

(04NTS1)

Ohio State University  
Horticulture and Crop Science

NO-TILL BURNDOWN IN SOYBEAN I

Trial ID: 04NTS1 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.	STEME Common chickweed	Stellaria media
3.	LAMPU Deadnettle, Red	Lamium purpureum

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: 6.67 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

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: STEME >12"  
Stage Scale: >12 LVS  
Density, Unit: 13 M2  
Weed 3 Code, Stage: LAMPU 4-6"  
Stage Scale: >12 LVS  
Density, Unit: 8.6 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

Trt No Treatment Application Comment  
NO TREATMENT HAD BETTER THAN 20% CONTROL 3 DAT



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

LAMPU      TAROF      STEME      LAMPU  
CONTROL   CONTROL   CONTROL   CONTROL  
PERCENT   PERCENT   PERCENT   PERCENT  
5-21-04   6-3-04   6-3-04   6-3-04  
29 DA-A   AT POST   AT POST   AT POST  
0           0           0           0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	9	10	11	12
1	AIM	0.51	oz/a	7	EPP A	100	87	85	58
1	ROUNDUP WEATHERMAX	14.2	oz/a	7	EPP				
1	2,4-D	1	pt/a	7	EPP				
1	AMS	4	qt/a	7	EPP				
2	AIM	0.51	oz/a	7	EPP A	95	82	78	58
2	ROUNDUP WEATHERMAX	14.2	oz/a	7	EPP				
2	AMS	4	qt/a	7	EPP				
3	AIM	0.77	oz/a	7	EPP A	97	85	67	52
3	ROUNDUP WEATHERMAX	21.3	oz/a	7	EPP				
3	AMS	4	qt/a	7	EPP				
4	ROUNDUP WEATHERMAX	14.2	oz/a	7	EPP A	88	92	65	43
4	AMS	4	qt/a	7	EPP				
5	ROUNDUP WEATHERMAX	21.3	oz/a	7	EPP A	97	87	58	35
5	AMS	4	qt/a	7	EPP				
6	ROUNDUP WEATHERMAX	9	oz/a	7	EPP A	82	50	43	65
6	CHOICE WM	0.4	qt/a	7	EPP				
7	ROUNDUP WEATHERMAX	9	oz/a	7	EPP A	90	35	64	70
7	SALVO	8	oz/a	7	EPP				
7	CHOICE WM	0.4	qt/a	7	EPP				
8	ROUNDUP WEATHERMAX	9	oz/a	7	EPP A	92	48	66	52
8	SALVO	12	oz/a	7	EPP				
8	CHOICE WM	0.4	qt/a	7	EPP				
9	ROUNDUP WEATHERMAX	9	oz/a	7	EPP A	88	52	72	75
9	PCC 1276	8	oz/a	7	EPP				
9	CHOICE WM	0.4	qt/a	7	EPP				
10	ROUNDUP WEATHERMAX	9	oz/a	7	EPP A	85	78	63	53
10	PCC 1276	12	oz/a	7	EPP				
10	CHOICE WM	0.4	qt/a	7	EPP				
11	ROUNDUP WEATHERMAX	9	oz/a	7	EPP A	92	65	62	60
11	SALVO	8	oz/a	7	EPP				
11	CHOICE WM	0.4	qt/a	7	EPP				
11	LIBERATE	6.4	oz/a	7	EPP				
12	UTC					0	0	0	0
LSD (P=.05)						8.2	28.1	35.6	35.7
Standard Deviation						4.8	16.6	21.0	21.1
CV						5.76	26.16	34.81	40.7
Replicate F						2.236	0.053	4.636	5.868
Replicate Prob(F)						0.1306	0.9484	0.0215	0.0091
Treatment F						93.081	8.226	3.166	2.598
Treatment Prob(F)						0.0001	0.0001	0.0112	0.0272