

MSU Weed Science Research Program

Evaluation of DiFlexx for crop safety and weed control in corn

Trial ID: C06-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

Date Planted: May/08/2014 **Row Spacing:** 30 IN
Variety: DKC 48-12 **No. of Reps:** 4
Population: 32,000 seeds/A **% OM:** 3.6
Soil Type: Loam **pH:** 6.2
Plot Size: 10 X 35 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel plow, spring soil finish
Fertilizer: 300 lb urea broadcast, 150 lb 19-19-19 starter

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ANGR	mainly foxtail species	SETARIA SP.
2.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	AMAPO	AMARANTH, POWELL	AMARANTHUS POWELLII S.WATS.
4.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
5.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
Crop	Code	Common Name	
1.	ZEAMX	CORN, FIELD	

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	May/09/2014	Jun/14/2014
Time Treated:	7:15 AM	10:15 am
% Cloud Cover:	100	0
Air Temp., Unit:	68 F	60 F
% Relative Humidity:	70.7	61
Wind Speed/Unit/Dir:	5 mph S	3 mph NW
Soil Temp., Unit:	58 F	58 F
Soil/Leaf Surface M:	5 -	4 5
Soil Moist (1=w 5=d):	5	4

Crop Stage at Each Application

	A	B
Crop Name:	ZEAMX	ZEAMX
Height (In.):	-	20"
Stage (L):	-	V6

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height (In.):	-	5"
Stage (L):	-	6
Weed 2 Name:	CHEAL	CHEAL
Height (In.):	-	2-3"
Stage (L):	-	8-10
Weed 3 Name:	AMAPO	AMAPO
Height (In.):	-	4"
Stage (L):	-	8-10
Weed 4 Name:	AMBEL	AMBEL
Height (In.):	-	1-2"
Stage (L):	-	4-8
Weed 5 Name:	ABUTH	ABUTH
Height (In.):	-	3-4"
Stage (L):	-	5-7

Weed Density (plants/sq. ft.)

	1	2	3	4	5
Date:	Jul/17/2014	Jul/17/2014	Jul/17/2014	Jul/17/2014	Jul/17/2014
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Density:	2	3	>1	3	>1

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom			
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI
A	Cub	3.8	AIXR	11003	21"	20"	100"	19	Water	30
B	Cub	3.8	AIXR	11003	36"	20"	100"	19	Water	30

Comments: Corn injury was mostly fused and malformed braceroots.

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								ZEAMX	ANGR	CHEAL	AMAPO
								injury	control	control	control
								percent	percent	percent	percent
								Jun/13/2014	Jun/13/2014	Jun/13/2014	Jun/13/2014
								35 DA-A	35 DA-A	35 DA-A	35 DA-A
								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Balance Flexx	2	L	6	fl oz/a	PRE	A	0	99	99	99
2	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	98	99	99
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
2	AMS		WG	17	lb/100 gal	POST	B				
2	Interlock		L	4	fl oz/a	POST	B				
3	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	98	99	98
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
3	Clarity	4	L	8	fl oz/a	POST	B				
3	Surfactant		L	0.25	% v/v	POST	B				
3	AMS		WG	17	lb/100 gal	POST	B				
3	Interlock		L	4	fl oz/a	POST	B				
4	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	98	99	99
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
4	Clarity	4	L	16	fl oz/a	POST	B				
4	Surfactant		L	0.25	% v/v	POST	B				
4	AMS		WG	17	lb/100 gal	POST	B				
4	Interlock		L	4	fl oz/a	POST	B				
5	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	98	99	98
5	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
5	DiFlexx	4.2	L	8	fl oz/a	POST	B				
5	Crop oil concentrate		L	1	% v/v	POST	B				
5	AMS		WG	17	lb/100 gal	POST	B				
5	Interlock		L	4	fl oz/a	POST	B				
6	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	97	99	98
6	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
6	DiFlexx	4.2	L	16	fl oz/a	POST	B				
6	Crop oil concentrate		L	1	% v/v	POST	B				
6	AMS		WG	17	lb/100 gal	POST	B				
6	Interlock		L	4	fl oz/a	POST	B				
7	Untreated							0	0	0	0
8	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	98	97	99
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
8	Laudis	3.5	L	3	fl oz/a	POST	B				
8	DiFlexx	4.2	L	16	fl oz/a	POST	B				
8	MSO		L	1	% v/v	POST	B				
8	AMS		WG	17	lb/100 gal	POST	B				
8	Interlock		L	4	fl oz/a	POST	B				
9	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	98	98	99
9	Liberty	2.34	L	29	fl oz/a	POST	B				
9	DiFlexx	4.2	L	16	fl oz/a	POST	B				
9	AMS		WG	17	lb/100 gal	POST	B				
9	Interlock		L	4	fl oz/a	POST	B				
10	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	99	99	99
10	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
10	Status	56	WG	5	oz/a	POST	B				
10	Crop oil concentrate		L	1	% v/v	POST	B				
10	AMS		WG	17	lb/100 gal	POST	B				
10	Interlock		L	4	fl oz/a	POST	B				

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Weed Code											
Crop Code											
Rating Data Type											
Rating Unit											
Rating Date											
Trt-Eval Interval											
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	ZEAMX injury percent	ANGR control percent	CHEAL control percent	AMAPO control percent
								Jun/13/2014	Jun/13/2014	Jun/13/2014	Jun/13/2014
								35 DA-A	35 DA-A	35 DA-A	35 DA-A
								0	0	0	0
LSD (P=.05)								0.0	1.1	2.0	1.2
CV								0.0	0.85	1.53	0.91

Means followed by same letter do not significantly differ (P=.05, LSD)

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								AMBEL	ABUTH	ZEAMX	ANGR
								control	control	injury	control
								percent	percent	percent	percent
								Jun/13/2014	Jun/13/2014	Jun/20/2014	Jun/20/2014
								35 DA-A	35 DA-A	6 DA-B	6 DA-B
								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Balance Flexx	2	L	6	fl oz/a	PRE	A	99	99	0	99
2	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	0	99
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
2	AMS		WG	17	lb/100 gal	POST	B				
2	Interlock		L	4	fl oz/a	POST	B				
3	Balance Flexx	2	L	4	fl oz/a	PRE	A	98	99	6	99
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
3	Clarity	4	L	8	fl oz/a	POST	B				
3	Surfactant		L	0.25	% v/v	POST	B				
3	AMS		WG	17	lb/100 gal	POST	B				
3	Interlock		L	4	fl oz/a	POST	B				
4	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	13	99
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
4	Clarity	4	L	16	fl oz/a	POST	B				
4	Surfactant		L	0.25	% v/v	POST	B				
4	AMS		WG	17	lb/100 gal	POST	B				
4	Interlock		L	4	fl oz/a	POST	B				
5	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	2	99
5	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
5	DiFlexx	4.2	L	8	fl oz/a	POST	B				
5	Crop oil concentrate		L	1	% v/v	POST	B				
5	AMS		WG	17	lb/100 gal	POST	B				
5	Interlock		L	4	fl oz/a	POST	B				
6	Balance Flexx	2	L	4	fl oz/a	PRE	A	98	99	2	99
6	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
6	DiFlexx	4.2	L	16	fl oz/a	POST	B				
6	Crop oil concentrate		L	1	% v/v	POST	B				
6	AMS		WG	17	lb/100 gal	POST	B				
6	Interlock		L	4	fl oz/a	POST	B				
7	Untreated							0	0	0	0
8	Balance Flexx	2	L	4	fl oz/a	PRE	A	98	99	2	99
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
8	Laudis	3.5	L	3	fl oz/a	POST	B				
8	DiFlexx	4.2	L	16	fl oz/a	POST	B				
8	MSO		L	1	% v/v	POST	B				
8	AMS		WG	17	lb/100 gal	POST	B				
8	Interlock		L	4	fl oz/a	POST	B				
9	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	2	99
9	Liberty	2.34	L	29	fl oz/a	POST	B				
9	DiFlexx	4.2	L	16	fl oz/a	POST	B				
9	AMS		WG	17	lb/100 gal	POST	B				
9	Interlock		L	4	fl oz/a	POST	B				
10	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	0	99
10	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
10	Status	56	WG	5	oz/a	POST	B				
10	Crop oil concentrate		L	1	% v/v	POST	B				
10	AMS		WG	17	lb/100 gal	POST	B				
10	Interlock		L	4	fl oz/a	POST	B				

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Weed Code	AMBEL	ABUTH	ZEAMX	ANGR
Crop Code				
Rating Data Type	control	control	injury	control
Rating Unit	percent	percent	percent	percent
Rating Date	Jun/13/2014	Jun/13/2014	Jun/20/2014	Jun/20/2014
Trt-Eval Interval	35 DA-A	35 DA-A	6 DA-B	6 DA-B
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code
LSD (P=.05)							
CV							

Means followed by same letter do not significantly differ (P=.05, LSD)

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								CHEAL	AMAPO	AMBEL	ABUTH
Weed Code								control	control	control	control
Crop Code								percent	percent	percent	percent
Rating Data Type								Jun/20/2014	Jun/20/2014	Jun/20/2014	Jun/20/2014
Rating Unit								6 DA-B	6 DA-B	6 DA-B	6 DA-B
Rating Date								0	0	0	0
Trt-Eval Interval											
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Balance Flexx	2	L	6	fl oz/a	PRE	A	99	99	99	99
2	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	99
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
2	AMS		WG	17	lb/100 gal	POST	B				
2	Interlock		L	4	fl oz/a	POST	B				
3	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	99
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
3	Clarity	4	L	8	fl oz/a	POST	B				
3	Surfactant		L	0.25	% v/v	POST	B				
3	AMS		WG	17	lb/100 gal	POST	B				
3	Interlock		L	4	fl oz/a	POST	B				
4	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	99
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
4	Clarity	4	L	16	fl oz/a	POST	B				
4	Surfactant		L	0.25	% v/v	POST	B				
4	AMS		WG	17	lb/100 gal	POST	B				
4	Interlock		L	4	fl oz/a	POST	B				
5	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	99
5	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
5	DiFlexx	4.2	L	8	fl oz/a	POST	B				
5	Crop oil concentrate		L	1	% v/v	POST	B				
5	AMS		WG	17	lb/100 gal	POST	B				
5	Interlock		L	4	fl oz/a	POST	B				
6	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	99
6	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
6	DiFlexx	4.2	L	16	fl oz/a	POST	B				
6	Crop oil concentrate		L	1	% v/v	POST	B				
6	AMS		WG	17	lb/100 gal	POST	B				
6	Interlock		L	4	fl oz/a	POST	B				
7	Untreated							0	0	0	0
8	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	99
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
8	Laudis	3.5	L	3	fl oz/a	POST	B				
8	DiFlexx	4.2	L	16	fl oz/a	POST	B				
8	MSO		L	1	% v/v	POST	B				
8	AMS		WG	17	lb/100 gal	POST	B				
8	Interlock		L	4	fl oz/a	POST	B				
9	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	99
9	Liberty	2.34	L	29	fl oz/a	POST	B				
9	DiFlexx	4.2	L	16	fl oz/a	POST	B				
9	AMS		WG	17	lb/100 gal	POST	B				
9	Interlock		L	4	fl oz/a	POST	B				
10	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	99
10	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
10	Status	56	WG	5	oz/a	POST	B				
10	Crop oil concentrate		L	1	% v/v	POST	B				
10	AMS		WG	17	lb/100 gal	POST	B				
10	Interlock		L	4	fl oz/a	POST	B				

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Weed Code	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	Jun/20/2014	Jun/20/2014	Jun/20/2014	Jun/20/2014
Trt-Eval Interval	6 DA-B	6 DA-B	6 DA-B	6 DA-B
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code
LSD (P=.05)							
CV							

Means followed by same letter do not significantly differ (P=.05, LSD)

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								ZEAMX	ANGR	CHEAL	AMAPO
								injury	control	control	control
								percent	percent	percent	percent
								Jun/27/2014	Jun/27/2014	Jun/27/2014	Jun/27/2014
								13 DA-B	13 DA-B	13 DA-B	13 DA-B
								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Balance Flexx	2	L	6	fl oz/a	PRE	A	0	97	99	99
2	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	99	99	99
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
2	AMS		WG	17	lb/100 gal	POST	B				
2	Interlock		L	4	fl oz/a	POST	B				
3	Balance Flexx	2	L	4	fl oz/a	PRE	A	2	99	99	99
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
3	Clarity	4	L	8	fl oz/a	POST	B				
3	Surfactant		L	0.25	% v/v	POST	B				
3	AMS		WG	17	lb/100 gal	POST	B				
3	Interlock		L	4	fl oz/a	POST	B				
4	Balance Flexx	2	L	4	fl oz/a	PRE	A	10	99	99	99
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
4	Clarity	4	L	16	fl oz/a	POST	B				
4	Surfactant		L	0.25	% v/v	POST	B				
4	AMS		WG	17	lb/100 gal	POST	B				
4	Interlock		L	4	fl oz/a	POST	B				
5	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	99	99	99
5	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
5	DiFlexx	4.2	L	8	fl oz/a	POST	B				
5	Crop oil concentrate		L	1	% v/v	POST	B				
5	AMS		WG	17	lb/100 gal	POST	B				
5	Interlock		L	4	fl oz/a	POST	B				
6	Balance Flexx	2	L	4	fl oz/a	PRE	A	1	99	99	99
6	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
6	DiFlexx	4.2	L	16	fl oz/a	POST	B				
6	Crop oil concentrate		L	1	% v/v	POST	B				
6	AMS		WG	17	lb/100 gal	POST	B				
6	Interlock		L	4	fl oz/a	POST	B				
7	Untreated							0	0	0	0
8	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	99	99	99
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
8	Laudis	3.5	L	3	fl oz/a	POST	B				
8	DiFlexx	4.2	L	16	fl oz/a	POST	B				
8	MSO		L	1	% v/v	POST	B				
8	AMS		WG	17	lb/100 gal	POST	B				
8	Interlock		L	4	fl oz/a	POST	B				
9	Balance Flexx	2	L	4	fl oz/a	PRE	A	3	99	99	99
9	Liberty	2.34	L	29	fl oz/a	POST	B				
9	DiFlexx	4.2	L	16	fl oz/a	POST	B				
9	AMS		WG	17	lb/100 gal	POST	B				
9	Interlock		L	4	fl oz/a	POST	B				
10	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	99	99	99
10	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
10	Status	56	WG	5	oz/a	POST	B				
10	Crop oil concentrate		L	1	% v/v	POST	B				
10	AMS		WG	17	lb/100 gal	POST	B				
10	Interlock		L	4	fl oz/a	POST	B				

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Weed Code								ANGR	CHEAL	AMAPO	
Crop Code								ZEAMX			
Rating Data Type								injury	control	control	
Rating Unit								percent	percent	percent	
Rating Date								Jun/27/2014	Jun/27/2014	Jun/27/2014	
Trt-Eval Interval								13 DA-B	13 DA-B	13 DA-B	
# Subsamples, Dec.								0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
LSD (P=.05)								1.0	0.9	0.0	0.0
CV								44.19	0.68	0.0	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code	AMBEL	ABUTH	ZEAMX	ANGR	CHEAL
Crop Code					
Rating Data Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	Jun/27/2014	Jun/27/2014	Jul/11/2014	Jul/11/2014	Jul/11/2014
Trt-Eval Interval	13 DA-B	13 DA-B	27 DA-B	27 DA-B	27 DA-B
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	AMBEL	ABUTH	ZEAMX	ANGR	CHEAL
1	Balance Flexx	2	L	6	fl oz/a	PRE	A	99	99	0	95	99
2	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	0	99	99
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
2	AMS		WG	17	lb/100 gal	POST	B					
2	Interlock		L	4	fl oz/a	POST	B					
3	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	8	99	99
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
3	Clarity	4	L	8	fl oz/a	POST	B					
3	Surfactant		L	0.25	% v/v	POST	B					
3	AMS		WG	17	lb/100 gal	POST	B					
3	Interlock		L	4	fl oz/a	POST	B					
4	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	14	99	99
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
4	Clarity	4	L	16	fl oz/a	POST	B					
4	Surfactant		L	0.25	% v/v	POST	B					
4	AMS		WG	17	lb/100 gal	POST	B					
4	Interlock		L	4	fl oz/a	POST	B					
5	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	3	99	99
5	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
5	DiFlexx	4.2	L	8	fl oz/a	POST	B					
5	Crop oil concentrate		L	1	% v/v	POST	B					
5	AMS		WG	17	lb/100 gal	POST	B					
5	Interlock		L	4	fl oz/a	POST	B					
6	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	6	99	99
6	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
6	DiFlexx	4.2	L	16	fl oz/a	POST	B					
6	Crop oil concentrate		L	1	% v/v	POST	B					
6	AMS		WG	17	lb/100 gal	POST	B					
6	Interlock		L	4	fl oz/a	POST	B					
7	Untreated							0	0	0	0	0
8	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	3	99	99
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
8	Laudis	3.5	L	3	fl oz/a	POST	B					
8	DiFlexx	4.2	L	16	fl oz/a	POST	B					
8	MSO		L	1	% v/v	POST	B					
8	AMS		WG	17	lb/100 gal	POST	B					
8	Interlock		L	4	fl oz/a	POST	B					
9	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	0	99	99
9	Liberty	2.34	L	29	fl oz/a	POST	B					
9	DiFlexx	4.2	L	16	fl oz/a	POST	B					
9	AMS		WG	17	lb/100 gal	POST	B					
9	Interlock		L	4	fl oz/a	POST	B					
10	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	0	99	99
10	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
10	Status	56	WG	5	oz/a	POST	B					
10	Crop oil concentrate		L	1	% v/v	POST	B					
10	AMS		WG	17	lb/100 gal	POST	B					
10	Interlock		L	4	fl oz/a	POST	B					

MSU Weed Science Research Program

Evaluation of DiFlexx for crop safety and weed control in corn

Trial ID: C06-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

Weed Code	AMBEL	ABUTH	ZEAMX	ANGR	CHEAL
Crop Code					
Rating Data Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	Jun/27/2014	Jun/27/2014	Jul/11/2014	Jul/11/2014	Jul/11/2014
Trt-Eval Interval	13 DA-B	13 DA-B	27 DA-B	27 DA-B	27 DA-B
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
	LSD (P=.05)							0.0	0.0	2.4	1.8	0.0
	CV							0.0	0.0	49.61	1.38	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Evaluation of DiFlexx for crop safety and weed control in corn

Trial ID: C06-14

Study Dir.: Sprague and Powell

Conducted: Campus T-17

Investigator: Christy Sprague

Weed Code	AMAPO	AMBEL	ABUTH	ZEAMX	ZEAMX							
Crop Code	control	control	control	moisture	yield							
Rating Data Type	percent	percent	percent	percent	bu/acre							
Rating Unit	Jul/11/2014	Jul/11/2014	Jul/11/2014	Nov/09/2014	Nov/09/2014							
Rating Date	27 DA-B	27 DA-B	27 DA-B	148 DA-B	at 15% M							
Trt-Eval Interval	0	0	0	1	0							
# Subsamples, Dec.												
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Balance Flexx	2	L	6	fl oz/a	PRE	A	99	99	99	15.9	242
2	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	16.1	239
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
2	AMS		WG	17	lb/100 gal	POST	B					
2	Interlock		L	4	fl oz/a	POST	B					
3	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	16.4	213
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
3	Clarity	4	L	8	fl oz/a	POST	B					
3	Surfactant		L	0.25	% v/v	POST	B					
3	AMS		WG	17	lb/100 gal	POST	B					
3	Interlock		L	4	fl oz/a	POST	B					
4	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	16.3	214
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
4	Clarity	4	L	16	fl oz/a	POST	B					
4	Surfactant		L	0.25	% v/v	POST	B					
4	AMS		WG	17	lb/100 gal	POST	B					
4	Interlock		L	4	fl oz/a	POST	B					
5	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	15.7	224
5	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
5	DiFlexx	4.2	L	8	fl oz/a	POST	B					
5	Crop oil concentrate		L	1	% v/v	POST	B					
5	AMS		WG	17	lb/100 gal	POST	B					
5	Interlock		L	4	fl oz/a	POST	B					
6	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	16.2	220
6	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
6	DiFlexx	4.2	L	16	fl oz/a	POST	B					
6	Crop oil concentrate		L	1	% v/v	POST	B					
6	AMS		WG	17	lb/100 gal	POST	B					
6	Interlock		L	4	fl oz/a	POST	B					
7	Untreated							0	0	0	16.8	188
8	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	15.3	237
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
8	Laudis	3.5	L	3	fl oz/a	POST	B					
8	DiFlexx	4.2	L	16	fl oz/a	POST	B					
8	MSO		L	1	% v/v	POST	B					
8	AMS		WG	17	lb/100 gal	POST	B					
8	Interlock		L	4	fl oz/a	POST	B					
9	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	15.4	220
9	Liberty	2.34	L	29	fl oz/a	POST	B					
9	DiFlexx	4.2	L	16	fl oz/a	POST	B					
9	AMS		WG	17	lb/100 gal	POST	B					
9	Interlock		L	4	fl oz/a	POST	B					
10	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	16.3	249
10	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
10	Status	56	WG	5	oz/a	POST	B					
10	Crop oil concentrate		L	1	% v/v	POST	B					
10	AMS		WG	17	lb/100 gal	POST	B					
10	Interlock		L	4	fl oz/a	POST	B					

MSU Weed Science Research Program

Evaluation of DiFlexx for crop safety and weed control in corn

Trial ID: C06-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-17 Investigator: Christy Sprague

Weed Code	AMAPO	AMBEL	ABUTH	ZEAMX	ZEAMX
Crop Code				moisture	yield
Rating Data Type	control	control	control	percent	bu/acre
Rating Unit	percent	percent	percent		
Rating Date	Jul/11/2014	Jul/11/2014	Jul/11/2014	Nov/09/2014	Nov/09/2014
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	148 DA-B	at 15% M
# Subsamples, Dec.	0	0	0	1	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code
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LSD (P=.05)								0.0	0.0	0.0	0.76	19.5
CV								0.0	0.0	0.0	3.26	5.98

Means followed by same letter do not significantly differ (P=.05, LSD)