

MSU Weed Science Research Program

ATRAZINE MIX COMPARISON, 2009.

Trial ID: C2409
 Conducted: Campus

Study Dir.: Andy Chomas
 Investigator: Wesley Everman

Date Planted: 5/7/09 **Row Spacing:** 30 IN
Variety: DEKALB 46-60 **No. of Reps:** 3
Population: 31,000 S/A **% OM:** 3.4
Soil Type: Loam **pH:** 6.2
Plot Size: 10 X 35 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Fall Chisel. Spring Field Cultivated 2X
Fertilizer: 300 lbs/A 46-0-0 Broadcast. 125 lbs/A 19-19-19 in Row at Planting.

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ANGR	Annual Grass species	
2.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	AMARE	PIGWEEED, REDROOT	AMARANTHUS RETROFLEXUS L.
4.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
Crop	Code	Common Name	
1.	ZEAMX	CORN, FIELD	

Application Description

A

Application Timing: POST
Date Treated: 6/15/09
Time Treated: 5:23 PM
% Cloud Cover: 40
Air Temp., Unit: 83 F
% Relative Humidity: 30
Wind Speed/Unit/Dir: 4 mph N
Soil Temp., Unit: 81 F
Soil/Leaf Surface M: 5
Soil Moist (1=w 5=d): 5

Crop Stage at Each Application

A

Crop Name: ZEAMX
Height (In.): 10-12(11)
Stage (L): 8:V5-6(5)

Weed Stage at Each Application

A

Weed 1 Name: ANGR
Height (In.): .3-12(10)
Stage (L): 1-6(5)
Weed 2 Name: CHEAL
Height (In.): .3-8(7)
Stage (L): cot-5(3)
Weed 3 Name: AMARE
Height (In.): 5-12(9)
Stage (L): 4-8(6)
Weed 4 Name: ABUTH
Height (In.): .3-7(5)
Stage (L): 1-4(4)

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom				
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI	
A	CUB	3.5	FF	8003	28"	20"	100"	20	H2O	30	

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Weed Code		ANGR	CHEAL	AMARE	ABUTH		ANGR	CHEAL	AMARE
Crop Code	ZEAMX					ZEAMX			
Rating Data Type	injury	control	control	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent	percent
Rating Date	6/23/09	6/23/09	6/23/09	6/23/09	6/23/09	6/29/09	6/29/09	6/29/09	6/29/09
Trt-Eval Interval	8 DAPO	8 DAPO	8 DAPO	8 DAPO	8 DAPO	14 DAPO	14 DAPO	14 DAPO	14 DAPO
ARM Action Codes									

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7	8	9	
1	Atrazine	4	L	1	lb ai/a	POST	0	0	73	15	0	0	0	83	67	
1	Herbimax		L	1	% v/v	POST										
2	Atrazine	4	L	1.5	lb ai/a	POST	0	2	88	18	0	0	0	90	83	
2	Herbimax		L	1	% v/v	POST										
3	Atrazine 90 DF	90	DF	1	lb ai/a	POST	0	3	67	20	0	0	0	78	73	
3	Herbimax		L	1	% v/v	POST										
4	Atrazine 90 DF	90	DF	1.5	lb ai/a	POST	0	7	82	8	0	0	0	88	80	
4	Herbimax		L	1	% v/v	POST										
5	ATR tech	97.2	DF	1	lb ai/a	POST	0	3	82	10	0	0	0	84	67	
5	N-Go		L	1	% v/v	POST										
6	ATR tech	97.2	DF	1.5	lb ai/a	POST	0	5	82	12	0	0	0	87	65	
6	N-Go		L	1	% v/v	POST										
LSD (P=.05)							0.0	6.8	18.2	6.6	0.0	0.0	0.0	8.6	18.0	
Standard Deviation							0.0	3.8	10.0	3.6	0.0	0.0	0.0	0.0	4.7	9.9
CV							0.0	112.92	12.71	26.02	0.0	0.0	0.0	0.0	5.54	13.61

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Weed Code		ANGR	CHEAL	AMARE	ABUTH
Crop Code	ZEAMX				
Rating Data Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	7/7/09	7/7/09	7/7/09	7/7/09	7/7/09
Trt-Eval Interval	22 DAPO	22 DAPO	22 DAPO	22 DAPO	22 DAPO

ARM Action Codes

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	10	11	12	13	14
1	Atrazine	4	L	1	lb ai/a	POST	2	0	93	68	88
1	Herbimax		L	1	% v/v	POST					
2	Atrazine	4	L	1.5	lb ai/a	POST	3	0	98	85	97
2	Herbimax		L	1	% v/v	POST					
3	Atrazine 90 DF	90	DF	1	lb ai/a	POST	2	0	94	83	97
3	Herbimax		L	1	% v/v	POST					
4	Atrazine 90 DF	90	DF	1.5	lb ai/a	POST	2	0	96	88	98
4	Herbimax		L	1	% v/v	POST					
5	ATR tech	97.2	DF	1	lb ai/a	POST	4	0	94	72	95
5	N-Go		L	1	% v/v	POST					
6	ATR tech	97.2	DF	1.5	lb ai/a	POST	3	0	95	78	100
6	N-Go		L	1	% v/v	POST					

LSD (P=.05)	4.8	0.0	7.3	20.5	10.9
Standard Deviation	2.6	0.0	4.0	11.3	6.0
CV	100.52	0.0	4.22	14.26	6.25