

Purdue University

Fall and Spring Burndown Tank-Mix Treatments for Dandelion Control

Trial ID: 04F-WBURN-DAND
Location: Woodburn, IN

Study Dir.: Dr. Bill Johnson
Investigator: Dr. William G. Johnson

GENERAL TRIAL INFORMATION

Study Director: Vince Davis **Title:** Research Associate
Affiliation: Purdue University
Postal Code: 47907
Investigator: Dr. William G. Johnson **Title:** Associate Professor
Affiliation: Purdue University
Postal Code: 47907

TRIAL LOCATION

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

Unit: feet

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

Objective: The objective of this study was to compare the efficacy of various treatments on dandelion.

CROP AND WEED DESCRIPTION

| Weed | Code | Common Name | Scientific Name |
|------|-------|----------------------|------------------|
| 1. | TAROF | Taraxacum officinale | Common dandelion |

Crop 1: GLXMA SOYBEAN
Planting Date: 11/May/2005 **Planting Method:** DIRECT DRILLED
Row Spacing: 15 IN

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 | Previous Pesticides | Year |
|----|----------------|---------------------|------|
| 1. | field corn | | 2004 |

MAINTENANCE

Field Prep./Maintenance:

Blanket treatment of Roundup Weathermax (22 oz) applied with 4-wheeler (06/04/2004)

SOIL DESCRIPTION

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

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APPLICATION DESCRIPTION

| | A | B | C | D |
|----------------------|-------------|------------|-------------|-------------|
| Application Date: | 17/Nov/2004 | 1/Apr/2005 | 11/Apr/2005 | 21/Apr/2005 |
| Time of Day: | 1330-1420 | 840-855 | 900-930 | 1040-1045 |
| Application Method: | SPRAY | SPRAY | SPRAY | SPRAY |
| Application Timing: | FALBD | 45EPP | 30EPP | 15EPP |
| Applic. Placement: | BROFOL | BROFOL | BROFOL | BANFOL |
| Air Temp., Unit: | 56 F | 55 F | 63 C | 54 F |
| % Relative Humidity: | 95 | 59 | 42 | 78 |
| Wind Velocity, Unit: | 6.5 MPH | 4 MPH | 8 MPH | 4.5 MPH |
| Soil Temp., Unit: | 48 F | 39 F | 49 F | 50 F |
| Soil Moisture: | wet | wet | DRY | WET |
| % Cloud Cover: | 100 | 50 | 20 | 100 |

CROP STAGE AT EACH APPLICATION

| | A | B | C | D |
|---------------------|-------|-------|-------|-------|
| Crop 1 Code, Stage: | GLXMA | GLXMA | GLXMA | GLXMA |
| Stage Scale: | NA | NA | NA | NA |
| | % | | | |

WEED STAGE AT EACH APPLICATION

| | A | B | C | D |
|---------------------|----------------|----------------|----------------|-----------------|
| Weed 1 Code, Stage: | TAROF 18-20 Lf | TAROF 12-16 lf | TAROF 12-18 lf | TAROF 50%fl,bud |
| Stage Scale: | 12-16" | 4-7" | 7-10" | 6-12" |
| Density, Unit: | 6 YD2 | 3 YD2 | 1 YD2 | 5-20 YD2 |

APPLICATION EQUIPMENT

| | A | B | C | D |
|-----------------------|-----------|-----------|-----------|-----------|
| Appl. Equipment: | CO2 Backp | CO2 Backp | CO2 Backp | CO2 Backp |
| Operating Pressure: | 26-27 psi | 26-27 psi | 26-27 psi | 26-27 psi |
| Nozzle Type: | XR VS | XR VS | XR VS | XR VS |
| Nozzle Size: | 8002 | 8002 | 8002 | 8002 |
| Nozzle Spacing, Unit: | 20 IN | 20 IN | 20 IN | 20 IN |
| Boom Length, Unit: | 10 FT | 10 FT | 10 FT | 10 FT |
| Ground Speed, Unit: | 3 MPH | 3 MPH | 3 MPH | 3 MPH |
| Carrier: | water | water | water | water |
| Spray Volume, Unit: | 15 gpa | 15 gpa | 15 gpa | 15 gpa |
| Propellant: | CO2 | CO2 | CO2 | CO2 |

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Fall and Spring Burndown Tank-Mix Treatments for Dandelion Control

Trial ID: 04F-WBURN-DAND
Location: Woodburn, IN

Study Dir.: Dr. Bill Johnson
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Trial Comments

11/17/2004 Note: Intermittent light mist before/during Fall burndown application

4/20/2004 Note: Ratings on this date collected for the fall applied treatments only.

6/4/2004 Note:

Blanket treatment of Roundup Weathermax (22 oz/acre) was applied to the entire experimental area using a 4-wheeler equipped with 15' boom. We will assess dandelion control 2 & 4 weeks after this blanket application. We will also try to assess efficacy (possibly counting dandelion rosettes) around the time of harvest. Rating information will be defined as DA-M (days after maintenance application).

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').

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 Location: Woodburn, IN

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| | | | | | | | | | TAROF | TAROF | GLXMA GLXMA | TAROF | TAROF |
|-----|------------------|---------|---------|---------|------------|-------|------|--------|------------------|-------------|----------------|------------|--------------------|
| | | | | | | | | | PLAQUA CONTRO | CONTRO | PHYGEN | CONTRO | PLAQUA P CONTRO |
| | | | | | | | | | % | % | % | % | % |
| | | | | | | | | | 1/Apr/2005 | 29/Apr/2005 | 1/Jun/2005 | 1/Jun/2005 | 29/Jun/2005 |
| | | | | | | | | | | | 1-2" | | |
| | | | | | | | | | | | VC,unfo | | |
| | | | | | | | | | 12-16 | 8-12" | VC 1-2" | 12-20" | 20-24" |
| | | | | | | | | | 3 YD2 | 30 YD2 | | 15 YD2 | 3.5 YD2 |
| | | | | | | | | | WGJ+EO | EC+RD | RD+VD | RD+VD | |
| | | | | | | | | | 216 DA-A | 163 DA-A | 196 DA-A | 196 DA-A | |
| Trt | Treatment | Rate | Rate | Product | Product | Grow | Appl | Plot | 1 | 2 | 3 | 4 | 5 |
| No. | Name | | Unit | Rate | Rate Unit | Stg | Code | | | | | | |
| 1 | Untreated Check | | | | | | | 101 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 402 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 603 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 701 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | Mean = | 0 | 0 | 0 | 0 | 0 |
| 2 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 102 | 92 | 60 | 0 | 50 | 90 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 312 | 98 | 80 | 0 | 70 | 85 |
| | Banvel | 0.188 | lb ae/a | 6 | oz/a | FALBD | A | 601 | 85 | 65 | 0 | 50 | 50 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | 809 | 85 | 80 | 0 | 78 | 75 |
| | | | | | | | | Mean = | 90 | 71 | 0 | 62 | 75 |
| 3 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 103 | 95 | 75 | 0 | 50 | 70 |
| | Express | 0.00586 | lb ai/a | 0.125 | oz/a | FALBD | A | 407 | 100 | 98 | 0 | 95 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 610 | 97 | 100 | 0 | 88 | 80 |
| | Banvel | 0.188 | lb ae/a | 6 | oz/a | FALBD | A | 807 | 90 | 85 | 0 | 70 | 50 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 96 | 90 | 0 | 76 | 75 |
| 4 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 104 | 93 | 55 | 0 | 40 | 90 |
| | Roundup | 0.56 | lb ae/a | 1.5 | pt/a | FALBD | A | 404 | 90 | 90 | 0 | 85 | 95 |
| | 2,4-D ESTER | 0.75 | lb ae/a | 1.5 | pt/a | FALBD | A | 611 | 100 | 97 | 0 | 96 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 808 | 93 | 85 | 0 | 80 | 60 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 94 | 82 | 0 | 75 | 86 |
| 5 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 105 | 97 | 80 | 0 | 65 | 70 |
| | Basis | 0.014 | lb ai/a | 0.3 | oz/a | FALBD | A | 410 | 100 | 98 | 0 | 95 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 508 | 100 | 95 | 0 | 93 | 97 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | 713 | 96 | 98 | 0 | 85 | 90 |
| | | | | | | | | Mean = | 98 | 93 | 0 | 85 | 89 |
| 6 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 106 | 97 | 100 | 5 | 90 | 97 |
| | V-10149 | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 313 | 100 | 100 | 0 | 100 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 604 | 90 | 100 | 0 | 95 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | 710 | 100 | 99 | 0 | 95 | 97 |
| | | | | | | | | Mean = | 97 | 100 | 1 | 95 | 99 |
| 7 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 107 | 98 | 100 | 10 | 85 | 90 |
| | V-10142 | 0.2 | lb ai/a | 7.76 | oz/a | FALBD | A | 405 | 100 | 98 | 0 | 97 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 606 | 95 | 100 | 0 | 98 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | 712 | 93 | 97 | 0 | 75 | 50 |
| | | | | | | | | Mean = | 97 | 99 | 3 | 89 | 85 |
| 8 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 108 | 98 | 100 | 0 | 93 | 100 |
| | Canopy EX | | | | oz/a | FALBD | A | 302 | 100 | 99 | 0 | 90 | 100 |
| | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 609 | 90 | 98 | 10 | 88 | 100 |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | 812 | 100 | 98 | 0 | 83 | 70 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 97 | 99 | 3 | 89 | 93 |

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| Weed Code | | | | | | | | | TAROF | TAROF | GLXMA | TAROF | TAROF |
|--------------------|--------------------------|--------|---------|--------------|-------------------|----------|-----------|--------|------------|-------------|------------|------------|-------------|
| Crop Code | | | | | | | | | PLAQUA | | GLXMA | | PLAQUA P |
| Part Rated | | | | | | | | | CONTRO | CONTRO | PHYGEN | CONTRO | CONTRO |
| Rating Data Type | | | | | | | | | % | % | % | % | % |
| Rating Unit | | | | | | | | | 1/Apr/2005 | 29/Apr/2005 | 1/Jun/2005 | 1/Jun/2005 | 29/Jun/2005 |
| Rating Date | | | | | | | | | | | 1-2" | | |
| Crop Stage | | | | | | | | | | | VC,unifo | | |
| Crop Stage Scale | | | | | | | | | | | VC 1-2" | 12-20" | 20-24" |
| Weed Stage | | | | | | | | | 12-16 | 8-12" | | 15 YD2 | 3.5 YD2 |
| Weed Density, Unit | | | | | | | | | 3 YD2 | 30 YD2 | | RD+VD | |
| Assessed By | | | | | | | | | WGJ+EO | EC+RD | RD+VD | RD+VD | |
| Tri-Eval Interval | | | | | | | | | 216 DA-A | 163 DA-A | 196 DA-A | 196 DA-A | |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | Plot | 1 | 2 | 3 | 4 | 5 |
| 9 | Canopy EX | | | | oz/a | FALBD | A | 109 | 100 | 100 | 0 | 90 | 100 |
| | Classic | 0.0156 | lb ae/a | 1 | oz/a | FALBD | A | 303 | 100 | 100 | 0 | 99 | 100 |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | 505 | 100 | 100 | 0 | 99 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 802 | 85 | 99 | 0 | 90 | 65 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 96 | 100 | 0 | 95 | 91 |
| 10 | Untreated Check | | | | | | | 110 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 409 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 510 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 811 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | Mean = | 0 | 0 | 0 | 0 | 0 |
| 11 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 111 | 100 | 85 | 0 | 50 | 70 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 311 | 100 | 100 | 0 | 97 | 100 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | 613 | 100 | 100 | 0 | 95 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 706 | 70 | 93 | 5 | 73 | 70 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 93 | 95 | 1 | 79 | 85 |
| 12 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 112 | 100 | 85 | 0 | 50 | 50 |
| | Range Star | 0.484 | lb ae/a | 16 | oz/a | FALBD | A | 304 | 97 | 97 | 0 | 85 | 97 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | 506 | 96 | 90 | 0 | 83 | 80 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 805 | 75 | 90 | 0 | 73 | 50 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 92 | 91 | 0 | 73 | 69 |
| 13 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 45 EPP | B | 113 | 0 | 85 | 0 | 78 | 97 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 45 EPP | B | 411 | 0 | 90 | 0 | 85 | 90 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 45 EPP | B | 605 | 0 | 98 | 0 | 93 | 97 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 45 EPP | B | 703 | 0 | 85 | 0 | 88 | 75 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 45 EPP | B | | | | | | |
| | | | | | | | | Mean = | 0 | 90 | 0 | 86 | 90 |
| 14 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 30 EPP | C | 201 | 0 | 50 | 0 | 98 | 80 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 30 EPP | C | 413 | 0 | 80 | 0 | 97 | 95 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 30 EPP | C | 509 | 0 | 50 | 0 | 93 | 99 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 30 EPP | C | 704 | 0 | 80 | 0 | 85 | 93 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 30 EPP | C | | | | | | |
| | | | | | | | | Mean = | 0 | 65 | 0 | 93 | 92 |
| 15 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 15 EPP | D | 202 | 0 | 15 | 0 | 85 | 90 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | 309 | 0 | 30 | 0 | 95 | 100 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 15 EPP | D | 602 | 0 | 25 | 0 | 83 | 50 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 709 | 0 | 10 | 0 | 85 | 85 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | | | | | | | | Mean = | 0 | 20 | 0 | 87 | 81 |
| 16 | GF-1279 (IPA-salt glyph) | 0.75 | lb ae/a | 24 | oz/a | FALBD | A | 203 | 85 | 85 | 0 | 75 | 60 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 406 | 98 | 98 | 0 | 93 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 612 | 100 | 99 | 0 | 99 | 100 |
| | | | | | | | | 810 | 95 | 93 | 0 | 88 | 60 |
| | | | | | | | | Mean = | 95 | 94 | 0 | 89 | 80 |

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| Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Crop Stage Crop Stage Scale Weed Stage Weed Density, Unit Assessed By Tri-Eval Interval | | | | | | | | TAROF | TAROF | GLXMA GLXMA | TAROF | TAROF | |
|--|-----------------|---------|-----------|--------------|-------------------|----------|-----------|--------------------------------------|--------------------------------------|---|---------------------------------------|--------------------|-----|
| | | | | | | | | PLAQUA CONTRO | CONTRO | PHYGEN | CONTRO | PLAQUA P CONTRO | |
| | | | | | | | | % 1/Apr/2005 | % 29/Apr/2005 | % 1/Jun/2005 | % 1/Jun/2005 | % 29/Jun/2005 | |
| | | | | | | | | 12-16 3 YD2 WGJ+EO 216 DA-A | 8-12" 30 YD2 EC+RD 163 DA-A | 1-2" VC,unifo VC 1-2" 196 DA-A | 12-20" 15 YD2 RD+VD 196 DA-A | 20-24" 3.5 YD2 | |
| Trt No. | Treatment Name | Rate | Rate Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | Plot | 1 | 2 | 3 | 4 | 5 |
| 17 | Classic | 0.0313 | lb ai/a | 2 | oz/a | FALBD | A | 204 | 93 | 100 | 0 | 80 | 98 |
| | Express | 0.0094 | lb ai/a | 0.2 | oz/a | FALBD | A | 305 | 100 | 100 | 0 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 513 | 100 | 100 | 5 | 100 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 707 | 80 | 100 | 0 | 88 | 80 |
| | | | | | | | | Mean = | 93 | 100 | 1 | 92 | 95 |
| 18 | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 205 | 95 | 100 | 0 | 80 | 70 |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | 403 | 98 | 100 | 0 | 95 | 98 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 502 | 95 | 100 | 0 | 97 | 95 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 804 | 75 | 100 | 0 | 90 | 80 |
| | | | | | | | | Mean = | 91 | 100 | 0 | 91 | 86 |
| 19 | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 206 | 93 | 100 | 0 | 90 | 100 |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | 310 | 100 | 100 | 0 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 512 | 100 | 98 | 0 | 93 | 95 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 813 | 90 | 100 | 0 | 93 | 90 |
| | | | | | | | | Mean = | 96 | 100 | 0 | 94 | 96 |
| 20 | Untreated Check | | | | | | | 207 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 306 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 503 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 708 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | Mean = | 0 | 0 | 0 | 0 | 0 |
| 21 | Basis | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | 208 | 93 | 97 | 5 | 78 | 98 |
| | Express | 0.00586 | lb ai/a | 0.125 | oz/a | FALBD | A | 408 | 100 | 100 | 0 | 95 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 507 | 100 | 100 | 0 | 98 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 705 | 80 | 100 | 0 | 93 | 95 |
| | | | | | | | | Mean = | 93 | 99 | 1 | 91 | 98 |
| 22 | Matrix | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 209 | 93 | 100 | 0 | 75 | 97 |
| | Harmony GT | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | 308 | 100 | 100 | 0 | 99 | 100 |
| | Express | 0.0078 | lb ai/a | 0.167 | oz/a | FALBD | A | 608 | 92 | 100 | 0 | 95 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 711 | 100 | 99 | 0 | 95 | 90 |
| | Crop Oil Conc | 1 | % w/v | 1 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 96 | 100 | 0 | 91 | 97 |
| 23 | Matrix | 0.0625 | lb ai/a | 4 | oz/a | FALBD | A | 210 | 100 | 100 | 0 | 99 | 100 |
| | Harmony GT | 0.0623 | lb ai/a | 1.33 | oz/a | FALBD | A | 301 | 100 | 100 | 0 | 100 | 100 |
| | Express | 0.0314 | lb ai/a | 0.67 | oz/a | FALBD | A | 504 | 95 | 100 | 0 | 97 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 702 | 90 | 100 | 0 | 99 | 85 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 96 | 100 | 0 | 99 | 96 |
| 24 | Canopy XL | | | | | FALBD | A | 211 | 96 | 100 | 0 | 90 | 90 |
| | Classic | 0.0203 | lb ai/a | 1.3 | oz/a | FALBD | A | 401 | 90 | 100 | 0 | 80 | 98 |
| | Authority | 0.103 | lb ai/a | 2.2 | oz/a | FALBD | A | 607 | 98 | 100 | 0 | 93 | 100 |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | 806 | 65 | 99 | 0 | 90 | 90 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 87 | 100 | 0 | 88 | 95 |

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| | | | | | | | | | TAROF | TAROF | GLXMA GLXMA | TAROF | TAROF |
|---------|----------------|---------|-----------|--------------|-------------------|----------|-----------|--------|------------------|-------------|----------------|------------|--------------------|
| | | | | | | | | | PLAQUA CONTRO | CONTRO | PHYGEN | CONTRO | PLAQUA P CONTRO |
| | | | | | | | | | % | % | % | % | % |
| | | | | | | | | | 1/Apr/2005 | 29/Apr/2005 | 1/Jun/2005 | 1/Jun/2005 | 29/Jun/2005 |
| | | | | | | | | | 12-16 | 8-12" | 1-2" | 12-20" | 20-24" |
| | | | | | | | | | 3 YD2 | 30 YD2 | VC,unifo | 15 YD2 | 3.5 YD2 |
| | | | | | | | | | WGJ+EO | EC+RD | RD+VD | RD+VD | |
| | | | | | | | | | 216 DA-A | 163 DA-A | 196 DA-A | 196 DA-A | |
| Trt No. | Treatment Name | Rate | Rate Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | Plot | 1 | 2 | 3 | 4 | 5 |
| 25 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 212 | 100 | 100 | 0 | 88 | 100 |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | 412 | 90 | 100 | 0 | 93 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 511 | 98 | 98 | 0 | 50 | 60 |
| | | | | | | | | 801 | 75 | 90 | 0 | 50 | 40 |
| | | | | | | | | Mean = | 91 | 97 | 0 | 70 | 75 |
| 26 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 213 | 100 | 98 | 0 | 83 | 95 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 307 | 100 | 99 | 0 | 98 | 100 |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | 501 | 98 | 90 | 0 | 75 | 70 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 803 | 80 | 93 | 0 | 83 | 60 |
| | | | | | | | | Mean = | 95 | 95 | 0 | 85 | 81 |

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| Weed Code | | | | | | | | GLXMA | TAROF | TAROF | |
|--------------------|------------------|---------|-----------|--------------|-------------------|----------|-----------|-------------|-------------|-------------|----|
| Crop Code | | | | | | | | PLAQUA C | PLAQUA P | | |
| Part Rated | | | | | | | | CONTRO | CONTRO | | |
| Rating Data Type | | | | | | | | % | % | count | |
| Rating Unit | | | | | | | | 12/Jul/2005 | 12/Jul/2005 | 29/Sep/2005 | |
| Rating Date | | | | | | | | V4-R1 | | | |
| Crop Stage | | | | | | | | 4-14" | 4-12" | 8-16" | |
| Crop Stage Scale | | | | | | | | | 4.5 YD2 | 1 YD2 | |
| Weed Stage | | | | | | | | | | | |
| Weed Density, Unit | | | | | | | | | | | |
| Assessed By | | | | | | | | | | | |
| Tri-Eval Interval | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Rate Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | Plot | 6 | 7 | 8 |
| 1 | Untreated Check | | | | | | | 101 | 0 | 0 | 45 |
| | | | | | | | | 402 | 0 | 0 | 6 |
| | | | | | | | | 603 | 0 | 0 | 95 |
| | | | | | | | | 701 | 0 | 0 | 56 |
| | | | | | | | | Mean = | 0 | 0 | 51 |
| 2 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 102 | 0 | 60 | 11 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 312 | 0 | 95 | 0 |
| | Banvel | 0.188 | lb ae/a | 6 | oz/a | FALBD | A | 601 | 0 | 80 | 6 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | 809 | 0 | 100 | 3 |
| | | | | | | | | Mean = | 0 | 84 | 5 |
| 3 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 103 | 0 | 80 | 3 |
| | Express | 0.00586 | lb ai/a | 0.125 | oz/a | FALBD | A | 407 | 0 | 100 | 3 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 610 | 0 | 100 | 0 |
| | Banvel | 0.188 | lb ae/a | 6 | oz/a | FALBD | A | 807 | 0 | 93 | 4 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | |
| | | | | | | | | Mean = | 0 | 93 | 3 |
| 4 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 104 | 0 | 98 | 2 |
| | Roundup | 0.56 | lb ae/a | 1.5 | pt/a | FALBD | A | 404 | 0 | 100 | 0 |
| | 2,4-D ESTER | 0.75 | lb ae/a | 1.5 | pt/a | FALBD | A | 611 | 0 | 100 | 0 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 808 | 0 | 92 | 4 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | |
| | | | | | | | | Mean = | 0 | 98 | 2 |
| 5 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 105 | 0 | 96 | 0 |
| | Basis | 0.014 | lb ai/a | 0.3 | oz/a | FALBD | A | 410 | 0 | 100 | 0 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 508 | 0 | 100 | 0 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | 713 | 0 | 100 | 0 |
| | | | | | | | | Mean = | 0 | 99 | 0 |
| 6 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 106 | 0 | 98 | 0 |
| | V-10149 | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 313 | 0 | 100 | 0 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 604 | 0 | 95 | 4 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | 710 | 0 | 100 | 3 |
| | | | | | | | | Mean = | 0 | 98 | 2 |
| 7 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 107 | 15 | 95 | 0 |
| | V-10142 | 0.2 | lb ai/a | 7.76 | oz/a | FALBD | A | 405 | 0 | 99 | 0 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 606 | 0 | 100 | 0 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | 712 | 0 | 80 | 1 |
| | | | | | | | | Mean = | 4 | 94 | 0 |
| 8 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 108 | 0 | 100 | 0 |
| | Canopy EX | | | | oz/a | FALBD | A | 302 | 0 | 98 | 0 |
| | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 609 | 0 | 100 | 1 |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | 812 | 0 | 98 | 10 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | |
| | | | | | | | | Mean = | 0 | 99 | 3 |

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| Weed Code | | | | | | | | | GLXMA | TAROF | TAROF |
|--------------------|--------------------------|--------|---------|--------------|-------------------|----------|-----------|--------|-------------|-------------|-------------|
| Crop Code | | | | | | | | | PLAQUA C | PLAQUA P | |
| Part Rated | | | | | | | | | CONTRO | CONTRO | |
| Rating Data Type | | | | | | | | | % | % | count |
| Rating Unit | | | | | | | | | 12/Jul/2005 | 12/Jul/2005 | 29/Sep/2005 |
| Rating Date | | | | | | | | | V4-R1 | | |
| Crop Stage | | | | | | | | | 4-14" | | |
| Crop Stage Scale | | | | | | | | | | 4-12" | 8-16" |
| Weed Stage | | | | | | | | | | 4.5 YD2 | 1 YD2 |
| Weed Density, Unit | | | | | | | | | | | |
| Assessed By | | | | | | | | | | | |
| Tri-Eval Interval | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | Plot | 6 | 7 | 8 |
| 9 | Canopy EX | | | | oz/a | FALBD | A | 109 | 0 | 100 | 0 |
| | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 303 | 0 | 100 | 0 |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | 505 | 0 | 100 | 0 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 802 | 0 | 88 | 7 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | |
| | | | | | | | | Mean = | 0 | 97 | 2 |
| 10 | Untreated Check | | | | | | | 110 | 0 | 0 | 0 |
| | | | | | | | | 409 | 0 | 0 | 4 |
| | | | | | | | | 510 | 0 | 0 | 12 |
| | | | | | | | | 811 | 0 | 0 | 44 |
| | | | | | | | | Mean = | 0 | 0 | 15 |
| 11 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 111 | 0 | 80 | 0 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 311 | 0 | 98 | 0 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | 613 | 0 | 100 | 1 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 706 | 0 | 90 | 2 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | |
| | | | | | | | | Mean = | 0 | 92 | 1 |
| 12 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 112 | 0 | 78 | 2 |
| | Range Star | 0.484 | lb ae/a | 16 | oz/a | FALBD | A | 304 | 0 | 100 | 0 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | 506 | 0 | 98 | 1 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 805 | 0 | 85 | 5 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | |
| | | | | | | | | Mean = | 0 | 90 | 2 |
| 13 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 45 EPP | B | 113 | 0 | 100 | 1 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 45 EPP | B | 411 | 0 | 98 | 0 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 45 EPP | B | 605 | 0 | 100 | 0 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 45 EPP | B | 703 | 0 | 85 | 4 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 45 EPP | B | | | | |
| | | | | | | | | Mean = | 0 | 96 | 1 |
| 14 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 30 EPP | C | 201 | 0 | 98 | 0 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 30 EPP | C | 413 | 0 | 98 | 1 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 30 EPP | C | 509 | 0 | 100 | 2 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 30 EPP | C | 704 | 0 | 90 | 3 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 30 EPP | C | | | | |
| | | | | | | | | Mean = | 0 | 97 | 2 |
| 15 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 15 EPP | D | 202 | 0 | 90 | 0 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | 309 | 0 | 98 | 0 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 15 EPP | D | 602 | 0 | 80 | 2 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 709 | 0 | 95 | 4 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | |
| | | | | | | | | Mean = | 0 | 91 | 2 |
| 16 | GF-1279 (IPA-salt glyph) | 0.75 | lb ae/a | 24 | oz/a | FALBD | A | 203 | 0 | 85 | 3 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 406 | 0 | 98 | 0 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 612 | 0 | 100 | 0 |
| | | | | | | | | 810 | 0 | 95 | 4 |
| | | | | | | | | Mean = | 0 | 95 | 2 |

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| Weed Code | | | | | | | | | GLXMA | TAROF | TAROF |
|--------------------|-----------------|---------|-----------|--------------|-------------------|----------|-----------|------|-------------|-------------|-------------|
| Crop Code | | | | | | | | | PLAQUA C | PLAQUA P | |
| Part Rated | | | | | | | | | CONTRO | CONTRO | |
| Rating Data Type | | | | | | | | | % | % | count |
| Rating Unit | | | | | | | | | 12/Jul/2005 | 12/Jul/2005 | 29/Sep/2005 |
| Rating Date | | | | | | | | | V4-R1 | | |
| Crop Stage | | | | | | | | | 4-14" | 4-12" | 8-16" |
| Crop Stage Scale | | | | | | | | | | 4.5 YD2 | 1 YD2 |
| Weed Stage | | | | | | | | | | | |
| Weed Density, Unit | | | | | | | | | | | |
| Assessed By | | | | | | | | | | | |
| Tri-Eval Interval | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Rate Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | Plot | 6 | 7 | 8 |
| 17 | Classic | 0.0313 | lb ai/a | 2 | oz/a | FALBD | A | 204 | 0 | 100 | 0 |
| | Express | 0.0094 | lb ai/a | 0.2 | oz/a | FALBD | A | 305 | 0 | 100 | 0 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 513 | 0 | 100 | 0 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 707 | 0 | 95 | 1 |
| | Mean = | | | | | | | | 0 | 99 | 0 |
| 18 | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 205 | 0 | 90 | 0 |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | 403 | 0 | 100 | 0 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 502 | 0 | 99 | 4 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 804 | 0 | 99 | 0 |
| | Mean = | | | | | | | | 0 | 97 | 1 |
| 19 | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 206 | 0 | 98 | 0 |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | 310 | 0 | 100 | 0 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 512 | 0 | 98 | 0 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 813 | 0 | 98 | 1 |
| | Mean = | | | | | | | | 0 | 99 | 0 |
| 20 | Untreated Check | | | | | | | 207 | 0 | 0 | 0 |
| | | | | | | | | 306 | 0 | 0 | 1 |
| | | | | | | | | 503 | 0 | 0 | 25 |
| | | | | | | | | 708 | 0 | 0 | 94 |
| | Mean = | | | | | | | | 0 | 0 | 30 |
| 21 | Basis | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | 208 | 0 | 100 | 3 |
| | Express | 0.00586 | lb ai/a | 0.125 | oz/a | FALBD | A | 408 | 0 | 100 | 1 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 507 | 0 | 100 | 2 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 705 | 0 | 98 | 2 |
| | Mean = | | | | | | | | 0 | 100 | 2 |
| 22 | Matrix | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 209 | 0 | 100 | 0 |
| | Harmony GT | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | 308 | 0 | 100 | 0 |
| | Express | 0.0078 | lb ai/a | 0.167 | oz/a | FALBD | A | 608 | 0 | 100 | 0 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 711 | 0 | 98 | 0 |
| | Crop Oil Conc | 1 | % w/v | 1 | % v/v | FALBD | A | | | | |
| | Mean = | | | | | | | | 0 | 100 | 0 |
| 23 | Matrix | 0.0625 | lb ai/a | 4 | oz/a | FALBD | A | 210 | 15 | 100 | 2 |
| | Harmony GT | 0.0623 | lb ai/a | 1.33 | oz/a | FALBD | A | 301 | 0 | 98 | 0 |
| | Express | 0.0314 | lb ai/a | 0.67 | oz/a | FALBD | A | 504 | 0 | 100 | 0 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 702 | 0 | 98 | 3 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | |
| | Mean = | | | | | | | | 4 | 99 | 1 |
| 24 | Canopy XL | | | | | FALBD | A | 211 | 0 | 95 | 0 |
| | Classic | 0.0203 | lb ai/a | 1.3 | oz/a | FALBD | A | 401 | 0 | 98 | 0 |
| | Authority | 0.103 | lb ai/a | 2.2 | oz/a | FALBD | A | 607 | 0 | 100 | 0 |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | 806 | 0 | 93 | 3 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | |
| | Mean = | | | | | | | | 0 | 97 | 1 |

Purdue University

| Weed Code | | | | | | | | | GLXMA | TAROF | TAROF |
|--------------------|----------------|---------|-----------|--------------|-------------------|----------|-----------|--------|-------------|-------------|-------------|
| Crop Code | | | | | | | | | PLAQUA C | PLAQUA P | |
| Part Rated | | | | | | | | | CONTRO | CONTRO | |
| Rating Data Type | | | | | | | | | % | % | count |
| Rating Unit | | | | | | | | | 12/Jul/2005 | 12/Jul/2005 | 29/Sep/2005 |
| Rating Date | | | | | | | | | V4-R1 | | |
| Crop Stage | | | | | | | | | 4-14" | | |
| Crop Stage Scale | | | | | | | | | | 4-12" | 8-16" |
| Weed Stage | | | | | | | | | | 4.5 YD2 | 1 YD2 |
| Weed Density, Unit | | | | | | | | | | | |
| Assessed By | | | | | | | | | | | |
| Tri-Eval Interval | | | | | | | | | | | |
| Tri No. | Treatment Name | Rate | Rate Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | Plot | 6 | 7 | 8 |
| 25 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 212 | 0 | 100 | 0 |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | 412 | 0 | 100 | 0 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 511 | 0 | 88 | 0 |
| | | | | | | | | 801 | 0 | 60 | 40 |
| | | | | | | | | Mean = | 0 | 87 | 10 |
| 26 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 213 | 0 | 100 | 0 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 307 | 0 | 100 | 0 |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | 501 | 0 | 90 | 33 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 803 | 0 | 85 | 2 |
| | | | | | | | | Mean = | 0 | 94 | 9 |

Purdue University

Fall and Spring Burndown Tank-Mix Treatments for Dandelion Control

Trial ID: 04F-WBURN-DAND
 Location: Woodburn, IN

Study Dir.: Dr. Bill Johnson
 Investigator: Dr. William G. Johnson

| | | | | | | | TAROF | TAROF | GLXMA GLXMA | TAROF | TAROF | GLXMA PLAQUA C | |
|---------|------------------|---------|-----------|--------------|-------------------|----------|------------------|-------------|---------------------|------------|--------------------|--------------------|-----|
| | | | | | | | PLAQUA CONTRO | CONTRO | PHYGEN | CONTRO | PLAQUA P CONTRO | PLAQUA C CONTRO | |
| | | | | | | | % | % | % | % | % | % | |
| | | | | | | | 1/Apr/2005 | 29/Apr/2005 | 1/Jun/2005 | 1/Jun/2005 | 29/Jun/2005 | 12/Jul/2005 | |
| | | | | | | | 12-16 | 8-12" | 1-2" | 12-20" | 20-24" | V4-R1 4-14" | |
| | | | | | | | 3 YD2 | 30 YD2 | VC,unifo VC 1-2" | 15 YD2 | 3.5 YD2 | | |
| | | | | | | | WGJ+EO | EC+RD | RD+VD | RD+VD | | | |
| | | | | | | | 216 DA-A | 163 DA-A | 196 DA-A | 196 DA-A | | | |
| Trt No. | Treatment Name | Rate | Rate Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Untreated Check | | | | | | | 0 c | 0 g | 0 a | 0 h | 0 e | 0 a |
| 2 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 90 ab | 71 e | 0 a | 62 g | 75 cd | 0 a |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | | | | | |
| | Banvel | 0.188 | lb ae/a | 6 | oz/a | FALBD | A | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| 3 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 96 ab | 90 cd | 0 a | 76 d-g | 75 cd | 0 a |
| | Express | 0.00586 | lb ai/a | 0.125 | oz/a | FALBD | A | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | | | | | |
| | Banvel | 0.188 | lb ae/a | 6 | oz/a | FALBD | A | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| 4 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 94 ab | 82 d | 0 a | 75 d-g | 86 a-d | 0 a |
| | Roundup | 0.56 | lb ae/a | 1.5 | pt/a | FALBD | A | | | | | | |
| | 2,4-D ESTER | 0.75 | lb ae/a | 1.5 | pt/a | FALBD | A | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| 5 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 98 a | 93 abc | 0 a | 85 b-e | 89 abc | 0 a |
| | Basis | 0.014 | lb ai/a | 0.3 | oz/a | FALBD | A | | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| 6 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 97 a | 100 a | 1 a | 95 ab | 99 a | 0 a |
| | V-10149 | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| 7 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 97 a | 99 ab | 3 a | 89 a-d | 85 a-d | 4 a |
| | V-10142 | 0.2 | lb ai/a | 7.76 | oz/a | FALBD | A | | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| 8 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 97 a | 99 ab | 3 a | 89 a-d | 93 abc | 0 a |
| | Canopy EX | | | | oz/a | FALBD | A | | | | | | |
| | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | | | | | | |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| 9 | Canopy EX | | | | oz/a | FALBD | A | 96 a | 100 a | 0 a | 95 ab | 91 abc | 0 a |
| | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | | | | | | |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| 10 | Untreated Check | | | | | | | 0 c | 0 g | 0 a | 0 h | 0 e | 0 a |

Purdue University

| Weed Code | | | | | | | TAROF | TAROF | GLXMA GLXMA | TAROF | TAROF | GLXMA PLAQUA C CONTRO % | |
|--------------------|--------------------------|--------|-----------|--------------|-------------------|----------|-----------------------|-------------|----------------|-------------|-------------------------|----------------------------------|-----|
| Crop Code | | | | | | | PLAQUA CONTRO % | CONTRO % | PHYGEN % | CONTRO % | PLAQUA P CONTRO % | PLAQUA C CONTRO % | |
| Part Rated | | | | | | | 1/Apr/2005 | 29/Apr/2005 | 1/Jun/2005 | 1/Jun/2005 | 29/Jun/2005 | 12/Jul/2005 | |
| Rating Data Type | | | | | | | | | 1-2" | | | V4-R1 | |
| Rating Unit | | | | | | | | | VC,unifo | | | 4-14" | |
| Rating Date | | | | | | | | | VC 1-2" | | | | |
| Crop Stage | | | | | | | 12-16 | 8-12" | | 12-20" | 20-24" | | |
| Crop Stage Scale | | | | | | | 3 YD2 | 30 YD2 | | 15 YD2 | 3.5 YD2 | | |
| Weed Stage | | | | | | | WGJ+EO | EC+RD | RD+VD | RD+VD | | | |
| Weed Density, Unit | | | | | | | 216 DA-A | 163 DA-A | 196 DA-A | 196 DA-A | | | |
| Assessed By | | | | | | | | | | | | | |
| Tri-Eval Interval | | | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Rate Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 1 | 2 | 3 | 4 | 5 | 6 |
| 11 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 93 ab | 95 abc | 1 a | 79 c-f | 85 a-d | 0 a |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | | | | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| 12 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 92 ab | 91 bcd | 0 a | 73 efg | 69 d | 0 a |
| | Range Star | 0.484 | lb ae/a | 16 | oz/a | FALBD | A | | | | | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| 13 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 45 EPP | B | 0 c | 90 cd | 0 a | 86 a-e | 90 abc | 0 a |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 45 EPP | B | | | | | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 45 EPP | B | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 45 EPP | B | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 45 EPP | B | | | | | | |
| 14 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 30 EPP | C | 0 c | 65 e | 0 a | 93 ab | 92 abc | 0 a |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 30 EPP | C | | | | | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 30 EPP | C | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 30 EPP | C | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 30 EPP | C | | | | | | |
| 15 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 15 EPP | D | 0 c | 20 f | 0 a | 87 a-d | 81 a-d | 0 a |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 15 EPP | D | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| 16 | GF-1279 (IPA-salt glyph) | 0.75 | lb ae/a | 24 | oz/a | FALBD | A | 95 ab | 94 abc | 0 a | 89 a-d | 80 bcd | 0 a |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | | |
| 17 | Classic | 0.0313 | lb ai/a | 2 | oz/a | FALBD | A | 93 ab | 100 a | 1 a | 92 abc | 95 ab | 0 a |
| | Express | 0.0094 | lb ai/a | 0.2 | oz/a | FALBD | A | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| 18 | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 91 ab | 100 a | 0 a | 91 abc | 86 a-d | 0 a |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| 19 | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 96 ab | 100 a | 0 a | 94 ab | 96 ab | 0 a |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| 20 | Untreated Check | | | | | | | 0 c | 0 g | 0 a | 0 h | 0 e | 0 a |

Purdue University

| Weed Code | | | | | | | TAROF | TAROF | GLXMA | TAROF | TAROF | GLXMA | |
|--------------------|----------------|---------|-----------|--------------|-------------------|----------|------------|-------------|------------|------------|-------------|-------------|-----|
| Crop Code | | | | | | | PLAQUA | CONTRO | GLXMA | PLAQUA P | PLAQUA C | GLXMA | |
| Part Rated | | | | | | | CONTRO | CONTRO | PHYGEN | CONTRO | CONTRO | CONTRO | |
| Rating Data Type | | | | | | | % | % | % | % | % | % | |
| Rating Unit | | | | | | | 1/Apr/2005 | 29/Apr/2005 | 1/Jun/2005 | 1/Jun/2005 | 29/Jun/2005 | 12/Jul/2005 | |
| Rating Date | | | | | | | | | 1-2" | | | V4-R1 | |
| Crop Stage | | | | | | | | | VC,unifo | | | 4-14" | |
| Crop Stage Scale | | | | | | | | | VC 1-2" | 12-20" | 20-24" | | |
| Weed Stage | | | | | | | 12-16 | 8-12" | | 15 YD2 | 3.5 YD2 | | |
| Weed Density, Unit | | | | | | | 3 YD2 | 30 YD2 | | | | | |
| Assessed By | | | | | | | WGJ+EO | EC+RD | RD+VD | RD+VD | | | |
| Tri-Eval Interval | | | | | | | 216 DA-A | 163 DA-A | 196 DA-A | 196 DA-A | | | |
| Trt No. | Treatment Name | Rate | Rate Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 1 | 2 | 3 | 4 | 5 | 6 |
| 21 | Basis | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | 93 ab | 99 ab | 1 a | 91 abc | 98 a | 0 a |
| | Express | 0.00586 | lb ai/a | 0.125 | oz/a | FALBD | A | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| 22 | Matrix | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 96 a | 100 a | 0 a | 91 abc | 97 ab | 0 a |
| | Harmony GT | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | | | | | | |
| | Express | 0.0078 | lb ai/a | 0.167 | oz/a | FALBD | A | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | | | | | |
| | Crop Oil Conc | 1 | % w/v | 1 | % v/v | FALBD | A | | | | | | |
| 23 | Matrix | 0.0625 | lb ai/a | 4 | oz/a | FALBD | A | 96 a | 100 a | 0 a | 99 a | 96 ab | 4 a |
| | Harmony GT | 0.0623 | lb ai/a | 1.33 | oz/a | FALBD | A | | | | | | |
| | Express | 0.0314 | lb ai/a | 0.67 | oz/a | FALBD | A | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| 24 | Canopy XL | | | | | FALBD | A | 87 b | 100 a | 0 a | 88 a-d | 95 ab | 0 a |
| | Classic | 0.0203 | lb ai/a | 1.3 | oz/a | FALBD | A | | | | | | |
| | Authority | 0.103 | lb ai/a | 2.2 | oz/a | FALBD | A | | | | | | |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| 25 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 91 ab | 97 abc | 0 a | 70 fg | 75 cd | 0 a |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| 26 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 95 ab | 95 abc | 0 a | 85 a-e | 81 a-d | 0 a |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | | | | | |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| LSD (P=.05) | | | | | | | 8.6 | 9.0 | 2.4 | 14.2 | 17.8 | 2.9 | |
| Standard Deviation | | | | | | | 6.1 | 6.4 | 1.7 | 10.1 | 12.6 | 2.0 | |
| CV | | | | | | | 8.43 | 7.95 | 440.61 | 13.26 | 16.34 | 706.54 | |
| Grand Mean | | | | | | | 72.36 | 79.84 | 0.38 | 75.82 | 77.24 | 0.29 | |
| Bartlett's X2 | | | | | | | 26.716 | 100.373 | 4.058 | 46.225 | 42.986 | 0.0 | |
| P(Bartlett's X2) | | | | | | | 0.111 | 0.001* | 0.541 | 0.002* | 0.005* | 0.001* | |
| Replicate F | | | | | | | 12.753 | 5.893 | 1.116 | 10.334 | 13.010 | 2.083 | |
| Replicate Prob(F) | | | | | | | 0.0001 | 0.0011 | 0.3480 | 0.0001 | 0.0001 | 0.1095 | |
| Treatment F | | | | | | | 176.457 | 113.814 | 0.830 | 33.792 | 21.924 | 1.000 | |
| Treatment Prob(F) | | | | | | | 0.0001 | 0.0001 | 0.6923 | 0.0001 | 0.0001 | 0.4782 | |

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.

Purdue University

| Weed Code | | | | | | | | TAROF | TAROF |
|--------------------|--------------------|---------|-----------|--------------|-------------------|----------|-----------|-------------|-------------|
| Crop Code | | | | | | | | PLAQUA P | |
| Part Rated | | | | | | | | CONTRO | |
| Rating Data Type | | | | | | | | % | count |
| Rating Unit | | | | | | | | 12/Jul/2005 | 29/Sep/2005 |
| Rating Date | | | | | | | | | |
| Crop Stage | | | | | | | | 4-12" | 8-16" |
| Crop Stage Scale | | | | | | | | 4.5 YD2 | 1 YD2 |
| Weed Stage | | | | | | | | | |
| Weed Density, Unit | | | | | | | | | |
| Assessed By | | | | | | | | | |
| Tri-Eval Interval | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Rate Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 7 | 8 |
| 1 | Untreated Check | | | | | | | 0 d | 51 a |
| 2 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 84 c | 5 c |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | |
| | Banvel | 0.188 | lb ae/a | 6 | oz/a | FALBD | A | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | |
| 3 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 93 abc | 3 c |
| | Express | 0.00586 | lb ai/a | 0.125 | oz/a | FALBD | A | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | |
| | Banvel | 0.188 | lb ae/a | 6 | oz/a | FALBD | A | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | |
| 4 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 98 a | 2 c |
| | Roundup | 0.56 | lb ae/a | 1.5 | pt/a | FALBD | A | | |
| | 2,4-D ESTER | 0.75 | lb ae/a | 1.5 | pt/a | FALBD | A | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | |
| 5 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 99 a | 0 c |
| | Basis | 0.014 | lb ai/a | 0.3 | oz/a | FALBD | A | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | |
| 6 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 98 a | 2 c |
| | V-10149 | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | |
| 7 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 94 ab | 0 c |
| | V-10142 | 0.2 | lb ai/a | 7.76 | oz/a | FALBD | A | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | |
| 8 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 99 a | 3 c |
| | Canopy EX | | | | oz/a | FALBD | A | | |
| | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | | |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | |
| 9 | Canopy EX | | | | oz/a | FALBD | A | 97 a | 2 c |
| | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | | |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | |
| 10 | Untreated Check | | | | | | | 0 d | 15 bc |
| 11 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 92 abc | 1 c |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | |

Purdue University

| Weed Code | | | | | | | | TAROF | TAROF |
|--------------------|--------------------------|---------|-----------|--------------|-------------------|----------|-----------|-------------|-------------|
| Crop Code | | | | | | | | PLAQUA P | |
| Part Rated | | | | | | | | CONTRO | |
| Rating Data Type | | | | | | | | % | count |
| Rating Unit | | | | | | | | 12/Jul/2005 | 29/Sep/2005 |
| Rating Date | | | | | | | | | |
| Crop Stage | | | | | | | | 4-12" | 8-16" |
| Crop Stage Scale | | | | | | | | 4.5 YD2 | 1 YD2 |
| Weed Stage | | | | | | | | | |
| Weed Density, Unit | | | | | | | | | |
| Assessed By | | | | | | | | | |
| Tri-Eval Interval | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Rate Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 7 | 8 |
| 12 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 90 abc | 2 c |
| | Range Star | 0.484 | lb ae/a | 16 | oz/a | FALBD | A | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | |
| 13 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 45 EPP | B | 96 ab | 1 c |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 45 EPP | B | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 45 EPP | B | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 45 EPP | B | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 45 EPP | B | | |
| 14 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 30 EPP | C | 97 ab | 2 c |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 30 EPP | C | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 30 EPP | C | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 30 EPP | C | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 30 EPP | C | | |
| 15 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 15 EPP | D | 91 abc | 2 c |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 15 EPP | D | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | |
| 16 | GF-1279 (IPA-salt glyph) | 0.75 | lb ae/a | 24 | oz/a | FALBD | A | 95 ab | 2 c |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | |
| 17 | Classic | 0.0313 | lb ai/a | 2 | oz/a | FALBD | A | 99 a | 0 c |
| | Express | 0.0094 | lb ai/a | 0.2 | oz/a | FALBD | A | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | |
| 18 | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 97 a | 1 c |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | |
| 19 | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 99 a | 0 c |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | |
| 20 | Untreated Check | | | | | | | 0 d | 30 b |
| 21 | Basis | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | 100 a | 2 c |
| | Express | 0.00586 | lb ai/a | 0.125 | oz/a | FALBD | A | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | |

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| Weed Code | | | | | | | TAROF | TAROF | |
|--------------------|----------------|---------|-----------|--------------|-------------------|----------|-------------|-------------|------|
| Crop Code | | | | | | | PLAQUA P | | |
| Part Rated | | | | | | | CONTRO | | |
| Rating Data Type | | | | | | | % | count | |
| Rating Unit | | | | | | | 12/Jul/2005 | 29/Sep/2005 | |
| Rating Date | | | | | | | | | |
| Crop Stage | | | | | | | | | |
| Crop Stage Scale | | | | | | | | | |
| Weed Stage | | | | | | | 4-12" | 8-16" | |
| Weed Density, Unit | | | | | | | 4.5 YD2 | 1 YD2 | |
| Assessed By | | | | | | | | | |
| Tri-Eval Interval | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Rate Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 7 | 8 |
| 22 | Matrix | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 100 a | 0 c |
| | Harmony GT | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | | |
| | Express | 0.0078 | lb ai/a | 0.167 | oz/a | FALBD | A | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | |
| 23 | Matrix | 0.0625 | lb ai/a | 4 | oz/a | FALBD | A | 99 a | 1 c |
| | Harmony GT | 0.0623 | lb ai/a | 1.33 | oz/a | FALBD | A | | |
| | Express | 0.0314 | lb ai/a | 0.67 | oz/a | FALBD | A | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | |
| 24 | Canopy XL | | | | | FALBD | A | 97 ab | 1 c |
| | Classic | 0.0203 | lb ai/a | 1.3 | oz/a | FALBD | A | | |
| | Authority | 0.103 | lb ai/a | 2.2 | oz/a | FALBD | A | | |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | |
| 25 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 87 bc | 10 c |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | |
| 26 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 94 ab | 9 c |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | |
| LSD (P=.05) | | | | | | | 9.7 | 17.5 | |
| Standard Deviation | | | | | | | 6.8 | 12.4 | |
| CV | | | | | | | 8.1 | 223.75 | |
| Grand Mean | | | | | | | 84.25 | 5.54 | |
| Bartlett's X2 | | | | | | | 77.963 | 206.817 | |
| P(Bartlett's X2) | | | | | | | 0.001* | 0.001* | |
| Replicate F | | | | | | | 4.737 | 3.994 | |
| Replicate Prob(F) | | | | | | | 0.0044 | 0.0108 | |
| Treatment F | | | | | | | 84.016 | 3.253 | |
| Treatment Prob(F) | | | | | | | 0.0001 | 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.