

Comparison of two pass weed control systems in corn

Trial ID: C08-17 Study Dir.: Burns, Stiles, Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Planting Date: 5/15/17 **Row Spacing:** 30 IN
Variety: P9807AM **No. of Reps:** 4
Population: 33500 seeds/A **% OM:** 2.9
Soil Type: SL sandy loam **pH:** 5.9
Plot Size: 15 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plowed; spring soil finished twice
Fertilizer: 300lbs/A urea incorporated
 150 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	lambsquarters, common	Chenopodium album
3	AMBEL	ragweed, common	Ambrosia artemisiifolia
4	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	ZEAMX	Corn	

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	5/15/17	6/13/17
Time Treated:	8:20 PM	3:00 PM
% Cloud Cover:	50	40
Air Temp., Unit:	69 F	89 F
% Relative Humidity:	33	44
Wind Speed/Unit/Dir:	3 mph SSE	3 mph N
Soil Temp, Unit:	69 F	89 F
Leaf Moist/Dew Presence (Y/N):	5	5
Soil Moist:	3	5

Crop Stage at Each Application

	A	B
Crop 1 Name:	ZEAMX	ZEAMX
Height:		12-16 " (14)
Stage:		V4-V5

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height:		10 "
Stage:		4-5L
Weed 2 Name:	CHEAL	CHEAL
Height:		2-3 " (2.5)
Stage:		6-10L
Weed 3 Name:	AMBEL	AMBEL
Height:		3-4 " (3.5)
Stage:		8-10L
Weed 4 Name:	ABUTH	ABUTH
Height:		3-5 " (4)
Stage:		4-5L

Weed Density

	1	2	3	4
Date:	6/13/17	6/13/17	6/13/17	6/13/17
Weed Name:	ANGR	CHEAL	AMBEL	ABUTH
Density:	3 FT2	8 FT2	6 FT2	1 FT2

Application Equipment

Appl	Sprayer	Ground	Nozzle	Nozzle	Nozzle	Nozzle	Boom	Spray	Carrier	Operation
	Type	Speed	Type	Size	Height	Spacing	Width	Volume		Pressure
A	Cub	3.8 MPH	AIXR	11003	22 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
B	Cub	3.8 MPH	AIXR	11003	23 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

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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	6/13/17	6/13/17	6/13/17	6/13/17	6/13/17	6/20/17	6/20/17
Rating Type	injury	control	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A	7 DA-B	7 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	*	*	*	*	*	*	*	*	*
1	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	0	100	100	100	95	100	0	100	100
1	Roundup PowerMax	4.5 SL		32 fl oz/a	B									
1	N-Pak AMS Liquid	L		2.5 % v/v	B									
2	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	0	100	100	100	95	98	0	100	100
2	ImpactZ	4.26 L		8 fl oz/a	B									
2	MSO	L		1 % v/v	B									
2	N-Pak AMS Liquid	L		2.5 % v/v	B									
3	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	0	100	100	100	95	98	1	100	100
3	ImpactZ	4.26 L		8 fl oz/a	B									
3	Roundup PowerMax	4.5 SL		32 fl oz/a	B									
3	MSO	L		0.5 % v/v	B									
3	N-Pak AMS Liquid	L		2.5 % v/v	B									
4	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	0	100	100	100	98	100	0	100	100
4	ImpactZ	4.26 L		8 fl oz/a	B									
4	Liberty	2.34 L		22 fl oz/a	B									
4	N-Pak AMS Liquid	L		2.5 % v/v	B									
5	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	0	100	100	100	97	98	2	100	100
5	ImpactZ	4.26 L		8 fl oz/a	B									
5	Status	56 WG		5 oz/a	B									
5	MSO	L		1 % v/v	B									
5	N-Pak AMS Liquid	L		2.5 % v/v	B									
6	Degree Extra	4 L		2 qt/a	A	0	98	99	100	81	95	0	100	100
6	Liberty	2.34 L		32 fl oz/a	B									
6	N-Pak AMS Liquid	L		2.5 % v/v	B									
7	Degree Extra	4 L		2 qt/a	A	0	99	98	99	73	95	0	100	100
7	Liberty	2.34 L		32 fl oz/a	B									
7	Laudis	3.5 L		3 fl oz/a	B									
7	N-Pak AMS liquid	L		2.5 % v/v	B									
8	Degree Extra	4 L		3 qt/a	A	0	100	99	100	91	96	0	100	100
8	DiFlex Duo	2.13 L		32 fl oz/a	B									
8	MSO	L		1 % v/v	B									
8	N-Pak AMS liquid	L		2.5 % v/v	B									
9	Untreated					0	0	0	0	0	0	0	0	0

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Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	ANGR	CHEAL
Crop Code	ZEAMX			ZEAMX			
Rating Date	6/13/17	6/13/17	6/13/17	6/13/17	6/13/17	6/20/17	6/20/17
Rating Type	injury	control	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A	7 DA-B	7 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	*
10	Anthem MAXX	4.3 L		4 fl oz/a	A	A	0	94	100	100	93	100	1	100
10	Atrazine	90 WG		1.1 lb/a	A	A								
10	Solstice	4 L		2.5 fl oz/a	B	B								
10	Atrazine	90 WG		0.56 lb/a	B	B								
10	Roundup PowerMax	4.5 SL		22 fl oz/a	B	B								
10	Crop oil concentrate	L		1 % v/v	B	B								
10	N-Pak AMS Liquid	L		2.5 % v/v	B	B								
11	Anthem MAXX	4.3 L		4 fl oz/a	A	A	0	98	100	100	100	100	1	100
11	Atrazine	90 WG		1.1 lb/a	A	A								
11	Callisto	4 L		4 fl oz/a	A	A								
11	Atrazine	90 WG		0.56 lb/a	B	B								
11	Solstice	4 L		2.5 fl oz/a	B	B								
11	Roundup PowerMax	4.5 SL		22 fl oz/a	B	B								
11	Crop oil concentrate	L		1 % v/v	B	B								
11	N-Pak AMS Liquid	L		2.5 % v/v	B	B								
12	Anthem MAXX	4.3 L		4 fl oz/a	A	A	0	99	100	100	99	100	1	100
12	Atrazine	90 WG		1.1 lb/a	A	A								
12	Balance Flexx	2 L		3 fl oz/a	A	A								
12	Atrazine	90 WG		0.56 lb/a	B	B								
12	Solstice	4 L		2.5 fl oz/a	B	B								
12	Roundup PowerMax	4.5 SL		22 fl oz/a	B	B								
12	Crop oil concentrate	L		1 % v/v	B	B								
12	N-Pak AMS Liquid	L		2.5 % v/v	B	B								
13	Anthem MAXX	4.3 L		4 fl oz/a	A	A	0	93	100	100	100	100	1	100
13	Hornet WDG	68.5 WG		4 oz/a	A	A								
13	Solstice	4 L		2.5 fl oz/a	B	B								
13	Atrazine	90 WG		0.56 lb/a	B	B								
13	Roundup PowerMax	4.5 SL		22 fl oz/a	B	B								
13	Crop oil concentrate	L		1 % v/v	B	B								
13	N-Pak AMS Liquid	L		2.5 % v/v	B	B								
14	Balance Flexx	2 L		4 fl oz/a	A	A	0	93	100	100	100	100	0	100
14	Atrazine	90 WG		1.65 lb/a	A	A								
14	Liberty	2.34 L		32 fl oz/a	B	B								
14	DiFlexx	4 L		8 fl oz/a	B	B								
14	N-Pak AMS liquid	L		2.5 % v/v	B	B								
15	Corvus	2.63 L		3.5 fl oz/a	A	A	2	95	100	100	99	100	1	100
15	Atrazine	90 WG		1.65 lb/a	A	A								
15	DiFlexx	4 L		8 fl oz/a	B	B								
15	Roundup PowerMax	4.5 SL		32 fl oz/a	B	B								
15	N-Pak AMS liquid	L		2.5 % v/v	B	B								

* Adjusted means

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Study Director: Burns, Stiles, Powell

Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH		ANGR	CHEAL	
Crop Code		ZEAMX					ZEAMX			
Rating Date		6/13/17	6/13/17	6/13/17	6/13/17	6/13/17	6/13/17	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		29 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A	7 DA-B	7 DA-B	7 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	*	
16	Corvus	2.63	L	3.5	fl oz/a	A	1	99	100	100	100	100	2	100	100
16	Atrazine	90	WG	1.65	lb/a	A									
16	Liberty	2.34	L	32	fl oz/a	B									
16	DiFlexx	4	L	6	fl oz/a	B									
16	N-Pak AMS liquid		L	2.5	% v/v	B									
17	Corvus	2.63	L	3.5	fl oz/a	A	1	95	100	100	98	100	1	100	100
17	Atrazine	90	WG	1.65	lb/a	A									
17	Roundup PowerMax	4.5	SL	22	fl oz/a	B									
17	DiFlexx Duo	2.13	L	24	fl oz/a	B									
17	N-Pak AMS liquid		L	2.5	% v/v	B									
	LSD P=.05						0.7	5.8	1.1	0.9	5.0	2.5	1.1	0.5	.
	Standard Deviation						0.5	4.1	0.8	0.6	3.5	1.8	0.8	0.3	0.0
	CV						200.73	4.45	0.85	0.66	3.98	1.91	129.62	0.37	0.0

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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-B	7 DA-B	7 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	*	*	*	*	*	*	*	*
1	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	100	100	100	0	100	100	100	100
1	Roundup PowerMax	4.5 SL		32 fl oz/a	B								
1	N-Pak AMS Liquid	L		2.5 % v/v	B								
2	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	100	100	100	1	100	100	100	100
2	ImpactZ	4.26 L		8 fl oz/a	B								
2	MSO	L		1 % v/v	B								
2	N-Pak AMS Liquid	L		2.5 % v/v	B								
3	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	100	100	100	1	100	100	100	100
3	ImpactZ	4.26 L		8 fl oz/a	B								
3	Roundup PowerMax	4.5 SL		32 fl oz/a	B								
3	MSO	L		0.5 % v/v	B								
3	N-Pak AMS Liquid	L		2.5 % v/v	B								
4	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	100	100	100	0	100	100	100	100
4	ImpactZ	4.26 L		8 fl oz/a	B								
4	Liberty	2.34 L		22 fl oz/a	B								
4	N-Pak AMS Liquid	L		2.5 % v/v	B								
5	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	100	100	100	2	100	100	100	100
5	ImpactZ	4.26 L		8 fl oz/a	B								
5	Status	56 WG		5 oz/a	B								
5	MSO	L		1 % v/v	B								
5	N-Pak AMS Liquid	L		2.5 % v/v	B								
6	Degree Extra	4 L		2 qt/a	A	100	100	100	0	100	100	100	100
6	Liberty	2.34 L		32 fl oz/a	B								
6	N-Pak AMS Liquid	L		2.5 % v/v	B								
7	Degree Extra	4 L		2 qt/a	A	100	100	100	0	100	100	100	100
7	Liberty	2.34 L		32 fl oz/a	B								
7	Laudis	3.5 L		3 fl oz/a	B								
7	N-Pak AMS liquid	L		2.5 % v/v	B								
8	Degree Extra	4 L		3 qt/a	A	100	99	100	0	100	100	100	100
8	DiFlex Duo	2.13 L		32 fl oz/a	B								
8	MSO	L		1 % v/v	B								
8	N-Pak AMS liquid	L		2.5 % v/v	B								
9	Untreated					0	0	0	0	0	0	0	0

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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-B	7 DA-B	7 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	*	*	*	*	*	*	*
10	Anthem MAXX	4.3 L		4 fl oz/a	A	100	100	100	1	100	100	100
10	Atrazine	90 WG		1.1 lb/a	A							
10	Solstice	4 L		2.5 fl oz/a	B							
10	Atrazine	90 WG		0.56 lb/a	B							
10	Roundup PowerMax	4.5 SL		22 fl oz/a	B							
10	Crop oil concentrate	L		1 % v/v	B							
10	N-Pak AMS Liquid	L		2.5 % v/v	B							
11	Anthem MAXX	4.3 L		4 fl oz/a	A	100	100	100	1	100	100	100
11	Atrazine	90 WG		1.1 lb/a	A							
11	Callisto	4 L		4 fl oz/a	A							
11	Atrazine	90 WG		0.56 lb/a	B							
11	Solstice	4 L		2.5 fl oz/a	B							
11	Roundup PowerMax	4.5 SL		22 fl oz/a	B							
11	Crop oil concentrate	L		1 % v/v	B							
11	N-Pak AMS Liquid	L		2.5 % v/v	B							
12	Anthem MAXX	4.3 L		4 fl oz/a	A	100	100	100	1	100	100	100
12	Atrazine	90 WG		1.1 lb/a	A							
12	Balance Flexx	2 L		3 fl oz/a	A							
12	Atrazine	90 WG		0.56 lb/a	B							
12	Solstice	4 L		2.5 fl oz/a	B							
12	Roundup PowerMax	4.5 SL		22 fl oz/a	B							
12	Crop oil concentrate	L		1 % v/v	B							
12	N-Pak AMS Liquid	L		2.5 % v/v	B							
13	Anthem MAXX	4.3 L		4 fl oz/a	A	100	100	100	1	100	100	100
13	Hornet WDG	68.5 WG		4 oz/a	A							
13	Solstice	4 L		2.5 fl oz/a	B							
13	Atrazine	90 WG		0.56 lb/a	B							
13	Roundup PowerMax	4.5 SL		22 fl oz/a	B							
13	Crop oil concentrate	L		1 % v/v	B							
13	N-Pak AMS Liquid	L		2.5 % v/v	B							
14	Balance Flexx	2 L		4 fl oz/a	A	100	100	100	0	100	100	100
14	Atrazine	90 WG		1.65 lb/a	A							
14	Liberty	2.34 L		32 fl oz/a	B							
14	DiFlexx	4 L		8 fl oz/a	B							
14	N-Pak AMS liquid	L		2.5 % v/v	B							
15	Corvus	2.63 L		3.5 fl oz/a	A	100	100	100	0	100	100	100
15	Atrazine	90 WG		1.65 lb/a	A							
15	DiFlexx	4 L		8 fl oz/a	B							
15	Roundup PowerMax	4.5 SL		32 fl oz/a	B							
15	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-B	7 DA-B	7 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*
16	Corvus	2.63 L	L	3.5 fl oz/a	A	A	100	100	100	0	99	100	100
16	Atrazine	90 WG	WG	1.65 lb/a	A	A							
16	Liberty	2.34 L	L	32 fl oz/a	B	B							
16	DiFlexx	4 L	L	6 fl oz/a	B	B							
16	N-Pak AMS liquid	L	L	2.5 % v/v	B	B							
17	Corvus	2.63 L	L	3.5 fl oz/a	A	A	100	100	100	0	100	100	100
17	Atrazine	90 WG	WG	1.65 lb/a	A	A							
17	Roundup PowerMax	4.5 SL	SL	22 fl oz/a	B	B							
17	DiFlexx Duo	2.13 L	L	24 fl oz/a	B	B							
17	N-Pak AMS liquid	L	L	2.5 % v/v	B	B							
	LSD P=.05						0.3	0.4	0.3	0.6	1.1	.	0.5
	Standard Deviation						0.2	0.3	0.2	0.4	0.8	0.0	0.3
	CV						0.26	0.3	0.26	96.93	0.83	0.0	0.37

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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	7/24/17
Rating Type	control	injury	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	13 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	41 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	*	*	*	*	*	*	*	*
1	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	100	0	100	99	99	99	100	0
1	Roundup PowerMax	4.5 SL		32 fl oz/a	B								
1	N-Pak AMS Liquid	L		2.5 % v/v	B								
2	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	100	0	100	100	100	100	99	0
2	ImpactZ	4.26 L		8 fl oz/a	B								
2	MSO	L		1 % v/v	B								
2	N-Pak AMS Liquid	L		2.5 % v/v	B								
3	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	100	0	100	100	100	98	99	0
3	ImpactZ	4.26 L		8 fl oz/a	B								
3	Roundup PowerMax	4.5 SL		32 fl oz/a	B								
3	MSO	L		0.5 % v/v	B								
3	N-Pak AMS Liquid	L		2.5 % v/v	B								
4	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	99	0	100	100	100	98	100	0
4	ImpactZ	4.26 L		8 fl oz/a	B								
4	Liberty	2.34 L		22 fl oz/a	B								
4	N-Pak AMS Liquid	L		2.5 % v/v	B								
5	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	100	0	100	100	100	100	100	0
5	ImpactZ	4.26 L		8 fl oz/a	B								
5	Status	56 WG		5 oz/a	B								
5	MSO	L		1 % v/v	B								
5	N-Pak AMS Liquid	L		2.5 % v/v	B								
6	Degree Extra	4 L		2 qt/a	A	99	0	100	100	100	98	98	0
6	Liberty	2.34 L		32 fl oz/a	B								
6	N-Pak AMS Liquid	L		2.5 % v/v	B								
7	Degree Extra	4 L		2 qt/a	A	99	0	100	100	100	99	99	0
7	Liberty	2.34 L		32 fl oz/a	B								
7	Laudis	3.5 L		3 fl oz/a	B								
7	N-Pak AMS liquid	L		2.5 % v/v	B								
8	Degree Extra	4 L		3 qt/a	A	100	0	100	100	100	100	100	0
8	DiFlex Duo	2.13 L		32 fl oz/a	B								
8	MSO	L		1 % v/v	B								
8	N-Pak AMS liquid	L		2.5 % v/v	B								
9	Untreated					0	0	0	0	0	0	0	0

* Adjusted means

Could not calculate LSD (% mean diff) for columns 9,15,17,19,25,28 because error mean square = 0.

Comparison of two pass weed control systems in corn

Trial ID: C08-17

Location: Campus C-28

Investigator: Christy Sprague

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	7/24/17
Rating Type	control	injury	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	13 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	41 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*
10	Anthem MAXX	4.3 L		4 fl oz/a	A		100	0	100	100	100	100	0
10	Atrazine	90 WG		1.1 lb/a	A								
10	Solstice	4 L		2.5 fl oz/a	B								
10	Atrazine	90 WG		0.56 lb/a	B								
10	Roundup PowerMax	4.5 SL		22 fl oz/a	B								
10	Crop oil concentrate	L		1 % v/v	B								
10	N-Pak AMS Liquid	L		2.5 % v/v	B								
11	Anthem MAXX	4.3 L		4 fl oz/a	A		100	0	100	100	100	100	0
11	Atrazine	90 WG		1.1 lb/a	A								
11	Callisto	4 L		4 fl oz/a	A								
11	Atrazine	90 WG		0.56 lb/a	B								
11	Solstice	4 L		2.5 fl oz/a	B								
11	Roundup PowerMax	4.5 SL		22 fl oz/a	B								
11	Crop oil concentrate	L		1 % v/v	B								
11	N-Pak AMS Liquid	L		2.5 % v/v	B								
12	Anthem MAXX	4.3 L		4 fl oz/a	A		100	0	99	100	100	100	0
12	Atrazine	90 WG		1.1 lb/a	A								
12	Balance Flexx	2 L		3 fl oz/a	A								
12	Atrazine	90 WG		0.56 lb/a	B								
12	Solstice	4 L		2.5 fl oz/a	B								
12	Roundup PowerMax	4.5 SL		22 fl oz/a	B								
12	Crop oil concentrate	L		1 % v/v	B								
12	N-Pak AMS Liquid	L		2.5 % v/v	B								
13	Anthem MAXX	4.3 L		4 fl oz/a	A		99	0	100	100	100	100	0
13	Hornet WDG	68.5 WG		4 oz/a	A								
13	Solstice	4 L		2.5 fl oz/a	B								
13	Atrazine	90 WG		0.56 lb/a	B								
13	Roundup PowerMax	4.5 SL		22 fl oz/a	B								
13	Crop oil concentrate	L		1 % v/v	B								
13	N-Pak AMS Liquid	L		2.5 % v/v	B								
14	Balance Flexx	2 L		4 fl oz/a	A		100	0	96	97	100	100	0
14	Atrazine	90 WG		1.65 lb/a	A								
14	Liberty	2.34 L		32 fl oz/a	B								
14	DiFlexx	4 L		8 fl oz/a	B								
14	N-Pak AMS liquid	L		2.5 % v/v	B								
15	Corvus	2.63 L		3.5 fl oz/a	A		99	0	93	97	100	100	0
15	Atrazine	90 WG		1.65 lb/a	A								
15	DiFlexx	4 L		8 fl oz/a	B								
15	Roundup PowerMax	4.5 SL		32 fl oz/a	B								
15	N-Pak AMS liquid	L		2.5 % v/v	B								

* Adjusted means

Could not calculate LSD (% mean diff) for columns 9,15,17,19,25,28 because error mean square = 0.

Comparison of two pass weed control systems in corn

Trial ID: C08-17

Location: Campus C-28

Investigator: Christy Sprague

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	7/24/17
Rating Type	control	injury	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	13 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	41 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*
16	Corvus	2.63	L	3.5	fl oz/a	A	100	0	98	100	100	100	0
16	Atrazine	90	WG	1.65	lb/a	A							
16	Liberty	2.34	L	32	fl oz/a	B							
16	DiFlexx	4	L	6	fl oz/a	B							
16	N-Pak AMS liquid		L	2.5	% v/v	B							
17	Corvus	2.63	L	3.5	fl oz/a	A	100	0	97	98	100	100	0
17	Atrazine	90	WG	1.65	lb/a	A							
17	Roundup PowerMax	4.5	SL	22	fl oz/a	B							
17	DiFlexx Duo	2.13	L	24	fl oz/a	B							
17	N-Pak AMS liquid		L	2.5	% v/v	B							
	LSD P=.05						0.9	.	3.1	2.9	1.0	1.8	1.2
	Standard Deviation						0.7	0.0	2.2	2.1	0.7	1.3	0.9
	CV						0.71	0.0	2.34	2.21	0.73	1.36	0.93

* Adjusted means

Could not calculate LSD (% mean diff) for columns 9,15,17,19,25,28 because error mean square = 0.

Comparison of two pass weed control systems in corn

Trial ID: C08-17

Location: Campus C-28

Investigator: Christy Sprague

Study Director: Burns, Stiles, Powell

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH			
Crop Code						ZEAMX	ZEAMX	ZEAMX
Rating Date	7/24/17	7/24/17	7/24/17	7/24/17	7/24/17	10/17/17	10/17/17	10/17/17
Rating Type	control	control	control	control	control	test wieght	moisture	YIELD
Rating Unit	percent	percent	percent	percent	percent	lbs/bu	percent	BU
Trt-Eval Interval	41 DA-B	41 DA-B	41 DA-B	41 DA-B	41 DA-B	155 DA-A	155 DA-A	at 15% M

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	*	*	*	*	*	*	*	*
1	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	100	98	100	100	100	54.7	18.4	217
1	Roundup PowerMax	4.5 SL		32 fl oz/a	B								
1	N-Pak AMS Liquid	L		2.5 % v/v	B								
2	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	99	100	100	100	100	54.3	18.4	223
2	ImpactZ	4.26 L		8 fl oz/a	B								
2	MSO	L		1 % v/v	B								
2	N-Pak AMS Liquid	L		2.5 % v/v	B								
3	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	99	100	100	97	100	54.3	19.6	213
3	ImpactZ	4.26 L		8 fl oz/a	B								
3	Roundup PowerMax	4.5 SL		32 fl oz/a	B								
3	MSO	L		0.5 % v/v	B								
3	N-Pak AMS Liquid	L		2.5 % v/v	B								
4	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	100	100	100	100	100	54.3	19.1	209
4	ImpactZ	4.26 L		8 fl oz/a	B								
4	Liberty	2.34 L		22 fl oz/a	B								
4	N-Pak AMS Liquid	L		2.5 % v/v	B								
5	Harness Xtra 5.6	5.6 L		3.6 pt/a	A	100	100	100	100	100	54.9	19.6	206
5	ImpactZ	4.26 L		8 fl oz/a	B								
5	Status	56 WG		5 oz/a	B								
5	MSO	L		1 % v/v	B								
5	N-Pak AMS Liquid	L		2.5 % v/v	B								
6	Degree Extra	4 L		2 qt/a	A	100	99	100	100	96	54.0	19.5	225
6	Liberty	2.34 L		32 fl oz/a	B								
6	N-Pak AMS Liquid	L		2.5 % v/v	B								
7	Degree Extra	4 L		2 qt/a	A	100	100	100	100	100	55.1	17.9	204
7	Liberty	2.34 L		32 fl oz/a	B								
7	Laudis	3.5 L		3 fl oz/a	B								
7	N-Pak AMS liquid	L		2.5 % v/v	B								
8	Degree Extra	4 L		3 qt/a	A	99	100	100	100	100	54.8	18.7	206
8	DiFlex Duo	2.13 L		32 fl oz/a	B								
8	MSO	L		1 % v/v	B								
8	N-Pak AMS liquid	L		2.5 % v/v	B								
9	Untreated					0	0	0	0	0	54.4	18.3	101

* Adjusted means

Could not calculate LSD (% mean diff) for columns 9,15,17,19,25,28 because error mean square = 0.

Comparison of two pass weed control systems in corn

Trial ID: C08-17

Location: Campus C-28

Investigator: Christy Sprague

Study Director: Burns, Stiles, Powell

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH			
Crop Code						ZEAMX	ZEAMX	ZEAMX
Rating Date	7/24/17	7/24/17	7/24/17	7/24/17	7/24/17	10/17/17	10/17/17	10/17/17
Rating Type	control	control	control	control	control	test wieght	moisture	YIELD
Rating Unit	percent	percent	percent	percent	percent	lbs/bu	percent	BU
Trt-Eval Interval	41 DA-B	41 DA-B	41 DA-B	41 DA-B	41 DA-B	155 DA-A	155 DA-A	at 15% M

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Code	*	*	*	*	*	*	*	*
10	Anthem MAXX	4.3 L	L	4 fl oz/a	A	100	100	100	100	100	54.9	18.3	216
10	Atrazine	90 WG	WG	1.1 lb/a	A								
10	Solstice	4 L	L	2.5 fl oz/a	B								
10	Atrazine	90 WG	WG	0.56 lb/a	B								
10	Roundup PowerMax	4.5 SL	SL	22 fl oz/a	B								
10	Crop oil concentrate	L	L	1 % v/v	B								
10	N-Pak AMS Liquid	L	L	2.5 % v/v	B								
11	Anthem MAXX	4.3 L	L	4 fl oz/a	A	100	100	100	100	100	54.5	19.1	213
11	Atrazine	90 WG	WG	1.1 lb/a	A								
11	Callisto	4 L	L	4 fl oz/a	A								
11	Atrazine	90 WG	WG	0.56 lb/a	B								
11	Solstice	4 L	L	2.5 fl oz/a	B								
11	Roundup PowerMax	4.5 SL	SL	22 fl oz/a	B								
11	Crop oil concentrate	L	L	1 % v/v	B								
11	N-Pak AMS Liquid	L	L	2.5 % v/v	B								
12	Anthem MAXX	4.3 L	L	4 fl oz/a	A	100	100	100	100	99	54.4	20.1	216
12	Atrazine	90 WG	WG	1.1 lb/a	A								
12	Balance Flexx	2 L	L	3 fl oz/a	A								
12	Atrazine	90 WG	WG	0.56 lb/a	B								
12	Solstice	4 L	L	2.5 fl oz/a	B								
12	Roundup PowerMax	4.5 SL	SL	22 fl oz/a	B								
12	Crop oil concentrate	L	L	1 % v/v	B								
12	N-Pak AMS Liquid	L	L	2.5 % v/v	B								
13	Anthem MAXX	4.3 L	L	4 fl oz/a	A	99	100	100	100	100	54.4	20.4	218
13	Hornet WDG	68.5 WG	WG	4 oz/a	A								
13	Solstice	4 L	L	2.5 fl oz/a	B								
13	Atrazine	90 WG	WG	0.56 lb/a	B								
13	Roundup PowerMax	4.5 SL	SL	22 fl oz/a	B								
13	Crop oil concentrate	L	L	1 % v/v	B								
13	N-Pak AMS Liquid	L	L	2.5 % v/v	B								
14	Balance Flexx	2 L	L	4 fl oz/a	A	95	100	100	100	99	54.7	18.9	225
14	Atrazine	90 WG	WG	1.65 lb/a	A								
14	Liberty	2.34 L	L	32 fl oz/a	B								
14	DiFlexx	4 L	L	8 fl oz/a	B								
14	N-Pak AMS liquid	L	L	2.5 % v/v	B								
15	Corvus	2.63 L	L	3.5 fl oz/a	A	93	100	100	100	100	53.7	20.2	209
15	Atrazine	90 WG	WG	1.65 lb/a	A								
15	DiFlexx	4 L	L	8 fl oz/a	B								
15	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	B								
15	N-Pak AMS liquid	L	L	2.5 % v/v	B								

* Adjusted means

Could not calculate LSD (% mean diff) for columns 9,15,17,19,25,28 because error mean square = 0.

Comparison of two pass weed control systems in corn

Trial ID: C08-17

Location: Campus C-28

Investigator: Christy Sprague

Study Director: Burns, Stiles, Powell

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH			
Crop Code						ZEAMX	ZEAMX	ZEAMX
Rating Date	7/24/17	7/24/17	7/24/17	7/24/17	7/24/17	10/17/17	10/17/17	10/17/17
Rating Type	control	control	control	control	control	test wieght	moisture	YIELD
Rating Unit	percent	percent	percent	percent	percent	lbs/bu	percent	BU
Trt-Eval Interval	41 DA-B	41 DA-B	41 DA-B	41 DA-B	41 DA-B	155 DA-A	155 DA-A	at 15% M

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	
16	Corvus	2.63 L	L	3.5 fl oz/a	A	A	98	100	100	100	100	53.9	20.2	213
16	Atrazine	90 WG	WG	1.65 lb/a	A	A								
16	Liberty	2.34 L	L	32 fl oz/a	B	B								
16	DiFlexx	4 L	L	6 fl oz/a	B	B								
16	N-Pak AMS liquid	L	L	2.5 % v/v	B	B								
17	Corvus	2.63 L	L	3.5 fl oz/a	A	A	96	100	100	100	100	54.9	18.7	218
17	Atrazine	90 WG	WG	1.65 lb/a	A	A								
17	Roundup PowerMax	4.5 SL	SL	22 fl oz/a	B	B								
17	DiFlexx Duo	2.13 L	L	24 fl oz/a	B	B								
17	N-Pak AMS liquid	L	L	2.5 % v/v	B	B								
	LSD P=.05						3.4	1.9	.	1.0	1.9	0.89	1.73	25.5
	Standard Deviation						2.4	1.3	0.0	0.7	1.4	0.62	1.22	17.9
	CV						2.57	1.41	0.0	0.77	1.46	1.14	6.37	8.64

* Adjusted means

Could not calculate LSD (% mean diff) for columns 9,15,17,19,25,28 because error mean square = 0.