

## Armezon Pro Efficacy and Crop Safety

Trial ID: 15BASFPSTC1      Location: Western Branch Big E      Trial Year: 2015  
 Protocol ID: 15BASFPSTC1      Investigator: Dr. Mark M. Loux  
 Project ID: DEV H 2015 US C42      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** °: 39.85669 N  
**Longitude of LL Corner** °: 83.67015 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:** ABUTH      Abutilon theophrasti  
**Common Name:** velvetleaf

**Pest 4 Type:** W      **Code:** CHEAL      Chenopodium album  
**Common Name:** Common lambsquarters

**Pest 5 Type:** W      **Code:** AMARE      Amaranthus retroflexus  
**Common Name:** Redroot pigweed

**Site and Design**

**Treated Plot Width:** 10 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 300 FT2      **Treatments:** 12  
**Replications:** 4

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

**No. Previous Crop Year**  
 1. Soybean      2014

**Soil Description**

**Description Name:** Big E  
**% OM:** 2.8      **Texture:** SIL silt loam  
**pH:** 5.9      **Soil Name:** Kokomo  
**CEC:** 17.44      **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: 5-15-2015  
Appl. Start Time: 9:30 AM  
Appl. Stop Time: 10:00 AM  
Application Method: SPRAY  
Application Timing: EPO  
Application Placement: BROFOL  
Applied By: Ackley  
Air Temperature, Unit: 66 F  
% Relative Humidity: 73  
Wind Velocity, Unit: 6 MPH  
Wind Direction: E  
Dew Presence (Y/N): N no  
Soil Temperature, Unit: 60 F  
Soil Moisture: NORMAL  
% Cloud Cover: 60  
Next Moisture Occurred On: 5-18-2015  
Time to Next Moisture, Unit: 3 DAY

**Crop Stage At Each Application**

**A**  
Crop 1 Code, BBCH Scale: ZEAMX BCOR  
Stage Scale Used: BBCH  
Stage Majority, Percent: 12 100  
Height, Unit: 3 IN

**Pest Stage At Each Application**

**A**  
Pest 1 Code, Type, Scale: SETFA W  
Stage Majority, Percent: 12 100  
Height, Unit: 0.5 IN  
Height Minimum, Maximum: 0.25 0.5  
Density, Unit: 125 M2  
Pest 2 Code, Type, Scale: AMBTR W  
Stage Majority, Percent: 09 90  
Stage Minimum, Percent: 09 90  
Stage Maximum, Percent: 10 10  
Diameter, Unit: 1 IN  
Height, Unit: 2 IN  
Height Minimum, Maximum: 1 2  
Density, Unit: 50 M2  
Pest 3 Code, Type, Scale: ABUTH W  
Stage Majority, Percent: 09 100  
Height, Unit: 0.25 IN  
Height Minimum, Maximum: 0.25 0.5  
Density, Unit: 10 M2  
Pest 4 Code, Type, Scale: CHEAL W  
Stage Majority, Percent: 12 90  
Stage Minimum, Percent: 10 10  
Stage Maximum, Percent: 12 90  
Diameter, Unit: 0.5 IN  
Height, Unit: 0.5 IN  
Height Minimum, Maximum: 0.25 0.5  
Density, Unit: 6 M2  
Pest 5 Code, Type, Scale: AMARE W  
Stage Majority, Percent: 11 90  
Stage Minimum, Percent: 09 10  
Stage Maximum, Percent: 11 90  
Diameter, Unit: 0.25 IN  
Height, Unit: 0.25 IN  
Height Minimum, Maximum: 0.25 0.33  
Density, Unit: 4 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

Armezon Pro Efficacy and Crop Safety

Trial ID: 15BASFFPOSTC1 Location: Western Branch Big E Trial Year: 2015  
 Protocol ID: 15BASFFPOSTC1 Investigator: Dr. Mark M. Loux  
 Project ID: DEV H 2015 US C42 Study Director: Anthony Dobbels  
 Sponsor Contact: Trevor Kraus, BASF

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMBTR
Pest Scientific Name				Setaria faberi	Ambrosia trifida
Pest Name				Giant foxtail	Giant ragweed
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	5-18-2015	5-22-2015	6-4-2015	6-4-2015	6-4-2015
Rating Type	PHYNEC	PHYNEC	PHYNEC		
Rating Unit	%	%	%		
Number of Subsamples	1	1	1	1	1
Crop Stage Scale					
Days After First/Last Applic.	3 3	7 7	20 20	20 20	20 20
Trt-Eval Interval	3 DA-A	7 DA-A	20 DA-A	20 DA-A	20 DA-A
Plant-Eval Interval	15 DP-1	19 DP-1	32 DP-1	32 DP-1	32 DP-1
Days After Emergence	9 DE-1	13 DE-1	26 DE-1	26 DE-1	26 DE-1
ARM Action Codes					
Number of Decimals	0	0	0		

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	1	2	3	4	5
1	UTC					0 e	0 e	0 a	0.0 e	0.0 b
2	BAS 67703 H	20 oz/a		A	POST	3 d	0 e	0 a	84.5 abc	73.8 a
	2 HC MSO	9.6 oz/a		A	POST					
	2 N PAK AMS	1.5 qt/a		A	POST					
3	BAS 67703 H	20 oz/a		A	POST	11 a	4 ab	0 a	89.5 ab	80.8 a
	3 Atrazine	32 oz/a		A	POST					
	3 COC	19.2 oz/a		A	POST					
	3 N PAK AMS	1.5 qt/a		A	POST					
4	BAS 67703 H	20 oz/a		A	POST	5 c	3 ab	0 a	92.0 a	82.5 a
	4 Atrazine	32 oz/a		A	POST					
	4 NIS	4.8 oz/a		A	POST					
	4 N PAK AMS	1.5 qt/a		A	POST					
5	Capreno	3 oz/a		A	POST	5 cd	2 cd	0 a	70.0 d	80.0 a
	5 COC	19.2 oz/a		A	POST					
	5 N PAK AMS	1.5 qt/a		A	POST					
6	Capreno	3 oz/a		A	POST	5 c	3 bc	0 a	82.0 bc	83.3 a
	6 Atrazine	32 oz/a		A	POST					
	6 COC	19.2 oz/a		A	POST					
	6 N PAK AMS	1.5 qt/a		A	POST					
7	BAS 67703 H	20 oz/a		A	POST	5 cd	1 de	0 a	84.3 abc	78.0 a
	7 Roundup PowerMax	16 oz/a		A	POST					
	7 COC	19.2 oz/a		A	POST					
	7 N PAK AMS	1.5 qt/a		A	POST					
8	BAS 67703 H	20 oz/a		A	POST	1 e	1 de	0 a	87.5 ab	72.5 a
	8 Roundup PowerMax	16 oz/a		A	POST					
	8 NIS	4.8 oz/a		A	POST					
	8 N PAK AMS	1.5 qt/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=6,7,13,14; Average=8,9,10,15,16,17  
 Could not calculate LSD (% mean diff) for columns 3,7 because error mean square = 0.

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMBTR
Pest Scientific Name				Setaria faberi	Ambrosia trifi>
Pest Name				Giant foxtail	Giant ragweed
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	5-18-2015	5-22-2015	6-4-2015	6-4-2015	6-4-2015
Rating Type	PHYNEC	PHYNEC	PHYNEC		
Rating Unit	%	%	%		
Number of Subsamples	1	1	1	1	1
Crop Stage Scale					
Days After First/Last Applic.	3	7	20	20	20
Trt-Eval Interval	3 DA-A	7 DA-A	20 DA-A	20 DA-A	20 DA-A
Plant-Eval Interval	15 DP-1	19 DP-1	32 DP-1	32 DP-1	32 DP-1
Days After Emergence	9 DE-1	13 DE-1	26 DE-1	26 DE-1	26 DE-1
ARM Action Codes					
Number of Decimals	0	0	0		

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	1	2	3	4	5
9	Halex GT	64 oz/a		A	POST	8 b	4 ab	0 a	77.8 cd	82.5 a
9	NIS	4.8 oz/a		A	POST					
9	N PAK AMS	1.5 qt/a		A	POST					
10	BAS 67703 H	20 oz/a		A	POST	10 a	4 a	0 a	89.3 ab	83.3 a
10	Atrazine	32 oz/a		A	POST					
10	Roundup PowerMax	16 oz/a		A	POST					
10	NIS	4.8 oz/a		A	POST					
10	N PAK AMS	1.5 qt/a		A	POST					
11	BAS 67703 H	20 oz/a		A	POST	10 a	3 ab	0 a	92.0 a	79.5 a
11	Atrazine	32 oz/a		A	POST					
11	Roundup PowerMax	16 oz/a		A	POST					
11	COC	19.2 oz/a		A	POST					
11	N PAK AMS	1.5 qt/a		A	POST					
12	Halex GT	64 oz/a		A	POST	11 a	4 ab	0 a	84.3 abc	75.0 a
12	Atrazine	32 oz/a		A	POST					
12	NIS	4.8 oz/a		A	POST					
12	N PAK AMS	1.5 qt/a		A	POST					
12										
12										
LSD P=.05						1.9	1.3	.	8.22	14.32
Standard Deviation						1.3	0.9	0.0	5.71	9.95
CV						21.54	40.0	0.0	7.35	13.71
Grand Mean						6.0	2.2	0.0	77.75	72.58
Bartlett's X2						7.54	8.454	0.0	27.833	8.462
P(Bartlett's X2)						0.183	0.39	.	0.002*	0.584
Skewness						0.1275	0.2285	.	-2.5453*	-1.8138*
Kurtosis						-0.8846	-0.9803	.	5.6746*	3.1476*
Replicate F						0.244	3.738	0.000	6.932	14.570
Replicate Prob(F)						0.8653	0.0204	1.0000	0.0010	0.0001
Treatment F						34.270	11.816	0.000	78.258	21.648
Treatment Prob(F)						0.0001	0.0001	1.0000	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH	HIBTR
Pest Scientific Name	Chenopodium al	Amaranthus ret	Abutilon theop	Hibiscus trion
Pest Name	Common lambsqu	Redroot pigweed	velvetleaf	Venice mallow
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	6-4-2015	6-4-2015	6-4-2015	6-4-2015
Rating Type				
Rating Unit				
Number of Subsamples	1	1	1	1
Crop Stage Scale				
Days After First/Last Applic.	20 20	20 20	20 20	20 20
Trt-Eval Interval	20 DA-A	20 DA-A	20 DA-A	20 DA-A
Plant-Eval Interval	32 DP-1	32 DP-1	32 DP-1	32 DP-1
Days After Emergence	26 DE-1	26 DE-1	26 DE-1	26 DE-1
ARM Action Codes				
Number of Decimals				

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	6	7	8	9
1	UTC					0.0 e	0.0 d	0.0 c	0.0 f
2	BAS 67703 H	20 oz/a		A	POST	87.3 bcd	100.0 a	100.0 a	63.3 e
	2 HC MSO	9.6 oz/a		A	POST				
	2 N PAK AMS	1.5 qt/a		A	POST				
3	BAS 67703 H	20 oz/a		A	POST	93.3 abc	100.0 a	100.0 a	95.0 ab
	3 Atrazine	32 oz/a		A	POST				
	3 COC	19.2 oz/a		A	POST				
	3 N PAK AMS	1.5 qt/a		A	POST				
4	BAS 67703 H	20 oz/a		A	POST	100.0 a	100.0 c	100.0 a	100.0 a
	4 Atrazine	32 oz/a		A	POST				
	4 NIS	4.8 oz/a		A	POST				
	4 N PAK AMS	1.5 qt/a		A	POST				
5	Capreno	3 oz/a		A	POST	85.0 cd	100.0 a	100.0 a	78.3 cd
	5 COC	19.2 oz/a		A	POST				
	5 N PAK AMS	1.5 qt/a		A	POST				
6	Capreno	3 oz/a		A	POST	100.0 a	100.0 b	100.0 a	95.0 ab
	6 Atrazine	32 oz/a		A	POST				
	6 COC	19.2 oz/a		A	POST				
	6 N PAK AMS	1.5 qt/a		A	POST				
7	BAS 67703 H	20 oz/a		A	POST	91.3 a-d	100.0 a	90.0 b	66.7 e
	7 Roundup PowerMax	16 oz/a		A	POST				
	7 COC	19.2 oz/a		A	POST				
	7 N PAK AMS	1.5 qt/a		A	POST				
8	BAS 67703 H	20 oz/a		A	POST	80.8 d	100.0 a	100.0 a	68.3 de
	8 Roundup PowerMax	16 oz/a		A	POST				
	8 NIS	4.8 oz/a		A	POST				
	8 N PAK AMS	1.5 qt/a		A	POST				

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH	HIBTR
Pest Scientific Name	Chenopodium al>	Amaranthus ret>	Abutilon theop>	Hibiscus trion>
Pest Name	Common lambsqu>	Redroot pigweed	velvetleaf	Venice mallow
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	6-4-2015	6-4-2015	6-4-2015	6-4-2015
Rating Type				
Rating Unit				
Number of Subsamples	1	1	1	1
Crop Stage Scale				
Days After First/Last Applic.	20 DA-A	20 DA-A	20 DA-A	20 DA-A
Trt-Eval Interval	20 DA-A	20 DA-A	20 DA-A	20 DA-A
Plant-Eval Interval	32 DP-1	32 DP-1	32 DP-1	32 DP-1
Days After Emergence	26 DE-1	26 DE-1	26 DE-1	26 DE-1
ARM Action Codes				
Number of Decimals				

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	6	7	8	9
9	Halex GT	64 oz/a		A	POST	98.8 a	100.0 a	100.0 a	88.3 bc
9	NIS	4.8 oz/a		A	POST				
9	N PAK AMS	1.5 qt/a		A	POST				
10	BAS 67703 H	20 oz/a		A	POST	95.0 abc	100.0 a	100.0 a	92.5 ab
10	Atrazine	32 oz/a		A	POST				
10	Roundup PowerMax	16 oz/a		A	POST				
10	NIS	4.8 oz/a		A	POST				
10	N PAK AMS	1.5 qt/a		A	POST				
11	BAS 67703 H	20 oz/a		A	POST	98.8 a	100.0 a	100.0 a	100.0 a
11	Atrazine	32 oz/a		A	POST				
11	Roundup PowerMax	16 oz/a		A	POST				
11	COC	19.2 oz/a		A	POST				
11	N PAK AMS	1.5 qt/a		A	POST				
12	Halex GT	64 oz/a		A	POST	97.9 ab	100.0 a	100.0 a	100.0 a
12	Atrazine	32 oz/a		A	POST				
12	NIS	4.8 oz/a		A	POST				
12	N PAK AMS	1.5 qt/a		A	POST				
12									
12									
LSD P=.05						11.23	.	4.03	10.68
Standard Deviation						7.79	0.00	2.76	7.24
CV						9.09	0.0	3.04	9.17
Grand Mean						85.67	91.67	90.83	78.96
Bartlett's X2						24.458	0.0	0.0	2.263
P(Bartlett's X2)						0.002*	.	.	0.944
Skewness						-2.5208*	-3.0315*	-2.6655*	-1.5898*
Kurtosis						5.3421*	7.5153*	5.4897*	1.7418*
Replicate F						1.782	0.000	0.727	2.840
Replicate Prob(F)						0.1710	1.0000	0.5457	0.0639
Treatment F						50.630	0.000	432.793	61.409
Treatment Prob(F)						0.0001	1.0000	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 faberii	Ambrosia trifida	Chenopodium album
Pest Name	Ivyleaf mornin	Giant foxtail	Giant ragweed	Common lambsqu
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	6-4-2015	6-23-2015	6-23-2015	6-23-2015
Rating Type				
Rating Unit				
Number of Subsamples	1	1	1	1
Crop Stage Scale				
Days After First/Last Applic.	20 20	39 39	39 39	39 39
Trt-Eval Interval	20 DA-A	39 DA-A	39 DA-A	39 DA-A
Plant-Eval Interval	32 DP-1	51 DP-1	51 DP-1	51 DP-1
Days After Emergence	26 DE-1	45 DE-1	45 DE-1	45 DE-1
ARM Action Codes		ET1		
Number of Decimals				

Trt No.	Treatment Name	Other Rate	Other Rate	Unit	Appl Code	Appl Description	10	11	12	13
1	UTC						0.0 c	0.0	0.0 b	0.0 d
2	BAS 67703 H	20 oz/a			A	POST	80.0 b	76.5 ab	62.5 a	66.3 c
	2 HC MSO	9.6 oz/a			A	POST				
	2 N PAK AMS	1.5 qt/a			A	POST				
3	BAS 67703 H	20 oz/a			A	POST	100.0 a	83.5 a	66.0 a	79.8 abc
	3 Atrazine	32 oz/a			A	POST				
	3 COC	19.2 oz/a			A	POST				
	3 N PAK AMS	1.5 qt/a			A	POST				
4	BAS 67703 H	20 oz/a			A	POST	100.0 a	78.3 a	69.8 a	95.0 a
	4 Atrazine	32 oz/a			A	POST				
	4 NIS	4.8 oz/a			A	POST				
	4 N PAK AMS	1.5 qt/a			A	POST				
5	Capreno	3 oz/a			A	POST	86.7 ab	55.0 d	72.5 a	79.8 abc
	5 COC	19.2 oz/a			A	POST				
	5 N PAK AMS	1.5 qt/a			A	POST				
6	Capreno	3 oz/a			A	POST	95.0 a	65.5 c	75.8 a	86.3 ab
	6 Atrazine	32 oz/a			A	POST				
	6 COC	19.2 oz/a			A	POST				
	6 N PAK AMS	1.5 qt/a			A	POST				
7	BAS 67703 H	20 oz/a			A	POST	100.0 a	76.0 ab	68.8 a	70.0 bc
	7 Roundup PowerMax	16 oz/a			A	POST				
	7 COC	19.2 oz/a			A	POST				
	7 N PAK AMS	1.5 qt/a			A	POST				
8	BAS 67703 H	20 oz/a			A	POST	73.3 b	76.3 ab	62.5 a	67.5 bc
	8 Roundup PowerMax	16 oz/a			A	POST				
	8 NIS	4.8 oz/a			A	POST				
	8 N PAK AMS	1.5 qt/a			A	POST				



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 album
Pest Name	Ivyleaf mornin	Giant foxtail	Giant ragweed	Common lambsqu
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	6-4-2015	6-23-2015	6-23-2015	6-23-2015
Rating Type				
Rating Unit				
Number of Subsamples	1	1	1	1
Crop Stage Scale				
Days After First/Last Applic.	20 DA-A	39 DA-A	39 DA-A	39 DA-A
Trt-Eval Interval	20 DA-A	39 DA-A	39 DA-A	39 DA-A
Plant-Eval Interval	32 DP-1	51 DP-1	51 DP-1	51 DP-1
Days After Emergence	26 DE-1	45 DE-1	45 DE-1	45 DE-1
ARM Action Codes		ET1		
Number of Decimals				

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	10	11	12	13
9	Halex GT	64 oz/a		A	POST	100.0 a	68.3 bc	67.5 a	75.0 bc
9	NIS	4.8 oz/a		A	POST				
9	N PAK AMS	1.5 qt/a		A	POST				
10	BAS 67703 H	20 oz/a		A	POST	95.0 a	81.5 a	74.5 a	82.5 abc
10	Atrazine	32 oz/a		A	POST				
10	Roundup PowerMax	16 oz/a		A	POST				
10	NIS	4.8 oz/a		A	POST				
10	N PAK AMS	1.5 qt/a		A	POST				
11	BAS 67703 H	20 oz/a		A	POST	95.0 a	84.3 a	64.5 a	96.0 a
11	Atrazine	32 oz/a		A	POST				
11	Roundup PowerMax	16 oz/a		A	POST				
11	COC	19.2 oz/a		A	POST				
11	N PAK AMS	1.5 qt/a		A	POST				
12	Halex GT	64 oz/a		A	POST	100.0 a	68.3 bc	66.3 a	79.6 abc
12	Atrazine	32 oz/a		A	POST				
12	NIS	4.8 oz/a		A	POST				
12	N PAK AMS	1.5 qt/a		A	POST				
12									
	LSD P=.05					13.69	9.97	13.62	19.80
	Standard Deviation					9.40	6.91	9.47	13.73
	CV					11.0	9.34	15.13	18.77
	Grand Mean					85.42	73.93	62.54	73.14
	Bartlett's X2					6.238	12.403	9.564	4.241
	P(Bartlett's X2)					0.182	0.259	0.48	0.936
	Skewness					-2.1744*	-0.7132	-1.5325*	-1.5524*
	Kurtosis					3.6214*	0.3205	2.6617*	2.233*
	Replicate F					1.417	15.170	13.857	1.000
	Replicate Prob(F)					0.2612	0.0001	0.0001	0.4060
	Treatment F					36.283	6.577	18.154	13.178
	Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	ABUTH	HIBTR	IPOHE
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Hibiscus trion>	Ipomoea hедера>
Pest Name	Redroot pigweed	velvetleaf	Venice mallow	Ivyleaf mornin>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	6-23-2015	6-23-2015	6-23-2015	6-23-2015
Rating Type				
Rating Unit				
Number of Subsamples	1	1	1	1
Crop Stage Scale				
Days After First/Last Applic.	39 39	39 39	39 39	39 39
Trt-Eval Interval	39 DA-A	39 DA-A	39 DA-A	39 DA-A
Plant-Eval Interval	51 DP-1	51 DP-1	51 DP-1	51 DP-1
Days After Emergence	45 DE-1	45 DE-1	45 DE-1	45 DE-1
ARM Action Codes				
Number of Decimals				

Trt No.	Treatment Name	Other Rate	Other Rate	Unit	Appl Code	Appl Description	14	15	16	17
1	UTC						0.0 c	0.0 d	0.0 e	0.0 c
2	BAS 67703 H	20 oz/a			A	POST	100.0 a	100.0 a	20.0 de	80.0 ab
	2 HC MSO	9.6 oz/a			A	POST				
	2 N PAK AMS	1.5 qt/a			A	POST				
3	BAS 67703 H	20 oz/a			A	POST	100.0 a	100.0 a	85.0 ab	100.0 a
	3 Atrazine	32 oz/a			A	POST				
	3 COC	19.2 oz/a			A	POST				
	3 N PAK AMS	1.5 qt/a			A	POST				
4	BAS 67703 H	20 oz/a			A	POST	100.2 a	90.0 a	83.3 ab	63.3 b
	4 Atrazine	32 oz/a			A	POST				
	4 NIS	4.8 oz/a			A	POST				
	4 N PAK AMS	1.5 qt/a			A	POST				
5	Capreno	3 oz/a			A	POST	95.0 b	100.0 a	63.3 bc	63.3 b
	5 COC	19.2 oz/a			A	POST				
	5 N PAK AMS	1.5 qt/a			A	POST				
6	Capreno	3 oz/a			A	POST	100.2 a	95.0 a	86.7 a	100.0 a
	6 Atrazine	32 oz/a			A	POST				
	6 COC	19.2 oz/a			A	POST				
	6 N PAK AMS	1.5 qt/a			A	POST				
7	BAS 67703 H	20 oz/a			A	POST	100.2 a	56.7 c	20.0 de	100.0 a
	7 Roundup PowerMax	16 oz/a			A	POST				
	7 COC	19.2 oz/a			A	POST				
	7 N PAK AMS	1.5 qt/a			A	POST				
8	BAS 67703 H	20 oz/a			A	POST	100.0 a	65.0 c	30.0 d	80.0 ab
	8 Roundup PowerMax	16 oz/a			A	POST				
	8 NIS	4.8 oz/a			A	POST				
	8 N PAK AMS	1.5 qt/a			A	POST				

## The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	ABUTH	HIBTR	IPOHE
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Hibiscus trion>	Ipomoea hedera>
Pest Name	Redroot pigweed	velvetleaf	Venice mallow	Ivyleaf mornin>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	6-23-2015	6-23-2015	6-23-2015	6-23-2015
Rating Type				
Rating Unit				
Number of Subsamples	1	1	1	1
Crop Stage Scale				
Days After First/Last Applic.	39 39	39 39	39 39	39 39
Trt-Eval Interval	39 DA-A	39 DA-A	39 DA-A	39 DA-A
Plant-Eval Interval	51 DP-1	51 DP-1	51 DP-1	51 DP-1
Days After Emergence	45 DE-1	45 DE-1	45 DE-1	45 DE-1
ARM Action Codes				
Number of Decimals				

Trt Treatment No. Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	14	15	16	17
9 Halex GT	64 oz/a		A	POST	100.0 a	100.0 a	56.7 c	100.0 a
9 NIS	4.8 oz/a		A	POST				
9 N PAK AMS	1.5 qt/a		A	POST				
10 BAS 67703 H	20 oz/a		A	POST	100.0 a	78.3 b	80.0 ab	77.5 ab
10 Atrazine	32 oz/a		A	POST				
10 Roundup PowerMax	16 oz/a		A	POST				
10 NIS	4.8 oz/a		A	POST				
10 N PAK AMS	1.5 qt/a		A	POST				
11 BAS 67703 H	20 oz/a		A	POST	100.0 a	100.0 a	100.0 a	95.0 a
11 Atrazine	32 oz/a		A	POST				
11 Roundup PowerMax	16 oz/a		A	POST				
11 COC	19.2 oz/a		A	POST				
11 N PAK AMS	1.5 qt/a		A	POST				
12 Halex GT	64 oz/a		A	POST	100.0 a	100.0 a	85.0 ab	100.0 a
12 Atrazine	32 oz/a		A	POST				
12 NIS	4.8 oz/a		A	POST				
12 N PAK AMS	1.5 qt/a		A	POST				
12								
12								
LSD P=.05					4.36	11.67	22.50	27.76
Standard Deviation					3.02	7.99	15.25	18.82
CV					3.31	9.74	25.78	23.55
Grand Mean					91.30	82.08	59.17	79.93
Bartlett's X2					0.0	3.786	3.05	3.976
P(Bartlett's X2)					.	0.436	0.962	0.553
Skewness					-2.939*	-1.8054*	-0.3715	-1.272*
Kurtosis					7.0395*	2.2329*	-1.1959	0.3134
Replicate F					0.991	0.783	6.822	1.715
Replicate Prob(F)					0.4105	0.5153	0.0024	0.1960
Treatment F					362.848	56.036	19.094	9.430
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001

Armezon Pro Efficacy and Crop Safety

Trial ID: 15BASFPSTC1	Location: Western Branch Big E	Trial Year: 2015
Protocol ID: 15BASFPSTC1	Investigator: Dr. Mark M. Loux	
Project ID: DEV H 2015 US C42	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  
 HIBTR, Hibiscus trionum, = US  
 IPOHE, Ipomoea hederacea, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

PHYNEC = phytotoxicity - necrosis /burn

Rating Unit

% = percent

Plant-Eval Interval

15 DP-1 = 1 ZEAMX 5-3-2015  
 19 DP-1 = 1 ZEAMX 5-3-2015  
 32 DP-1 = 1 ZEAMX 5-3-2015  
 51 DP-1 = 1 ZEAMX 5-3-2015

ARM Action Codes

ET1 = Excluded treatment 1