

Ohio State University
Horticulture and Crop Science

On farm marestail plots

Title No. 2:

Trial ID: 12 MMA Protocol ID: 12 MMA
 Location: Western Branch Study Director: Bryan Reeb
 Project ID: 12 MMA Investigator: Dr. Mark M. Loux
 Sponsor Contact:

General Trial Information

Study Director: Bryan Reeb Title: Research Technician
 Investigator: Dr. Mark M. Loux Title: Professor

Trial Location

Latitude of LL Corner °: 39.8587 N
 Longitude of LL Corner °: 83.67171 W

Crop Description

Crop 1: GLXMA Glycine max Soybean
 Variety: Pioneer 93Y51 Description: Round Up Ready
 BBCH Scale: BSOY Planting Date: Apr-30-2012
 Planting Method: PLANTD planted Rate, Unit: 225000 P/A
 Depth, Unit: 0.5 in
 Row Spacing, Unit: 15 in
 Seed Bed: MEDIUM medium Soil Temperature, Unit: 63 F
 Soil Moisture: SLIWET slightly wet

Pest Description

- Pest 1 Type: W Code: LAMPU Lamium purpureum
Common Name: Purple deadnettel
- Pest 2 Type: W Code: STEME Stellaria media
Common Name: Common chickweed
- Pest 3 Type: W Code: CAPBP Capsella bursa-pastoris
Common Name: Shepherd's purse
- Pest 4 Type: W Code: RANAB Ranunculus abortivus
Common Name: Smallflower buttercup
- Pest 5 Type: W Code: ERYRE Erysimum repandum
Common Name: Bushy wallflower
- Pest 6 Type: W Code: VERAG Veronica agrestis
Common Name: Field speedwell
- Pest 7 Type: W Code: VERPG Veronica peregrina
Common Name: Purslane speedwell
- Pest 8 Type: W Code: ERICA Conyza canadensis
Common Name: Canada horseweed
- Pest 9 Type: W Code: AMBTR Ambrosia trifida
Common Name: Giant ragweed

Site and Design

Plot Width, Unit: 10 FT
 Plot Length, Unit: 30 FT
 Plot Area, Unit: 300 FT²
 Replications: 3 Study Design: RACOBL Randomized Complete Block (RCB)

Application Description

| | A | B | C | D |
|-------------------------|------------|-------------|------------|-------------|
| Application Date: | Apr-2-2012 | Apr-25-2012 | May-2-2012 | May-31-2012 |
| Time of Day: | 9:00 AM | 9:30 AM | 10:00 AM | 2:30 PM |
| Application Method: | SPRAY | SPRAY | SPRAY | SPRAY |
| Application Timing: | 30 EPP | 7 EPP | ATPL | ATPL |
| Application Placement: | BROFOL | BROFOL | BROFOL | BROFOL |
| Applied By: | | REEB | REEB | |
| Air Temperature, Unit: | 42.5 F | 55 F | 71 F | 63 F |
| % Relative Humidity: | 78.5 | 62 | 81 | 66 |
| Wind Velocity, Unit: | 7.2 MPH | 5 MPH | 7 MPH | 4 MPH |
| Wind Direction: | NE | S | SSW | NNE |
| Dew Presence (Y/N): | N no | N no | N no | N no |
| Soil Temperature, Unit: | 47 F | 45 F | 60 F | 64 F |
| Soil Moisture: | NORMAL | GOOD | WET | DRY |
| % Cloud Cover: | 1 | 3 | 0 | 0 |
| Next Rain Occurred On: | | | | Jun-1-2012 |

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Crop Stage At Each Application

Crop 1 Code, BBCH Scale: GLXMA BSOY GLXMA BSOY GLXMA BSOY GLXMA BSOY

Pest Stage At Each Application

| | A | | B | | C | | D | |
|---------------------------|-------|-----|-------|-----|-------|-----|-------|-----|
| Pest 1 Code, Type, Scale: | LAMPU | W | LAMPU | W | LAMPU | W | LAMPU | W |
| Stage Majority, Percent: | 65 | 100 | 65 | 100 | | | 65 | 100 |
| Diameter, Unit: | 3 | IN | 5 | IN | | | | |
| Height, Unit: | 6 | IN | 6 | IN | | | 5 | IN |
| Height Minimum, Maximum: | 4 | 6 | 5 | 6 | | | 3 | 5 |
| Density, Unit: | 5.32 | m2 | 5.32 | m2 | | | 5.32 | m2 |
| Pest 2 Code, Type, Scale: | STEME | W | STEME | W | STEME | W | STEME | W |
| Stage Majority, Percent: | 19 | 100 | 65 | 100 | | | 65 | 100 |
| Diameter, Unit: | 5 | IN | 6 | IN | | | 10 | IN |
| Height, Unit: | 2 | IN | 2 | IN | | | 3 | IN |
| Height Minimum, Maximum: | 1 | 2 | 1 | 2 | | | 1 | 3 |
| Density, Unit: | 6.65 | m2 | 6.65 | m2 | | | 6.65 | m2 |
| Pest 3 Code, Type, Scale: | CAPBP | W | CAPBP | W | CAPBP | W | CAPBP | W |
| Stage Majority, Percent: | 55 | 100 | 65 | 100 | | | 65 | 100 |
| Height, Unit: | 12 | IN | 18 | IN | | | 12 | IN |
| Height Minimum, Maximum: | 10 | 12 | 15 | 18 | | | 10 | 12 |
| Density, Unit: | 5.32 | m2 | 5.32 | m2 | | | 5.32 | m2 |
| Pest 4 Code, Type, Scale: | RANAB | W | RANAB | W | RANAB | W | RANAB | W |
| Stage Majority, Percent: | 55 | 100 | | | | | | |
| Height, Unit: | 15 | IN | | | | | | |
| Height Minimum, Maximum: | 14 | | | | | | | |
| Density, Unit: | 0.25 | m2 | | | | | | |
| Pest 5 Code, Type, Scale: | ERYRE | W | ERYRE | W | ERYRE | W | ERYRE | W |
| Stage Majority, Percent: | 55 | 100 | 65 | 100 | | | 65 | 100 |
| Height, Unit: | 11 | IN | 16 | IN | | | 14 | IN |
| Height Minimum, Maximum: | 9 | 11 | 14 | 16 | | | 12 | 14 |
| Density, Unit: | 1.33 | m2 | 1.33 | m2 | | | 1.33 | m2 |
| Pest 6 Code, Type, Scale: | VERAG | W | VERAG | W | VERAG | W | VERAG | W |
| Stage Majority, Percent: | 65 | 100 | 65 | 100 | | | 65 | 100 |
| Diameter, Unit: | 3.5 | IN | 6 | IN | | | 8 | IN |
| Height, Unit: | 1 | IN | 1 | IN | | | 2 | IN |
| Height Minimum, Maximum: | 0.5 | 1 | | | | | 1 | 2 |
| Density, Unit: | 10.64 | m2 | 10.64 | m2 | | | 10.64 | m2 |
| Pest 7 Code, Type, Scale: | VERPG | W | VERPG | W | VERPG | W | VERPG | W |
| Stage Majority, Percent: | 19 | 100 | 65 | 100 | | | | |
| Diameter, Unit: | 6 | IN | 6 | IN | | | | |
| Height, Unit: | 3 | IN | 5 | IN | | | | |
| Height Minimum, Maximum: | 2 | 3 | 4 | 5 | | | | |
| Density, Unit: | 0.25 | m2 | 0.25 | m2 | | | | |
| Pest 8 Code, Type, Scale: | ERICA | W | ERICA | W | ERICA | W | ERICA | W |
| Stage Majority, Percent: | | | 19 | 100 | 18 | 100 | 18 | 100 |
| Diameter, Unit: | | | 4 | IN | 1 | IN | 1 | IN |
| Height, Unit: | | | 3 | IN | 0.5 | IN | 2 | IN |
| Height Minimum, Maximum: | | | 1 | 3 | 0.25 | 0.5 | 1 | 2 |
| Density, Unit: | | | 17.29 | m2 | 17.29 | m2 | 17.29 | m2 |
| Pest 9 Code, Type, Scale: | AMBTR | W | AMBTR | W | AMBTR | W | AMBTR | W |
| Stage Majority, Percent: | | | 18 | 100 | | | | |
| Height, Unit: | | | 3 | IN | | | | |
| Height Minimum, Maximum: | | | 1 | 3 | | | | |
| Density, Unit: | | | 0.25 | m2 | | | | |

Application Equipment

| | A | | B | | C | | D | |
|---------------------------|----------|--------|----------|--------|----------|--------|----------|---------|
| Appl. Equipment: | Backpack | | Backpack | | Backpack | | Backpack | |
| Equipment Type: | SPRBAC | | SPRBAC | | SPRBAC | | SPRBAC | |
| Operation Pressure, Unit: | 44 | PSI | 44 | PSI | 44 | PSI | 44 | PSI |
| Nozzle Type: | AIXR | | AIXR | | AIXR | | AIXR | |
| Nozzle Size: | 110015 | | 110015 | | 110015 | | 110015 | |
| Nozzle Spacing, Unit: | 18 | IN | 18 | IN | 18 | IN | 18 | IN |
| Boom Length, Unit: | 10 | FT | 10 | FT | 10 | FT | 10 | FT |
| Boom Height, Unit: | 18 | IN | 18 | IN | 18 | IN | 18 | IN |
| Ground Speed, Unit: | 3 | MPH | 3 | MPH | 3 | MPH | 3 | MPH |
| Carrier: | WATER | | WATER | | WATER | | WATER | |
| Spray Volume, Unit: | 15 | gal/ac | 15 | gal/ac | 15 | gal/ac | 15 | gal/ac |
| Mix Size, Unit: | 2 | Liters | 2 | Liters | 2 | Liters | 3 | Gallons |
| Propellant: | COMCO2 | | COMCO2 | | COMCO2 | | COMCO2 | |

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Project ID: 12 MMAProtocol ID: 12 MMA
Study Director: Bryan Reeb
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Sponsor Contact:

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|-------------------------------|-----------------|-----------------|-----------------|-----------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed |
| Pest Code | LAMPU | STEME | VERAG | CAPBP |
| Pest Scientific Name | Lamium purpure> | Stellaria media | Veronica agres> | Capsella bursa> |
| Pest Name | Purple deadnet> | Common chickwe> | Field speedwell | Shepherd's pur> |
| Rating Date | Apr-30-2012 | Apr-30-2012 | Apr-30-2012 | Apr-30-2012 |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO |
| Rating Unit | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 28 5 | 28 5 | 28 5 | 28 5 |
| Plant-Eval Interval | 0 DP-1 | 0 DP-1 | 0 DP-1 | 0 DP-1 |

| Trt | Treatment | Rate | Other | Other | Growth | Appl | 1 | 2 | 3 | 4 | |
|-----|----------------------|----------------|-------|-----------|--------|----------|------|---------|---------|---------|---------|
| No. | Name | Rate | Unit | Rate | Unit | Stage | Code | | | | |
| 1 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 100.0 a | 100.0 a | 100.0 a | 99.3 a |
| | 1 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | | | |
| | 1 Valor XLT @ 4.5 oz | | | | | | | | | | |
| | 1 Valor SX | 0.075 lb ai/a | | 2.35 oz/a | | 30 EPP A | | | | | |
| | 1 Classic | 0.0258 lb ai/a | | 1.65 oz/a | | 30 EPP A | | | | | |
| | 1 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | | | |
| 2 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 99.3 a | 100.0 a | 98.7 ab | 100.0 a |
| | 2 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | | | |
| | 2 Valor SX | 0.064 lb ai/a | | 2 oz/a | | 30 EPP A | | | | | |
| | 2 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | | | |
| 3 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 98.7 a | 100.0 a | 100.0 a | 100.0 a |
| | 3 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | | | |
| | 3 Valor SX | 0.096 lb ai/a | | 3 oz/a | | 30 EPP A | | | | | |
| | 3 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | | | |
| 4 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 100.0 a | 100.0 a | 99.3 a | 99.3 a |
| | 4 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | | | |
| | 4 Sencor 75DF | 0.375 lb ai/a | | 8 oz/a | | 30 EPP A | | | | | |
| | 4 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | | | |
| 5 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 100.0 a | 100.0 a | 100.0 a | 100.0 a |
| | 5 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | | | |
| | 5 Sencor 75DF | 0.56 lb ai/a | | 12 oz/a | | 30 EPP A | | | | | |
| | 5 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | | | |
| 6 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 95.0 a | 100.0 a | 90.0 b | 100.0 a |
| | 6 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | | | |
| | 6 Spartan | 0.078 lb ai/a | | 2.5 oz/a | | 30 EPP A | | | | | |
| | 6 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | | | |
| 7 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 100.0 a | 100.0 a | 95.0 ab | 100.0 a |
| | 7 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | | | |
| | 7 Spartan | 0.156 lb ai/a | | 5 oz/a | | 30 EPP A | | | | | |
| | 7 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | | | |
| 8 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 7 EPP B | | 11.7 b | 11.7 b | 6.7 cd | 10.0 b |
| | 8 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 7 EPP B | | | | | |
| | 8 Valor XLT @ 4.5 oz | | | | | | | | | | |
| | 8 Valor SX | 0.075 lb ai/a | | 2.35 oz/a | | 7 EPP B | | | | | |
| | 8 Classic | 0.0258 lb ai/a | | 1.65 oz/a | | 7 EPP B | | | | | |
| | 8 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 7 EPP B | | | | | |
| 9 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 7 EPP B | | 11.7 b | 11.7 b | 8.3 cd | 5.0 c |
| | 9 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 7 EPP B | | | | | |
| | 9 Valor SX | 0.064 lb ai/a | | 2 oz/a | | 7 EPP B | | | | | |
| | 9 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 7 EPP B | | | | | |
| 10 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 7 EPP B | | 10.0 b | 11.7 b | 10.0 c | 5.0 c |
| | 10 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 7 EPP B | | | | | |
| | 10 Valor SX | 0.096 lb ai/a | | 3 oz/a | | 7 EPP B | | | | | |

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.

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| Pest Type | W Weed | W Weed | W Weed | W Weed | | | | | | | |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|------|--------------|-----------|---------|---------|---------|--------|
| Pest Code | LAMPU | STEME | VERAG | CAPBP | | | | | | | |
| Pest Scientific Name | Lamium purpure> | Stellaria media | Veronica agres> | Capsella bursa> | | | | | | | |
| Pest Name | Purple deadnet> | Common chickwe> | Field speedwell | Shepherd's pur> | | | | | | | |
| Rating Date | Apr-30-2012 | Apr-30-2012 | Apr-30-2012 | Apr-30-2012 | | | | | | | |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | | | | | | | |
| Rating Unit | % | % | % | % | | | | | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | | | | | | | |
| Days After First/Last Applic. | 28 5 | 28 5 | 28 5 | 28 5 | | | | | | | |
| Plant-Eval Interval | 0 DP-1 | 0 DP-1 | 0 DP-1 | 0 DP-1 | | | | | | | |
| Trt Treatment | Rate | Unit | Other Rate | Other Rate | Unit | Growth Stage | Appl Code | 1 | 2 | 3 | 4 |
| 10 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 7 EPP | B | | | | |
| 11 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 7 EPP | B | 0.0 c | 0.0 d | 0.0 d | 1.7 cd |
| 11 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 7 EPP | B | | | | |
| 11 Sencor 75DF | 0.375 lb | ai/a | 8 oz/a | | | 7 EPP | B | | | | |
| 11 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 7 EPP | B | | | | |
| 12 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 7 EPP | B | 8.3 b | 6.7 c | 1.7 cd | 1.7 cd |
| 12 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 7 EPP | B | | | | |
| 12 Sencor 75DF | 0.56 lb | ai/a | 12 oz/a | | | 7 EPP | B | | | | |
| 12 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 7 EPP | B | | | | |
| 13 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 7 EPP | B | 10.0 b | 8.3 bc | 8.3 cd | 3.3 cd |
| 13 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 7 EPP | B | | | | |
| 13 Spartan | 0.078 lb | ai/a | 2.5 oz/a | | | 7 EPP | B | | | | |
| 13 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 7 EPP | B | | | | |
| 14 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 7 EPP | B | 8.3 b | 10.0 bc | 5.0 cd | 5.0 c |
| 14 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 7 EPP | B | | | | |
| 14 Spartan | 0.156 lb | ai/a | 5 oz/a | | | 7 EPP | B | | | | |
| 14 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 7 EPP | B | | | | |
| 15 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 30 EPP | A | 99.3 a | 100.0 a | 92.7 ab | 98.3 a |
| 15 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 30 EPP | A | | | | |
| 15 Valor XLT @ 2oz | | | | | | | | | | | |
| 15 Valor SX | 0.0373 lb | ai/a | 1.17 oz/a | | | 30 EPP | A | | | | |
| 15 Classic | 0.013 lb | ai/a | 0.83 oz/a | | | 30 EPP | A | | | | |
| 15 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 30 EPP | A | | | | |
| 15 Liberty | 0.402 lb | ai/a | 22 oz/a | | | ATPL | C | | | | |
| 15 Valor XLT @ 2oz | | | | | | | | | | | |
| 15 Valor SX | 0.0373 lb | ai/a | 1.17 oz/a | | | ATPL | C | | | | |
| 15 Classic | 0.013 lb | ai/a | 0.83 oz/a | | | ATPL | C | | | | |
| 15 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | ATPL | C | | | | |
| 16 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 30 EPP | A | 98.7 a | 100.0 a | 98.7 ab | 99.3 a |
| 16 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 30 EPP | A | | | | |
| 16 Valor SX | 0.032 lb | ai/a | 1 oz/a | | | 30 EPP | A | | | | |
| 16 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 30 EPP | A | | | | |
| 16 Liberty | 0.402 lb | ai/a | 22 oz/a | | | ATPL | C | | | | |
| 16 Valor SX | 0.048 lb | ai/a | 1.5 oz/a | | | ATPL | C | | | | |
| 16 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | ATPL | C | | | | |
| 17 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 30 EPP | A | 100.0 a | 100.0 a | 95.0 ab | 97.7 a |
| 17 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 30 EPP | A | | | | |
| 17 Sencor 75DF | 0.188 lb | ai/a | 4 oz/a | | | 30 EPP | A | | | | |
| 17 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 30 EPP | A | | | | |
| 17 Liberty | 0.402 lb | ai/a | 22 oz/a | | | ATPL | C | | | | |
| 17 Sencor 75DF | 0.28 lb | ai/a | 6 oz/a | | | ATPL | C | | | | |
| 17 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | ATPL | C | | | | |
| 18 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 30 EPP | A | 98.7 a | 100.0 a | 98.0 ab | 98.7 a |
| 18 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 30 EPP | A | | | | |
| 18 Spartan | 0.047 lb | ai/a | 1.5 oz/a | | | 30 EPP | A | | | | |
| 18 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 30 EPP | A | | | | |
| 18 Liberty | 0.402 lb | ai/a | 22 oz/a | | | ATPL | C | | | | |
| 18 Spartan | 0.0625 lb | ai/a | 2 oz/a | | | ATPL | C | | | | |
| 18 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | ATPL | C | | | | |
| 19 Liberty | 0.402 lb | ai/a | 22 oz/a | | | ATPL | D | 0.0 c | 1.7 d | 0.0 d | 0.0 d |
| 19 Sencor 75DF | 0.188 lb | ai/a | 4 oz/a | | | ATPL | D | | | | |
| 19 Valor XLT @ 4oz | | | | | | | D | | | | |
| 19 Valor SX | 0.075 lb | ai/a | 2.35 oz/a | | | ATPL | D | | | | |
| 19 Classic | 0.0258 lb | ai/a | 1.65 oz/a | | | ATPL | D | | | | |
| 19 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | ATPL | D | | | | |

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| Pest Type | W Weed | W Weed | W Weed | W Weed | | | | | |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|------------|--------|-------|-------|-------|
| Pest Code | LAMPU | STEME | VERAG | CAPBP | | | | | |
| Pest Scientific Name | Lamium purpure> | Stellaria media | Veronica agres> | Capsella bursa> | | | | | |
| Pest Name | Purple deadnet> | Common chickwe> | Field speedwell | Shepherd's pur> | | | | | |
| Rating Date | Apr-30-2012 | Apr-30-2012 | Apr-30-2012 | Apr-30-2012 | | | | | |
| Rating Type | CONTRO | CONTRO | CONTRO | CONTRO | | | | | |
| Rating Unit | % | % | % | % | | | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | | | | | |
| Days After First/Last Applic. | 28 5 | 28 5 | 28 5 | 28 5 | | | | | |
| Plant-Eval Interval | 0 DP-1 | 0 DP-1 | 0 DP-1 | 0 DP-1 | | | | | |
| Trt Treatment | Rate | Other Rate | Other Rate | Growth Unit | Appl Stage | 1 | 2 | 3 | 4 |
| No. Name | Unit | | | | Code | | | | |
| 20 Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 7 EPP | B | 5.0 bc | 1.7 d | 0.0 d | 0.0 d |
| 20 2,4-D | 0.5 lb ai/a | 1 pt/a | | 7 EPP | B | | | | |
| 20 N-pak ams | 2.5 % v/v | 1.5 qt/a | | 7 EPP | B | | | | |
| LSD (P=.05) | | | | | | 7.28 | 4.94 | 8.70 | 3.63 |
| Standard Deviation | | | | | | 4.41 | 2.99 | 5.27 | 2.20 |
| CV | | | | | | 7.65 | 5.15 | 9.53 | 3.92 |

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| | | W Weed | | W Weed | | W Weed | | W Weed | | |
|-----|--------------------|-----------------|-----------|-----------------|----------|-----------------|---------|----------------|----------|----------|
| | | ERYRE | | ERICA | | ERICA | | SETFA | | |
| | | Erysimum repa> | | Conyza canaden> | | Conyza canaden> | | Setaria faberi | | |
| | | Bushy wallflow> | | Canada horsewe> | | Canada horsewe> | | Giant foxtail | | |
| | | Apr-30-2012 | | Apr-30-2012 | | May-3-2012 | | May-29-2012 | | |
| | | CONTRO | | CONTRO | | COUNT | | CONTRO | | |
| | | % | | % | | M2 | | % | | |
| | | 1 | | 1 | | 1 | | 1 | | |
| | | 28 5 | | 28 5 | | 31 1 | | 57 27 | | |
| | | 0 DP-1 | | 0 DP-1 | | 3 DP-1 | | 29 DP-1 | | |
| Trt | Treatment | Rate | Other | Other | Growth | Appl | | | | |
| No. | Name | Rate | Rate | Rate | Stage | Code | 5 | 6 | 7 | 8 |
| 1 | Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 30 EPP A | | 100.0 a | 73.3 ab | 2.0 d | 70.0 a-d |
| 1 | 2,4-D | 0.5 lb ai/a | 1 pt/a | | 30 EPP A | | | | | |
| 1 | Valor XLT @ 4.5 oz | | | | | | | | | |
| 1 | Valor SX | 0.075 lb ai/a | 2.35 oz/a | | 30 EPP A | | | | | |
| 1 | Classic | 0.0258 lb ai/a | 1.65 oz/a | | 30 EPP A | | | | | |
| 1 | N-pak ams | 2.5 % v/v | 1.5 qt/a | | 30 EPP A | | | | | |
| 2 | Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 30 EPP A | | 100.0 a | 65.0 b | 11.3 bcd | 50.0 d-g |
| 2 | 2,4-D | 0.5 lb ai/a | 1 pt/a | | 30 EPP A | | | | | |
| 2 | Valor SX | 0.064 lb ai/a | 2 oz/a | | 30 EPP A | | | | | |
| 2 | N-pak ams | 2.5 % v/v | 1.5 qt/a | | 30 EPP A | | | | | |
| 3 | Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 30 EPP A | | 100.0 a | 65.0 b | 15.3 bcd | 43.3 fg |
| 3 | 2,4-D | 0.5 lb ai/a | 1 pt/a | | 30 EPP A | | | | | |
| 3 | Valor SX | 0.096 lb ai/a | 3 oz/a | | 30 EPP A | | | | | |
| 3 | N-pak ams | 2.5 % v/v | 1.5 qt/a | | 30 EPP A | | | | | |
| 4 | Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 30 EPP A | | 100.0 a | 85.0 ab | 0.3 d | 20.0 h |
| 4 | 2,4-D | 0.5 lb ai/a | 1 pt/a | | 30 EPP A | | | | | |
| 4 | Sencor 75DF | 0.375 lb ai/a | 8 oz/a | | 30 EPP A | | | | | |
| 4 | N-pak ams | 2.5 % v/v | 1.5 qt/a | | 30 EPP A | | | | | |
| 5 | Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 30 EPP A | | 100.0 a | 85.0 ab | 0.3 d | 20.0 h |
| 5 | 2,4-D | 0.5 lb ai/a | 1 pt/a | | 30 EPP A | | | | | |
| 5 | Sencor 75DF | 0.56 lb ai/a | 12 oz/a | | 30 EPP A | | | | | |
| 5 | N-pak ams | 2.5 % v/v | 1.5 qt/a | | 30 EPP A | | | | | |
| 6 | Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 30 EPP A | | 100.0 a | 76.7 ab | 5.0 cd | 40.0 fgh |
| 6 | 2,4-D | 0.5 lb ai/a | 1 pt/a | | 30 EPP A | | | | | |
| 6 | Spartan | 0.078 lb ai/a | 2.5 oz/a | | 30 EPP A | | | | | |
| 6 | N-pak ams | 2.5 % v/v | 1.5 qt/a | | 30 EPP A | | | | | |
| 7 | Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 30 EPP A | | 100.0 a | 73.3 ab | 4.0 d | 53.3 d-g |
| 7 | 2,4-D | 0.5 lb ai/a | 1 pt/a | | 30 EPP A | | | | | |
| 7 | Spartan | 0.156 lb ai/a | 5 oz/a | | 30 EPP A | | | | | |
| 7 | N-pak ams | 2.5 % v/v | 1.5 qt/a | | 30 EPP A | | | | | |
| 8 | Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 7 EPP B | | 8.3 b | 10.0 c | 1.0 d | 90.0 a |
| 8 | 2,4-D | 0.5 lb ai/a | 1 pt/a | | 7 EPP B | | | | | |
| 8 | Valor XLT @ 4.5 oz | | | | | | | | | |
| 8 | Valor SX | 0.075 lb ai/a | 2.35 oz/a | | 7 EPP B | | | | | |
| 8 | Classic | 0.0258 lb ai/a | 1.65 oz/a | | 7 EPP B | | | | | |
| 8 | N-pak ams | 2.5 % v/v | 1.5 qt/a | | 7 EPP B | | | | | |
| 9 | Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 7 EPP B | | 6.7 bc | 13.3 c | 3.7 d | 66.7 b-e |
| 9 | 2,4-D | 0.5 lb ai/a | 1 pt/a | | 7 EPP B | | | | | |
| 9 | Valor SX | 0.064 lb ai/a | 2 oz/a | | 7 EPP B | | | | | |
| 9 | N-pak ams | 2.5 % v/v | 1.5 qt/a | | 7 EPP B | | | | | |
| 10 | Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 7 EPP B | | 5.0 bcd | 15.0 c | 1.0 d | 60.0 b-f |
| 10 | 2,4-D | 0.5 lb ai/a | 1 pt/a | | 7 EPP B | | | | | |
| 10 | Valor SX | 0.096 lb ai/a | 3 oz/a | | 7 EPP B | | | | | |

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Horticulture and Crop Science

| Pest Type | | | | | | | | W Weed | W Weed | W Weed | W Weed |
|-------------------------------|-----------|------|------------|------------|------|--------------|-----------|-----------------|-----------------|-----------------|----------------|
| Pest Code | | | | | | | | ERYRE | ERICA | ERICA | SETFA |
| Pest Scientific Name | | | | | | | | Erysimum repa> | Conyza canaden> | Conyza canaden> | Setaria faberi |
| Pest Name | | | | | | | | Bushy wallflow> | Canada horsewe> | Canada horsewe> | Giant foxtail |
| Rating Date | | | | | | | | Apr-30-2012 | Apr-30-2012 | May-3-2012 | May-29-2012 |
| Rating Type | | | | | | | | CONTRO | CONTRO | COUNT | CONTRO |
| Rating Unit | | | | | | | | % | % | M2 | % |
| Number of Subsamples | | | | | | | | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | | | | | | | | 28 5 | 28 5 | 31 1 | 57 27 |
| Plant-Eval Interval | | | | | | | | 0 DP-1 | 0 DP-1 | 3 DP-1 | 29 DP-1 |
| Trt Treatment | Rate | Unit | Other Rate | Other Rate | Unit | Growth Stage | Appl Code | 5 | 6 | 7 | 8 |
| 10 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 7 EPP | B | | | | |
| 11 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 7 EPP | B | 0.0 e | 5.0 c | 2.0 d | 46.7 efg |
| 11 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 7 EPP | B | | | | |
| 11 Sencor 75DF | 0.375 lb | ai/a | 8 oz/a | | | 7 EPP | B | | | | |
| 11 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 7 EPP | B | | | | |
| 12 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 7 EPP | B | 3.3 cde | 8.3 c | 3.7 d | 50.0 d-g |
| 12 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 7 EPP | B | | | | |
| 12 Sencor 75DF | 0.56 lb | ai/a | 12 oz/a | | | 7 EPP | B | | | | |
| 12 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 7 EPP | B | | | | |
| 13 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 7 EPP | B | 3.3 cde | 10.0 c | 4.7 cd | 56.7 c-f |
| 13 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 7 EPP | B | | | | |
| 13 Spartan | 0.078 lb | ai/a | 2.5 oz/a | | | 7 EPP | B | | | | |
| 13 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 7 EPP | B | | | | |
| 14 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 7 EPP | B | 5.0 bcd | 11.7 c | 42.0 a | 53.3 d-g |
| 14 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 7 EPP | B | | | | |
| 14 Spartan | 0.156 lb | ai/a | 5 oz/a | | | 7 EPP | B | | | | |
| 14 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 7 EPP | B | | | | |
| 15 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 30 EPP | A | 100.0 a | 66.7 ab | 2.3 d | 80.0 ab |
| 15 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 30 EPP | A | | | | |
| 15 Valor XLT @ 2oz | | | | | | | | | | | |
| 15 Valor SX | 0.0373 lb | ai/a | 1.17 oz/a | | | 30 EPP | A | | | | |
| 15 Classic | 0.013 lb | ai/a | 0.83 oz/a | | | 30 EPP | A | | | | |
| 15 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 30 EPP | A | | | | |
| 15 Liberty | 0.402 lb | ai/a | 22 oz/a | | | ATPL | C | | | | |
| 15 Valor XLT @ 2oz | | | | | | | | | | | |
| 15 Valor SX | 0.0373 lb | ai/a | 1.17 oz/a | | | ATPL | C | | | | |
| 15 Classic | 0.013 lb | ai/a | 0.83 oz/a | | | ATPL | C | | | | |
| 15 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | ATPL | C | | | | |
| 16 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 30 EPP | A | 100.0 a | 66.7 ab | 29.7 ab | 53.3 d-g |
| 16 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 30 EPP | A | | | | |
| 16 Valor SX | 0.032 lb | ai/a | 1 oz/a | | | 30 EPP | A | | | | |
| 16 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 30 EPP | A | | | | |
| 16 Liberty | 0.402 lb | ai/a | 22 oz/a | | | ATPL | C | | | | |
| 16 Valor SX | 0.048 lb | ai/a | 1.5 oz/a | | | ATPL | C | | | | |
| 16 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | ATPL | C | | | | |
| 17 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 30 EPP | A | 100.0 a | 86.7 a | 3.3 d | 50.0 d-g |
| 17 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 30 EPP | A | | | | |
| 17 Sencor 75DF | 0.188 lb | ai/a | 4 oz/a | | | 30 EPP | A | | | | |
| 17 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 30 EPP | A | | | | |
| 17 Liberty | 0.402 lb | ai/a | 22 oz/a | | | ATPL | C | | | | |
| 17 Sencor 75DF | 0.28 lb | ai/a | 6 oz/a | | | ATPL | C | | | | |
| 17 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | ATPL | C | | | | |
| 18 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 30 EPP | A | 99.3 a | 76.7 ab | 2.7 d | 33.3 gh |
| 18 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 30 EPP | A | | | | |
| 18 Spartan | 0.047 lb | ai/a | 1.5 oz/a | | | 30 EPP | A | | | | |
| 18 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 30 EPP | A | | | | |
| 18 Liberty | 0.402 lb | ai/a | 22 oz/a | | | ATPL | C | | | | |
| 18 Spartan | 0.0625 lb | ai/a | 2 oz/a | | | ATPL | C | | | | |
| 18 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | ATPL | C | | | | |
| 19 Liberty | 0.402 lb | ai/a | 22 oz/a | | | ATPL | D | 0.0 e | 1.7 c | 22.7 bc | 78.3 abc |
| 19 Sencor 75DF | 0.188 lb | ai/a | 4 oz/a | | | ATPL | D | | | | |
| 19 Valor XLT @ 4oz | | | | | | | D | | | | |
| 19 Valor SX | 0.075 lb | ai/a | 2.35 oz/a | | | ATPL | D | | | | |
| 19 Classic | 0.0258 lb | ai/a | 1.65 oz/a | | | ATPL | D | | | | |
| 19 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | ATPL | D | | | | |

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| Pest Type | W Weed | | W Weed | | W Weed | | W Weed | | | |
|-------------------------------|-----------------|------|-----------------|------------|-----------------|------------|----------------|-------|--------|----------|
| Pest Code | ERYRE | | ERICA | | ERICA | | SETFA | | | |
| Pest Scientific Name | Erysimum repan> | | Conyza canad> | | Conyza canad> | | Setaria faberi | | | |
| Pest Name | Bushy wallflow> | | Canada horsewe> | | Canada horsewe> | | Giant foxtail | | | |
| Rating Date | Apr-30-2012 | | Apr-30-2012 | | May-3-2012 | | May-29-2012 | | | |
| Rating Type | CONTRO | | CONTRO | | COUNT | | CONTRO | | | |
| Rating Unit | % | | % | | M2 | | % | | | |
| Number of Subsamples | 1 | | 1 | | 1 | | 1 | | | |
| Days After First/Last Applic. | 28 5 | | 28 5 | | 31 1 | | 57 27 | | | |
| Plant-Eval Interval | 0 DP-1 | | 0 DP-1 | | 3 DP-1 | | 29 DP-1 | | | |
| Trt Treatment | Rate | Unit | Other Rate | Other Rate | Growth Unit | Appl Stage | Code | | | |
| No. Name | | | | | | | 5 | 6 | 7 | 8 |
| 20 Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 7 EPP | B | 1.7 de | 5.0 c | 6.3 cd | 60.0 b-f |
| 20 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 7 EPP | B | | | | |
| 20 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 7 EPP | B | | | | |
| LSD (P=.05) | | | | | | | 3.63 | 20.81 | 18.39 | 22.47 |
| Standard Deviation | | | | | | | 2.20 | 12.61 | 11.14 | 13.62 |
| CV | | | | | | | 3.89 | 28.02 | 136.43 | 25.34 |

Ohio State University
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| Pest Type | W Weed | W Weed | W Weed | | |
|-------------------------------|-----------------|-------------------|-----------------|--------------|-------------|
| Pest Code | AMBTR | ERICA | SETFA | | |
| Pest Scientific Name | Ambrosia trifid | Conyza canadensis | Setaria faberii | | |
| Pest Name | Giant ragweed | Canada horseweed | Giant foxtail | | |
| Rating Date | May-29-2012 | May-29-2012 | May-29-2012 | Jun-19-2012 | Jun-19-2012 |
| Rating Type | CONTRO | CONTRO | COUNT | COUNT | CONTRO |
| Rating Unit | % | % | M2 | M2 | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 57 27 | 57 27 | 57 27 | 78 19 | 78 19 |
| Plant-Eval Interval | 29 DP-1 | 29 DP-1 | 29 DP-1 | 50 DP-1 | 50 DP-1 |
| Trt Treatment | Rate | Other Rate | Other Rate | Growth Stage | Appl Code |
| No. Name | Rate Unit | Rate Unit | Rate Unit | | |
| | | | | 9 | 10 |
| | | | | 11 | 12 |
| | | | | 13 | |
| 1 Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 30 EPP A | 70.0 a |
| 1 2,4-D | 0.5 lb ai/a | 1 pt/a | | 30 EPP A | 66.7 bcd |
| 1 Valor XLT @ 4.5 oz | | | | | 7.3 a |
| 1 Valor SX | 0.075 lb ai/a | 2.35 oz/a | | 30 EPP A | 5.3 a |
| 1 Classic | 0.0258 lb ai/a | 1.65 oz/a | | 30 EPP A | 68.3 a |
| 1 N-pak ams | 2.5 % v/v | 1.5 qt/a | | 30 EPP A | |
| 2 Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 30 EPP A | 50.0 a |
| 2 2,4-D | 0.5 lb ai/a | 1 pt/a | | 30 EPP A | 13.3 h |
| 2 Valor SX | 0.064 lb ai/a | 2 oz/a | | 30 EPP A | 28.7 a |
| 2 N-pak ams | 2.5 % v/v | 1.5 qt/a | | 30 EPP A | 54.7 a |
| 3 Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 30 EPP A | 100.0 a |
| 3 2,4-D | 0.5 lb ai/a | 1 pt/a | | 30 EPP A | |
| 3 Valor SX | 0.096 lb ai/a | 3 oz/a | | 30 EPP A | 16.7 gh |
| 3 N-pak ams | 2.5 % v/v | 1.5 qt/a | | 30 EPP A | 38.7 a |
| 4 Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 30 EPP A | 101.3 a |
| 4 2,4-D | 0.5 lb ai/a | 1 pt/a | | 30 EPP A | 93.3 a |
| 4 Sencor 75DF | 0.375 lb ai/a | 8 oz/a | | 30 EPP A | |
| 4 N-pak ams | 2.5 % v/v | 1.5 qt/a | | 30 EPP A | 58.3 a |
| 5 Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 30 EPP A | 90.0 a |
| 5 2,4-D | 0.5 lb ai/a | 1 pt/a | | 30 EPP A | 91.7 ab |
| 5 Sencor 75DF | 0.56 lb ai/a | 12 oz/a | | 30 EPP A | 1.3 a |
| 5 N-pak ams | 2.5 % v/v | 1.5 qt/a | | 30 EPP A | 8.0 a |
| 6 Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 30 EPP A | 90.0 a |
| 6 2,4-D | 0.5 lb ai/a | 1 pt/a | | 30 EPP A | 51.7 a |
| 6 Spartan | 0.078 lb ai/a | 2.5 oz/a | | 30 EPP A | 16.7 gh |
| 6 N-pak ams | 2.5 % v/v | 1.5 qt/a | | 30 EPP A | 29.3 a |
| 7 Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 30 EPP A | 61.3 a |
| 7 2,4-D | 0.5 lb ai/a | 1 pt/a | | 30 EPP A | 100.0 a |
| 7 Spartan | 0.156 lb ai/a | 5 oz/a | | 30 EPP A | |
| 7 N-pak ams | 2.5 % v/v | 1.5 qt/a | | 30 EPP A | 68.3 a |
| 8 Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 7 EPP B | 23.3 fgh |
| 8 2,4-D | 0.5 lb ai/a | 1 pt/a | | 7 EPP B | 42.7 a |
| 8 Valor XLT @ 4.5 oz | | | | | 42.7 a |
| 8 Valor SX | 0.075 lb ai/a | 2.35 oz/a | | 7 EPP B | 100.0 a |
| 8 Classic | 0.0258 lb ai/a | 1.65 oz/a | | 7 EPP B | |
| 8 N-pak ams | 2.5 % v/v | 1.5 qt/a | | 7 EPP B | 80.0 a |
| 9 Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 7 EPP B | 51.7 c-f |
| 9 2,4-D | 0.5 lb ai/a | 1 pt/a | | 7 EPP B | 7.3 a |
| 9 Valor SX | 0.064 lb ai/a | 2 oz/a | | 7 EPP B | 12.0 a |
| 9 N-pak ams | 2.5 % v/v | 1.5 qt/a | | 7 EPP B | 86.0 a |
| 10 Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 7 EPP B | 38.7 a |
| 10 2,4-D | 0.5 lb ai/a | 1 pt/a | | 7 EPP B | 32.7 a |
| 10 Valor SX | 0.096 lb ai/a | 3 oz/a | | 7 EPP B | 88.0 a |
| 10 N-pak ams | 2.5 % v/v | 1.5 qt/a | | 7 EPP B | |
| 10 Roundup Power Max | 0.77 lb ae/a | 22 oz/a | | 7 EPP B | 53.3 a |
| 10 2,4-D | 0.5 lb ai/a | 1 pt/a | | 7 EPP B | 20.0 gh |
| 10 Valor SX | 0.096 lb ai/a | 3 oz/a | | 7 EPP B | 36.7 a |
| 10 N-pak ams | 2.5 % v/v | 1.5 qt/a | | 7 EPP B | 50.7 a |
| | | | | | 88.3 a |

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| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed | | | | | | |
|-------------------------------|-----------------|-------------------|-----------------|-----------------|-----------------|-----------|--------|----------|--------|--------|--------|
| Pest Code | AMBTR | ERICA | SETFA | SETFA | SETFA | | | | | | |
| Pest Scientific Name | Ambrosia trifid | Conyza canadensis | Setaria faberii | Setaria faberii | Setaria faberii | | | | | | |
| Pest Name | Giant ragweed | Canada horseweed | Giant foxtail | Giant foxtail | Giant foxtail | | | | | | |
| Rating Date | May-29-2012 | May-29-2012 | May-29-2012 | Jun-19-2012 | Jun-19-2012 | | | | | | |
| Rating Type | CONTRO | CONTRO | COUNT | COUNT | CONTRO | | | | | | |
| Rating Unit | % | % | M2 | M2 | % | | | | | | |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 | | | | | | |
| Days After First/Last Applic. | 57 27 | 57 27 | 57 27 | 78 19 | 78 19 | | | | | | |
| Plant-Eval Interval | 29 DP-1 | 29 DP-1 | 29 DP-1 | 50 DP-1 | 50 DP-1 | | | | | | |
| Trt Treatment | Rate | Rate | Other Rate | Other Rate | Growth Stage | Appl Code | 9 | 10 | 11 | 12 | 13 |
| 10 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 7 EPP B | | | | | | |
| 11 Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 7 EPP B | | 63.3 a | 80.0 abc | 1.3 a | 22.7 a | 76.7 a |
| 11 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 7 EPP B | | | | | | |
| 11 Sencor 75DF | 0.375 lb ai/a | | 8 oz/a | | 7 EPP B | | | | | | |
| 11 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 7 EPP B | | | | | | |
| 12 Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 7 EPP B | | 63.3 a | 100.0 a | 0.3 a | 5.3 a | 80.0 a |
| 12 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 7 EPP B | | | | | | |
| 12 Sencor 75DF | 0.56 lb ai/a | | 12 oz/a | | 7 EPP B | | | | | | |
| 12 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 7 EPP B | | | | | | |
| 13 Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 7 EPP B | | 43.3 a | 10.0 h | 44.0 a | 69.3 a | 98.3 a |
| 13 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 7 EPP B | | | | | | |
| 13 Spartan | 0.078 lb ai/a | | 2.5 oz/a | | 7 EPP B | | | | | | |
| 13 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 7 EPP B | | | | | | |
| 14 Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 7 EPP B | | 56.7 a | 23.3 fgh | 18.0 a | 37.3 a | 73.3 a |
| 14 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 7 EPP B | | | | | | |
| 14 Spartan | 0.156 lb ai/a | | 5 oz/a | | 7 EPP B | | | | | | |
| 14 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 7 EPP B | | | | | | |
| 15 Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 71.7 a | 65.0 bcd | 4.3 a | 12.0 a | 98.3 a |
| 15 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | | | | |
| 15 Valor XLT @ 2oz | | | | | | | | | | | |
| 15 Valor SX | 0.0373 lb ai/a | | 1.17 oz/a | | 30 EPP A | | | | | | |
| 15 Classic | 0.013 lb ai/a | | 0.83 oz/a | | 30 EPP A | | | | | | |
| 15 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | | | | |
| 15 Liberty | 0.402 lb ai/a | | 22 oz/a | | ATPL C | | | | | | |
| 15 Valor XLT @ 2oz | | | | | | | | | | | |
| 15 Valor SX | 0.0373 lb ai/a | | 1.17 oz/a | | ATPL C | | | | | | |
| 15 Classic | 0.013 lb ai/a | | 0.83 oz/a | | ATPL C | | | | | | |
| 15 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | ATPL C | | | | | | |
| 16 Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 63.3 a | 46.7 d-g | 9.3 a | 25.3 a | 91.7 a |
| 16 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | | | | |
| 16 Valor SX | 0.032 lb ai/a | | 1 oz/a | | 30 EPP A | | | | | | |
| 16 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | | | | |
| 16 Liberty | 0.402 lb ai/a | | 22 oz/a | | ATPL C | | | | | | |
| 16 Valor SX | 0.048 lb ai/a | | 1.5 oz/a | | ATPL C | | | | | | |
| 16 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | ATPL C | | | | | | |
| 17 Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 56.7 a | 100.0 a | 0.0 a | 0.0 a | 96.0 a |
| 17 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | | | | |
| 17 Sencor 75DF | 0.188 lb ai/a | | 4 oz/a | | 30 EPP A | | | | | | |
| 17 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | | | | |
| 17 Liberty | 0.402 lb ai/a | | 22 oz/a | | ATPL C | | | | | | |
| 17 Sencor 75DF | 0.28 lb ai/a | | 6 oz/a | | ATPL C | | | | | | |
| 17 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | ATPL C | | | | | | |
| 18 Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 53.3 a | 63.3 b-e | 10.0 a | 22.7 a | 75.0 a |
| 18 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | | | | |
| 18 Spartan | 0.047 lb ai/a | | 1.5 oz/a | | 30 EPP A | | | | | | |
| 18 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | | | | |
| 18 Liberty | 0.402 lb ai/a | | 22 oz/a | | ATPL C | | | | | | |
| 18 Spartan | 0.0625 lb ai/a | | 2 oz/a | | ATPL C | | | | | | |
| 18 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | ATPL C | | | | | | |
| 19 Liberty | 0.402 lb ai/a | | 22 oz/a | | ATPL D | | 86.7 a | 58.3 cde | 10.7 a | 28.0 a | 95.0 a |
| 19 Sencor 75DF | 0.188 lb ai/a | | 4 oz/a | | ATPL D | | | | | | |
| 19 Valor XLT @ 4oz | | | | | D | | | | | | |
| 19 Valor SX | 0.075 lb ai/a | | 2.35 oz/a | | ATPL D | | | | | | |
| 19 Classic | 0.0258 lb ai/a | | 1.65 oz/a | | ATPL D | | | | | | |
| 19 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | ATPL D | | | | | | |

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Horticulture and Crop Science

| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed |
|-------------------------------|-----------------|-----------------|----------------|-------------|-------------|
| Pest Code | AMBTR | ERICA | SETFA | | |
| Pest Scientific Name | Ambrosia trifi> | Conyza canaden> | Setaria faberi | | |
| Pest Name | Giant ragweed | Canada horsewe> | Giant foxtail | | |
| Rating Date | May-29-2012 | May-29-2012 | May-29-2012 | Jun-19-2012 | Jun-19-2012 |
| Rating Type | CONTRO | CONTRO | COUNT | COUNT | CONTRO |
| Rating Unit | % | % | M2 | M2 | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 57 27 | 57 27 | 57 27 | 78 19 | 78 19 |
| Plant-Eval Interval | 29 DP-1 | 29 DP-1 | 29 DP-1 | 50 DP-1 | 50 DP-1 |
| Trt Treatment | Rate | Rate | Other | Other | Growth |
| No. Name | Unit | Unit | Rate | Rate | Unit Stage |
| | | | | | Code |
| | | | | | 9 |
| | | | | | 10 |
| | | | | | 11 |
| | | | | | 12 |
| | | | | | 13 |
| 20 Roundup Power Max | 0.77 lb ae/a | 22 oz/a | 7 EPP | B | 75.0 a |
| 20 2,4-D | 0.5 lb ai/a | 1 pt/a | 7 EPP | B | 36.7 d-h |
| 20 N-pak ams | 2.5 % v/v | 1.5 qt/a | 7 EPP | B | 25.0 a |
| LSD (P=.05) | | | | | 101.29 |
| Standard Deviation | | | | | 29.85 |
| CV | | | | | 18.09 |
| | | | | | 20.18 |

Ohio State University
Horticulture and Crop Science

| | | |
|-------------------------------|------------------|-------------------|
| Pest Type | W Weed | W Weed |
| Pest Code | AMBTR | ERICA |
| Pest Scientific Name | Ambrosia trifida | Conyza canadensis |
| Pest Name | Giant ragweed | Canada horseweed |
| Rating Date | Jun-19-2012 | Jun-19-2012 |
| Rating Type | CONTRO | CONTRO |
| Rating Unit | % | % |
| Number of Subsamples | 1 | 1 |
| Days After First/Last Applic. | 78 19 | 78 19 |
| Plant-Eval Interval | 50 DP-1 | 50 DP-1 |

| Trt No. | Treatment Name | Rate | Unit | Other Rate | Other Unit | Growth Stage | Appl Code | 14 | 15 |
|---------|----------------------|----------------|------|------------|------------|--------------|-----------|---------|----------|
| 1 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 100.0 a | 66.7 a-d |
| | 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | |
| | 1 Valor XLT @ 4.5 oz | | | | | | | | |
| | 1 Valor SX | 0.075 lb ai/a | | 2.35 oz/a | | 30 EPP A | | | |
| | 1 Classic | 0.0258 lb ai/a | | 1.65 oz/a | | 30 EPP A | | | |
| | 1 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | |
| 2 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 100.0 a | 33.3 e |
| | 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | |
| | 2 Valor SX | 0.064 lb ai/a | | 2 oz/a | | 30 EPP A | | | |
| | 2 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | |
| 3 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 98.3 a | 36.7 e |
| | 3,2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | |
| | 3 Valor SX | 0.096 lb ai/a | | 3 oz/a | | 30 EPP A | | | |
| | 3 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | |
| 4 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 100.0 a | 71.7 a-d |
| | 4,2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | |
| | 4 Sencor 75DF | 0.375 lb ai/a | | 8 oz/a | | 30 EPP A | | | |
| | 4 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | |
| 5 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 100.0 a | 83.3 ab |
| | 5,2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | |
| | 5 Sencor 75DF | 0.56 lb ai/a | | 12 oz/a | | 30 EPP A | | | |
| | 5 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | |
| 6 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 100.0 a | 53.3 cde |
| | 6,2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | |
| | 6 Spartan | 0.078 lb ai/a | | 2.5 oz/a | | 30 EPP A | | | |
| | 6 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | |
| 7 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 30 EPP A | | 100.0 a | 45.0 de |
| | 7,2,4-D | 0.5 lb ai/a | | 1 pt/a | | 30 EPP A | | | |
| | 7 Spartan | 0.156 lb ai/a | | 5 oz/a | | 30 EPP A | | | |
| | 7 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 30 EPP A | | | |
| 8 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 7 EPP B | | 100.0 a | 71.7 a-d |
| | 8,2,4-D | 0.5 lb ai/a | | 1 pt/a | | 7 EPP B | | | |
| | 8 Valor XLT @ 4.5 oz | | | | | | | | |
| | 8 Valor SX | 0.075 lb ai/a | | 2.35 oz/a | | 7 EPP B | | | |
| | 8 Classic | 0.0258 lb ai/a | | 1.65 oz/a | | 7 EPP B | | | |
| | 8 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 7 EPP B | | | |
| 9 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 7 EPP B | | 96.7 a | 51.7 cde |
| | 9,2,4-D | 0.5 lb ai/a | | 1 pt/a | | 7 EPP B | | | |
| | 9 Valor SX | 0.064 lb ai/a | | 2 oz/a | | 7 EPP B | | | |
| | 9 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 7 EPP B | | | |
| 10 | Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 7 EPP B | | 100.0 a | 46.7 cde |
| | 10,2,4-D | 0.5 lb ai/a | | 1 pt/a | | 7 EPP B | | | |
| | 10 Valor SX | 0.096 lb ai/a | | 3 oz/a | | 7 EPP B | | | |

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| Pest Type | | | | | | W Weed | W Weed |
|-------------------------------|-----------|------|------------|------------|------|-----------------|------------------|
| Pest Code | | | | | | AMBTR | ERICA |
| Pest Scientific Name | | | | | | Ambrosia trifi> | Conyza canad> |
| Pest Name | | | | | | Giant ragweed | Canada horsewe> |
| Rating Date | | | | | | Jun-19-2012 | Jun-19-2012 |
| Rating Type | | | | | | CONTRO | CONTRO |
| Rating Unit | | | | | | % | % |
| Number of Subsamples | | | | | | 1 | 1 |
| Days After First/Last Applic. | | | | | | 78 19 | 78 19 |
| Plant-Eval Interval | | | | | | 50 DP-1 | 50 DP-1 |
| Trt Treatment | Rate | Unit | Other Rate | Other Rate | Unit | Growth Stage | Appl Code |
| No. Name | | | | | | | |
| 10 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 7 EPP B | 14 15 |
| 11 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 7 EPP B | 100.0 a 75.0 abc |
| 11 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 7 EPP B | |
| 11 Sencor 75DF | 0.375 lb | ai/a | 8 oz/a | | | 7 EPP B | |
| 11 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 7 EPP B | |
| 12 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 7 EPP B | 70.0 a 88.3 a |
| 12 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 7 EPP B | |
| 12 Sencor 75DF | 0.56 lb | ai/a | 12 oz/a | | | 7 EPP B | |
| 12 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 7 EPP B | |
| 13 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 7 EPP B | 100.0 a 53.3 cde |
| 13 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 7 EPP B | |
| 13 Spartan | 0.078 lb | ai/a | 2.5 oz/a | | | 7 EPP B | |
| 13 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 7 EPP B | |
| 14 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 7 EPP B | 83.3 a 30.0 e |
| 14 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 7 EPP B | |
| 14 Spartan | 0.156 lb | ai/a | 5 oz/a | | | 7 EPP B | |
| 14 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 7 EPP B | |
| 15 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 30 EPP A | 100.0 a 71.7 a-d |
| 15 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 30 EPP A | |
| 15 Valor XLT @ 2oz | | | | | | | |
| 15 Valor SX | 0.0373 lb | ai/a | 1.17 oz/a | | | 30 EPP A | |
| 15 Classic | 0.013 lb | ai/a | 0.83 oz/a | | | 30 EPP A | |
| 15 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 30 EPP A | |
| 15 Liberty | 0.402 lb | ai/a | 22 oz/a | | | ATPL C | |
| 15 Valor XLT @ 2oz | | | | | | | |
| 15 Valor SX | 0.0373 lb | ai/a | 1.17 oz/a | | | ATPL C | |
| 15 Classic | 0.013 lb | ai/a | 0.83 oz/a | | | ATPL C | |
| 15 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | ATPL C | |
| 16 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 30 EPP A | 100.0 a 56.7 b-e |
| 16 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 30 EPP A | |
| 16 Valor SX | 0.032 lb | ai/a | 1 oz/a | | | 30 EPP A | |
| 16 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 30 EPP A | |
| 16 Liberty | 0.402 lb | ai/a | 22 oz/a | | | ATPL C | |
| 16 Valor SX | 0.048 lb | ai/a | 1.5 oz/a | | | ATPL C | |
| 16 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | ATPL C | |
| 17 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 30 EPP A | 100.0 a 94.3 a |
| 17 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 30 EPP A | |
| 17 Sencor 75DF | 0.188 lb | ai/a | 4 oz/a | | | 30 EPP A | |
| 17 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 30 EPP A | |
| 17 Liberty | 0.402 lb | ai/a | 22 oz/a | | | ATPL C | |
| 17 Sencor 75DF | 0.28 lb | ai/a | 6 oz/a | | | ATPL C | |
| 17 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | ATPL C | |
| 18 Roundup Power Max | 0.77 lb | ae/a | 22 oz/a | | | 30 EPP A | 100.0 a 66.7 a-d |
| 18 2,4-D | 0.5 lb | ai/a | 1 pt/a | | | 30 EPP A | |
| 18 Spartan | 0.047 lb | ai/a | 1.5 oz/a | | | 30 EPP A | |
| 18 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | 30 EPP A | |
| 18 Liberty | 0.402 lb | ai/a | 22 oz/a | | | ATPL C | |
| 18 Spartan | 0.0625 lb | ai/a | 2 oz/a | | | ATPL C | |
| 18 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | ATPL C | |
| 19 Liberty | 0.402 lb | ai/a | 22 oz/a | | | ATPL D | 100.0 a 70.0 a-d |
| 19 Sencor 75DF | 0.188 lb | ai/a | 4 oz/a | | | ATPL D | |
| 19 Valor XLT @ 4oz | | | | | | D | |
| 19 Valor SX | 0.075 lb | ai/a | 2.35 oz/a | | | ATPL D | |
| 19 Classic | 0.0258 lb | ai/a | 1.65 oz/a | | | ATPL D | |
| 19 N-pak ams | 2.5 % | v/v | 1.5 qt/a | | | ATPL D | |

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| Trt No. | Treatment Name | Rate | Unit | Other Rate | Other Rate | Growth Unit | Appl Stage | Code | 14 | 15 |
|---------|----------------------|--------------|------|------------|------------|-------------|------------|------|---------|----------|
| | 20 Roundup Power Max | 0.77 lb ae/a | | 22 oz/a | | 7 EPP | B | | 100.0 a | 66.7 a-d |
| | 20 2,4-D | 0.5 lb ai/a | | 1 pt/a | | 7 EPP | B | | | |
| | 20 N-pak ams | 2.5 % v/v | | 1.5 qt/a | | 7 EPP | B | | | |
| | LSD (P=.05) | | | | | | | | 22.34 | 29.38 |
| | Standard Deviation | | | | | | | | 13.54 | 17.80 |
| | CV | | | | | | | | 13.9 | 28.89 |