

FALL DANDELION CONTROL IN SOYBEAN

Trial ID: 04FALDANSOY Study Dir.: Anthony F. Dobbels
Location: WESTERN ENTOMOLOGY W-4 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
2.	LAMPU Lamium purpureum	Deadnettle, red
3.	STEME Stellaria media	Common chickweed

Crop 1: GLXMA	SOYBEAN	Variety: SEED CONSULTANTS SC9333
Planting Date: 4-28-04	Planting Method: JOHN DEERE 7200	
Rate: 155000 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 OF PROWL AND SCEPTER APPLIED 5-14-04
 OVERLAY OF ROUNDUP WEATHERMAX 22 OZ/A ON 6-4-04

SOIL DESCRIPTION

% OM: 2.9	Texture: silt loam
pH: 6.1	Soil Name: Crosby
CEC: 18	

APPLICATION DESCRIPTION

A
 Application Date: 11-3-03
 Time of Day: 11:30 A.M.
 Application Method: SPRAY
 Application Timing: FALL
 Applic. Placement: BROADCAST
 Air Temp., Unit: 76 F
 % Relative Humidity: 50
 Wind Velocity, Unit: 6 S
 Soil Temp., Unit: 59 F
 Soil Moisture: MOIST/WET
 % Cloud Cover: 15

CROP STAGE AT EACH APPLICATION

A
Crop 1 Code, Stage: GLXMA

WEED STAGE AT EACH APPLICATION

A
 Weed 1 Code, Stage: TAROF 6-8" ROSE
 Stage Scale: 12 LVS
 Density, Unit: 16 M2
 Weed 2 Code, Stage: LAMPU 1/2-1"
 Stage Scale: 2 LVS
 Density, Unit: 3.3 M2
 Weed 3 Code, Stage: STEME 12"
 Stage Scale: >12 LVS
 Density, Unit: 14.6 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

(04FALDANSOY)

Ohio State University
Horticulture and Crop Science

Weed Code	TAROF	STEME	LAMPU	TAROF	STEME	LAMPU	TAROF	STEME
Crop Code								OLD
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	4-12-04	4-12-04	4-12-04	4-29-04	4-29-04	4-29-04	5-13-04	5-13-04
Trt-Eval Interval	SPRING	SPRING	SPRING	AT PLANT	AT PLANT	AT PLANT	14 DAPL	14 DAPL
# Subsamples, Dec.	0	0	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	7	8
17	ROUNDUP WEATHERMAX	16 oz/a		FALL	A	100	100	100	93	97	98	98	100
17	AMPLIFY	0.3 oz/a		FALL									
17	2,4-D ESTER	1 pt/a		FALL									
17	AMS	4 qt/a		FALL									
18	UTC					0	0	0	0	0	0	0	0
LSD (P=.05)						4.6	0.0	0.0	14.6	10.0	6.5	9.3	4.5
Standard Deviation						2.7	0.0	0.0	8.7	6.0	3.9	5.6	2.7
CV						2.97	0.0	0.0	10.82	6.84	4.28	6.6	3.05
Replicate F						0.987	0.000	0.000	0.951	3.917	0.207	2.862	1.000
Replicate Prob(F)						0.3832	1.0000	1.0000	0.3962	0.0295	0.8137	0.0710	0.3784
Treatment F						223.752	0.000	0.000	21.791	71.464	111.165	47.052	396.294
Treatment Prob(F)						0.0001	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

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Weed Code	STEME	LAMPU	LAMAM	TAROF	TAROF	STEME	LAMPU	LAMAM				
Crop Code	NEW	OLD	NEW	OLD	NEW	OLD&NEW	OLD	NEW				
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Date	5-13-04	5-13-04	5-13-04	6-3-04	6-3-04	6-3-04	6-3-04	6-3-04				
Trt-Eval Interval	14 DAPL	14 DAPL	14 DAPL	AT POST	AT POST	AT POST	AT POST	AT POST				
# Subsamples, Dec.	0 0	0	0	0	0	0	0	0				
Trt Treatment No. Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	9	10	11	12	13	14	15	16
LSD (P=.05)					25.7	0.0	21.0	10.5	18.7	0.0	0.0	11.9
Standard Deviation					15.4	0.0	12.6	6.3	11.2	0.0	0.0	7.1
CV					25.08	0.0	19.13	7.44	14.23	0.0	0.0	8.07
Replicate F					3.534	0.000	9.139	4.256	4.930	0.000	0.000	3.934
Replicate Prob(F)					0.0403	1.0000	0.0007	0.0224	0.0132	1.0000	1.0000	0.0290
Treatment F					16.069	0.000	26.405	36.812	12.253	0.000	0.000	38.568
Treatment Prob(F)					0.0001	1.0000	0.0001	0.0001	0.0001	1.0000	1.0000	0.0001

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

TAROF
OLD&NEW
CONTROL
PERCENT
6-28-04
28 DAPO
0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	17
1	CLASSIC	2	oz/a	FALL	A	100
1	EXPRESS	0.2	oz/a	FALL		
1	2,4-D ESTER	1	pt/a	FALL		
1	COC	0.8	qt/a	FALL		
2	CANOPY XL 4.5 OZ/A					100
2	CLASSIC	1.66	oz/a	FALL	A	
2	AUTHORITY	2.8	oz/a	FALL		
2	EXPRESS	0.2	oz/a	FALL		
2	2,4-D ESTER	1	pt/a	FALL		
2	COC	0.8	qt/a	FALL		
3	CLASSIC	1.47	oz/a	FALL	A	100
3	EXPRESS	0.15	oz/a	FALL		
3	2,4-D ESTER	1	pt/a	FALL		
3	COC	0.8	qt/a	FALL		
4	CANOPY XL 3.5 OZ/A					100
4	CLASSIC	1.34	oz/a	FALL	A	
4	AUTHORITY	2.18	oz/a	FALL		
4	EXPRESS	0.15	oz/a	FALL		
4	2,4-D ESTER	1	pt/a	FALL		
4	COC	0.8	qt/a	FALL		
5	CLASSIC	1	oz/a	FALL	A	100
5	EXPRESS	0.1	oz/a	FALL		
5	2,4-D ESTER	1	pt/a	FALL		
5	COC	0.8	qt/a	FALL		
6	CANOPY XL 2.5 OZ/A					99
6	CLASSIC	0.94	oz/a	FALL	A	
6	AUTHORITY	1.56	oz/a	FALL		
6	EXPRESS	0.1	oz/a	FALL		
6	2,4-D ESTER	1	pt/a	FALL		
6	COC	0.8	qt/a	FALL		
7	TOUCHDOWN TOTAL	18	oz/a	FALL	A	99
7	2,4-D ESTER	1	pt/a	FALL		
7	AMS	4	qt/a	FALL		
8	2,4-D ESTER	1	qt/a	FALL	A	97
8	COC	0.8	qt/a	FALL		
9	ROUNDUP WEATHERMAX	16	oz/a	FALL	A	100
9	AMS	4	qt/a	FALL		
10	ROUNDUP WEATHERMAX	22	oz/a	FALL	A	97
10	AMS	4	qt/a	FALL		
11	ROUNDUP WEATHERMAX	16	oz/a	FALL	A	96
11	2,4-D ESTER	1	pt/a	FALL		
11	AMS	4	qt/a	FALL		
12	ROUNDUP WEATHERMAX	16	oz/a	FALL	A	98
12	CANOPY XL 1.3 OZ/A					
12	F6025	0.51	oz/a	FALL		
12	QY998	0.83	oz/a	FALL		
12	AMS	4	qt/a	FALL		
13	ROUNDUP WEATHERMAX	16	oz/a	FALL	A	99
13	CANOPY XL 1.3 OZ/A					
13	F6025	0.51	oz/a	FALL		
13	QY998	0.83	oz/a	FALL		
13	2,4-D ESTER	1	pt/a	FALL		
13	AMS	4	qt/a	FALL		
14	ROUNDUP WEATHERMAX	16	oz/a	FALL	A	100
14	CANOPY XL 1 OZ/A					
14	F6025	0.384	oz/a	FALL		
14	QY998	0.62	oz/a	FALL		
14	AMS	4	qt/a	FALL		
15	ROUNDUP WEATHERMAX	16	oz/a	FALL	A	98
15	CANOPY XL 1 OZ/A					
15	F6025	0.384	oz/a	FALL		
15	QY998	0.62	oz/a	FALL		
15	2,4-D ESTER	1	pt/a	FALL		
15	AMS	4	qt/a	FALL		
16	ROUNDUP WEATHERMAX	16	oz/a	FALL	A	98
16	AMPLIFY	0.3	oz/a	FALL		
16	AMS	4	qt/a	FALL		
17	ROUNDUP WEATHERMAX	16	oz/a	FALL	A	100
17	AMPLIFY	0.3	oz/a	FALL		
17	2,4-D ESTER	1	pt/a	FALL		
17	AMS	4	qt/a	FALL		
18	UTC					95

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Weed Code TAROF
Crop Code OLD&NEW
Rating Data Type CONTROL
Rating Unit PERCENT
Rating Date 6-28-04
Trt-Eval Interval 28 DAPO
Subsamples, Dec. 0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	17
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LSD (P=.05) 3.7
Standard Deviation 2.2
CV 2.22

Replicate F 1.114
Replicate Prob(F) 0.3398
Treatment F 1.596
Treatment Prob(F) 0.1204