

Corn tolerance to early postemergence (EPOS) tank-mixtures with DiFlexx Duo

Trial ID: C04-18_Updated Study Dir.: Burns, Stiles, Powell, Craft
 Conducted: Campus T-17 Investigator: Erin Burns

Planting Date: May-29-2018 **Row Spacing:** 30 IN
Variety: P9840AM **No. of Reps:** 4
Population: 34600 seeds/A **% OM:** 3.4
Soil Type: LOAM **pH:** 6.2
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plowed; spring soil finished twice
Fertilizer: 300lbs/A urea incorporated
 150lbs/A 19-19-19 starter

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ANGR	mainly foxtail species	Annual grass
2	CHEAL	common lambsquarters	Chenopodium album
3	AMAPO	Powell amaranth	Amaranthus powellii
4	AMBEL	Common ragweed	Ambrosia artemisiifolia
5	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	ZEAMX	Corn	

Application Description

Application Timing: A
Date Treated: EPOS
 Jun-15-2018
Time Treated: 8:15 AM
% Cloud Cover: 10
Air Temp., Unit: 72.4 F
% Relative Humidity: 48.9
Wind Speed/Unit/Dir: 2.5 MPH NW
Soil Temp, Unit: 67.8 F
Leaf Moist/Dew Presence (Y/N): 4
Soil Moist: 4

Crop Stage at Each Application

Crop 1 Name: A
 ZEAMX
Height:
Stage: V1-V2

Weed Stage at Each Application

Weed 1 Name: A
 ANGR
Height: 1 IN
Stage: 4 L
Weed 2 Name: CHEAL
Height: 0.5 IN
Stage: 4 L
Weed 3 Name: AMAPO
Height:
Stage:
Weed 4 Name: AMBEL
Height: 0.5 IN
Stage: 4 L
Weed 5 Name: ABUTH
Height: 1 IN
Stage: 4 L

Weed Density

Date:	1	2	3	4	5
	Jun-15-2018	Jun-15-2018	Jun-15-2018	Jun-15-2018	Jun-15-2018
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Density:	1 FT2	3 FT2	1 FT2	1 FT2	1 FT2

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 MPH	AIXR	11003	24 "	20 "	100 "	19 GPA	WATER	30 PSI

Comments:

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Trt-Eval Interval							
						ZEAMX Jun-22-2018 injury percent 7 DA-A	ANGR Jun-22-2018 control percent 7 DA-A	CHEAL Jun-22-2018 control percent 7 DA-A	AMAPO Jun-22-2018 control percent 7 DA-A	AMBEL Jun-22-2018 control percent 7 DA-A	ABUTH Jun-22-2018 control percent 7 DA-A	ZEAMX Jul-10-2018 injury percent 25 DA-A
1 DiFlexx Duo		2 pt/a	A			0	100	100	100	100	100	0
1 Roundup PowerMax		32 fl oz/a	A									
1 Atrazine		0.55 lb/a	A									
1 AMS		8.5 lb/100 gal	A									
2 DiFlexx Duo		1.5 pt/a	A			0	100	100	100	100	99	0
2 Roundup PowerMax		32 fl oz/a	A									
2 Atrazine		0.55 lb/a	A									
2 AMS		8.5 lb/100 gal	A									
3 DiFlexx Duo		1.5 pt/a	A			0	100	100	100	100	100	0
3 Liberty		32 fl oz/a	A									
3 Atrazine		0.55 lb/a	A									
3 AMS		8.5 lb/100 gal	A									
4 Capreno		3 fl oz/a	A			0	100	100	100	100	99	0
4 Roundup PowerMax		32 fl oz/a	A									
4 Atrazine		0.55 lb/a	A									
4 AMS		8.5 lb/100 gal	A									
5 Halex GT		3.6 pt/a	A			1	100	100	100	100	100	0
5 Atrazine		0.55 lb/a	A									
5 Surfactant		0.25 % v/v	A									
5 AMS		8.5 lb/100 gal	A									
6 Untreated						0	0	0	0	0	0	0
7 Armezon Pro		1 pt/a	A			0	100	100	100	100	100	0
7 Roundup PowerMax		32 fl oz/a	A									
7 Atrazine		0.55 lb/a	A									
7 AMS		8.5 lb/100 gal	A									
8 Armezon		0.57 fl oz/a	A			0	100	100	100	100	100	0
8 Status		3 oz/a	A									
8 Roundup PowerMax		32 fl oz/a	A									
8 Atrazine		0.55 lb/a	A									
8 AMS		8.5 lb/100 gal	A									
9 DiFlexx Duo		1.5 pt/a	A			0	100	100	100	100	100	0
9 Roundup PowerMax		32 fl oz/a	A									
9 Degree Xtra		2 qt/a	A									
9 AMS		8.5 lb/100 gal	A									
10 DiFlexx Duo		1.5 pt/a	A			0	100	100	100	100	100	0
10 Liberty		32 fl oz/a	A									
10 Degree Xtra		2 qt/a	A									
10 AMS		8.5 lb/100 gal	A									
LSD P=.05						0.7	0.7	.	.	.	0.9	.
Standard Deviation						0.5	0.5	0.0	0.0	0.0	0.6	0.0
CV						632.46	0.51	0.0	0.0	0.0	0.7	0.0

Could not calculate LSD (% mean diff) for columns 3,4,5,7,10,11,13,15,16,17 because error mean square = 0.

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Pest Code			ANGR	CHEAL	AMAPO	AMBEL	ABUTH		ANGR	CHEAL	
Crop Code								ZEAMX			
Rating Date			Jul-10-2018	Jul-10-2018	Jul-10-2018	Jul-10-2018	Jul-10-2018	Jul-24-2018	Jul-24-2018	Jul-24-2018	
Rating Type			control	control	control	control	control	injury	control	control	
Rating Unit			percent	percent	percent	percent	percent	percent	percent	percent	
Trt-Eval Interval			25 DA-A	25 DA-A	25 DA-A	25 DA-A	25 DA-A	39 DA-A	39 DA-A	39 DA-A	
Trt No.	Treatment Name	Rate Unit	Appl Code								
1	DiFlexx Duo	2 pt/a	A	100	100	100	100	100	0	100	100
1	Roundup PowerMax	32 fl oz/a	A								
1	Atrazine	0.55 lb/a	A								
1	AMS	8.5 lb/100 gal	A								
2	DiFlexx Duo	1.5 pt/a	A	99	100	100	100	100	0	99	100
2	Roundup PowerMax	32 fl oz/a	A								
2	Atrazine	0.55 lb/a	A								
2	AMS	8.5 lb/100 gal	A								
3	DiFlexx Duo	1.5 pt/a	A	100	100	100	100	100	0	100	100
3	Liberty	32 fl oz/a	A								
3	Atrazine	0.55 lb/a	A								
3	AMS	8.5 lb/100 gal	A								
4	Capreno	3 fl oz/a	A	100	100	100	100	99	0	100	100
4	Roundup PowerMax	32 fl oz/a	A								
4	Atrazine	0.55 lb/a	A								
4	AMS	8.5 lb/100 gal	A								
5	Halex GT	3.6 pt/a	A	100	100	100	100	100	0	100	100
5	Atrazine	0.55 lb/a	A								
5	Surfactant	0.25 % v/v	A								
5	AMS	8.5 lb/100 gal	A								
6	Untreated			0	0	0	0	0	0	0	0
7	Armezon Pro	1 pt/a	A	100	100	100	100	100	0	100	100
7	Roundup PowerMax	32 fl oz/a	A								
7	Atrazine	0.55 lb/a	A								
7	AMS	8.5 lb/100 gal	A								
8	Armezon	0.57 fl oz/a	A	100	100	100	100	100	0	100	100
8	Status	3 oz/a	A								
8	Roundup PowerMax	32 fl oz/a	A								
8	Atrazine	0.55 lb/a	A								
8	AMS	8.5 lb/100 gal	A								
9	DiFlexx Duo	1.5 pt/a	A	100	100	100	100	100	0	100	100
9	Roundup PowerMax	32 fl oz/a	A								
9	Degree Xtra	2 qt/a	A								
9	AMS	8.5 lb/100 gal	A								
10	DiFlexx Duo	1.5 pt/a	A	100	100	100	100	100	0	100	100
10	Liberty	32 fl oz/a	A								
10	Degree Xtra	2 qt/a	A								
10	AMS	8.5 lb/100 gal	A								
LSD P=.05				1.1	0.5	.	.	1.0	.	1.3	.
Standard Deviation				0.8	0.3	0.0	0.0	0.7	0.0	0.9	0.0
CV				0.88	0.35	0.0	0.0	0.76	0.0	0.96	0.0

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	AMAPO	AMBEL	ABUTH
Pest Code			
Crop Code			
Rating Date	Jul-24-2018	Jul-24-2018	Jul-24-2018
Rating Type	control	control	control
Rating Unit	percent	percent	percent
Trt-Eval Interval	39 DA-A	39 DA-A	39 DA-A

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code			
1	DiFlexx Duo	2 pt/a		A	100	100	100
1	Roundup PowerMax	32 fl oz/a		A			
1	Atrazine	0.55 lb/a		A			
1	AMS	8.5 lb/100 gal		A			
2	DiFlexx Duo	1.5 pt/a		A	100	100	100
2	Roundup PowerMax	32 fl oz/a		A			
2	Atrazine	0.55 lb/a		A			
2	AMS	8.5 lb/100 gal		A			
3	DiFlexx Duo	1.5 pt/a		A	100	100	100
3	Liberty	32 fl oz/a		A			
3	Atrazine	0.55 lb/a		A			
3	AMS	8.5 lb/100 gal		A			
4	Capreno	3 fl oz/a		A	100	100	100
4	Roundup PowerMax	32 fl oz/a		A			
4	Atrazine	0.55 lb/a		A			
4	AMS	8.5 lb/100 gal		A			
5	Halex GT	3.6 pt/a		A	100	100	100
5	Atrazine	0.55 lb/a		A			
5	Surfactant	0.25 % v/v		A			
5	AMS	8.5 lb/100 gal		A			
6	Untreated				0	0	0
7	Armezon Pro	1 pt/a		A	100	100	100
7	Roundup PowerMax	32 fl oz/a		A			
7	Atrazine	0.55 lb/a		A			
7	AMS	8.5 lb/100 gal		A			
8	Armezon	0.57 fl oz/a		A	100	100	100
8	Status	3 oz/a		A			
8	Roundup PowerMax	32 fl oz/a		A			
8	Atrazine	0.55 lb/a		A			
8	AMS	8.5 lb/100 gal		A			
9	DiFlexx Duo	1.5 pt/a		A	100	100	100
9	Roundup PowerMax	32 fl oz/a		A			
9	Degree Xtra	2 qt/a		A			
9	AMS	8.5 lb/100 gal		A			
10	DiFlexx Duo	1.5 pt/a		A	100	100	100
10	Liberty	32 fl oz/a		A			
10	Degree Xtra	2 qt/a		A			
10	AMS	8.5 lb/100 gal		A			
LSD	P=.05						1.0
Standard Deviation		0.0			0.0		0.7
CV		0.0			0.0		0.74

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