

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

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 CONTROL PERCENT | TAROF CONTROL PERCENT | TAROF CONTROL PERCENT | TAROF CONTROL PERCENT | TAROF CONTROL PERCENT |
|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Rating Data Type | 4-27-04 | 5-4-04 | 5-18-04 | 6-4-04 | 7-4-04 |
| Rating Unit | 7 DA-A | 14 DA-A | 28 DA-A | AT POST | 28 DAPO |
| Rating Date | | | | | |
| Trt-Eval Interval | | | | | |
| # Subsamples, Dec. | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 1 | 2 | 3 | 4 | 5 |
|--------------------|---|--|-------------------|----------|-----------|-------|-------|-------|-------|------|
| 1 | ROUNDUP WEATHERMAX 1 AMS | 22 oz/a 4 qt/a | | 7 EPP | A | 23 | 22 | 28 | 52 | 82 |
| 2 | ROUNDUP WEATHERMAX 2 AMS | 33 oz/a 4 qt/a | | 7 EPP | A | 13 | 25 | 33 | 63 | 85 |
| 3 | ROUNDUP WEATHERMAX 3 2,4-D ESTER 3 AMS | 22 oz/a 1 pt/a 4 qt/a | | 7 EPP | A | 30 | 43 | 42 | 63 | 82 |
| 4 | ROUNDUP WEATHERMAX 4 2,4-D ESTER 4 AMS | 22 oz/a 2 pt/a 4 qt/a | | 7 EPP | A | 37 | 53 | 57 | 72 | 82 |
| 5 | ROUNDUP WEATHERMAX 5 VALOR 5 AMS | 22 oz/a 2 oz/a 4 qt/a | | 7 EPP | A | 43 | 72 | 82 | 62 | 82 |
| 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 | A | 53 | 73 | 83 | 60 | 83 |
| 7 | ROUNDUP WEATHERMAX 7 AIM 7 AMS | 22 oz/a 0.5 oz/a 4 qt/a | | 7 EPP | A | 43 | 50 | 53 | 48 | 80 |
| 8 | ROUNDUP WEATHERMAX 8 AIM 8 2,4-D ESTER 8 AMS | 22 oz/a 0.5 oz/a 1 pt/a 4 qt/a | | 7 EPP | A | 40 | 57 | 47 | 57 | 78 |
| 9 | ROUNDUP WEATHERMAX 9 CANOPY XL 3.5 OZ 9 F6025 9 QY998 9 AMS | 22 oz/a 1.34 oz/a 2.18 oz/a 4 qt/a | | 7 EPP | A | 40 | 43 | 50 | 85 | 82 |
| 10 | ROUNDUP WEATHERMAX 10 CANOPY XL 3.5 OZ 10 F6025 10 QY998 10 2,4-D ESTER 10 AMS | 22 oz/a 1.34 oz/a 2.18 oz/a 1 pt/a 4 qt/a | | 7 EPP | A | 47 | 53 | 67 | 90 | 85 |
| 11 | GRAMOXONE MAX 11 CANOPY XL 3.5 OZ 11 F6025 11 QY998 11 AMS | 1.3 pt/a 1.34 oz/a 2.18 oz/a 4 qt/a | | 7 EPP | A | 47 | 47 | 70 | 58 | 83 |
| 12 | GRAMOXONE MAX 12 CANOPY XL 3.5 OZ 12 F6025 12 QY998 12 2,4-D ESTER 12 AMS | 1.3 pt/a 1.34 oz/a 2.18 oz/a 1 pt/a 4 qt/a | | 7 EPP | A | 50 | 47 | 68 | 57 | 83 |
| 13 | GRAMOXONE MAX 13 SENCOR 13 2,4-D ESTER 13 COC | 1.3 pt/a 8 oz/a 1 pt/a 1.6 pt/a | | 7 EPP | A | 43 | 40 | 7 | 0 | 82 |
| 14 | GRAMOXONE MAX 14 CANOPY XL 3.5 OZ 14 F6025 14 QY998 14 SENCOR 14 COC | 1.3 pt/a 1.34 oz/a 2.18 oz/a 4 oz/a 1.6 pt/a | | 7 EPP | A | 43 | 50 | 57 | 50 | 83 |
| 15 | GRAMOXONE MAX 15 CANOPY XL 3.5 OZ 15 F6025 15 QY998 15 SENCOR 15 2,4-D ESTER 15 COC | 1.3 pt/a 1.34 oz/a 2.18 oz/a 4 oz/a 1 pt/a 1.6 pt/a | | 7 EPP | A | 40 | 53 | 65 | 43 | 82 |
| 16 | UTC | | | | B | 0 | 0 | 0 | 0 | 75 |
| LSD (P=.05) | | | | | | 8.9 | 8.9 | 19.1 | 14.5 | 6.8 |
| Standard Deviation | | | | | | 5.3 | 5.3 | 11.4 | 8.7 | 4.1 |
| CV | | | | | | 14.35 | 11.74 | 22.63 | 16.17 | 4.99 |

(04SOYDAN1nw)

Ohio State University
Horticulture and Crop Science

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|--------------------|---------|---------|---------|---------|---------|
| Weed Code | TAROF | TAROF | TAROF | TAROF | TAROF |
| Rating Data Type | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL |
| Rating Unit | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT |
| Rating Date | 4-27-04 | 5-4-04 | 5-18-04 | 6-4-04 | 7-4-04 |
| Trt-Eval Interval | 7 DA-A | 14 DA-A | 28 DA-A | AT POST | 28 DAPO |
| # Subsamples, Dec. | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 1 | 2 | 3 | 4 | 5 |
|---------|----------------|--------------|-------------------|----------|-----------|---|---|---|---|---|
|---------|----------------|--------------|-------------------|----------|-----------|---|---|---|---|---|

| | | | | | |
|-------------------|--------|--------|--------|--------|--------|
| Replicate F | 7.353 | 6.580 | 1.259 | 0.331 | 0.031 |
| Replicate Prob(F) | 0.0025 | 0.0043 | 0.2984 | 0.7209 | 0.9692 |
| Treatment F | 21.000 | 34.361 | 13.243 | 23.478 | 1.100 |
| Treatment Prob(F) | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.3966 |