

(04PRPOC2)

Ohio State University
Horticulture and Crop Science

PRE FB POST WEED CONTROL IN CORN

Trial ID: 04PRPOC2 Study Dir.: Anthony F. Dobbels
Location: WESTERN BRANCH F-7 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. CHEAL	Lambsquarters, common	Chenopodium album
3. AMBEL	Ragweed, common	Ambrosia artemisiifolia
4. ABUTH	Velvetleaf	Abutilon theophrasti
5. AMARE	Redroot pigweed	Amaranthus retroflexus
6. POLPY	Pennsylvania smartweed	Polygonum pensylvanicum

Crop 1: ZEAMX CORN, FIELD Variety: DEKALB DKC 60-09 RR
Planting Date: 4-28-04 Planting Method: JOHN DEERE 7200
Rate: 32097 SEED/A Depth: 1.5 IN
Row Spacing: 30 IN Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 40 FT Reps: 4
Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% OM: 5.2 Texture: silty clay loam
pH: 5.6 Soil Name: Kokomo
CEC: 25

APPLICATION DESCRIPTION

	A	B	C
Application Date:	4-29-04	6-3-04	6-17-04
Time of Day:	7:30 A.M.	9:00 A.M.	9:00 A.M.
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	POST	LPO
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	54 F	59 F	78 F
% Relative Humidity:	52	77	81
Wind Velocity, Unit:	2 S	2 W	8 SW
Soil Temp., Unit:	51 F	59 F	76 F
Soil Moisture:	DRY/MOIST	DRY/MOIST	MOIST/WET
% Cloud Cover:	0	25	100

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX	ZEAMX	ZEAMX
Stage Scale:		6 COLLAR	8 COLLAR
Height, Unit:		15 IN	30 IN

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WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	SETFA	SETFA 3-4"	SETFA
Stage Scale:		3 LVS	
Density, Unit:		45 M2	
Weed 2 Code, Stage:	CHEAL	CHEAL 2-3"	CHEAL
Stage Scale:		4 LVS	
Density, Unit:		15 M2	
Weed 3 Code, Stage:	AMBEL	AMBEL 3-5"	AMBEL
Stage Scale:		6 LVS	
Density, Unit:		3.3 M2	
Weed 4 Code, Stage:	ABUTH	ABUTH 3-5"	ABUTH 1"
Stage Scale:		4 LVS	2 LVS
Density, Unit:		1.3 M2	1.3 M2
Weed 5 Code, Stage:	AMARE	AMARE 2"	AMARE
Stage Scale:		4 LVS	
Density, Unit:		3.3 M2	
Weed 6 Code, Stage:	POLPY	POLPY 6-8"	POLPY 8"
Stage Scale:		12 LVS	12 LVS
Density, Unit:		4 M2	4 M2

APPLICATION EQUIPMENT

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

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Weed Code			
Crop Code	ZEAMX	ZEAMX	ZEAMX
Rating Data Type	WEIGHT	MOISTURE	YIELD
Rating Unit	LBS	PERCENT	BU/ACRE
Rating Date	10-6-04	10-6-04	10-6-04
Trt-Eval Interval	HARVEST	HARVEST	HARVEST
ARM Action Codes			TY1
# Subsamples, Dec.	1	1	1

Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	Appl Code	31	32	33
1	A14224	3.5	qt/a	PRE	A	52.0 a	14.5 a	204.5 ab
2	BICEP II MAGNUM	2.6	qt/a	PRE	A	54.9 a	15.0 a	215.0 ab
2	CALLISTO	3	oz/a	POST	B			
2	AATREX	0.5	qt/a	POST				
2	COC	0.8	qt/a	POST				
2	28 %	2	qt/a	POST				
3	GUARDSMAN MAX	2.3	qt/a	PRE	A	53.1 a	15.0 a	207.2 ab
3	DISTINCT	4	oz/a	POST	B			
3	NIS	6.4	oz/a	POST				
3	28 %	2	qt/a	POST				
4	KEYSTONE	3.2	qt/a	PRE	A	52.7 a	14.7 a	206.7 ab
4	HORNET WDG	3	oz/a	POST	B			
4	NIS	6.4	oz/a	POST				
4	28 %	2	qt/a	POST				
5	CINCH ATZ	0.75	qt/a	PRE	A	51.9 a	14.2 a	204.9 ab
5	STEADFAST ATZ	14	oz/a	POST	B			
5	CALLISTO	3	oz/a	POST				
5	COC	0.8	qt/a	POST				
5	28 %	2	qt/a	POST				
6	BALANCE PRO	2.25	oz/a	PRE	A	46.3 a	14.8 a	181.6 b
6	AATREX	1	qt/a	PRE				
6	EQUIP	1.5	oz/a	POST	B			
6	MSO	0.8	qt/a	POST				
6	28 %	2	qt/a	POST				
7	BICEP II MAGNUM	2.4	qt/a	PRE	A	51.7 a	15.5 a	200.9 ab
7	NORTHSTAR	5	oz/a	POST	B			
7	NIS	6.4	oz/a	POST				
7	28 %	1.6	qt/a	POST				

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Rating Date	10-6-04	10-6-04	10-6-04
Trt-Eval Interval	HARVEST	HARVEST	HARVEST
ARM Action Codes			TY1
# Subsamples, Dec.	1	1	1

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	31	32	33
8	BICEP II MAGNUM	2.4	qt/a	PRE	A	53.7 a	15.3 a	209.5 ab
8	SPIRIT	1	oz/a	POST	B			
8	COC	0.8	qt/a	POST				
8	28 %	1.6	qt/a	POST				
9	HARNESS XTRA 5.6	1	qt/a	PRE	A	55.1 a	14.5 a	216.9 a
9	ROUNDUP WEATHERMAX	22	oz/a	POST	B			
9	AMS	4	qt/a	POST				
10	ROUNDUP WEATHERMAX	22	oz/a	POST	B	53.5 a	14.7 a	210.1 ab
10	AMS	4	qt/a	POST				
10	ROUNDUP WEATHERMAX	16	oz/a	LPO	C			
10	AMS	4	qt/a	LPO				
11	UTC					17.2 b	11.1 b	69.0 c
LSD (P=.05)						8.88	1.68	34.59
Standard Deviation						6.15	1.16	23.95
CV						12.48	8.03	12.39
Replicate F						3.827	2.445	3.901
Replicate Prob(F)						0.0196	0.0832	0.0182
Treatment F						12.541	4.071	12.435
Treatment Prob(F)						0.0001	0.0013	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Column 3: TY1 = $3.889286 * [31] * (100 - [32]) / 84.5$