

Weed control programs with Anthem Maxx in corn

Trial ID: C06-19 Study Dir.: Burns, Craft
 Conducted: Campus C-27 Investigator: Erin Burns

Planting Date: May-15-2019 **Row Spacing:** 30 IN
Variety: P9840AM **No. of Reps:** 4
Population: 32300 S/A **% OM:** 2.5
Soil Type: SL sandy loam **pH:** 6.1
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plowed: spring soil finished twice
Fertilizer: 300 lbs/A urea incorporated
 157 lbs/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

	A	B	C
Application Timing:	PRE	EPOS	POST
Date Treated:	May-16-2019	Jun-12-2019	Jun-23-2019
Time Treated:	9:20 AM	11:08 AM	1:30 PM
% Cloud Cover:	70	30	40
Air Temp., Unit:	63.5 F	74.5 F	86 F
% Relative Humidity:	56.3	41.6	43.6
Wind Speed/Unit/Dir:	2.3 MPH S	8.5 MPH SW	5.2 MPH SW
Soil Temp, Unit:	60 F	65 F	80 F
Leaf Moist/Dew Presence (Y/N):		N	N
Soil Moist:	5	2	2

Crop Stage at Each Application

	A	B	C
Crop 1 Name:	ZEAMX	ZEAMX	ZEAMX
Height:			
Stage:	PRE	V2	V5

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	ANGR	ANGR	ANGR
Height:		1-4 IN (2)	4 IN
Stage:		4-6 L	4-6 L
Weed 2 Name:	CHEAL	CHEAL	CHEAL
Height:		1.5 IN	2-6 IN (4)
Stage:		6 L	7 L
Weed 3 Name:	AMAPO	AMAPO	AMAPO
Height:		2 IN	1-4 IN (3)
Stage:		6 L	6 L
Weed 4 Name:	AMBEL	AMBEL	AMBEL
Height:		2 IN	3 IN
Stage:		6 L	9 L
Weed 5 Name:	ABUTH	ABUTH	ABUTH
Height:		0.5 IN	2 IN
Stage:		4 L	4 L

Weed Density

	1	2	3	4	5
Date:	Jun-12-2019	Jun-12-2019	Jun-12-2019	Jun-12-2019	Jun-12-2019
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Density:	24 FT2	2 FT2	1 FT2	4 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 GPA	WATER	30 PSI
B	BKPK	3 MPH	AIXR	11003	24 "	20 "	100 "	19 GPA	WATER	32 PSI
C	CUB	3.8 MPH	AIXR	11003	24 "	20 "	100 "	19 GPA	WATER	30 PSI

Comments:

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Pest Code			ANGR	CHEAL	AMAPO	AMBEL	ABUTH		
Crop Type, Code	ZEAMX	-						ZEAMX	
Rating Date	May-31-2019	May-31-2019	May-31-2019	May-31-2019	May-31-2019	May-31-2019	May-31-2019	Jun-12-2019	
Rating Type	injury	control	control	control	control	control	control	injury	
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent	
Trt-Eval Interval	15 DA-A	15 DA-A	15 DA-A	15 DA-A	15 DA-A	15 DA-A	15 DA-A	27 DA-A	
Trt No.	Treatment Name	Rate	Appl Code						
		Rate Unit							
1	Anthem Maxx	4 fl oz/a	A	0.0	100.0	100.0	100.0	100.0	0.0
	1 Balance Flexx	3 fl oz/a	A						
	1 Atrazine	1.65 lb/a	A						
2	Anthem Maxx	4 fl oz/a	A	0.0	100.0	100.0	100.0	100.0	0.0
	2 Callisto	3 fl oz/a	A						
	2 Atrazine	1.65 lb/a	A						
3	Corvus	5.6 fl oz/a	A	0.0	100.0	100.0	100.0	100.0	0.0
	3 Atrazine	1.65 lb/a	A						
4	Acuron	3 qt/a	A	0.0	100.0	100.0	100.0	100.0	0.0
5	Resicore	2.5 qt/a	A	0.0	100.0	100.0	100.0	100.0	0.0
6	Untreated			0.0	0.0	0.0	0.0	0.0	0.0
7	Anthem Maxx	4 fl oz/a	B						
	7 Callisto	3 fl oz/a	B						
	7 Atrazine	1.65 lb/a	B						
	7 Roundup PowerMax	22 fl oz/a	B						
8	Halex GT	3.6 pt/a	B						
	8 Atrazine	1.1 lb/a	B						
9	Anthem Maxx	4 fl oz/a	A	0.0	100.0	100.0	100.0	100.0	0.0
	9 Callisto	3 fl oz/a	A						
	9 Atrazine	1.65 lb/a	A						
	9 Status	4 oz/a	C						
	9 Roundup PowerMax	22 fl oz/a	C						
10	Bicep II Magnum	1.6 qt/a	A	0.0	100.0	100.0	100.0	56.3	67.5
	10 Acuron	3 qt/a	C						
	10 Roundup PowerMax	22 fl oz/a	C						
LSD P=.05				0.0	0.0	0.0	0.0	4.44	3.36
Standard Deviation				0.0	0.0	0.0	0.0	3.02	2.28
CV				0.0	0.0	0.0	0.0	3.68	2.74

Could not calculate LSD (% mean diff) for columns 1,2,3,4,7,8,9,10,13,16,18 because error mean square = 0.

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH	ZEAMX	ANGR	CHEAL
Crop Type, Code									
Rating Date		Jun-12-2019	Jun-12-2019	Jun-12-2019	Jun-12-2019	Jun-12-2019	Jul-12-2019	Jul-12-2019	Jul-12-2019
Rating Type		control	control	control	control	control	injury	control	control
Rating Unit		percent	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval		27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	57 DA-A	57 DA-A	57 DA-A
Trt No.	Treatment Name	Rate	Appl						
		Rate Unit	Code						
1	Anthem Maxx	4 fl oz/a	A	100.0	100.0	100.0	100.0	100.0	99.5
	1 Balance Flexx	3 fl oz/a	A						
	1 Atrazine	1.65 lb/a	A						
2	Anthem Maxx	4 fl oz/a	A	100.0	100.0	100.0	100.0	98.8	98.8
	2 Callisto	3 fl oz/a	A						
	2 Atrazine	1.65 lb/a	A						
3	Corvus	5.6 fl oz/a	A	100.0	100.0	100.0	100.0	90.0	100.0
	3 Atrazine	1.65 lb/a	A						
4	Acuron	3 qt/a	A	100.0	100.0	100.0	100.0	100.0	100.0
5	Resicore	2.5 qt/a	A	100.0	100.0	100.0	100.0	95.3	100.0
6	Untreated			0.0	0.0	0.0	0.0	0.0	0.0
7	Anthem Maxx	4 fl oz/a	B				0.0	100.0	100.0
	7 Callisto	3 fl oz/a	B						
	7 Atrazine	1.65 lb/a	B						
	7 Roundup PowerMax	22 fl oz/a	B						
8	Halex GT	3.6 pt/a	B				0.0	97.8	100.0
	8 Atrazine	1.1 lb/a	B						
9	Anthem Maxx	4 fl oz/a	A	100.0	100.0	100.0	100.0	100.0	100.0
	9 Callisto	3 fl oz/a	A						
	9 Atrazine	1.65 lb/a	A						
	9 Status	4 oz/a	C						
	9 Roundup PowerMax	22 fl oz/a	C						
10	Bicep II Magnum	1.6 qt/a	A	100.0	100.0	100.0	52.5	68.8	100.0
	10 Acuron	3 qt/a	C						
	10 Roundup PowerMax	22 fl oz/a	C						
LSD P=.05				.	.	.	4.98	3.27	2.35
Standard Deviation				0.00	0.00	0.00	3.39	2.22	1.62
CV				0.0	0.0	0.0	4.15	2.66	1.83

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Pest Code		AMAPO	AMBEL	ABUTH	ZEAMX	ZEAMX	ZEAMX		
Crop Type, Code									
Rating Date		Jul-12-2019	Jul-12-2019	Jul-12-2019	Oct-15-2019	Oct-15-2019	Oct-15-2019		
Rating Type		control	control	control	test weight	moisture	YIELD		
Rating Unit		percent	percent	percent	lbs/bu	percent	BU		
Trt-Eval Interval		57 DA-A	57 DA-A	57 DA-A	114 DA-C	114 DA-C	at 15% M		
Trt No.	Treatment Name	Rate	Appl						
		Rate Unit	Code						
1	Anthem Maxx	4 fl oz/a	A	100.0	100.0	100.0	53.93	22.28	154.8
	1 Balance Flexx	3 fl oz/a	A						
	1 Atrazine	1.65 lb/a	A						
2	Anthem Maxx	4 fl oz/a	A	100.0	98.8	100.0	53.35	23.45	146.2
	2 Callisto	3 fl oz/a	A						
	2 Atrazine	1.65 lb/a	A						
3	Corvus	5.6 fl oz/a	A	100.0	97.5	100.0	54.73	22.38	162.4
	3 Atrazine	1.65 lb/a	A						
4	Acuron	3 qt/a	A	100.0	100.0	100.0	54.05	22.78	150.6
5	Resicore	2.5 qt/a	A	100.0	100.0	100.0	53.83	23.85	147.3
6	Untreated			0.0	0.0	0.0	53.98	22.78	62.6
7	Anthem Maxx	4 fl oz/a	B	100.0	100.0	100.0	54.50	20.83	161.5
	7 Callisto	3 fl oz/a	B						
	7 Atrazine	1.65 lb/a	B						
	7 Roundup PowerMax	22 fl oz/a	B						
8	Halex GT	3.6 pt/a	B	100.0	100.0	100.0	54.60	20.73	153.0
	8 Atrazine	1.1 lb/a	B						
9	Anthem Maxx	4 fl oz/a	A	100.0	100.0	100.0	54.65	22.13	147.3
	9 Callisto	3 fl oz/a	A						
	9 Atrazine	1.65 lb/a	A						
	9 Status	4 oz/a	C						
	9 Roundup PowerMax	22 fl oz/a	C						
10	Bicep II Magnum	1.6 qt/a	A	100.0	100.0	100.0	53.20	23.68	145.6
	10 Acuron	3 qt/a	C						
	10 Roundup PowerMax	22 fl oz/a	C						
LSD P=.05				.	2.45	.	1.257	2.376	17.82
Standard Deviation				0.00	1.69	0.00	0.866	1.638	12.28
CV				0.0	1.88	0.0	1.6	7.28	8.58

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