

LONG TERM CROPPING SYSTEMS

Trial ID: 04LONGTERM
Location: WESTERN D

Study Dir.: Anthony F. Dobbels
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. ABUTH	Velvetleaf	Abutilon theophrasti
3. CHEAL	Lambsquarters, common	Chenopodium album
4. AMBTR	Ragweed, giant	Ambrosia trifida
5. AMARE	Pigweed, redroot	Amaranthus retroflexus
6. SIDSP	Teaweed	Sida spinosa
7. STEME	Common chickweed	Stellaria media

Crop 1: ZEAMX CORN, FIELD Variety: DEKALB DKC64-11 RR/YGCB
 Planting Date: 4-29-04 Planting Method: JOHN DEERE
 Rate: 32097 SEED/A Depth: 1.5 IN Seed Bed: CONVENTIONAL
 Row Spacing: 30 IN

SITE AND DESIGN

Plot Width, Unit: 20 FT Plot Length, Unit: 1750 FT Reps: 3
 Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% OM: 2.5 Texture: silt loam
 pH: 6.2 Soil Name: Crosby
 CEC: 19.9

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	4-29-04	5-29-04	6-3-04	6-16-04
Time of Day:	7:00 P.M.	8:00 A.M.	3:00 P.M.	6:00 P.M.
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EPO	POST	LPO
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	72 F	54 F	75 F	78 F
% Relative Humidity:	54	73	50	84
Wind Velocity, Unit:	6 S	4 NE	6 N	8 SE
Soil Temp., Unit:	62 F	54 F	74 F	76 F
Soil Moisture:	DRY/MOIST	DRY/MOIST	DRY/MOIST	MOIST/WET
% Cloud Cover:	30	50	25	100

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Stage Scale:	4 COLLAR	5 COLLAR	7 COLLAR	
Height, Unit:	9 IN	13 IN	30 IN	

WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	SETFA	SETFA 3-4"	SETFA 1-2"	SETFA 1"
Stage Scale:	3 LVS	3 LVS	3 LVS	1 LV
Weed 2 Code, Stage:	ABUTH	ABUTH 1-2"	ABUTH 1-2"	ABUTH
Stage Scale:	3 LVS	3 LVS	3 LVS	
Weed 3 Code, Stage:	CHEAL	CHEAL 1"	CHEAL 1"	CHEAL 1/4"
Stage Scale:	4 LVS	4 LVS	4 LVS	COTYLEDON
Weed 4 Code, Stage:	AMBTR	AMBTR 4-6"	AMBTR 6-8"	AMBTR 1"
Stage Scale:	4 LVS	10 LVS	10 LVS	COTYLEDON
Weed 5 Code, Stage:	AMARE	AMARE 1/2"	AMARE 1"	AMARE
Stage Scale:	2 LVS	2 LVS	2 LVS	
Weed 6 Code, Stage:	SIDSP	SIDSP 1/2"	SIDSP 3-4"	SIDSP 1/2"
Stage Scale:	2 LVS	3 LVS	3 LVS	COTYLEDON
Weed 7 Code, Stage:	STEME	STEME 4-6"	STEME 3"	STEME
Stage Scale:		>12 LVS	>12 LVS	

APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	TRACTOR	TRACTOR	TRACTOR	TRACTOR
Operating Pressure:	40	40 PSI	40 PSI	40 PSI
Nozzle Type:	DG	AI	AI	AI
Nozzle Size:	11002	111002	111002	111002
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN
Ground Speed, Unit:	5 MPH	3.5 MPH	3.5 MPH	3.5 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	10 GPA	15 GPA	15 GPA	15 GPA
Propellant:	PUMP	PUMP	PUMP	PUMP

(04LONGTERM)

Ohio State University
Horticulture and Crop Science

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Weed Code	SETFA	AMBTR	CHEAL	SIDSP	SETFA	AMBTR	CHEAL	SIDSP
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	6-18-04	6-18-04	6-18-04	6-18-04	6-30-04	6-30-04	6-30-04	6-30-04
Trt-Eval Interval	15 DA-C	15 DA-C	15 DA-C	15 DA-C	27 DA-C	27 DA-C	27 DA-C	27 DA-C
# Subsamples, Dec.	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7	8
1	ROUNDUP WEATHERMAX	22 oz/a		EPO	B	100	98	100	97	100	100	100	100
1	AMS	2 qt/a		EPO									
1	ROUNDUP WEATHERMAX	22 oz/a		LPO	D								
1	AMS	2 qt/a		LPO									
2	ROUNDUP WEATHERMAX	16 oz/a		EPO	B	100	100	100	100	100	100	100	100
2	AMS	2 qt/a		EPO									
2	ROUNDUP WEATHERMAX	16 oz/a		LPO	D								
2	AMS	2 qt/a		LPO									
3	DEGREE XTRA	1.65 qt/a		PRE	A	100	90	100	100	99	85	98	100
3	ROUNDUP WEATHERMAX	22 oz/a		POST	C								
3	AMS	2 qt/a		POST									
4	DEGREE XTRA	1.65 qt/a		PRE	A	100	95	100	100	99	92	100	100
4	STEADFAST ATZ	14 oz/a		POST	C								
4	CALLISTO	2 oz/a		POST	C								
4	COC	0.4 qt/a		POST	C								
4	28%	1 qt/a		POST	C								
5	DEGREE XTRA	1.65 qt/a		PRE	A	100	93	100	100	100	87	97	98
5	STEADFAST ATZ	14 oz/a		POST	C								
5	CALLISTO	2 oz/a		POST	C								
5	COC	0.4 qt/a		POST	C								
5	28%	1 qt/a		POST	C								
6	DEGREE XTRA	1.65 qt/a		PRE	A	100	100	100	100	100	100	100	100
6	STEADFAST ATZ	14 oz/a		POST	C								
6	CALLISTO	2 oz/a		POST	C								
6	COC	0.4 qt/a		POST	C								
6	28%	1 qt/a		POST	C								
LSD (P=.05)						0.0	13.8	0.0	4.3	1.2	24.4	5.0	2.1
Standard Deviation						0.0	7.6	0.0	2.4	0.6	13.4	2.7	1.2
CV						0.0	7.87	0.0	2.37	0.63	14.28	2.76	1.18
Replicate F						0.000	0.097	0.000	1.000	1.667	0.100	0.556	1.000
Replicate Prob(F)						1.0000	0.9083	1.0000	0.4019	0.2373	0.9053	0.5905	0.4019
Treatment F						0.000	0.854	0.000	1.000	2.333	0.828	0.778	1.000
Treatment Prob(F)						1.0000	0.5426	1.0000	0.4651	0.1191	0.5575	0.5875	0.4651