

Weed control with SA-0660001 programs in corn

Trial ID: C10-18 Study Dir.: Burns, Stiles, Powell, Craft
 Conducted: Campus T-17 Investigator: Erin Burns

Planting Date: May-29-2018 **Row Spacing:** 30 IN
Variety: DKC 48-56 SS **No. of Reps:** 4
Population: 34600 seeds/A **% OM:** 2.7
Soil Type: LOAM **pH:** 5.8
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

Application Timing: A PRE
Date Treated: Jun-1-2018
Time Treated: 8:45 AM
% Cloud Cover: 80
Air Temp., Unit: 76 F
% Relative Humidity: 57
Wind Speed/Unit/Dir: 2.1 MPH SW
Soil Temp, Unit: 72 F
Leaf Moist/Dew Presence (Y/N): 4
Soil Moist: 2

Crop Stage at Each Application

Crop 1 Name: A ZEAMX
Height:
Stage:

Weed Stage at Each Application

Weed 1 Name: A 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

Date:	1	2	3	4	5
	Jun-1-2018	Jun-1-2018	Jun-1-2018	Jun-1-2018	Jun-1-2018
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Density:	1 FT2	1 FT2	1 FT2	1 FT2	2 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 GPA	WATER	30 PSI

Comments:

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH		ANGR				
Crop Code	ZEAMX						ZEAMX					
Rating Date	Jun-12-2018	Jun-12-2018	Jun-12-2018	Jun-12-2018	Jun-12-2018	Jun-12-2018	Jun-26-2018	Jun-26-2018				
Rating Type	injury	control	control	control	control	control	injury	control				
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent				
Trt-Eval Interval	11 DA-A	11 DA-A	11 DA-A	11 DA-A	11 DA-A	11 DA-A	25 DA-A	25 DA-A				
Trt No.	Treatment Name	Rate	Appl Unit	Code								
1	SA-0660001	0.96 pt/a	A		0	76	100	100	88	99	0	76
2	SA-0660001	1.44 pt/a	A		0	85	100	100	90	99	0	86
3	SA-0660001	1.92 pt/a	A		0	95	100	100	93	96	0	86
4	SA-0660001	2.88 pt/a	A		0	95	100	100	97	100	0	90
5	SA-0660001	1.44 pt/a	A		0	99	100	100	99	99	0	100
5	Stalwart C	1.67 pt/a	A									
6	Atrazine	0.55 lb/a	A		0	98	100	100	93	96	0	88
7	Atrazine	0.825 lb/a	A		0	85	100	100	78	99	0	80
8	Untreated				0	0	0	0	0	0	0	0
9	Atrazine	1.1 lb/a	A		0	98	100	100	87	99	0	95
10	Atrazine	1.65 lb/a	A		0	98	100	100	97	100	0	93
11	Atrazine	1.65 lb/a	A		0	100	100	100	95	100	0	100
11	Stalwart C	1.67 pt/a	A									
12	Stalwart 3W	3 qt/a	A		0	100	100	100	99	100	0	100
13	SA-0070128	3 qt/a	A		0	100	100	100	100	100	0	100
14	SA-0070129	3 qt/a	A		0	100	100	100	100	100	0	100
LSD P=.05					.	18.4	.	.	16.6	3.6	.	12.3
Standard Deviation					0.0	12.9	0.0	0.0	11.6	2.5	0.0	8.6
CV					0.0	14.68	0.0	0.0	13.33	2.74	0.0	10.06

Could not calculate LSD (% mean diff) for columns 1,3,4,7,10,13 because error mean square = 0.

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Pest Code	CHEAL	AMAPO	AMBEL	ABUTH	ZEAMX	ANGR	CHEAL	AMAPO	AMBEL				
Crop Code													
Rating Date	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018				
Rating Type	control	control	control	control	injury	control	control	control	control				
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent	percent				
Trit-Eval Interval	25 DA-A	25 DA-A	25 DA-A	25 DA-A	38 DA-A	38 DA-A	38 DA-A	38 DA-A	38 DA-A				
Trit No.	Treatment Name	Rate	Appl Unit	Code									
1	SA-0660001	0.96 pt/a	A		100	100	83	91	0	50	94	100	73
2	SA-0660001	1.44 pt/a	A		100	100	88	95	0	81	98	100	80
3	SA-0660001	1.92 pt/a	A		100	100	90	95	0	81	100	100	81
4	SA-0660001	2.88 pt/a	A		100	100	96	96	0	86	100	100	100
5	SA-0660001	1.44 pt/a	A		100	100	98	95	0	100	100	100	99
5	Stalwart C	1.67 pt/a	A										
6	Atrazine	0.55 lb/a	A		100	100	86	91	0	85	94	96	78
7	Atrazine	0.825 lb/a	A		98	100	75	88	0	69	95	94	78
8	Untreated				0	0	0	0	0	0	0	0	0
9	Atrazine	1.1 lb/a	A		99	100	80	89	0	80	95	95	78
10	Atrazine	1.65 lb/a	A		98	100	91	94	0	93	91	95	89
11	Atrazine	1.65 lb/a	A		100	100	89	96	0	100	100	100	85
11	Stalwart C	1.67 pt/a	A										
12	Stalwart 3W	3 qt/a	A		100	100	100	100	0	100	100	100	100
13	SA-0070128	3 qt/a	A		100	100	100	100	0	100	100	100	100
14	SA-0070129	3 qt/a	A		100	100	100	100	0	100	100	100	100
LSD P=.05					2.9	.	17.3	7.2	.	20.0	9.2	6.8	19.1
Standard Deviation					2.1	0.0	12.1	5.1	0.0	14.0	6.5	4.8	13.4
CV					2.23	0.0	14.46	5.76	0.0	17.38	7.15	5.23	16.43

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Pest Code ABUTH
 Crop Code
 Rating Date Jul-9-2018
 Rating Type control
 Rating Unit percent
 Trt-Eval Interval 38 DA-A

Trt No.	Treatment Name	Rate	Appl Unit	Code
1	SA-0660001	0.96 pt/a	A	75
2	SA-0660001	1.44 pt/a	A	90
3	SA-0660001	1.92 pt/a	A	88
4	SA-0660001	2.88 pt/a	A	78
5	SA-0660001	1.44 pt/a	A	90
5	Stalwart C	1.67 pt/a	A	
6	Atrazine	0.55 lb/a	A	83
7	Atrazine	0.825 lb/a	A	73
8	Untreated			0
9	Atrazine	1.1 lb/a	A	80
10	Atrazine	1.65 lb/a	A	90
11	Atrazine	1.65 lb/a	A	94
11	Stalwart C	1.67 pt/a	A	
12	Stalwart 3W	3 qt/a	A	100
13	SA-0070128	3 qt/a	A	100
14	SA-0070129	3 qt/a	A	100
LSD P=.05				16.2
Standard Deviation				11.4
CV				13.96

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