119 119	119 119		
Trt-Eval Interval	43 DA-A	43 DA-A	43 DA-A	119 DA-A	119 DA-A	119 DA-A		
Days After Emergence	62 DE-1	62 DE-1	62 DE-1	138 DE-1	138 DE-1	138 DE-1		
ARM Action Codes	P	P	P			TY1		
Number of Decimals	0	0	0	2	2	1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	22	23	24	25	26	27
1 Untreated Check			0 b	0 d	0 b	28.53 b	20.12 a	167.8 b
2 ARMEZON	0.75 fl oz/a	A	90 a	98 ab	100 a	44.55 a	20.18 a	261.9 a
MSO ULTRA	1 % v/v	A						
N-PAK - AMS	2.5 lb ai/100 gal	A						
3 STATUS	5 oz/a	A	91 a	89 abc	93 a	46.24 a	20.03 a	272.3 a
ACTIVATOR 90 - NIS	0.25 % v/v	A						
N-PAK - AMS	2.5 lb ai/100 gal	A						
4 ARMEZON	0.5 fl oz/a	A	87 a	100 a	90 a	42.93 a	20.18 a	252.3 a
STATUS	2.5 oz/a	A						
PRIME OIL - COC	1 % v/v	A						
N-PAK - AMS	2.5 lb ai/100 gal	A						
5 ARMEZON	0.65 fl oz/a	A	89 a	100 a	100 a	43.89 a	20.33 a	257.5 a
STATUS	3.25 oz/a	A						
PRIME OIL - COC	1 % v/v	A						
N-PAK - AMS	2.5 lb ai/100 gal	A						
6 ARMEZON	0.75 fl oz/a	A	96 a	100 a	95 a	43.97 a	19.96 a	259.3 a
STATUS	3.75 oz/a	A						
PRIME OIL - COC	1 % v/v	A						
N-PAK - AMS	2.5 lb ai/100 gal	A						

Purdue Weed Science

Pest Type	W Weed	W Weed	W Weed					
Pest Code	AMBTR	ABUTH	CHEAL					
Pest Name	Giant ragweed	velvetleaf	Common lambsqu>					
Crop Code				ZEAMX	ZEAMX	ZEAMX		
Crop Name				Corn	Corn	Corn		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C	PLOT C		
Rating Date	7/10/2015	7/10/2015	7/10/2015	9/24/2015	9/24/2015	9/24/2015		
Rating Type	CONTRO	CONTRO	CONTRO	YIELD	MOICON	YIELD		
Rating Unit	%	%	%	lb/plot	%	BU		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	43 43	43 43	43 43	119 119	119 119	119 119		
Trt-Eval Interval	43 DA-A	43 DA-A	43 DA-A	119 DA-A	119 DA-A	119 DA-A		
Days After Emergence	62 DE-1	62 DE-1	62 DE-1	138 DE-1	138 DE-1	138 DE-1		
ARM Action Codes	P	P	P			TY1		
Number of Decimals	0	0	0	2	2	1		
Trt Treatment	Rate	Appl	22	23	24	25	26	27
No. Name	Rate Unit	Code						
7 CALLISTO	3 fl oz/a	A	86 a	100 a	100 a	44.46 a	20.25 a	261.2 a
PRIME OIL - COC	1 % v/v	A						
N-PAK - AMS	2.5 lb ai/100 gal	A						
8 DIFLEXX	8 fl oz/a	A	95 a	85 bc	98 a	45.57 a	20.08 a	268.2 a
PRIME OIL - COC	1 % v/v	A						
N-PAK - AMS	2.5 lb ai/100 gal	A						
9 DIFLEXX	12 fl oz/a	A	92 a	77 c	100 a	44.04 a	20.17 a	258.9 a
PRIME OIL - COC	1 % v/v	A						
N-PAK - AMS	2.5 lb ai/100 gal	A						
10 DIFLEXX	16 fl oz/a	A	96 a	99 ab	100 a	42.97 a	19.84 a	253.6 a
PRIME OIL - COC	1 % v/v	A						
N-PAK - AMS	2.5 lb ai/100 gal	A						
LSD P=.05			11.9	14.5	13.2	3.861	0.589	23.01
Standard Deviation			8.2	9.5	8.6	2.661	0.406	15.86
CV			9.95	11.18	9.77	6.23	2.02	6.31
Bartlett's X2			15.002	3.027	13.346	21.362	8.181	21.605
P(Bartlett's X2)			0.059	0.388	0.01*	0.011*	0.516	0.01*
Skewness			-2.2867*	-1.6941*	-1.8368*	-2.7408*	-0.1847	-2.7054*
Kurtosis			4.0243*	1.4238	1.6861	8.2065*	-0.7128	8.0454*
Replicate F			2.267	0.306	0.246	0.195	3.900	0.195
Replicate Prob(F)			0.1064	0.8207	0.8628	0.8988	0.0195	0.8987
Treatment F			50.591	42.429	52.386	14.619	0.496	14.272
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.8640	0.0001

Purdue Weed Science

Armezon Status Combinations

Trial ID: 15S-THP-CTC-06 Location: TPAC Trial Year: 2015
 Protocol ID: 15S-THP-CTC-06 Investigator: Dr. Bill Johnson
 Project ID: DEC H 2015 US C41 A Study Director: Joe Ikley
 Sponsor Contact: BASF - Gery Welker

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, = US
 ABUTH, Abutilon theophrasti, = US
 CHEAL, Chenopodium album, = 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
 PHYSTU = phytotoxicity - stunting
 BROKEN = broken
 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)
 $TY1 = 6.222857 * [25] * (100 - [26]) / 84.5$