

FALL APPLIED TIMING STUDY

Trial ID: 04FALLTIME2      Study Dir.: Dr. Mark M. Loux  
Location: NORTHWESTERN      Investigator: Dr. Mark M. Loux

GENERAL TRIAL INFORMATION

Study Director: Dr. Mark M. Loux  
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: APPLIED OVERLAY OF BICEP 4.2 PTS/A ON 4-27-04

SOIL DESCRIPTION

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

APPLICATION DESCRIPTION

	A	B	C
Application Date:	9-30-03	10-31-03	12-22-03
Time of Day:	1:30 P.M.	9:00 A.M.	9:30 A.M.
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	OCT. 1	Nov. 1	Dec. 1
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	55 F	65 F	42 F
% Relative Humidity:	43	57	61
Wind Velocity, Unit:	11 W	10 SW	12 SW
Soil Temp., Unit:	55 F	49 F	30 F
Soil Moisture:	DRY/DRY	MOIST/WET	MOIST/WET
% Cloud Cover:	25	70	95

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX	ZEAMX	ZEAMX

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	TAROF 4-6" ROS	TAROF 4-6" ROS	TAROF 4-6" ROS
Stage Scale:	10 LVS	>12 LVS	>12 LVS
Density, Unit:	23.3 M2	23.3 M2	23.3 M2

APPLICATION EQUIPMENT

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

(04FALLTIME2)

Ohio State University  
Horticulture and Crop Science

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Weed Code  
Rating Data Type  
Rating Unit  
Rating Date  
Trt-Eval Interval  
# Subsamples, Dec.

TAROF CONTROL PERCENT 4-12-04 SPRING 0  
TAROF CONTROL PERCENT 4-20-04 AT PLANT 0  
TAROF CONTROL PERCENT 5-18-04 28 DAPL 0  
TAROF CONTROL PERCENT 6-4-04 AT POST 0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4
1	AIM	0.5 oz/a		OCT. 1	A	68	70	70	50
1	2,4-D ESTER	1.5 pt/a		OCT. 1					
1	COC	0.8 qt/a		OCT. 1					
2	AIM	0.5 oz/a		OCT. 1	A	83	75	70	57
2	2,4-D ESTER	1.5 pt/a		OCT. 1					
2	EXPRESS	0.1 oz/a		OCT. 1					
2	COC	0.8 qt/a		OCT. 1					
3	AIM	0.5 oz/a		OCT. 1	A	83	77	67	58
3	ROUNDUP WEATHERMAX	11 oz/a		OCT. 1					
3	2,4-D ESTER	1 pt/a		OCT. 1					
3	AMS	4 qt/a		OCT. 1					
4	BASIS	0.5 oz/a		OCT. 1	A	83	78	82	68
4	2,4-D ESTER	2 pt/a		OCT. 1					
4	COC	0.8 qt/a		OCT. 1					
5	BRASH	1 qt/a		OCT. 1	A	88	85	88	80
5	SWB 2,4-D	1 pt/a		OCT. 1					
5	PRIME OIL	0.8 qt/a		OCT. 1					
6	SIMAZINE	1 qt/a		OCT. 1	A	80	82	58	57
6	E-99	1.33 pt/a		OCT. 1					
6	PRIME OIL	0.8 qt/a		OCT. 1					
7	SIMAZINE	1 qt/a		OCT. 1	A	53	57	57	40
7	SWB 2,4-D	1 pt/a		OCT. 1					
7	PRIME OIL	0.8 qt/a		OCT. 1					
8	SIMAZINE	1 qt/a		OCT. 1	A	67	75	67	43
8	SWB 2,4-D	2 pt/a		OCT. 1					
8	PRIME OIL	0.8 qt/a		OCT. 1					
9	BASIS	0.5 oz/a		NOV. 1	B	88	82	57	43
9	2,4-D ESTER	2 pt/a		NOV. 1					
9	COC	0.8 qt/a		NOV. 1					
10	BRASH	1 qt/a		NOV. 1	B	77	83	70	57
10	SWB 2,4-D	1 pt/a		NOV. 1					
10	PRIME OIL	0.8 qt/a		NOV. 1					
11	SIMAZINE	1 qt/a		NOV. 1	B	63	68	53	47
11	E-99	1.33 pt/a		NOV. 1					
11	PRIME OIL	0.8 qt/a		NOV. 1					
12	SIMAZINE	1 qt/a		NOV. 1	B	65	55	33	30
12	SWB 2,4-D	1 pt/a		NOV. 1					
12	PRIME OIL	0.8 qt/a		NOV. 1					
13	SIMAZINE	1 qt/a		NOV. 1	B	68	68	58	43
13	SWB 2,4-D	2 pt/a		NOV. 1					
13	PRIME OIL	0.8 qt/a		NOV. 1					
14	BASIS	0.5 oz/a		DEC. 1	C	78	67	43	27
14	2,4-D ESTER	2 pt/a		DEC. 1					
14	COC	0.8 qt/a		DEC. 1					
15	BRASH	1 qt/a		DEC. 1	C	63	50	47	37
15	SWB 2,4-D	1 pt/a		DEC. 1					
15	PRIME OIL	0.8 qt/a		DEC. 1					
16	SIMAZINE	1 qt/a		DEC. 1	C	63	57	45	47
16	E-99	1.33 pt/a		DEC. 1					
16	PRIME OIL	0.8 qt/a		DEC. 1					
17	SIMAZINE	1 qt/a		DEC. 1	C	57	37	30	30
17	SWB 2,4-D	1 pt/a		DEC. 1					
17	PRIME OIL	0.8 qt/a		DEC. 1					
18	SIMAZINE	1 qt/a		DEC. 1	C	60	47	40	37
18	SWB 2,4-D	2 pt/a		DEC. 1					
18	PRIME OIL	0.8 qt/a		DEC. 1					
19	UTC					0	0	0	0
LSD (P=.05)						11.6	11.7	19.1	18.7
Standard Deviation						7.0	7.1	11.6	11.4
CV						10.36	11.16	21.21	25.39
Replicate F						0.186	0.269	6.335	2.213
Replicate Prob(F)						0.8310	0.7660	0.0044	0.1241
Treatment F						23.459	25.196	9.291	6.933
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001