

MSU Weed Science Research Program

WEED CONTROL IN NO-TILL CORN WITH VIDA, 2009

Trial ID: C1809
Conducted: CAMPUS, C28

Study Dir.: Andy Chomas
Investigator: Wesley Everman

Date Planted: 5/17/09
Variety: Pioneer 37Y14
Population: 31,000 S/A
Soil Type: Sandy Loam
Plot Size: 10 X 35 FT
Row Spacing: 30 IN
No. of Reps: 4
% OM: 2
pH: 7.3
Design: RANDOMIZED COMPLETE BLOCK

Tillage: No-Till
Fertilizer: 500 lbs/A 21-0-0 Broadcast. 200 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.	AMBEL	RAGWEEED, COMMON	AMBROSIA ARTEMISIIFOLIA
Crop	Code	Common Name	
1.	ZEAMX	CORN, FIELD	

Application Description

A

Application Timing: EPP
Date Treated: 5/4/09
Time Treated: 9:30 am
% Cloud Cover: 35
Air Temp., Unit: 60 F
% Relative Humidity: 45
Wind Speed/Unit/Dir: 4 mph NE
Soil Temp., Unit: 47 F
Soil Moist (1=w 5=d): 3

Crop Stage at Each Application

A

Crop Name: ZEAMX
Height (In.): N/A

Weed Stage at Each Application

A

Weed 1 Name: ANGR
Height (In.): .3
Stage (L): 1
Weed 2 Name: CHEAL
Height (In.): .3-.5(.3)
Stage (L): cot-4(1)
Weed 3 Name: AMARE
Weed 4 Name: AMBEL
Height (In.): .25
Stage (L): cot-2(1)

Weed Density (plants/sq. ft.)

1

Date: 5/4/09
Weed Name: ANGR
Density: 4
Date: 5/4/09
Weed Name: CHEAL
Density: 3
Date: 5/4/09
Weed Name: AMARE
Density: 5
Date: 5/4/09
Weed Name: AMBEL
Density: 4

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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	19"	20"	100"	20	H2O	30	

Comments: Spray Solution was buffered to PH 6

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Weed Code	ANGR	CHEAL	AMBEL		ANGR	CHEAL	AMBEL
Crop Code				ZEAMX			
Rating Data Type	control	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Rating Date	5/18/09	5/18/09	5/18/09	6/1/09	6/1/09	6/1/09	6/1/09
Trt-Eval Interval	AT PLANT	AT PLANT	AT PLANT	28 DAEPP	28 DAEPP	28 DAEPP	28 DAEPP
ARM Action Codes							

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7
1	Vida	0.208	L	1	fl oz/a	EPP	94	100	100	0	84	98	100
1	Atrazine	4	L	1.5	qt/a	EPP							
1	Herbimax		L	1	% v/v	EPP							
2	Vida	0.208	L	1	fl oz/a	EPP	95	100	99	0	90	99	91
2	Resolve	25	DF	1	oz/a	EPP							
2	Herbimax		L	1	% v/v	EPP							
3	Vida	0.208	L	1	fl oz/a	EPP	86	100	100	0	65	60	83
3	2,4-D Ester	3.8	L	1	pt/a	EPP							
3	Herbimax		L	1	% v/v	EPP							
4	Roundup PowerMAX	4.5	L	22	fl oz/a	EPP	92	100	99	0	65	60	69
4	Ammonium Sulfate	100	DF	17	lb/100 gal	EPP							
5	Untreated						0	0	0	0	0	0	0
LSD (P=.05)							7.4	0.0	1.8	0.0	7.2	4.0	7.9
Standard Deviation							4.8	0.0	1.2	0.0	4.7	2.6	5.1
CV							6.56	0.0	1.46	0.0	7.67	4.08	7.5

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Weed Code	ABUTH	ANGR	CHEAL	AMBEL	ABUTH
Crop Code					
Rating Data Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	6/1/09	6/24/09	6/24/09	6/24/09	6/24/09
Trt-Eval Interval	28 DAEPP	51 DAEPP	51 DAEPP	51 DAEPP	51 DAEPP
ARM Action Codes					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	8	9	10	11	12
1	Vida	0.208	L	1	fl oz/a	EPP	85	55	90	98	66
1	Atrazine	4	L	1.5	qt/a	EPP					
1	Herbimax		L	1	% v/v	EPP					
2	Vida	0.208	L	1	fl oz/a	EPP	94	73	59	74	88
2	Resolve	25	DF	1	oz/a	EPP					
2	Herbimax		L	1	% v/v	EPP					
3	Vida	0.208	L	1	fl oz/a	EPP	75	0	0	0	0
3	2,4-D Ester	3.8	L	1	pt/a	EPP					
3	Herbimax		L	1	% v/v	EPP					
4	Roundup PowerMAX	4.5	L	22	fl oz/a	EPP	60	0	0	0	0
4	Ammonium Sulfate	100	DF	17	lb/100 gal	EPP					
5	Untreated						0	0	0	0	0
LSD (P=.05)							11.9	6.9	11.4	9.9	13.1
Standard Deviation							7.7	4.5	7.4	6.5	8.5
CV							12.3	17.54	24.83	18.85	27.79