

MSU Weed Science Research Program

One-pass early postemergence (EPOS) strategies for weed control in corn

Trial ID: C03-14 Study Dir.: Sprague and Powell  
 Conducted: Campus T-17 Investigator: Christy Sprague

Date Planted: May/08/2014 Row Spacing: 30 IN  
 Variety: P9807 AM No. of Reps: 4  
 Population: 32,000 seeds/A % OM: 4.1  
 Soil Type: Loam pH: 6.6  
 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**  
 Application Timing: EPOS  
 Date Treated: Jun/01/2014  
 Time Treated: 10:20 AM  
 % Cloud Cover: 50  
 Air Temp., Unit: 76 F  
 % Relative Humidity: 46.2  
 Wind Speed/Unit/Dir: 4 mph S  
 Soil Temp., Unit: 62 F  
 Soil/Leaf Surface M: 5 5  
 Soil Moist (1=w 5=d): 5

Crop Stage at Each Application

**A**  
 Crop Name: ZEAMX  
 Height (In.): 6"  
 Stage (L): V3-V4

Weed Stage at Each Application

**A**  
 Weed 1 Name: ANGR  
 Height (In.): 2.5"  
 Stage (L): 3-4  
 Weed 2 Name: CHEAL  
 Height (In.): 1"  
 Stage (L): 4-6  
 Weed 3 Name: AMAPO  
 Height (In.): 1"  
 Stage (L): 4  
 Weed 4 Name: AMBEL  
 Height (In.): 1.5"  
 Stage (L): 4-6  
 Weed 5 Name: ABUTH  
 Height (In.): 1.5"  
 Stage (L): 2

Weed Density (plants/sq. ft.)

Date:	1	2	3	4	5
Jul/17/2014	Jul/17/2014	Jul/17/2014	Jul/17/2014	Jul/17/2014	Jul/17/2014
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Density:	1	4	<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	25"	20"	100"	19	Water	30

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Weed Code								ZEAMX	ANGR	CHEAL	AMAPO
Crop Code								injury	control	control	control
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/09/2014	Jun/09/2014	Jun/09/2014	Jun/09/2014
Rating Date								8 DA-A	8 DA-A	8 DA-A	8 DA-A
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A	0	99	77	99
1	AMS		WG	17	lb/100 gal	EPOS	A				
2	TripleFLEX	4.16	L	1.5	pt/a	EPOS	A	2	99	85	99
2	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
2	AMS		WG	17	lb/100 gal	EPOS	A				
3	Capreno	3.45	L	3	fl oz/a	EPOS	A	2	99	99	99
3	AAtrex	90	WG	1.1	lb/a	EPOS	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
3	AMS		WG	17	lb/100 gal	EPOS	A				
4	Capreno	3.45	L	3	fl oz/a	EPOS	A	4	99	92	99
4	Clarity	4	L	1	pt/a	EPOS	A				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
4	AMS		WG	17	lb/100 gal	EPOS	A				
5	Halex GT	4.38	L	3.6	pt/a	EPOS	A	0	99	97	99
5	Surfactant		L	0.25	% v/v	EPOS	A				
5	AMS		WG	17	lb/100 gal	EPOS	A				
6	Halex GT	4.38	L	3.6	pt/a	EPOS	A	0	99	99	99
6	AAtrex	90	WG	1.1	lb/a	EPOS	A				
6	Surfactant		L	0.25	% v/v	EPOS	A				
6	AMS		WG	17	lb/100 gal	EPOS	A				
7	Untreated							0	0	0	0
8	Impact	2.8	L	0.75	fl oz/a	EPOS	A	0	99	99	99
8	AAtrex	90	WG	1.1	lb/a	EPOS	A				
8	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
8	MSO		L	0.5	% v/v	EPOS	A				
8	AMS		WG	17	lb/100 gal	EPOS	A				
9	Impact	2.8	L	1	fl oz/a	EPOS	A	0	99	99	99
9	AAtrex	90	WG	1.1	lb/a	EPOS	A				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
9	MSO		L	0.5	% v/v	EPOS	A				
9	AMS		WG	17	lb/100 gal	EPOS	A				
10	Impact	2.8	L	0.75	fl oz/a	EPOS	A	0	99	99	99
10	AAtrex	90	WG	1.1	lb/a	EPOS	A				
10	Warrant	3	L	3	pt/a	EPOS	A				
10	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
10	MSO		L	0.5	% v/v	EPOS	A				
10	AMS		WG	17	lb/100 gal	EPOS	A				
11	Degree Xtra	4.04	L	2.5	qt/a	EPOS	A	0	99	93	99
11	Impact	2.8	L	0.75	fl oz/a	EPOS	A				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
11	AMS		WG	17	lb/100 gal	EPOS	A				
12	Impact	2.8	L	0.75	fl oz/a	EPOS	A	2	99	99	99
12	Sequence	5.25	L	2.5	pt/a	EPOS	A				
12	AAtrex	90	WG	1.1	lb/a	EPOS	A				
12	Surfactant		L	0.25	% v/v	EPOS	A				
12	AMS		WG	17	lb/100 gal	EPOS	A				

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								ZEAMX	ANGR	CHEAL	AMAPO
								injury	control	control	control
								percent	percent	percent	percent
								Jun/09/2014	Jun/09/2014	Jun/09/2014	Jun/09/2014
								8 DA-A	8 DA-A	8 DA-A	8 DA-A
								0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Unit	Stg	Code					
13	Impact	2.8	L	0.75 fl oz/a	EPOS	A	0	99	99	99	
13	AAtrex	90	WG	1.1 lb/a	EPOS	A					
13	Zidua	85	WG	2 oz/a	EPOS	A					
13	Roundup PowerMax	4.5	SL	22 fl oz/a	EPOS	A					
13	MSO		L	0.5 % v/v	EPOS	A					
13	AMS		WG	17 lb/100 gal	EPOS	A					
14	Capreno	3.45	L	3 fl oz/a	EPOS	A	13	99	99	99	
14	AAtrex	90	WG	1.1 lb/a	EPOS	A					
14	Roundup PowerMax	4.5	SL	22 fl oz/a	EPOS	A					
14	MSO		L	0.5 % v/v	EPOS	A					
14	AMS		WG	17 lb/100 gal	EPOS	A					
LSD (P=.05)								2.1	0.5	5.1	0.0
CV								93.08	0.4	4.06	0.0

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

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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/09/2014	Jun/09/2014	Jun/16/2014	Jun/16/2014
Trt-Eval Interval								8 DA-A	8 DA-A	15 DA-A	15 DA-A
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A	90	99	0	94
1	AMS		WG	17	lb/100 gal	EPOS	A				
2	TripleFLEX	4.16	L	1.5	pt/a	EPOS	A	99	99	0	98
2	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
2	AMS		WG	17	lb/100 gal	EPOS	A				
3	Capreno	3.45	L	3	fl oz/a	EPOS	A	99	99	0	99
3	AAtrex	90	WG	1.1	lb/a	EPOS	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
3	AMS		WG	17	lb/100 gal	EPOS	A				
4	Capreno	3.45	L	3	fl oz/a	EPOS	A	99	99	2	99
4	Clarity	4	L	1	pt/a	EPOS	A				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
4	AMS		WG	17	lb/100 gal	EPOS	A				
5	Halex GT	4.38	L	3.6	pt/a	EPOS	A	96	99	0	99
5	Surfactant		L	0.25	% v/v	EPOS	A				
5	AMS		WG	17	lb/100 gal	EPOS	A				
6	Halex GT	4.38	L	3.6	pt/a	EPOS	A	99	99	0	99
6	AAtrex	90	WG	1.1	lb/a	EPOS	A				
6	Surfactant		L	0.25	% v/v	EPOS	A				
6	AMS		WG	17	lb/100 gal	EPOS	A				
7	Untreated							0	0	0	0
8	Impact	2.8	L	0.75	fl oz/a	EPOS	A	99	99	0	98
8	AAtrex	90	WG	1.1	lb/a	EPOS	A				
8	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
8	MSO		L	0.5	% v/v	EPOS	A				
8	AMS		WG	17	lb/100 gal	EPOS	A				
9	Impact	2.8	L	1	fl oz/a	EPOS	A	99	99	0	98
9	AAtrex	90	WG	1.1	lb/a	EPOS	A				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
9	MSO		L	0.5	% v/v	EPOS	A				
9	AMS		WG	17	lb/100 gal	EPOS	A				
10	Impact	2.8	L	0.75	fl oz/a	EPOS	A	99	99	0	99
10	AAtrex	90	WG	1.1	lb/a	EPOS	A				
10	Warrant	3	L	3	pt/a	EPOS	A				
10	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
10	MSO		L	0.5	% v/v	EPOS	A				
10	AMS		WG	17	lb/100 gal	EPOS	A				
11	Degree Xtra	4.04	L	2.5	qt/a	EPOS	A	99	99	0	99
11	Impact	2.8	L	0.75	fl oz/a	EPOS	A				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
11	AMS		WG	17	lb/100 gal	EPOS	A				
12	Impact	2.8	L	0.75	fl oz/a	EPOS	A	99	99	0	99
12	Sequence	5.25	L	2.5	pt/a	EPOS	A				
12	AAtrex	90	WG	1.1	lb/a	EPOS	A				
12	Surfactant		L	0.25	% v/v	EPOS	A				
12	AMS		WG	17	lb/100 gal	EPOS	A				

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								control	control	injury	control
								percent	percent	percent	percent
								Jun/09/2014	Jun/09/2014	Jun/16/2014	Jun/16/2014
								8 DA-A	8 DA-A	15 DA-A	15 DA-A
								0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Unit	Stg	Code					
13	Impact	2.8	L	0.75 fl oz/a	EPOS	A	99	99	0	99	
13	AAtrex	90	WG	1.1 lb/a	EPOS	A					
13	Zidua	85	WG	2 oz/a	EPOS	A					
13	Roundup PowerMax	4.5	SL	22 fl oz/a	EPOS	A					
13	MSO		L	0.5 % v/v	EPOS	A					
13	AMS		WG	17 lb/100 gal	EPOS	A					
14	Capreno	3.45	L	3 fl oz/a	EPOS	A	99	99	0	99	
14	AAtrex	90	WG	1.1 lb/a	EPOS	A					
14	Roundup PowerMax	4.5	SL	22 fl oz/a	EPOS	A					
14	MSO		L	0.5 % v/v	EPOS	A					
14	AMS		WG	17 lb/100 gal	EPOS	A					
LSD (P=.05)								3.8	0.0	0.6	3.0
CV								2.89	0.0	249.44	2.3

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

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								CHEAL	AMAPO	AMBEL	ABUTH
								control	control	control	control
								percent	percent	percent	percent
								Jun/16/2014	Jun/16/2014	Jun/16/2014	Jun/16/2014
								15 DA-A	15 DA-A	15 DA-A	15 DA-A
								0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Unit	Stg	Code					
1	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A	80	99	96	95
1	AMS		WG	17	lb/100 gal	EPOS	A				
2	TripleFLEX	4.16	L	1.5	pt/a	EPOS	A	91	99	99	98
2	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
2	AMS		WG	17	lb/100 gal	EPOS	A				
3	Capreno	3.45	L	3	fl oz/a	EPOS	A	99	99	99	99
3	AAtrex	90	WG	1.1	lb/a	EPOS	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
3	AMS		WG	17	lb/100 gal	EPOS	A				
4	Capreno	3.45	L	3	fl oz/a	EPOS	A	99	99	99	99
4	Clarity	4	L	1	pt/a	EPOS	A				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
4	AMS		WG	17	lb/100 gal	EPOS	A				
5	Halex GT	4.38	L	3.6	pt/a	EPOS	A	99	99	97	98
5	Surfactant		L	0.25	% v/v	EPOS	A				
5	AMS		WG	17	lb/100 gal	EPOS	A				
6	Halex GT	4.38	L	3.6	pt/a	EPOS	A	99	99	98	98
6	AAtrex	90	WG	1.1	lb/a	EPOS	A				
6	Surfactant		L	0.25	% v/v	EPOS	A				
6	AMS		WG	17	lb/100 gal	EPOS	A				
7	Untreated							0	0	0	0
8	Impact	2.8	L	0.75	fl oz/a	EPOS	A	99	99	99	95
8	AAtrex	90	WG	1.1	lb/a	EPOS	A				
8	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
8	MSO		L	0.5	% v/v	EPOS	A				
8	AMS		WG	17	lb/100 gal	EPOS	A				
9	Impact	2.8	L	1	fl oz/a	EPOS	A	99	99	99	97
9	AAtrex	90	WG	1.1	lb/a	EPOS	A				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
9	MSO		L	0.5	% v/v	EPOS	A				
9	AMS		WG	17	lb/100 gal	EPOS	A				
10	Impact	2.8	L	0.75	fl oz/a	EPOS	A	99	99	99	95
10	AAtrex	90	WG	1.1	lb/a	EPOS	A				
10	Warrant	3	L	3	pt/a	EPOS	A				
10	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
10	MSO		L	0.5	% v/v	EPOS	A				
10	AMS		WG	17	lb/100 gal	EPOS	A				
11	Degree Xtra	4.04	L	2.5	qt/a	EPOS	A	91	99	99	98
11	Impact	2.8	L	0.75	fl oz/a	EPOS	A				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
11	AMS		WG	17	lb/100 gal	EPOS	A				
12	Impact	2.8	L	0.75	fl oz/a	EPOS	A	99	99	99	95
12	Sequence	5.25	L	2.5	pt/a	EPOS	A				
12	AAtrex	90	WG	1.1	lb/a	EPOS	A				
12	Surfactant		L	0.25	% v/v	EPOS	A				
12	AMS		WG	17	lb/100 gal	EPOS	A				

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								CHEAL	AMAPO	AMBEL	ABUTH
Weed Code											
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								Jun/16/2014	Jun/16/2014	Jun/16/2014	Jun/16/2014
Trt-Eval Interval								15 DA-A	15 DA-A	15 DA-A	15 DA-A
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
13	Impact	2.8	L	0.75	fl oz/a	EPOS	A	99	99	99	99
13	AAtrex	90	WG	1.1	lb/a	EPOS	A				
13	Zidua	85	WG	2	oz/a	EPOS	A				
13	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
13	MSO		L	0.5	% v/v	EPOS	A				
13	AMS		WG	17	lb/100 gal	EPOS	A				
14	Capreno	3.45	L	3	fl oz/a	EPOS	A	99	99	99	99
14	AAtrex	90	WG	1.1	lb/a	EPOS	A				
14	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
14	MSO		L	0.5	% v/v	EPOS	A				
14	AMS		WG	17	lb/100 gal	EPOS	A				
LSD (P=.05)								3.9	0.0	2.7	3.0
CV								3.03	0.0	2.07	2.36

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Weed Code								ZEAMX	ANGR	CHEAL	AMAPO
Crop Code								injury	control	control	control
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/30/2014	Jun/30/2014	Jun/30/2014	Jun/30/2014
Rating Date								29 DA-A	29 DA-A	29 DA-A	29 DA-A
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A	0	91	72	83
1	AMS		WG	17	lb/100 gal	EPOS	A				
2	TripleFLEX	4.16	L	1.5	pt/a	EPOS	A	0	99	89	99
2	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
2	AMS		WG	17	lb/100 gal	EPOS	A				
3	Capreno	3.45	L	3	fl oz/a	EPOS	A	0	99	99	99
3	AAtrex	90	WG	1.1	lb/a	EPOS	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
3	AMS		WG	17	lb/100 gal	EPOS	A				
4	Capreno	3.45	L	3	fl oz/a	EPOS	A	0	99	98	99
4	Clarity	4	L	1	pt/a	EPOS	A				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
4	AMS		WG	17	lb/100 gal	EPOS	A				
5	Halex GT	4.38	L	3.6	pt/a	EPOS	A	0	98	95	99
5	Surfactant		L	0.25	% v/v	EPOS	A				
5	AMS		WG	17	lb/100 gal	EPOS	A				
6	Halex GT	4.38	L	3.6	pt/a	EPOS	A	0	99	99	99
6	AAtrex	90	WG	1.1	lb/a	EPOS	A				
6	Surfactant		L	0.25	% v/v	EPOS	A				
6	AMS		WG	17	lb/100 gal	EPOS	A				
7	Untreated							0	0	0	0
8	Impact	2.8	L	0.75	fl oz/a	EPOS	A	0	97	99	99
8	AAtrex	90	WG	1.1	lb/a	EPOS	A				
8	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
8	MSO		L	0.5	% v/v	EPOS	A				
8	AMS		WG	17	lb/100 gal	EPOS	A				
9	Impact	2.8	L	1	fl oz/a	EPOS	A	0	96	99	99
9	AAtrex	90	WG	1.1	lb/a	EPOS	A				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
9	MSO		L	0.5	% v/v	EPOS	A				
9	AMS		WG	17	lb/100 gal	EPOS	A				
10	Impact	2.8	L	0.75	fl oz/a	EPOS	A	0	99	99	99
10	AAtrex	90	WG	1.1	lb/a	EPOS	A				
10	Warrant	3	L	3	pt/a	EPOS	A				
10	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
10	MSO		L	0.5	% v/v	EPOS	A				
10	AMS		WG	17	lb/100 gal	EPOS	A				
11	Degree Xtra	4.04	L	2.5	qt/a	EPOS	A	0	99	93	99
11	Impact	2.8	L	0.75	fl oz/a	EPOS	A				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
11	AMS		WG	17	lb/100 gal	EPOS	A				
12	Impact	2.8	L	0.75	fl oz/a	EPOS	A	0	99	99	99
12	Sequence	5.25	L	2.5	pt/a	EPOS	A				
12	AAtrex	90	WG	1.1	lb/a	EPOS	A				
12	Surfactant		L	0.25	% v/v	EPOS	A				
12	AMS		WG	17	lb/100 gal	EPOS	A				



MSU Weed Science Research Program

One-pass early postemergence (EPOS) strategies for weed control in corn

Trial ID: C03-14  
 Conducted: Campus T-17

Study Dir.: Sprague and Powell  
 Investigator: Christy Sprague

								ZEAMX	ANGR	CHEAL	AMAPO
								injury	control	control	control
								percent	percent	percent	percent
								Jun/30/2014	Jun/30/2014	Jun/30/2014	Jun/30/2014
								29 DA-A	29 DA-A	29 DA-A	29 DA-A
								0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Unit	Stg	Code					
13	Impact	2.8	L	0.75 fl oz/a	EPOS	A	0	99	99	99	
13	AAtrex	90	WG	1.1 lb/a	EPOS	A					
13	Zidua	85	WG	2 oz/a	EPOS	A					
13	Roundup PowerMax	4.5	SL	22 fl oz/a	EPOS	A					
13	MSO		L	0.5 % v/v	EPOS	A					
13	AMS		WG	17 lb/100 gal	EPOS	A					
14	Capreno	3.45	L	3 fl oz/a	EPOS	A	2	99	99	99	
14	AAtrex	90	WG	1.1 lb/a	EPOS	A					
14	Roundup PowerMax	4.5	SL	22 fl oz/a	EPOS	A					
14	MSO		L	0.5 % v/v	EPOS	A					
14	AMS		WG	17 lb/100 gal	EPOS	A					
LSD (P=.05)								0.6	3.1	4.6	1.9
CV								249.44	2.4	3.68	1.47

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

MSU Weed Science Research Program

One-pass early postemergence (EPOS) strategies for weed control in corn

Trial ID: C03-14  
 Conducted: Campus T-17

Study Dir.: Sprague and Powell  
 Investigator: Christy Sprague

Weed Code								AMBEL	ABUTH	ZEAMX	ZEAMX
Crop Code								control	control	moisture	yield
Rating Data Type								percent	percent	percent	bu/acre
Rating Unit								Jun/30/2014	Jun/30/2014	Nov/09/2014	Nov/09/2014
Rating Date								29 DA-A	29 DA-A	161 DA-A	at 14% M
Trt-Eval Interval								0	0	1	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A	86	84	17.3	248
1	AMS		WG	17	lb/100 gal	EPOS	A				
2	TripleFLEX	4.16	L	1.5	pt/a	EPOS	A	99	97	17.4	254
2	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
2	AMS		WG	17	lb/100 gal	EPOS	A				
3	Capreno	3.45	L	3	fl oz/a	EPOS	A	99	99	17.5	256
3	AAtrex	90	WG	1.1	lb/a	EPOS	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
3	AMS		WG	17	lb/100 gal	EPOS	A				
4	Capreno	3.45	L	3	fl oz/a	EPOS	A	99	99	16.7	251
4	Clarity	4	L	1	pt/a	EPOS	A				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
4	AMS		WG	17	lb/100 gal	EPOS	A				
5	Halex GT	4.38	L	3.6	pt/a	EPOS	A	94	97	17.5	255
5	Surfactant		L	0.25	% v/v	EPOS	A				
5	AMS		WG	17	lb/100 gal	EPOS	A				
6	Halex GT	4.38	L	3.6	pt/a	EPOS	A	99	99	18.0	257
6	AAtrex	90	WG	1.1	lb/a	EPOS	A				
6	Surfactant		L	0.25	% v/v	EPOS	A				
6	AMS		WG	17	lb/100 gal	EPOS	A				
7	Untreated							0	0	18.2	177
8	Impact	2.8	L	0.75	fl oz/a	EPOS	A	99	97	17.3	258
8	AAtrex	90	WG	1.1	lb/a	EPOS	A				
8	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
8	MSO		L	0.5	% v/v	EPOS	A				
8	AMS		WG	17	lb/100 gal	EPOS	A				
9	Impact	2.8	L	1	fl oz/a	EPOS	A	99	98	17.5	253
9	AAtrex	90	WG	1.1	lb/a	EPOS	A				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
9	MSO		L	0.5	% v/v	EPOS	A				
9	AMS		WG	17	lb/100 gal	EPOS	A				
10	Impact	2.8	L	0.75	fl oz/a	EPOS	A	99	96	17.3	247
10	AAtrex	90	WG	1.1	lb/a	EPOS	A				
10	Warrant	3	L	3	pt/a	EPOS	A				
10	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
10	MSO		L	0.5	% v/v	EPOS	A				
10	AMS		WG	17	lb/100 gal	EPOS	A				
11	Degree Xtra	4.04	L	2.5	qt/a	EPOS	A	98	97	17.5	249
11	Impact	2.8	L	0.75	fl oz/a	EPOS	A				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
11	AMS		WG	17	lb/100 gal	EPOS	A				
12	Impact	2.8	L	0.75	fl oz/a	EPOS	A	99	96	17.6	256
12	Sequence	5.25	L	2.5	pt/a	EPOS	A				
12	AAtrex	90	WG	1.1	lb/a	EPOS	A				
12	Surfactant		L	0.25	% v/v	EPOS	A				
12	AMS		WG	17	lb/100 gal	EPOS	A				

MSU Weed Science Research Program

One-pass early postemergence (EPOS) strategies for weed control in corn

Trial ID: C03-14  
 Conducted: Campus T-17

Study Dir.: Sprague and Powell  
 Investigator: Christy Sprague

								AMBEL	ABUTH	ZEAMX	ZEAMX
								control	control	moisture	yield
								percent	percent	percent	bu/acre
								Jun/30/2014	Jun/30/2014	Nov/09/2014	Nov/09/2014
								29 DA-A	29 DA-A	161 DA-A	at 14% M
								0	0	1	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
13	Impact	2.8	L	0.75	fl oz/a	EPOS	A	99	99	17.2	243
13	AAtrex	90	WG	1.1	lb/a	EPOS	A				
13	Zidua	85	WG	2	oz/a	EPOS	A				
13	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
13	MSO		L	0.5	% v/v	EPOS	A				
13	AMS		WG	17	lb/100 gal	EPOS	A				
14	Capreno	3.45	L	3	fl oz/a	EPOS	A	99	99	17.2	249
14	AAtrex	90	WG	1.1	lb/a	EPOS	A				
14	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	A				
14	MSO		L	0.5	% v/v	EPOS	A				
14	AMS		WG	17	lb/100 gal	EPOS	A				
LSD (P=.05)								2.2	3.1	1.06	12.2
CV								1.73	2.45	4.25	3.47

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