

Weed control with SIPCAM-SA-0660001 programs in corn

Trial ID: C05-17 Study Dir.: Burns, Stiles, Powell
 Conducted: Campus C-25 Investigator: Christy Sprague

Planting Date: 5/15/17 **Row Spacing:** 30 IN
Variety: Stine 9316 **No. of Reps:** 4
Population: 31000 Seeds/A **% OM:** 3.1
Soil Type: L loam **pH:** 6.6
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	AMBEL	ragweed, common	Ambrosia artemisiifolia
3	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	ZEAMX	Corn	

Application Description

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

Crop Stage at Each Application

	A	B
Crop 1 Name:	ZEAMX	ZEAMX
Height:		4 "
Stage:		V1

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height:		1 "
Stage:		1L
Weed 2 Name:	AMBEL	AMBEL
Height:		1 "
Stage:		2L
Weed 3 Name:	ABUTH	ABUTH
Height:		1 "
Stage:		1L

Weed Density

	1	2	3
Date:	5/31/17	5/31/17	5/31/17
Weed Name:	ANGR	AMBEL	ABUTH
Density:	1 FT2	2.25 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: Roundup PowerMax at 32 fl oz/A + AMS was broadcast over the entire study on June 21.

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Pest Code	ANGR CHEAL AMAPO AMBEL ABUTH						ANGR CHEAL		
Crop Code	ZEAMX						ZEAMX		
Rating Date	6/8/17	6/8/17	6/8/17	6/8/17	6/18/17	6/18/17	6/19/17	6/19/17	6/19/17
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	8 DA-B	8 DA-B	8 DA-B	8 DA-B	8 DA-B	8 DA-B	19 DA-B	19 DA-B	19 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*	*
1	SA-0660001	4.17 L	L	0.875 pt/a	pt/a	A	0	80	100	100	74	81	0	78 84
2	SA-0660001	4.17 L	L	1.25 pt/a	pt/a	A	0	84	99	100	81	87	0	85 94
3	SA-0660001	4.17 L	L	1.44 pt/a	pt/a	A	0	85	100	100	85	85	0	83 94
4	SA-0660001	4.17 L	L	1.94 pt/a	pt/a	A	0	86	98	99	89	92	0	83 89
5	SA-0660001	4.17 L	L	1.44 pt/a	pt/a	A	0	100	99	100	87	90	0	100 97
	5 Stalwart C	7.8 L	L	1.69 pt/a	pt/a	A								
6	SA-0660001	4.17 L	L	1.44 pt/a	pt/a	A	0	100	100	100	99	100	0	99 100
	6 Stalwart C	7.8 L	L	1.68 pt/a	pt/a	A								
	6 Bellum	4 L	L	3 fl oz/a	fl oz/a	A								
7	SA-0660001	4.17 L	L	1.44 pt/a	pt/a	B	0	100	100	100	99	100	0	100 99
	7 Roundup PowerMax	4.5 SL	SL	32 fl oz/a	fl oz/a	B								
	7 N-Pak AMS liquid	L	L	2.5 % v/v	% v/v	B								
8	SA-0660001	4.17 L	L	1.44 pt/a	pt/a	A	0	85	97	100	93	89	0	83 80
	8 2,4-D amine 4	3.8 SL	SL	1 pt/a	pt/a	A								
9	Untreated						0	0	0	0	0	0	0	0 0
10	Atrazine	90 WG	WG	1.1 lb/a	lb/a	A	0	69	100	100	88	87	0	70 98
11	Atrazine	90 WG	WG	1.8 lb/a	lb/a	A	0	76	100	100	94	96	0	79 97
12	Atrazine	90 WG	WG	2.2 lb/a	lb/a	A	0	83	100	100	97	96	0	85 100
13	Atrazine	90 WG	WG	1.8 lb/a	lb/a	A	0	100	100	100	97	94	0	100 99
	13 Stalwart C	7.8 SC	SC	1.69 pt/a	pt/a	A								
14	Atrazine	90 WG	WG	1.8 lb/a	lb/a	A	0	100	100	100	100	100	0	100 100
	14 Stalwart C	7.8 L	L	1.69 pt/a	pt/a	A								
	14 Bellum	4 L	L	3 fl oz/a	fl oz/a	A								
15	Atrazine	90 WG	WG	1.8 lb/a	lb/a	B	0	99	100	100	96	99	0	97 100
	15 Roundup PowerMax	4.5 SL	SL	2 pt/a	pt/a	B								
	15 N-Pak AMS liquid	L	L	2.5 % v/v	% v/v	B								
16	Atrazine	90 WG	WG	1.8 lb/a	lb/a	A	0	94	100	100	99	96	0	88 99
	16 2,4-D amine 4	3.8 SL	SL	1 pt/a	pt/a	A								
LSD P=.05							.	12.7	2.8	1.1	4.9	7.8	.	11.8 10.7
Standard Deviation							0.0	8.9	2.0	0.8	3.5	5.5	0.0	8.3 7.5
CV							0.0	10.66	2.12	0.81	4.01	6.28	0.0	9.97 8.41

* Adjusted means
 Could not calculate LSD (% mean diff) for columns 1,7,13,19 because error mean square = 0.

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Pest Code	AMAPO	AMBEL	ABUTH		ANGR	CHEAL	AMAPO	AMBEL
Crop Code				ZEAMX				
Rating Date	6/19/17	6/19/17	6/19/17	7/16/17	7/16/17	7/16/17	7/16/17	7/16/17
Rating Type	control	control	control	injury	injury	injury	injury	injury
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	19 DA-B	19 DA-B	19 DA-B	46 DA-B	46 DA-B	46 DA-B	46 DA-B	46 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Appl Code	*	*	*	*	*	*	*
1	SA-0660001	4.17 L		0.875 pt/a		A	79	58	76	0	99	99	100
2	SA-0660001	4.17 L		1.25 pt/a		A	95	70	88	0	99	99	100
3	SA-0660001	4.17 L		1.44 pt/a		A	95	70	86	0	99	100	100
4	SA-0660001	4.17 L		1.94 pt/a		A	93	88	90	0	100	100	100
5	SA-0660001	4.17 L		1.44 pt/a		A	100	88	91	0	100	100	100
5	Stalwart C	7.8 L		1.69 pt/a		A							
6	SA-0660001	4.17 L		1.44 pt/a		A	100	97	100	0	100	100	100
6	Stalwart C	7.8 L		1.68 pt/a		A							
6	Bellum	4 L		3 fl oz/a		A							
7	SA-0660001	4.17 L		1.44 pt/a		B	100	98	99	0	100	100	100
7	Roundup PowerMax	4.5 SL		32 fl oz/a		B							
7	N-Pak AMS liquid	L		2.5 % v/v		B							
8	SA-0660001	4.17 L		1.44 pt/a		A	94	85	88	0	97	99	100
8	2,4-D amine 4	3.8 SL		1 pt/a		A							
9	Untreated						0	0	0	0	0	0	0
10	Atrazine	90 WG		1.1 lb/a		A	96	86	88	0	100	99	100
11	Atrazine	90 WG		1.8 lb/a		A	100	90	92	0	98	99	100
12	Atrazine	90 WG		2.2 lb/a		A	100	94	94	0	99	100	100
13	Atrazine	90 WG		1.8 lb/a		A	100	95	91	0	100	100	100
13	Stalwart C	7.8 SC		1.69 pt/a		A							
14	Atrazine	90 WG		1.8 lb/a		A	100	100	100	0	100	100	100
14	Stalwart C	7.8 L		1.69 pt/a		A							
14	Bellum	4 L		3 fl oz/a		A							
15	Atrazine	90 WG		1.8 lb/a		B	100	97	98	0	100	100	100
15	Roundup PowerMax	4.5 SL		2 pt/a		B							
15	N-Pak AMS liquid	L		2.5 % v/v		B							
16	Atrazine	90 WG		1.8 lb/a		A	100	95	93	0	100	100	100
16	2,4-D amine 4	3.8 SL		1 pt/a		A							
	LSD P=.05						7.5	10.7	6.5	.	1.5	1.6	0.8
	Standard Deviation						5.3	7.5	4.6	0.0	1.0	1.2	0.6
	CV						5.84	9.16	5.35	0.0	1.1	1.24	0.59

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Pest Code	ABUTH	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	ZEAMX					
Rating Date	7/16/17	7/26/17	7/26/17	7/26/17	7/26/17	7/26/17
Rating Type	injury	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	46 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Appl Code	*	*	*	*	*	*
1	SA-0660001	4.17 L		0.875 pt/a		A	98	0	98	99	98	98
2	SA-0660001	4.17 L		1.25 pt/a		A	99	0	98	98	96	100
3	SA-0660001	4.17 L		1.44 pt/a		A	100	0	99	99	98	99
4	SA-0660001	4.17 L		1.94 pt/a		A	97	0	97	98	99	100
5	SA-0660001	4.17 L		1.44 pt/a		A	99	0	100	100	99	99
5	Stalwart C	7.8 L		1.69 pt/a		A						
6	SA-0660001	4.17 L		1.44 pt/a		A	99	0	100	100	100	100
6	Stalwart C	7.8 L		1.68 pt/a		A						
6	Bellum	4 L		3 fl oz/a		A						
7	SA-0660001	4.17 L		1.44 pt/a		B	100	0	98	98	100	98
7	Roundup PowerMax	4.5 SL		32 fl oz/a		B						
7	N-Pak AMS liquid	L		2.5 % v/v		B						
8	SA-0660001	4.17 L		1.44 pt/a		A	98	0	95	96	100	100
8	2,4-D amine 4	3.8 SL		1 pt/a		A						
9	Untreated						0	0	0	0	0	0
10	Atrazine	90 WG		1.1 lb/a		A	98	0	99	96	100	96
11	Atrazine	90 WG		1.8 lb/a		A	99	0	95	96	98	99
12	Atrazine	90 WG		2.2 lb/a		A	98	0	98	96	97	99
13	Atrazine	90 WG		1.8 lb/a		A	97	0	100	100	100	100
13	Stalwart C	7.8 SC		1.69 pt/a		A						
14	Atrazine	90 WG		1.8 lb/a		A	100	0	100	100	100	99
14	Stalwart C	7.8 L		1.69 pt/a		A						
14	Bellum	4 L		3 fl oz/a		A						
15	Atrazine	90 WG		1.8 lb/a		B	99	0	98	100	100	100
15	Roundup PowerMax	4.5 SL		2 pt/a		B						
15	N-Pak AMS liquid	L		2.5 % v/v		B						
16	Atrazine	90 WG		1.8 lb/a		A	99	0	99	98	99	99
16	2,4-D amine 4	3.8 SL		1 pt/a		A						
LSD P=.05							2.7	.	3.5	3.9	3.0	2.5
Standard Deviation							1.9	0.0	2.4	2.7	2.1	1.7
CV							2.02	0.0	2.65	2.97	2.28	1.89

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