

NO-TILL PREEMERGENCE WEED CONTROL WITH KIH-485

Trial ID: 04KIHNTW 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
2. AMBTR	Ragweed, giant	Ambrosia trifida
3. AMBEL	Ragweed, common	Ambrosia artemisiifolia
4. CHEAL	Lambsquarters, common	Chenopodium album
5. POLPY	Pennsylvania smartweed	Polygonum pennsylvanicum
6. AMARE	Redroot pigweed	Amaranthus retroflexus

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 OVERLAY OF ROUNDUP WEATHERMAX 22 OZ/A ON 4-23-04.

SOIL DESCRIPTION

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

APPLICATION DESCRIPTION

A

Application Date: 4-29-04
Time of Day: 9:00 A.M.
Application Method: SPRAY
Application Timing: PRE
Applic. Placement: BROADCAST
Air Temp., Unit: 66 F
% Relative Humidity: 39
Wind Velocity, Unit: 7 S
Soil Temp., Unit: 53 F
Soil Moisture: DRY/MOIST
% Cloud Cover: 10

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: ZEAMX

WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage: SETFA
Density, Unit: 35.5 M2
Weed 2 Code, Stage: AMBTR
Density, Unit: 3 M2
Weed 3 Code, Stage: AMBEL
Density, Unit: 2.5 M2
Weed 4 Code, Stage: CHEAL
Density, Unit: 1 M2
Weed 5 Code, Stage: POLPY
Density, Unit: 2.3 M2
Weed 6 Code, Stage: AMARE
Density, Unit: 3.2 M2

APPLICATION EQUIPMENT

A

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

(04KIHNTW)

Ohio State University
Horticulture and Crop Science

Weed Code	SETFA	AMBTR	AMBEL	TR CHEAL	POLPY	AMARE
Crop Code						
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	6-28-04	6-28-04	6-28-04	6-28-04	6-28-04	6-28-04
Trt-Eval Interval	60 DA-A	60 DA-A	60 DA-A	60 DA-A	60 DA-A	60 DA-A
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	9	10	11	12	13	14
1	KIH-485	5 oz/a		PRE	A	98	0	33	27	0	100
2	KIH-485	6 oz/a		PRE	A	98	0	0	33	0	100
3	KIH-485	10 oz/a		PRE	A	98	0	67	93	0	100
4	DUAL II MAGNUM	1.66 pt/a		PRE	A	97	0	0	0	0	100
5	DUAL II MAGNUM	3.33 pt/a		PRE	A	97	0	20	27	0	100
6	KIH-485/ATRAZINE	38 oz/a		PRE	A	90	82	100	97	100	100
7	KIH-485/ATRAZINE	52.3 oz/a		PRE	A	88	77	93	73	100	100
8	BICEP II MAGNUM	4.1 pt/a		PRE	A	73	82	100	60	100	100
9	HARNESS XTRA 5.6	2.4 qt/a		PRE	A	83	83	98	57	100	100
10	UTC					0	0	0	0	0	0
LSD (P=.05)						10.6	9.1	46.7	52.2	0.0	0.0
Standard Deviation						6.2	5.3	27.2	30.4	0.0	0.0
CV						7.47	16.38	53.24	65.19	0.0	0.0
Replicate F						0.682	0.208	1.794	0.004	0.000	0.000
Replicate Prob(F)						0.5181	0.8142	0.1948	0.9964	1.0000	1.0000
Treatment F						71.599	186.614	8.157	3.962	0.000	0.000
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0063	1.0000	1.0000