

Comparison of various weed control systems in corn

Trial ID: C10-17 Study Dir.: Burns, Stiles, Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Planting Date: 5/15/17 **Row Spacing:** 30 IN
Variety: DKC4972 **No. of Reps:** 4
Population: 33500 S/A **% OM:** 2.9
Soil Type: SCL sandy clay loam **pH:** 5.9
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	lambsquarters, common	Chenopodium album
3	AMAPO	amaranth, Powell	Amaranthus powellii
4	AMBEL	ragweed, common	Ambrosia artemisiifolia
5	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	ZEAMX	Corn	

Application Description

	A	B	C
Application Timing:	PRE	EPOS	POST
Date Treated:	5/15/17	6/7/17	6/13/17
Time Treated:	8:30 PM	9:20 AM	3:00 PM
% Cloud Cover:	90	0	50
Air Temp., Unit:	68 F	61 F	87 F
% Relative Humidity:	36	65	62
Wind Speed/Unit/Dir:	0 mph	2.3 mph N	5.2 mph NNW
Soil Temp, Unit:	67 F	65.3 F	82 F
Leaf Moist/Dew Presence (Y/N):	5	5	5
Soil Moist:	4.5	5	5

Crop Stage at Each Application

	A	B	C
Crop 1 Name:	ZEAMX	ZEAMX	ZEAMX
Height:		5 "	12 "
Stage:		V3	V5

Weed Stage at Each Application

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

Weed Density

	1	2	3	4	5
Date:	6/13/17	6/13/17	6/13/17	6/13/17	6/13/17
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Density:	1 FT2	0 FT2	0 FT2	1 FT2	0 FT2

Application Equipment

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Conducted: Campus C-28

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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 GAL/AC	WATER	30 PSI
B	CUB	3.8 MPH	AIXR	11003	24 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
C	Cub	3.8 MPH	AIXR	11003	26 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

Comments:

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Location: Campus C-28

Investigator: Christy Sprague

Study Director: Burns, Stiles, Powell

Pest Code	ANGR CHEAL AMAPO AMBEL ABUTH						ANGR CHEAL		
Crop Code	ZEAMX						ZEAMX		
Rating Date	6/14/17	6/14/17	6/14/17	6/14/17	6/14/17	6/14/17	6/20/17	6/20/17	6/20/17
Rating Type	injury	control	control	control	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-C	7 DA-C	7 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	*	
1	Degree Extra	4.04 L		3 qt/a		A	0	100	100	100	98	98	0	100	100
	1 Atrazine	90 WG		1.1 lb/a		A									
	1 Roundup PowerMax	4.5 SL		32 fl oz/a		C									
	1 N-Pak AMS liquid	L		2.5 % v/v		C									
2	TripleFLEX II	4.16 L		1 qt/a		A	0	100	100	100	100	100	0	100	100
	2 Atrazine	90 WG		1.1 lb/a		A									
	2 Roundup PowerMax	4.5 SL		32 fl oz/a		C									
	2 N-Pak AMS liquid	L		2.5 % v/v		C									
3	Harness MAX	3.82 L		64 fl oz/a		A	2	100	100	100	100	100	0	100	100
	3 Atrazine	90 WG		1.1 lb/a		A									
	3 Roundup PowerMax	4.5 SL		32 fl oz/a		C									
	3 N-Pak AMS liquid	L		2.5 % v/v		C									
4	Acuron	3.44 L		3 qt/a		A	2	100	100	100	100	100	0	100	100
	4 Roundup PowerMax	4.5 SL		32 fl oz/a		C									
	4 N-Pak AMS liquid	L		2.5 % v/v		C									
5	Corvus	2.63 L		5.6 fl oz/a		A	0	100	100	100	100	100	0	100	100
	5 Atrazine	90 WG		1.1 lb/a		A									
	5 Roundup PowerMax	4.5 SL		32 fl oz/a		C									
	5 N-Pak AMS liquid	L		2.5 % v/v		C									
6	Resicore	3.29 L		2.25 qt/a		A	0	100	100	100	100	100	1	100	100
	6 Atrazine	90 WG		1.1 lb/a		A									
	6 Durango DMA	4 SL		36 fl oz/a		C									
	6 N-Pak AMS liquid	L		2.5 % v/v		C									
7	TripleFLEX II	4.16 L		1 qt/a		B	4	100	100	100	99	100	1	100	100
	7 Atrazine	90 WG		1.1 lb/a		B									
	7 Roundup PowerMax	4.5 SL		32 fl oz/a		B									
	7 N-Pak AMS liquid	L		2.5 % v/v		B									
8	Untreated						0	0	0	0	0	0	0	0	0
9	Harness MAX	3.82 L		40 fl oz/a		B	5	100	100	100	100	100	3	100	100
	9 Atrazine	90 WG		1.1 lb/a		B									
	9 Roundup PowerMax	4.5 SL		27 fl oz/a		B									
	9 N-Pak AMS liquid	L		2.5 % v/v		B									
10	Halex GT	4.389 L		3.6 pt/a		B	2	100	100	100	100	100	0	100	100
	10 Atrazine	90 WG		1.1 lb/a		B									
	10 Surfactant	L		0.25 % v/v		B									
	10 N-Pak AMS liquid	L		2.5 % v/v		B									

* Adjusted means

Could not calculate LSD (% mean diff) for columns 3,4,10,11,15,16,17,19 because error mean square = 0.

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Trial ID: C10-17

Location: Campus C-28

Investigator: Christy Sprague

Study Director: Burns, Stiles, Powell

Pest Code	ANGR CHEAL AMAPO AMBEL ABUTH						ANGR CHEAL		
Crop Code	ZEAMX						ZEAMX		
Rating Date	6/14/17	6/14/17	6/14/17	6/14/17	6/14/17	6/14/17	6/20/17	6/20/17	6/20/17
Rating Type	injury control control control control control						injury control control		
Rating Unit	percent percent percent percent percent percent						percent percent percent		
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-C	7 DA-C	7 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	*	
11	Resicore	3.29	L	1.25	qt/a	B	5	100	100	100	100	100	3	100	100
11	Durango DMA	4	SL	30	fl oz/a	B									
11	Atrazine	90	WG	1.1	lb/a	B									
11	N-Pak AMS liquid		L	2.5	% v/v	B									
12	Realm Q	38.75	WG	4	oz/a	A	0	100	100	100	100	100	0	100	100
12	Atrazine	90	WG	1.1	lb/a	A									
12	Roundup PowerMax	4.5	SL	32	fl oz/a	B									
12	N-Pak AMS liquid		L	2.5	% v/v	B									
13	Harness MAX	3.82	L	64	fl oz/a	A	0	100	100	100	100	100	0	100	100
13	Roundup PowerMax	4.5	SL	32	fl oz/a	B									
13	Atrazine	90	WG	1.1	lb/a	B									
13	N-Pak AMS liquid		L	2.5	% v/v	B									
14	Weed-free						1	100	100	100	99	100	0	100	100
LSD	P=.05						1.3	0.4	.	.	1.3	1.2	0.5	0.4	0.4
Standard Deviation							0.9	0.3	0.0	0.0	0.9	0.8	0.4	0.3	0.3
CV							58.12	0.29	0.0	0.0	1.02	0.88	66.14	0.29	0.29

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Study Director: Burns, Stiles, Powell

Pest Code	AMAPO	AMBEL	ABUTH		ANGR	CHEAL	AMAPO	AMBEL
Crop Code				ZEAMX				
Rating Date	6/20/17	6/20/17	6/20/17	6/26/17	6/26/17	6/26/17	6/26/17	6/26/17
Rating Type	control	control	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-C	7 DA-C	7 DA-C	13 DA-C	13 DA-C	13 DA-C	13 DA-C	13 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*
1	Degree Extra	4.04 L		3 qt/a	A		100	100	100	0	100	100	100
	1 Atrazine	90 WG		1.1 lb/a	A								
	1 Roundup PowerMax	4.5 SL		32 fl oz/a	C								
	1 N-Pak AMS liquid	L		2.5 % v/v	C								
2	TripleFLEX II	4.16 L		1 qt/a	A		100	100	100	0	100	100	100
	2 Atrazine	90 WG		1.1 lb/a	A								
	2 Roundup PowerMax	4.5 SL		32 fl oz/a	C								
	2 N-Pak AMS liquid	L		2.5 % v/v	C								
3	Harness MAX	3.82 L		64 fl oz/a	A		100	100	100	0	100	100	100
	3 Atrazine	90 WG		1.1 lb/a	A								
	3 Roundup PowerMax	4.5 SL		32 fl oz/a	C								
	3 N-Pak AMS liquid	L		2.5 % v/v	C								
4	Acuron	3.44 L		3 qt/a	A		100	100	100	0	100	100	100
	4 Roundup PowerMax	4.5 SL		32 fl oz/a	C								
	4 N-Pak AMS liquid	L		2.5 % v/v	C								
5	Corvus	2.63 L		5.6 fl oz/a	A		100	100	100	0	100	100	100
	5 Atrazine	90 WG		1.1 lb/a	A								
	5 Roundup PowerMax	4.5 SL		32 fl oz/a	C								
	5 N-Pak AMS liquid	L		2.5 % v/v	C								
6	Resicore	3.29 L		2.25 qt/a	A		100	100	100	0	100	100	100
	6 Atrazine	90 WG		1.1 lb/a	A								
	6 Durango DMA	4 SL		36 fl oz/a	C								
	6 N-Pak AMS liquid	L		2.5 % v/v	C								
7	TripleFLEX II	4.16 L		1 qt/a	B		100	100	100	1	100	100	100
	7 Atrazine	90 WG		1.1 lb/a	B								
	7 Roundup PowerMax	4.5 SL		32 fl oz/a	B								
	7 N-Pak AMS liquid	L		2.5 % v/v	B								
8	Untreated						0	0	0	0	0	0	0
9	Harness MAX	3.82 L		40 fl oz/a	B		100	100	99	2	100	100	100
	9 Atrazine	90 WG		1.1 lb/a	B								
	9 Roundup PowerMax	4.5 SL		27 fl oz/a	B								
	9 N-Pak AMS liquid	L		2.5 % v/v	B								
10	Halex GT	4.389 L		3.6 pt/a	B		100	100	100	0	100	100	100
	10 Atrazine	90 WG		1.1 lb/a	B								
	10 Surfactant	L		0.25 % v/v	B								
	10 N-Pak AMS liquid	L		2.5 % v/v	B								

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Pest Code	AMAPO	AMBEL	ABUTH		ANGR	CHEAL	AMAPO	AMBEL
Crop Code				ZEAMX				
Rating Date	6/20/17	6/20/17	6/20/17	6/26/17	6/26/17	6/26/17	6/26/17	6/26/17
Rating Type	control	control	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-C	7 DA-C	7 DA-C	13 DA-C	13 DA-C	13 DA-C	13 DA-C	13 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	
11	Resicore	3.29	L	1.25	qt/a	B	100	100	100	2	100	100	100	
11	Durango DMA	4	SL	30	fl oz/a	B								
11	Atrazine	90	WG	1.1	lb/a	B								
11	N-Pak AMS liquid		L	2.5	% v/v	B								
12	Realm Q	38.75	WG	4	oz/a	A	100	100	100	0	100	100	100	
12	Atrazine	90	WG	1.1	lb/a	A								
12	Roundup PowerMax	4.5	SL	32	fl oz/a	B								
12	N-Pak AMS liquid		L	2.5	% v/v	B								
13	Harness MAX	3.82	L	64	fl oz/a	A	100	100	100	0	100	100	100	
13	Roundup PowerMax	4.5	SL	32	fl oz/a	B								
13	Atrazine	90	WG	1.1	lb/a	B								
13	N-Pak AMS liquid		L	2.5	% v/v	B								
14	Weed-free						100	100	100	0	100	100	100	
LSD P=.05							.	.	0.6	0.4	0.4	.	.	
Standard Deviation							0.0	0.0	0.4	0.3	0.3	0.0	0.0	0.0
CV							0.0	0.0	0.43	89.99	0.29	0.0	0.0	0.0

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Study Director: Burns, Stiles, Powell

Pest Code	ABUTH	ANGR	CHEAL	AMAPO	AMBEL	ABUTH		
Crop Code	ZEAMX							ZEAMX
Rating Date	6/26/17	7/11/17	7/11/17	7/11/17	7/11/17	7/11/17	7/11/17	10/17/17
Rating Type	control	injury	control	control	control	control	control	test wieght
Rating Unit	percent	percent	percent	percent	percent	percent	percent	lbs/bu
Trt-Eval Interval	13 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C	155 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*
1	Degree Extra	4.04 L		3 qt/a	A		100	0	100	100	100	100	98
	1 Atrazine	90 WG		1.1 lb/a	A								
	1 Roundup PowerMax	4.5 SL		32 fl oz/a	C								
	1 N-Pak AMS liquid	L		2.5 % v/v	C								
2	TripleFLEX II	4.16 L		1 qt/a	A		100	0	100	100	100	99	100
	2 Atrazine	90 WG		1.1 lb/a	A								
	2 Roundup PowerMax	4.5 SL		32 fl oz/a	C								
	2 N-Pak AMS liquid	L		2.5 % v/v	C								
3	Harness MAX	3.82 L		64 fl oz/a	A		100	0	100	100	100	100	100
	3 Atrazine	90 WG		1.1 lb/a	A								
	3 Roundup PowerMax	4.5 SL		32 fl oz/a	C								
	3 N-Pak AMS liquid	L		2.5 % v/v	C								
4	Acuron	3.44 L		3 qt/a	A		100	0	100	100	100	100	100
	4 Roundup PowerMax	4.5 SL		32 fl oz/a	C								
	4 N-Pak AMS liquid	L		2.5 % v/v	C								
5	Corvus	2.63 L		5.6 fl oz/a	A		100	0	100	100	100	100	100
	5 Atrazine	90 WG		1.1 lb/a	A								
	5 Roundup PowerMax	4.5 SL		32 fl oz/a	C								
	5 N-Pak AMS liquid	L		2.5 % v/v	C								
6	Resicore	3.29 L		2.25 qt/a	A		100	0	100	100	100	100	100
	6 Atrazine	90 WG		1.1 lb/a	A								
	6 Durango DMA	4 SL		36 fl oz/a	C								
	6 N-Pak AMS liquid	L		2.5 % v/v	C								
7	TripleFLEX II	4.16 L		1 qt/a	B		100	0	99	100	100	99	100
	7 Atrazine	90 WG		1.1 lb/a	B								
	7 Roundup PowerMax	4.5 SL		32 fl oz/a	B								
	7 N-Pak AMS liquid	L		2.5 % v/v	B								
8	Untreated						0	0	0	0	0	0	0
9	Harness MAX	3.82 L		40 fl oz/a	B		100	0	100	100	100	100	100
	9 Atrazine	90 WG		1.1 lb/a	B								
	9 Roundup PowerMax	4.5 SL		27 fl oz/a	B								
	9 N-Pak AMS liquid	L		2.5 % v/v	B								
10	Halex GT	4.389 L		3.6 pt/a	B		100	0	100	100	100	100	100
	10 Atrazine	90 WG		1.1 lb/a	B								
	10 Surfactant	L		0.25 % v/v	B								
	10 N-Pak AMS liquid	L		2.5 % v/v	B								

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Location: Campus C-28

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Study Director: Burns, Stiles, Powell

Pest Code	ABUTH	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	
Crop Code	ZEAMX						ZEAMX
Rating Date	6/26/17	7/11/17	7/11/17	7/11/17	7/11/17	7/11/17	10/17/17
Rating Type	control	injury	control	control	control	control	test wieght
Rating Unit	percent	percent	percent	percent	percent	percent	lbs/bu
Trt-Eval Interval	13 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C	155 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	
11	Resicore	3.29	L	1.25	qt/a	B	100	0	100	100	100	100	53.7	
11	Durango DMA	4	SL	30	fl oz/a	B								
11	Atrazine	90	WG	1.1	lb/a	B								
11	N-Pak AMS liquid		L	2.5	% v/v	B								
12	Realm Q	38.75	WG	4	oz/a	A	100	0	99	100	100	100	53.7	
12	Atrazine	90	WG	1.1	lb/a	A								
12	Roundup PowerMax	4.5	SL	32	fl oz/a	B								
12	N-Pak AMS liquid		L	2.5	% v/v	B								
13	Harness MAX	3.82	L	64	fl oz/a	A	100	0	100	100	100	100	53.5	
13	Roundup PowerMax	4.5	SL	32	fl oz/a	B								
13	Atrazine	90	WG	1.1	lb/a	B								
13	N-Pak AMS liquid		L	2.5	% v/v	B								
14	Weed-free						99	0	98	96	99	100	97	53.5
	LSD P=.05						1.0	.	2.3	0.7	1.0	1.3	2.0	1.02
	Standard Deviation						0.7	0.0	1.6	0.5	0.7	0.9	1.4	0.71
	CV						0.78	0.0	1.75	0.51	0.72	0.99	1.54	1.32

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Location: Campus C-28

Investigator: Christy Sprague

Study Director: Burns, Stiles, Powell

Pest Code						
Crop Code					ZEAMX	ZEAMX
Rating Date					10/17/17	10/17/17
Rating Type					moisture	YIELD
Rating Unit					percent	BU
Trt-Eval Interval					155 DA-A at 15% M	

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Appl Code	*	*
1	Degree Extra	4.04 L		3 qt/a		A	18.2	204
1	Atrazine	90 WG		1.1 lb/a		A		
1	Roundup PowerMax	4.5 SL		32 fl oz/a		C		
1	N-Pak AMS liquid	L		2.5 % v/v		C		
2	TripleFLEX II	4.16 L		1 qt/a		A	18.4	220
2	Atrazine	90 WG		1.1 lb/a		A		
2	Roundup PowerMax	4.5 SL		32 fl oz/a		C		
2	N-Pak AMS liquid	L		2.5 % v/v		C		
3	Harness MAX	3.82 L		64 fl oz/a		A	21.0	218
3	Atrazine	90 WG		1.1 lb/a		A		
3	Roundup PowerMax	4.5 SL		32 fl oz/a		C		
3	N-Pak AMS liquid	L		2.5 % v/v		C		
4	Acuron	3.44 L		3 qt/a		A	18.9	198
4	Roundup PowerMax	4.5 SL		32 fl oz/a		C		
4	N-Pak AMS liquid	L		2.5 % v/v		C		
5	Corvus	2.63 L		5.6 fl oz/a		A	19.5	211
5	Atrazine	90 WG		1.1 lb/a		A		
5	Roundup PowerMax	4.5 SL		32 fl oz/a		C		
5	N-Pak AMS liquid	L		2.5 % v/v		C		
6	Resicore	3.29 L		2.25 qt/a		A	17.8	179
6	Atrazine	90 WG		1.1 lb/a		A		
6	Durango DMA	4 SL		36 fl oz/a		C		
6	N-Pak AMS liquid	L		2.5 % v/v		C		
7	TripleFLEX II	4.16 L		1 qt/a		B	18.8	203
7	Atrazine	90 WG		1.1 lb/a		B		
7	Roundup PowerMax	4.5 SL		32 fl oz/a		B		
7	N-Pak AMS liquid	L		2.5 % v/v		B		
8	Untreated						17.4	183
9	Harness MAX	3.82 L		40 fl oz/a		B	19.3	223
9	Atrazine	90 WG		1.1 lb/a		B		
9	Roundup PowerMax	4.5 SL		27 fl oz/a		B		
9	N-Pak AMS liquid	L		2.5 % v/v		B		
10	Halex GT	4.389 L		3.6 pt/a		B	18.0	210
10	Atrazine	90 WG		1.1 lb/a		B		
10	Surfactant	L		0.25 % v/v		B		
10	N-Pak AMS liquid	L		2.5 % v/v		B		

* Adjusted means

Could not calculate LSD (% mean diff) for columns 3,4,10,11,15,16,17,19 because error mean square = 0.

Comparison of various weed control systems in corn

Trial ID: C10-17

Location: Campus C-28

Investigator: Christy Sprague

Study Director: Burns, Stiles, Powell

Pest Code						
Crop Code					ZEAMX	ZEAMX
Rating Date					10/17/17	10/17/17
Rating Type					moisture	YIELD
Rating Unit					percent	BU
Trt-Eval Interval					155 DA-A at 15% M	

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*
11	Resicore	3.29	L	1.25	qt/a	B	18.6	218
11	Durango DMA	4	SL	30	fl oz/a	B		
11	Atrazine	90	WG	1.1	lb/a	B		
11	N-Pak AMS liquid		L	2.5	% v/v	B		
12	Realm Q	38.75	WG	4	oz/a	A	19.6	212
12	Atrazine	90	WG	1.1	lb/a	A		
12	Roundup PowerMax	4.5	SL	32	fl oz/a	B		
12	N-Pak AMS liquid		L	2.5	% v/v	B		
13	Harness MAX	3.82	L	64	fl oz/a	A	19.2	203
13	Roundup PowerMax	4.5	SL	32	fl oz/a	B		
13	Atrazine	90	WG	1.1	lb/a	B		
13	N-Pak AMS liquid		L	2.5	% v/v	B		
14	Weed-free						19.3	199
LSD P=.05							3.22	33.5
Standard Deviation							2.25	23.4
CV							11.94	11.39

* Adjusted means

Could not calculate LSD (% mean diff) for columns 3,4,10,11,15,16,17,19 because error mean square = 0.