

FALL APPLIED TIMING STUDY

Trial ID: 04FALLTIME Study Dir.: Anthony F. Dobbels
Location: NORTHWESTERN 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: GLXMA SOYBEAN Variety: DEKALB DKB 38-52
Planting Date: 4-26-04 Planting Method: JOHN DEERE 7000
Rate: 200000 SEED/A Depth: 0.5 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: OVERLAY PROWL 1.33 PT/A AND SCEPTER 2.8 OZ/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:	GLXMA	GLXMA	GLXMA

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	TAROF 8" ROSE	TAROF 8" ROSE	TAROF 4-6" ROSE
Stage Scale:	>12 LVS	>12 LVS	>12 LVS
Density, Unit:	20 M2	20 M2	20 M2

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	50	50	50
Nozzle Type:	DG 11002	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

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Study Dir.: Anthony F. Dobbels
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Weed Code	TAROF CONTROL PERCENT	TAROF CONTROL PERCENT	TAROF CONTROL PERCENT	TAROF CONTROL PERCENT
Rating Data Type	4-12-04	4-27-04	5-18-04	6-4-04
Rating Unit	SPRING	AT PLANT	22 DAPL	AT POST
Rating Date	0	0	0	0
Trt-Eval Interval				
# Subsamples, Dec.				

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4
1	ROUNDUP WEATHERMAX	11	oz/a	OCT. 1	A	77	68	43	35
1	2,4-D ESTER	1	pt/a	OCT. 1					
1	AMS	4	qt/a	OCT. 1					
2	ROUNDUP WEATHERMAX	22	oz/a	OCT. 1	A	100	90	63	60
2	AMS	4	qt/a	OCT. 1					
3	2,4-D ESTER	1	qt/a	OCT. 1	A	72	62	18	50
4	CANOPY XL 3.5 OZ			OCT. 1	A	92	78	55	68
4	F6025	1.34	oz/a	OCT. 1					
4	QY998	2.18	oz/a	OCT. 1					
4	EXPRESS	0.15	oz/a	OCT. 1					
4	2,4-D ESTER	1	pt/a	OCT. 1					
4	COC	1.6	pt/a	OCT. 1					
5	VALOR	1.96	oz/a	OCT. 1	A	92	87	58	55
5	2,4-D ESTER	2	pt/a	OCT. 1					
5	ROUNDUP ORIGINAL	32	oz/a	OCT. 1					
5	AMS	4	qt/a	OCT. 1					
5	NIS	6.4	oz/a	OCT. 1					
6	VALOR	1.96	oz/a	OCT. 1	A	80	85	48	77
6	2,4-D ESTER	2	pt/a	OCT. 1					
6	DICAMBA	8	oz/a	OCT. 1					
6	AMS	4	qt/a	OCT. 1					
6	NIS	6.4	oz/a	OCT. 1					
7	VALOR	1.96	oz/a	OCT. 1	A	67	72	17	60
7	2,4-D ESTER	2	pt/a	OCT. 1					
7	EXPRESS	0.2	oz/a	OCT. 1					
7	AMS	4	qt/a	OCT. 1					
7	NIS	6.4	oz/a	OCT. 1					
8	ROUNDUP WEATHERMAX	11	oz/a	NOV. 1	B	78	57	22	57
8	2,4-D ESTER	1	pt/a	NOV. 1					
8	AMS	4	qt/a	NOV. 1					
9	ROUNDUP WEATHERMAX	22	oz/a	NOV. 1	B	91	80	38	45
9	AMS	4	qt/a	NOV. 1					
10	2,4-D ESTER	1	qt/a	NOV. 1	B	67	68	28	62
11	CANOPY XL 3.5 OZ			NOV. 1	B	99	96	62	43
11	F6025	1.34	oz/a	NOV. 1					
11	QY998	2.18	oz/a	NOV. 1					
11	EXPRESS	0.15	oz/a	NOV. 1					
11	2,4-D ESTER	1	pt/a	NOV. 1					
11	COC	1.6	pt/a	NOV. 1					
12	VALOR	1.96	oz/a	NOV. 1	B	68	57	25	55
12	2,4-D ESTER	1	pt/a	NOV. 1					
12	ROUNDUP ORIGINAL	48	oz/a	NOV. 1					
12	AMS	4	qt/a	NOV. 1					
12	NIS	6.4	oz/a	NOV. 1					
13	VALOR	1.96	oz/a	NOV. 1	B	88	78	58	72
13	DICAMBA	8	oz/a	NOV. 1					
13	ROUNDUP ORIGINAL	48	oz/a	NOV. 1					
13	AMS	4	qt/a	NOV. 1					
13	NIS	6.4	oz/a	NOV. 1					
14	ROUNDUP WEATHERMAX	11	oz/a	DEC. 1	C	68	53	17	43
14	2,4-D ESTER	1	pt/a	DEC. 1					
14	AMS	4	qt/a	DEC. 1					
15	ROUNDUP WEATHERMAX	22	oz/a	DEC. 1	C	85	85	47	40
15	AMS	4	qt/a	DEC. 1					
16	2,4-D ESTER	1	qt/a	DEC. 1	C	63	23	27	55
17	CANOPY XL 3.5 OZ			DEC. 1	C	90	90	48	53
17	F6025	1.34	oz/a	DEC. 1					
17	QY998	2.18	oz/a	DEC. 1					
17	EXPRESS	0.15	oz/a	DEC. 1					
17	2,4-D ESTER	1	pt/a	DEC. 1					
17	COC	1.6	pt/a	DEC. 1					
18	VALOR	1.96	oz/a	DEC. 1	C	90	82	57	38
18	2,4-D ESTER	1	pt/a	DEC. 1					
18	ROUNDUP ORIGINAL	48	oz/a	DEC. 1					
18	AMS	4	qt/a	DEC. 1					
18	NIS	6.4	oz/a	DEC. 1					

(04FALLTIME1)

Ohio State University
Horticulture and Crop Science

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	AT PLANT	22 DAPL	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
19	VALOR	1.96	oz/a	DEC. 1	C	88	87	57	40
19	DICAMBA	8	oz/a	DEC. 1					
19	ROUNDUP ORIGINAL	48	oz/a	DEC. 1					
19	AMS	4	qt/a	DEC. 1					
19	NIS	6.4	oz/a	DEC. 1					
20	UTC					0	0	0	0
LSD (P=.05)						15.2	11.7	25.4	23.5
Standard Deviation						9.2	7.1	15.4	14.2
CV						11.82	10.12	39.09	28.22
Replicate F						0.487	7.212	0.760	5.200
Replicate Prob(F)						0.6180	0.0022	0.4747	0.0101
Treatment F						16.420	33.598	4.449	4.020
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001