

Corn tolerance of early postemergence (EPOS) tank-mixtures with DiFlexx and Status

Trial ID: C03-16 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus T-17 Investigator: Christy Sprague

Planting Date: May-18-2016 **Row Spacing:** 30 IN
Variety: P9807 **No. of Reps:** 4
Population: 32000 seeds/A **% OM:** 3.6
Soil Type: L loam **pH:** 6.0
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plowed; spring soil finished twice
Fertilizer: 300 lb urea incorporated 200 lb 19-19-19 starter

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	CHEAL	lambquarters, common	Chenopodium album
2	AMAPO	amaranth, Powell	Amaranthus powellii
3	AMBEL	ragweed, common	Ambrosia artemisiifolia
4	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	ZEAMX	Corn	

Application Description

A
Application Timing: EPOS
Date Treated: Jun-3-2016
Time Treated: 9:15 AM
% Cloud Cover: 0
Air Temp., Unit: 67 F
% Relative Humidity: 64
Wind Speed/Unit/Dir: 2.4 MPH NW
Soil Temp, Unit: 65 F
Leaf Moist/Dew Presence (Y/N): 5
Soil Moist:

Crop Stage at Each Application

A
Crop 1 Name: ZEAMX
Height: 6 "
Stage: V2

Weed Stage at Each Application

A
Weed 1 Name: CHEAL
Height: .5-1.5 " (1)
Stage: 4-6L
Weed 2 Name: AMAPO
Height: 1-1.5 " (1)
Stage: 5L
Weed 3 Name: AMBEL
Height: 1 "
Stage: 1L
Weed 4 Name: ABUTH
Height: 1 "
Stage: 1L

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	26 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

Comments: Dual II Magnum at 1.33 pt/A was applied PRE across the whole trial

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	ZEAMX					
Rating Date	Jun-10-2016	Jun-10-2016	Jun-10-2016	Jun-10-2016	Jun-10-2016	Jun-10-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Appl Code						
1	Roundup PowerMax	22 fl oz/a	A	3	100	100	100	99	100
1	AMS	17 lb/100 gal	A						
2	Corvus	4.5 fl oz/a	A	3	99	100	100	100	100
2	Atrazine	0.56 lb/a	A						
2	Surfactant	0.25 % v/v	A						
3	Acuron	2 qt/a	A	2	100	100	100	100	100
3	Surfactant	0.25 % v/v	A						
4	Resicore	2.5 qt/a	A	13	100	100	100	100	100
4	Atrazine	0.56 lb/a	A						
4	Surfactant	0.25 % v/v	A						
5	Capreno	3 fl oz/a	A	2	99	98	100	97	99
5	Roundup PowerMax	12 fl oz/a	A						
5	Atrazine	0.56 lb/a	A						
6	Halex GT	3.6 pt/a	A	0	100	100	100	100	100
6	Atrazine	0.56 lb/a	A						
6	Surfactant	0.25 % v/v	A						
7	DiFlexx	8 fl oz/a	A	1	97	86	100	86	78
7	Crop oil concentrate	1 % v/v	A						
8	Status	3 oz/a	A	4	99	88	100	85	83
8	Crop oil concentrate	1 % v/v	A						
9	Corvus	4.5 fl oz/a	A	3	98	100	100	99	97
9	DiFlexx	8 fl oz/a	A						
9	Atrazine	0.56 lb/a	A						
9	Surfactant	0.25 % v/v	A						
10	Acuron	2 qt/a	A	1	98	100	100	100	99
10	DiFlexx	8 fl oz/a	A						
10	Surfactant	0.25 % v/v	A						
11	Resicore	2.5 qt/a	A	10	98	100	100	100	100
11	DiFlexx	8 fl oz/a	A						
11	Atrazine	0.56 lb/a	A						
11	Surfactant	0.25 % v/v	A						
12	Capreno	3 fl oz/a	A	0	99	100	100	100	100
12	Roundup PowerMax	12 fl oz/a	A						
12	DiFlexx	8 fl oz/a	A						
12	Atrazine	0.56 lb/a	A						

Could not calculate LSD (% mean diff) for columns 4,13,19 because error mean square = 0.

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	ZEAMX					
Rating Date	Jun-10-2016	Jun-10-2016	Jun-10-2016	Jun-10-2016	Jun-10-2016	Jun-10-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code					
13	Halex GT	3.6 pt/a	A	2	100	100	100	100	100
13	DiFlexx	8 fl oz/a	A						
13	Atrazine	0.56 lb/a	A						
13	Surfactant	0.25 % v/v	A						
14	Corvus	4.5 fl oz/a	A	3	99	100	100	99	100
14	Status	3 oz/a	A						
14	Atrazine	0.56 lb/a	A						
14	Surfactant	0.25 % v/v	A						
15	Acuron	2 qt/a	A	0	99	100	100	100	99
15	Status	3 oz/a	A						
15	Surfactant	0.25 % v/v	A						
16	Resicore	2.5 qt/a	A	6	100	100	100	100	100
16	Status	3 oz/a	A						
16	Atrazine	0.56 lb/a	A						
16	Surfactant	0.25 % v/v	A						
17	Capreno	3 fl oz/a	A	0	100	100	100	98	98
17	Roundup PowerMax	12 fl oz/a	A						
17	Status	3 oz/a	A						
17	Atrazine	0.56 lb/a	A						
18	Halex GT	3.6 pt/a	A	0	100	100	100	100	99
18	Status	3 oz/a	A						
18	Atrazine	0.56 lb/a	A						
18	Surfactant	0.25 % v/v	A						
LSD P=.05				2.2	2.9	3.4	.	4.1	5.5
Standard Deviation				1.6	2.0	2.4	0.0	2.9	3.9
CV				55.84	2.06	2.44	0.0	2.95	3.98

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	ZEAMX					
Rating Date	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code						
1	Roundup PowerMax	22 fl oz/a	A		1	100	77	100	95	95
1	AMS	17 lb/100 gal	A							
2	Corvus	4.5 fl oz/a	A		0	92	94	100	100	100
2	Atrazine	0.56 lb/a	A							
2	Surfactant	0.25 % v/v	A							
3	Acuron	2 qt/a	A		0	98	100	100	100	100
3	Surfactant	0.25 % v/v	A							
4	Resicore	2.5 qt/a	A		1	96	96	100	100	100
4	Atrazine	0.56 lb/a	A							
4	Surfactant	0.25 % v/v	A							
5	Capreno	3 fl oz/a	A		0	99	94	100	93	100
5	Roundup PowerMax	12 fl oz/a	A							
5	Atrazine	0.56 lb/a	A							
6	Halex GT	3.6 pt/a	A		0	100	97	100	100	100
6	Atrazine	0.56 lb/a	A							
6	Surfactant	0.25 % v/v	A							
7	DiFlexx	8 fl oz/a	A		0	85	96	99	85	95
7	Crop oil concentrate	1 % v/v	A							
8	Status	3 oz/a	A		0	90	82	100	85	98
8	Crop oil concentrate	1 % v/v	A							
9	Corvus	4.5 fl oz/a	A		0	86	100	100	100	100
9	DiFlexx	8 fl oz/a	A							
9	Atrazine	0.56 lb/a	A							
9	Surfactant	0.25 % v/v	A							
10	Acuron	2 qt/a	A		0	88	100	100	100	100
10	DiFlexx	8 fl oz/a	A							
10	Surfactant	0.25 % v/v	A							
11	Resicore	2.5 qt/a	A		3	85	100	100	100	95
11	DiFlexx	8 fl oz/a	A							
11	Atrazine	0.56 lb/a	A							
11	Surfactant	0.25 % v/v	A							
12	Capreno	3 fl oz/a	A		0	96	100	100	98	98
12	Roundup PowerMax	12 fl oz/a	A							
12	DiFlexx	8 fl oz/a	A							
12	Atrazine	0.56 lb/a	A							

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Crop Code	ZEAMX					
Rating Date	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Appl Code						
13	Halex GT	3.6 pt/a	A	0	99	100	100	100	100
13	DiFlexx	8 fl oz/a	A						
13	Atrazine	0.56 lb/a	A						
13	Surfactant	0.25 % v/v	A						
14	Corvus	4.5 fl oz/a	A	0	94	100	100	100	100
14	Status	3 oz/a	A						
14	Atrazine	0.56 lb/a	A						
14	Surfactant	0.25 % v/v	A						
15	Acuron	2 qt/a	A	0	93	100	100	100	100
15	Status	3 oz/a	A						
15	Surfactant	0.25 % v/v	A						
16	Resicore	2.5 qt/a	A	2	99	100	100	100	100
16	Status	3 oz/a	A						
16	Atrazine	0.56 lb/a	A						
16	Surfactant	0.25 % v/v	A						
17	Capreno	3 fl oz/a	A	0	100	99	100	99	100
17	Roundup PowerMax	12 fl oz/a	A						
17	Status	3 oz/a	A						
17	Atrazine	0.56 lb/a	A						
18	Halex GT	3.6 pt/a	A	0	100	100	100	99	100
18	Status	3 oz/a	A						
18	Atrazine	0.56 lb/a	A						
18	Surfactant	0.25 % v/v	A						
LSD P=.05				1.5	15.1	6.9	0.8	6.3	5.5
Standard Deviation				1.1	10.6	4.9	0.6	4.4	3.9
CV				306.8	11.26	5.06	0.59	4.55	3.95

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Crop Code	ZEAMX					
Rating Date	Jun-30-2016	Jun-30-2016	Jun-30-2016	Jun-30-2016	Jun-30-2016	Jun-30-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code						
1	Roundup PowerMax	22 fl oz/a	A		0	100	64	98	96	96
1	AMS	17 lb/100 gal	A							
2	Corvus	4.5 fl oz/a	A		0	93	93	100	100	98
2	Atrazine	0.56 lb/a	A							
2	Surfactant	0.25 % v/v	A							
3	Acuron	2 qt/a	A		0	100	100	98	100	96
3	Surfactant	0.25 % v/v	A							
4	Resicore	2.5 qt/a	A		0	96	95	100	100	100
4	Atrazine	0.56 lb/a	A							
4	Surfactant	0.25 % v/v	A							
5	Capreno	3 fl oz/a	A		0	100	91	99	91	96
5	Roundup PowerMax	12 fl oz/a	A							
5	Atrazine	0.56 lb/a	A							
6	Halex GT	3.6 pt/a	A		0	100	94	100	99	93
6	Atrazine	0.56 lb/a	A							
6	Surfactant	0.25 % v/v	A							
7	DiFlexx	8 fl oz/a	A		0	86	92	96	95	80
7	Crop oil concentrate	1 % v/v	A							
8	Status	3 oz/a	A		0	91	68	98	94	80
8	Crop oil concentrate	1 % v/v	A							
9	Corvus	4.5 fl oz/a	A		0	90	98	100	99	98
9	DiFlexx	8 fl oz/a	A							
9	Atrazine	0.56 lb/a	A							
9	Surfactant	0.25 % v/v	A							
10	Acuron	2 qt/a	A		0	91	100	100	100	100
10	DiFlexx	8 fl oz/a	A							
10	Surfactant	0.25 % v/v	A							
11	Resicore	2.5 qt/a	A		0	90	100	100	100	96
11	DiFlexx	8 fl oz/a	A							
11	Atrazine	0.56 lb/a	A							
11	Surfactant	0.25 % v/v	A							
12	Capreno	3 fl oz/a	A		0	95	99	95	99	99
12	Roundup PowerMax	12 fl oz/a	A							
12	DiFlexx	8 fl oz/a	A							
12	Atrazine	0.56 lb/a	A							

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Crop Code	ZEAMX					
Rating Date	Jun-30-2016	Jun-30-2016	Jun-30-2016	Jun-30-2016	Jun-30-2016	Jun-30-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Appl Code						
13	Halex GT	3.6 pt/a	A	0	95	96	100	99	100
13	DiFlexx	8 fl oz/a	A						
13	Atrazine	0.56 lb/a	A						
13	Surfactant	0.25 % v/v	A						
14	Corvus	4.5 fl oz/a	A	0	95	98	100	100	99
14	Status	3 oz/a	A						
14	Atrazine	0.56 lb/a	A						
14	Surfactant	0.25 % v/v	A						
15	Acuron	2 qt/a	A	0	92	100	100	100	100
15	Status	3 oz/a	A						
15	Surfactant	0.25 % v/v	A						
16	Resicore	2.5 qt/a	A	0	100	100	100	100	100
16	Status	3 oz/a	A						
16	Atrazine	0.56 lb/a	A						
16	Surfactant	0.25 % v/v	A						
17	Capreno	3 fl oz/a	A	0	100	93	100	100	97
17	Roundup PowerMax	12 fl oz/a	A						
17	Status	3 oz/a	A						
17	Atrazine	0.56 lb/a	A						
18	Halex GT	3.6 pt/a	A	0	100	99	100	100	100
18	Status	3 oz/a	A						
18	Atrazine	0.56 lb/a	A						
18	Surfactant	0.25 % v/v	A						
LSD P=.05				.	14.3	8.6	5.3	6.4	9.0
Standard Deviation				0.0	10.1	6.1	3.7	4.5	6.3
CV				0.0	10.61	6.5	3.77	4.59	6.58

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH	
Crop Code	ZEAMX						ZEAMX
Rating Date	Jul-14-2016	Jul-14-2016	Jul-14-2016	Jul-14-2016	Jul-14-2016	Jul-14-2016	Oct-19-2016
Rating Type	injury	control	control	control	control	control	test weight
Rating Unit	percent	percent	percent	percent	percent	percent	lbs/bu
Trt-Eval Interval	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	138 DA-A
Number of Decimals	0	0	0	0	0	0	1

Trt No.	Treatment Name	Rate Unit	Appl Code							
13	Halex GT	3.6 pt/a	A	0	96	95	100	100	100	52.9
13	DiFlexx	8 fl oz/a	A							
13	Atrazine	0.56 lb/a	A							
13	Surfactant	0.25 % v/v	A							
14	Corvus	4.5 fl oz/a	A	0	95	94	100	100	98	53.5
14	Status	3 oz/a	A							
14	Atrazine	0.56 lb/a	A							
14	Surfactant	0.25 % v/v	A							
15	Acuron	2 qt/a	A	0	90	98	100	100	99	53.6
15	Status	3 oz/a	A							
15	Surfactant	0.25 % v/v	A							
16	Resicore	2.5 qt/a	A	0	98	99	100	100	100	53.3
16	Status	3 oz/a	A							
16	Atrazine	0.56 lb/a	A							
16	Surfactant	0.25 % v/v	A							
17	Capreno	3 fl oz/a	A	0	100	89	99	100	98	53.5
17	Roundup PowerMax	12 fl oz/a	A							
17	Status	3 oz/a	A							
17	Atrazine	0.56 lb/a	A							
18	Halex GT	3.6 pt/a	A	0	99	100	100	100	100	53.9
18	Status	3 oz/a	A							
18	Atrazine	0.56 lb/a	A							
18	Surfactant	0.25 % v/v	A							
LSD P=.05				.	12.2	10.9	3.2	5.7	5.4	3.12
Standard Deviation				0.0	8.6	7.7	2.2	4.0	3.8	2.20
CV				0.0	9.1	8.32	2.24	4.13	3.96	4.09

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Pest Code		
Crop Code	ZEAMX	ZEAMX
Rating Date	Oct-19-2016	Oct-19-2016
Rating Type	moisture	yield
Rating Unit	percent	bu/acre
Trt-Eval Interval	138 DA-A	at 15% M
Number of Decimals	1	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code		
1	Roundup PowerMax	22 fl oz/a	A		19.2	236
1	AMS	17 lb/100 gal	A			
2	Corvus	4.5 fl oz/a	A		18.9	241
2	Atrazine	0.56 lb/a	A			
2	Surfactant	0.25 % v/v	A			
3	Acuron	2 qt/a	A		19.0	235
3	Surfactant	0.25 % v/v	A			
4	Resicore	2.5 qt/a	A		19.3	230
4	Atrazine	0.56 lb/a	A			
4	Surfactant	0.25 % v/v	A			
5	Capreno	3 fl oz/a	A		19.2	245
5	Roundup PowerMax	12 fl oz/a	A			
5	Atrazine	0.56 lb/a	A			
6	Halex GT	3.6 pt/a	A		19.3	238
6	Atrazine	0.56 lb/a	A			
6	Surfactant	0.25 % v/v	A			
7	DiFlexx	8 fl oz/a	A		19.1	236
7	Crop oil concentrate	1 % v/v	A			
8	Status	3 oz/a	A		19.0	237
8	Crop oil concentrate	1 % v/v	A			
9	Corvus	4.5 fl oz/a	A		19.5	241
9	DiFlexx	8 fl oz/a	A			
9	Atrazine	0.56 lb/a	A			
9	Surfactant	0.25 % v/v	A			
10	Acuron	2 qt/a	A		19.3	232
10	DiFlexx	8 fl oz/a	A			
10	Surfactant	0.25 % v/v	A			
11	Resicore	2.5 qt/a	A		19.5	236
11	DiFlexx	8 fl oz/a	A			
11	Atrazine	0.56 lb/a	A			
11	Surfactant	0.25 % v/v	A			
12	Capreno	3 fl oz/a	A		19.1	233
12	Roundup PowerMax	12 fl oz/a	A			
12	DiFlexx	8 fl oz/a	A			
12	Atrazine	0.56 lb/a	A			

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Pest Code			
Crop Code		ZEAMX	ZEAMX
Rating Date		Oct-19-2016	Oct-19-2016
Rating Type		moisture	yield
Rating Unit		percent	bu/acre
Trt-Eval Interval		138 DA-A	at 15% M
Number of Decimals		1	0

Trt No.	Treatment Name	Rate Unit	Appl Code		
13	Halex GT	3.6 pt/a	A	19.6	228
13	DiFlexx	8 fl oz/a	A		
13	Atrazine	0.56 lb/a	A		
13	Surfactant	0.25 % v/v	A		
14	Corvus	4.5 fl oz/a	A	19.3	226
14	Status	3 oz/a	A		
14	Atrazine	0.56 lb/a	A		
14	Surfactant	0.25 % v/v	A		
15	Acuron	2 qt/a	A	19.1	244
15	Status	3 oz/a	A		
15	Surfactant	0.25 % v/v	A		
16	Resicore	2.5 qt/a	A	19.3	232
16	Status	3 oz/a	A		
16	Atrazine	0.56 lb/a	A		
16	Surfactant	0.25 % v/v	A		
17	Capreno	3 fl oz/a	A	19.2	227
17	Roundup PowerMax	12 fl oz/a	A		
17	Status	3 oz/a	A		
17	Atrazine	0.56 lb/a	A		
18	Halex GT	3.6 pt/a	A	18.9	239
18	Status	3 oz/a	A		
18	Atrazine	0.56 lb/a	A		
18	Surfactant	0.25 % v/v	A		
	LSD P=.05			0.63	18.9
	Standard Deviation			0.45	13.3
	CV			2.32	5.66