

GRASS CONTROL IN NO-TILL CORN WITH ATRAZINE PREMIXES

Trial ID: 04NTC3 Study Dir.: Anthony F. Dobbels
Location: WESTERN BRANCH F-9 Investigator: Dr. Mark M. Loux

GENERAL TRIAL INFORMATION

Study Director: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Code Common Name Scientific Name
1. SETFA Giant foxtail Setaria faberi

Crop 1: ZEAMX CORN, FIELD Variety: SEED CONSULTANTS SC1124A
Planting Date: 4-28-04 Planting Method: JOHN DEERE 7200
Rate: 32097 SEED/A Depth: 1.5 IN
Row Spacing: 30 IN Seed Bed: NO-TILL

SITE AND DESIGN

Plot Width, Unit: 6.67 FT Plot Length, Unit: 30 FT Reps: 3
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance: APPLIED ROUNDUP WEATHERMAX AT 22 OZ/A ON 4-23-04 TO ENTIRE STUDY.

SOIL DESCRIPTION

% OM: 5 Texture: silty clay loam
pH: 6.3 Soil Name: Kokomo
CEC: 24

APPLICATION DESCRIPTION

	A	B	C
Application Date:	3-29-04	4-14-04	4-29-04
Time of Day:	10:00 A.M	12:00 P.M	9:00 A.M.
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	30 EPP	15 EPP	PRE
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	56 F	51 F	66 F
% Relative Humidity:	76	47	39
Wind Velocity, Unit:	2 S	8 N	7 S
Soil Temp., Unit:	53 F	48 F	53 F
Soil Moisture:	MOIST/WET	WET/MOIST	DRY/MOIST
% Cloud Cover:	100	5	10

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX	ZEAMX	ZEAMX

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	SETFA	SETFA	SETFA
Density, Unit:	107 M2	107 M2	107 M2

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	50	50	50
Nozzle Type:	DG	DG	DG
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA
Propellant:	CO2	CO2	CO2

(04NTC3)

Ohio State University
Horticulture and Crop Science

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Weed Code		SETFA	SETFA
Crop Code		ZEAMX	
Rating Data Type		PHYTO CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT
Rating Date		5-27-04	6-29-04
Trt-Eval Interval		28 DA-C	61 DA-C
# Subsamples, Dec.		0	0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3
1	BICEP II MAGNUM	2.6	qt/a	30	EPP A	0	57	53
2	STALWART XTRA	2.6	qt/a	30	EPP A	0	62	63
3	KIH-485	5	oz/a	30	EPP A	0	68	68
3	ATRAZINE	1.75	qt/a	30	EPP			
4	DEFINE SC	21	oz/a	30	EPP A	0	68	62
4	ATRAZINE	1.75	qt/a	30	EPP			
5	DEGREE XTRA	3.7	qt/a	30	EPP A	0	55	52
5	ATRAZINE	0.5	qt/a	30	EPP			
6	BICEP II MAGNUM	2.1	qt/a	15	EPP B	0	67	68
7	STALWART XTRA	2.1	qt/a	15	EPP B	0	55	43
8	KIH-485	5	oz/a	15	EPP B	0	79	82
8	ATRAZINE	1.5	qt/a	15	EPP			
9	DEFINE SC	18	oz/a	15	EPP B	0	70	63
9	ATRAZINE	1.5	qt/a	15	EPP			
10	DEGREE XTRA	3	qt/a	15	EPP B	0	65	60
10	ATRAZINE	0.5	qt/a	15	EPP			
11	BICEP II MAGNUM	2.1	qt/a	PRE	C	0	78	78
12	STALWART XTRA	2.1	qt/a	PRE	C	0	73	75
13	KIH-485	5	oz/a	PRE	C	0	92	90
13	ATRAZINE	1.5	qt/a	PRE				
14	DEFINE SC	18	oz/a	PRE	C	0	83	80
14	ATRAZINE	1.5	qt/a	PRE				
15	DEGREE XTRA	3	qt/a	PRE	C	0	89	85
15	ATRAZINE	0.5	qt/a	PRE				
16	UTC					0	0	0
LSD (P=.05)						0.0	13.2	15.6
Standard Deviation						0.0	7.9	9.3
CV						0.0	11.91	14.62
Replicate F						0.000	0.333	4.547
Replicate Prob(F)						1.0000	0.7192	0.0188
Treatment F						0.000	21.190	15.700
Treatment Prob(F)						1.0000	0.0001	0.0001