

**Commercial programs for weed control in corn**

Trial ID: C03-17 Study Dir.: Burns, Stiles, Powell  
 Conducted: Campus C-27 Investigator: Christy Sprague

**Planting Date:** 5/15/17 **Row Spacing:** 30 IN  
**Variety:** P9807AM **No. of Reps:** 4  
**Population:** 33500 Seeds/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:** 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	D
<b>Application Timing:</b>	PRE	EPOS	POST	LPOS
<b>Date Treated:</b>	5/15/17	6/7/17	6/13/17	6/21/17
<b>Time Treated:</b>	7:00 PM	8:40 AM	3:30 PM	11:55 AM
<b>% Cloud Cover:</b>	10	0	50	10
<b>Air Temp., Unit:</b>	70 F	59 F	87 F	70 F
<b>% Relative Humidity:</b>	45	71	62	55
<b>Wind Speed/Unit/Dir:</b>	3 mph SE	2.7 mph N	5.2 mph NNW	3.5 mph NE
<b>Soil Temp, Unit:</b>	69 F	67 F	82 F	67 F
<b>Leaf Moist/Dew Presence (Y/N):</b>	5	5	5	4
<b>Soil Moist:</b>	3	5	5	3

**Crop Stage at Each Application**

	A	B	C	D
<b>Crop 1 Name:</b>	ZEAMX	ZEAMX	ZEAMX	ZEAMX
<b>Height:</b>		5 "	12 "	17 "
<b>Stage:</b>		V3	V5	V6

**Weed Stage at Each Application**

	A	B	C	D
<b>Weed 1 Name:</b>	ANGR	ANGR	ANGR	ANGR
<b>Height:</b>		1 "	2 "	5-12 " (8.5)
<b>Stage:</b>		2L	6L	Many
<b>Weed 2 Name:</b>	CHEAL	CHEAL	CHEAL	CHEAL
<b>Height:</b>		1-2 " (2)	2 "	4-6 " (5)
<b>Stage:</b>		4-6L	6L	Many
<b>Weed 3 Name:</b>	AMAPO	AMAPO	AMAPO	AMAPO
<b>Height:</b>		1 "	2 "	4-6 " (5)
<b>Stage:</b>		2L	4L	8-10L
<b>Weed 4 Name:</b>	AMBEL	AMBEL	AMBEL	AMBEL
<b>Height:</b>		0.5-1 " (1)	1 "	2-4 " (3)
<b>Stage:</b>		4-6L	5L	8L
<b>Weed 5 Name:</b>	ABUTH	ABUTH	ABUTH	ABUTH
<b>Height:</b>		1 "	2-3 " (3)	1-8 " (4.5)
<b>Stage:</b>		2L	4-6L	Many

**Weed Density**

	1	2	3	4	5
<b>Date:</b>	6/21/17	6/21/17	6/21/17	6/21/17	6/21/17
<b>Weed Name:</b>	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
<b>Density:</b>	3 FT2	13 FT2	1 FT2	1 FT2	1 FT2

**Application Equipment**

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<b>Appl</b>	<b>Sprayer Type</b>	<b>Ground Speed</b>	<b>Nozzle Type</b>	<b>Nozzle Size</b>	<b>Nozzle Height</b>	<b>Nozzle Spacing</b>	<b>Boom Width</b>	<b>Spray Volume</b>	<b>Carrier</b>	<b>Operation Pressure</b>
<b>A</b>	Cub	3.8 MPH	AIXR	11003	22 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
<b>B</b>	Cub	3.8 MPH	AIXR	11003	24 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
<b>C</b>	Cub	3.8 MPH	AIXR	11003	26 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
<b>D</b>	Cub	3.8 MPH	AIXR	11003	30 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

**Comments:**

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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	6/20/17	6/20/17	6/20/17
Rating Type	injury control			control			control			injury control		
Rating Unit	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	7 DA-C	7 DA-C	7 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	*	
1	Balance Flexx	2 L		4 fl oz/a	A	A	0	100	100	100	100	100	0	100	100
1	Harness Xtra 5.6L	5.6 L		1.8 qt/a	A	A									
2	Keystone NXT	5.6 L		2.4 qt/a	A	A	0	100	100	100	100	100	0	99	100
2	Hornet WDG	68.5 WG		3 oz/a	A	A									
3	Resicore	3.29 L		2 qt/a	A	A	0	100	100	100	100	100	0	100	100
3	Keystone NXT	5.6 L		1 qt/a	A	A									
4	Acuron	3.44 L		3 qt/a	A	A	0	100	100	100	100	100	0	100	100
5	Acuron Flexi	3.26 L		2.25 qt/a	A	A	0	100	100	100	100	100	0	99	100
6	Resicore	3.29 L		2.75 qt/a	A	A	0	100	100	100	100	100	0	100	100
6	Atrazine	90 WG		1.1 lb/a	A	A									
7	Capreno	3.45 L		3 fl oz/a	B	B	0	96	97	100	98	100	1	97	99
7	Roundup PowerMax	4.5 SL		22 fl oz/a	B	B									
7	N-Pak AMS liquid	L		2.5 % v/v	B	B									
8	Anthem MAXX	4.3 L		2 fl oz/a	B	B	5	99	100	100	100	100	3	99	100
8	Solstice	4 L		2.5 fl oz/a	B	B									
8	Atrazine	90 WG		1.1 lb/a	B	B									
8	Roundup PowerMax	4.5 SL		22 fl oz/a	B	B									
8	Crop oil concentrate	SL		1 % v/v	B	B									
8	N-Pak AMS liquid	L		2.5 % v/v	B	B									
9	Liberty	2.34 L		32 fl oz/a	B	B	0	97	99	100	100	100	1	99	98
9	Degree Xtra	4.04 L		2 qt/a	B	B									
9	N-Pak AMS liquid	L		2.5 % v/v	B	B									
10	Armezon PRO	5.35 L		16 fl oz/a	B	B	0	99	100	100	99	100	1	99	100
10	Roundup PowerMax	4.5 SL		16 fl oz/a	B	B									
10	Atrazine	90 WG		1.1 lb/a	B	B									
10	Surfactant	L		0.25 % v/v	B	B									
10	N-Pak AMS liquid	L		2.5 % v/v	B	B									
11	Resicore	3.29 L		1.25 qt/a	B	B	3	100	100	100	100	100	3	100	100
11	Atrazine	90 WG		0.56 lb/a	B	B									
11	Durango DMA	4 SL		1 qt/a	B	B									
11	N-Pak AMS liquid	L		2.5 % v/v	B	B									
12	Harness Max	3.82 L		64 fl oz/a	B	B	5	99	100	100	100	100	4	100	100
12	Atrazine	90 WG		1.1 lb/a	B	B									
12	Roundup PowerMax	4.5 SL		22 fl oz/a	B	B									
12	N-Pak AMS liquid	L		2.5 % v/v	B	B									

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 10,19 because error mean square = 0.

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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	6/20/17	6/20/17	6/20/17	6/20/17		
Rating Type	injury control			control			control			injury control			control		
Rating Unit	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	7 DA-C	7 DA-C	7 DA-C	7 DA-C		

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	*	
13	Warrant	3 L		3 pt/a		B	0	97	96	99	93	98	0	96	93
13	Atazine	90 WG		0.56 lb/a		B									
13	Roundup PowerMax	4.5 SL		22 fl oz/a		B									
13	N-Pak AMS liquid	L		2.5 % v/v		B									
13	Roundup PowerMax	4.5 SL		22 fl oz/a		D									
13	N-Pak AMS liquid	L		2.5 % v/v		D									
14	Untreated						0	0	0	0	0	0	0	0	0
15	Cinch ATZ	5.5 L		1 qt/a		A	0	100	100	100	99	100	0	99	100
15	Revulin Q	51.2 WG		3.4 oz/a		B									
15	Surfactant	L		0.25 % v/v		B									
15	N-Pak AMS liquid	L		2.5 % v/v		B									
16	Cinch ATZ	5.5 L		1 qt/a		A	0	100	100	100	98	99	0	99	100
16	Resolve Q	22.4 WG		1.25 oz/a		B									
16	FeXapan	2.9 SL		22 fl oz/a		B									
16	Surfactant	L		0.25 % v/v		B									
16	N-Pak AMS liquid	L		2.5 % v/v		B									
17	Verdict	5.57 L		14 fl oz/a		A	0	100	100	100	100	100	0	100	100
17	Atrazine	90 WG		1.1 lb/a		A									
17	Roundup PowerMax	4.5 SL		32 fl oz/a		C									
17	N-Pak AMS liquid	L		2.5 % v/v		C									
18	Zidua SC	4.17 L		3.3 fl oz/a		A	0	100	100	100	100	100	0	100	100
18	Sharpen	2.85 L		2 fl oz/a		A									
18	Atrazine	90 WG		1.1 lb/a		A									
18	Roundup PowerMax	4.5 SL		32 fl oz/a		C									
18	N-Pak AMS liquid	L		2.5 % v/v		C									
19	Zidua SC	4.17 L		3.3 fl oz/a		A	0	98	100	100	97	99	0	100	99
19	Atrazine	90 WG		1.1 lb/a		A									
19	Roundup PowerMax	4.5 SL		32 fl oz/a		C									
19	N-Pak AMS liquid	L		2.5 % v/v		C									
20	TripleFLEX II	4.16 L		1 qt/a		A	0	100	100	100	100	100	0	100	100
20	Degree Xtra	4 L		1.5 qt/a		A									
20	Roundup PowerMax	4.5 SL		22 fl oz/a		C									
20	N-Pak AMS liquid	L		2.5 % v/v		C									
21	Cinch ATZ	5.5 L		2 qt/a		A	0	100	100	100	100	100	0	100	100
21	Instigate	45.84 WG		5.25 oz/a		A									
21	Abundit Edge	4.5 SL		22 fl oz/a		C									
21	N-Pak AMS liquid	L		2.5 % v/v		C									

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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	6/20/17	6/20/17	6/20/17	6/20/17
Rating Type	injury control			control			control			injury control			control
Rating Unit	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	7 DA-C	7 DA-C	7 DA-C	7 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	*	
22	Instigate	45.84	WG	5.25	oz/a	A	0	97	100	100	100	100	0	100	100
22	Atrazine	90	WG	1.1	lb/a	A									
22	Abundit Edge	4.5	SL	22	fl oz/a	C									
22	N-Pak AMS liquid		L	2.5	% v/v	C									
23	Balance Flexx	2	L	4	fl oz/a	A	0	99	100	100	98	99	0	100	100
23	Roundup PowerMax	4.5	SL	22	fl oz/a	C									
23	Diflexx Duo	2.13	L	24	fl oz/a	C									
23	N-Pak AMS liquid		L	2.5	% v/v	C									
24	Degree Xtra	4	L	2	qt/a	A	0	100	100	100	95	96	0	100	100
24	Status	56	WG	2	oz/a	C									
24	Roundup PowerMax	4.5	SL	22	fl oz/a	C									
24	N-Pak AMS liquid		L	2.5	% v/v	C									
25	Anthem MAXX	4.3	L	4	fl oz/a	A	0	99	100	100	97	100	2	100	100
25	Atrazine	90	DF	1.1	lb/a	A									
25	Solstice	4	L	2.5	fl oz/a	C									
25	Atrazine	90	WG	0.56	lb/a	C									
25	Roundup PowerMax	4.5	SL	22	fl oz/a	C									
25	Crop oil concentrate		L	1	% v/v	C									
25	N-Pak AMS liquid		L	2.5	% v/v	C									
26	Acuron	3.44	L	1.5	qt/a	A	0	100	100	100	100	100	0	100	100
26	Acuron	3.44	L	1.5	qt/a	C									
26	Roundup PowerMax	4.5	SL	26	fl oz/a	C									
26	N-Pak AMS liquid		L	2.5	% v/v	C									
27	Weed Free						0	99	100	100	97	100	0	99	98
LSD	P=.05						0.6	2.4	1.7	0.3	2.7	1.6	0.6	2.0	1.6
Standard Deviation							0.4	1.7	1.2	0.2	2.0	1.1	0.4	1.5	1.1
CV							84.95	1.8	1.24	0.23	2.06	1.18	84.21	1.52	1.18

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Pest Code	AMAPO AMBEL ABUTH			ANGR CHEAL			AMAPO AMBEL ABUTH			
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	6/26/17	6/26/17
Rating Type	control	control	control	injury	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-C	7 DA-C	7 DA-C	5 DA-D	5 DA-D	5 DA-D	5 DA-D	5 DA-D	5 DA-D	5 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	*
1	Balance Flexx	2 L		4 fl oz/a	A		100	100	100	0	99	100	100	100
1	Harness Xtra 5.6L	5.6 L		1.8 qt/a	A									
2	Keystone NXT	5.6 L		2.4 qt/a	A		100	100	100	0	99	100	100	100
2	Hornet WDG	68.5 WG		3 oz/a	A									
3	Resicore	3.29 L		2 qt/a	A		100	100	100	0	100	100	100	100
3	Keystone NXT	5.6 L		1 qt/a	A									
4	Acuron	3.44 L		3 qt/a	A		100	100	100	0	100	100	100	100
5	Acuron Flexi	3.26 L		2.25 qt/a	A		100	100	100	0	99	100	100	100
6	Resicore	3.29 L		2.75 qt/a	A		100	100	100	0	100	100	100	100
6	Atrazine	90 WG		1.1 lb/a	A									
7	Capreno	3.45 L		3 fl oz/a	B		100	100	100	0	99	98	100	100
7	Roundup PowerMax	4.5 SL		22 fl oz/a	B									
7	N-Pak AMS liquid	L		2.5 % v/v	B									
8	Anthem MAXX	4.3 L		2 fl oz/a	B		100	100	100	2	97	100	100	100
8	Solstice	4 L		2.5 fl oz/a	B									
8	Atrazine	90 WG		1.1 lb/a	B									
8	Roundup PowerMax	4.5 SL		22 fl oz/a	B									
8	Crop oil concentrate	SL		1 % v/v	B									
8	N-Pak AMS liquid	L		2.5 % v/v	B									
9	Liberty	2.34 L		32 fl oz/a	B		100	100	100	0	97	99	100	100
9	Degree Xtra	4.04 L		2 qt/a	B									
9	N-Pak AMS liquid	L		2.5 % v/v	B									
10	Armezon PRO	5.35 L		16 fl oz/a	B		100	100	100	0	98	100	100	100
10	Roundup PowerMax	4.5 SL		16 fl oz/a	B									
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									
11	Resicore	3.29 L		1.25 qt/a	B		100	100	100	0	100	100	100	100
11	Atrazine	90 WG		0.56 lb/a	B									
11	Durango DMA	4 SL		1 qt/a	B									
11	N-Pak AMS liquid	L		2.5 % v/v	B									
12	Harness Max	3.82 L		64 fl oz/a	B		100	100	100	2	99	100	100	100
12	Atrazine	90 WG		1.1 lb/a	B									
12	Roundup PowerMax	4.5 SL		22 fl oz/a	B									
12	N-Pak AMS liquid	L		2.5 % v/v	B									

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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	6/26/17	6/26/17
Rating Type	control	control	control	injury	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-C	7 DA-C	7 DA-C	5 DA-D	5 DA-D	5 DA-D	5 DA-D	5 DA-D	5 DA-D	5 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Code	*	*	*	*	*	*	*	*	*
13	Warrant	3 L		3 pt/a	B	100	98	100	0	100	100	100	100	100
13	Atazine	90 WG		0.56 lb/a	B									
13	Roundup PowerMax	4.5 SL		22 fl oz/a	B									
13	N-Pak AMS liquid	L		2.5 % v/v	B									
13	Roundup PowerMax	4.5 SL		22 fl oz/a	D									
13	N-Pak AMS liquid	L		2.5 % v/v	D									
14	Untreated					0	0	0	0	0	0	0	0	0
15	Cinch ATZ	5.5 L		1 qt/a	A	100	100	100	0	99	100	100	100	100
15	Revulin Q	51.2 WG		3.4 oz/a	B									
15	Surfactant	L		0.25 % v/v	B									
15	N-Pak AMS liquid	L		2.5 % v/v	B									
16	Cinch ATZ	5.5 L		1 qt/a	A	100	100	100	0	97	100	100	100	100
16	Resolve Q	22.4 WG		1.25 oz/a	B									
16	FeXapan	2.9 SL		22 fl oz/a	B									
16	Surfactant	L		0.25 % v/v	B									
16	N-Pak AMS liquid	L		2.5 % v/v	B									
17	Verdict	5.57 L		14 fl oz/a	A	100	100	100	0	100	100	100	100	100
17	Atrazine	90 WG		1.1 lb/a	A									
17	Roundup PowerMax	4.5 SL		32 fl oz/a	C									
17	N-Pak AMS liquid	L		2.5 % v/v	C									
18	Zidua SC	4.17 L		3.3 fl oz/a	A	100	100	100	0	100	100	100	100	100
18	Sharpen	2.85 L		2 fl oz/a	A									
18	Atrazine	90 WG		1.1 lb/a	A									
18	Roundup PowerMax	4.5 SL		32 fl oz/a	C									
18	N-Pak AMS liquid	L		2.5 % v/v	C									
19	Zidua SC	4.17 L		3.3 fl oz/a	A	100	100	100	0	100	98	100	100	100
19	Atrazine	90 WG		1.1 lb/a	A									
19	Roundup PowerMax	4.5 SL		32 fl oz/a	C									
19	N-Pak AMS liquid	L		2.5 % v/v	C									
20	TripleFLEX II	4.16 L		1 qt/a	A	100	100	100	0	100	100	100	100	100
20	Degree Xtra	4 L		1.5 qt/a	A									
20	Roundup PowerMax	4.5 SL		22 fl oz/a	C									
20	N-Pak AMS liquid	L		2.5 % v/v	C									
21	Cinch ATZ	5.5 L		2 qt/a	A	100	100	100	0	100	100	100	100	100
21	Instigate	45.84 WG		5.25 oz/a	A									
21	Abundit Edge	4.5 SL		22 fl oz/a	C									
21	N-Pak AMS liquid	L		2.5 % v/v	C									

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 10,19 because error mean square = 0.

**Commercial programs for weed control in corn**

**Trial ID: C03-17**

**Location: Campus C-27**

**Investigator: Christy Sprague**

**Study Director: Burns, Stiles, Powell**

Pest Code	AMAPO	AMBEL	ABUTH	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	
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	5 DA-D	5 DA-D	5 DA-D	5 DA-D	5 DA-D	

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	*
22	Instigate	45.84	WG	5.25	oz/a	A	100	100	100	0	100	100	100	100
22	Atrazine	90	WG	1.1	lb/a	A								
22	Abundit Edge	4.5	SL	22	fl oz/a	C								
22	N-Pak AMS liquid		L	2.5	% v/v	C								
23	Balance Flexx	2	L	4	fl oz/a	A	100	100	100	0	100	100	100	100
23	Roundup PowerMax	4.5	SL	22	fl oz/a	C								
23	Diflexx Duo	2.13	L	24	fl oz/a	C								
23	N-Pak AMS liquid		L	2.5	% v/v	C								
24	Degree Xtra	4	L	2	qt/a	A	100	100	100	0	100	100	100	100
24	Status	56	WG	2	oz/a	C								
24	Roundup PowerMax	4.5	SL	22	fl oz/a	C								
24	N-Pak AMS liquid		L	2.5	% v/v	C								
25	Anthem MAXX	4.3	L	4	fl oz/a	A	100	100	100	0	100	100	100	100
25	Atrazine	90	DF	1.1	lb/a	A								
25	Solstice	4	L	2.5	fl oz/a	C								
25	Atrazine	90	WG	0.56	lb/a	C								
25	Roundup PowerMax	4.5	SL	22	fl oz/a	C								
25	Crop oil concentrate		L	1	% v/v	C								
25	N-Pak AMS liquid		L	2.5	% v/v	C								
26	Acuron	3.44	L	1.5	qt/a	A	100	100	100	0	100	100	100	100
26	Acuron	3.44	L	1.5	qt/a	C								
26	Roundup PowerMax	4.5	SL	26	fl oz/a	C								
26	N-Pak AMS liquid		L	2.5	% v/v	C								
27	Weed Free						100	100	100	0	99	100	100	100
LSD P=.05							.	0.9	0.5	0.3	2.1	1.7	0.3	0.7
Standard Deviation							0.0	0.7	0.3	0.2	1.5	1.2	0.2	0.5
CV							0.0	0.68	0.34	120.89	1.59	1.23	0.2	0.49

\* Adjusted means

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## Commercial programs for weed control in corn

Trial ID: C03-17

Location: Campus C-27

Investigator: Christy Sprague

Study Director: Burns, Stiles, Powell

Pest Code														
Crop Code														
Rating Date														
Rating Type														
Rating Unit														
Trt-Eval Interval														

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	*	
1	Balance Flexx	2 L		4 fl oz/a	A		0	100	100	100	100	100	100	54.6	17.2
1	Harness Xtra 5.6L	5.6 L		1.8 qt/a	A										
2	Keystone NXT	5.6 L		2.4 qt/a	A		0	100	100	100	99	100	100	54.5	16.7
2	Hornet WDG	68.5 WG		3 oz/a	A										
3	Resicore	3.29 L		2 qt/a	A		0	100	100	100	100	100	100	54.8	16.9
3	Keystone NXT	5.6 L		1 qt/a	A										
4	Acuron	3.44 L		3 qt/a	A		0	100	100	100	100	100	100	54.9	17.1
5	Acuron Flexi	3.26 L		2.25 qt/a	A		0	98	100	100	100	100	100	54.8	17.4
6	Resicore	3.29 L		2.75 qt/a	A		0	100	100	100	100	100	100	54.7	16.5
6	Atrazine	90 WG		1.1 lb/a	A										
7	Capreno	3.45 L		3 fl oz/a	B		0	96	96	98	99	98	98	54.9	16.8
7	Roundup PowerMax	4.5 SL		22 fl oz/a	B										
7	N-Pak AMS liquid	L		2.5 % v/v	B										
8	Anthem MAXX	4.3 L		2 fl oz/a	B		0	96	100	100	100	100	100	55.1	17.4
8	Solstice	4 L		2.5 fl oz/a	B										
8	Atrazine	90 WG		1.1 lb/a	B										
8	Roundup PowerMax	4.5 SL		22 fl oz/a	B										
8	Crop oil concentrate	SL		1 % v/v	B										
8	N-Pak AMS liquid	L		2.5 % v/v	B										
9	Liberty	2.34 L		32 fl oz/a	B		0	98	99	99	99	88	99	55.0	17.5
9	Degree Xtra	4.04 L		2 qt/a	B										
9	N-Pak AMS liquid	L		2.5 % v/v	B										
10	Armezon PRO	5.35 L		16 fl oz/a	B		0	99	100	100	100	100	99	54.7	16.4
10	Roundup PowerMax	4.5 SL		16 fl oz/a	B										
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										
11	Resicore	3.29 L		1.25 qt/a	B		0	99	100	100	100	100	100	54.7	17.3
11	Atrazine	90 WG		0.56 lb/a	B										
11	Durango DMA	4 SL		1 qt/a	B										
11	N-Pak AMS liquid	L		2.5 % v/v	B										
12	Harness Max	3.82 L		64 fl oz/a	B		0	98	100	100	100	100	100	54.4	18.0
12	Atrazine	90 WG		1.1 lb/a	B										
12	Roundup PowerMax	4.5 SL		22 fl oz/a	B										
12	N-Pak AMS liquid	L		2.5 % v/v	B										

\* Adjusted means

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## Commercial programs for weed control in corn

Trial ID: C03-17

Location: Campus C-27

Investigator: Christy Sprague

Study Director: Burns, Stiles, Powell

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH		
Crop Code	ZEAMX					ZEAMX	ZEAMX
Rating Date	7/14/17	7/14/17	7/14/17	7/14/17	7/14/17	7/14/17	10/17/17
Rating Type	injury	control	control	control	control	control	test wieght
Rating Unit	percent	percent	percent	percent	percent	percent	lbs/bu
Trt-Eval Interval	23 DA-D	23 DA-D	23 DA-D	23 DA-D	23 DA-D	23 DA-D	155 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Code	*	*	*	*	*	*	*	*
13	Warrant	3 L		3 pt/a	B	0	100	100	100	100	100	54.5	17.5
13	Atazine	90 WG		0.56 lb/a	B								
13	Roundup PowerMax	4.5 SL		22 fl oz/a	B								
13	N-Pak AMS liquid	L		2.5 % v/v	B								
13	Roundup PowerMax	4.5 SL		22 fl oz/a	D								
13	N-Pak AMS liquid	L		2.5 % v/v	D								
14	Untreated					0	0	0	0	0	0	53.7	17.7
15	Cinch ATZ	5.5 L		1 qt/a	A	0	97	100	100	100	100	55.3	16.4
15	Revulin Q	51.2 WG		3.4 oz/a	B								
15	Surfactant	L		0.25 % v/v	B								
15	N-Pak AMS liquid	L		2.5 % v/v	B								
16	Cinch ATZ	5.5 L		1 qt/a	A	0	95	100	100	100	100	54.7	17.6
16	Resolve Q	22.4 WG		1.25 oz/a	B								
16	FeXapan	2.9 SL		22 fl oz/a	B								
16	Surfactant	L		0.25 % v/v	B								
16	N-Pak AMS liquid	L		2.5 % v/v	B								
17	Verdict	5.57 L		14 fl oz/a	A	0	100	100	100	100	100	54.9	18.3
17	Atrazine	90 WG		1.1 lb/a	A								
17	Roundup PowerMax	4.5 SL		32 fl oz/a	C								
17	N-Pak AMS liquid	L		2.5 % v/v	C								
18	Zidua SC	4.17 L		3.3 fl oz/a	A	0	100	100	100	100	100	54.5	17.2
18	Sharpen	2.85 L		2 fl oz/a	A								
18	Atrazine	90 WG		1.1 lb/a	A								
18	Roundup PowerMax	4.5 SL		32 fl oz/a	C								
18	N-Pak AMS liquid	L		2.5 % v/v	C								
19	Zidua SC	4.17 L		3.3 fl oz/a	A	0	99	97	98	100	100	54.5	17.2
19	Atrazine	90 WG		1.1 lb/a	A								
19	Roundup PowerMax	4.5 SL		32 fl oz/a	C								
19	N-Pak AMS liquid	L		2.5 % v/v	C								
20	TripleFLEX II	4.16 L		1 qt/a	A	0	100	100	100	100	100	54.4	17.9
20	Degree Xtra	4 L		1.5 qt/a	A								
20	Roundup PowerMax	4.5 SL		22 fl oz/a	C								
20	N-Pak AMS liquid	L		2.5 % v/v	C								
21	Cinch ATZ	5.5 L		2 qt/a	A	0	100	100	100	100	100	54.7	17.1
21	Instigate	45.84 WG		5.25 oz/a	A								
21	Abundit Edge	4.5 SL		22 fl oz/a	C								
21	N-Pak AMS liquid	L		2.5 % v/v	C								

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 10,19 because error mean square = 0.

**Commercial programs for weed control in corn**

**Trial ID: C03-17**

**Location: Campus C-27**

**Investigator: Christy Sprague**

**Study Director: Burns, Stiles, Powell**

Pest Code													
Crop Code													
Rating Date													
Rating Type													
Rating Unit													
Trt-Eval Interval													

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*
22	Instigate	45.84	WG	5.25	oz/a	A	0	99	100	100	100	100	54.6
22	Atrazine	90	WG	1.1	lb/a	A							17.5
22	Abundit Edge	4.5	SL	22	fl oz/a	C							
22	N-Pak AMS liquid		L	2.5	% v/v	C							
23	Balance Flexx	2	L	4	fl oz/a	A	0	100	100	100	100	100	54.7
23	Roundup PowerMax	4.5	SL	22	fl oz/a	C							17.2
23	Diflexx Duo	2.13	L	24	fl oz/a	C							
23	N-Pak AMS liquid		L	2.5	% v/v	C							
24	Degree Xtra	4	L	2	qt/a	A	0	100	100	100	100	100	54.4
24	Status	56	WG	2	oz/a	C							16.9
24	Roundup PowerMax	4.5	SL	22	fl oz/a	C							
24	N-Pak AMS liquid		L	2.5	% v/v	C							
25	Anthem MAXX	4.3	L	4	fl oz/a	A	0	100	100	100	100	100	54.8
25	Atrazine	90	DF	1.1	lb/a	A							17.3
25	Solstice	4	L	2.5	fl oz/a	C							
25	Atrazine	90	WG	0.56	lb/a	C							
25	Roundup PowerMax	4.5	SL	22	fl oz/a	C							
25	Crop oil concentrate		L	1	% v/v	C							
25	N-Pak AMS liquid		L	2.5	% v/v	C							
26	Acuron	3.44	L	1.5	qt/a	A	0	100	100	100	100	100	54.9
26	Acuron	3.44	L	1.5	qt/a	C							17.3
26	Roundup PowerMax	4.5	SL	26	fl oz/a	C							
26	N-Pak AMS liquid		L	2.5	% v/v	C							
27	Weed Free						0	96	95	95	100	100	54.9
	LSD P=.05						.	3.5	2.0	1.9	1.2	6.1	0.85
	Standard Deviation						0.0	2.5	1.4	1.4	0.9	4.3	0.60
	CV						0.0	2.59	1.49	1.43	0.91	4.54	1.1

\* Adjusted means

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**Commercial programs for weed control in corn**

Trial ID: C03-17

Location: Campus C-27

Investigator: Christy Sprague

Study Director: Burns, Stiles, Powell

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*
1	Balance Flexx	2 L		4 fl oz/a	A		188
1	Harness Xtra 5.6L	5.6 L		1.8 qt/a	A		
2	Keystone NXT	5.6 L		2.4 qt/a	A		188
2	Hornet WDG	68.5 WG		3 oz/a	A		
3	Resicore	3.29 L		2 qt/a	A		184
3	Keystone NXT	5.6 L		1 qt/a	A		
4	Acuron	3.44 L		3 qt/a	A		190
5	Acuron Flexi	3.26 L		2.25 qt/a	A		188
6	Resicore	3.29 L		2.75 qt/a	A		182
6	Atrazine	90 WG		1.1 lb/a	A		
7	Capreno	3.45 L		3 fl oz/a	B		179
7	Roundup PowerMax	4.5 SL		22 fl oz/a	B		
7	N-Pak AMS liquid	L		2.5 % v/v	B		
8	Anthem MAXX	4.3 L		2 fl oz/a	B		195
8	Solstice	4 L		2.5 fl oz/a	B		
8	Atrazine	90 WG		1.1 lb/a	B		
8	Roundup PowerMax	4.5 SL		22 fl oz/a	B		
8	Crop oil concentrate	SL		1 % v/v	B		
8	N-Pak AMS liquid	L		2.5 % v/v	B		
9	Liberty	2.34 L		32 fl oz/a	B		202
9	Degree Xtra	4.04 L		2 qt/a	B		
9	N-Pak AMS liquid	L		2.5 % v/v	B		
10	Armezon PRO	5.35 L		16 fl oz/a	B		186
10	Roundup PowerMax	4.5 SL		16 fl oz/a	B		
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		
11	Resicore	3.29 L		1.25 qt/a	B		184
11	Atrazine	90 WG		0.56 lb/a	B		
11	Durango DMA	4 SL		1 qt/a	B		
11	N-Pak AMS liquid	L		2.5 % v/v	B		
12	Harness Max	3.82 L		64 fl oz/a	B		199
12	Atrazine	90 WG		1.1 lb/a	B		
12	Roundup PowerMax	4.5 SL		22 fl oz/a	B		
12	N-Pak AMS liquid	L		2.5 % v/v	B		

\* Adjusted means

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**Commercial programs for weed control in corn**

Trial ID: C03-17

Location: Campus C-27

Investigator: Christy Sprague

Study Director: Burns, Stiles, Powell

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*
13	Warrant	3	L	3	pt/a	B	200
13	Atazine	90	WG	0.56	lb/a	B	
13	Roundup PowerMax	4.5	SL	22	fl oz/a	B	
13	N-Pak AMS liquid		L	2.5	% v/v	B	
13	Roundup PowerMax	4.5	SL	22	fl oz/a	D	
13	N-Pak AMS liquid		L	2.5	% v/v	D	
14	Untreated						117
15	Cinch ATZ	5.5	L	1	qt/a	A	202
15	Revulin Q	51.2	WG	3.4	oz/a	B	
15	Surfactant		L	0.25	% v/v	B	
15	N-Pak AMS liquid		L	2.5	% v/v	B	
16	Cinch ATZ	5.5	L	1	qt/a	A	201
16	Resolve Q	22.4	WG	1.25	oz/a	B	
16	FeXapan	2.9	SL	22	fl oz/a	B	
16	Surfactant		L	0.25	% v/v	B	
16	N-Pak AMS liquid		L	2.5	% v/v	B	
17	Verdict	5.57	L	14	fl oz/a	A	201
17	Atrazine	90	WG	1.1	lb/a	A	
17	Roundup PowerMax	4.5	SL	32	fl oz/a	C	
17	N-Pak AMS liquid		L	2.5	% v/v	C	
18	Zidua SC	4.17	L	3.3	fl oz/a	A	188
18	Sharpen	2.85	L	2	fl oz/a	A	
18	Atrazine	90	WG	1.1	lb/a	A	
18	Roundup PowerMax	4.5	SL	32	fl oz/a	C	
18	N-Pak AMS liquid		L	2.5	% v/v	C	
19	Zidua SC	4.17	L	3.3	fl oz/a	A	203
19	Atrazine	90	WG	1.1	lb/a	A	
19	Roundup PowerMax	4.5	SL	32	fl oz/a	C	
19	N-Pak AMS liquid		L	2.5	% v/v	C	
20	TripleFLEX II	4.16	L	1	qt/a	A	184
20	Degree Xtra	4	L	1.5	qt/a	A	
20	Roundup PowerMax	4.5	SL	22	fl oz/a	C	
20	N-Pak AMS liquid		L	2.5	% v/v	C	
21	Cinch ATZ	5.5	L	2	qt/a	A	194
21	Instigate	45.84	WG	5.25	oz/a	A	
21	Abundit Edge	4.5	SL	22	fl oz/a	C	
21	N-Pak AMS liquid		L	2.5	% v/v	C	

\* Adjusted means

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**Commercial programs for weed control in corn**

Trial ID: C03-17

Location: Campus C-27

Investigator: Christy Sprague

Study Director: Burns, Stiles, Powell

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*
22	Instigate	45.84	WG	5.25	oz/a	A	188
22	Atrazine	90	WG	1.1	lb/a	A	
22	Abundit Edge	4.5	SL	22	fl oz/a	C	
22	N-Pak AMS liquid		L	2.5	% v/v	C	
23	Balance Flexx	2	L	4	fl oz/a	A	187
23	Roundup PowerMax	4.5	SL	22	fl oz/a	C	
23	Diflexx Duo	2.13	L	24	fl oz/a	C	
23	N-Pak AMS liquid		L	2.5	% v/v	C	
24	Degree Xtra	4	L	2	qt/a	A	189
24	Status	56	WG	2	oz/a	C	
24	Roundup PowerMax	4.5	SL	22	fl oz/a	C	
24	N-Pak AMS liquid		L	2.5	% v/v	C	
25	Anthem MAXX	4.3	L	4	fl oz/a	A	199
25	Atrazine	90	DF	1.1	lb/a	A	
25	Solstice	4	L	2.5	fl oz/a	C	
25	Atrazine	90	WG	0.56	lb/a	C	
25	Roundup PowerMax	4.5	SL	22	fl oz/a	C	
25	Crop oil concentrate		L	1	% v/v	C	
25	N-Pak AMS liquid		L	2.5	% v/v	C	
26	Acuron	3.44	L	1.5	qt/a	A	188
26	Acuron	3.44	L	1.5	qt/a	C	
26	Roundup PowerMax	4.5	SL	26	fl oz/a	C	
26	N-Pak AMS liquid		L	2.5	% v/v	C	
27	Weed Free						197
	LSD P=.05						23.0
	Standard Deviation						16.4
	CV						8.65

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 10,19 because error mean square = 0.