

EFFECT OF APPLICATION TIME ON DANDELION CONTROL

Trial ID: 04PANW
Location: NORTHWEST

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. TAROF Taraxacum officinale Common dandelion

Crop 1: ZEAMX CORN, FIELD Variety: PIONEER 34M94
Planting Date: 5-26-04 Planting Method: JOHN DEERE 7000
Rate: 30000 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: APPLIED 6 OZ DISTINCT 7-2-04 EVERY OTHER TWO ROWS
APPLIED ACCENT 2/3 OZ ON 7-8-04

SOIL DESCRIPTION

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

APPLICATION DESCRIPTION

	A	B	C	D	E	F	G
Application Date:	10-31-03	4-3-04	4-12-04	4-20-04	5-3-04	5-10-04	5-20-04
Time of Day:	9:00 A.M.	8:30 A.M.	8:00 A.M.	8:30 A.M.	2:00 P.M.	10:00 A.M.	8:00 A.M.
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	FALL	APR 1	APR 10	APR 20	APR 30	MAY 10	MAY 20
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST	BROADCAST	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	65 F	42 F	37 F	45 F	48 F	73 F	56 F
% Relative Humidity:	57	76	63	75	41	68	79
Wind Velocity, Unit:	10 SW	5 W	10 NE	9 E	8 NW	6 SW	9 SW
Soil Temp., Unit:	49 F	39 F	39 F	48 F	50 F	75 F	76 F
Soil Moisture:	MOIST/WET	MOIST/WET	DRY/DRY	DRY/DRY	WET/MOIST	DRY/DRY	DRY/DRY
% Cloud Cover:	70	0	20	100	50	0	50

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G
Crop 1 Code, Stage:	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G
Weed 1 Code, Stage:	TAROF 4-6"	TAROF 4"	TAROF 4-8"	TAROF 6-8"	TAROF 8-10"	TAROF 10-12"	TAROF 12-16"
Stage Scale:	12 LVS	12 LVS	>12 LVS	>12 LVS	>12 LVS	>12 LVS	>12 LVS

APPLICATION EQUIPMENT

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

(04PANW)

Ohio State University
Horticulture and Crop Science

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Weed Code	TAROF	TAROF	TAROF	TAROF	TAROF	TAROF
Crop Code	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	5-4-04	5-18-04	7-2-04	7-29-04	7-29-04	8-1-04
Rating Date			AT POST	28 DAPO	28 DAPO	
Trt-Eval Interval						
# Subsamples, Dec.	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
1	2,4-D ESTER	2	pt/a	FALL	A	43	40	23	50	70	9
2	ROUNDUP WEATHERMAX	22	oz/a	FALL	A	63	33	35	43	65	10
2	AMS	4	qt/a	FALL							
3	ROUNDUP WEATHERMAX	22	oz/a	FALL	A	68	55	37	53	68	9
3	2,4-D ESTER	2	pt/a	FALL							
3	AMS	4	qt/a	FALL							
4	2,4-D ESTER	2	pt/a	APR-1	B	37	77	50	62	72	6
5	ROUNDUP WEATHERMAX	22	oz/a	APR-1	B	73	94	70	70	80	2
5	AMS	4	qt/a	APR-1							
6	ROUNDUP WEATHERMAX	22	oz/a	APR-1	B	65	94	80	72	80	1
6	2,4-D ESTER	2	pt/a	APR-1							
6	AMS	4	qt/a	APR-1							
7	2,4-D ESTER	2	pt/a	APR-10	C	33	68	57	62	70	4
8	ROUNDUP WEATHERMAX	22	oz/a	APR-10	C	33	67	30	53	60	9
8	AMS	4	qt/a	APR-10							
9	ROUNDUP WEATHERMAX	22	oz/a	APR-10	C	53	75	63	60	68	3
9	2,4-D ESTER	2	pt/a	APR-10							
9	AMS	4	qt/a	APR-10							
10	2,4-D ESTER	2	pt/a	APR-20	D	33	57	58	58	68	11
11	ROUNDUP WEATHERMAX	22	oz/a	APR-20	D	23	63	53	65	72	7
11	AMS	4	qt/a	APR-20							
12	ROUNDUP WEATHERMAX	22	oz/a	APR-20	D	57	75	77	82	87	2
12	2,4-D ESTER	2	pt/a	APR-20							
12	AMS	4	qt/a	APR-20							
13	2,4-D ESTER	2	pt/a	APR-30	E	33	68	73	73	82	6
14	ROUNDUP WEATHERMAX	22	oz/a	APR-30	E	0	53	57	65	73	8
14	AMS	4	qt/a	APR-30							
15	ROUNDUP WEATHERMAX	22	oz/a	APR-30	E	0	60	80	82	87	6
15	2,4-D ESTER	2	pt/a	APR-30							
15	AMS	4	qt/a	APR-30							
16	2,4-D ESTER	2	pt/a	MAY-10	F	0	60	83	78	87	3
17	ROUNDUP WEATHERMAX	22	oz/a	MAY-10	F	0	37	78	80	85	3
17	AMS	4	qt/a	MAY-10							
18	ROUNDUP WEATHERMAX	22	oz/a	MAY-10	F	0	60	92	83	90	0
18	2,4-D ESTER	2	pt/a	MAY-10							
18	AMS	4	qt/a	MAY-10							
19	2,4-D ESTER	2	pt/a	MAY-20	G	17	25	72	78	85	3
20	ROUNDUP WEATHERMAX	22	oz/a	MAY-20	G	0	0	78	82	88	4
20	AMS	4	qt/a	MAY-20							
21	ROUNDUP WEATHERMAX	22	oz/a	MAY-20	G	0	40	77	78	85	3
21	2,4-D ESTER	2	pt/a	MAY-20							
21	AMS	4	qt/a	MAY-20							
22	UTC				H	50	75	78	80	87	5
LSD (P=.05)						15.7	25.0	20.8	18.3	14.5	4.5
Standard Deviation						9.5	15.1	12.6	11.1	8.8	2.7
CV						30.54	26.07	19.82	16.13	11.32	51.33
Replicate F						2.429	2.289	2.964	4.712	4.259	0.718
Replicate Prob(F)						0.1004	0.1139	0.0625	0.0142	0.0207	0.4937
Treatment F						22.388	6.477	6.845	3.567	3.183	4.017
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0002	0.0007	0.0001