

**Harness MAX one pass soil-applied (PRE) programs in corn**

Trial ID: C11-17 Study Dir.:  
 Conducted: Campus C-28 Investigator: Christy Sprague

**Planting Date:** Jun-15-2017 **Row Spacing:** 30 IN  
**Variety:** DKC 4972 **No. of Reps:** 4  
**Population:** 33500 seeds/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

<b>Crop and Weed Description</b>			
<b>Weed</b>	<b>Code</b>	<b>Common Name</b>	<b>Scientific Name</b>
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
<b>Crop</b>	<b>Code</b>	<b>Common Name</b>	
1	ZEAMX	Corn	

**Application Description**

**A**  
**Application Timing:** PRE  
**Date Treated:** May-15-2017  
**Time Treated:** 9:00 PM  
**% Cloud Cover:** 50  
**Air Temp., Unit:** 65 F  
**% Relative Humidity:** 33  
**Wind Speed/Unit/Dir:** 3 mph SSE  
**Soil Temp, Unit:** 69 F  
**Leaf Moist/Dew Presence (Y/N):** 3  
**Soil Moist:** 5

**Crop Stage at Each Application**

**A**  
**Crop 1 Name:** ZEAMX  
**Height:**  
**Stage:**

**Weed Stage at Each Application**

**A**  
**Weed 1 Name:** ANGR  
**Height:**  
**Stage:**  
**Weed 2 Name:** CHEAL  
**Height:**  
**Stage:**  
**Weed 3 Name:** AMAPO  
**Height:**  
**Stage:**  
**Weed 4 Name:** AMBEL  
**Height:**  
**Stage:**  
**Weed 5 Name:** ABUTH  
**Height:**  
**Stage:**

**Weed Density**

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Date:</b>	May-15-2017	May-15-2017	May-15-2017	May-15-2017	May-15-2017
<b>Weed Name:</b>	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
<b>Density:</b>	1 FT2	1 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>
A	Cub	3.8 MPH	AIXR	11003	22 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

**Comments:** Treatment 9: the rate of Prowl H2O was twice the recommended rate. The correct rate should be 1.5 qt/A.

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Investigator: Christy Sprague

Study Director:

Pest Code				ANGR	CHEAL	AMAPO	AMBEL
Crop Code		ZEAMX	ZEAMX				
Rating Date		Jun-9-2017	Jun-13-2017	Jun-13-2017	Jun-13-2017	Jun-13-2017	Jun-13-2017
Rating Type		injury	injury	control	control	control	control
Rating Unit		percent	percent	percent	percent	percent	percent
Trt-Eval Interval		25 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A
Number of Decimals		0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
1	Harness MAX	3.82 L	L	75 fl oz/a	A	A	0	0	100	100	100	100
2	Harness MAX	3.82 L	L	75 fl oz/a	A	A	0	0	100	100	100	100
2	Atrazine	90 WG	WG	1.1 lb/a	A	A						
3	Harness MAX	3.82 L	L	75 fl oz/a	A	A	1	0	100	100	100	100
3	Python WDG	80 WG	WG	0.9 oz/a	A	A						
4	Harness MAX	3.82 L	L	75 fl oz/a	A	A	0	0	100	100	100	100
4	Stinger	3 SL	SL	4 fl oz/a	A	A						
5	Harness MAX	3.82 L	L	75 fl oz/a	A	A	0	0	100	100	100	100
5	Hornet WDG	68.5 WG	WG	4 oz/a	A	A						
6	Harness MAX	3.82 L	L	75 fl oz/a	A	A	0	0	100	100	100	100
6	Callisto	4 L	L	1.7 fl oz/a	A	A						
7	Harness MAX	3.82 L	L	75 fl oz/a	A	A	1	0	100	100	100	100
7	Harness	7 L	L	0.55 qt/a	A	A						
8	Harness MAX	3.82 L	L	75 fl oz/a	A	A	0	0	100	100	100	100
8	Princep 4L	4 L	L	1 qt/a	A	A						
9	Harness MAX	3.82 L	L	75 fl oz/a	A	A	0	0	100	100	100	100
9	Prowl H20	3.8 L	L	3 qt/a	A	A						
10	Untreated						0	0	0	0	0	0
11	Harness MAX	3.82 L	L	75 fl oz/a	A	A	0	0	100	100	100	100
11	TripleFLEX II	4.16 L	L	2 pt/a	A	A						
12	Harness MAX	3.82 L	L	75 fl oz/a	A	A	0	0	100	100	100	100
12	XtendiMax	2.9 SL	SL	22 fl oz/a	A	A						
12	Intact	L	L	0.5 % v/v	A	A						
13	TripleFLEX II	4.16 L	L	1 qt/a	A	A	0	0	100	100	100	100
13	Atrazine	90 WG	WG	1.1 lb/a	A	A						
14	Degree Extra	4.04 L	L	3 qt/a	A	A	0	0	100	100	100	100
14	Balance Flexx	2 L	L	3 fl oz/a	A	A						
15	Corvus	2.63 L	L	4 fl oz/a	A	A	1	1	100	100	100	100
15	Atrazine	90 WG	WG	1.1 lb/a	A	A						
16	Resicore	3.29 L	L	2.5 qt/a	A	A	0	0	100	100	100	100
16	Atrazine	90 WG	WG	1.1 lb/a	A	A						

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 4,5,6,8,10,11,12,13 because error mean square = 0.

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Pest Code				ANGR	CHEAL	AMAPO	AMBEL
Crop Code		ZEAMX	ZEAMX				
Rating Date		Jun-9-2017	Jun-13-2017	Jun-13-2017	Jun-13-2017	Jun-13-2017	Jun-13-2017
Rating Type		injury	injury	control	control	control	control
Rating Unit		percent	percent	percent	percent	percent	percent
Trt-Eval Interval		25 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A
Number of Decimals		0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
17	Acuron	3.44 L		3 qt/a		A	0	0	100	100	100	100
18	Harness MAX	3.82 L		75 fl oz/a		A	0	0	100	100	100	100
18	Stinger	3 L		4 fl oz/a		A						
18	Atrazine	90 WG		1.1 lb/a		A						
	LSD P=.05						0.6	0.2	0.5	.	.	.
	Standard Deviation						0.4	0.1	0.3	0.0	0.0	0.0
	CV						184.26	489.9	0.34	0.0	0.0	0.0

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Location: Campus C-28

Investigator: Christy Sprague

Study Director:

Pest Code	ABUTH	ZEAMX	ANGR	CHEAL	AMAPO	AMBEL
Crop Code						
Rating Date	Jun-13-2017	Jul-19-2017	Jul-19-2017	Jul-19-2017	Jul-19-2017	Jul-19-2017
Rating Type	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	29 DA-A	65 DA-A	65 DA-A	65 DA-A	65 DA-A	65 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
1	Harness MAX	3.82 L		75 fl oz/a	A		100	0	100	100	100	100
2	Harness MAX	3.82 L		75 fl oz/a	A		100	0	100	100	100	100
2	Atrazine	90 WG		1.1 lb/a	A							
3	Harness MAX	3.82 L		75 fl oz/a	A		100	0	100	100	100	100
3	Python WDG	80 WG		0.9 oz/a	A							
4	Harness MAX	3.82 L		75 fl oz/a	A		100	0	100	100	100	100
4	Stinger	3 SL		4 fl oz/a	A							
5	Harness MAX	3.82 L		75 fl oz/a	A		100	0	100	100	100	100
5	Hornet WDG	68.5 WG		4 oz/a	A							
6	Harness MAX	3.82 L		75 fl oz/a	A		100	0	100	100	100	100
6	Callisto	4 L		1.7 fl oz/a	A							
7	Harness MAX	3.82 L		75 fl oz/a	A		100	0	100	100	100	100
7	Harness	7 L		0.55 qt/a	A							
8	Harness MAX	3.82 L		75 fl oz/a	A		100	0	100	100	100	100
8	Princep 4L	4 L		1 qt/a	A							
9	Harness MAX	3.82 L		75 fl oz/a	A		100		100	100	100	100
9	Prowl H20	3.8 L		3 qt/a	A							
10	Untreated						0	0	0	0	0	0
11	Harness MAX	3.82 L		75 fl oz/a	A		100	0	100	100	100	100
11	TripleFLEX II	4.16 L		2 pt/a	A							
12	Harness MAX	3.82 L		75 fl oz/a	A		100	0	100	100	100	100
12	XtendiMax	2.9 SL		22 fl oz/a	A							
12	Intact	L		0.5 % v/v	A							
13	TripleFLEX II	4.16 L		1 qt/a	A		100	0	100	100	100	100
13	Atrazine	90 WG		1.1 lb/a	A							
14	Degree Extra	4.04 L		3 qt/a	A		100	0	100	100	100	100
14	Balance Flexx	2 L		3 fl oz/a	A							
15	Corvus	2.63 L		4 fl oz/a	A		100	0	100	100	100	100
15	Atrazine	90 WG		1.1 lb/a	A							
16	Resicore	3.29 L		2.5 qt/a	A		100	0	100	100	100	100
16	Atrazine	90 WG		1.1 lb/a	A							

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Pest Code	ABUTH		ANGR	CHEAL	AMAPO	AMBEL
Crop Code		ZEAMX				
Rating Date	Jun-13-2017	Jul-19-2017	Jul-19-2017	Jul-19-2017	Jul-19-2017	Jul-19-2017
Rating Type	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	29 DA-A	65 DA-A	65 DA-A	65 DA-A	65 DA-A	65 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
17	Acuron	3.44 L		3 qt/a		A	100	0	100	100	100	100
18	Harness MAX	3.82 L		75 fl oz/a		A	100	0	100	100	100	100
18	Stinger	3 L		4 fl oz/a		A						
18	Atrazine	90 WG		1.1 lb/a		A						
	LSD P=.05						0.3	.	0.6	.	.	.
	Standard Deviation						0.2	0.0	0.4	0.0	0.0	0.0
	CV						0.25	0.0	0.44	0.0	0.0	0.0

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Study Director:

Pest Code	ABUTH			
Crop Code		ZEAMX	ZEAMX	ZEAMX
Rating Date	Jul-19-2017	Oct-17-2017	Oct-17-2017	Oct-17-2017
Rating Type	control	test wieght	moisture	YIELD
Rating Unit	percent	lbs/bu	percent	BU
Trt-Eval Interval	65 DA-A	155 DA-A	155 DA-A	at 15% M
Number of Decimals	0	1	1	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*
1	Harness MAX	3.82 L	L	75 fl oz/a	A	A	100	54.1	18.0	206
2	Harness MAX	3.82 L	L	75 fl oz/a	A	A	100	53.4	18.4	201
	2 Atrazine	90 WG	WG	1.1 lb/a	A	A				
3	Harness MAX	3.82 L	L	75 fl oz/a	A	A	100	53.0	19.9	215
	3 Python WDG	80 WG	WG	0.9 oz/a	A	A				
4	Harness MAX	3.82 L	L	75 fl oz/a	A	A	100	54.1	18.5	213
	4 Stinger	3 SL	SL	4 fl oz/a	A	A				
5	Harness MAX	3.82 L	L	75 fl oz/a	A	A	100	53.4	18.5	188
	5 Hornet WDG	68.5 WG	WG	4 oz/a	A	A				
6	Harness MAX	3.82 L	L	75 fl oz/a	A	A	100	53.6	18.9	188
	6 Callisto	4 L	L	1.7 fl oz/a	A	A				
7	Harness MAX	3.82 L	L	75 fl oz/a	A	A	100	53.7	18.4	198
	7 Harness	7 L	L	0.55 qt/a	A	A				
8	Harness MAX	3.82 L	L	75 fl oz/a	A	A	100	53.5	18.7	199
	8 Princep 4L	4 L	L	1 qt/a	A	A				
9	Harness MAX	3.82 L	L	75 fl oz/a	A	A	100	54.2	17.7	190
	9 Prowl H20	3.8 L	L	3 qt/a	A	A				
10	Untreated						0	54.0	16.8	177
11	Harness MAX	3.82 L	L	75 fl oz/a	A	A	100	53.0	19.9	202
	11 TripleFLEX II	4.16 L	L	2 pt/a	A	A				
12	Harness MAX	3.82 L	L	75 fl oz/a	A	A	100	53.4	18.2	220
	12 XtendiMax	2.9 SL	SL	22 fl oz/a	A	A				
	12 Intact	L	L	0.5 % v/v	A	A				
13	TripleFLEX II	4.16 L	L	1 qt/a	A	A	100	53.9	16.9	187
	13 Atrazine	90 WG	WG	1.1 lb/a	A	A				
14	Degree Extra	4.04 L	L	3 qt/a	A	A	100	53.9	17.8	202
	14 Balance Flexx	2 L	L	3 fl oz/a	A	A				
15	Corvus	2.63 L	L	4 fl oz/a	A	A	100	53.4	17.5	187
	15 Atrazine	90 WG	WG	1.1 lb/a	A	A				
16	Resicore	3.29 L	L	2.5 qt/a	A	A	100	53.8	16.3	191
	16 Atrazine	90 WG	WG	1.1 lb/a	A	A				

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**Study Director:**

Pest Code	ABUTH			
Crop Code		ZEAMX	ZEAMX	ZEAMX
Rating Date	Jul-19-2017	Oct-17-2017	Oct-17-2017	Oct-17-2017
Rating Type	control	test wieght	moisture	YIELD
Rating Unit	percent	lbs/bu	percent	BU
Trt-Eval Interval	65 DA-A	155 DA-A	155 DA-A	at 15% M
Number of Decimals	0	1	1	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*
17	Acuron	3.44	L	3	qt/a	A	100	54.0	17.2	187
18	Harness MAX	3.82	L	75	fl oz/a	A	100	53.5	17.6	182
	18 Stinger	3	L	4	fl oz/a	A				
	18 Atrazine	90	WG	1.1	lb/a	A				
	LSD P=.05						.	0.93	2.82	30.4
	Standard Deviation						0.0	0.65	1.99	21.4
	CV						0.0	1.22	11.0	10.91

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