

Comparison of two-pass weed control systems in corn

Trial ID: C07-19 Study Dir.: Burns, Craft
 Conducted: Campus C-27 Investigator: Erin Burns

Planting Date: May-15-2019 **Row Spacing:** 30 IN
Variety: P9840AM **No. of Reps:** 4
Population: 32300 S/A **% OM:** 2.5
Soil Type: SL sandy loam **pH:** 6.1
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plowed: spring soil finished twice
Fertilizer: 300 lbs/A urea incorporated
 157 lbs/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

	A	B
Application Timing:	PRE	POST
Date Treated:	May-16-2019	Jun-23-2019
Time Treated:	8:45 AM	12:00 PM
% Cloud Cover:	70	40
Air Temp., Unit:	60 F	86 F
% Relative Humidity:	60.3	43.6
Wind Speed/Unit/Dir:	4.5 MPH S	3.25 MPH SW
Soil Temp, Unit:	50.2 F	80 F
Leaf Moist/Dew Presence (Y/N):		N
Soil Moist:	4	2

Crop Stage at Each Application

	A	B
Crop 1 Name:	ZEAMX	ZEAMX
Height:		
Stage:	PRE	V4-5

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height:		4 IN
Stage:		5 L
Weed 2 Name:	CHEAL	CHEAL
Height:		2 IN
Stage:		7 L
Weed 3 Name:	AMAPO	AMAPO
Height:		3 IN
Stage:		5 L
Weed 4 Name:	AMBEL	AMBEL
Height:		3 IN
Stage:		9 L
Weed 5 Name:	ABUTH	ABUTH
Height:		3.5 IN
Stage:		4 L

Weed Density

	1	2	3	4	5
Date:	Jun-23-2019	Jun-23-2019	Jun-23-2019	Jun-23-2019	Jun-23-2019
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Density:	16 FT2	8 FT2	1 FT2	3 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	22 "	20 "	100 "	19 GPA	WATER	30 PSI
B	CUB	3.8 MPH	AIXR	11003	24 "	20 "	100 "	19 GPA	WATER	30 PSI

Comments:

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Pest Code				ANGR	CHEAL	AMAPO	AMBEL	ABUTH		
Crop Type, Code			ZEAMX						ZEAMX	
Rating Date			Jun-25-2019	Jun-25-2019	Jun-25-2019	Jun-25-2019	Jun-25-2019	Jun-25-2019	Jul-11-2019	
Rating Type			injury	Control	Control	Control	Control	Control	injury	
Rating Unit			percent	percent	percent	percent	percent	percent	percent	
Trt-Eval Interval			2 DA-B	2 DA-B	2 DA-B	2 DA-B	2 DA-B	2 DA-B	18 DA-B	
Trt No.	Treatment Name	Rate Unit	Appl Code							
1	Corvus	4 fl oz/a	A	0.0	100.0	100.0	100.0	100.0	100.0	0.0
1	Atrazine	1.65 lb/a	A							
1	Harness MAX	40 fl oz/a	B							
1	Atrazine	0.55 lb/a	B							
1	Roundup PowerMax	32 fl oz/a	B							
1	AMS	8.5 lb/100 gal	B							
2	Balance Flexx	4 fl oz/a	A	0.0	100.0	100.0	100.0	100.0	99.5	0.0
2	Harness Xtra	1.8 qt/a	A							
2	Capreno	3 fl oz/a	B							
2	Atrazine	0.55 lb/a	B							
2	Roundup PowerMax	32 fl oz/a	B							
2	AMS	8.5 lb/100 gal	B							
2	Superb HC	0.5 % v/v	B							
3	Corvus	4.5 fl oz/a	A	10.0	97.5	100.0	100.0	100.0	100.0	0.0
3	Atrazine	1.65 lb/a	A							
3	DiFlexx DUO	32 fl oz/a	B							
3	Roundup PowerMax	32 fl oz/a	B							
3	AMS	8.5 lb/100 gal	B							
3	Superb HC	0.5 % v/v	B							
4	Balance Flexx	4 fl oz/a	A	10.0	100.0	100.0	100.0	100.0	100.0	0.0
4	Harness Xtra	1.8 qt/a	A							
4	DiFlexx DUO	32 fl oz/a	B							
4	Roundup PowerMax	32 fl oz/a	B							
4	AMS	8.5 lb/100 gal	B							
4	Superb HC	0.5 % v/v	B							
5	Untreated			0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	Balance Flexx	4 fl oz/a	A	10.0	97.5	100.0	100.0	100.0	100.0	0.0
6	DiFlexx DUO	32 fl oz/a	B							
6	Warrant	1.5 qt/a	B							
6	Roundup PowerMax	32 fl oz/a	B							
6	AMS	8.5 lb/100 gal	B							
6	Superb HC	0.5 % v/v	B							
7	Harness Xtra	1.8 qt/a	A	0.0	100.0	100.0	100.0	92.5	92.5	0.0
7	Laudis	3 fl oz/a	B							
7	Warrant	1.5 qt/a	B							
7	Roundup PowerMax	32 fl oz/a	B							
7	AMS	8.5 lb/100 gal	B							
7	Superb HC	0.5 % v/v	B							
8	Harness Xtra	1.8 qt/a	A	0.0	100.0	100.0	100.0	95.0	95.0	0.0
8	Capreno	3 fl oz/a	B							
8	Warrant	1.5 qt/a	B							
8	Roundup PowerMax	32 fl oz/a	B							
8	AMS	8.5 lb/100 gal	B							
8	Superb HC	0.5 % v/v	B							
9	Corvus	4 fl oz/a	A	10.0	100.0	100.0	100.0	100.0	100.0	0.0
9	Harness Xtra	1.8 qt/a	A							
9	DiFlexx	8 oz/a	B							
9	Roundup PowerMax	32 fl oz/a	B							
9	AMS	8.5 lb/100 gal	B							
9	Superb HC	0.5 % v/v	B							

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 Sponsor Contact:

Pest Code	Crop Type, Code	Rating Date	Rating Type	Rating Unit	Trt-Eval Interval	ZEAMX		ANGR	CHEAL	AMAPO	AMBEL	ABUTH	ZEAMX
						Jun-25-2019	injury percent 2 DA-B	Jun-25-2019	Control percent 2 DA-B	Jun-25-2019	Control percent 2 DA-B	Jun-25-2019	Control percent 2 DA-B
10	Acuron	1.5 qt/a	A			0.0		100.0	100.0	100.0	100.0	100.0	0.0
10	Acuron	1.5 qt/a	B										
10	Roundup PowerMax	32 fl oz/a	B										
10	AMS	8.5 lb/100 gal	B										
10	Surfactant	0.25 % v/v	B										
11	Harness Xtra	1.4 qt/a	A			0.0		99.5	100.0	100.0	87.5	83.8	0.0
11	ImpactZ	10.7 fl oz/a	B										
11	MSO	1 % v/v	B										
11	AMS	8.5 lb/100 gal	B										
12	Harness Xtra	1.4 qt/a	A			0.0		100.0	100.0	100.0	93.8	91.3	0.0
12	ImpactZ	8 fl oz/a	B										
12	Liberty	22 fl oz/a	B										
12	MSO	0.5 % v/v	B										
12	AMS	8.5 lb/100 gal	B										
13	Harness Xtra	1.4 qt/a	A			0.0		100.0	100.0	100.0	91.3	91.3	0.0
13	Shieldex	1.35 fl oz/a	B										
13	Atrazine	0.372 lb/a	B										
13	MSO	1 % v/v	B										
13	AMS	8.5 lb/100 gal	B										
14	Moccasin II Plus	1.3 pt/a	A			0.0		100.0	100.0	100.0	100.0	100.0	0.0
14	Motif	3 fl oz/a	A										
14	Atrazine	1.1 lb/a	A										
14	Atrazine	0.56 lb/a	B										
14	Roundup PowerMax	32 fl oz/a	B										
14	AMS	17 lb/100 gal	B										
15	Moccasin II Plus	1.3 pt/a	A			0.0		100.0	100.0	99.5	71.3	83.3	0.0
15	Simazine	1 qt/a	A										
15	Atrazine	0.56 lb/a	B										
15	Roundup PowerMax	32 fl oz/a	B										
15	AMS	17 lb/100 gal	B										
16	Satellite HydroCap	3 pt/a	A			0.0		93.8	100.0	100.0	65.0	92.5	0.0
16	Simazine	1 qt/a	A										
16	Atrazine	0.56 lb/a	B										
16	Roundup PowerMax	32 fl oz/a	B										
16	AMS	17 lb/100 gal	B										
LSD P=.05						.		3.39	.	0.36	5.21	6.51	.
Standard Deviation						0.00		2.38	0.00	0.25	3.66	4.57	0.00
CV						0.0		2.56	0.0	0.27	4.19	5.11	0.0

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Pest Code			ANGR	CHEAL	AMAPO	AMBEL	ABUTH		ANGR	CHEAL	
Crop Type, Code								ZEAMX			
Rating Date			Jul-11-2019	Jul-11-2019	Jul-11-2019	Jul-11-2019	Jul-11-2019	Jul-24-2019	Jul-24-2019	Jul-24-2019	
Rating Type			Control	Control	Control	Control	Control	injury	Control	Control	
Rating Unit			percent	percent	percent	percent	percent	percent	percent	percent	
Trt-Eval Interval			18 DA-B	18 DA-B	18 DA-B	18 DA-B	18 DA-B	31 DA-B	31 DA-B	31 DA-B	
Trt No.	Treatment Name	Rate Unit	Appl Code								
1	Corvus	4 fl oz/a	A	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0
1	Atrazine	1.65 lb/a	A								
1	Harness MAX	40 fl oz/a	B								
1	Atrazine	0.55 lb/a	B								
1	Roundup PowerMax	32 fl oz/a	B								
1	AMS	8.5 lb/100 gal	B								
2	Balance Flexx	4 fl oz/a	A	100.0	100.0	100.0	100.0	99.5	0.0	100.0	100.0
2	Harness Xtra	1.8 qt/a	A								
2	Capreno	3 fl oz/a	B								
2	Atrazine	0.55 lb/a	B								
2	Roundup PowerMax	32 fl oz/a	B								
2	AMS	8.5 lb/100 gal	B								
2	Superb HC	0.5 % v/v	B								
3	Corvus	4.5 fl oz/a	A	98.8	100.0	100.0	100.0	100.0	0.0	94.5	100.0
3	Atrazine	1.65 lb/a	A								
3	DiFlexx DUO	32 fl oz/a	B								
3	Roundup PowerMax	32 fl oz/a	B								
3	AMS	8.5 lb/100 gal	B								
3	Superb HC	0.5 % v/v	B								
4	Balance Flexx	4 fl oz/a	A	98.8	100.0	100.0	100.0	100.0	0.0	94.5	100.0
4	Harness Xtra	1.8 qt/a	A								
4	DiFlexx DUO	32 fl oz/a	B								
4	Roundup PowerMax	32 fl oz/a	B								
4	AMS	8.5 lb/100 gal	B								
4	Superb HC	0.5 % v/v	B								
5	Untreated			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	Balance Flexx	4 fl oz/a	A	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0
6	DiFlexx DUO	32 fl oz/a	B								
6	Warrant	1.5 qt/a	B								
6	Roundup PowerMax	32 fl oz/a	B								
6	AMS	8.5 lb/100 gal	B								
6	Superb HC	0.5 % v/v	B								
7	Harness Xtra	1.8 qt/a	A	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0
7	Laudis	3 fl oz/a	B								
7	Warrant	1.5 qt/a	B								
7	Roundup PowerMax	32 fl oz/a	B								
7	AMS	8.5 lb/100 gal	B								
7	Superb HC	0.5 % v/v	B								
8	Harness Xtra	1.8 qt/a	A	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0
8	Capreno	3 fl oz/a	B								
8	Warrant	1.5 qt/a	B								
8	Roundup PowerMax	32 fl oz/a	B								
8	AMS	8.5 lb/100 gal	B								
8	Superb HC	0.5 % v/v	B								
9	Corvus	4 fl oz/a	A	99.5	100.0	100.0	100.0	99.5	0.0	96.5	100.0
9	Harness Xtra	1.8 qt/a	A								
9	DiFlexx	8 oz/a	B								
9	Roundup PowerMax	32 fl oz/a	B								
9	AMS	8.5 lb/100 gal	B								
9	Superb HC	0.5 % v/v	B								

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Pest Code			ANGR	CHEAL	AMAPO	AMBEL	ABUTH	ZEAMX	ANGR	CHEAL	
Crop Type, Code											
Rating Date			Jul-11-2019	Jul-11-2019	Jul-11-2019	Jul-11-2019	Jul-11-2019	Jul-24-2019	Jul-24-2019	Jul-24-2019	
Rating Type			Control	Control	Control	Control	Control	injury	Control	Control	
Rating Unit			percent	percent	percent	percent	percent	percent	percent	percent	
Trt-Eval Interval			18 DA-B	18 DA-B	18 DA-B	18 DA-B	18 DA-B	31 DA-B	31 DA-B	31 DA-B	
Trt No.	Treatment Name	Rate Unit	Appl Code								
10	Acuron	1.5 qt/a	A	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0
10	Acuron	1.5 qt/a	B								
10	Roundup PowerMax	32 fl oz/a	B								
10	AMS	8.5 lb/100 gal	B								
10	Surfactant	0.25 % v/v	B								
11	Harness Xtra	1.4 qt/a	A	93.8	100.0	100.0	100.0	100.0	0.0	97.8	100.0
11	ImpactZ	10.7 fl oz/a	B								
11	MSO	1 % v/v	B								
11	AMS	8.5 lb/100 gal	B								
12	Harness Xtra	1.4 qt/a	A	95.8	100.0	100.0	100.0	98.8	0.0	95.8	100.0
12	ImpactZ	8 fl oz/a	B								
12	Liberty	22 fl oz/a	B								
12	MSO	0.5 % v/v	B								
12	AMS	8.5 lb/100 gal	B								
13	Harness Xtra	1.4 qt/a	A	96.5	100.0	100.0	100.0	99.0	0.0	95.3	100.0
13	Shieldex	1.35 fl oz/a	B								
13	Atrazine	0.372 lb/a	B								
13	MSO	1 % v/v	B								
13	AMS	8.5 lb/100 gal	B								
14	Moccasin II Plus	1.3 pt/a	A	100.0	100.0	100.0	100.0	98.8	0.0	100.0	98.8
14	Motif	3 fl oz/a	A								
14	Atrazine	1.1 lb/a	A								
14	Atrazine	0.56 lb/a	B								
14	Roundup PowerMax	32 fl oz/a	B								
14	AMS	17 lb/100 gal	B								
15	Moccasin II Plus	1.3 pt/a	A	96.3	100.0	100.0	90.0	95.8	0.0	100.0	100.0
15	Simazine	1 qt/a	A								
15	Atrazine	0.56 lb/a	B								
15	Roundup PowerMax	32 fl oz/a	B								
15	AMS	17 lb/100 gal	B								
16	Satellite HydroCap	3 pt/a	A	88.8	100.0	100.0	72.5	90.0	0.0	92.5	100.0
16	Simazine	1 qt/a	A								
16	Atrazine	0.56 lb/a	B								
16	Roundup PowerMax	32 fl oz/a	B								
16	AMS	17 lb/100 gal	B								
LSD	P=.05			4.16	.	.	3.13	3.99	.	3.82	0.89
Standard Deviation				2.92	0.00	0.00	2.20	2.80	0.00	2.68	0.63
CV				3.18	0.0	0.0	2.4	3.02	0.0	2.92	0.67

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Pest Code			AMAPO	AMBEL	ABUTH	ZEAMX	ZEAMX	ZEAMX	
Crop Type, Code			Jul-24-2019	Jul-24-2019	Jul-24-2019	Oct-15-2019	Oct-15-2019	Oct-15-2019	
Rating Date			Control	Control	Control	test weight	moisture	YIELD	
Rating Type			percent	percent	percent	lbs/bu	percent	BU	
Rating Unit			31 DA-B	31 DA-B	31 DA-B	114 DA-B	114 DA-B	at 15% M	
Trt-Eval Interval									
Trt No.	Treatment Name	Rate Unit	Appl Code						
1	Corvus	4 fl oz/a	A	100.0	100.0	100.0	54.63	21.30	160.0
1	Atrazine	1.65 lb/a	A						
1	Harness MAX	40 fl oz/a	B						
1	Atrazine	0.55 lb/a	B						
1	Roundup PowerMax	32 fl oz/a	B						
1	AMS	8.5 lb/100 gal	B						
2	Balance Flexx	4 fl oz/a	A	100.0	100.0	100.0	53.75	21.65	157.3
2	Harness Xtra	1.8 qt/a	A						
2	Capreno	3 fl oz/a	B						
2	Atrazine	0.55 lb/a	B						
2	Roundup PowerMax	32 fl oz/a	B						
2	AMS	8.5 lb/100 gal	B						
2	Superb HC	0.5 % v/v	B						
3	Corvus	4.5 fl oz/a	A	100.0	100.0	100.0	53.98	21.55	157.0
3	Atrazine	1.65 lb/a	A						
3	DiFlexx DUO	32 fl oz/a	B						
3	Roundup PowerMax	32 fl oz/a	B						
3	AMS	8.5 lb/100 gal	B						
3	Superb HC	0.5 % v/v	B						
4	Balance Flexx	4 fl oz/a	A	100.0	100.0	100.0	54.20	21.00	156.2
4	Harness Xtra	1.8 qt/a	A						
4	DiFlexx DUO	32 fl oz/a	B						
4	Roundup PowerMax	32 fl oz/a	B						
4	AMS	8.5 lb/100 gal	B						
4	Superb HC	0.5 % v/v	B						
5	Untreated			0.0	0.0	0.0	54.63	22.30	88.7
6	Balance Flexx	4 fl oz/a	A	100.0	100.0	100.0	54.33	20.90	156.0
6	DiFlexx DUO	32 fl oz/a	B						
6	Warrant	1.5 qt/a	B						
6	Roundup PowerMax	32 fl oz/a	B						
6	AMS	8.5 lb/100 gal	B						
6	Superb HC	0.5 % v/v	B						
7	Harness Xtra	1.8 qt/a	A	100.0	100.0	100.0	54.98	20.53	166.8
7	Laudis	3 fl oz/a	B						
7	Warrant	1.5 qt/a	B						
7	Roundup PowerMax	32 fl oz/a	B						
7	AMS	8.5 lb/100 gal	B						
7	Superb HC	0.5 % v/v	B						
8	Harness Xtra	1.8 qt/a	A	100.0	100.0	100.0	54.45	21.00	158.0
8	Capreno	3 fl oz/a	B						
8	Warrant	1.5 qt/a	B						
8	Roundup PowerMax	32 fl oz/a	B						
8	AMS	8.5 lb/100 gal	B						
8	Superb HC	0.5 % v/v	B						
9	Corvus	4 fl oz/a	A	100.0	100.0	99.5	55.03	20.98	156.1
9	Harness Xtra	1.8 qt/a	A						
9	DiFlexx	8 oz/a	B						
9	Roundup PowerMax	32 fl oz/a	B						
9	AMS	8.5 lb/100 gal	B						
9	Superb HC	0.5 % v/v	B						

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Pest Code			AMAPO	AMBEL	ABUTH	ZEAMX	ZEAMX	ZEAMX	
Crop Type, Code									
Rating Date			Jul-24-2019	Jul-24-2019	Jul-24-2019	Oct-15-2019	Oct-15-2019	Oct-15-2019	
Rating Type			Control	Control	Control	test weight	moisture	YIELD	
Rating Unit			percent	percent	percent	lbs/bu	percent	BU	
Trt-Eval Interval			31 DA-B	31 DA-B	31 DA-B	114 DA-B	114 DA-B	at 15% M	
Trt No.	Treatment Name	Rate Unit	Appl Code						
10	Acuron	1.5 qt/a	A	100.0	100.0	100.0	54.45	20.40	162.3
10	Acuron	1.5 qt/a	B						
10	Roundup PowerMax	32 fl oz/a	B						
10	AMS	8.5 lb/100 gal	B						
10	Surfactant	0.25 % v/v	B						
11	Harness Xtra	1.4 qt/a	A	100.0	100.0	100.0	54.88	21.28	165.1
11	ImpactZ	10.7 fl oz/a	B						
11	MSO	1 % v/v	B						
11	AMS	8.5 lb/100 gal	B						
12	Harness Xtra	1.4 qt/a	A	100.0	100.0	100.0	54.30	21.83	156.7
12	ImpactZ	8 fl oz/a	B						
12	Liberty	22 fl oz/a	B						
12	MSO	0.5 % v/v	B						
12	AMS	8.5 lb/100 gal	B						
13	Harness Xtra	1.4 qt/a	A	100.0	100.0	100.0	54.50	20.90	140.8
13	Shieldex	1.35 fl oz/a	B						
13	Atrazine	0.372 lb/a	B						
13	MSO	1 % v/v	B						
13	AMS	8.5 lb/100 gal	B						
14	Moccasin II Plus	1.3 pt/a	A	98.8	98.8	98.8	53.60	21.83	150.1
14	Motif	3 fl oz/a	A						
14	Atrazine	1.1 lb/a	A						
14	Atrazine	0.56 lb/a	B						
14	Roundup PowerMax	32 fl oz/a	B						
14	AMS	17 lb/100 gal	B						
15	Moccasin II Plus	1.3 pt/a	A	100.0	92.5	98.8	54.63	20.78	152.9
15	Simazine	1 qt/a	A						
15	Atrazine	0.56 lb/a	B						
15	Roundup PowerMax	32 fl oz/a	B						
15	AMS	17 lb/100 gal	B						
16	Satellite HydroCap	3 pt/a	A	100.0	82.5	97.5	54.15	22.40	147.8
16	Simazine	1 qt/a	A						
16	Atrazine	0.56 lb/a	B						
16	Roundup PowerMax	32 fl oz/a	B						
16	AMS	17 lb/100 gal	B						
LSD P=.05				0.89	2.27	2.20	1.210	2.288	22.84
Standard Deviation				0.63	1.59	1.55	0.850	1.607	16.03
CV				0.67	1.73	1.66	1.56	7.55	10.55

Could not calculate LSD (% mean diff) for columns 1,3,7,9,10,13 because error mean square = 0.