

(04SOYDAN1)

Ohio State University
Horticulture and Crop Science

DANDELION CONTROL IN SOYBEAN

Trial ID: 04SOYDAN1 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 Common dandelion	Taraxacum officinale
2.	LAMPU Deadnettle, Red	Lamium purpureum
3.	STEME Common chickweed	Stellaria media

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:
APPLIED 22 OZ/A ROUNDUP WEATHERMAX 6-3-04

SOIL DESCRIPTION

% OM:	2.9	Texture:	SILT LOAM
pH:	6.1	Soil Name:	CROSBY
CEC:	18		

APPLICATION DESCRIPTION

A

Application Date: 4-22-04
Time of Day: 11:00 A.M
Application Method: SPRAY
Application Timing: 7 EPP
Applic. Placement: BROADCAST
Air Temp., Unit: 58 F
% Relative Humidity: 70
Wind Velocity, Unit: 3 E
Soil Temp., Unit: 53 F
Soil Moisture: MOIST/WET
% Cloud Cover: 100

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: GLXMA

(04SOYDAN1)

Ohio State University
Horticulture and Crop Science

WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage: TAROF 8-12"
Stage Scale: >12 LVS
Density, Unit: 12 m2
Weed 2 Code, Stage: LAMPU 4-6"
Stage Scale: >12 LVS
Density, Unit: 8.6 m2
Weed 3 Code, Stage: STEME >12"
Stage Scale: >12 LVS
Density, Unit: 13 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

(04SOYDAN1)

Ohio State University
Horticulture and Crop Science

DANDELION CONTROL IN SOYBEAN

Trial ID: 04SOYDAN1 Study Dir.: Anthony F. Dobbels
Location: WESTERN ENTOMOLOGY W-4 Investigator: Dr. Mark M. Loux

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

ARM Action Codes

Subsamples, Dec.

GLYMX WEIGHT LBS 9-28-04 HARVEST	GLYMX MOISTURE PERCENT 9-28-04 HARVEST	GLYMX YIELD BU/ACRE 9-28-04 HARVEST TY1
1	1	1

Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	Appl Code	7	8	9
1	ROUNDUP WEATHERMAX 1 AMS	22 oz/a 4 qt/a		7 EPP 7 EPP	A	9.9 a	11.6 a	73.0 a
2	ROUNDUP WEATHERMAX 2 AMS	33 oz/a 4 qt/a		7 EPP 7 EPP	A	9.9 a	11.4 a	73.2 a
3	ROUNDUP WEATHERMAX 3 2,4-D ESTER 3 AMS	22 oz/a 1 pt/a 4 qt/a		7 EPP 7 EPP 7 EPP	A	9.6 a	11.6 a	71.1 a
4	ROUNDUP WEATHERMAX 4 2,4-D ESTER 4 AMS	22 oz/a 2 pt/a 4 qt/a		7 EPP 7 EPP 7 EPP	A	9.9 a	11.2 a	73.6 a
5	ROUNDUP WEATHERMAX 5 VALOR 5 AMS	22 oz/a 2 oz/a 4 qt/a		7 EPP 7 EPP 7 EPP	A	10.0 a	11.6 a	74.0 a
6	ROUNDUP WEATHERMAX 6 VALOR 6 2,4-D ESTER 6 AMS	22 oz/a 2 oz/a 1 pt/a 4 qt/a		7 EPP 7 EPP 7 EPP 7 EPP	A	10.5 a	11.5 a	77.3 a
7	ROUNDUP WEATHERMAX 7 AIM 7 2,4-D ESTER 7 AMS	22 oz/a 0.5 oz/a 1 pt/a 4 qt/a		7 EPP 7 EPP 7 EPP 7 EPP	A	9.9 a	11.7 a	73.2 a
8	ROUNDUP WEATHERMAX 8 CANOPY XL 3.5 OZ 8 F6025 8 QY998 8 AMS	22 oz/a 1.34 oz/a 2.18 oz/a 4 qt/a		7 EPP 7 EPP 7 EPP 7 EPP	A	10.6 a	11.6 a	77.9 a

(04SOYDAN1)

Ohio State University
Horticulture and Crop Science

Weed Code							
Crop Code					GLYMX	GLYMX	GLYMX
Rating Data Type					WEIGHT	MOISTURE	YIELD
Rating Unit					LBS	PERCENT	BU/ACRE
Rating Date					9-28-04	9-28-04	9-28-04
Trt-Eval Interval					HARVEST	HARVEST	HARVEST
ARM Action Codes							TY1
# Subsamples, Dec.					1	1	1

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	7	8	9
9	ROUNDUP WEATHERMAX	22 oz/a		7 EPP	A	10.3 a	11.4 a	76.1 a
9	CANOPY XL 3.5 OZ							
9	F6025	1.34 oz/a		7 EPP				
9	QY998	2.18 oz/a		7 EPP				
9	2,4-D ESTER	1 pt/a		7 EPP				
9	AMS	4 qt/a		7 EPP				
10	GRAMOXONE MAX	1.3 pt/a		7 EPP	A	10.4 a	11.6 a	76.7 a
10	CANOPY XL 3.5 OZ							
10	F6025	1.34 oz/a		7 EPP				
10	QY998	2.18 oz/a		7 EPP				
10	AMS	4 qt/a		7 EPP				
11	GRAMOXONE MAX	1.3 pt/a		7 EPP	A	10.6 a	11.5 a	78.1 a
11	CANOPY XL 3.5 OZ							
11	F6025	1.34 oz/a		7 EPP				
11	QY998	2.18 oz/a		7 EPP				
11	2,4-D ESTER	1 pt/a		7 EPP				
11	AMS	4 qt/a		7 EPP				
12	GRAMOXONE MAX	1.3 pt/a		7 EPP	A	10.1 a	11.9 a	74.5 a
12	SENCOR	8 oz/a		7 EPP				
12	2,4-D ESTER	1 pt/a		7 EPP				
12	COC	1.6 pt/a		7 EPP				
13	GRAMOXONE MAX	1.3 pt/a		7 EPP	A	9.7 a	11.3 a	72.0 a
13	CANOPY XL 3.5 OZ							
13	F6025	1.34 oz/a		7 EPP				
13	QY998	2.18 oz/a		7 EPP				
13	SENCOR	4 oz/a		7 EPP				
13	COC	1.6 pt/a		7 EPP				
14	GRAMOXONE MAX	1.3 pt/a		7 EPP	A	9.3 a	11.3 a	68.8 a
14	CANOPY XL 3.5 OZ							
14	F6025	1.34 oz/a		7 EPP				
14	QY998	2.18 oz/a		7 EPP				
14	SENCOR	4 oz/a		7 EPP				
14	2,4-D ESTER	1 pt/a		7 EPP				
14	COC	1.6 pt/a		7 EPP				

(04SOYDAN1)

Ohio State University
Horticulture and Crop Science

Weed Code				
Crop Code	GLYMX	GLYMX	GLYMX	
Rating Data Type	WEIGHT	MOISTURE	YIELD	
Rating Unit	LBS	PERCENT	BU/ACRE	
Rating Date	9-28-04	9-28-04	9-28-04	
Trt-Eval Interval	HARVEST	HARVEST	HARVEST	
ARM Action Codes				TY1
# Subsamples, Dec.	1	1	1	

Trt	Treatment	Product	Product	Grow	Appl				
No.	Name	Rate	Rate	Unit	Stg	Code	7	8	9
LSD (P=.05)							0.97	0.53	7.05
Standard Deviation							0.58	0.31	4.20
CV							5.73	2.72	5.66
Replicate F							4.033	1.794	3.899
Replicate Prob(F)							0.0298	0.1862	0.0330
Treatment F							1.256	1.022	1.247
Treatment Prob(F)							0.2991	0.4609	0.3044

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Column 3: TY1 = $7.26 * [C7] * (100 - [C8]) / 87$