

(04CRNDAN1)

Ohio State University
Horticulture and Crop Science

DANDELION BURNDOWN IN CORN I

Trial ID: 04CRNDAN1 Study Dir.: Anthony F. Dobbels
Location: WESTERN ENTOMOLOGY W-3 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. TAROF	Common dandelion	Taraxacum officinale
2. STEME	Common chickweed	Stellaria media
3. LAMPU	Deadnettle, Red	Lamium purpureum

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: 10 FT **Plot Length, Unit:** 30 FT **Reps:** 3
Tillage Type: NO-TILL **Study Design:** RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance: 6-8-04 APPLIED POST APPLICATION OF 2/3 OZ ACCENT + 6 OZ DISTINCT.

SOIL DESCRIPTION

% OM:	3.0	Texture:	silty clay loam
pH:	6.1	Soil Name:	Kokomo
CEC:	18		

APPLICATION DESCRIPTION

A

Application Date: 4-22-04
Time of Day: 11:00 A.M
Application Method: SPRAY
Application Timing: 7 EPP
Applic. Placement: BROADCAST
Air Temp., Unit: 58 F
% Relative Humidity: 70
Wind Velocity, Unit: 3 E
Soil Temp., Unit: 53 F
Soil Moisture: MOIST/WET
% Cloud Cover: 100

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: ZEAMX

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WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage: TAROF 8-12"
Stage Scale: >12 LVS
Density, Unit: 12.6 M2
Weed 2 Code, Stage: STEME 8-12"
Stage Scale: >12 LVS
Density, Unit: 17.6 M2
Weed 3 Code, Stage: LAMPU 4-6"
Stage Scale: >12 LVS
Density, Unit: 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

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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	10-8-04	10-8-04	10-8-04
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	11	12	13
1	DUAL II MAGNUM	1.66	pt/a	7	EPP A	24.0 ab	21.2 a	174.5 b
1	BALANCE PRO	2	oz/a	7	EPP			
1	ATRAZINE	1.5	qt/a	7	EPP			
1	COC	0.8	qt/a	7	EPP			
2	DUAL II MAGNUM	1.66	pt/a	7	EPP A	26.0 ab	17.7 a	196.9 ab
2	BALANCE PRO	2	oz/a	7	EPP			
2	ATRAZINE	1.5	qt/a	7	EPP			
2	2,4-D ESTER	1	pt/a	7	EPP			
2	COC	0.8	qt/a	7	EPP			
3	LUMAX	3	qt/a	7	EPP A	26.6 ab	18.5 a	199.3 ab
3	COC	0.8	qt/a	7	EPP			
4	LUMAX	3	qt/a	7	EPP A	26.3 ab	19.7 a	194.7 ab
4	2,4-D ESTER	1	pt/a	7	EPP			
4	COC	0.8	qt/a	7	EPP			
5	LUMAX	3	qt/a	7	EPP A	27.6 a	18.3 a	207.4 a
5	GRAMOXONE MAX	1.3	pt/a	7	EPP			
5	COC	0.8	qt/a	7	EPP			
6	LUMAX	3	qt/a	7	EPP	27.2 ab	17.9 a	205.0 a
6	GRAMOXONE MAX	1.3	pt/a	7	EPP A			
6	2,4-D ESTER	1	pt/a	7	EPP			
6	COC	0.8	qt/a	7	EPP			
7	BICEP II MAGNUM	2.1	qt/a	7	EPP A	24.5 ab	20.3 a	179.6 ab
7	2,4-D ESTER	1	pt/a	7	EPP			
7	COC	0.8	qt/a	7	EPP			
8	BICEP II MAGNUM	2.1	qt/a	7	EPP A	23.4 b	21.4 a	170.5 b
8	GRAMOXONE MAX	1.3	pt/a	7	EPP			
8	COC	0.8	qt/a	7	EPP			

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Rating Unit	LBS	PERCENT	BU/ACRE
Rating Date	10-8-04	10-8-04	10-8-04
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	11	12	13
9	BICEP II MAGNUM	2.1	qt/a	7	EPP A	26.1 ab	19.2 a	194.0 ab
9	GRAMOXONE MAX	1.3	pt/a	7	EPP			
9	2,4-D ESTER	1	pt/a	7	EPP			
9	COC	0.8	qt/a	7	EPP			
10	FIELDMASTER	4	qt/a	7	EPP A	25.9 ab	20.5 a	189.3 ab
10	AMS	4	qt/a	7	EPP			
11	FIELDMASTER	4	qt/a	7	EPP A	26.8 ab	21.7 a	192.7 ab
11	2,4-D ESTER	1	pt/a	7	EPP			
11	AMS	4	qt/a	7	EPP			
12	BICEP II MAGNUM	2.1	qt/a	7	EPP A	26.0 ab	22.7 a	185.5 ab
12	CURTAL	2	pt/a	7	EPP			
13	BICEP II MAGNUM	2.1	qt/a	7	EPP A	26.3 ab	20.9 a	191.6 ab
13	DICAMBA	1	pt/a	7	EPP			
14	UTC					9.6 c	22.1 a	68.1 c
LSD (P=.05)						3.93	4.02	28.94
Standard Deviation						2.34	2.40	17.24
CV						9.47	11.9	9.47
Replicate F						10.211	0.731	9.768
Replicate Prob(F)						0.0005	0.4910	0.0007
Treatment F						11.119	1.366	11.986
Treatment Prob(F)						0.0001	0.2408	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 = 7.778572*[11]*(100-[12])/84.5