

Purdue University

Fall and/or Spring Combination Treatments for Glyphosate Resistant Horseweed Control

Trial ID: 04F-SEPAC-GRH
Location: Butlerville, 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: 47906
Investigator: Dr. William G. Johnson **Title:** Associate Professor
Affiliation: Purdue University
Postal Code: 47906

TRIAL LOCATION

City: Butlerville
State/Prov.: IN
Postal Code: 47223
Country: USA
Unit: feet
Directions: Field T2

COOPERATOR/LANDOWNER

Cooperator: Southeast Purdue Ag Center **Country:** USA
Address 1: 4425 E Co Rd 350 N **Phone No:** 812-458-6977
Address 2: PO Box 216 **Fax No:** 812-458-6979
City: Butlerville
State/Prov: IN
Postal Code: 47223

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

Objective: The objective of this study was to evaluate the efficacy of fall burndown and early spring applied treatments on various winter annual weed species including glyphosate-resistant horseweed.

CROP AND WEED DESCRIPTION

| Weed | Code | Common Name | Scientific Name |
|------|-------|----------------------|------------------------|
| 1. | RANAB | Ranunculus abortivus | Buttercup, smallflower |
| 2. | SENGL | Senecio glabellus | Groundsel, cressleaf |
| 3. | STEME | Stellaria media | Common chickweed |
| 4. | ERICA | Erigeron canadensis | Fleabane, Canadian |
| 5. | ERPVE | Erophila verna | Erophila verna |
| 6. | CERVU | Cerastium vulgatum | Cerastium vulgatum |
| 7. | POAAN | Poa annua | Path grass |
| 8. | VERAR | Veronica arvensis | Wall speedwell |
| 9. | LAMPU | Lamium purpureum | Deadnettle, red |
| 10. | ALLVI | Allium vineale | Allium vineale |
| 11. | TAROF | Taraxacum officinale | Common dandelion |

Crop 1: ZEAMX CORN, FIELD **Variety:** Harvest Residue (mowed)

Crop 2: GLXMA SOYBEAN **Variety:** P93M80
Planting Date: 10/May/2005 **Planting Method:** No-Till drilled
Rate: 204000 S/A **Depth:** 1 IN
Row Spacing: 7.5 IN
Soil Temperature: 63 F **Soil Moisture:** NORMAL

SITE AND DESIGN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 30 FT **Reps:** 4
Site Type: FIELD
Tillage Type: No-Till **Study Design:** RANDOMIZED COMPLETE BLOCK

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

MAINTENANCE

Field Prep./Maintenance: The corn stalks were mowed for the entire study area during week of 11/8/2004. The SEPAC crew applied a post blanket application of 1 qt Bucceneer Plus (0.75# a.e. glyphosate) to entire study area on 16/Jun/2005.

| No. | Date | Maintenance Treatment Name | Form Conc | Form Unit | Form Type | Rate | Rate Unit |
|-----|-------------|----------------------------|-----------|-----------|-----------|------|-----------|
| 1. | 24/May/2005 | Fusion | 2.56 | | L | 20 | FL OZ/A |

Overall Moisture Conditions: Wet early then very dry in the late spring.

Closest Weather Station: Located at SEPAC

Distance: 0.5 Unit: MI

APPLICATION DESCRIPTION

| | A | B | C | D |
|----------------------|-------------|-------------|-------------|-------------|
| Application Date: | 16/Nov/2004 | 30/Mar/2005 | 11/Apr/2005 | 22/Apr/2005 |
| Time of Day: | 1315-1400 | 1000-1015 | 900-920 | 1030-1115 |
| Application Method: | SPRAY | SPRAY | SPRAY | SPRAY |
| Application Timing: | FALBD | 45EPP | 30EPP | 15EPP |
| Applic. Placement: | BROFOL | BROFOL | BROFOL | BROFOL |
| Air Temp., Unit: | 56 F | 59 F | 77 F | 70 F |
| % Relative Humidity: | 65 | 65 | 60 | 65 |
| Wind Velocity, Unit: | 2.5 MPH | 8 MPH | 4.5 MPH | 5 MPH |
| Soil Temp., Unit: | 48 F | 48 F | 60 F | 60 F |
| Soil Moisture: | moist | EXCESSIVE | Dry | wet |
| % Cloud Cover: | 100 | 100 | 30 | 95 |

CROP STAGE AT EACH APPLICATION

| | A | B | C | D |
|---------------------|---------|---------|---------|---------|
| Crop 1 Code, Stage: | ZEAMX | ZEAMX | ZEAMX | ZEAMX |
| Stage Scale: | Residue | Residue | Residue | Residue |
| Height, Unit: | 70 % | 50 % | 50 % | 50 % |
| Crop 2 Code, Stage: | GLXMA | GLXMA | GLXMA | GLXMA |
| Stage Scale: | NA | NA | NA | NA |

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WEED STAGE AT EACH APPLICATION

| | A | B | C | D |
|----------------------------|--------------|---------------|---------------|-----------------|
| Weed 1 Code, Stage: | RANAB 6 Lf | RANAB 3-6 lf | RANAB | RANAB |
| Stage Scale: | 2-3" | 2-4" | | |
| Density, Unit: | 12 YD2 | 9 YD2 | | |
| Weed 2 Code, Stage: | SENGL 14 Lf | SENGL rosette | SENGL rosette | SENGL flowering |
| Stage Scale: | 3-6" | 3-4" | 4-6" | 3-15" |
| Density, Unit: | 15 YD2 | 10 YD2 | 10 YD2 | 10 YD2 |
| Weed 3 Code, Stage: | STEME 2-6 Lf | STEME 4-8 lf | STEME | STEME seed set |
| Stage Scale: | 0.5-1" | 2-3" | 4-6" run | 9" runner |
| Density, Unit: | 140 YD2 | 16 YD2 | 4 YD2 | 2 YD2 |
| Weed 4 Code, Stage: | ERICA 18 Lf | ERICA rosette | ERICA rosette | ERICA rosette |
| Stage Scale: | 3-5" ross | 2-3" ross | 2-3" ross | 2-4" ross |
| Density, Unit: | <1 YD2 | 8 YD2 | 1 YD2 | 4 YD2 |
| Weed 5 Code, Stage: | ERPVE | ERPVE | ERPVE | ERPVE flowering |
| Stage Scale: | | | 2" | 2-4" |
| Density, Unit: | | | 30 YD2 | 30 YD2 |
| Weed 6 Code, Stage: | CERVU 2-8 Lf | CERVU 4-10 lf | CERVU | CERVU |
| Stage Scale: | 0.5-1.5" | 3-4" runn | 4-6" runn | 5-7" runn |
| Density, Unit: | 75 YD2 | 10 YD2 | 10 YD2 | 10 YD2 |
| Weed 7 Code, Stage: | POAAN 3-4 Lf | POAAN | POAAN | POAAN |
| Stage Scale: | 1-2" | 1-3" | 2-4" | 2-4" |
| Density, Unit: | 30 YD2 | 30 YD2 | 30 YD2 | 30 YD2 |
| Weed 8 Code, Stage: | VERAR | VERAR | VERAR | VERAR Flowering |
| Stage Scale: | | | 2" | 2-4" |
| Density, Unit: | | | 8 YD2 | 25 YD2 |
| Weed 9 Code, Stage: | LAMPU 2-8 Lf | LAMPU 6-12 lf | LAMPU | LAMPU Flowering |
| Stage Scale: | 0.5-1.5" | 3-4" | 4" | 4-6" |
| Density, Unit: | 20 YD2 | 7 YD2 | 5 YD2 | 4 YD2 |
| Weed10 Code, Stage: | ALLVI | ALLVI 2-3 lf | ALLVI | ALLVI |
| Stage Scale: | 5-9" | 4-6" | 6-8" | 8-16" |
| Density, Unit: | 23 YD2 | 45 YD2 | 45 YD2 | 45 YD2 |
| Weed11 Code, Stage: | TAROF | TAROF | TAROF 4 lf | TAROF Flowering |
| Stage Scale: | | | 2" | 2-4" |
| Density, Unit: | | | 1 YD2 | 2 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 |

Trial Comments

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Trial ID: 04F-SEPAC-GRH
 Location: Butlerville, IN

Study Dir.: Dr. Bill Johnson
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| | | | | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA |
|---------|--------------------|--------|---------|--------------|-------------------|----------|-----------|--------|--|-------------|-------------|-------------|-------------|-------------|
| | | | | | | | | | | PLAQUA P % |
| | | | | | | | | | | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 |
| | | | | | | | | | | 4-6" | 3-4" ros | 2-3" run | 2-4" | 2-3" ros |
| | | | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 8 YD2 |
| | | | | | | | | | | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt |
|  |  |  |  |  |  |  |  |  |  | 134 DA-A | 134 DA-A | 134 DA-A | 134 DA-A | 134 DA-A |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | Plot | | 1 | 2 | 3 | 4 | 5 |
| 1 | Untreated Check | | | | | | | 101 | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 313 | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 509 | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 818 | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | Mean = | | 0 | 0 | 0 | 0 | 0 |
| 2 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 102 | | 95 | 100 | 100 | 100 | 100 |
| | Canopy EX | | | | oz/a | FALBD | A | 314 | | 90 | 100 | 100 | 100 | 100 |
| | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 502 | | 90 | 100 | 100 | 100 | 100 |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | 811 | | 75 | 100 | 100 | 100 | 100 |
| | 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 = | | 88 | 100 | 100 | 100 | 100 |
| 3 | Canopy EX | | | | oz/a | FALBD | A | 103 | | 95 | 100 | 100 | 100 | 100 |
| | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 303 | | 100 | 100 | 100 | 100 | 100 |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | 514 | | 70 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 804 | | 90 | 100 | 100 | 100 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | | |
| | | | | | | | | Mean = | | 89 | 100 | 100 | 100 | 100 |
| 4 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 104 | | 100 | 100 | 100 | 100 | 100 |
| | V-10149 | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 312 | | 95 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | FALBD | A | 614 | | 70 | 100 | 100 | 100 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 704 | | 95 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | | |
| | | | | | | | | Mean = | | 90 | 100 | 100 | 100 | 100 |
| 5 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 105 | | 100 | 100 | 100 | 100 | 100 |
| | V-10142 | 0.2 | lb ai/a | 7.76 | oz/a | FALBD | A | 317 | | 65 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 609 | | 95 | 100 | 100 | 100 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | 807 | | 75 | 100 | 100 | 100 | 100 |
| | | | | | | | | Mean = | | 84 | 100 | 100 | 100 | 100 |
| 6 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 106 | | 100 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | FALBD | A | 412 | | 90 | 100 | 100 | 100 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 516 | | 70 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 812 | | 80 | 100 | 100 | 100 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | | |
| | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | | | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | | |
| | | | | | | | | Mean = | | 85 | 100 | 100 | 100 | 100 |

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| | | | | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA |
|-----|--------------------|--------|---------|---------|------------|--------|------|--------|-----|-------------|-------------|-------------|-------------|-------------|
| | | | | | | | | | | PLAQUA P |
| | | | | | | | | | | % | % | % | % | % |
| | | | | | | | | | | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 |
| | | | | | | | | | | 4-6" | 3-4" ros | 2-3" run | 2-4" | 2-3" ros |
| | | | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 8 YD2 |
| | | | | | | | | | | VMD+EOtt | VMD+EOtt | VMD+EOtt | VMD+EOtt | VMD+EOtt |
| | | | | | | | | | | 134 DA-A |
| Trt | Treatment | Rate | Unit | Product | Product | Grow | Appl | Plot | | | | | | |
| No. | Name | | | Rate | Rate | Stq | Code | | 1 | 2 | 3 | 4 | 5 | |
| 7 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | FALBD | A | 107 | 100 | 100 | 100 | 100 | 100 | |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | FALBD | A | 309 | 90 | 100 | 100 | 100 | 100 | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | FALBD | A | 616 | 60 | 100 | 100 | 100 | 100 | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 712 | 85 | 100 | 100 | 100 | 100 | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | | |
| | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | | | | | | | |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | | | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | | |
| | | | | | | | | Mean = | 84 | 100 | 100 | 100 | 100 | |
| 8 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 108 | | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 319 | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 508 | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | 701 | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | | |
| | | | | | | | | Mean = | . | . | . | . | . | |
| 9 | Valor | 0.096 | lb ai/a | 3 | oz/a | 15 EPP | D | 109 | | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 419 | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 510 | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | 803 | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | | |
| | | | | | | | | Mean = | . | . | . | . | . | |
| 10 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 110 | | | | | | |
| | FirstRate | 0.021 | lb ai/a | 0.4 | oz/a | 15 EPP | D | 417 | | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 507 | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 702 | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | | |
| | | | | | | | | Mean = | . | . | . | . | . | |
| 11 | Valor | 0.08 | lb ai/a | 2.5 | oz/a | 15 EPP | D | 111 | | | | | | |
| | FirstRate | 0.0263 | lb ai/a | 0.5 | oz/a | 15 EPP | D | 308 | | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 501 | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 710 | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | | |
| | | | | | | | | Mean = | . | . | . | . | . | |
| 12 | Valor | 0.096 | lb ai/a | 3 | oz/a | 15 EPP | D | 112 | | | | | | |
| | FirstRate | 0.0315 | lb ai/a | 0.6 | oz/a | 15 EPP | D | 418 | | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 511 | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 808 | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | | |
| | | | | | | | | Mean = | . | . | . | . | . | |

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| | | | | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA |
|---------|--------------------|-------|---------|--------------|-------------------|----------|-----------|------|--|-------------|-------------|-------------|-------------|-------------|
| | | | | | | | | | | PLAQUA P |
| | | | | | | | | | | % | % | % | % | % |
| | | | | | | | | | | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 |
| | | | | | | | | | | 4-6" | 3-4" ros | 2-3" run | 2-4" | 2-3" ros |
| | | | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 8 YD2 |
| | | | | | | | | | | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt |
|  |  |  |  |  |  |  |  |  |  | 134 DA-A | 134 DA-A | 134 DA-A | 134 DA-A | 134 DA-A |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | Plot | | 1 | 2 | 3 | 4 | 5 |
| 13 | Valor | 0.016 | lb ai/a | 0.5 | oz/a | FALBD | A | 113 | | 75 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 311 | | 50 | 100 | 100 | 100 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | 610 | | 50 | 100 | 100 | 100 | 100 |
| | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 815 | | 50 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | | |
| | Mean = | | | | | | | | | 56 | 100 | 100 | 100 | 100 |
| 14 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 215 | | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 304 | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 608 | | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | 716 | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | | |
| | Mean = | | | | | | | | | . | . | . | . | . |
| 15 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 115 | | 85 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 302 | | 100 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | 612 | | 90 | 100 | 100 | 100 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 706 | | 100 | 100 | 100 | 100 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | | |
| | Mean = | | | | | | | | | 94 | 100 | 100 | 100 | 100 |
| 16 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 116 | | 98 | 100 | 100 | 100 | 100 |
| | Weedmaster | 0.484 | lb ae/a | 16 | oz/a | FALBD | A | 306 | | 70 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | 512 | | 90 | 100 | 100 | 100 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 801 | | 55 | 100 | 100 | 100 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | | |
| | Mean = | | | | | | | | | 78 | 100 | 100 | 100 | 100 |
| 17 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 45 EPP | B | 117 | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 45 EPP | B | 408 | | | | | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 45 EPP | B | 518 | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 45 EPP | B | 817 | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 45 EPP | B | | | | | | | |
| | Mean = | | | | | | | | | . | . | . | . | . |
| 18 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 30 EPP | C | 118 | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 30 EPP | C | 415 | | | | | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 30 EPP | C | 601 | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 30 EPP | C | 708 | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 30 EPP | C | | | | | | | |
| | Mean = | | | | | | | | | . | . | . | . | . |
| 19 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 15 EPP | D | 201 | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | 409 | | | | | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 15 EPP | D | 517 | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 805 | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | | |
| | Mean = | | | | | | | | | . | . | . | . | . |

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|-----|--------------------------|---------|------------|---------|------------|-------|------|-------------|-------------|-------------|-------------|-------------|-----|
| | | | | | | | | PLAQUA P | |
| | | | | | | | | % | % | % | % | % | |
| | | | | | | | | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | |
| | | | | | | | | 4-6" | 3-4" ros | 2-3" run | 2-4" | 2-3" ros | |
| | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 8 YD2 | |
| | | | | | | | | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt | |
| | | | | | | | | 134 DA-A | |
| Trt | Treatment | Rate | Unit | Product | Product | Grow | Appl | | | | | | |
| No. | Name | | | Rate | Rate Unit | Stq | Code | Plot | 1 | 2 | 3 | 4 | 5 |
| 20 | FirstRate | 0.025 | lb/a | 0.4 | oz/a | FALBD | A | 202 | 90 | 100 | 100 | 100 | 100 |
| | GF-1279 (IPA-salt glyph) | 0.375 | lb ae/a | 12 | oz/a | FALBD | A | 307 | 85 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 16 | oz/a | FALBD | A | 618 | 65 | 100 | 100 | 100 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 816 | 85 | 100 | 100 | 100 | 100 |
| | NIS | 1 | pt/100 gal | 1 | pt/100 gal | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 81 | 100 | 100 | 100 | 100 |
| 21 | Python | 0.0625 | lb/a | 1 | oz/a | FALBD | A | 203 | 80 | 100 | 100 | 100 | 100 |
| | GF-1279 (IPA-salt glyph) | 0.375 | lb ae/a | 12 | oz/a | FALBD | A | 301 | 100 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 16 | oz/a | FALBD | A | 513 | 60 | 100 | 100 | 100 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 814 | 60 | 100 | 100 | 100 | 100 |
| | | | | | | | | Mean = | 75 | 100 | 100 | 100 | 100 |
| 22 | Classic | 0.0313 | lb ai/a | 2 | oz/a | FALBD | A | 204 | 95 | 100 | 100 | 100 | 100 |
| | Express | 0.0094 | lb ai/a | 0.2 | oz/a | FALBD | A | 315 | 90 | 100 | 100 | 95 | 90 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 603 | 98 | 100 | 100 | 100 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 713 | 95 | 100 | 100 | 100 | 100 |
| | | | | | | | | Mean = | 95 | 100 | 100 | 99 | 98 |
| 23 | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 205 | 100 | 100 | 100 | 100 | 100 |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | 318 | 93 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 506 | 80 | 100 | 100 | 100 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 810 | 88 | 100 | 100 | 100 | 100 |
| | | | | | | | | Mean = | 90 | 100 | 100 | 100 | 100 |
| 24 | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 206 | 93 | 100 | 100 | 100 | 100 |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | 407 | 100 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 602 | 100 | 100 | 100 | 100 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 813 | 65 | 100 | 100 | 100 | 100 |
| | | | | | | | | Mean = | 90 | 100 | 100 | 100 | 100 |
| 25 | Basis | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | 207 | 93 | 100 | 100 | 100 | 100 |
| | Express | 0.00586 | lb ai/a | 0.125 | oz/a | FALBD | A | 410 | 90 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 504 | 85 | 100 | 100 | 100 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 717 | 65 | 100 | 100 | 100 | 100 |
| | | | | | | | | Mean = | 83 | 100 | 100 | 100 | 100 |
| 26 | Matrix | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 208 | 100 | 100 | 100 | 100 | 100 |
| | Harmony GT | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | 305 | 80 | 100 | 100 | 100 | 100 |
| | Express | 0.0078 | lb ai/a | 0.167 | oz/a | FALBD | A | 503 | 90 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 714 | 80 | 100 | 100 | 100 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 88 | 100 | 100 | 100 | 100 |
| 27 | Matrix | 0.0625 | lb ai/a | 4 | oz/a | FALBD | A | 209 | 100 | 100 | 100 | 100 | 100 |
| | Harmony GT | 0.0623 | lb ai/a | 1.33 | oz/a | FALBD | A | 413 | 95 | 100 | 100 | 100 | 100 |
| | Express | 0.0314 | lb ai/a | 0.67 | oz/a | FALBD | A | 604 | 100 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 715 | 95 | 100 | 100 | 100 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 98 | 100 | 100 | 100 | 100 |

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|--------------------|---------------------------|---------|---------|--------------|-------------------|----------|-----------|-------------|-------------|-------------|-------------|-------------|-----|
| Crop Code | | | | | | | | PLAQUA P | |
| Part Rated | | | | | | | | % | % | % | % | % | |
| Rating Unit | | | | | | | | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | |
| Rating Date | | | | | | | | | | | | | |
| Crop Stage | | | | | | | | | | | | | |
| Crop Stage Scale | | | | | | | | | | | | | |
| Weed Stage | | | | | | | | 4-6" | 3-4" ros | 2-3" run | 2-4" | 2-3" ros | |
| Weed Density, Unit | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 8 YD2 | |
| Assessed By | | | | | | | | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt | |
| Trt-Eval Interval | | | | | | | | 134 DA-A | |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | Plot | 1 | 2 | 3 | 4 | 5 |
| 28 | Canopy XL | | | | | FALBD | A | 210 | 100 | 100 | 100 | 100 | 100 |
| | Classic | 0.0203 | lb ai/a | 1.3 | oz/a | FALBD | A | 416 | 90 | 100 | 100 | 100 | 100 |
| | Authority | 0.103 | lb ai/a | 2.2 | oz/a | FALBD | A | 505 | 90 | 100 | 100 | 100 | 100 |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | 802 | 75 | 100 | 100 | 100 | 100 |
| | 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 = | 89 | 100 | 100 | 100 | 100 |
| 29 | Untreated Check | | | | | | | 219 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 402 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 615 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 705 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | Mean = | 0 | 0 | 0 | 0 | 0 |
| 30 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 212 | 60 | 100 | 100 | 80 | 100 |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | 316 | 50 | 95 | 100 | 60 | 95 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 515 | 0 | 75 | 100 | 25 | 100 |
| | | | | | | | | 809 | 60 | 85 | 100 | 20 | 75 |
| | | | | | | | | Mean = | 43 | 89 | 100 | 46 | 93 |
| 31 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 213 | 75 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 414 | 65 | 100 | 100 | 100 | 100 |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | 611 | 70 | 100 | 100 | 100 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 703 | 90 | 100 | 100 | 100 | 100 |
| | | | | | | | | Mean = | 75 | 100 | 100 | 100 | 100 |
| 32 | Fall Residual Reference | | | | | | | 214 | 90 | 100 | 100 | 100 | 100 |
| | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 401 | 100 | 100 | 100 | 100 | 100 |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | 613 | 93 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 711 | 90 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 93 | 100 | 100 | 100 | 100 |
| 33 | Spring Residual Reference | | | | | | | 211 | | | | | |
| | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | 30 EPP | C | 403 | | | | | |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | 30 EPP | C | 605 | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 30 EPP | C | 718 | | | | | |
| | 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 | | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | 30 EPP | C | | | | | | |
| | | | | | | | | Mean = | . | . | . | . | . |
| 34 | Spring glyph. reference | | | | | | | 114 | | | | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 30 EPP | C | 406 | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 30 EPP | C | 519 | | | | | |
| | | | | | | | | 819 | | | | | |
| | | | | | | | | Mean = | . | . | . | . | . |
| 35 | Spring glyph/D reference | | | | | | | 119 | | | | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 30 EPP | C | 310 | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 30 EPP | C | 606 | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 30 EPP | C | 719 | | | | | |
| | | | | | | | | Mean = | . | . | . | . | . |

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| | | | | | | | | | PLAQUA P |
| | | | | | | | | | % | % | % | % | % |
| | | | | | | | | | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 |
| | | | | | | | | | 4-6" | 3-4" ros | 2-3" run | 2-4" | 2-3" ros |
| | | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 8 YD2 |
| | | | | | | | | | VMD+EOtt | VMD+EOtt | VMD+EOtt | VMD+EOtt | VMD+EOtt |
|  |  |  |  |  |  |  |  |  | 134 DA-A | 134 DA-A | 134 DA-A | 134 DA-A | 134 DA-A |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | Plot | 1 | 2 | 3 | 4 | 5 |
| 36 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | 216 | | | | | |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | 404 | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 617 | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 707 | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | | | | | | | | Mean = | . | . | . | . | . |
| 37 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | 217 | | | | | |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | 411 | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 619 | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 709 | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | | | | | | | | Mean = | . | . | . | . | . |
| 38 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 218 | | | | | |
| | FirstRate | 0.021 | lb ai/a | 0.4 | oz/a | 15 EPP | D | 405 | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 607 | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 806 | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | | | | | | | | Mean = | . | . | . | . | . |

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| Crop Code | | | | | | | | | | | | | | |
| Part Rated | | | | | | | | | | | | | | |
| Rating Unit | | | | | | | | | | PLAQUA P |
| Rating Date | | | | | | | | | | % | % | % | % | % |
| Crop Stage | | | | | | | | | | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 |
| Crop Stage Scale | | | | | | | | | | | | | | |
| Weed Stage | | | | | | | | | | 8-12" | bolting | 6-10"run | 4-8" | 3-4" ros |
| Weed Density, Unit | | | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 10 YD2 |
| Assessed By | | | | | | | | | | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD |
| Trt-Eval Interval | | | | | | | | | | 168 DA-A | 168 DA-A | 168 DA-A | 168 DA-A | 168 DA-A |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Unit | Grow Stg | Appl Code | Plot | | 6 | 7 | 8 | 9 | 10 |
| 1 | Untreated Check | | | | | | | 101 | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 313 | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 509 | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 818 | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | Mean = | | 0 | 0 | 0 | 0 | 0 |
| 2 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 102 | | 75 | 100 | 100 | 100 | 100 |
| | Canopy EX | | | | oz/a | FALBD | A | 314 | | 85 | 100 | 100 | 100 | 100 |
| | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 502 | | 90 | 100 | 100 | 100 | 100 |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | 811 | | 65 | 100 | 100 | 100 | 100 |
| | 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 = | | 79 | 100 | 100 | 100 | 100 |
| 3 | Canopy EX | | | | oz/a | FALBD | A | 103 | | 95 | 100 | 100 | 100 | 100 |
| | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 303 | | 97 | 100 | 100 | 100 | 100 |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | 514 | | 75 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 804 | | 90 | 100 | 100 | 100 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | | |
| | | | | | | | | Mean = | | 89 | 100 | 100 | 100 | 100 |
| 4 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 104 | | 98 | 100 | 100 | 100 | 100 |
| | V-10149 | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 312 | | 97 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | FALBD | A | 614 | | 75 | 100 | 100 | 100 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 704 | | 95 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | | |
| | | | | | | | | Mean = | | 91 | 100 | 100 | 100 | 100 |
| 5 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 105 | | 98 | 100 | 100 | 100 | 100 |
| | V-10142 | 0.2 | lb ai/a | 7.76 | oz/a | FALBD | A | 317 | | 40 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 609 | | 95 | 100 | 100 | 100 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | 807 | | 85 | 100 | 100 | 100 | 100 |
| | | | | | | | | Mean = | | 80 | 100 | 100 | 100 | 100 |
| 6 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 106 | | 99 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | FALBD | A | 412 | | 93 | 100 | 100 | 100 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 516 | | 90 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 812 | | 60 | 100 | 100 | 100 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | | |
| | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | | | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | | |
| | | | | | | | | Mean = | | 86 | 100 | 100 | 100 | 100 |

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| | | | | | | | | | PLAQUA P |
| | | | | | | | | | % | % | % | % | % |
| | | | | | | | | | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 |
| | | | | | | | | | 8-12" | bolting | 6-10"run | 4-8" | 3-4" ros |
| | | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 10 YD2 |
| | | | | | | | | | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD |
|  |  |  |  |  |  |  |  |  | 168 DA-A | 168 DA-A | 168 DA-A | 168 DA-A | 168 DA-A |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | Plot | 6 | 7 | 8 | 9 | 10 |
| 7 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | FALBD | A | 107 | 95 | 100 | 100 | 100 | 100 |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | FALBD | A | 309 | 97 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | FALBD | A | 616 | 85 | 100 | 100 | 100 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 712 | 85 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | | | | | | |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | Mean = | | | | | | | | 91 | 100 | 100 | 100 | 100 |
| 8 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 108 | 97 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 319 | 65 | 85 | 90 | 75 | 50 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 508 | 90 | 80 | 70 | 70 | 40 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | 701 | 75 | 90 | 60 | 70 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | Mean = | | | | | | | | 82 | 89 | 80 | 79 | 73 |
| 9 | Valor | 0.096 | lb ai/a | 3 | oz/a | 15 EPP | D | 109 | 80 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 419 | 50 | 78 | 50 | 50 | 40 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 510 | 60 | 90 | 80 | 100 | 30 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | 803 | 70 | 85 | 70 | 60 | 70 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | Mean = | | | | | | | | 65 | 88 | 75 | 78 | 60 |
| 10 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 110 | 60 | 100 | 98 | 100 | 100 |
| | FirstRate | 0.021 | lb ai/a | 0.4 | oz/a | 15 EPP | D | 417 | 25 | 75 | 60 | 70 | 40 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 507 | 90 | 90 | 75 | 80 | 50 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 702 | 90 | 90 | 70 | 80 | 40 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | Mean = | | | | | | | | 66 | 89 | 76 | 83 | 58 |
| 11 | Valor | 0.08 | lb ai/a | 2.5 | oz/a | 15 EPP | D | 111 | 40 | 99 | 100 | 100 | 100 |
| | FirstRate | 0.0263 | lb ai/a | 0.5 | oz/a | 15 EPP | D | 308 | 75 | 100 | 90 | 100 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 501 | 85 | 83 | 80 | 80 | 30 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 710 | 65 | 90 | 40 | 60 | 90 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | Mean = | | | | | | | | 66 | 93 | 78 | 85 | 80 |
| 12 | Valor | 0.096 | lb ai/a | 3 | oz/a | 15 EPP | D | 112 | 50 | 100 | 100 | 100 | 100 |
| | FirstRate | 0.0315 | lb ai/a | 0.6 | oz/a | 15 EPP | D | 418 | 60 | 85 | 80 | 80 | 40 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 511 | 65 | 90 | 40 | 100 | 25 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 808 | 50 | 85 | 60 | 70 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | Mean = | | | | | | | | 56 | 90 | 70 | 88 | 66 |

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| Weed Code | | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA | |
|--------------------|--------------------|-------|---------|--------------|-------------------|----------|-----------|------------|------------|------------|------------|------------|-----|
| Crop Code | | | | | | | | | | | | | |
| Part Rated | | | | | | | | PLAQUA P | |
| Rating Unit | | | | | | | | % | % | % | % | % | |
| Rating Date | | | | | | | | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 | |
| Crop Stage | | | | | | | | | | | | | |
| Crop Stage Scale | | | | | | | | | | | | | |
| Weed Stage | | | | | | | | 8-12" | bolting | 6-10"run | 4-8" | 3-4" ros | |
| Weed Density, Unit | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 10 YD2 | |
| Assessed By | | | | | | | | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD | |
| Trt-Eval Interval | | | | | | | | 168 DA-A | |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stq | Appl Code | Plot | 6 | 7 | 8 | 9 | 10 |
| 13 | Valor | 0.016 | lb ai/a | 0.5 | oz/a | FALBD | A | 113 | 70 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 311 | 70 | 100 | 100 | 100 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | 610 | 80 | 100 | 50 | 100 | 100 |
| | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 815 | 60 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | | | | | | | | Mean = | 70 | 100 | 88 | 100 | 100 |
| 14 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 215 | 70 | 85 | 90 | 95 | 90 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 304 | 50 | 98 | 100 | 100 | 50 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 608 | 90 | 85 | 75 | 80 | 50 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | 716 | 50 | 90 | 60 | 75 | 40 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | | | | | | | | Mean = | 65 | 90 | 81 | 88 | 58 |
| 15 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 115 | 85 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 302 | 98 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | 612 | 90 | 100 | 100 | 100 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 706 | 98 | 100 | 100 | 100 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 93 | 100 | 100 | 100 | 100 |
| 16 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 116 | 95 | 100 | 100 | 100 | 100 |
| | Weedmaster | 0.484 | lb ae/a | 16 | oz/a | FALBD | A | 306 | 78 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | 512 | 90 | 100 | 100 | 100 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 801 | 40 | 100 | 100 | 100 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 76 | 100 | 100 | 100 | 100 |
| 17 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 45 EPP | B | 117 | 85 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 45 EPP | B | 408 | 90 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 45 EPP | B | 518 | 85 | 100 | 100 | 30 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 45 EPP | B | 817 | 70 | 100 | 100 | 100 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 45 EPP | B | | | | | | |
| | | | | | | | | Mean = | 83 | 100 | 100 | 83 | 100 |
| 18 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 30 EPP | C | 118 | 65 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 30 EPP | C | 415 | 60 | 95 | 95 | 70 | 70 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 30 EPP | C | 601 | 85 | 100 | 100 | 50 | 70 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 30 EPP | C | 708 | 85 | 95 | 95 | 80 | 60 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 30 EPP | C | | | | | | |
| | | | | | | | | Mean = | 74 | 98 | 98 | 75 | 75 |
| 19 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 15 EPP | D | 201 | 70 | 40 | 90 | 90 | 30 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | 409 | 70 | 85 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 15 EPP | D | 517 | 60 | 55 | 45 | 60 | 40 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 805 | 50 | 40 | 30 | 60 | 30 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | | | | | | | | Mean = | 63 | 55 | 66 | 78 | 50 |

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| | | | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA |
|-----|--------------------------|---------|------------|---------|------------|-------|------|--------|------------|------------|------------|------------|------------|
| | | | | | | | | | PLAQUA P |
| | | | | | | | | | % | % | % | % | % |
| | | | | | | | | | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 |
| | | | | | | | | | 8-12" | bolting | 6-10"run | 4-8" | 3-4" ros |
| | | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 10 YD2 |
| | | | | | | | | | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD |
|  |  |  |  |  |  |  |  |  | 168 DA-A | 168 DA-A | 168 DA-A | 168 DA-A | 168 DA-A |
| Trt | Treatment | Rate | Unit | Product | Product | Grow | Appl | Plot | 6 | 7 | 8 | 9 | 10 |
| No. | Name | | | Rate | Rate Unit | Stq | Code | | | | | | |
| 20 | FirstRate | 0.025 | lb/a | 0.4 | oz/a | FALBD | A | 202 | 75 | 100 | 100 | 100 | 100 |
| | GF-1279 (IPA-salt glyph) | 0.375 | lb ae/a | 12 | oz/a | FALBD | A | 307 | 85 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 16 | oz/a | FALBD | A | 618 | 70 | 100 | 100 | 100 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 816 | 70 | 100 | 100 | 100 | 100 |
| | NIS | 1 | pt/100 gal | 1 | pt/100 gal | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 75 | 100 | 100 | 100 | 100 |
| 21 | Python | 0.0625 | lb/a | 1 | oz/a | FALBD | A | 203 | 70 | 100 | 100 | 100 | 100 |
| | GF-1279 (IPA-salt glyph) | 0.375 | lb ae/a | 12 | oz/a | FALBD | A | 301 | 95 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 16 | oz/a | FALBD | A | 513 | 70 | 100 | 100 | 100 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 814 | 50 | 100 | 100 | 100 | 100 |
| | | | | | | | | Mean = | 71 | 100 | 100 | 100 | 100 |
| 22 | Classic | 0.0313 | lb ai/a | 2 | oz/a | FALBD | A | 204 | 95 | 100 | 100 | 100 | 100 |
| | Express | 0.0094 | lb ai/a | 0.2 | oz/a | FALBD | A | 315 | 80 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 603 | 100 | 100 | 100 | 100 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 713 | 85 | 100 | 100 | 100 | 100 |
| | | | | | | | | Mean = | 90 | 100 | 100 | 100 | 100 |
| 23 | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 205 | 97 | 100 | 100 | 100 | 100 |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | 318 | 85 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 506 | 75 | 100 | 100 | 100 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 810 | 75 | 100 | 100 | 100 | 100 |
| | | | | | | | | Mean = | 83 | 100 | 100 | 100 | 100 |
| 24 | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 206 | 95 | 100 | 100 | 100 | 100 |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | 407 | 97 | 97 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 602 | 90 | 100 | 100 | 100 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 813 | 65 | 100 | 100 | 100 | 100 |
| | | | | | | | | Mean = | 87 | 99 | 100 | 100 | 100 |
| 25 | Basis | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | 207 | 95 | 100 | 90 | 100 | 100 |
| | Express | 0.00586 | lb ai/a | 0.125 | oz/a | FALBD | A | 410 | 95 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 504 | 85 | 90 | 100 | 100 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 717 | 75 | 100 | 100 | 100 | 100 |
| | | | | | | | | Mean = | 88 | 98 | 98 | 100 | 100 |
| 26 | Matrix | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 208 | 97 | 100 | 100 | 100 | 10 |
| | Harmony GT | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | 305 | 85 | 100 | 100 | 100 | 100 |
| | Express | 0.0078 | lb ai/a | 0.167 | oz/a | FALBD | A | 503 | 90 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 714 | 65 | 100 | 100 | 100 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 84 | 100 | 100 | 100 | 78 |
| 27 | Matrix | 0.0625 | lb ai/a | 4 | oz/a | FALBD | A | 209 | 98 | 100 | 100 | 100 | 100 |
| | Harmony GT | 0.0623 | lb ai/a | 1.33 | oz/a | FALBD | A | 413 | 100 | 98 | 100 | 100 | 100 |
| | Express | 0.0314 | lb ai/a | 0.67 | oz/a | FALBD | A | 604 | 100 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 715 | 90 | 100 | 100 | 100 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 97 | 100 | 100 | 100 | 100 |

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| Weed Code | | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA | |
|--------------------|---------------------------|---------|---------|--------------|-------------------|----------|-----------|------------|------------|------------|------------|------------|-----|
| Crop Code | | | | | | | | PLAQUA P | |
| Part Rated | | | | | | | | % | % | % | % | % | |
| Rating Unit | | | | | | | | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 | |
| Rating Date | | | | | | | | | | | | | |
| Crop Stage | | | | | | | | | | | | | |
| Crop Stage Scale | | | | | | | | 8-12" | bolting | 6-10"run | 4-8" | 3-4" ros | |
| Weed Stage | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 10 YD2 | |
| Weed Density, Unit | | | | | | | | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD | |
| Assessed By | | | | | | | | 168 DA-A | |
| Trt-Eval Interval | | | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stq | Appl Code | Plot | 6 | 7 | 8 | 9 | 10 |
| 28 | Canopy XL | | | | | FALBD | A | 210 | 97 | 100 | 100 | 100 | 100 |
| | Classic | 0.0203 | lb ai/a | 1.3 | oz/a | FALBD | A | 416 | 75 | 100 | 100 | 100 | 100 |
| | Authority | 0.103 | lb ai/a | 2.2 | oz/a | FALBD | A | 505 | 90 | 100 | 100 | 100 | 100 |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | 802 | 75 | 100 | 100 | 100 | 100 |
| | 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 = | 84 | 100 | 100 | 100 | 100 |
| 29 | Untreated Check | | | | | | | 219 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 402 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 615 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 705 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | Mean = | 0 | 0 | 0 | 0 | 0 |
| 30 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 212 | 70 | 100 | 100 | 80 | 100 |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | 316 | 20 | 90 | 100 | 50 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 515 | 35 | 70 | 100 | 0 | 10 |
| | | | | | | | | 809 | 50 | 90 | 100 | 30 | 30 |
| | | | | | | | | Mean = | 44 | 88 | 100 | 40 | 60 |
| 31 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 213 | 80 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 414 | 85 | 100 | 100 | 100 | 100 |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | 611 | 80 | 100 | 100 | 100 | 60 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 703 | 85 | 100 | 100 | 100 | 100 |
| | | | | | | | | Mean = | 83 | 100 | 100 | 100 | 90 |
| 32 | Fall Residual Reference | | | | | | | 214 | 95 | 100 | 100 | 100 | 100 |
| | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 401 | 100 | 100 | 100 | 100 | 100 |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | 613 | 90 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 711 | 85 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 93 | 100 | 100 | 100 | 100 |
| 33 | Spring Residual Reference | | | | | | | 211 | 75 | 100 | 100 | 100 | 100 |
| | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | 30 EPP | C | 403 | 95 | 100 | 100 | 100 | 100 |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | 30 EPP | C | 605 | 97 | 100 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 30 EPP | C | 718 | 50 | 100 | 100 | 100 | 100 |
| | 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 | | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | 30 EPP | C | | | | | | |
| | | | | | | | | Mean = | 79 | 100 | 100 | 100 | 100 |
| 34 | Spring glyph. reference | | | | | | | 114 | 60 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 30 EPP | C | 406 | 85 | 100 | 100 | 80 | 50 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 30 EPP | C | 519 | 50 | 95 | 100 | 30 | 25 |
| | | | | | | | | 819 | 70 | 100 | 100 | 40 | 25 |
| | | | | | | | | Mean = | 66 | 99 | 100 | 63 | 50 |
| 35 | Spring glyph/D reference | | | | | | | 119 | 55 | 75 | 60 | 60 | 100 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 30 EPP | C | 310 | 85 | 100 | 100 | 100 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 30 EPP | C | 606 | 95 | 98 | 100 | 100 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 30 EPP | C | 719 | 40 | 100 | 100 | 100 | 100 |
| | | | | | | | | Mean = | 69 | 93 | 90 | 90 | 100 |

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| | | | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA |
|---------|--------------------|--------|---------|--------------|-------------------|----------|-----------|--------|------------|------------|------------|------------|------------|
| | | | | | | | | | PLAQUA P |
| | | | | | | | | | % | % | % | % | % |
| | | | | | | | | | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 |
| | | | | | | | | | 8-12" | bolting | 6-10"run | 4-8" | 3-4" ros |
| | | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 10 YD2 |
| | | | | | | | | | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD |
|  |  |  |  |  |  |  |  |  | 168 DA-A | 168 DA-A | 168 DA-A | 168 DA-A | 168 DA-A |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | Plot | 6 | 7 | 8 | 9 | 10 |
| 36 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | 216 | 35 | 90 | 80 | 90 | 95 |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | 404 | 93 | 90 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 617 | 55 | 85 | 60 | 75 | 40 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 707 | 85 | 95 | 80 | 70 | 50 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | | | | | | | | Mean = | 67 | 90 | 80 | 84 | 71 |
| 37 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | 217 | 60 | 60 | 60 | 80 | 50 |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | 411 | 75 | 95 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 619 | 60 | 80 | 70 | 50 | 65 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 709 | 75 | 90 | 40 | 70 | 75 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | | | | | | | | Mean = | 68 | 81 | 68 | 75 | 73 |
| 38 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 218 | 60 | 90 | 100 | 80 | 95 |
| | FirstRate | 0.021 | lb ai/a | 0.4 | oz/a | 15 EPP | D | 405 | 90 | 100 | 100 | 100 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 607 | 80 | 90 | 80 | 90 | 40 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 806 | 70 | 80 | 75 | 80 | 70 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | | | | | | | | Mean = | 75 | 90 | 89 | 88 | 76 |

Purdue University

| Weed Code | | | | | | | | | | GLXMA | ERICA | ERICA | GLXMA | ERICA |
|--------------------|--------------------|--------|---------|--------------|--------------|----------|-----------|--------|----|-------------|-------------|------------|-------------|-------------|
| Crop Code | | | | | | | | | | PLAQUA C | PLAQUA P | PLAQUA P | PLAQUA C | PLAQUA P |
| Part Rated | | | | | | | | | | % | % | % | % | % |
| Rating Unit | | | | | | | | | | 31/May/2005 | 31/May/2005 | 7/Jul/2005 | 28/Jul/2005 | 28/Jul/2005 |
| Rating Date | | | | | | | | | | VC,unifo | | R1 | | |
| Crop Stage | | | | | | | | | | DESC | 2-8" | 12" | 30-36" | 4-42" |
| Crop Stage Scale | | | | | | | | | | | 13 YD2 | 8 YD2 | | 8 YD2 |
| Weed Stage | | | | | | | | | | WGJ+RD | WGJ+RD | EC+VAM | VMD | VMD |
| Weed Density, Unit | | | | | | | | | | 168 DA-A | 168 DA-A | | | |
| Assessed By | | | | | | | | | | | | | | |
| Trt-Eval Interval | | | | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Unit | Grow Stg | Appl Code | Plot | | 11 | 12 | 13 | 14 | 15 |
| 1 | Untreated Check | | | | | | | 101 | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 313 | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 509 | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 818 | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | Mean = | | 0 | 0 | 0 | 0 | 0 |
| 2 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 102 | | 0 | 100 | 100 | 0 | 100 |
| | Canopy EX | | | | oz/a | FALBD | A | 314 | 10 | 100 | 100 | 5 | 100 | |
| | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 502 | 0 | 100 | 100 | 5 | 100 | |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | 811 | 0 | 100 | 100 | 0 | 100 | |
| | 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 = | | 3 | 100 | 100 | 3 | 100 |
| 3 | Canopy EX | | | | oz/a | FALBD | A | 103 | | 0 | 100 | 100 | 20 | 100 |
| | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 303 | 10 | 100 | 96 | 15 | 100 | |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | 514 | 0 | 100 | 100 | 0 | 100 | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 804 | 0 | 100 | 100 | 0 | 100 | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | | |
| | | | | | | | | Mean = | | 3 | 100 | 99 | 9 | 100 |
| 4 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 104 | | 0 | 100 | 100 | 10 | 100 |
| | V-10149 | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 312 | 10 | 100 | 100 | 5 | 100 | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | FALBD | A | 614 | 0 | 100 | 100 | 0 | 100 | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 704 | 5 | 100 | 100 | 0 | 100 | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | | |
| | | | | | | | | Mean = | | 4 | 100 | 100 | 4 | 100 |
| 5 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 105 | | 0 | 100 | 98 | 20 | 95 |
| | V-10142 | 0.2 | lb ai/a | 7.76 | oz/a | FALBD | A | 317 | 0 | 100 | 100 | 20 | 100 | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 609 | 3 | 100 | 100 | 30 | 100 | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | 807 | 10 | 100 | 100 | 20 | 100 | |
| | | | | | | | | Mean = | | 3 | 100 | 100 | 23 | 99 |
| 6 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 106 | | 5 | 100 | 98 | 5 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | FALBD | A | 412 | 20 | 100 | 100 | 15 | 100 | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 516 | 0 | 100 | 100 | 0 | 100 | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 812 | 0 | 100 | 100 | 0 | 100 | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | | |
| | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | | | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | | |
| | | | | | | | | Mean = | | 6 | 100 | 100 | 5 | 100 |

Purdue University

| Weed Code | | | | | | | | GLXMA | ERICA | ERICA | GLXMA | ERICA | |
|--------------------|--------------------|--------|---------|--------------|-------------------|----------|-----------|-------------|-------------|------------|-------------|-------------|-----|
| Crop Code | | | | | | | | PLAQUA C | PLAQUA P | PLAQUA P | PLAQUA C | PLAQUA P | |
| Part Rated | | | | | | | | % | % | % | % | % | |
| Rating Unit | | | | | | | | 31/May/2005 | 31/May/2005 | 7/Jul/2005 | 28/Jul/2005 | 28/Jul/2005 | |
| Rating Date | | | | | | | | VC,unifo | | R1 | | | |
| Crop Stage | | | | | | | | DESC | | 12" | 30-36" | | |
| Crop Stage Scale | | | | | | | | | 2-8" | 2-24" | | 4-42" | |
| Weed Stage | | | | | | | | | 13 YD2 | 8 YD2 | | 8 YD2 | |
| Weed Density, Unit | | | | | | | | | WGJ+RD | EC+VAM | VMD | VMD | |
| Assessed By | | | | | | | | 168 DA-A | 168 DA-A | | | | |
| Trt-Eval Interval | | | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | Plot | 11 | 12 | 13 | 14 | 15 |
| 7 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | FALBD | A | 107 | 10 | 100 | 100 | 10 | 100 |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | FALBD | A | 309 | 7 | 100 | 100 | 10 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | FALBD | A | 616 | 0 | 100 | 100 | 0 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 712 | 0 | 100 | 100 | 0 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | | | | | | |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | Mean = | | | | | | | | 4 | 100 | 100 | 5 | 100 |
| 8 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 108 | 7 | 100 | 100 | 15 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 319 | 5 | 100 | 95 | 10 | 95 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 508 | 20 | 100 | 100 | 20 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | 701 | 0 | 100 | 100 | 0 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | Mean = | | | | | | | | 8 | 100 | 99 | 11 | 99 |
| 9 | Valor | 0.096 | lb ai/a | 3 | oz/a | 15 EPP | D | 109 | 10 | 100 | 100 | 5 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 419 | 0 | 70 | 75 | 0 | 75 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 510 | 8 | 80 | 85 | 5 | 85 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | 803 | 8 | 100 | 100 | 0 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | Mean = | | | | | | | | 7 | 88 | 90 | 3 | 90 |
| 10 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 110 | 10 | 100 | 100 | 5 | 100 |
| | FirstRate | 0.021 | lb ai/a | 0.4 | oz/a | 15 EPP | D | 417 | 0 | 100 | 100 | 0 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 507 | 15 | 100 | 100 | 10 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 702 | 3 | 100 | 100 | 5 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | Mean = | | | | | | | | 7 | 100 | 100 | 5 | 100 |
| 11 | Valor | 0.08 | lb ai/a | 2.5 | oz/a | 15 EPP | D | 111 | 5 | 100 | 100 | 15 | 100 |
| | FirstRate | 0.0263 | lb ai/a | 0.5 | oz/a | 15 EPP | D | 308 | 12 | 100 | 100 | 5 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 501 | 0 | 100 | 100 | 0 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 710 | 0 | 100 | 100 | 0 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | Mean = | | | | | | | | 4 | 100 | 100 | 5 | 100 |
| 12 | Valor | 0.096 | lb ai/a | 3 | oz/a | 15 EPP | D | 112 | 5 | 100 | 100 | 15 | 95 |
| | FirstRate | 0.0315 | lb ai/a | 0.6 | oz/a | 15 EPP | D | 418 | 0 | 100 | 100 | 0 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 511 | 12 | 100 | 100 | 15 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 808 | 10 | 100 | 100 | 0 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | Mean = | | | | | | | | 7 | 100 | 100 | 8 | 99 |

Purdue University

| Weed Code | | | | | | | | GLXMA | ERICA | ERICA | GLXMA | ERICA | |
|--------------------|--------------------|-------|---------|--------------|-------------------|----------|-----------|-------------|-------------|------------|-------------|-------------|-----|
| Crop Code | | | | | | | | PLAQUA C | PLAQUA P | PLAQUA P | PLAQUA C | PLAQUA P | |
| Part Rated | | | | | | | | % | % | % | % | % | |
| Rating Unit | | | | | | | | 31/May/2005 | 31/May/2005 | 7/Jul/2005 | 28/Jul/2005 | 28/Jul/2005 | |
| Rating Date | | | | | | | | VC,unifo | | R1 | | | |
| Crop Stage | | | | | | | | DESC | | 12" | 30-36" | | |
| Crop Stage Scale | | | | | | | | | 2-8" | 2-24" | | 4-42" | |
| Weed Stage | | | | | | | | | 13 YD2 | 8 YD2 | | 8 YD2 | |
| Weed Density, Unit | | | | | | | | | WGJ+RD | EC+VAM | VMD | VMD | |
| Assessed By | | | | | | | | 168 DA-A | 168 DA-A | | | | |
| Trt-Eval Interval | | | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stq | Appl Code | Plot | 11 | 12 | 13 | 14 | 15 |
| 13 | Valor | 0.016 | lb ai/a | 0.5 | oz/a | FALBD | A | 113 | 7 | 100 | 100 | 15 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | FALBD | A | 311 | 10 | 100 | 100 | 10 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | 610 | 5 | 100 | 100 | 0 | 100 |
| | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 815 | 8 | 100 | 92 | 0 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| Mean = | | | | | | | | 8 | 100 | 98 | 6 | 100 | |
| 14 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 215 | 5 | 100 | 100 | 0 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 304 | 15 | 100 | 95 | 10 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 608 | 10 | 100 | 100 | 5 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | 716 | 10 | 100 | 100 | 0 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| Mean = | | | | | | | | 10 | 100 | 99 | 4 | 100 | |
| 15 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 115 | 7 | 100 | 95 | 0 | 90 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 302 | 10 | 90 | 80 | 5 | 70 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | 612 | 5 | 100 | 100 | 0 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 706 | 8 | 100 | 100 | 25 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| Mean = | | | | | | | | 8 | 98 | 94 | 8 | 90 | |
| 16 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 116 | 5 | 100 | 90 | 0 | 80 |
| | Weedmaster | 0.484 | lb ae/a | 16 | oz/a | FALBD | A | 306 | 15 | 100 | 95 | 15 | 95 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | 512 | 5 | 100 | 100 | 15 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 801 | 5 | 85 | 95 | 0 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | FALBD | A | | | | | | |
| Mean = | | | | | | | | 8 | 96 | 95 | 8 | 94 | |
| 17 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 45 EPP | B | 117 | 7 | 100 | 98 | 0 | 98 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 45 EPP | B | 408 | 18 | 100 | 100 | 15 | 100 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 45 EPP | B | 518 | 0 | 100 | 93 | 0 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 45 EPP | B | 817 | 5 | 100 | 100 | 10 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 45 EPP | B | | | | | | |
| Mean = | | | | | | | | 8 | 100 | 98 | 6 | 100 | |
| 18 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 30 EPP | C | 118 | 7 | 100 | 100 | 0 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 30 EPP | C | 415 | 7 | 100 | 100 | 0 | 100 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 30 EPP | C | 601 | 0 | 100 | 100 | 0 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 30 EPP | C | 708 | 5 | 95 | 100 | 0 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 30 EPP | C | | | | | | |
| Mean = | | | | | | | | 5 | 99 | 100 | 0 | 100 | |
| 19 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 15 EPP | D | 201 | 0 | 100 | 97 | 0 | 98 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | 409 | 15 | 100 | 100 | 10 | 100 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 15 EPP | D | 517 | 5 | 100 | 100 | 0 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 805 | 8 | 100 | 100 | 0 | 100 |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| Mean = | | | | | | | | 7 | 100 | 99 | 3 | 100 | |

Purdue University

| Weed Code | | | | | | | | | GLXMA | ERICA | ERICA | GLXMA | ERICA |
|--------------------|--------------------------|---------|------------|--------------|-------------------|----------|-----------|------|-------------|-------------|------------|-------------|-------------|
| Crop Code | | | | | | | | | PLAQUA C | PLAQUA P | PLAQUA P | PLAQUA C | PLAQUA P |
| Part Rated | | | | | | | | | % | % | % | % | % |
| Rating Unit | | | | | | | | | 31/May/2005 | 31/May/2005 | 7/Jul/2005 | 28/Jul/2005 | 28/Jul/2005 |
| Rating Date | | | | | | | | | VC,unifo | | R1 | | |
| Crop Stage | | | | | | | | | DESC | | 12" | 30-36" | |
| Crop Stage Scale | | | | | | | | | | 2-8" | 2-24" | | 4-42" |
| Weed Stage | | | | | | | | | | 13 YD2 | 8 YD2 | | 8 YD2 |
| Weed Density, Unit | | | | | | | | | WGJ+RD | WGJ+RD | EC+VAM | VMD | VMD |
| Assessed By | | | | | | | | | 168 DA-A | 168 DA-A | | | |
| Trt-Eval Interval | | | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | Plot | 11 | 12 | 13 | 14 | 15 |
| 20 | FirstRate | 0.025 | lb/a | 0.4 | oz/a | FALBD | A | 202 | 0 | 100 | 80 | 5 | 75 |
| | GF-1279 (IPA-salt glyph) | 0.375 | lb ae/a | 12 | oz/a | FALBD | A | 307 | 10 | 100 | 93 | 20 | 95 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 16 | oz/a | FALBD | A | 618 | 0 | 100 | 100 | 10 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 816 | 0 | 100 | 100 | 5 | 100 |
| | NIS | 1 | pt/100 gal | 1 | pt/100 gal | FALBD | A | | | | | | |
| | Mean = | | | | | | | | 3 | 100 | 93 | 10 | 93 |
| 21 | Python | 0.0625 | lb/a | 1 | oz/a | FALBD | A | 203 | 0 | 100 | 100 | 0 | 100 |
| | GF-1279 (IPA-salt glyph) | 0.375 | lb ae/a | 12 | oz/a | FALBD | A | 301 | 0 | 75 | 40 | 5 | 35 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 16 | oz/a | FALBD | A | 513 | 5 | 100 | 90 | 10 | 90 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | 814 | 0 | 100 | 100 | 10 | 100 |
| | Mean = | | | | | | | | 1 | 94 | 83 | 6 | 81 |
| 22 | Classic | 0.0313 | lb ai/a | 2 | oz/a | FALBD | A | 204 | 3 | 100 | 100 | 5 | 100 |
| | Express | 0.0094 | lb ai/a | 0.2 | oz/a | FALBD | A | 315 | 5 | 100 | 100 | 10 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 603 | 0 | 100 | 100 | 5 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 713 | 5 | 100 | 100 | 5 | 100 |
| | Mean = | | | | | | | | 3 | 100 | 100 | 6 | 100 |
| 23 | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 205 | 10 | 95 | 100 | 25 | 100 |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | 318 | 0 | 100 | 100 | 5 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 506 | 10 | 100 | 100 | 0 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 810 | 0 | 100 | 100 | 0 | 100 |
| | Mean = | | | | | | | | 5 | 99 | 100 | 8 | 100 |
| 24 | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 206 | 3 | 100 | 100 | 10 | 100 |
| | Express | 0.0047 | lb ai/a | 0.1 | oz/a | FALBD | A | 407 | 18 | 100 | 100 | 15 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 602 | 0 | 100 | 100 | 0 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 813 | 0 | 100 | 100 | 0 | 100 |
| | Mean = | | | | | | | | 5 | 100 | 100 | 6 | 100 |
| 25 | Basis | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | 207 | 0 | 100 | 100 | 10 | 95 |
| | Express | 0.00586 | lb ai/a | 0.125 | oz/a | FALBD | A | 410 | 12 | 100 | 100 | 5 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 504 | 8 | 100 | 100 | 5 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 717 | 5 | 100 | 100 | 5 | 100 |
| | Mean = | | | | | | | | 6 | 100 | 100 | 6 | 99 |
| 26 | Matrix | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 208 | 0 | 100 | 100 | 15 | 95 |
| | Harmony GT | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | 305 | 15 | 100 | 95 | 10 | 95 |
| | Express | 0.0078 | lb ai/a | 0.167 | oz/a | FALBD | A | 503 | 0 | 100 | 100 | 5 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 714 | 0 | 100 | 100 | 5 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| | Mean = | | | | | | | | 4 | 100 | 99 | 9 | 98 |
| 27 | Matrix | 0.0625 | lb ai/a | 4 | oz/a | FALBD | A | 209 | 3 | 100 | 100 | 5 | 100 |
| | Harmony GT | 0.0623 | lb ai/a | 1.33 | oz/a | FALBD | A | 413 | 10 | 100 | 98 | 30 | 100 |
| | Express | 0.0314 | lb ai/a | 0.67 | oz/a | FALBD | A | 604 | 3 | 100 | 100 | 5 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 715 | 3 | 95 | 100 | 25 | 95 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| | Mean = | | | | | | | | 5 | 99 | 100 | 16 | 99 |

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| Weed Code | | | | | | | | GLXMA | ERICA | ERICA | GLXMA | ERICA | |
|--------------------|---------------------------|---------|---------|--------------|-------------------|----------|-----------|-------------|-------------|------------|-------------|-------------|-----|
| Crop Code | | | | | | | | PLAQUA C | PLAQUA P | PLAQUA P | PLAQUA C | PLAQUA P | |
| Part Rated | | | | | | | | % | % | % | % | % | |
| Rating Unit | | | | | | | | 31/May/2005 | 31/May/2005 | 7/Jul/2005 | 28/Jul/2005 | 28/Jul/2005 | |
| Rating Date | | | | | | | | VC,unifo | | R1 | | | |
| Crop Stage | | | | | | | | DESC | 2-8" | 12" | 30-36" | 4-42" | |
| Crop Stage Scale | | | | | | | | | 13 YD2 | 8 YD2 | | 8 YD2 | |
| Weed Stage | | | | | | | | | WGJ+RD | EC+VAM | VMD | VMD | |
| Weed Density, Unit | | | | | | | | 168 DA-A | 168 DA-A | | | | |
| Assessed By | | | | | | | | | | | | | |
| Trt-Eval Interval | | | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | Plot | 11 | 12 | 13 | 14 | 15 |
| 28 | Canopy XL | | | | | FALBD | A | 210 | 3 | 100 | 100 | 0 | 100 |
| | Classic | 0.0203 | lb ai/a | 1.3 | oz/a | FALBD | A | 416 | 0 | 100 | 100 | 0 | 100 |
| | Authority | 0.103 | lb ai/a | 2.2 | oz/a | FALBD | A | 505 | 10 | 100 | 100 | 10 | 100 |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | 802 | 0 | 100 | 100 | 0 | 100 |
| | 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 = | 3 | 100 | 100 | 3 | 100 |
| 29 | Untreated Check | | | | | | | 219 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 402 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 615 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | 705 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | Mean = | 0 | 0 | 0 | 0 | 0 |
| 30 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 212 | 3 | 100 | 90 | 5 | 75 |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | 316 | 5 | 100 | 80 | 5 | 90 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 515 | 0 | 10 | 0 | 0 | 0 |
| | | | | | | | | 809 | 0 | 60 | 75 | 20 | 100 |
| | | | | | | | | Mean = | 2 | 68 | 61 | 8 | 66 |
| 31 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 213 | 0 | 100 | 97 | 5 | 90 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 414 | 10 | 97 | 92 | 10 | 90 |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | 611 | 0 | 100 | 90 | 20 | 100 |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | 703 | 5 | 100 | 100 | 10 | 100 |
| | | | | | | | | Mean = | 4 | 99 | 95 | 11 | 95 |
| 32 | Fall Residual Reference | | | | | | | 214 | 5 | 100 | 100 | 0 | 100 |
| | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 401 | 5 | 100 | 100 | 5 | 100 |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | FALBD | A | 613 | 0 | 100 | 100 | 0 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | FALBD | A | 711 | 0 | 100 | 100 | 0 | 100 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | | |
| | | | | | | | | Mean = | 3 | 100 | 100 | 1 | 100 |
| 33 | Spring Residual Reference | | | | | | | 211 | 7 | 100 | 100 | 15 | 100 |
| | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | 30 EPP | C | 403 | 5 | 100 | 100 | 20 | 100 |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | 30 EPP | C | 605 | 5 | 100 | 100 | 0 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 30 EPP | C | 718 | 5 | 100 | 100 | 20 | 100 |
| | 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 | | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | 30 EPP | C | | | | | | |
| | | | | | | | | Mean = | 6 | 100 | 100 | 14 | 100 |
| 34 | Spring glyph. reference | | | | | | | 114 | 5 | 95 | 93 | 0 | 93 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 30 EPP | C | 406 | 7 | 100 | 100 | 15 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 30 EPP | C | 519 | 5 | 70 | 70 | 0 | 75 |
| | | | | | | | | 819 | 8 | 85 | 90 | 5 | 100 |
| | | | | | | | | Mean = | 6 | 88 | 88 | 5 | 92 |
| 35 | Spring glyph/D reference | | | | | | | 119 | 5 | 100 | 97 | 25 | 97 |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | 30 EPP | C | 310 | 5 | 100 | 100 | 5 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 30 EPP | C | 606 | 5 | 100 | 100 | 20 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 30 EPP | C | 719 | 10 | 100 | 100 | 10 | 100 |
| | | | | | | | | Mean = | 6 | 100 | 99 | 15 | 99 |

Purdue University

| Weed Code | | | | | | | | | GLXMA | ERICA | ERICA | GLXMA | ERICA |
|--------------------|--------------------|--------|---------|--------------|-------------------|----------|-----------|------|-------------|-------------|------------|-------------|-------------|
| Crop Code | | | | | | | | | PLAQUA C | PLAQUA P | PLAQUA P | PLAQUA C | PLAQUA P |
| Part Rated | | | | | | | | | % | % | % | % | % |
| Rating Unit | | | | | | | | | 31/May/2005 | 31/May/2005 | 7/Jul/2005 | 28/Jul/2005 | 28/Jul/2005 |
| Rating Date | | | | | | | | | VC,unifo | | R1 | | |
| Crop Stage | | | | | | | | | DESC | | 12" | 30-36" | |
| Crop Stage Scale | | | | | | | | | | 2-8" | 2-24" | | 4-42" |
| Weed Stage | | | | | | | | | | 13 YD2 | 8 YD2 | | 8 YD2 |
| Weed Density, Unit | | | | | | | | | WGJ+RD | WGJ+RD | EC+VAM | VMD | VMD |
| Assessed By | | | | | | | | | 168 DA-A | 168 DA-A | | | |
| Trt-Eval Interval | | | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stq | Appl Code | Plot | 11 | 12 | 13 | 14 | 15 |
| 36 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | 216 | 0 | 100 | 100 | 5 | 100 |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | 404 | 17 | 100 | 100 | 20 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 617 | 0 | 100 | 100 | 15 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 707 | 10 | 100 | 100 | 10 | 100 |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | Mean = | | | | | | | | 7 | 100 | 100 | 13 | 100 |
| 37 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | 217 | 5 | 100 | 100 | 5 | 100 |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | 411 | 12 | 100 | 100 | 0 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 619 | 0 | 100 | 100 | 10 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 709 | 5 | 100 | 100 | 15 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | Mean = | | | | | | | | 6 | 100 | 100 | 8 | 100 |
| 38 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 218 | 5 | 100 | 100 | 5 | 100 |
| | FirstRate | 0.021 | lb ai/a | 0.4 | oz/a | 15 EPP | D | 405 | 20 | 100 | 100 | 15 | 100 |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | 607 | 8 | 100 | 100 | 10 | 100 |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | 806 | 12 | 100 | 100 | 5 | 100 |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | | |
| | Mean = | | | | | | | | 11 | 100 | 100 | 9 | 100 |

Purdue University

Fall and/or Spring Combination Treatments for Glyphosate Resistant Horseweed Control

Trial ID: 04F-SEPAC-GRH
 Location: Butlerville, IN

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

| Weed Code | | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA |
|--------------------|--------------------|--------|---------|--------------|-------------------|----------|-----------|-------------|-------------|-------------|-------------|-------------|
| Crop Code | | | | | | | | PLAQUA P | PLAQUA P | PLAQUA P | PLAQUA P | PLAQUA P |
| Part Rated | | | | | | | | % | % | % | % | % |
| Rating Unit | | | | | | | | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 |
| Rating Date | | | | | | | | | | | | |
| Crop Stage | | | | | | | | | | | | |
| Crop Stage Scale | | | | | | | | | | | | |
| Weed Stage | | | | | | | | 4-6" | 3-4" ros | 2-3" run | 2-4" | 2-3" ros |
| Weed Density, Unit | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 8 YD2 |
| Assessed By | | | | | | | | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt |
| Trt-Eval Interval |  |  |  |  |  |  |  | 134 DA-A | 134 DA-A | 134 DA-A | 134 DA-A | 134 DA-A |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 1 | 2 | 3 | 4 | 5 |
| 1 | Untreated Check | | | | | | | 0 e | 0 c | 0 b | 0 c | 0 c |
| 2 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 88 abc | 100 a | 100 a | 100 a | 100 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 | | | | | |
| 3 | Canopy EX | | | | oz/a | FALBD | A | 89 abc | 100 a | 100 a | 100 a | 100 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 | | | | | |
| 4 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 90 abc | 100 a | 100 a | 100 a | 100 a |
| | V-10149 | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | FALBD | A | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 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 | 84 abc | 100 a | 100 a | 100 a | 100 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 | | | | | |
| 6 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 85 abc | 100 a | 100 a | 100 a | 100 a |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | FALBD | A | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 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 | | | | | |
| | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 7 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | FALBD | A | 84 abc | 100 a | 100 a | 100 a | 100 a |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | FALBD | A | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | FALBD | A | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 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 | | | | | |
| | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | | | | | |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |

Purdue University

| | | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA |
|---------|--------------------|--------|---------|--------------|--------------|----------|-----------|---------------|---------------|---------------|---------------|---------------|
| | | | | | | | | PLAQUA P % | PLAQUA P % | PLAQUA P % | PLAQUA P % | PLAQUA P % |
| | | | | | | | | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 |
| | | | | | | | | 4-6" | 3-4" ros | 2-3" run | 2-4" | 2-3" ros |
| | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 8 YD2 |
| | | | | | | | | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt |
|  |  |  |  |  |  |  |  | 134 DA-A | 134 DA-A | 134 DA-A | 134 DA-A | 134 DA-A |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Unit | Grow Stg | Appl Code | 1 | 2 | 3 | 4 | 5 |
| 8 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 9 | Valor | 0.096 | lb ai/a | 3 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 10 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | | | | | |
| | FirstRate | 0.021 | lb ai/a | 0.4 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 11 | Valor | 0.08 | lb ai/a | 2.5 | oz/a | 15 EPP | D | | | | | |
| | FirstRate | 0.0263 | lb ai/a | 0.5 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 12 | Valor | 0.096 | lb ai/a | 3 | oz/a | 15 EPP | D | | | | | |
| | FirstRate | 0.0315 | lb ai/a | 0.6 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 13 | Valor | 0.016 | lb ai/a | 0.5 | oz/a | FALBD | A | 56 d | 100 a | 100 a | 100 a | 100 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 | | | | | |
| | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 14 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 15 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 94 ab | 100 a | 100 a | 100 a | 100 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 | | | | | |

Purdue University

| Weed Code | | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA |
|--------------------|--------------------------|---------|------------|--------------|--------------|----------|-----------|-------------|-------------|-------------|-------------|-------------|
| Crop Code | | | | | | | | PLAQUA P | PLAQUA P | PLAQUA P | PLAQUA P | PLAQUA P |
| Part Rated | | | | | | | | % | % | % | % | % |
| Rating Unit | | | | | | | | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 |
| Rating Date | | | | | | | | | | | | |
| Crop Stage | | | | | | | | | | | | |
| Crop Stage Scale | | | | | | | | | | | | |
| Weed Stage | | | | | | | | 4-6" | 3-4" ros | 2-3" run | 2-4" | 2-3" ros |
| Weed Density, Unit | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 8 YD2 |
| Assessed By | | | | | | | | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt |
| Trt-Eval Interval |  |  |  |  |  |  |  | 134 DA-A | 134 DA-A | 134 DA-A | 134 DA-A | 134 DA-A |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Unit | Grow Stg | Appl Code | 1 | 2 | 3 | 4 | 5 |
| 16 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 78 bc | 100 a | 100 a | 100 a | 100 a |
| | Weedmaster | 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 | | | | | |
| 17 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 45 EPP | B | | | | | |
| | 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 | | | | | |
| 18 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 30 EPP | 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 | | | | | |
| 19 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 15 EPP | D | | | | | |
| | 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 | | | | | |
| 20 | FirstRate | 0.025 | lb/a | 0.4 | oz/a | FALBD | A | 81 abc | 100 a | 100 a | 100 a | 100 a |
| | GF-1279 (IPA-salt glyph) | 0.375 | lb ae/a | 12 | oz/a | FALBD | A | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 16 | oz/a | FALBD | A | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | |
| | NIS | 1 | pt/100 gal | 1 | pt/100 gal | FALBD | A | | | | | |
| 21 | Python | 0.0625 | lb/a | 1 | oz/a | FALBD | A | 75 c | 100 a | 100 a | 100 a | 100 a |
| | GF-1279 (IPA-salt glyph) | 0.375 | lb ae/a | 12 | oz/a | FALBD | A | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 16 | oz/a | FALBD | A | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | |
| 22 | Classic | 0.0313 | lb ai/a | 2 | oz/a | FALBD | A | 95 ab | 100 a | 100 a | 99 a | 98 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 | | | | | |
| 23 | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 90 abc | 100 a | 100 a | 100 a | 100 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 | | | | | |
| 24 | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 90 abc | 100 a | 100 a | 100 a | 100 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 | | | | | |
| 25 | Basis | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | 83 abc | 100 a | 100 a | 100 a | 100 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 | | | | | |

Purdue University

| Weed Code | | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA |
|--------------------|---------------------------|---------|---------|--------------|-------------------|----------|-----------|-------------|-------------|-------------|-------------|-------------|
| Crop Code | | | | | | | | PLAQUA P | PLAQUA P | PLAQUA P | PLAQUA P | PLAQUA P |
| Part Rated | | | | | | | | % | % | % | % | % |
| Rating Unit | | | | | | | | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 |
| Rating Date | | | | | | | | | | | | |
| Crop Stage | | | | | | | | | | | | |
| Crop Stage Scale | | | | | | | | | | | | |
| Weed Stage | | | | | | | | 4-6" | 3-4" ros | 2-3" run | 2-4" | 2-3" ros |
| Weed Density, Unit | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 8 YD2 |
| Assessed By | | | | | | | | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt |
| Trt-Eval Interval |  |  |  |  |  |  |  | 134 DA-A | 134 DA-A | 134 DA-A | 134 DA-A | 134 DA-A |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 1 | 2 | 3 | 4 | 5 |
| 26 | Matrix | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 88 abc | 100 a | 100 a | 100 a | 100 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 | % v/v | 1 | % v/v | FALBD | A | | | | | |
| 27 | Matrix | 0.0625 | lb ai/a | 4 | oz/a | FALBD | A | 98 a | 100 a | 100 a | 100 a | 100 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 | | | | | |
| 28 | Canopy XL | | | | | FALBD | A | 89 abc | 100 a | 100 a | 100 a | 100 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 | | | | | |
| 29 | Untreated Check | | | | | | | 0 e | 0 c | 0 b | 0 c | 0 c |
| 30 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 43 d | 89 b | 100 a | 46 b | 93 b |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | |
| 31 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 75 c | 100 a | 100 a | 100 a | 100 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 | | | | | |
| 32 | Fall Residual Reference | | | | | | | 93 ab | 100 a | 100 a | 100 a | 100 a |
| | Classic | 0.0234 | lb ai/a | 1.5 | 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 | | | | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | |
| 33 | Spring Residual Reference | | | | | | | | | | | |
| | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | 30 EPP | C | | | | | |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | 30 EPP | 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 | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | 30 EPP | C | | | | | |
| 34 | Spring glyph. reference | | | | | | | | | | | |
| | 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 | | | | | |
| 35 | Spring glyph/D reference | | | | | | | | | | | |
| | 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 | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 30 EPP | C | | | | | |

Purdue University

| | | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA |
|--------------------|--------------------|--------|---------|--------------|-------------------|----------|-----------|-------------|-------------|-------------|-------------|-------------|
| | | | | | | | | PLAQUA P | PLAQUA P | PLAQUA P | PLAQUA P | PLAQUA P |
| | | | | | | | | % | % | % | % | % |
| | | | | | | | | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 | 30/Mar/2005 |
| | | | | | | | | 4-6" | 3-4" ros | 2-3" run | 2-4" | 2-3" ros |
| | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 8 YD2 |
| | | | | | | | | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt | VMD+E0tt |
|  |  |  |  |  |  |  |  | 134 DA-A | 134 DA-A | 134 DA-A | 134 DA-A | 134 DA-A |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stq | Appl Code | 1 | 2 | 3 | 4 | 5 |
| 36 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | | | | | |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 37 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | | | | | |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 38 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | | | | | |
| | FirstRate | 0.021 | lb ai/a | 0.4 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| LSD (P=.05) | | | | | | | | 16.7 | 3.3 | 0.0 | 8.5 | 3.8 |
| Standard Deviation | | | | | | | | 11.8 | 2.3 | 0.0 | 6.0 | 2.7 |
| CV | | | | | | | | 15.58 | 2.55 | 0.0 | 6.76 | 2.97 |
| Grand Mean | | | | | | | | 75.88 | 90.82 | 91.3 | 88.91 | 90.87 |
| Bartlett's X2 | | | | | | | | 27.772 | 0.0 | 0.0 | 10.481 | 2.011 |
| P(Bartlett's X2) | | | | | | | | 0.115 | . | . | 0.001* | 0.156 |
| Replicate F | | | | | | | | 6.117 | 1.000 | 0.000 | 0.942 | 0.896 |
| Replicate Prob(F) | | | | | | | | 0.0010 | 0.3985 | 1.0000 | 0.4253 | 0.4481 |
| Treatment F | | | | | | | | 20.735 | 618.726 | 0.000 | 100.934 | 453.217 |
| Treatment Prob(F) | | | | | | | | 0.0001 | 0.0001 | 1.0000 | 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.

Purdue University

| Weed Code | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA | |
|--------------------|--------------------|--------|---------|--------------|-------------------|----------|------------|------------|------------|------------|------------|--------|
| Crop Code | | | | | | | PLAQUA P | |
| Part Rated | | | | | | | % | % | % | % | % | |
| Rating Unit | | | | | | | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 | |
| Rating Date | | | | | | | | | | | | |
| Crop Stage | | | | | | | | | | | | |
| Crop Stage Scale | | | | | | | | | | | | |
| Weed Stage | | | | | | | 8-12" | bolting | 6-10"run | 4-8" | 3-4" ros | |
| Weed Density, Unit | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 10 YD2 | |
| Assessed By | | | | | | | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD | |
| Trt-Eval Interval | | | | | | | 168 DA-A | |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 6 | 7 | 8 | 9 | 10 |
| 1 | Untreated Check | | | | | | | 0 l | 0 g | 0 e | 0 e | 0 e |
| 2 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 79 a-i | 100 a | 100 a | 100 a | 100 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 | | | | | |
| 3 | Canopy EX | | | | oz/a | FALBD | A | 89 a-e | 100 a | 100 a | 100 a | 100 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 | | | | | |
| 4 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 91 abc | 100 a | 100 a | 100 a | 100 a |
| | V-10149 | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | FALBD | A | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 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 | 80 a-i | 100 a | 100 a | 100 a | 100 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 | | | | | |
| 6 | Valor | 0.064 | lb ai/a | 2 | oz/a | FALBD | A | 86 a-h | 100 a | 100 a | 100 a | 100 a |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | FALBD | A | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 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 | | | | | |
| | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 7 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | FALBD | A | 91 a-d | 100 a | 100 a | 100 a | 100 a |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | FALBD | A | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | FALBD | A | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 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 | | | | | |
| | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | | | | | |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 8 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 82 a-i | 89 cde | 80 cd | 79 bc | 73 bcd |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |

Purdue University

| Weed Code | | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA |
|--------------------|--------------------|--------|---------|--------------|-------------------|----------|-----------|------------|------------|------------|------------|------------|
| Crop Code | | | | | | | | PLAQUA P | PLAQUA P | PLAQUA P | PLAQUA P | PLAQUA P |
| Part Rated | | | | | | | | % | % | % | % | % |
| Rating Unit | | | | | | | | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 |
| Rating Date | | | | | | | | | | | | |
| Crop Stage | | | | | | | | | | | | |
| Crop Stage Scale | | | | | | | | | | | | |
| Weed Stage | | | | | | | | 8-12" | bolting | 6-10"run | 4-8" | 3-4" ros |
| Weed Density, Unit | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 10 YD2 |
| Assessed By | | | | | | | | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD |
| Trt-Eval Interval |  |  |  |  |  |  |  | 168 DA-A | 168 DA-A | 168 DA-A | 168 DA-A | 168 DA-A |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 6 | 7 | 8 | 9 | 10 |
| 9 | Valor | 0.096 | lb ai/a | 3 | oz/a | 15 EPP | D | 65 hij | 88 de | 75 cd | 78 bc | 60 cd |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 10 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 66 g-j | 89 cde | 76 cd | 83 ab | 58 cd |
| | FirstRate | 0.021 | lb ai/a | 0.4 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 11 | Valor | 0.08 | lb ai/a | 2.5 | oz/a | 15 EPP | D | 66 g-j | 93 a-d | 78 cd | 85 ab | 80 abc |
| | FirstRate | 0.0263 | lb ai/a | 0.5 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 12 | Valor | 0.096 | lb ai/a | 3 | oz/a | 15 EPP | D | 56 jk | 90 b-e | 70 d | 88 ab | 66 bcd |
| | FirstRate | 0.0315 | lb ai/a | 0.6 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 13 | Valor | 0.016 | lb ai/a | 0.5 | oz/a | FALBD | A | 70 d-j | 100 a | 88 abc | 100 a | 100 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 | | | | | |
| | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 14 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 65 hij | 90 cde | 81 bcd | 88 ab | 58 cd |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 15 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 93 ab | 100 a | 100 a | 100 a | 100 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 | | | | | |
| 16 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 76 b-j | 100 a | 100 a | 100 a | 100 a |
| | Weedmaster | 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 | | | | | |

Purdue University

| Weed Code | | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA |
|--------------------|--------------------------|---------|------------|--------------|-------------------|----------|-----------|------------|------------|------------|------------|------------|
| Crop Code | | | | | | | | | | | | |
| Part Rated | | | | | | | | PLAQUA P | PLAQUA P | PLAQUA P | PLAQUA P | PLAQUA P |
| Rating Unit | | | | | | | | % | % | % | % | % |
| Rating Date | | | | | | | | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 |
| Crop Stage | | | | | | | | | | | | |
| Crop Stage Scale | | | | | | | | | | | | |
| Weed Stage | | | | | | | | 8-12" | bolting | 6-10"run | 4-8" | 3-4" ros |
| Weed Density, Unit | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 10 YD2 |
| Assessed By | | | | | | | | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD |
| Trt-Eval Interval |  |  |  |  |  |  |  | 168 DA-A | 168 DA-A | 168 DA-A | 168 DA-A | 168 DA-A |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stq | Appl Code | 6 | 7 | 8 | 9 | 10 |
| 17 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 45 EPP | B | 83 a-i | 100 a | 100 a | 83 ab | 100 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 | | | | | |
| 18 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 30 EPP | C | 74 b-j | 98 abc | 98 ab | 75 bc | 75 a-d |
| | 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 | | | | | |
| 19 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 15 EPP | D | 63 ijk | 55 f | 66 d | 78 bc | 50 d |
| | 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 | | | | | |
| 20 | FirstRate | 0.025 | lb/a | 0.4 | oz/a | FALBD | A | 75 b-j | 100 a | 100 a | 100 a | 100 a |
| | GF-1279 (IPA-salt glyph) | 0.375 | lb ae/a | 12 | oz/a | FALBD | A | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 16 | oz/a | FALBD | A | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | |
| | NIS | 1 | pt/100 gal | 1 | pt/100 gal | FALBD | A | | | | | |
| 21 | Python | 0.0625 | lb/a | 1 | oz/a | FALBD | A | 71 c-j | 100 a | 100 a | 100 a | 100 a |
| | GF-1279 (IPA-salt glyph) | 0.375 | lb ae/a | 12 | oz/a | FALBD | A | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 16 | oz/a | FALBD | A | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | |
| 22 | Classic | 0.0313 | lb ai/a | 2 | oz/a | FALBD | A | 90 a-d | 100 a | 100 a | 100 a | 100 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 | | | | | |
| 23 | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 83 a-i | 100 a | 100 a | 100 a | 100 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 | | | | | |
| 24 | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 87 a-g | 99 a | 100 a | 100 a | 100 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 | | | | | |
| 25 | Basis | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | 88 a-f | 98 abc | 98 ab | 100 a | 100 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 | | | | | |
| 26 | Matrix | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 84 a-h | 100 a | 100 a | 100 a | 78 abc |
| | 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 | | | | | |

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| Weed Code | | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA |
|--------------------|---------------------------|---------|---------|--------------|-------------------|----------|-----------|------------|------------|------------|------------|------------|
| Crop Code | | | | | | | | PLAQUA P |
| Part Rated | | | | | | | | % | % | % | % | % |
| Rating Unit | | | | | | | | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 |
| Rating Date | | | | | | | | | | | | |
| Crop Stage | | | | | | | | | | | | |
| Crop Stage Scale | | | | | | | | | | | | |
| Weed Stage | | | | | | | | 8-12" | bolting | 6-10"run | 4-8" | 3-4" ros |
| Weed Density, Unit | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 10 YD2 |
| Assessed By | | | | | | | | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD |
| Trt-Eval Interval |  |  |  |  |  |  |  | 168 DA-A | 168 DA-A | 168 DA-A | 168 DA-A | 168 DA-A |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 6 | 7 | 8 | 9 | 10 |
| 27 | Matrix | 0.0625 | lb ai/a | 4 | oz/a | FALBD | A | 97 a | 100 a | 100 a | 100 a | 100 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 | | | | | |
| 28 | Canopy XL | | | | | FALBD | A | 84 a-h | 100 a | 100 a | 100 a | 100 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 | | | | | |
| 29 | Untreated Check | | | | | | | 0 l | 0 g | 0 e | 0 e | 0 e |
| 30 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 44 k | 88 de | 100 a | 40 d | 60 cd |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | |
| 31 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 83 a-i | 100 a | 100 a | 100 a | 90 ab |
| | 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 | | | | | |
| 32 | Fall Residual Reference | | | | | | | 93 ab | 100 a | 100 a | 100 a | 100 a |
| | Classic | 0.0234 | lb ai/a | 1.5 | 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 | | | | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | |
| 33 | Spring Residual Reference | | | | | | | 79 a-i | 100 a | 100 a | 100 a | 100 a |
| | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | 30 EPP | C | | | | | |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | 30 EPP | 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 | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | 30 EPP | C | | | | | |
| 34 | Spring glyph. reference | | | | | | | 66 g-j | 99 ab | 100 a | 63 c | 50 d |
| | 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 | | | | | |
| 35 | Spring glyph/D reference | | | | | | | 69 e-j | 93 a-d | 90 abc | 90 ab | 100 a |
| | 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 | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 30 EPP | C | | | | | |
| 36 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | 67 f-j | 90 b-e | 80 cd | 84 ab | 71 bcd |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |

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| | | | | | | | | ALLVI | SENGL | STEME | LAMPU | ERICA |
|--------------------|--------------------|--------|-----------|--------------|-------------------|----------|-----------|------------|------------|------------|------------|------------|
| | | | | | | | | PLAQUA P |
| | | | | | | | | % | % | % | % | % |
| | | | | | | | | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 | 3/May/2005 |
| | | | | | | | | 8-12" | bolting | 6-10"run | 4-8" | 3-4" ros |
| | | | | | | | | 45 YD2 | 9 YD2 | 15 YD2 | 7 YD2 | 10 YD2 |
| | | | | | | | | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD | WGJ+VD |
|  |  |  |  |  |  |  |  | 168 DA-A | 168 DA-A | 168 DA-A | 168 DA-A | 168 DA-A |
| Trt No. | Treatment Name | Rate | Rate Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 6 | 7 | 8 | 9 | 10 |
| 37 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | 68 f-j | 81 e | 68 d | 75 bc | 73 bcd |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 38 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 75 b-j | 90 b-e | 89 abc | 88 ab | 76 a-d |
| | FirstRate | 0.021 | lb ai/a | 0.4 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| LSD (P=.05) | | | | | | | | 20.6 | 8.9 | 16.8 | 18.3 | 27.0 |
| Standard Deviation | | | | | | | | 14.7 | 6.4 | 12.0 | 13.1 | 19.3 |
| CV | | | | | | | | 20.16 | 7.07 | 13.7 | 15.2 | 23.5 |
| Grand Mean | | | | | | | | 73.0 | 90.2 | 87.75 | 86.12 | 82.01 |
| Bartlett's X2 | | | | | | | | 48.023 | 42.424 | 18.95 | 12.467 | 6.372 |
| P(Bartlett's X2) | | | | | | | | 0.07 | 0.001* | 0.125 | 0.569 | 0.956 |
| Replicate F | | | | | | | | 2.987 | 0.916 | 4.291 | 5.081 | 4.663 |
| Replicate Prob(F) | | | | | | | | 0.0342 | 0.4356 | 0.0066 | 0.0025 | 0.0042 |
| Treatment F | | | | | | | | 8.039 | 52.692 | 15.449 | 13.919 | 7.329 |
| Treatment Prob(F) | | | | | | | | 0.0001 | 0.0001 | 0.0001 | 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.

Purdue University

| Weed Code | | | | | | | GLXMA | ERICA | ERICA | GLXMA | ERICA | |
|--------------------|--------------------|--------|---------|---------------|-------------------|----------|-------------|-------------|------------|-------------|-------------|-------|
| Crop Code | | | | | | | PLAQUA C | PLAQUA P | PLAQUA P | PLAQUA C | PLAQUA P | |
| Part Rated | | | | | | | % | % | % | % | % | |
| Rating Unit | | | | | | | 31/May/2005 | 31/May/2005 | 7/Jul/2005 | 28/Jul/2005 | 28/Jul/2005 | |
| Rating Date | | | | | | | VC,unifo | | R1 | | | |
| Crop Stage | | | | | | | DESC | 2-8" | 2-24" | 30-36" | 4-42" | |
| Crop Stage Scale | | | | | | | | 13 YD2 | 8 YD2 | | 8 YD2 | |
| Weed Stage | | | | | | | | WGJ+RD | EC+VAM | VMD | VMD | |
| Weed Density, Unit | | | | | | | 168 DA-A | 168 DA-A | | | | |
| Assessed By | | | | | | | | | | | | |
| Trt-Eval Interval | | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 11 | 12 | 13 | 14 | 15 |
| 1 | Untreated Check | | | | | | | 0 a | 0 d | 0 d | 0 h | 0 d |
| 2 | Valor | 0.064 | lb ai/a | 2 oz/a | FALBD | A | | 3 a | 100 a | 100 a | 3 fgh | 100 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 | | | | | | |
| 3 | Canopy EX | | | oz/a | FALBD | A | | 3 a | 100 a | 99 a | 9 b-h | 100 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 | | | | | | |
| 4 | Valor | 0.064 | lb ai/a | 2 oz/a | FALBD | A | | 4 a | 100 a | 100 a | 4 e-h | 100 a |
| | V-10149 | 0.0234 | lb ai/a | 1.5 oz/a | FALBD | A | | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 oz/a | FALBD | A | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 lb/100 gal | FALBD | A | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 pt/a | 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 | | 3 a | 100 a | 100 a | 23 a | 99 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 | | | | | | |
| 6 | Valor | 0.064 | lb ai/a | 2 oz/a | FALBD | A | | 6 a | 100 a | 100 a | 5 d-h | 100 a |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 oz/a | FALBD | A | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 lb/100 gal | 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 | | | | | | |
| | Valor | 0.064 | lb ai/a | 2 oz/a | 15 EPP | D | | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 oz/a | 15 EPP | D | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 lb/100 gal | 15 EPP | D | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 pt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 % v/v | 15 EPP | D | | | | | | |
| 7 | Valor | 0.048 | lb ai/a | 1.5 oz/a | FALBD | A | | 4 a | 100 a | 100 a | 5 d-h | 100 a |
| | FirstRate | 0.0158 | lb ai/a | 0.3 oz/a | FALBD | A | | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 oz/a | FALBD | A | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 lb/100 gal | 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 | | | | | | |
| | Valor | 0.048 | lb ai/a | 1.5 oz/a | 15 EPP | D | | | | | | |
| | FirstRate | 0.0158 | lb ai/a | 0.3 oz/a | 15 EPP | D | | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 oz/a | 15 EPP | D | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 lb/100 gal | 15 EPP | D | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 pt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 % v/v | 15 EPP | D | | | | | | |
| 8 | Valor | 0.064 | lb ai/a | 2 oz/a | 15 EPP | D | | 8 a | 100 a | 99 a | 11 b-f | 99 a |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 oz/a | 15 EPP | D | | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 lb/100 gal | 15 EPP | D | | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 pt/a | 15 EPP | D | | | | | | |
| | NIS | 0.25 | % v/v | 0.25 % v/v | 15 EPP | D | | | | | | |

Purdue University

| Weed Code | | | | | | | | GLXMA | ERICA | ERICA | GLXMA | ERICA |
|--------------------------------|--------------------|--------|---------|--------------|-------------------|----------|-----------|-------------|-------------|------------|-------------|-------------|
| Crop Code | | | | | | | | PLAQUA C | PLAQUA P | PLAQUA P | PLAQUA C | PLAQUA P |
| Part Rated | | | | | | | | % | % | % | % | % |
| Rating Unit | | | | | | | | 31/May/2005 | 31/May/2005 | 7/Jul/2005 | 28/Jul/2005 | 28/Jul/2005 |
| Rating Date | | | | | | | | VC,unifo | | R1 | | |
| Crop Stage | | | | | | | | DESC | 2-8" | 2-24" | 30-36" | 4-42" |
| Crop Stage Scale | | | | | | | | | 13 YD2 | 8 YD2 | | 8 YD2 |
| Weed Stage | | | | | | | | WGJ+RD | WGJ+RD | EC+VAM | VMD | VMD |
| Weed Density, Unit Assessed By | | | | | | | | 168 DA-A | 168 DA-A | | | |
| Trt-Eval Interval | | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 11 | 12 | 13 | 14 | 15 |
| 9 | Valor | 0.096 | lb ai/a | 3 | oz/a | 15 EPP | D | 7 a | 88 b | 90 ab | 3 fgh | 90 ab |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 10 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 7 a | 100 a | 100 a | 5 d-h | 100 a |
| | FirstRate | 0.021 | lb ai/a | 0.4 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 11 | Valor | 0.08 | lb ai/a | 2.5 | oz/a | 15 EPP | D | 4 a | 100 a | 100 a | 5 d-h | 100 a |
| | FirstRate | 0.0263 | lb ai/a | 0.5 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 12 | Valor | 0.096 | lb ai/a | 3 | oz/a | 15 EPP | D | 7 a | 100 a | 100 a | 8 b-h | 99 a |
| | FirstRate | 0.0315 | lb ai/a | 0.6 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 13 | Valor | 0.016 | lb ai/a | 0.5 | oz/a | FALBD | A | 8 a | 100 a | 98 a | 6 c-h | 100 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 | | | | | |
| | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 14 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 10 a | 100 a | 99 a | 4 e-h | 100 a |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 15 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 8 a | 98 ab | 94 ab | 8 b-h | 90 ab |
| | 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 | | | | | |
| 16 | Scepter | 0.123 | lb ae/a | 2.8 | oz/a | FALBD | A | 8 a | 96 ab | 95 ab | 8 b-h | 94 ab |
| | Weedmaster | 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 | | | | | |

Purdue University

| Weed Code | | | | | | | | GLXMA | ERICA | ERICA | GLXMA | ERICA |
|--------------------|--------------------------|---------|------------|--------------|-------------------|----------|-----------|-------------|-------------|------------|-------------|-------------|
| Crop Code | | | | | | | | PLAQUA C | PLAQUA P | PLAQUA P | PLAQUA C | PLAQUA P |
| Part Rated | | | | | | | | % | % | % | % | % |
| Rating Unit | | | | | | | | 31/May/2005 | 31/May/2005 | 7/Jul/2005 | 28/Jul/2005 | 28/Jul/2005 |
| Rating Date | | | | | | | | VC,unifo | | R1 | | |
| Crop Stage | | | | | | | | DESC | | 12" | 30-36" | |
| Crop Stage Scale | | | | | | | | | 2-8" | 2-24" | | 4-42" |
| Weed Stage | | | | | | | | | 13 YD2 | 8 YD2 | | 8 YD2 |
| Weed Density, Unit | | | | | | | | | WGJ+RD | EC+VAM | VMD | VMD |
| Assessed By | | | | | | | | WGJ+RD | WGJ+RD | EC+VAM | VMD | VMD |
| Trt-Eval Interval | | | | | | | | 168 DA-A | 168 DA-A | | | |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stq | Appl Code | 11 | 12 | 13 | 14 | 15 |
| 17 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 45 EPP | B | 8 a | 100 a | 98 a | 6 c-h | 100 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 | | | | | |
| 18 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 30 EPP | C | 5 a | 99 ab | 100 a | 0 h | 100 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 | | | | | |
| 19 | Scepter | 0.092 | lb ae/a | 2.1 | oz/a | 15 EPP | D | 7 a | 100 a | 99 a | 3 fgh | 100 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 | | | | | |
| 20 | FirstRate | 0.025 | lb/a | 0.4 | oz/a | FALBD | A | 3 a | 100 a | 93 ab | 10 b-g | 93 ab |
| | GF-1279 (IPA-salt glyph) | 0.375 | lb ae/a | 12 | oz/a | FALBD | A | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 16 | oz/a | FALBD | A | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | |
| | NIS | 1 | pt/100 gal | 1 | pt/100 gal | FALBD | A | | | | | |
| 21 | Python | 0.0625 | lb/a | 1 | oz/a | FALBD | A | 1 a | 94 ab | 83 b | 6 c-h | 81 b |
| | GF-1279 (IPA-salt glyph) | 0.375 | lb ae/a | 12 | oz/a | FALBD | A | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 16 | oz/a | FALBD | A | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | |
| 22 | Classic | 0.0313 | lb ai/a | 2 | oz/a | FALBD | A | 3 a | 100 a | 100 a | 6 c-h | 100 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 | | | | | |
| 23 | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | FALBD | A | 5 a | 99 ab | 100 a | 8 b-h | 100 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 | | | | | |
| 24 | Classic | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 5 a | 100 a | 100 a | 6 c-h | 100 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 | | | | | |
| 25 | Basis | 0.0155 | lb ai/a | 0.33 | oz/a | FALBD | A | 6 a | 100 a | 100 a | 6 c-h | 99 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 | | | | | |
| 26 | Matrix | 0.0156 | lb ai/a | 1 | oz/a | FALBD | A | 4 a | 100 a | 99 a | 9 b-h | 98 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 | % v/v | 1 | % v/v | FALBD | A | | | | | |

Purdue University

| Weed Code | | | | | | | | GLXMA | ERICA | ERICA | GLXMA | ERICA |
|--------------------|---------------------------|---------|---------|--------------|-------------------|----------|-----------|-------------|-------------|------------|-------------|-------------|
| Crop Code | | | | | | | | PLAQUA C | PLAQUA P | PLAQUA P | PLAQUA C | PLAQUA P |
| Part Rated | | | | | | | | % | % | % | % | % |
| Rating Unit | | | | | | | | 31/May/2005 | 31/May/2005 | 7/Jul/2005 | 28/Jul/2005 | 28/Jul/2005 |
| Rating Date | | | | | | | | VC,unifo | | R1 | | |
| Crop Stage | | | | | | | | DESC | 2-8" | 2-24" | 30-36" | 4-42" |
| Crop Stage Scale | | | | | | | | | 13 YD2 | 8 YD2 | | 8 YD2 |
| Weed Stage | | | | | | | | WGJ+RD | WGJ+RD | EC+VAM | VMD | VMD |
| Weed Density, Unit | | | | | | | | 168 DA-A | 168 DA-A | | | |
| Assessed By | | | | | | | | | | | | |
| Trt-Eval Interval | | | | | | | | | | | | |
| Trt No. | Treatment Name | Rate | Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 11 | 12 | 13 | 14 | 15 |
| 27 | Matrix | 0.0625 | lb ai/a | 4 | oz/a | FALBD | A | 5 a | 99 ab | 100 a | 16 ab | 99 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 | | | | | |
| 28 | Canopy XL | | | | | FALBD | A | 3 a | 100 a | 100 a | 3 fgh | 100 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 | | | | | |
| 29 | Untreated Check | | | | | | | 0 a | 0 d | 0 d | 0 h | 0 d |
| 30 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 2 a | 68 c | 61 c | 8 b-h | 66 c |
| | Nitrogen 28% | 2 | qt/a | 2 | qt/a | FALBD | A | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | |
| 31 | AEF115008 | 0.00179 | lb ai/a | 2 | g ai/ha | FALBD | A | 4 a | 99 a | 95 ab | 11 b-f | 95 ab |
| | 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 | | | | | |
| 32 | Fall Residual Reference | | | | | | | 3 a | 100 a | 100 a | 1 gh | 100 a |
| | Classic | 0.0234 | lb ai/a | 1.5 | 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 | | | | | |
| | Roundup Weathermax | 0.77 | lb ae/a | 22 | oz/a | FALBD | A | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | FALBD | A | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | FALBD | A | | | | | |
| 33 | Spring Residual Reference | | | | | | | 6 a | 100 a | 100 a | 14 a-d | 100 a |
| | Classic | 0.0234 | lb ai/a | 1.5 | oz/a | 30 EPP | C | | | | | |
| | Express | 0.007 | lb ai/a | 0.15 | oz/a | 30 EPP | 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 | | | | | |
| | Crop Oil Conc | 1 | % v/v | 1 | % v/v | 30 EPP | C | | | | | |
| 34 | Spring glyph. reference | | | | | | | 6 a | 88 b | 88 ab | 5 d-h | 92 ab |
| | 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 | | | | | |
| 35 | Spring glyph/D reference | | | | | | | 6 a | 100 a | 99 a | 15 abc | 99 a |
| | 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 | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 30 EPP | C | | | | | |
| 36 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | 7 a | 100 a | 100 a | 13 b-e | 100 a |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 0.5 | lb ae/a | 1 | pt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |

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| Weed Code | | | | | | | | GLXMA | ERICA | ERICA | GLXMA | ERICA |
|--------------------|--------------------|--------|-----------|--------------|-------------------|----------|-----------|-------------|-------------|------------|-------------|-------------|
| Crop Code | | | | | | | | PLAQUA C | PLAQUA P | PLAQUA P | PLAQUA C | PLAQUA P |
| Part Rated | | | | | | | | % | % | % | % | % |
| Rating Unit | | | | | | | | | | | | |
| Rating Date | | | | | | | | 31/May/2005 | 31/May/2005 | 7/Jul/2005 | 28/Jul/2005 | 28/Jul/2005 |
| Crop Stage | | | | | | | | VC,unifo | | R1 | | |
| Crop Stage Scale | | | | | | | | DESC | | 12" | 30-36" | |
| Weed Stage | | | | | | | | | 2-8" | 2-24" | | 4-42" |
| Weed Density, Unit | | | | | | | | | 13 YD2 | 8 YD2 | | 8 YD2 |
| Assessed By | | | | | | | | WGJ+RD | WGJ+RD | EC+VAM | VMD | VMD |
| Trt-Eval Interval | | | | | | | | 168 DA-A | 168 DA-A | | | |
| Trt No. | Treatment Name | Rate | Rate Unit | Product Rate | Product Rate Unit | Grow Stg | Appl Code | 11 | 12 | 13 | 14 | 15 |
| 37 | Valor | 0.048 | lb ai/a | 1.5 | oz/a | 15 EPP | D | 6 a | 100 a | 100 a | 8 b-h | 100 a |
| | FirstRate | 0.0158 | lb ai/a | 0.3 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| 38 | Valor | 0.064 | lb ai/a | 2 | oz/a | 15 EPP | D | 11 a | 100 a | 100 a | 9 b-h | 100 a |
| | FirstRate | 0.021 | lb ai/a | 0.4 | oz/a | 15 EPP | D | | | | | |
| | Roundup Weathermax | 0.387 | lb ae/a | 11 | oz/a | 15 EPP | D | | | | | |
| | Ammonium Sulfate | 2.55 | lb/a | 17 | lb/100 gal | 15 EPP | D | | | | | |
| | 2,4-D ESTER | 1 | lb ae/a | 1 | qt/a | 15 EPP | D | | | | | |
| | NIS | 0.25 | % v/v | 0.25 | % v/v | 15 EPP | D | | | | | |
| LSD (P=.05) | | | | | | | | 6.6 | 11.3 | 12.6 | 9.5 | 14.0 |
| Standard Deviation | | | | | | | | 4.7 | 8.1 | 9.0 | 6.8 | 10.0 |
| CV | | | | | | | | 93.21 | 8.7 | 9.83 | 97.36 | 10.88 |
| Grand Mean | | | | | | | | 5.05 | 92.78 | 91.76 | 6.97 | 91.85 |
| Bartlett's X2 | | | | | | | | 38.888 | 53.791 | 125.467 | 32.04 | 106.556 |
| P(Bartlett's X2) | | | | | | | | 0.299 | 0.001* | 0.001* | 0.564 | 0.001* |
| Replicate F | | | | | | | | 8.706 | 1.148 | 1.362 | 2.046 | 1.347 |
| Replicate Prob(F) | | | | | | | | 0.0001 | 0.3329 | 0.2581 | 0.1116 | 0.2630 |
| Treatment F | | | | | | | | 1.145 | 32.300 | 26.076 | 1.939 | 20.978 |
| Treatment Prob(F) | | | | | | | | 0.2898 | 0.0001 | 0.0001 | 0.0043 | 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.