

(04SOYDAN1nw)

Ohio State University  
Horticulture and Crop Science

DANDELION BURNDOWN TRIAL IN SOYBEAN

Trial ID: 04SOYDAN1nw      Study Dir.: Anthony F. Dobbels  
Location: NORTHWEST BRANCH      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

SOIL DESCRIPTION

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

APPLICATION DESCRIPTION

A

Application Date: 4-20-04  
Time of Day: 8:30 A.M.  
Application Method: SPRAY  
Application Timing: 7 EPP  
Applic. Placement: BROADCAST  
Air Temp., Unit: 45    F  
% Relative Humidity: 75  
Wind Velocity, Unit: 9    E  
Soil Temp., Unit: 48    F  
Soil Moisture: DRY/DRY  
% Cloud Cover: 100

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: GLXMA

WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage: TAROF 6-8"  
Stage Scale: >12 LVS  
Density, Unit: 24    M2

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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

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Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

ARM Action Codes

# Subsamples, Dec.

GLYMX WEIGHT	GLYMX MOISTURE	GLYMX YIELD
LBS	PERCENT	BU/ACRE
10-6-04	10-6-04	10-6-04
HARVEST	HARVEST	HARVEST
		TY1
1	1	1

Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	Appl Code	8	9	10
1	ROUNDUP WEATHERMAX	22 oz/a		7 EPP	A	9.8 def	12.0 bc	57.6 def
1	AMS	4 qt/a		7 EPP				
2	ROUNDUP WEATHERMAX	33 oz/a		7 EPP	A	10.1 b-e	12.3 b	59.3 cde
2	AMS	4 qt/a		7 EPP				
3	ROUNDUP WEATHERMAX	22 oz/a		7 EPP	A	11.6 ab	12.2 bc	68.0 abc
3	2,4-D ESTER	1 pt/a		7 EPP				
3	AMS	4 qt/a		7 EPP				
4	ROUNDUP WEATHERMAX	22 oz/a		7 EPP	A	11.6 abc	12.1 bc	67.9 abc
4	2,4-D ESTER	2 pt/a		7 EPP				
4	AMS	4 qt/a		7 EPP				
5	ROUNDUP WEATHERMAX	22 oz/a		7 EPP	A	9.0 ef	11.2 cd	53.2 ef
5	VALOR	2 oz/a		7 EPP				
5	AMS	4 qt/a		7 EPP				
6	ROUNDUP WEATHERMAX	22 oz/a		7 EPP	A	10.2 b-e	10.9 d	60.3 cde
6	VALOR	2 oz/a		7 EPP				
6	2,4-D ESTER	1 pt/a		7 EPP				
6	AMS	4 qt/a		7 EPP				
7	ROUNDUP WEATHERMAX	22 oz/a		7 EPP	A	9.8 def	11.6 bcd	57.6 def
7	AIM	0.5 oz/a		7 EPP				
7	AMS	4 qt/a		7 EPP				
8	ROUNDUP WEATHERMAX	22 oz/a		7 EPP	A	10.8 bcd	11.5 bcd	63.9 bcd
8	AIM	0.5 oz/a		7 EPP				
8	2,4-D ESTER	1 pt/a		7 EPP				
8	AMS	4 qt/a		7 EPP				

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Weed Code							
Crop Code					GLYMX	GLYMX	GLYMX
Rating Data Type					WEIGHT	MOISTURE	YIELD
Rating Unit					LBS	PERCENT	BU/ACRE
Rating Date					10-6-04	10-6-04	10-6-04
Trt-Eval Interval					HARVEST	HARVEST	HARVEST
ARM Action Codes							TY1
# Subsamples, Dec.					1	1	1

Trt No.	Treatment	Product Rate	Product Rate Unit	Grow Stg	Appl Code	8	9	10
9	ROUNDUP WEATHERMAX	22 oz/a		7 EPP	A	12.5 a	11.4 bcd	73.8 a
9	CANOPY XL 3.5 OZ							
9	F6025	1.34 oz/a		7 EPP				
9	QY998	2.18 oz/a		7 EPP				
9	AMS	4 qt/a		7 EPP				
10	ROUNDUP WEATHERMAX	22 oz/a		7 EPP	A	12.6 a	12.1 bc	73.6 ab
10	CANOPY XL 3.5 OZ							
10	F6025	1.34 oz/a		7 EPP				
10	QY998	2.18 oz/a		7 EPP				
10	2,4-D ESTER	1 pt/a		7 EPP				
10	AMS	4 qt/a		7 EPP				
11	GRAMOXONE MAX	1.3 pt/a		7 EPP	A	9.9 c-f	12.3 b	58.0 def
11	CANOPY XL 3.5 OZ							
11	F6025	1.34 oz/a		7 EPP				
11	QY998	2.18 oz/a		7 EPP				
11	AMS	4 qt/a		7 EPP				
12	GRAMOXONE MAX	1.3 pt/a		7 EPP	A	10.8 bcd	12.2 bc	63.1 cd
12	CANOPY XL 3.5 OZ							
12	F6025	1.34 oz/a		7 EPP				
12	QY998	2.18 oz/a		7 EPP				
12	2,4-D ESTER	1 pt/a		7 EPP				
12	AMS	4 qt/a		7 EPP				
13	GRAMOXONE MAX	1.3 pt/a		7 EPP	A	8.5 f	12.3 b	49.5 f
13	SENCOR	8 oz/a		7 EPP				
13	2,4-D ESTER	1 pt/a		7 EPP				
13	COC	1.6 pt/a		7 EPP				
14	GRAMOXONE MAX	1.3 pt/a		7 EPP	A	10.1 b-e	12.1 bc	59.3 cde
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	COC	1.6 pt/a		7 EPP				

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Weed Code			
Crop Code	GLYMX	GLYMX	GLYMX
Rating Data Type	WEIGHT	MOISTURE	YIELD
Rating Unit	LBS	PERCENT	BU/ACRE
Rating Date	10-6-04	10-6-04	10-6-04
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	8	9	10
15	GRAMOXONE MAX	1.3	pt/a	7 EPP	A	10.4 b-e	11.6 bcd	61.3 cde
15	CANOPY XL 3.5 OZ							
15	F6025	1.34	oz/a	7 EPP				
15	QY998	2.18	oz/a	7 EPP				
15	SENCOR	4	oz/a	7 EPP				
15	2,4-D ESTER	1	pt/a	7 EPP				
15	COC	1.6	pt/a	7 EPP				
16	UTC				B	5.8 g	14.0 a	33.3 g
LSD (P=.05)						1.65	1.04	9.81
Standard Deviation						0.99	0.62	5.89
CV						9.69	5.21	9.81
Replicate F						13.577	5.255	12.140
Replicate Prob(F)						0.0001	0.0110	0.0001
Treatment F						8.117	3.521	8.180
Treatment Prob(F)						0.0001	0.0016	0.0001

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 = 5.808\*[C8]\*(100-[C9])/87