

EARLY PREPLANT GRASS CONTROL IN NO-TILL CORN

Trial ID: 04NTC2 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: 6-28-04 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.
APPLIED 3 OZ CALLISTO 5-29-04

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:	104 M2	104 M2	104 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

(04NTC2)

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	5-27-04
Trt-Eval Interval		28 DA-C	28 DA-C
# Subsamples, Dec.		0	0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3
1	DUAL II MAGNUM	2 pt/a		30 EPP A		0	78	78
2	STALWART C	2 pt/a		30 EPP A		0	68	63
3	KIH-485	5 oz/a		30 EPP A		0	75	82
4	DEFINE SC	21 oz/a		30 EPP A		0	60	62
5	DEGREE	2.5 qt/a		30 EPP A		0	57	55
6	DUAL II MAGNUM	1.67 pt/a		15 EPP B		0	63	67
7	STALWART C	1.67 pt/a		15 EPP B		0	55	57
8	KIH-485	5 oz/a		15 EPP B		0	77	80
9	DEFINE SC	18 oz/a		15 EPP B		0	65	70
10	DEGREE	2.125 qt/a		15 EPP B		0	68	62
11	DUAL II MAGNUM	1.67 pt/a		PRE C		0	70	68
12	STALWART C	1.67 pt/a		PRE C		0	75	75
13	KIH-485	5 oz/a		PRE C		0	98	95
14	DEFINE SC	18 oz/a		PRE C		0	93	90
15	DEGREE	2.125 qt/a		PRE C		0	63	63
16	UTC					0	0	0
LSD (P=.05)						0.0	11.7	19.5
Standard Deviation						0.0	7.0	11.7
CV						0.0	10.56	17.59
Replicate F						0.000	0.137	0.640
Replicate Prob(F)						1.0000	0.8728	0.5342
Treatment F						0.000	27.672	9.780
Treatment Prob(F)						1.0000	0.0001	0.0001