

(04NTS3)

Ohio State University
Horticulture and Crop Science

DANDELION CONTROL WITH ETK-751 AND LABS 141-F01 IN SOYBEAN

Trial ID: 04NTS3 Study Dir.: Anthony F. Dobbels
Location: WESTERN ENTOMOLOGY W-3 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. ERICA	Horseweed	Conyza canadensis

Crop 1: GLXMA SOYBEAN Variety: PIONEER 93B36
Planting Date: 6-3-04 Planting Method: JOHN DEERE 7200
Rate: 205000 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: 3.0 Texture: silty clay loam
pH: 6.1 Soil Name: Kokomo
CEC: 18

APPLICATION DESCRIPTION

A

Application Date: 5-28-04
Time of Day: 9:00 A.M.
Application Method: SPRAY
Application Timing: 7 EPP
Applic. Placement: BROADCAST
Air Temp., Unit: 65 F
% Relative Humidity: 96
Wind Velocity, Unit: 6 S
Soil Temp., Unit: 63 F
Soil Moisture: WET/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 12-24"
Stage Scale: >12 LVS
Density, Unit: 7.3 M2
Weed 2 Code, Stage: STEME 8-12"
Stage Scale: >12 LVS
Density, Unit: 26.6 M2
Weed 3 Code, Stage: ERICA 4-6"
Stage Scale: >12 LVS
Density, Unit: 40.3 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

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Weed Code	TAROF	TAROF
Rating Data Type	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT
Rating Date	6-8-04	6-24-04
Trt-Eval Interval	11 DA-A	27 DA-A
# Subsamples, Dec.	0	0

Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	Appl Code	1	2
1	ROUNDUP WEATHERMAX	0.67	qt/a	7 EPP	A	88	88
1	ETK-751	0.5	oz/a	7 EPP			
1	AMS	4	qt/a	7 EPP			
2	ROUNDUP WEATHERMAX	0.67	qt/a	7 EPP	A	83	92
2	ETK-751	1	oz/a	7 EPP			
2	AMS	4	qt/a	7 EPP			
3	LABS 141-F01	12.8	oz/a	7 EPP	A	63	67
3	COC	0.8	qt/a	7 EPP			
4	LABS 141-F01	12.8	oz/a	7 EPP	A	62	72
4	ETK-751	0.5	oz/a	7 EPP			
4	COC	0.8	qt/a	7 EPP			
5	ROUNDUP WEATHERMAX	0.67	qt/a	7 EPP	A	80	90
5	LABS 141-F01	12.8	oz/a	7 EPP			
5	AMS	4	qt/a	7 EPP			
6	ROUNDUP WEATHERMAX	0.67	qt/a	7 EPP	A	83	90
6	AMS	4	qt/a	7 EPP			
7	2,4-D	1	pt/a	7 EPP	A	50	60
7	COC	0.8	qt/a	7 EPP			
8	ROUNDUP WEATHERMAX	0.67	qt/a	7 EPP	A	60	93
8	2,4-D	1	pt/a	7 EPP			
8	AMS	4	qt/a	7 EPP			
9	ROUNDUP WEATHERMAX	0.67	qt/a	7 EPP	A	82	88
9	AIM	0.5	oz/a	7 EPP			
9	AMS	4	qt/a	7 EPP			
10	UTC					0	0
LSD (P=.05)						7.1	10.3
Standard Deviation						4.1	6.0
CV						6.35	8.15
Replicate F						1.216	3.366
Replicate Prob(F)						0.3196	0.0573
Treatment F						120.805	67.237
Treatment Prob(F)						0.0001	0.0001