

Armezon Status Combinations

Trial ID: 15BASFFPOSTC2 Location: Western Branch Big e Trial Year: 2015
 Protocol ID: 15BASFFPOSTC2 Investigator: Dr. Mark M. Loux
 Project ID: DEV H 2015 US C41 Study Director: Anthony Dobbels
 Sponsor Contact: Trevor Kraus, BASF

General Trial Information

Study Director: Anthony Dobbels
Investigator: Dr. Mark M. Loux

Trial Location

City: South Charleston **Country:** USA United States
State/Prov.: Ohio
Postal Code: 45368 **Climate Zone:** USWARM US Warm Continental

Latitude of LL Corner °: 39.85654 N
Longitude of LL Corner °: 83.67017 W

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Anthony Dobbels

Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: ZEAMX Zea mays
Variety: SCS 1105 AM
Description: RR / LL

Planting Date: 5-3-2015
Planting Method: PLANTD planted
Planting Equipment: FPP Finger Pickup Planter
Emergence Date: 5-9-2015

Planting Rate, Unit: 32097 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 60 F
Soil Moisture: NORMAL normal, adequate
Seed Bed: MEDIUM medium

Pest Description

Pest 1 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 2 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

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

Pest 4 Type: W **Code:** HIBTR Hibiscus trionum
Common Name: Venice mallow

Pest 5 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: velvetleaf

Pest 6 Type: W **Code:** POLPY Persicaria pensylvanica
Common Name: Pennsylvania smartweed

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT2 **Treatments:** 10
Replications: 4

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOB L Randomized Complete Block (RCB)

No. Previous Crop Year

1. Soybean 2014

Maintenance

No.	Date	Maintenance Product Name	Rate	Unit
1.	5-4-2015	Dual II Magnum 1		PT/A

Soil Description

Description Name: Big E

% OM: 2.8

pH: 5.9

CEC: 17.44

Texture: SIL silt loam

Soil Name: Kokomo

Fert. Level: G good

Soil Drainage: G good

Additional Measured Elements

Date	Element	Quantity	Unit
4-24-2015	NH3	180	LBS

Application Description

A

Application Date: 5-28-2015
Appl. Start Time: 1:00 PM
Appl. Stop Time: 1:30 PM
Application Method: SPRAY
Application Timing: POST
Application Placement: BROFOL
Applied By: Bethel/Barc
Air Temperature, Unit: 80 F
% Relative Humidity: 60
Wind Velocity, Unit: 4 MPH
Wind Direction: SSE
Dew Presence (Y/N): N no
Soil Temperature, Unit: 72 F
Soil Moisture: MOIST
% Cloud Cover: 60
Next Moisture Occurred On: 5-30-2015
Time to Next Moisture, Unit: 2 DAY

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH
Stage Majority, Percent: 14 100
Height, Unit: 11 IN
Height Minimum, Maximum: 10 12

Pest Stage At Each Application

A

Pest 1 Code, Type, Scale: SETFA W
Stage Majority, Percent: 13 100
Stage Minimum, Percent: 13 100
Stage Maximum, Percent: 13 100
Height, Unit: 4 IN
Height Minimum, Maximum: 4 4
Density, Unit: 188 m2
Pest 2 Code, Type, Scale: AMBTR W
Stage Majority, Percent: 14 100
Stage Minimum, Percent: 14 100
Stage Maximum, Percent: 14 100
Height, Unit: 2 IN
Height Minimum, Maximum: 2 2
Density, Unit: 3.25 m2
Pest 3 Code, Type, Scale: CHEAL W
Stage Majority, Percent: 16 100
Stage Minimum, Percent: 16 100
Stage Maximum, Percent: 16 100
Height, Unit: 2 IN
Height Minimum, Maximum: 1 2
Density, Unit: 10 m2
Pest 4 Code, Type, Scale: HIBTR W
Stage Majority, Percent: 12 100
Diameter, Unit: 1 IN
Height, Unit: 1 IN
Height Minimum, Maximum: 0.5 1
Density, Unit: 0.5 M2
Pest 5 Code, Type, Scale: ABUTH W
Stage Majority, Percent: 13 100
Stage Minimum, Percent: 13 100
Stage Maximum, Percent: 13 100
Height, Unit: 2 IN
Height Minimum, Maximum: 2 2
Density, Unit: 1.75 m2
Pest 6 Code, Type, Scale: POLPY W
Stage Majority, Percent: 13 100
Stage Minimum, Percent: 13 100
Stage Maximum, Percent: 13 100
Height, Unit: 1 IN
Height Minimum, Maximum: 1 1
Density, Unit: 0.75 m2

Application Equipment

A

Appl. Equipment: 10' AI XR
Equipment Type: SPRBAC
Operation Pressure, Unit: 46 PSI
Nozzle Type: AI XR
Nozzle Size: 110015
Nozzle Spacing, Unit: 18 IN
Boom Length, Unit: 10 FT
Boom Height, Unit: 20 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 15 GPA
Mix Size, Unit: 2 Liters
Propellant: CO2

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Armezon Status Combinations

Trial ID: 15BASFPSTC2 Location: Western Branch Big e Trial Year: 2015
 Protocol ID: 15BASFPSTC2 Investigator: Dr. Mark M. Loux
 Project ID: DEV H 2015 US C41 Study Director: Anthony Dobbels
 Sponsor Contact: Trevor Kraus, BASF

Pest Type				W Weed	W Weed	W Weed
Pest Code				SETFA	AMBTR	CHEAL
Pest Scientific Name				Setaria faberi	Ambrosia trifida	Chenopodium album
Pest Name				Giant foxtail	Giant ragweed	Common lambsquarters
Crop Code	ZEAMX	ZEAMX	ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Rating Date	6-3-2015	6-3-2015	6-11-2015	6-11-2015	6-11-2015	6-11-2015
Rating Type	PHYNEC	PHYCHL	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	6 6	6 6	14 14	14 14	14 14	14 14
Trt-Eval Interval	6 DA-A	6 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	31 DP-1	31 DP-1	39 DP-1	39 DP-1	39 DP-1	39 DP-1
Days After Emergence	25 DE-1	25 DE-1	33 DE-1	33 DE-1	33 DE-1	33 DE-1
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Other Rate	Other Rate	Appl Unit	Appl Code	1	2	3	4	5	6
1	UTC					0 a	0 a	0 a	0 e	0 d	0 d
2	Armezon	0.75 oz/a		A	POST	2 a	0 a	0 a	83 b	82 bc	91 bc
	2 HC MSO	9.6 oz/a		A	POST						
	2 N PAK AMS	48 oz/a		A	POST						
3	Status	5 oz/a		A	POST	1 a	0 a	0 a	64 cd	83 bc	90 c
	3 NIS	4.8 oz/a		A	POST						
	3 N PAK AMS	48 oz/a		A	POST						
4	Armezon	0.5 oz/a		A	POST	1 a	0 a	0 a	82 b	85 bc	96 abc
	4 Status	2.5 oz/a		A	POST						
	4 COC	19.2 oz/a		A	POST						
	4 N PAK AMS	48 oz/a		A	POST						
5	Armezon	0.65 oz/a		A	POST	1 a	0 a	0 a	95 a	93 abc	100 a
	5 Status	3.25 oz/a		A	POST						
	5 COC	19.2 oz/a		A	POST						
	5 N PAK AMS	48 oz/a		A	POST						
6	Armezon	0.75 oz/a		A	POST	2 a	0 a	0 a	89 ab	94 abc	100 a
	6 Status	3.75 oz/a		A	POST						
	6 COC	19.2 oz/a		A	POST						
	6 N PAK AMS	48 oz/a		A	POST						
7	Callisto	3 oz/a		A	POST	3 a	1 a	0 a	60 cd	81 c	100 a
	7 COC	19.2 oz/a		A	POST						
	7 N PAK AMS	48 oz/a		A	POST						
8	DiFlexx	8 oz/a		A	POST	0 a	0 a	0 a	55 d	94 abc	96 abc
	8 COC	19.2 oz/a		A	POST						
	8 N PAK AMS	48 oz/a		A	POST						
9	DiFlexx	12 oz/a		A	POST	0 a	0 a	0 a	68 c	95 ab	99 a
	9 COC	19.2 oz/a		A	POST						
	9 N PAK AMS	48 oz/a		A	POST						

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in
 columns: Yates=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30
 Could not calculate LSD (% mean diff) for columns 3,7,12 because error mean square = 0.

Pest Type				W Weed	W Weed	W Weed
Pest Code				SETFA	AMBTR	CHEAL
Pest Scientific Name				Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name				Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code	ZEAMX	ZEAMX	ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Rating Date	6-3-2015	6-3-2015	6-11-2015	6-11-2015	6-11-2015	6-11-2015
Rating Type	PHYNEC	PHYCHL	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	6 6	6 6	14 14	14 14	14 14	14 14
Trt-Eval Interval	6 DA-A	6 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	31 DP-1	31 DP-1	39 DP-1	39 DP-1	39 DP-1	39 DP-1
Days After Emergence	25 DE-1	25 DE-1	33 DE-1	33 DE-1	33 DE-1	33 DE-1
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Other Rate	Other Rate	Appl Unit	Appl Code	1	2	3	4	5	6
10 DiFlexx	16 oz/a		A	POST	0 a	0 a	0 a	63 cd	99 a	98 ab
10 COC	19.2 oz/a		A	POST						
10 N PAK AMS	48 oz/a		A	POST						
LSD P=.05					2.5	1.2	.	9.5	13.5	7.4
Standard Deviation					1.7	0.8	0.0	6.6	9.3	5.1
CV					175.77	644.5	0.0	9.99	11.52	5.86
Grand Mean					1.0	0.1	0.0	65.7	80.5	86.8
Bartlett's X2					1.464	0.0	0.0	11.091	26.441	7.844
P(Bartlett's X2)					0.917	.	.	0.197	0.001*	0.165
Skewness					1.5702*	6.245*	.	-1.3235*	-2.1813*	-2.5598*
Kurtosis					0.7967	39.0*	.	1.6648*	3.7656*	5.1223*
Replicate F					1.013	0.963	0.000	2.653	1.053	0.838
Replicate Prob(F)					0.4027	0.4250	1.0000	0.0697	0.3860	0.4854
Treatment F					1.515	0.963	0.000	66.264	39.111	145.847
Treatment Prob(F)					0.1947	0.4914	1.0000	0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	ABUTH	POLPY	HIBTR
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Persicaria pen>	Hibiscus trion>
Pest Name	Redroot pigweed	velvetleaf	Pennsylvania s>	Venice mallow
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	6-11-2015	6-11-2015	6-11-2015	6-11-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	39 DP-1	39 DP-1	39 DP-1	39 DP-1
Days After Emergence	33 DE-1	33 DE-1	33 DE-1	33 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	7	8	9	10
1	UTC					0 b	0 b	0 c	0 b
2	Armezon	0.75 oz/a		A	POST	100 a	94 a	95 b	93 a
	2 HC MSO	9.6 oz/a		A	POST				
	2 N PAK AMS	48 oz/a		A	POST				
3	Status	5 oz/a		A	POST	100 a	99 a	100 a	100 a
	3 NIS	4.8 oz/a		A	POST				
	3 N PAK AMS	48 oz/a		A	POST				
4	Armezon	0.5 oz/a		A	POST	100 a	98 a	100 a	100 a
	4 Status	2.5 oz/a		A	POST				
	4 COC	19.2 oz/a		A	POST				
	4 N PAK AMS	48 oz/a		A	POST				
5	Armezon	0.65 oz/a		A	POST	100 a	100 a	100 a	94 a
	5 Status	3.25 oz/a		A	POST				
	5 COC	19.2 oz/a		A	POST				
	5 N PAK AMS	48 oz/a		A	POST				
6	Armezon	0.75 oz/a		A	POST	100 a	100 a	100 a	100 a
	6 Status	3.75 oz/a		A	POST				
	6 COC	19.2 oz/a		A	POST				
	6 N PAK AMS	48 oz/a		A	POST				
7	Callisto	3 oz/a		A	POST	100 a	100 a	100 a	96 a
	7 COC	19.2 oz/a		A	POST				
	7 N PAK AMS	48 oz/a		A	POST				
8	DiFlexx	8 oz/a		A	POST	100 a	100 a	96 ab	96 a
	8 COC	19.2 oz/a		A	POST				
	8 N PAK AMS	48 oz/a		A	POST				
9	DiFlexx	12 oz/a		A	POST	100 a	90 a	100 a	94 a
	9 COC	19.2 oz/a		A	POST				
	9 N PAK AMS	48 oz/a		A	POST				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	ABUTH	POLPY	HIBTR
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Persicaria pen>	Hibiscus trion>
Pest Name	Redroot pigweed	velvetleaf	Pennsylvania s>	Venice mallow
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	6-11-2015	6-11-2015	6-11-2015	6-11-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	39 DP-1	39 DP-1	39 DP-1	39 DP-1
Days After Emergence	33 DE-1	33 DE-1	33 DE-1	33 DE-1
Number of Decimals	0	0	0	0

Trt	Treatment	Other	Other	Appl	Appl	7	8	9	10
No.	Name	Rate	Rate	Unit	Code	Description			
10	DiFlexx	16 oz/a		A	POST	100 a	94 a	100 a	96 a
10	COC	19.2 oz/a		A	POST				
10	N PAK AMS	48 oz/a		A	POST				
LSD P=.05						.	10.7	5.4	7.7
Standard Deviation						0.0	7.4	3.7	5.3
CV						0.0	8.44	4.2	6.09
Grand Mean						90.0	87.3	89.1	86.9
Bartlett's X2						0.0	12.369	0.195	0.103
P(Bartlett's X2)						.	0.015*	0.659	1.00
Skewness						-2.726*	-2.4875*	-2.6506*	-2.5412*
Kurtosis						5.722*	4.754*	5.4333*	5.0673*
Replicate F						0.000	1.345	2.117	4.076
Replicate Prob(F)						1.0000	0.2815	0.1224	0.0169
Treatment F						0.000	70.188	281.692	134.397
Treatment Prob(F)						1.0000	0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOHE	SETFA	AMBTR	CHEAL
Pest Scientific Name	Ipomoea hederata>	Setaria faberi	Ambrosia trifida>	Chenopodium albidum>
Pest Name	Ivyleaf morningglow>	Giant foxtail	Giant ragweed	Common lambsquarters>
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	6-11-2015	6-18-2015	6-18-2015	6-18-2015
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 14	21 21	21 21	21 21
Trt-Eval Interval	14 DA-A	21 DA-A	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	46 DP-1	46 DP-1	46 DP-1
Days After Emergence	33 DE-1	40 DE-1	40 DE-1	40 DE-1
Number of Decimals	0	0	0	0

Trt	Treatment	Other	Other	Appl	Appl	11	12	13	14	15
No.	Name	Rate	Rate	Unit	Description					
1	UTC					0 b	0 a	0 d	0 f	0 e
2	Armezon	0.75 oz/a		A	POST	100 a	0 a	82 a	79 cde	83 d
	2 HC MSO	9.6 oz/a		A	POST					
	2 N PAK AMS	48 oz/a		A	POST					
3	Status	5 oz/a		A	POST	100 a	0 a	65 b	73 e	88 cd
	3 NIS	4.8 oz/a		A	POST					
	3 N PAK AMS	48 oz/a		A	POST					
4	Armezon	0.5 oz/a		A	POST	93 a	0 a	82 a	76 de	83 d
	4 Status	2.5 oz/a		A	POST					
	4 COC	19.2 oz/a		A	POST					
	4 N PAK AMS	48 oz/a		A	POST					
5	Armezon	0.65 oz/a		A	POST	94 a	0 a	83 a	86 bc	92 bc
	5 Status	3.25 oz/a		A	POST					
	5 COC	19.2 oz/a		A	POST					
	5 N PAK AMS	48 oz/a		A	POST					
6	Armezon	0.75 oz/a		A	POST	100 a	0 a	83 a	89 ab	98 ab
	6 Status	3.75 oz/a		A	POST					
	6 COC	19.2 oz/a		A	POST					
	6 N PAK AMS	48 oz/a		A	POST					
7	Callisto	3 oz/a		A	POST	96 a	0 a	53 c	84 bcd	100 a
	7 COC	19.2 oz/a		A	POST					
	7 N PAK AMS	48 oz/a		A	POST					
8	DiFlexx	8 oz/a		A	POST	96 a	0 a	58 bc	90 ab	94 abc
	8 COC	19.2 oz/a		A	POST					
	8 N PAK AMS	48 oz/a		A	POST					
9	DiFlexx	12 oz/a		A	POST	96 a	0 a	58 bc	86 abc	100 a
	9 COC	19.2 oz/a		A	POST					
	9 N PAK AMS	48 oz/a		A	POST					

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Pest Type	W Weed		W Weed		W Weed		W Weed			
Pest Code	IPOHE		SETFA		AMBTR		CHEAL			
Pest Scientific Name	Ipomoea hederata>		Setaria faberi		Ambrosia trifida>		Chenopodium al-			
Pest Name	Ivyleaf mornin>		Giant foxtail		Giant ragweed		Common lambsqu>			
Crop Code	ZEAMX									
BBCH Scale	BCOR									
Crop Scientific Name	Zea mays									
Crop Name	Corn									
Rating Date	6-11-2015		6-18-2015		6-18-2015		6-18-2015			
Rating Type	CONTRO		PHYGEN		CONTRO		CONTRO			
Rating Unit	%		%		%		%			
Number of Subsamples	1		1		1		1			
Days After First/Last Applic.	14 14		21 21		21 21		21 21			
Trt-Eval Interval	14 DA-A		21 DA-A		21 DA-A		21 DA-A			
Plant-Eval Interval	39 DP-1		46 DP-1		46 DP-1		46 DP-1			
Days After Emergence	33 DE-1		40 DE-1		40 DE-1		40 DE-1			
Number of Decimals	0		0		0		0			
Trt Treatment	Other	Other	Appl	Appl						
No. Name	Rate	Rate	Unit	Code	Description	11	12	13	14	15
10 DiFlexx	16 oz/a		A	POST		100 a	0 a	60 bc	95 a	99 ab
10 COC	19.2 oz/a		A	POST						
10 N PAK AMS	48 oz/a		A	POST						
LSD P=.05						8.5	.	7.6	8.4	8.2
Standard Deviation						5.8	0.0	5.3	5.8	5.7
CV						6.68	0.0	8.44	7.64	6.79
Grand Mean						87.5	0.0	62.2	75.8	83.4
Bartlett's X2						12.472	0.0	14.356	4.597	9.385
P(Bartlett's X2)						0.029*	.	0.045*	0.80	0.153
Skewness						-2.5229*	.	-1.5103*	-2.2915*	-2.3664*
Kurtosis						4.9134*	.	1.8774*	4.2971*	4.4908*
Replicate F						0.449	0.000	0.586	0.612	0.413
Replicate Prob(F)						0.7200	1.0000	0.6298	0.6131	0.7453
Treatment F						111.398	0.000	91.368	89.821	112.767
Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	ABUTH	HIBTR	POLPY	SIDSP
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Hibiscus trion>	Persicaria pen>	Sida spinosa
Pest Name	Redroot pigweed	velvetleaf	Venice mallow	Pennsylvania s>	Prickly sida
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	6-18-2015	6-18-2015	6-18-2015	6-18-2015	6-18-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	21 21	21 21	21 21	21 21	21 21
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Plant-Eval Interval	46 DP-1	46 DP-1	46 DP-1	46 DP-1	46 DP-1
Days After Emergence	40 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1
Number of Decimals	0	0	0	0	0

Trt	Treatment	Other	Other	Appl	Appl	16	17	18	19	20	
No.	Name	Rate	Rate	Unit	Code	Description					
1	UTC						0 b	0 d	0 b	2 d	0 e
2	Armezon	0.75 oz/a		A		POST	95 a	80 bc	89 a	81 c	69 cd
	2 HC MSO	9.6 oz/a		A		POST					
	2 N PAK AMS	48 oz/a		A		POST					
3	Status	5 oz/a		A		POST	100 a	75 c	96 a	99 a	93 ab
	3 NIS	4.8 oz/a		A		POST					
	3 N PAK AMS	48 oz/a		A		POST					
4	Armezon	0.5 oz/a		A		POST	97 a	95 ab	95 a	84 bc	76 bcd
	4 Status	2.5 oz/a		A		POST					
	4 COC	19.2 oz/a		A		POST					
	4 N PAK AMS	48 oz/a		A		POST					
5	Armezon	0.65 oz/a		A		POST	100 a	100 a	94 a	97 a	78 a-d
	5 Status	3.25 oz/a		A		POST					
	5 COC	19.2 oz/a		A		POST					
	5 N PAK AMS	48 oz/a		A		POST					
6	Armezon	0.75 oz/a		A		POST	100 a	100 a	96 a	93 ab	100 a
	6 Status	3.75 oz/a		A		POST					
	6 COC	19.2 oz/a		A		POST					
	6 N PAK AMS	48 oz/a		A		POST					
7	Callisto	3 oz/a		A		POST	100 a	100 a	95 a	98 a	93 ab
	7 COC	19.2 oz/a		A		POST					
	7 N PAK AMS	48 oz/a		A		POST					
8	DiFlexx	8 oz/a		A		POST	100 a	90 abc	88 a	100 a	73 bcd
	8 COC	19.2 oz/a		A		POST					
	8 N PAK AMS	48 oz/a		A		POST					
9	DiFlexx	12 oz/a		A		POST	100 a	95 ab	88 a	100 a	63 d
	9 COC	19.2 oz/a		A		POST					
	9 N PAK AMS	48 oz/a		A		POST					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	ABUTH	HIBTR	POLPY	SIDSP
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Hibiscus trion>	Persicaria pen>	Sida spinosa
Pest Name	Redroot pigweed	velvetleaf	Venice mallow	Pennsylvania s>	Prickly sida
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	6-18-2015	6-18-2015	6-18-2015	6-18-2015	6-18-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	21 21	21 21	21 21	21 21	21 21
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Plant-Eval Interval	46 DP-1	46 DP-1	46 DP-1	46 DP-1	46 DP-1
Days After Emergence	40 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Other	Other	Appl	Appl	
No. Name	Rate	Rate	Unit	Code	Description
10 DiFlexx	16 oz/a	A	POST	16	100 a
10 COC	19.2 oz/a	A	POST	17	91 abc
10 N PAK AMS	48 oz/a	A	POST	18	91 a
				19	100 a
				20	85 abc
LSD P=.05	5.2	16.6	9.4	10.6	21.7
Standard Deviation	3.6	11.4	6.5	7.3	14.8
CV	4.04	13.79	7.82	8.52	20.28
Grand Mean	89.2	82.6	83.1	85.3	72.9
Bartlett's X2	1.422	2.81	1.744	11.282	16.749
P(Bartlett's X2)	0.233	0.729	0.988	0.046*	0.033*
Skewness	-2.6655*	-1.9781*	-2.3974*	-2.671*	-1.1596*
Kurtosis	5.4899*	2.9319*	4.628*	6.3526*	0.6714
Replicate F	0.912	0.458	5.428	2.636	3.574
Replicate Prob(F)	0.4489	0.7139	0.0049	0.0718	0.0312
Treatment F	302.881	28.192	81.804	68.828	14.452
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOHE	SETFA	AMBTR	CHEAL
Pest Scientific Name	<i>Ipomoea hederifolia</i>	<i>Setaria faberii</i>	<i>Ambrosia trifida</i>	<i>Chenopodium album</i>
Pest Name	Ivyleaf morningglow	Giant foxtail	Giant ragweed	Common lambsquarters
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	6-18-2015	7-10-2015	7-10-2015	7-10-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	21 21	43 43	43 43	43 43
Trt-Eval Interval	21 DA-A	43 DA-A	43 DA-A	43 DA-A
Plant-Eval Interval	46 DP-1	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	40 DE-1	62 DE-1	62 DE-1	62 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Appl Description	21	22	23	24
1	UTC						0 c	0 e	0 f	0 d
2	Armezon	0.75 oz/a		A		POST	86 ab	72 ab	70 de	76 c
2	HC MSO	9.6 oz/a		A		POST				
2	N PAK AMS	48 oz/a		A		POST				
3	Status	5 oz/a		A		POST	90 ab	61 bc	62 e	92 b
3	NIS	4.8 oz/a		A		POST				
3	N PAK AMS	48 oz/a		A		POST				
4	Armezon	0.5 oz/a		A		POST	81 b	74 ab	60 e	84 c
4	Status	2.5 oz/a		A		POST				
4	COC	19.2 oz/a		A		POST				
4	N PAK AMS	48 oz/a		A		POST				
5	Armezon	0.65 oz/a		A		POST	95 ab	81 ab	75 d	92 b
5	Status	3.25 oz/a		A		POST				
5	COC	19.2 oz/a		A		POST				
5	N PAK AMS	48 oz/a		A		POST				
6	Armezon	0.75 oz/a		A		POST	99 a	85 a	81 cd	99 ab
6	Status	3.75 oz/a		A		POST				
6	COC	19.2 oz/a		A		POST				
6	N PAK AMS	48 oz/a		A		POST				
7	Callisto	3 oz/a		A		POST	88 ab	50 cd	86 bc	100 ab
7	COC	19.2 oz/a		A		POST				
7	N PAK AMS	48 oz/a		A		POST				
8	DiFlexx	8 oz/a		A		POST	89 ab	33 d	95 ab	100 a
8	COC	19.2 oz/a		A		POST				
8	N PAK AMS	48 oz/a		A		POST				
9	DiFlexx	12 oz/a		A		POST	96 ab	44 cd	100 a	100 a
9	COC	19.2 oz/a		A		POST				
9	N PAK AMS	48 oz/a		A		POST				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOHE	SETFA	AMBTR	CHEAL
Pest Scientific Name	Ipomoea heder>	Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name	Ivyleaf mornin>	Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	6-18-2015	7-10-2015	7-10-2015	7-10-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	21 21	43 43	43 43	43 43
Trt-Eval Interval	21 DA-A	43 DA-A	43 DA-A	43 DA-A
Plant-Eval Interval	46 DP-1	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	40 DE-1	62 DE-1	62 DE-1	62 DE-1
Number of Decimals	0	0	0	0

Trt Treatment	Other Rate	Other Rate	Appl Unit	Appl Code	Description	21	22	23	24
10 DiFlexx	16 oz/a		A	POST		100 a	43 cd	99 a	100 a
10 COC	19.2 oz/a		A	POST					
10 N PAK AMS	48 oz/a		A	POST					
LSD P=.05						17.3	21.2	11.3	7.6
Standard Deviation						11.9	14.6	7.8	5.2
CV						14.47	26.89	10.69	6.21
Grand Mean						82.3	54.2	72.8	84.3
Bartlett's X2						8.244	26.307	9.499	15.515
P(Bartlett's X2)						0.312	0.001*	0.219	0.008*
Skewness						-2.0096*	-0.4335	-1.3774*	-2.3193*
Kurtosis						3.0394*	-0.858	1.5101*	4.2255*
Replicate F						1.913	1.496	4.463	0.838
Replicate Prob(F)						0.1533	0.2388	0.0117	0.4854
Treatment F						24.614	12.734	56.913	137.528
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMARE	ABUTH	HIBTR	POLPY	SIDSP			
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Hibiscus trion>	Persicaria pen>	Sida spinosa			
Pest Name	Redroot pigweed	velvetleaf	Venice mallow	Pennsylvania s>	Prickly sida			
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date	7-10-2015	7-10-2015	7-10-2015	7-10-2015	7-10-2015			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	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			
Plant-Eval Interval	68 DP-1	68 DP-1	68 DP-1	68 DP-1	68 DP-1			
Days After Emergence	62 DE-1	62 DE-1	62 DE-1	62 DE-1	62 DE-1			
Number of Decimals	0	0	0	0	0			
Trt Treatment	Other Other	Appl Appl						
No. Name	Rate Rate	Unit Code	Description	25	26	27	28	29
1 UTC				0 c	0 c	0 b	0 d	0 c
2 Armezon	0.75 oz/a	A	POST	90 b	100 a	95 a	78 c	60 b
2 HC MSO	9.6 oz/a	A	POST					
2 N PAK AMS	48 oz/a	A	POST					
3 Status	5 oz/a	A	POST	100 a	75 b	99 a	96 ab	80 ab
3 NIS	4.8 oz/a	A	POST					
3 N PAK AMS	48 oz/a	A	POST					
4 Armezon	0.5 oz/a	A	POST	100 a	90 a	99 a	95 ab	74 ab
4 Status	2.5 oz/a	A	POST					
4 COC	19.2 oz/a	A	POST					
4 N PAK AMS	48 oz/a	A	POST					
5 Armezon	0.65 oz/a	A	POST	95 ab	100 a	95 a	100 a	76 ab
5 Status	3.25 oz/a	A	POST					
5 COC	19.2 oz/a	A	POST					
5 N PAK AMS	48 oz/a	A	POST					
6 Armezon	0.75 oz/a	A	POST	96 a	97 a	95 a	86 bc	91 a
6 Status	3.75 oz/a	A	POST					
6 COC	19.2 oz/a	A	POST					
6 N PAK AMS	48 oz/a	A	POST					
7 Callisto	3 oz/a	A	POST	100 a	100 a	100 a	100 a	95 a
7 COC	19.2 oz/a	A	POST					
7 N PAK AMS	48 oz/a	A	POST					
8 DiFlexx	8 oz/a	A	POST	100 a	100 a	100 a	100 a	89 a
8 COC	19.2 oz/a	A	POST					
8 N PAK AMS	48 oz/a	A	POST					
9 DiFlexx	12 oz/a	A	POST	100 a	100 a	100 a	100 a	92 a
9 COC	19.2 oz/a	A	POST					
9 N PAK AMS	48 oz/a	A	POST					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	ABUTH	HIBTR	POLPY	SIDSP
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Hibiscus trion>	Persicaria pen>	Sida spinosa
Pest Name	Redroot pigweed	velvetleaf	Venice mallow	Pennsylvania s>	Prickly sida
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	7-10-2015	7-10-2015	7-10-2015	7-10-2015	7-10-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	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
Plant-Eval Interval	68 DP-1	68 DP-1	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	62 DE-1	62 DE-1	62 DE-1	62 DE-1	62 DE-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Other	Other	Appl	Appl	
No. Name	Rate	Rate	Unit	Code	Description
10 DiFlexx	16 oz/a	A	POST	25	100 a
10 COC	19.2 oz/a	A	POST	26	95 a
10 N PAK AMS	48 oz/a	A	POST	27	100 a
				28	100 a
				29	95 a
LSD P=.05	6.1	14.6	7.4	11.5	21.6
Standard Deviation	4.2	10.0	5.1	7.9	14.7
CV	4.76	11.72	5.8	9.23	19.49
Grand Mean	88.1	85.7	88.3	85.5	75.2
Bartlett's X2	1.568	3.707	8.648	2.17	6.593
P(Bartlett's X2)	0.457	0.295	0.071	0.538	0.581
Skewness	-2.6007*	-2.2026*	-2.6026*	-2.2779*	-1.4055*
Kurtosis	5.2539*	3.6054*	5.2556*	3.9818*	0.9675
Replicate F	1.446	0.154	1.363	1.031	2.047
Replicate Prob(F)	0.2524	0.9259	0.2759	0.3951	0.1381
Treatment F	220.665	38.401	147.328	61.669	15.361
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001

Pest Type W Weed
 Pest Code IPOHE
 Pest Scientific Name Ipomoea hederata
 Pest Name Ivyleaf mornin
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date 7-10-2015
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1
 Days After First/Last Applic. 43 43
 Trt-Eval Interval 43 DA-A
 Plant-Eval Interval 68 DP-1
 Days After Emergence 62 DE-1
 Number of Decimals 0

Trt No.	Treatment Name	Other Rate	Other Rate	Unit	Appl Code	Appl Description	
							30
1	UTC						0 c
2	Armezon	0.75 oz/a		A	POST		85 b
2	HC MSO	9.6 oz/a		A	POST		
2	N PAK AMS	48 oz/a		A	POST		
3	Status	5 oz/a		A	POST		95 ab
3	NIS	4.8 oz/a		A	POST		
3	N PAK AMS	48 oz/a		A	POST		
4	Armezon	0.5 oz/a		A	POST		85 b
4	Status	2.5 oz/a		A	POST		
4	COC	19.2 oz/a		A	POST		
4	N PAK AMS	48 oz/a		A	POST		
5	Armezon	0.65 oz/a		A	POST		90 ab
5	Status	3.25 oz/a		A	POST		
5	COC	19.2 oz/a		A	POST		
5	N PAK AMS	48 oz/a		A	POST		
6	Armezon	0.75 oz/a		A	POST		95 ab
6	Status	3.75 oz/a		A	POST		
6	COC	19.2 oz/a		A	POST		
6	N PAK AMS	48 oz/a		A	POST		
7	Callisto	3 oz/a		A	POST		100 a
7	COC	19.2 oz/a		A	POST		
7	N PAK AMS	48 oz/a		A	POST		
8	DiFlexx	8 oz/a		A	POST		95 ab
8	COC	19.2 oz/a		A	POST		
8	N PAK AMS	48 oz/a		A	POST		
9	DiFlexx	12 oz/a		A	POST		100 a
9	COC	19.2 oz/a		A	POST		
9	N PAK AMS	48 oz/a		A	POST		

Pest Type W Weed
 Pest Code IPOHE
 Pest Scientific Name Ipomoea hederata
 Pest Name Ivyleaf mornin
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date 7-10-2015
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1
 Days After First/Last Applic. 43 43
 Trt-Eval Interval 43 DA-A
 Plant-Eval Interval 68 DP-1
 Days After Emergence 62 DE-1
 Number of Decimals 0

Trt No.	Treatment Name	Other Rate	Other Rate	Unit	Appl Code	Appl Description	
10	DiFlexx	16 oz/a		A	POST		100 a
10	COC	19.2 oz/a		A	POST		
10	N PAK AMS	48 oz/a		A	POST		

LSD P=.05 13.6
 Standard Deviation 9.3
 CV 11.01
 Grand Mean 84.5
 Bartlett's X2 2.968
 P(Bartlett's X2) 0.705
 Skewness -2.2025*
 Kurtosis 3.7147*

Replicate F 2.227
 Replicate Prob(F) 0.1100
 Treatment F 42.206
 Treatment Prob(F) 0.0001

Armezon Status Combinations

Trial ID: 15BASFPSTC2 Location: Western Branch Big e Trial Year: 2015
Protocol ID: 15BASFPSTC2 Investigator: Dr. Mark M. Loux
Project ID: DEV H 2015 US C41 Study Director: Anthony Dobbels
Sponsor Contact: Trevor Kraus, BASF

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
AMBTR, *Ambrosia trifida*, = US
CHEAL, *Chenopodium album*, = US
AMARE, *Amaranthus retroflexus*, = US
ABUTH, *Abutilon theophrasti*, = US
POLPY, *Persicaria pensylvanica*, = US
HIBTR, *Hibiscus trionum*, = US
IPOHE, *Ipomoea hederacea*, = US
SIDSP, *Sida spinosa*, = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Type

PHYNEC = phytotoxicity - necrosis /burn
PHYCHL = phytotoxicity - chlorosis
PHYGEN = phytotoxicity - general / injury
CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

31 DP-1 = 1 ZEAMX 5-3-2015
39 DP-1 = 1 ZEAMX 5-3-2015
46 DP-1 = 1 ZEAMX 5-3-2015
68 DP-1 = 1 ZEAMX 5-3-2015