

Purdue Weed Science

Diflexx Duo / MPOST / Efficacy / Tolerance / Competition		
Trial ID: 17S-MGS-Corn-12	Location: Meigs	Trial Year: 2017
Protocol ID: 17S-MGS-Corn-12	Investigator: Dr. Bill Johnson	
Project ID: HP17USAWMX	Study Director: Taylor Campbell	
Sponsor Contact: Alan Kurtz - Bayer		

General Trial Information	
Study Director: Taylor Campbell	
Investigator: Dr. Bill Johnson	
Discipline: H	herbicide
Trial Status: E	established
Initiation Date: 4/17/2017	
Trial Location	
City: Lafayette	Country: USA United States
State/Prov.: Indiana	
Postal Code: 47909	
Conducted Under GLP: No	
Conducted Under GEP: No	

Contacts	
Study Director: Taylor Campbell	
Organization: Purdue University	
Address: 915 W State Street	
City+State/Prov: West Lafayette, IN	
Postal Code: 47907	
Country: USA United States	
Investigator: Dr. Bill Johnson	
Organization: Purdue University	
Address: 915 W State Street	
City+State/Prov: West Lafayette, IN	
Postal Code: 47907	
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
Variety: DKC62-08RIB	
Description: LL/RR Stacked	
Planting Rate, Unit: 32000	S/A
Depth, Unit: 1.25	IN
Row Spacing, Unit: 30	IN
Soil Temperature, Unit: 73	F
Soil Moisture: SLIWET slightly wet, moist	
Planting Date: 5/15/2017	
Planting Method: PLANTD	planted
Planting Equipment: FPP	Finger Pickup Planter
Emergence Date: 5/22/2017	

Pest Description	
Pest 1 Type: W	Code: AMATA <i>Amaranthus tamariscinus</i>
Common Name: Common waterhemp	
Pest 2 Type: W	Code: SETFA <i>Setaria faberi</i>
Common Name: Giant foxtail	

Treated Plot Width: 6.67 FT		Site and Design	
Treated Plot Length: 25 FT		Site Type: FIELD field	
Treated Plot Area: 166.75 FT ²		Experimental Unit: 1 PLOT plot	
Treatments: 12		Tillage Type: NOTILL no-till	
Replications: 4		Study Design: RACOB L Randomized Complete Block (RCB)	

Maintenance								
No.	Date	Type	Maintenance Product Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	4/13/2017	HERB	ROUNDUP POWERMAX	4.5	LBAE/GA	SL	32	FL OZ/A
2.	4/13/2017	HERB	SHREDDER 2,4-D LV4	3.8	LBAE/GA	SL	1	PT/A
3.	4/13/2017	ADJ	N-PAK	3.4	LBA/GAL	L	2.5	% V/V

Field Prep./Maintenance:
The trial area was cleaned with glyphosate and 2,4-D to allow waterhemp to emerge.

180 lb of N were broadcast on top of the soil surface in the form of Urea on May 11 followed by a rain that afternoon.

Soil Description			
Description Name: MGS-S3			
% Sand: 40.7	% OM: 2.3	Texture: L loam	
% Silt: 38.6	pH: 6.5	Soil Name: Starks-Fincastle complex	
% Clay: 20.7	CEC: 14.3	Fert. Level: G good	

Application Description	
	A
Application Date:	6/5/2017
Appl. Start Time:	3:15 PM
Appl. Stop Time:	3:45 PM
Application Method:	SPRAY
Application Timing:	POSPOS
Application Placement:	BROADC
Applied By:	T. Campbell
Air Temperature, Unit:	86 F
% Relative Humidity:	40
Wind Velocity, Unit:	5 MPH
Wind Direction:	SE
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	92
Soil Moisture:	SLIDRY
% Cloud Cover:	40

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:	8
Height Minimum, Maximum:	6 12

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	AMATA W
Stage Majority, Percent:	14
Stage Minimum, Percent:	12
Stage Maximum, Percent:	18
Height, Unit:	5
Height Minimum, Maximum:	1 8
Density, Unit:	40 FT2
Pest 2 Code, Type, Scale:	SETFA W
Stage Majority, Percent:	14
Stage Minimum, Percent:	12
Stage Maximum, Percent:	16
Height, Unit:	6
Height Minimum, Maximum:	5 12
Density, Unit:	10 FT2

Application Equipment

	A
Appl. Equipment:	CO2 BACKPACK
Equipment Type:	BACCAI
Operation Pressure, Unit:	28 PSI
Nozzle Type:	XR
Nozzle Size:	11002
Nozzle Spacing, Unit:	20 IN
Nozzles/Row:	4
Boom Length, Unit:	6.7 FT
Boom Height, Unit:	20 IN
Ground Speed, Unit:	3 MPH
Spray Volume, Unit:	15 GAL/AC
Mix Size, Unit:	945 mL
Propellant:	COMCO2

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Diflexx Duo / MPOST / Efficacy / Tolerance / Competition			
Trial ID: 17S-MGS-Corn-12		Location: Meigs	
Protocol ID: 17S-MGS-Corn-12		Investigator: Dr. Bill Johnson	
Project ID: HP17USAWMX		Study Director: Taylor Campbell	
Sponsor Contact: Alan Kurtz - Bayer			

Reps: 4 Plots: 6.67 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 945 mL (869.45 mL calculated mix size)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Appl Unit	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	UNTREATED								101	403	605	805
2	DIFLEXX DUO	1.53	LBAE/GAL	SC	32 fl oz/a	A		15.75 ml/mx	102	406	502	703
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	A		15.75 ml/mx				
	AATREX	4	LB/GAL	L	16 fl oz/a	A		7.875 ml/mx				
	N-PAK	3.4	LBA/GAL	L	2.5 % v/v	A		23.62 ml/mx				
3	DIFLEXX DUO	1.53	LBAE/GAL	SC	32 fl oz/a	A		15.75 ml/mx	103	303	602	704
	AATREX	4	LB/GAL	L	16 fl oz/a	A		7.875 ml/mx				
	COC	100 %		SL	1 % v/v	A		9.449 ml/mx				
	N-PAK	3.4	LBA/GAL	L	2.5 % v/v	A		23.62 ml/mx				
4	DIFLEXX DUO	1.53	LBAE/GAL	SC	24 fl oz/a	A		11.81 ml/mx	104	305	601	804
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	A		15.75 ml/mx				
	AATREX	4	LB/GAL	L	16 fl oz/a	A		7.875 ml/mx				
	N-PAK	3.4	LBA/GAL	L	2.5 % v/v	A		23.62 ml/mx				
5	DIFLEXX DUO	1.53	LBAE/GAL	SC	24 fl oz/a	A		11.81 ml/mx	105	402	501	701
	LIBERTY 280 SL	2.34	LB/GAL	SL	32 fl oz/a	A		15.75 ml/mx				
	AATREX	4	LB/GAL	L	16 fl oz/a	A		7.875 ml/mx				
	N-PAK	3.4	LBA/GAL	L	2.5 % v/v	A		23.62 ml/mx				
6	CAPRENO	3.45	LB/GAL	L	3 fl oz/a	A		1.477 ml/mx	106	304	504	702
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	A		15.75 ml/mx				
	AATREX	4	LB/GAL	L	16 fl oz/a	A		7.875 ml/mx				
	N-PAK	3.4	LBA/GAL	L	2.5 % v/v	A		23.62 ml/mx				
7	HALEX GT	4.389	LBAE/GAL	L	57.6 fl oz/a	A		28.35 ml/mx	201	302	503	706
	AATREX	4	LB/GAL	L	16 fl oz/a	A		7.875 ml/mx				
	NIS	100 %		SL	0.25 % v/v	A		2.362 ml/mx				
	N-PAK	3.4	LBA/GAL	L	2.5 % v/v	A		23.62 ml/mx				
8	ARMEZON	2.8	LB/GAL	L	0.5717 fl oz/a	A		0.2814 ml/mx	202	306	506	802
	OUTLOOK	6	LB/GAL	EC	14.01 fl oz/a	A		6.896 ml/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	A		15.75 ml/mx				
	AATREX	4	LB/GAL	L	16 fl oz/a	A		7.875 ml/mx				
9	ARMEZON	2.8	LB/GAL	L	0.5717 fl oz/a	A		0.2814 ml/mx	203	301	604	803
	STATUS	56 %		DG	3 oz/a	A		1.415 g/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	A		15.75 ml/mx				
	AATREX	4	LB/GAL	L	16 fl oz/a	A		7.875 ml/mx				
10	ARMEZON	2.8	LB/GAL	L	0.5717 fl oz/a	A		0.2814 ml/mx	204	404	606	705
	STATUS	56 %		DG	3 oz/a	A		1.415 g/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	A		15.75 ml/mx				
	AATREX	4	LB/GAL	L	16 fl oz/a	A		7.875 ml/mx				
11	ARMEZON	2.8	LB/GAL	L	0.5717 fl oz/a	A		0.2814 ml/mx	205	405	603	801
	STATUS	56 %		DG	3 oz/a	A		1.415 g/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	A		15.75 ml/mx				
	AATREX	4	LB/GAL	L	16 fl oz/a	A		7.875 ml/mx				
12	ARMEZON	2.8	LB/GAL	L	0.5717 fl oz/a	A		0.2814 ml/mx	206	401	505	806
	STATUS	56 %		DG	3 oz/a	A		1.415 g/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	A		15.75 ml/mx				
	AATREX	4	LB/GAL	L	16 fl oz/a	A		7.875 ml/mx				

Sort Order: Replicate 1

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Diflexx Duo / MPOST / Efficacy / Tolerance / Competition

Trial ID: 17S-MGS-Corn-12 Location: Meigs Trial Year: 2017
 Protocol ID: 17S-MGS-Corn-12 Investigator: Dr. Bill Johnson
 Project ID: HP17USAWMX Study Director: Taylor Campbell
 Sponsor Contact: Alan Kurtz - Bayer

Pest Type	W Weed		W Weed	
Pest Code	AMATA		AMATA	
Pest Name	Common waterhe>		Common waterhe>	
Crop Code		ZEAMX		ZEAMX
Crop Name		Corn		Corn
Rating Date	6/12/2017	6/12/2017	6/20/2017	6/20/2017
Rating Type	CONTRO	PHYGEN	CONTRO	PHYGEN
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Assessed By	T. Campbell	T. Campbell	T. Campbell	T. Campbell
Days After First/Last Applic.	7 7	7 7	15 15	15 15
Trt-Eval Interval	7 DA-A	7 DA-A	15 DA-A	15 DA-A
Days After Emergence	21 DE-1	21 DE-1	29 DE-1	29 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit Code Plot		1	2
1 UNTREATED	101		0	0
	403		0	0
	605		0	0
	805		0	0
	Mean =		0	0
2 DIFLEXX DUO	32 fl oz/a A 102		90	0
ROUNDUP POWERMAX	32 fl oz/a A 406		65	0
AATREX	16 fl oz/a A 502		75	0
N-PAK	2.5 % v/v A 703		75	0
	Mean =		76	0
3 DIFLEXX DUO	32 fl oz/a A 103		90	0
AATREX	16 fl oz/a A 303		65	0
COC	1 % v/v A 602		70	0
N-PAK	2.5 % v/v A 704		75	0
	Mean =		75	0
4 DIFLEXX DUO	24 fl oz/a A 104		90	0
ROUNDUP POWERMAX	32 fl oz/a A 305		75	0
AATREX	16 fl oz/a A 601		85	0
N-PAK	2.5 % v/v A 804		75	0
	Mean =		81	0
5 DIFLEXX DUO	24 fl oz/a A 105		95	0
LIBERTY 280 SL	32 fl oz/a A 402		80	0
AATREX	16 fl oz/a A 501		80	0
N-PAK	2.5 % v/v A 701		90	0
	Mean =		86	0
6 CAPRENO	3 fl oz/a A 106		70	0
ROUNDUP POWERMAX	32 fl oz/a A 304		70	0
AATREX	16 fl oz/a A 504		75	0
N-PAK	2.5 % v/v A 702		80	0
	Mean =		74	0
7 HALEX GT	57.6 fl oz/a A 201		70	0
AATREX	16 fl oz/a A 302		70	0
NIS	0.25 % v/v A 503		85	0
N-PAK	2.5 % v/v A 706		75	0
	Mean =		75	0

Pest Type	W Weed		W Weed	
Pest Code	AMATA		AMATA	
Pest Name	Common waterhe>		Common waterhe>	
Crop Code		ZEAMX		ZEAMX
Crop Name		Corn		Corn
Rating Date	6/12/2017	6/12/2017	6/20/2017	6/20/2017
Rating Type	CONTRO	PHYGEN	CONTRO	PHYGEN
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Assessed By	T. Campbell	T. Campbell	T. Campbell	T. Campbell
Days After First/Last Applic.	7 7	7 7	15 15	15 15
Trt-Eval Interval	7 DA-A	7 DA-A	15 DA-A	15 DA-A
Days After Emergence	21 DE-1	21 DE-1	29 DE-1	29 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate	Unit Code Plot	1	2
8 ARMEZON	0.5717 fl oz/a	A 202	70	0
OUTLOOK	14.01 fl oz/a	A 306	70	0
ROUNDUP POWERMAX	32 fl oz/a	A 506	70	0
AATREX	16 fl oz/a	A 802	70	0
N-PAK	2.5 % v/v	A		100
	Mean =		70	0
9 ARMEZON	0.5717 fl oz/a	A 203	70	0
STATUS	3 oz/a	A 301	70	0
ROUNDUP POWERMAX	32 fl oz/a	A 604	75	0
AATREX	16 fl oz/a	A 803	65	0
N-PAK	2.5 % v/v	A		95
	Mean =		70	0
10 DIFLEXX	10 fl oz/a	A 204	70	0
ROUNDUP POWERMAX	32 fl oz/a	A 404	75	0
AATREX	16 fl oz/a	A 606	70	0
N-PAK	2.5 % v/v	A 705	65	0
	Mean =		70	0
11 LAUDIS	3 fl oz/a	A 205	70	0
ROUNDUP POWERMAX	32 fl oz/a	A 405	70	0
AATREX	16 fl oz/a	A 603	70	0
N-PAK	2.5 % v/v	A 801	85	0
	Mean =		74	0
12 LAUDIS	3 fl oz/a	A 206	65	0
DIFLEXX	8 fl oz/a	A 401	70	0
AATREX	16 fl oz/a	A 505	70	0
COC	1 % v/v	A 806	80	0
N-PAK	2.5 % v/v	A		100
	Mean =		71	0
				95
				95
				95
				100
				96
				95
				95
				100
				95
				70
				90
				80
				75
				79
				95
				95
				100
				100
				100
				100
				100

				W Weed AMATA	W Weed AMATA
Pest Type				Common waterhe>	Common waterhe>
Pest Code					
Pest Name					
Crop Code					
Crop Name					
Rating Date				7/3/2017	7/17/2017
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				T. Campbell	T. Campbell
Days After First/Last Applic.				28 28	42 42
Trt-Eval Interval				28 DA-A	28 DA-A
Days After Emergence				42 DE-1	56 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Appl Unit Code Plot	5	6
1	UNTREATED		101	0	0
			403	0	0
			605	0	0
			805	0	0
			Mean =	0	0
2	DIFLEXX DUO	32 fl oz/a A	102	100	100
	ROUNDUP POWERMAX	32 fl oz/a A	406	98	98
	AATREX	16 fl oz/a A	502	85	85
	N-PAK	2.5 % v/v A	703	98	98
			Mean =	95	95
3	DIFLEXX DUO	32 fl oz/a A	103	100	100
	AATREX	16 fl oz/a A	303	100	100
	COC	1 % v/v A	602	100	100
	N-PAK	2.5 % v/v A	704	100	100
			Mean =	100	100
4	DIFLEXX DUO	24 fl oz/a A	104	100	100
	ROUNDUP POWERMAX	32 fl oz/a A	305	98	98
	AATREX	16 fl oz/a A	601	90	90
	N-PAK	2.5 % v/v A	804	95	95
			Mean =	96	96
5	DIFLEXX DUO	24 fl oz/a A	105	95	95
	LIBERTY 280 SL	32 fl oz/a A	402	95	95
	AATREX	16 fl oz/a A	501	100	100
	N-PAK	2.5 % v/v A	701	75	75
			Mean =	91	91
6	CAPRENO	3 fl oz/a A	106	95	95
	ROUNDUP POWERMAX	32 fl oz/a A	304	100	100
	AATREX	16 fl oz/a A	504	100	100
	N-PAK	2.5 % v/v A	702	100	100
			Mean =	99	99
7	HALEX GT	57.6 fl oz/a A	201	100	100
	AATREX	16 fl oz/a A	302	100	100
	NIS	0.25 % v/v A	503	90	90
	N-PAK	2.5 % v/v A	706	95	95
			Mean =	96	96

Pest Type		W Weed	W Weed
Pest Code		AMATA	AMATA
Pest Name		Common waterhe>	Common waterhe>
Crop Code			
Crop Name			
Rating Date		7/3/2017	7/17/2017
Rating Type		CONTRO	CONTRO
Rating Unit		%	%
Number of Subsamples		1	1
Assessed By		T. Campbell	T. Campbell
Days After First/Last Applic.		28 28	42 42
Trt-Eval Interval		28 DA-A	28 DA-A
Days After Emergence		42 DE-1	56 DE-1
ARM Action Codes		P	P
Number of Decimals		0	0
Trt Treatment	Rate Appl		
No. Name	Rate Unit Code Plot	5	6
8 ARMEZON	0.5717 fl oz/a A 202	90	90
OUTLOOK	14.01 fl oz/a A 306	100	100
ROUNDUP POWERMAX	32 fl oz/a A 506	100	100
AATREX	16 fl oz/a A 802	100	100
N-PAK	2.5 % v/v A		
	Mean =	98	98
9 ARMEZON	0.5717 fl oz/a A 203	95	95
STATUS	3 oz/a A 301	90	90
ROUNDUP POWERMAX	32 fl oz/a A 604	85	85
AATREX	16 fl oz/a A 803	80	80
N-PAK	2.5 % v/v A		
	Mean =	88	88
10 DIFLEXX	10 fl oz/a A 204	80	80
ROUNDUP POWERMAX	32 fl oz/a A 404	80	80
AATREX	16 fl oz/a A 606	80	80
N-PAK	2.5 % v/v A 705	70	70
	Mean =	78	78
11 LAUDIS	3 fl oz/a A 205	95	95
ROUNDUP POWERMAX	32 fl oz/a A 405	85	85
AATREX	16 fl oz/a A 603	90	90
N-PAK	2.5 % v/v A 801	90	90
	Mean =	90	90
12 LAUDIS	3 fl oz/a A 206	100	100
DIFLEXX	8 fl oz/a A 401	100	100
AATREX	16 fl oz/a A 505	100	100
COC	1 % v/v A 806	100	100
N-PAK	2.5 % v/v A		
	Mean =	100	100

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Project ID: HP17USAWMX	Study Director: Taylor Campbell	
Sponsor Contact: Alan Kurtz - Bayer		

<u>Pest Type</u> W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
<u>Pest Code</u> AMATA, Amaranthus tamariscinus, Common waterhemp = US
<u>Crop Code</u> ZEAMX, BCOR, Zea mays, Corn = US
<u>Rating Type</u> CONTRO = control / burndown or knockdown PHYGEN = phytotoxicity - general / injury
<u>Rating Unit</u> % = percent
<u>ARM Action Codes</u> P = Rating scale of 0 to 100 (e.g. % control or injury)

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Project ID: HP17USAWMX	Study Director: Taylor Campbell		
Sponsor Contact: Alan Kurtz - Bayer			

Pest Type Pest Code Pest Name	W Weed AMATA Common waterhe>	W Weed AMATA Common waterhe>	W Weed AMATA Common waterhe>	W Weed AMATA Common waterhe>		
Crop Code		ZEAMX		ZEAMX		
Crop Name		Corn		Corn		
Rating Date	6/12/2017	6/12/2017	6/20/2017	6/20/2017		
Rating Type	CONTRO	PHYGEN	CONTRO	PHYGEN		
Rating Unit	%	%	%	%		
Number of Subsamples	1	1	1	1		
Assessed By	T. Campbell	T. Campbell	T. Campbell	T. Campbell		
Days After First/Last Applic.	7 7	7 7	15 15	15 15		
Trt-Eval Interval	7 DA-A	7 DA-A	15 DA-A	15 DA-A		
Days After Emergence	21 DE-1	21 DE-1	29 DE-1	29 DE-1		
ARM Action Codes	P	P	P	P		
Number of Decimals	0	0	0	0		
Trt Treatment No. Name	Rate Unit	Appl Code	1	2	3	4
1 UNTREATED			0 c	0 a	0 c	0 a
2 DIFLEXX DUO ROUNDUP POWERMAX AATREX N-PAK	32 fl oz/a A 32 fl oz/a A 16 fl oz/a A 2.5 % v/v A		76 ab	0 a	99 a	0 a
3 DIFLEXX DUO AATREX COC N-PAK	32 fl oz/a A 16 fl oz/a A 1 % v/v A 2.5 % v/v A		75 ab	0 a	99 a	0 a
4 DIFLEXX DUO ROUNDUP POWERMAX AATREX N-PAK	24 fl oz/a A 32 fl oz/a A 16 fl oz/a A 2.5 % v/v A		81 ab	0 a	99 a	0 a
5 DIFLEXX DUO LIBERTY 280 SL AATREX N-PAK	24 fl oz/a A 32 fl oz/a A 16 fl oz/a A 2.5 % v/v A		86 a	0 a	100 a	0 a
6 CAPRENO ROUNDUP POWERMAX AATREX N-PAK	3 fl oz/a A 32 fl oz/a A 16 fl oz/a A 2.5 % v/v A		74 ab	0 a	100 a	0 a
7 HALEX GT AATREX NIS N-PAK	57.6 fl oz/a A 16 fl oz/a A 0.25 % v/v A 2.5 % v/v A		75 ab	0 a	99 a	0 a
8 ARMEZON OUTLOOK ROUNDUP POWERMAX AATREX N-PAK	0.5717 fl oz/a A 14.01 fl oz/a A 32 fl oz/a A 16 fl oz/a A 2.5 % v/v A		70 b	0 a	96 a	0 a

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.
 Could not calculate LSD (% mean diff) for columns 2,4 because error mean square = 0.

Pest Type	W Weed		W Weed	
Pest Code	AMATA		AMATA	
Pest Name	Common waterhe>		Common waterhe>	
Crop Code		ZEAMX		ZEAMX
Crop Name		Corn		Corn
Rating Date	6/12/2017	6/12/2017	6/20/2017	6/20/2017
Rating Type	CONTRO	PHYGEN	CONTRO	PHYGEN
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Assessed By	T. Campbell	T. Campbell	T. Campbell	T. Campbell
Days After First/Last Applic.	7 7	7 7	15 15	15 15
Trt-Eval Interval	7 DA-A	7 DA-A	15 DA-A	15 DA-A
Days After Emergence	21 DE-1	21 DE-1	29 DE-1	29 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate Appl			
No. Name	Rate Unit Code	1	2	3
9 ARMEZON	0.5717 fl oz/a A	70 b	0 a	96 a
STATUS	3 oz/a A			
ROUNDUP POWERMAX	32 fl oz/a A			
AATREX	16 fl oz/a A			
N-PAK	2.5 % v/v A			
10 DIFLEXX	10 fl oz/a A	70 b	0 a	79 b
ROUNDUP POWERMAX	32 fl oz/a A			
AATREX	16 fl oz/a A			
N-PAK	2.5 % v/v A			
11 LAUDIS	3 fl oz/a A	74 ab	0 a	98 a
ROUNDUP POWERMAX	32 fl oz/a A			
AATREX	16 fl oz/a A			
N-PAK	2.5 % v/v A			
12 LAUDIS	3 fl oz/a A	71 b	0 a	100 a
DIFLEXX	8 fl oz/a A			
AATREX	16 fl oz/a A			
COC	1 % v/v A			
N-PAK	2.5 % v/v A			
LSD P=.05	9.3	.	4.5	.
Standard Deviation	6.5	0.0	3.2	0.0
CV	9.45	0.0	3.57	0.0
Bartlett's X2	5.441	0.0	16.322	0.0
P(Bartlett's X2)	0.794	.	0.038*	.
Skewness	-2.4544*	.	-2.8667*	.
Kurtosis	5.7611*	.	6.9299*	.
Replicate F	1.803	0.000	0.992	0.000
Replicate Prob(F)	0.1658	1.0000	0.4084	1.0000
Treatment F	46.633	0.000	325.347	0.000
Treatment Prob(F)	0.0001	1.0000	0.0001	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.
Could not calculate LSD (% mean diff) for columns 2,4 because error mean square = 0.

Pest Type		W Weed	W Weed
Pest Code		AMATA	AMATA
Pest Name		Common waterhe>	Common waterhe>
Crop Code			
Crop Name			
Rating Date		7/3/2017	7/17/2017
Rating Type		CONTRO	CONTRO
Rating Unit		%	%
Number of Subsamples		1	1
Assessed By		T. Campbell	T. Campbell
Days After First/Last Applic.		28 28	42 42
Trt-Eval Interval		28 DA-A	28 DA-A
Days After Emergence		42 DE-1	56 DE-1
ARM Action Codes		P	P
Number of Decimals		0	0
Trt Treatment	Rate	Appl	
No. Name	Rate	Unit Code	
1 UNTREATED		5	6
		0 d	0 d
2 DIFLEXX DUO	32 fl oz/a A	95 ab	95 ab
ROUNDUP POWERMAX	32 fl oz/a A		
AATREX	16 fl oz/a A		
N-PAK	2.5 % v/v A		
3 DIFLEXX DUO	32 fl oz/a A	100 a	100 a
AATREX	16 fl oz/a A		
COC	1 % v/v A		
N-PAK	2.5 % v/v A		
4 DIFLEXX DUO	24 fl oz/a A	96 ab	96 ab
ROUNDUP POWERMAX	32 fl oz/a A		
AATREX	16 fl oz/a A		
N-PAK	2.5 % v/v A		
5 DIFLEXX DUO	24 fl oz/a A	91 ab	91 ab
LIBERTY 280 SL	32 fl oz/a A		
AATREX	16 fl oz/a A		
N-PAK	2.5 % v/v A		
6 CAPRENO	3 fl oz/a A	99 ab	99 ab
ROUNDUP POWERMAX	32 fl oz/a A		
AATREX	16 fl oz/a A		
N-PAK	2.5 % v/v A		
7 HALEX GT	57.6 fl oz/a A	96 ab	96 ab
AATREX	16 fl oz/a A		
NIS	0.25 % v/v A		
N-PAK	2.5 % v/v A		
8 ARMEZON	0.5717 fl oz/a A	98 ab	98 ab
OUTLOOK	14.01 fl oz/a A		
ROUNDUP POWERMAX	32 fl oz/a A		
AATREX	16 fl oz/a A		
N-PAK	2.5 % v/v A		

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.
Could not calculate LSD (% mean diff) for columns 2,4 because error mean square = 0.

Pest Type		W Weed	W Weed
Pest Code		AMATA	AMATA
Pest Name		Common waterhe>	Common waterhe>
Crop Code			
Crop Name			
Rating Date		7/3/2017	7/17/2017
Rating Type		CONTRO	CONTRO
Rating Unit		%	%
Number of Subsamples		1	1
Assessed By		T. Campbell	T. Campbell
Days After First/Last Applic.		28 28	42 42
Trt-Eval Interval		28 DA-A	28 DA-A
Days After Emergence		42 DE-1	56 DE-1
ARM Action Codes		P	P
Number of Decimals		0	0
Trt Treatment	Rate Appl		
No. Name	Rate Unit Code	5	6
9 ARMEZON	0.5717 fl oz/a A	88 b	88 b
STATUS	3 oz/a A		
ROUNDUP POWERMAX	32 fl oz/a A		
AATREX	16 fl oz/a A		
N-PAK	2.5 % v/v A		
10 DIFLEXX	10 fl oz/a A	78 c	78 c
ROUNDUP POWERMAX	32 fl oz/a A		
AATREX	16 fl oz/a A		
N-PAK	2.5 % v/v A		
11 LAUDIS	3 fl oz/a A	90 ab	90 ab
ROUNDUP POWERMAX	32 fl oz/a A		
AATREX	16 fl oz/a A		
N-PAK	2.5 % v/v A		
12 LAUDIS	3 fl oz/a A	100 a	100 a
DIFLEXX	8 fl oz/a A		
AATREX	16 fl oz/a A		
COC	1 % v/v A		
N-PAK	2.5 % v/v A		
LSD P=.05		7.3	7.3
Standard Deviation		5.1	5.1
CV		5.94	5.94
Bartlett's X2		7.686	7.686
P(Bartlett's X2)		0.465	0.465
Skewness		-2.7051*	-2.7051*
Kurtosis		6.3371*	6.3371*
Replicate F		1.588	1.588
Replicate Prob(F)		0.2109	0.2109
Treatment F		118.823	118.823
Treatment Prob(F)		0.0001	0.0001

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.
Could not calculate LSD (% mean diff) for columns 2,4 because error mean square = 0.

Purdue Weed Science

Diflexx Duo / MPOST / Efficacy / Tolerance / Competition		
Trial ID: 17S-MGS-Corn-12	Location: Meigs	Trial Year: 2017
Protocol ID: 17S-MGS-Corn-12	Investigator: Dr. Bill Johnson	
Project ID: HP17USAWMX	Study Director: Taylor Campbell	
Sponsor Contact: Alan Kurtz - Bayer		

<u>Pest Type</u> W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
<u>Pest Code</u> AMATA, Amaranthus tamariscinus, Common waterhemp = US
<u>Crop Code</u> ZEAMX, BCOR, Zea mays, Corn = US
<u>Rating Type</u> CONTRO = control / burndown or knockdown PHYGEN = phytotoxicity - general / injury
<u>Rating Unit</u> % = percent
<u>ARM Action Codes</u> P = Rating scale of 0 to 100 (e.g. % control or injury)