

Comparison of PRE residual herbicides for length of control

Trial ID: C11-18 Study Dir.: Burns, Stiles, Powell, Craft
 Conducted: Campus T-16 Investigator: Erin Burns

Planting Date: May-30-2018 **Row Spacing:** 30 IN
Variety: DKC48-55 SS **No. of Reps:** 4
Population: 34600 seeds/A **% OM:** 2.5
Soil Type: LOAM **pH:** 5.6
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	CHEAL	common lambsquarters	Chenopodium album
3	AMAPO	Powell amaranth	Amaranthus powellii
4	AMBEL	Common ragweed	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: 7:15 PM
% Cloud Cover: 70
Air Temp., Unit: 76 F
% Relative Humidity: 68.5
Wind Speed/Unit/Dir: 4.5 MPH NE
Soil Temp, Unit: 73 F
Leaf Moist/Dew Presence (Y/N): 4
Soil Moist: 4

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:

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A		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-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-28-2018	Jun-28-2018		
Rating Type		injury	control	control	control	control	control	injury	control		
Rating Unit		percent	percent	percent	percent	percent	percent	percent	percent		
Trt-Eval Interval		12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A	27 DA-A	27 DA-A		
Trt No.	Treatment Name	Rate	Appl Unit	Code							
1	Corvus	4.5 fl oz/a	A		0	100	100	100	100	0	100
1	Atrazine	0.825 lb/a	A								
2	Corvus	4 fl oz/a	A		0	100	100	100	100	0	100
2	Atrazine	0.825 lb/a	A								
3	Acuron	2 qt/a	A		0	100	100	100	100	0	100
4	Acuron	1.5 qt/a	A		0	100	100	100	100	0	100
5	Lumax	2.19 qt/a	A		0	100	100	100	100	0	100
6	Lumax	1.7 qt/a	A		0	100	100	100	100	0	100
7	Untreated				0	0	0	0	0	0	0
8	Resicore	2 qt/a	A		0	99	100	100	100	0	98
8	Atrazine	0.825 lb/a	A								
9	Resicore	1.5 qt/a	A		0	100	100	100	100	0	100
9	Atrazine	0.825 lb/a	A								
10	Harness MAX	1.56 qt/a	A		0	100	100	100	100	0	100
10	Atrazine	0.825 lb/a	A								
11	Harness MAX	1.17 qt/a	A		0	100	100	100	100	0	100
11	Atrazine	0.825 lb/a	A								
	LSD P=.05				.	1.1	.	0.4	.	.	2.2
	Standard Deviation				0.0	0.8	0.0	0.3	0.0	0.0	1.5
	CV				0.0	0.83	0.0	0.33	0.0	0.0	1.71

Could not calculate LSD (% mean diff) for columns 1,3,5,6,7,11,12,13,16,17,18 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-28-2018	Jun-28-2018	Jun-28-2018	Jun-28-2018	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
Trt-Eval Interval		27 DA-A	27 DA-A	27 DA-A	27 DA-A	38 DA-A	38 DA-A	38 DA-A	38 DA-A	38 DA-A
Trt No.	Treatment Name	Rate	Appl Unit	Code						
1	Corvus	4.5 fl oz/a	A		100	100	100	100	100	100
1	Atrazine	0.825 lb/a	A				0	100	100	100
2	Corvus	4 fl oz/a	A		100	100	100	100	100	100
2	Atrazine	0.825 lb/a	A				0	100	100	100
3	Acuron	2 qt/a	A		100	100	100	100	100	100
4	Acuron	1.5 qt/a	A		100	100	100	100	100	100
5	Lumax	2.19 qt/a	A		100	100	100	100	100	100
6	Lumax	1.7 qt/a	A		100	100	100	100	100	100
7	Untreated				0	0	0	0	0	0
8	Resicore	2 qt/a	A		100	100	100	100	100	100
8	Atrazine	0.825 lb/a	A				0	100	100	100
9	Resicore	1.5 qt/a	A		100	100	100	100	100	100
9	Atrazine	0.825 lb/a	A				0	100	100	100
10	Harness MAX	1.56 qt/a	A		100	100	100	100	100	100
10	Atrazine	0.825 lb/a	A				0	100	100	100
11	Harness MAX	1.17 qt/a	A		100	100	100	100	100	100
11	Atrazine	0.825 lb/a	A				0	100	100	100
	LSD P=.05				0.6	0.7	.	0.6	0.4	.
	Standard Deviation				0.4	0.5	0.0	0.4	0.3	0.0
	CV				0.45	0.57	0.0	0.45	0.33	0.0

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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	Unit	Appl Code	
1	Corvus	4.5 fl oz/a	A		100
1	Atrazine	0.825 lb/a	A		
2	Corvus	4 fl oz/a	A		100
2	Atrazine	0.825 lb/a	A		
3	Acuron	2 qt/a	A		100
4	Acuron	1.5 qt/a	A		100
5	Lumax	2.19 qt/a	A		100
6	Lumax	1.7 qt/a	A		100
7	Untreated				0
8	Resicore	2 qt/a	A		100
8	Atrazine	0.825 lb/a	A		
9	Resicore	1.5 qt/a	A		100
9	Atrazine	0.825 lb/a	A		
10	Harness MAX	1.56 qt/a	A		100
10	Atrazine	0.825 lb/a	A		
11	Harness MAX	1.17 qt/a	A		100
11	Atrazine	0.825 lb/a	A		
LSD P=.05					.
Standard Deviation					0.0
CV					0.0

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