

PREEMERGENCE WEED CONTROL WITH KIH-485

Trial ID: 04KIHNW Study Dir.: Anthony F. Dobbels
Location: NORTHWEST BRANCH A-1 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. AMBEL	Ragweed, common	Ambrosia artemisiifolia
2. ABUTH	Velvetleaf	Abutilon theophrasti
3. CHEAL	Lambsquarters, common	Chenopodium album
4. POLPY	Pennsylvania smartweed	Polygonum pennsylvanicum

Crop 1: ZEAMX CORN, FIELD Variety: PIONEER 34M94
Planting Date: 4-19-04 Planting Method: JOHN DEERE 7000
Rate: 30813 SEED/A Depth: 1.5 IN
Row Spacing: 30 IN Seed Bed: CONVETIONAL

SITE AND DESIGN

Plot Width, Unit: 6.67 FT Plot Length, Unit: 30 FT Reps: 3
Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% OM: 3.7 Texture: clay
pH: 6.6 Soil Name: Hoytville
CEC: 19.5

APPLICATION DESCRIPTION

A
Application Date: 4-20-04
Time of Day: 7:30 A.M.
Application Method: SPRAY
Application Timing: PRE
Applic. Placement: BROADCAST
Air Temp., Unit: 45 F
% Relative Humidity: 75
Wind Velocity, Unit: 9 E
Soil Temp., Unit: 48 F
Soil Moisture: DRY/DRY
% Cloud Cover: 100

CROP STAGE AT EACH APPLICATION

A
Crop 1 Code, Stage: ZEAMX

WEED STAGE AT EACH APPLICATION

A
Weed 1 Code, Stage: AMBEL
Density, Unit: 5.6 M2
Weed 2 Code, Stage: ABUTH
Density, Unit: .6 M2
Weed 3 Code, Stage: CHEAL
Density, Unit: 6.3 M2
Weed 4 Code, Stage: POLPY
Density, Unit: .6 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

(04KIHNW)

Ohio State University
Horticulture and Crop Science

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Weed Code												
Crop Code												
Rating Data Type												
Rating Unit												
Rating Date												
Trt-Eval Interval												
# Subsamples, Dec.												
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7
1	KIH-485	6 oz/a		PRE	A	0	0	0	0	37	60	67
2	KIH-485	7 oz/a		PRE	A	0	100	100	93	93	100	100
3	KIH-485	12 oz/a		PRE	A	0	100	100	100	100	100	100
4	DUAL II MAGNUM	2 pt/a		PRE	A	0	0	0	0	10	10	17
5	DUAL II MAGNUM	4 pt/a		PRE	A	0	0	0	0	10	0	37
6	KIH-485/ATRAZINE	46 oz/a		PRE	A	0	100	100	100	100	100	100
7	KIH-485/ATRAZINE	62.6 oz/a		PRE	A	0	100	100	100	100	100	100
8	BICEP II MAGNUM	2.6 qt/a		PRE	A	0	100	100	92	100	100	80
9	HARNESS XTRA 5.6	3 qt/a		PRE	A	0	100	100	90	100	100	87
10	UTC					0	0	0	0	0	0	0
LSD (P=.05)						0.7	0.0	0.0	7.5	24.0	23.1	30.1
Standard Deviation						0.4	0.0	0.0	4.4	14.0	13.4	17.5
CV						217.31	0.0	0.0	7.65	21.49	20.02	25.55
Replicate F						1.588	0.000	0.000	0.904	0.051	0.389	0.206
Replicate Prob(F)						0.2316	1.0000	1.0000	0.4224	0.9502	0.6837	0.8159
Treatment F						0.471	0.000	0.000	381.555	30.750	34.833	13.892
Treatment Prob(F)						0.8757	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001