Purdue Weed Science

Status Armezon Diflexx Crop Safety Trial

Trial ID: 17S-TPAC-CORN-11 Location: TPAC Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-11 Investigator: Dr. Bill Johnson
Project ID: H17C42A Study Director: Dustin Johnson
Sponsor Contact: G. Welker - BASF

General Trial Information

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

Discipline: H herbicide
Trial Status: E established
Initiation Date: Apr-25-2017

Trial Location

City: Lafayette **Country:** USA United States
State/Prov.: Indiana
Postal Code: 47909

Latitude of LL Corner °: 40.29208 N
Longitude of LL Corner °: 86.9115 W

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Dustin Johnson **Title:** Research Associate
Organization: Purdue University
Address: 915 W. State Street
City+State/Prov: West Lafayette, IN
Postal Code: 47907 **E-mail:** john1357@purdue.edu
Country: USA United States

Investigator: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
Address: 915 W. State Street
City+State/Prov: West Lafayette, IN
Postal Code: 47907 **E-mail:** wgj@purdue.edu
Country: USA United States

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: DK62-08STXRIB
Description: RR/LL Stacked

Planting Rate, Unit: 32000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Soil Temperature, Unit: 70 F
Soil Moisture: DRY dry

Planting Date: Apr-25-2017
Planting Method: PLANTD planted
Planting Equipment: PP Plot Planter
Emergence Date: May-15-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 25 FT

% Standard Moisture: 15.5

Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 2 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT2 **Treatments:** 8
Replications: 4

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

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Field Prep./Maintenance:
171 lbs of N as UAN on 4/18/17

Blanket at planting of Verdict @ 16 oz/a on 4/25/17

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:	Jun-6-2017
Appl. Start Time:	11:30 AM
Appl. Stop Time:	11:52 AM
Application Method:	SPRAY
Application Timing:	POSPOS
Application Placement:	BROADC
Applied By:	N. STEPPIG
Air Temperature, Unit:	65 F
% Relative Humidity:	63
Wind Velocity, Unit:	10 MPH
Wind Direction:	ENE
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	71 F
Soil Moisture:	DRY
% Cloud Cover:	10

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMX BCOR
Stage Scale Used:	BBCH
Stage Majority, Percent:	14
Stage Minimum, Percent:	13
Stage Maximum, Percent:	15
Height, Unit:	6 IN
Height Minimum, Maximum:	5 8

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	AMBTR W
Stage Majority, Percent:	14
Stage Minimum, Percent:	10
Stage Maximum, Percent:	19
Height, Unit:	4 IN
Height Minimum, Maximum:	0.5 12
Density, Unit:	6 FT2
Pest 2 Code, Type, Scale:	SETFA W
Stage Majority, Percent:	12
Stage Minimum, Percent:	11
Stage Maximum, Percent:	14
Height, Unit:	1 IN
Height Minimum, Maximum:	0.5 2
Density, Unit:	3.5 FT2

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Application Equipment

	A
Appl. Equipment:	CO2 BACKPACK
Equipment Type:	BACSPR
Operation Pressure, Unit:	29 PSI
Nozzle Type:	AIXR
Nozzle Size:	110015
Nozzle Spacing, Unit:	15 IN
Nozzles/Row:	8
Boom Length, Unit:	10 FT
Boom Height, Unit:	17 IN
Ground Speed, Unit:	3 MPH
Carrier:	WATER
Spray Volume, Unit:	15 GAL/AC
Mix Size, Unit:	1.8 liters
Propellant:	COMCO2

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Reps: 4 Plots: 10 by 30 feet
Spray vol: 15 GAL/AC Mix Size: 1.8 liters (1.5642 liters calculated mix size)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Code	Amt Product to Measure	Rep 1	2	3	4
1	UNTREATED CHECK								101	207	305	406
2	ARMEZON	2.8	LB/GAL	SC	0.75	fl oz/a	A	0.7031 ml/mx	102	204	304	407
	MSO	100	%	SL	1.0	% v/v	A	18.0 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	L	2.5	% v/v	A	45.0 ml/mx				
3	STATUS	56	%	WG	5.0	oz wt/a	A	4.493 g/mx	103	208	302	402
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	A	4.5 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	L	2.5	% v/v	A	45.0 ml/mx				
4	ARMEZON	2.8	LB/GAL	SC	0.75	fl oz/a	A	0.7031 ml/mx	104	201	303	404
	STATUS	56	%	WG	3.75	oz wt/a	A	3.37 g/mx				
	COC	100	%	SL	1.0	% v/v	A	18.0 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	L	2.5	% v/v	A	45.0 ml/mx				
5	DIFLEXX	4	LBAE/GAL	SC	8.0	fl oz/a	A	7.5 ml/mx	105	205	307	405
	COC	100	%	SL	1.0	% v/v	A	18.0 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	L	2.5	% v/v	A	45.0 ml/mx				
6	DIFLEXX	4	LBAE/GAL	SC	12.0	fl oz/a	A	11.25 ml/mx	106	203	306	408
	COC	100	%	SL	1.0	% v/v	A	18.0 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	L	2.5	% v/v	A	45.0 ml/mx				
7	DIFLEXX	4	LBAE/GAL	SC	16.0	fl oz/a	A	15.0 ml/mx	107	206	308	401
	COC	100	%	SL	1.0	% v/v	A	18.0 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	L	2.5	% v/v	A	45.0 ml/mx				
8	DIFLEXX DUO	1.53	LBAE/GAL	SC	32.0	fl oz/a	A	30.0 ml/mx	108	202	301	403
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	A	4.5 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	L	2.5	% v/v	A	45.0 ml/mx				

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
1.758	ml	ARMEZON	2.8	LB/GAL	SC	
22.498	ml	MSO	100	%	SL	
393.707	ml	N-PAK AMS	3.4	LBA/GAL	L	
9.830	g	STATUS	56	%	WG	
11.249	ml	ACTIVATOR 90 NIS	100	%	SL	
89.990	ml	COC	100	%	SL	
42.187	ml	DIFLEXX	4	LBAE/GAL	SC	
37.500	ml	DIFLEXX DUO	1.53	LBAE/GAL	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.

Trial Comments

6/6/17-301 was not sprayed and 304 was sprayed twice.
6/8/17-Performed push bar test with Ford Tractor @ 2.2 mph (Second gear range/third gear @ 2,000 rpms)
6/8/`17-Assessment for this date is a percentage of total number of plants and total number of plants broken in the center two rows.
6/14/17-There was a substanial amount of regrowth from broken corn stalks. Also there were many plots with no giant ragweed including untreated check 101 & 207.

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Sponsor Contact: G. Welker - BASF

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	1	2	3	4	5	6	7
	Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
	Crop Name				Corn	Corn	Corn	Corn	Corn	Corn	Corn
	Part Rated				PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
	Rating Date				Jun-8-2017	Jun-14-2017	Jun-14-2017	Jun-21-2017	Jun-21-2017	Jun-28-2017	Jun-28-2017
	Rating Type				COUNT	PHYLMA	STARED	PHYLMA	STARED	PHYLMA	STARED
	Rating Unit				%	%	%	%	%	%	%
	Number of Subsamples				1	1	1	1	1	1	1
	Assessed By				D. JOHNSON	D. JOHNSON	D. JOHNSON	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER
	Days After First/Last Applic.				2 2	8 8	8 8	15 15	15 15	22 22	22 22
	Trt-Eval Interval				2 DA-A	8 DA-A	8 DA-A	8 DA-A	8 DA-A	8 DA-A	8 DA-A
	Days After Emergence				24 DE-1	30 DE-1	30 DE-1	37 DE-1	37 DE-1	44 DE-1	44 DE-1
	ARM Action Codes					P	P	P	P	P	P
	Number of Decimals					0	0	0	0	0	0
1	UNTREATED CHECK				29.3 ab	0 a	1 b	0 b	0 a	0 a	0 a
2	ARMEZON	0.75	fl oz/a	A	8.8 b	0 a	5 b	8 ab	0 a	22 a	0 a
	MSO	1.0	% v/v	A							
	N-PAK AMS	2.5	% v/v	A							
3	STATUS	5.0	oz wt/a	A	31.0 ab	2 a	25 ab	11 ab	0 a	5 a	0 a
	ACTIVATOR 90 NIS	0.25	% v/v	A							
	N-PAK AMS	2.5	% v/v	A							
4	ARMEZON	0.75	fl oz/a	A	53.5 a	1 a	38 ab	5 ab	0 a	6 a	0 a
	STATUS	3.75	oz wt/a	A							
	COC	1.0	% v/v	A							
	N-PAK AMS	2.5	% v/v	A							
5	DIFLEXX	8.0	fl oz/a	A	38.3 a	0 a	28 ab	4 b	0 a	6 a	0 a
	COC	1.0	% v/v	A							
	N-PAK AMS	2.5	% v/v	A							
6	DIFLEXX	12.0	fl oz/a	A	42.0 a	1 a	36 ab	10 ab	0 a	10 a	0 a
	COC	1.0	% v/v	A							
	N-PAK AMS	2.5	% v/v	A							
7	DIFLEXX	16.0	fl oz/a	A	59.0 a	3 a	56 a	18 ab	0 a	11 a	0 a
	COC	1.0	% v/v	A							
	N-PAK AMS	2.5	% v/v	A							
8	DIFLEXX DUO	32.0	fl oz/a	A	58.1 a	3 a	63 a	23 a	4 a	22 a	0 a
	ACTIVATOR 90 NIS	0.25	% v/v	A							
	N-PAK AMS	2.5	% v/v	A							
	LSD P=.05				19.14	2.8	25.2	12.4	3.9	15.9	.
	Standard Deviation				12.93	1.9	17.2	8.4	2.7	10.8	0.0
	CV				32.34	153.05	54.64	84.44	565.69	104.13	0.0
	Bartlett's X2				6.304	0.909	12.467	1.162	0.0	10.607	0.0
	P(Bartlett's X2)				0.505	0.923	0.086	0.979	.	0.101	.
	Skewness				0.2922	1.209*	0.4147	0.5767	5.6569*	2.0502*	.
	Kurtosis				-1.0661	-0.184	-1.1111	-1.0863	32.0*	5.4958*	.
	Replicate F				9.556	0.306	2.485	1.470	1.000	1.365	0.000
	Replicate Prob(F)				0.0005	0.8207	0.0886	0.2543	0.4123	0.2836	1.0000
	Treatment F				7.005	1.613	6.417	3.296	1.000	2.177	0.000
	Treatment Prob(F)				0.0003	0.1920	0.0004	0.0181	0.4586	0.0841	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Missing data estimates are included in columns:Yates=1,2,4,6,8,9,10,11,12
Could not calculate LSD (% mean diff) for columns 7,8 because error mean square = 0.

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Sponsor Contact: G. Welker - BASF

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	8	9	10	11	12
	Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
	Crop Name				Corn	Corn	Corn	Corn	Corn
	Part Rated				PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
	Rating Date				Jul-13-2017	Jul-19-2017	Oct-21-2017	Oct-21-2017	Oct-21-2017
	Rating Type				PHYLMA-ROOT	PHYLMA	YIELD	MOICON	YIELD
	Rating Unit				%	%	LB	%	bu/ac
	Number of Subsamples				1	1	1	1	1
	Assessed By				D. JOHNSON	D. JOHNSON	T. CAMPBELL	T. CAMPBELL	T. CAMPBELL
	Days After First/Last Applic.				37 37	43 43	137 137	137 137	137 137
	Trt-Eval Interval				8 DA-A	8 DA-A	137 DA-A	137 DA-A	137 DA-A
	Days After Emergence				59 DE-1	65 DE-1	159 DE-1	159 DE-1	159 DE-1
	ARM Action Codes				P	P			TY2
	Number of Decimals				0	0	1	1	1
1	UNTREATED CHECK				0 a	0 b	19.1 a	16.5 a	117.1 a
2	ARMEZON	0.75	fl oz/a	A	0 a	0 b	25.9 a	15.6 a	161.2 a
	MSO	1.0	% v/v	A					
	N-PAK AMS	2.5	% v/v	A					
3	STATUS	5.0	oz wt/a	A	0 a	1 b	23.5 a	16.0 a	145.0 a
	ACTIVATOR 90 NIS	0.25	% v/v	A					
	N-PAK AMS	2.5	% v/v	A					
4	ARMEZON	0.75	fl oz/a	A	0 a	5 ab	20.9 a	15.8 a	129.7 a
	STATUS	3.75	oz wt/a	A					
	COC	1.0	% v/v	A					
	N-PAK AMS	2.5	% v/v	A					
5	DIFLEXX	8.0	fl oz/a	A	0 a	3 ab	28.3 a	16.1 a	174.6 a
	COC	1.0	% v/v	A					
	N-PAK AMS	2.5	% v/v	A					
6	DIFLEXX	12.0	fl oz/a	A	0 a	3 ab	26.3 a	16.5 a	161.9 a
	COC	1.0	% v/v	A					
	N-PAK AMS	2.5	% v/v	A					
7	DIFLEXX	16.0	fl oz/a	A	0 a	4 ab	22.1 a	17.1 a	135.0 a
	COC	1.0	% v/v	A					
	N-PAK AMS	2.5	% v/v	A					
8	DIFLEXX DUO	32.0	fl oz/a	A	0 a	9 a	23.6 a	16.4 a	144.9 a
	ACTIVATOR 90 NIS	0.25	% v/v	A					
	N-PAK AMS	2.5	% v/v	A					
	LSD P=.05				.	4.8	8.13	1.26	49.25
	Standard Deviation				0.0	3.3	5.49	0.85	33.28
	CV				0.0	107.68	23.16	5.22	22.77
	Bartlett's X2				0.0	2.688	3.822	12.331	4.085
	P(Bartlett's X2)				.	0.611	0.80	0.09	0.77
	Skewness				.	0.9079*	0.0088	0.7322	0.0041
	Kurtosis				.	-0.9992	-0.2671	0.2452	-0.254
	Replicate F				0.000	2.986	3.397	0.743	3.439
	Replicate Prob(F)				1.0000	0.0570	0.0391	0.5394	0.0376
	Treatment F				0.000	3.464	1.220	1.319	1.304
	Treatment Prob(F)				1.0000	0.0146	0.3395	0.2947	0.3014

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Missing data estimates are included in columns:Yates=1,2,4,6,8,9,10,11,12
Could not calculate LSD (% mean diff) for columns 7,8 because error mean square = 0.

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Crop Code
ZEAMX, BCOR, Zea mays, Corn = US
Part Rated
PLOT = plot
Rating Type
COUNT = count
PHYLMA = phytotoxicity - leaf malformation
STARED = stand reduction
YIELD = yield
MOICON = moisture content
Rating Unit
% = percent
LB = pound
bu/ac = bushels per acre
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY2 = 6.222857*[10]*(100-@MVAVGREP([11]))/84.5

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Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Plot	1	2	3	4	5	6
	Crop Code					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
	Crop Name					Corn	Corn	Corn	Corn	Corn	Corn
	Part Rated					PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
	Rating Date					Jun-8-2017	Jun-14-2017	Jun-14-2017	Jun-21-2017	Jun-21-2017	Jun-28-2017
	Rating Type					COUNT	PHYLMA	STARED	PHYLMA	STARED	PHYLMA
	Rating Unit					%	%	%	%	%	%
	Number of Subsamples					1	1	1	1	1	1
	Assessed By					D. JOHNSON	D. JOHNSON	D. JOHNSON	M. ZIMMER	M. ZIMMER	M. ZIMMER
	Days After First/Last Applic.					2 2	8 8	8 8	15 15	15 15	22 22
	Trt-Eval Interval					2 DA-A	8 DA-A	8 DA-A	8 DA-A	8 DA-A	8 DA-A
	Days After Emergence					24 DE-1	30 DE-1	30 DE-1	37 DE-1	37 DE-1	44 DE-1
	ARM Action Codes						P	P	P	P	P
	Number of Decimals						0	0	0	0	0
1	UNTREATED CHECK				101	15.0	0	0	0	0	0
					207	13.0	0	0	0	0	0
					305	18.0	0	0	0	0	0
					406	71.0	0	5	0	0	0
					Mean =	29.3	0	1	0	0	0
2	ARMEZON	0.75	fl oz/a	A	102	10.0	0	0	20	0	10
	MSO	1.0	% v/v	A	204	7.0	0	5	5	0	55
	N-PAK AMS	2.5	% v/v	A	304	0.0*	1*	0	9*	0	18*
					407	18.0	0	15	0	0	5
					Mean =	8.8	0	5	8	0	22
3	STATUS	5.0	oz wt/a	A	103	32.0	0	40	20	0	20
	ACTIVATOR 90 NIS	0.25	% v/v	A	208	43.0	0	40	0	0	0
	N-PAK AMS	2.5	% v/v	A	302	13.0	5	0	15	0	0
					402	36.0	3	20	10	0	0
					Mean =	31.0	2	25	11	0	5
4	ARMEZON	0.75	fl oz/a	A	104	46.0	0	20	0	0	0
	STATUS	3.75	oz wt/a	A	201	69.0	0	70	0	0	10
	COC	1.0	% v/v	A	303	28.0	5	10	15	0	5
	N-PAK AMS	2.5	% v/v	A	404	71.0	0	50	5	0	10
					Mean =	53.5	1	38	5	0	6
5	DIFLEXX	8.0	fl oz/a	A	105	27.0	0	10	0	0	0
	COC	1.0	% v/v	A	205	42.0	0	20	15	0	10
	N-PAK AMS	2.5	% v/v	A	307	32.0	0	25	0	0	0
					405	52.0	0	55	0	0	15
					Mean =	38.3	0	28	4	0	6
6	DIFLEXX	12.0	fl oz/a	A	106	30.0	3	25	20	0	10
	COC	1.0	% v/v	A	203	39.0	0	55	20	0	20
	N-PAK AMS	2.5	% v/v	A	306	26.0	0	15	0	0	0
					408	73.0	0	50	0	0	10
					Mean =	42.0	1	36	10	0	10
7	DIFLEXX	16.0	fl oz/a	A	107	55.0	5	50	25	0	20
	COC	1.0	% v/v	A	206	49.0	3	35	5	0	5
	N-PAK AMS	2.5	% v/v	A	308	53.0	0	60	20	0	10
					401	79.0	3	80	20	0	10
					Mean =	59.0	3	56	18	0	11
8	DIFLEXX DUO	32.0	fl oz/a	A	108	73.0	0	75	30	15	30
	ACTIVATOR 90 NIS	0.25	% v/v	A	202	35.0	5	30	30	0	30
	N-PAK AMS	2.5	% v/v	A	301	44.2*	3*	65	24*	0	18*
					403	80.0	3	80	10	0	10
					Mean =	58.1	3	63	23	4	22

Purdue Weed Science

Status Armezon Diflexx Crop Safety Trial

Trial ID: 17S-TPAC-CORN-11 Location: TPAC Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-11 Investigator: Dr. Bill Johnson
Project ID: H17C42A Study Director: Dustin Johnson
Sponsor Contact: G. Welker - BASF

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Plot	7	8	9	10	11
	Crop Code					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
	Crop Name					Corn	Corn	Corn	Corn	Corn
	Part Rated					PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
	Rating Date					Jun-28-2017	Jul-13-2017	Jul-19-2017	Oct-21-2017	Oct-21-2017
	Rating Type					STARED	PHYLMA-ROOT	PHYLMA	YIELD	MOICON
	Rating Unit					%	%	%	LB	%
	Number of Subsamples					1	1	1	1	1
	Assessed By					M. ZIMMER	D. JOHNSON	D. JOHNSON	T. CAMPBELL	T. CAMPBELL
	Days After First/Last Applic.					22 22	37 37	43 43	137 137	137 137
	Trt-Eval Interval					8 DA-A	8 DA-A	8 DA-A	137 DA-A	137 DA-A
	Days After Emergence					44 DE-1	59 DE-1	65 DE-1	159 DE-1	159 DE-1
	ARM Action Codes					P	P	P		
	Number of Decimals					0	0	0	1	1
1	UNTREATED CHECK				101	0	0	0	24.0	16.5
					207	0	0	0	27.1	17.6
					305	0	0	0	14.5	16.1
					406	0	0	0	10.7	15.8
					Mean =	0	0	0	19.1	16.5
2	ARMEZON	0.75	fl oz/a	A	102	0	0	0	22.9	15.2
	MSO	1.0	% v/v	A	204	0	0	0	25.7	15.5
	N-PAK AMS	2.5	% v/v	A	304	0	0*	0*	26.0*	15.3*
					407	0	0	0	29.1	16.4
					Mean =	0	0	0	25.9	15.6
3	STATUS	5.0	oz wt/a	A	103	0	0	5	17.8	15.6
	ACTIVATOR 90 NIS	0.25	% v/v	A	208	0	0	0	26.7	17.6
	N-PAK AMS	2.5	% v/v	A	302	0	0	0	24.2	15.0
					402	0	0	0	25.1	15.8
					Mean =	0	0	1	23.5	16.0
4	ARMEZON	0.75	fl oz/a	A	104	0	0	0	28.6	15.9
	STATUS	3.75	oz wt/a	A	201	0	0	10	17.6	16.1
	COC	1.0	% v/v	A	303	0	0	0	24.1	15.6
	N-PAK AMS	2.5	% v/v	A	404	0	0	10	13.4	15.6
					Mean =	0	0	5	20.9	15.8
5	DIFLEXX	8.0	fl oz/a	A	105	0	0	0	35.1	16.2
	COC	1.0	% v/v	A	205	0	0	0	30.2	16.5
	N-PAK AMS	2.5	% v/v	A	307	0	0	0	31.3	16.2
					405	0	0	10	16.5	15.4
					Mean =	0	0	3	28.3	16.1
6	DIFLEXX	12.0	fl oz/a	A	106	0	0	0	37.0	16.7
	COC	1.0	% v/v	A	203	0	0	5	20.5	16.4
	N-PAK AMS	2.5	% v/v	A	306	0	0	0	27.7	15.7
					408	0	0	5	20.1	17.2
					Mean =	0	0	3	26.3	16.5
7	DIFLEXX	16.0	fl oz/a	A	107	0	0	5	26.6	16.7
	COC	1.0	% v/v	A	206	0	0	0	24.7	17.2
	N-PAK AMS	2.5	% v/v	A	308	0	0	0	18.8	17.6
					401	0	0	10	18.3	16.9
					Mean =	0	0	4	22.1	17.1
8	DIFLEXX DUO	32.0	fl oz/a	A	108	0	0	10	29.6	18.5
	ACTIVATOR 90 NIS	0.25	% v/v	A	202	0	0	10	22.3	15.1
	N-PAK AMS	2.5	% v/v	A	301	0	0*	7*	23.7*	16.1*
					403	0	0	10	18.8	16.0
					Mean =	0	0	9	23.6	16.4

Purdue Weed Science

Status Armezon Diflexx Crop Safety Trial

Trial ID: 17S-TPAC-CORN-11 Location: TPAC Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-11 Investigator: Dr. Bill Johnson
Project ID: H17C42A Study Director: Dustin Johnson
Sponsor Contact: G. Welker - BASF

Crop Code	ZEAMX
Crop Name	Corn
Part Rated	PLOT -
Rating Date	Oct-21-2017
Rating Type	YIELD
Rating Unit	bu/ac
Number of Subsamples	1
Assessed By	T. CAMPBELL
Days After First/Last Applic.	137 137
Trt-Eval Interval	137 DA-A
Days After Emergence	159 DE-1
ARM Action Codes	TY2
Number of Decimals	1

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Plot	12
1	UNTREATED CHECK				101	147.5
					207	164.5
					305	89.7
					406	66.5
					Mean =	117.1
2	ARMEZON	0.75	fl oz/a	A	102	142.8
	MSO	1.0	% v/v	A	204	160.2
	N-PAK AMS	2.5	% v/v	A	304	162.4*
					407	179.4
					Mean =	161.2
3	STATUS	5.0	oz wt/a	A	103	110.8
	ACTIVATOR 90 NIS	0.25	% v/v	A	208	162.0
	N-PAK AMS	2.5	% v/v	A	302	151.3
					402	155.8
					Mean =	145.0
4	ARMEZON	0.75	fl oz/a	A	104	176.9
	STATUS	3.75	oz wt/a	A	201	108.9
	COC	1.0	% v/v	A	303	149.9
	N-PAK AMS	2.5	% v/v	A	404	83.2
					Mean =	129.7
5	DIFLEXX	8.0	fl oz/a	A	105	216.4
	COC	1.0	% v/v	A	205	185.9
	N-PAK AMS	2.5	% v/v	A	307	193.3
					405	102.7
					Mean =	174.6
6	DIFLEXX	12.0	fl oz/a	A	106	226.8
	COC	1.0	% v/v	A	203	126.0
	N-PAK AMS	2.5	% v/v	A	306	172.1
					408	122.7
					Mean =	161.9
7	DIFLEXX	16.0	fl oz/a	A	107	163.4
	COC	1.0	% v/v	A	206	150.7
	N-PAK AMS	2.5	% v/v	A	308	114.2
					401	111.7
					Mean =	135.0
8	DIFLEXX DUO	32.0	fl oz/a	A	108	177.6
	ACTIVATOR 90 NIS	0.25	% v/v	A	202	139.4
	N-PAK AMS	2.5	% v/v	A	301	146.1*
					403	116.4
					Mean =	144.9

Purdue Weed Science

Status Armezon Diflexx Crop Safety Trial

Trial ID: 17S-TPAC-CORN-11 Location: TPAC Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-11 Investigator: Dr. Bill Johnson
Project ID: H17C42A Study Director: Dustin Johnson
Sponsor Contact: G. Welker - BASF

Crop Code
ZEAMX, BCOR, Zea mays, Corn = US
Part Rated
PLOT = plot
Rating Type
COUNT = count
PHYLMA = phytotoxicity - leaf malformation
STARED = stand reduction
YIELD = yield
MOICON = moisture content
Rating Unit
% = percent
LB = pound
bu/ac = bushels per acre
ARM Action Codes
P = Rating scale of 0 to 100 (e.g. % control or injury)
TY2 = 6.222857*[10]*(100-@MVAVGREP([11]))/84.5