

**Weed control programs with Corvus in corn**

Trial ID: C06-17 Study Dir.: Burns, Stiles, Powell  
 Conducted: Campus C-26 Investigator: Christy Sprague

**Planting Date:** 6/15/17 **Row Spacing:** 30 IN  
**Variety:** Stine 9316 **No. of Reps:** 4  
**Population:** 31000 seeds/A **% OM:** 2.8  
**Soil Type:** SL sandy loam **pH:** 5.8  
**Plot Size:** 10 X 30 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	AMBEL	ragweed, common	Ambrosia artemisiifolia
3	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	ZEAMX	Corn	

**Application Description**

	A	B
<b>Application Timing:</b>	PRE	EPOS
<b>Date Treated:</b>	5/16/17	5/31/17
<b>Time Treated:</b>	11:45 AM	9:24 AM
<b>% Cloud Cover:</b>	90	15
<b>Air Temp., Unit:</b>	73 F	63 F
<b>% Relative Humidity:</b>	55	63
<b>Wind Speed/Unit/Dir:</b>	5 mph SW	11 mph W
<b>Soil Temp, Unit:</b>	60 F	59 F
<b>Leaf Moist/Dew Presence (Y/N):</b>	5	5
<b>Soil Moist:</b>	4	3

**Crop Stage at Each Application**

	A	B
<b>Crop 1 Name:</b>	ZEAMX	ZEAMX
<b>Height:</b>		4 "
<b>Stage:</b>		V1

**Weed Stage at Each Application**

	A	B
<b>Weed 1 Name:</b>	ANGR	ANGR
<b>Height:</b>		1 "
<b>Stage:</b>		1L
<b>Weed 2 Name:</b>	AMBEL	AMBEL
<b>Height:</b>		1 "
<b>Stage:</b>		2L
<b>Weed 3 Name:</b>	ABUTH	ABUTH
<b>Height:</b>		1 "
<b>Stage:</b>		1L

**Weed Density**

	1	2	3
<b>Date:</b>	5/31/17	5/31/17	5/31/17
<b>Weed Name:</b>	ANGR	AMBEL	ABUTH
<b>Density:</b>	28 FT2	2 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 GAL/AC	WATER	30 PSI
B	Cub	3.8 MPH	AIXR	11003	22 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

**Comments:**

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH		ANGR
Crop Code	ZEAMX						ZEAMX	
Rating Date	6/15/17	6/15/17	6/15/17	6/15/17	6/15/17	6/15/17	6/18/17	6/18/17
Rating Type	injury	control	control	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	15 DA-B	15 DA-B	15 DA-B	15 DA-B	15 DA-B	15 DA-B	18 DA-B	18 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	
1	Corvus	2.63 L		4 fl oz/a	A	A	0	70	100	100	98	100	0	88
1	Atrazine	90 WG		0.56 lb/a	A	A								
2	Corvus	2.63 L		5.6 fl oz/a	A	A	0	83	100	100	99	100	0	92
2	Atrazine	90 WG		0.56 lb/a	A	A								
3	Acuron	3.44 L		2 qt/a	A	A	0	88	100	100	95	100	1	95
4	Acuron	3.44 L		3 qt/a	A	A	0	92	100	100	97	100	0	98
5	Resicore	3.29 L		2 qt/a	A	A	0	93	100	100	99	99	0	98
5	Atrazine	90 WG		0.56 lb/a	A	A								
6	Resicore	3.29 L		3 qt/a	A	A	0	96	100	100	100	100	0	100
6	Atrazine	90 WG		0.56 lb/a	A	A								
7	Untreated						0	0	0	0	0	0	0	0
8	Corvus	2.63 L		4 fl oz/a	B	B	0	63	100	100	97	100	10	82
8	Roundup PowerMax	4.5 SL		12 fl oz/a	B	B								
8	Atrazine	90 WG		0.56 lb/a	B	B								
8	N-Pak AMS liquid	L		2.5 % v/v	B	B								
9	Acuron	3.44 L		2 qt/a	B	B	1	61	100	100	98	98	13	88
9	Roundup PowerMax	4.5 SL		12 fl oz/a	B	B								
9	N-Pak AMS liquid	L		2.5 % v/v	B	B								
10	Resicore	3.29 L		2 qt/a	B	B	2	64	100	100	100	100	16	85
10	Roundup PowerMax	4.5 SL		12 fl oz/a	B	B								
10	Atrazine	90 WG		0.56 lb/a	B	B								
10	N-Pak AMS liquid	L		2.5 % v/v	B	B								
	LSD P=.05						0.3	11.4	0.5	.	3.3	1.3	3.4	7.8
	Standard Deviation						0.2	7.9	0.3	0.0	2.3	0.9	2.3	5.4
	CV						84.99	11.09	0.35	0.0	2.59	1.03	59.31	6.51

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 4,9,10,13,16,19,21,22 because error mean square = 0.

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Pest Code	CHEAL	AMAPO	AMBEL	ABUTH	ZEAMX	ANGR	CHEAL	AMAPO
Crop Code								
Rating Date	6/18/17	6/18/17	6/18/17	6/18/17	7/11/17	7/11/17	7/11/17	7/11/17
Rating Type	control	control	control	control	injury	control	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	41 DA-B	41 DA-B	41 DA-B	41 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	
1	Corvus	2.63 L		4 fl oz/a	A	A	100	100	97	100	0	48	99	100
1	Atrazine	90 WG		0.56 lb/a	A	A								
2	Corvus	2.63 L		5.6 fl oz/a	A	A	100	100	99	100	0	59	100	100
2	Atrazine	90 WG		0.56 lb/a	A	A								
3	Acuron	3.44 L		2 qt/a	A	A	100	100	95	100	0	69	100	100
4	Acuron	3.44 L		3 qt/a	A	A	100	100	98	100	0	85	100	100
5	Resicore	3.29 L		2 qt/a	A	A	100	100	99	100	0	89	100	100
5	Atrazine	90 WG		0.56 lb/a	A	A								
6	Resicore	3.29 L		3 qt/a	A	A	100	100	100	100	0	88	100	100
6	Atrazine	90 WG		0.56 lb/a	A	A								
7	Untreated						0	0	0	0	0	0	0	0
8	Corvus	2.63 L		4 fl oz/a	B	B	100	100	98	100	0	49	100	100
8	Roundup PowerMax	4.5 SL		12 fl oz/a	B	B								
8	Atrazine	90 WG		0.56 lb/a	B	B								
8	N-Pak AMS liquid	L		2.5 % v/v	B	B								
9	Acuron	3.44 L		2 qt/a	B	B	100	100	99	100	0	48	100	100
9	Roundup PowerMax	4.5 SL		12 fl oz/a	B	B								
9	N-Pak AMS liquid	L		2.5 % v/v	B	B								
10	Resicore	3.29 L		2 qt/a	B	B	100	100	100	100	0	44	100	100
10	Roundup PowerMax	4.5 SL		12 fl oz/a	B	B								
10	Atrazine	90 WG		0.56 lb/a	B	B								
10	N-Pak AMS liquid	L		2.5 % v/v	B	B								
	LSD P=.05						.	.	4.5	0.5	.	19.4	1.1	.
	Standard Deviation						0.0	0.0	3.1	0.3	0.0	13.4	0.8	0.0
	CV						0.0	0.0	3.48	0.35	0.0	23.24	0.88	0.0

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Pest Code	AMBEL	ABUTH		ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code			ZEAMX					
Rating Date	7/11/17	7/11/17	7/24/17	7/24/17	7/24/17	7/24/17	7/24/17	7/24/17
Rating Type	control	control	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	41 DA-B	41 DA-B	54 DA-B	54 DA-B	54 DA-B	54 DA-B	54 DA-B	54 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	
1	Corvus	2.63 L		4 fl oz/a	A		96	100	0	38	100	100	99	100
1	Atrazine	90 WG		0.56 lb/a	A									
2	Corvus	2.63 L		5.6 fl oz/a	A		98	98	0	50	100	100	100	100
2	Atrazine	90 WG		0.56 lb/a	A									
3	Acuron	3.44 L		2 qt/a	A		93	100	0	71	100	100	98	100
4	Acuron	3.44 L		3 qt/a	A		94	100	0	73	100	100	100	99
5	Resicore	3.29 L		2 qt/a	A		100	98	0	80	100	100	100	100
5	Atrazine	90 WG		0.56 lb/a	A									
6	Resicore	3.29 L		3 qt/a	A		98	100	0	83	100	100	100	100
6	Atrazine	90 WG		0.56 lb/a	A									
7	Untreated						0	0	0	0	0	0	0	0
8	Corvus	2.63 L		4 fl oz/a	B		100	100	0	35	100	100	100	100
8	Roundup PowerMax	4.5 SL		12 fl oz/a	B									
8	Atrazine	90 WG		0.56 lb/a	B									
8	N-Pak AMS liquid	L		2.5 % v/v	B									
9	Acuron	3.44 L		2 qt/a	B		100	100	0	30	100	100	100	100
9	Roundup PowerMax	4.5 SL		12 fl oz/a	B									
9	N-Pak AMS liquid	L		2.5 % v/v	B									
10	Resicore	3.29 L		2 qt/a	B		100	100	0	35	100	100	100	100
10	Roundup PowerMax	4.5 SL		12 fl oz/a	B									
10	Atrazine	90 WG		0.56 lb/a	B									
10	N-Pak AMS liquid	L		2.5 % v/v	B									
	LSD P=.05						5.4	3.1	.	15.7	.	.	2.4	1.1
	Standard Deviation						3.8	2.1	0.0	10.9	0.0	0.0	1.7	0.8
	CV						4.28	2.36	0.0	21.94	0.0	0.0	1.86	0.88

\* Adjusted means

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