

## 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

**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

Corn

**Planting Rate, Unit:** 32097 S/A  
**Depth, Unit:** 2 IN  
**Row Spacing, Unit:** 30 IN

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

**Soil Temperature, Unit:** 60 F  
**Soil Moisture:** NORMAL normal, adequate  
**Seed Bed:** MEDIUM medium

**Harvest Date:** 10-1-2015  
**Harvested Width, Unit:** 5 FT  
**Harvested Length, Unit:** 30 FT  
**Harvest Equipment:** Massey Ferguson 8 XP  
**% Standard Moisture:** 15.5  
**Moisture Meter:** Harvest Master  
**Weighing Equipment:** Harvest Master

**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 FT<sup>2</sup>      **Treatments:** 10  
**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

**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      **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**

**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**

**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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Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn
Rating Date	10-1-2015	10-1-2015	10-1-2015	10-1-2015
Rating Type	YIELD	MOICON	YIELD	WEITES
Rating Unit	LBS	%	BU	LBS
Sample Size, Unit	1 PLOT	1 PLOT	1 A	1 BU
Collection Basis, Unit				1 QT
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	126 126	126 126	126 126	126 126
Trt-Eval Interval	127 DA-A	126 DA-A	126 DA-A	126 DA-A
Plant-Eval Interval	151 DP-1	151 DP-1	151 DP-1	151 DP-1
Days After Emergence	145 DE-1	145 DE-1	145 DE-1	145 DE-1
ARM Action Codes			TY1	
Number of Decimals	1	1	1	1

Trt No.	Treatment Name	Other Rate	Other Rate	Unit	Appl Code	Appl Description	31	32	33	34
1	UTC						29.6 e	18.9 a	147.4 d	57.8 a
2	Armezon	0.75 oz/a			A	POST	44.4 abc	19.1 a	220.1 ab	57.7 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	42.9 a-d	18.8 a	213.8 ab	57.4 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	43.4 abc	18.1 a	218.0 ab	57.1 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	46.5 a	18.8 a	231.9 a	57.2 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	46.0 ab	18.8 a	229.2 a	58.1 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	41.7 bcd	19.3 a	206.1 bc	57.8 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	38.3 d	18.5 a	191.2 c	58.0 a
	8 COC	19.2 oz/a			A	POST				
	8 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=31,32,33,34

Trt	Treatment	Other	Other	Appl	Appl					
No.	Name	Rate	Rate	Unit	Code	Description	31	32	33	34
9	DiFlexx	12 oz/a		A	POST		41.1 cd	18.6 a	205.1 bc	57.1 a
9	COC	19.2 oz/a		A	POST					
9	N PAK AMS	48 oz/a		A	POST					
10	DiFlexx	16 oz/a		A	POST		43.5 abc	18.9 a	216.7 ab	57.4 a
10	COC	19.2 oz/a		A	POST					
10	N PAK AMS	48 oz/a		A	POST					
LSD P=.05							4.68	1.00	22.43	0.85
Standard Deviation							3.22	0.69	15.43	0.59
CV							7.71	3.66	7.42	1.02
Grand Mean							41.74	18.78	207.95	57.56
Bartlett's X2							12.914	6.119	12.513	10.545
P(Bartlett's X2)							0.167	0.728	0.186	0.308
Skewness							-1.1207*	-0.4813	-1.1394*	-0.4701
Kurtosis							0.5249	0.4308	0.6261	0.5689
Replicate F							13.613	9.356	13.885	3.389
Replicate Prob(F)							0.0001	0.0002	0.0001	0.0330
Treatment F							9.238	0.890	9.978	1.458
Treatment Prob(F)							0.0001	0.5473	0.0001	0.2156

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

MOICON = moisture content

WEITES = weight - test

Rating Unit

% = percent

BU = bushel

PLOT = total plot

A = acre

BU = bushel

QT = quart

Plant-Eval Interval

151 DP-1 = 1 ZEAMX 5-3-2015

ARM Action Codes

TY1 = 5.185714\*[31]\*(100-@MVAVGREP([32]))/84.5