Purdue University

Dandelion Control Timing Study with Glyphosate and 2,4-D

Trial ID: 04F-WBURN-DANDTIM   Study Dir.: Dr. Bill Johnson
Location: Woodburn   Investigator: Dr. Bill Johnson

GENERAL TRIAL INFORMATION

Study Director: Dr. Bill Johnson
Investigator: Dr. Bill Johnson

TRIAL LOCATION

City: Woodburn
State/Prov.: IN
Postal Code: 46797
Unit: ft

COOPERATOR/LANDOWNER

Cooperator: Roger Hadley, II
Phone No: 260-632-5505

Address 1: 5505 Bull Rapids Rd.
City: Woodburn
State/Prov: IN
Postal Code: 46797

Conducted Under GLP (Y/N): N   Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

<table>
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<tr>
<th>Weed Code</th>
<th>Common Name</th>
<th>Scientific Name</th>
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<td>TAROF DANDELION, COMMON</td>
<td>TARAXACUM OFFICINALE WEBER IN WIGGERS</td>
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Crop 1: GLXMA SOYBEAN

Planting Method: DRILLED

Emergence Date: 14/May/2004

SITE AND DESIGN

Plot Width, Unit: 10 FT   Plot Length, Unit: 30 FT   Reps: 4
Tillage Type: no-till
Study Design: RANDOMIZED COMPLETE BLOCK

Previous Crops: field corn
Previous Pesticides: 2004

MAINTENANCE

Field Prep./Maintenance:

June 4, 2004 - Blanket maintenance application made to entire study area with 15' sprayer mounted on 4-wheeler.

Fusion @ 14 oz/acre
Flexstar @ 1 pt/acre
Outlook @ 7 oz/acre
MSO @ 1% v/v
AMS @ 2.5 #/acre

SOIL DESCRIPTION

% OM: 3
Texture: medium/fine (silt loam/silty clay loam)
pH: 6.5
Soil Name: Hoytville-Nappanee
CEC: 18
Fert. Level: good

APPLICATION DESCRIPTION

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<th>D</th>
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<th>TAROF 50%fl,bud</th>
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### Treatment Application Comment

1. Intermittent light mist/rain before & during application
2. Intermittent light mist/rain before & during application
3. Intermittent light mist/rain before & during application

**Trial Comments**
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<th>Date</th>
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<th>Remarks</th>
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<tr>
<td>November 17, 2004</td>
<td>Vegetative</td>
<td>90% corn harvest residue</td>
<td>New dandelion seedlings are present in all plots. Plants are &lt;1.5 in Dia at a density of 10-12 per sq ft.</td>
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<td>April 1, 2004</td>
<td>Buds observed in crown</td>
<td>60% corn harvest residue</td>
<td>Crop injury observations in plots 109, 110, 111, and 122 are most likely due to drift from the May 20 applications to plots 119, 120, &amp; 121 (soybeans were planted 5/6/2004). Plot layout involved each rep consisting of 2 blocks (i.e., plots 101-111 and 112-122 arranged south to north with plots 101-111 on the east side of the study area).</td>
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<td>April 9, 2004</td>
<td>Early bud formation</td>
<td>60% corn harvest residue</td>
<td>October 7, 2004 Post harvest dandelion counts. Physical counts collected from 2 rows (15-inch rows) by 30 feet. Total area represented is 75 sq. ft. (30' x 2.5').</td>
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<td>50% bud / 50% flowering</td>
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### Plot Data Summary

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**Weed Code**: TAROF

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**Crop Stage Scale**: 1-2"

**Weed Stage**: 12-16" 8-12" 12-20"

**Assessed By**: WGJ+EO EC+RD

**Trt-Eval Interval**: 135 DA-A 163 DA-A 196 DA-A

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### Purdue University

**Dandelion Control Timing Study with Glyphosate and 2,4-D**

**Trial ID:** 04F-WBURN-DANDTIM  
**Study Dir.:** Dr. Bill Johnson  
**Location:** Woodburn  
**Investigator:** Dr. Bill Johnson

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<td>D</td>
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**Note:** The table above details the treatment intervals and control percentages for dandelion control at various stages and dates, with specific product names and application rates provided for comparison.
## Purdue University

### AOV Means Table

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### Crop Code

- GLXMA

### Rating Data Type

- Control

### Rating Date

- 1/Apr/2005

### Weed Stage

- VC, unifo

### Crop Stage

- 12-16

### Crop Stage Scale

- 1-2"

### Weed Stage

- 12-16

### Assessed By

- WGJ+EO

### Trt-Eval Interval

- 135 DA-A

### Treatment

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<th>Product Rate</th>
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### LSD (P=.05)

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<th>Rate</th>
<th>Unit</th>
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<th>Appl</th>
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### Grand Mean

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### Bartlett's X2

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<th>Rate</th>
<th>Unit</th>
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<th>Appl</th>
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</thead>
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### P(Bartlett's X2)

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<th>Rate</th>
<th>Unit</th>
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<th>Appl</th>
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### Replicate F

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<th>Appl</th>
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### Replicate Prob(F)

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<th>Rate</th>
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<th>Appl</th>
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</thead>
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### Treatment F

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### Treatment Prob(F)

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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.

Untreated treatment(s) 22 excluded from analysis.
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<th>Product Name</th>
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<th>Unit</th>
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<td>7</td>
<td>abc</td>
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<tr>
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Purdue University

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| LSD (P=.05) | 5.1 | 27.8 |
| Standard Deviation | 3.6 | 19.6 |
| CV | 59.44 | 41.68 |
| Grand Mean | 6.08 | 47.12 |
| Bartlett's X² | 34.224 | 36.757 |
| Pr(Bartlett's X²) | 0.025* | 0.013* |

| Replicate F | 2.267 | 6.175 |
| Replicate Prob(F) | 0.0899 | 0.0010 |
| Treatment F | 2.448 | 4.398 |
| Treatment Prob(F) | 0.0040 | 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.
Untreated treatment(s) 22 excluded from analysis.