

FALL DANDELION CONTROL IN CORN

Trial ID: 04FALCRNDAN      Study Dir.: Anthony F. Dobbels  
Location: NORTHWEST      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

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: 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: ALL TREATMENTS THAT DID NOT RECIEVE A SPRING APPLICATION RECIEVED A PRE OVERLAY OF BICEP II MAGNUM AT 2.1 QTS/A.

SOIL DESCRIPTION

% OM: 3      Texture: Clay  
pH: 6.2      Soil Name: Hoytville  
CEC: 19.3

APPLICATION DESCRIPTION

	A	B
Application Date:	10-31-03	4-20-04
Time of Day:	9:00 A.M.	8:30 A.M.
Application Method:	SPRAY	SPRAY
Application Timing:	FALL	SPRING
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	65 F	45 F
% Relative Humidity:	57	75
Wind Velocity, Unit:	10 SW	9 E
Soil Temp., Unit:	49 F	48 F
Soil Moisture:	MOIST/WET	DRY/DRY
% Cloud Cover:	70	100

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX	ZEAMX

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	TAROF 4-6"	TAROF 6-8"
Stage Scale:	>12 LVS	>12 LVS
Density, Unit:	18.6 M2	18.6 M2

APPLICATION EQUIPMENT

	A	B
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

(04FALCRNDAN)

Ohio State University  
Horticulture and Crop Science

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Weed Code	TAROF	TAROF	TAROF	TAROF
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	4-12-04	4-27-04	5-18-04	6-4-04
Trt-Eval Interval	SPRING	7 DA-B	28 DA-B	AT POST
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4
1	BASIS	0.5	oz/a	FALL	A	88	77	30	0
1	2,4-D ESTER	1	pt/a	FALL					
1	COC	1.6	pt/a	FALL					
2	BASIS	0.5	oz/a	FALL	A	94	88	50	27
2	2,4-D ESTER	2	pt/a	FALL					
2	COC	1.6	pt/a	FALL					
3	BASIS	0.333	oz/a	FALL	A	83	82	43	23
3	PRINCEP	2	pt/a	FALL					
3	2,4-D ESTER	1	pt/a	FALL					
3	COC	1.6	pt/a	FALL					
4	PRINCEP	2	pt/a	FALL	A	63	70	55	47
4	2,4-D ESTER	2	pt/a	FALL					
4	COC	1.6	pt/a	FALL					
5	ROUNDUP WEATHERMAX	22	oz/a	FALL	A	90	88	43	23
5	ETK-751	0.5	oz/a	FALL					
5	AMS	4	qt/a	FALL					
6	PRINCEP	2	pt/a	FALL	A	53	57	97	85
6	2,4-D ESTER	1	pt/a	FALL					
6	COC	1.6	pt/a	FALL					
6	LUMAX	2.5	qt/a	SPRING	B				
6	ATRAZINE	2	pt/a	SPRING					
7	TOUCHDOWN TOTAL	18	oz/a	FALL	A	88	75	92	78
7	2,4-D ESTER	1	pt/a	FALL					
7	AMS	4	qt/a	FALL					
7	LUMAX	2.5	qt/a	SPRING	B				
7	ATRAZINE	2	pt/a	SPRING					
8	UTC					0	0	0	0
LSD (P=.05)						15.1	14.4	22.9	23.7
Standard Deviation						8.6	8.2	13.1	13.5
CV						12.3	12.24	25.48	38.15
Replicate F						0.818	0.664	3.407	3.771
Replicate Prob(F)						0.4615	0.5300	0.0623	0.0490
Treatment F						40.667	37.430	17.423	17.144
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001