

Ohio State University Horticulture and Crop Science

KIXOR PRE PLANT BURNDOWN

Title No. 2:
 Trial ID: 10NTS3 Protocol ID: 10NTS3
 Location: Western Branch Study Director: Bryan Reeb
 Project ID: 10NTS3 Investigator: Dr. Mark M. Loux
 Sponsor Contact:

General Trial Information

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Trial Location

Latitude of LL Corner °: 39.8581 N
Longitude of LL Corner °: 83.67583 W
Altitude of LL Corner, Unit: 1093.00 FT

Personnel

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Crop Description

| | |
|---|--|
| <p>Crop 1: GLXMA Glycine max Soybean Variety: SC 9349 RR BBCH Scale: BSOY Planting Method: SEEDED seeded Depth, Unit: 0.75 IN Row Spacing, Unit: 15 IN Seed Bed: NO-TIL Soil Moisture: GOOD good Harvest Date: Sep-22-2010 Harvested Width, Unit: 6.25 FT % Standard Moisture: 13.0 Weighing Equipment: HARVEST MASTER 401</p> | <p>Description: RR Planting Date: Apr-29-2010 Rate, Unit: 196000 S/A Emergence Date: May-7-2010 Harvest Equipment: MASSEY 8 XP Harvested Length, Unit: 30 FT Moisture Meter: HARVEST MASTER</p> |
|---|--|

Pest Description

Pest 1 Type: W **Code:** ERICA Conyza canadensis
Common Name: horseweed

Pest 2 Type: W **Code:** LAMPU Lamium purpureum
Common Name: Purple deadnettel

Pest 3 Type: W **Code:** VERPG Veronica peregrina
Common Name: Purslane speedwell

Pest 4 Type: W **Code:** TAROF Taraxacum officinale
Common Name: Common dandelion

Pest 5 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 6 Type: W **Code:** STEME Stellaria media
Common Name: Common chickweed

Pest 7 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 8 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 9 Type: W **Code:** AMARE Amaranthus retroflexus
Common Name: Redroot pigweed

Pest10 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: Velvetleaf

Pest11 Type: W **Code:** POLPY Polygonum pensylvanicum
Common Name: Pennsylvania smartweed

Site and Design

Plot Width, Unit: 6.67 FT
Plot Length, Unit: 30 FT
Plot Area, Unit: 200.1 FT²
Replications: 3 **Study Design:** RACOB L Randomized Complete Block (RCB)

Soil Description

Description Name: G-7

% OM: 2 Texture: SIL silt loam
pH: 6.2 Soil Name: Crosby Silt Loam
CEC: 14 Fert. Level: G good
Soil Drainage: G good

Application Description

| | A | B |
|-------------------------|-------------|------------|
| Application Date: | Apr-21-2010 | Jun-8-2010 |
| Time of Day: | 9:00 AM | 9:40 AM |
| Application Method: | SPRAY | SPRAY |
| Application Timing: | 7 EPP | MPO |
| Application Placement: | BROFOL | BROFOL |
| Air Temperature, Unit: | 53 F | 60 F |
| % Relative Humidity: | 49 | 65 |
| Wind Velocity, Unit: | 3 MPH | 5 MPH |
| Wind Direction: | WSW | ESE |
| Dew Presence (Y/N): | N no | N no |
| Soil Temperature, Unit: | 50 F | 62 F |
| Soil Moisture: | DRY | GOOD |
| % Cloud Cover: | 2 | 10 |
| Next Rain Occurred On: | Apr-24-2010 | Jun-8-2010 |

Crop Stage At Each Application

| | A | B |
|--------------------------|------------|------------|
| Crop 1 Code, BBCH Scale: | GLXMA BSOY | GLXMA BSOY |
| Stage Scale Used: | | BBCH |
| Stage Majority, Percent: | | 13 100 |
| Height, Unit: | | 10 IN |
| Height Minimum, Maximum: | | 8 10 |

Pest Stage At Each Application

| | A | B |
|----------------------------------|----------|----------|
| Pest 1 Code, Type, Scale: | ERICA W | ERICA W |
| Stage Majority, Percent: | 19 100 | 19 100 |
| Diameter, Unit: | 3 IN | |
| Height, Unit: | 3 IN | 12 IN |
| Height Minimum, Maximum: | 2 3 | 8 12 |
| Density, Unit: | 12 M2 | 12 M2 |
| Pest 2 Code, Type, Scale: | LAMPU W | LAMPU W |
| Stage Majority, Percent: | 65 100 | |
| Diameter, Unit: | 5 IN | |
| Height, Unit: | 6 IN | |
| Height Minimum, Maximum: | 5 6 | |
| Density, Unit: | 3 M2 | |
| Pest 3 Code, Type, Scale: | VERPG W | VERPG W |
| Stage Majority, Percent: | 65 100 | |
| Diameter, Unit: | 3 IN | |
| Height, Unit: | 4 IN | |
| Height Minimum, Maximum: | 4 5 | |
| Density, Unit: | 1 M2 | |
| Pest 4 Code, Type, Scale: | TAROF W | TAROF W |
| Stage Majority, Percent: | 65 100 | |
| Diameter, Unit: | 12 IN | |
| Height, Unit: | 3 IN | |
| Height Minimum, Maximum: | 2 3 | |
| Density, Unit: | 0.33 M2 | |
| Pest 5 Code, Type, Scale: | AMBTR W | AMBTR W |
| Stage Majority, Percent: | 12 100 | 18 100 |
| Height, Unit: | 1 IN | 20 IN |
| Height Minimum, Maximum: | 0.5 1 | 16 20 |
| Density, Unit: | 4 M2 | 4 M2 |
| Pest 6 Code, Type, Scale: | STEME W | STEME W |
| Stage Majority, Percent: | 19 100 | |
| Diameter, Unit: | 12 IN | |
| Density, Unit: | 1 M2 | |
| Pest 7 Code, Type, Scale: | SETFA W | SETFA W |
| Stage Majority, Percent: | | 16 100 |
| Height, Unit: | | 12 IN |
| Height Minimum, Maximum: | | 10 12 |
| Density, Unit: | | 232 M2 |
| Pest 8 Code, Type, Scale: | CHEAL W | CHEAL W |
| Stage Majority, Percent: | | 19 100 |
| Height, Unit: | | 8 IN |
| Height Minimum, Maximum: | | 6 8 |
| Density, Unit: | | 3 M2 |
| Pest 9 Code, Type, Scale: | AMARE W | AMARE W |
| Stage Majority, Percent: | | 14 100 |
| Height, Unit: | | 6 IN |
| Height Minimum, Maximum: | | 5 6 |
| Density, Unit: | | 0.25 M2 |
| Pest10 Code, Type, Scale: | ABUTH W | ABUTH W |
| Stage Majority, Percent: | | 14 100 |
| Height, Unit: | | 8 IN |
| Height Minimum, Maximum: | | 6 8 |
| Density, Unit: | | 0.02 M2 |
| Pest11 Code, Type, Scale: | POLPY W | POLPY W |
| Stage Majority, Percent: | | 18 100 |
| Diameter, Unit: | | 6 IN |
| Height, Unit: | | 4 IN |
| Height Minimum, Maximum: | | 4 6 |
| Density, Unit: | | 0.1 M2 |

Application Equipment

| | A | B |
|----------------------------------|--------------|-----------|
| Appl. Equipment: | Backpack | Backpack |
| Equipment Type: | SPRBAC | SPRBAC |
| Operating Pressure, Unit: | 52 PSI | 52 PSI |
| Nozzle Type: | DG | DG |
| Nozzle Size: | 8002 | 11002 |
| Nozzle Spacing, Unit: | 18 IN | 18 IN |
| Boom Length, Unit: | 6.67 FT | 10 FT |
| Boom Height, Unit: | 18 IN | 18 IN |
| Ground Speed, Unit: | 3 MPH | 3 MPH |
| Carrier: | WATER | WATER |
| Spray Volume, Unit: | 20 gal/ac | 20 gal/ac |
| Mix Size, Unit: | 0.33 gallons | 3 gallons |
| Propellant: | COMCO2 | COMCO2 |

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|-------------------------------|-----------------|-----------------|------------------|------------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed |
| Pest Code | LAMPU | STEME | VERPG | ERICA |
| Pest Scientific Name | Lamium purpure> | Stellaria media | Veronica peregr> | Conyza canadens> |
| Pest Name | Purple deadnet> | Common chickwe> | Purslane speed> | Canada horsewe> |
| Crop Code | | | | |
| BBCH Scale | | | | |
| Crop Scientific Name | | | | |
| Crop Name | | | | |
| Rating Date | Apr-28-2010 | Apr-28-2010 | Apr-28-2010 | Apr-28-2010 |
| Rating Type | CONTROL | CONTROL | CONTROL | CONTROL |
| Rating Unit | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 7 7 | 7 7 | 7 7 | 7 7 |
| Trt-Eval Interval | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A |
| Plant-Eval Interval | -1 DP-1 | -1 DP-1 | -1 DP-1 | -1 DP-1 |
| Days After Emergence | -9 DE- | -9 DE- | -9 DE- | -9 DE- |
| ARM Action Codes | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Form Conc | Form Unit | Other Rate | Other Unit | Appl Code | 1 | 2 | 3 | 4 |
|---------|-------------------|--------------|-----------|------------|------------|-----------|----|----|----|-----|
| 1 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 23 | 23 | 23 | 23 |
| 1 | Nis | 100 % | | 0.2 qt/a | | A | | | | |
| 1 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 1 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 1 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 1 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 2 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 33 | 43 | 37 | 40 |
| 2 | 2,4-D Ester | 4 LBA/GAL | | 16 oz/a | | A | | | | |
| 2 | Nis | 100 % | | 0.2 qt/a | | A | | | | |
| 2 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 2 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 2 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 2 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 3 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 27 | 49 | 40 | 100 |
| 3 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | |
| 3 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 3 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 3 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 3 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 3 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 4 | OpTill | 68 %AW/W | | 2 oz/a | | A | 40 | 48 | 43 | 97 |
| 4 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | |
| 4 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 4 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 4 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 4 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 4 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 5 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 27 | 57 | 40 | 98 |
| 5 | Scepter | 70 %AW/W | | 2.8 oz/a | | A | | | | |
| 5 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | |
| 5 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 5 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 5 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 5 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 5 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 6 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 37 | 60 | 47 | 98 |
| 6 | Extreme | 2.17 LB/GAL | | 3 pt/a | | A | | | | |
| 6 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 6 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 6 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 6 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 6 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |

| | | | | |
|-------------------------------|-----------------|-----------------|------------------|------------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed |
| Pest Code | LAMPU | STEME | VERPG | ERICA |
| Pest Scientific Name | Lamium purpure> | Stellaria media | Veronica peregr> | Conyza canadens> |
| Pest Name | Purple deadnet> | Common chickwe> | Purslane speed> | Canada horsewe> |
| Crop Code | | | | |
| BBCH Scale | | | | |
| Crop Scientific Name | | | | |
| Crop Name | | | | |
| Rating Date | Apr-28-2010 | Apr-28-2010 | Apr-28-2010 | Apr-28-2010 |
| Rating Type | CONTROL | CONTROL | CONTROL | CONTROL |
| Rating Unit | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 7 7 | 7 7 | 7 7 | 7 7 |
| Trt-Eval Interval | 7 DA-A | 7 DA-A | 7 DA-A | 7 DA-A |
| Plant-Eval Interval | -1 DP-1 | -1 DP-1 | -1 DP-1 | -1 DP-1 |
| Days After Emergence | -9 DE- | -9 DE- | -9 DE- | -9 DE- |
| ARM Action Codes | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Form Conc | Form Unit | Other Rate | Other Rate | Appl Unit Code | 1 | 2 | 3 | 4 |
|---------|--------------------|---------------|-----------|------------|------------|----------------|-------|-------|--------|--------|
| 7 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 30 | 34 | 40 | 100 |
| 7 | Prowl H2O | 3.8 LBA/GAL | | 2.6 pt/a | | A | | | | |
| 7 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | |
| 7 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 7 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 7 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 7 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 7 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 8 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | 33 | 20 | 27 | 40 |
| 8 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | A | | | | |
| 8 | N-pak ams | 100 % | | 2 qt/a | | A | | | | |
| 8 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 8 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 9 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | 41 | 66 | 64 | 99 |
| 9 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | |
| 9 | N-pak ams | 100 % | | 2 qt/a | | A | | | | |
| 9 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 9 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 10 | Boundary | 6.5 LBA/GAL | | 1.5 pt/a | | A | 27 | 39 | 43 | 100 |
| 10 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | |
| 10 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | A | | | | |
| 10 | N-pak ams | 100 % | | 2 qt/a | | A | | | | |
| 10 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 10 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 11 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 75 | 99 | 87 | 87 |
| 11 | 2,4-D | 4 LBA/GAL | | 1 pt/a | | A | | | | |
| 11 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 11 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 11 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 12 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 80 | 100 | 100 | 99 |
| 12 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | |
| 12 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 12 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 12 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 13 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 86 | 100 | 94 | 95 |
| 13 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | | | | |
| 13 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 13 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 13 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 14 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 87 | 100 | 98 | 99 |
| 14 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | |
| 14 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | | | | |
| 14 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 14 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 14 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| | LSD (P=.05) | | | | | | 12.9 | 22.7 | 15.7 | 9.1 |
| | Standard Deviation | | | | | | 7.7 | 13.3 | 9.3 | 5.4 |
| | CV | | | | | | 16.59 | 22.18 | 16.64 | 6.43 |
| | Bartlett's X2 | | | | | | 5.02 | 8.475 | 10.165 | 17.973 |
| | P(Bartlett's X2) | | | | | | 0.93 | 0.388 | 0.516 | 0.035* |

| | | | | |
|-------------------------------|-----------------|-----------------|------------------|------------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed |
| Pest Code | LAMPU | STEME | VERPG | ERICA |
| Pest Scientific Name | Lamium purpure> | Stellaria media | Veronica peregr> | Conyza canadens> |
| Pest Name | Purple deadnet> | Common chickwe> | Purslane speed> | Canada horsewe> |
| Crop Code | | | | |
| BBCH Scale | | | | |
| Crop Scientific Name | | | | |
| Crop Name | | | | |
| Rating Date | May-12-2010 | May-12-2010 | May-12-2010 | May-12-2010 |
| Rating Type | CONTROL | CONTROL | CONTROL | CONTROL |
| Rating Unit | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 21 21 | 21 21 | 21 21 | 21 21 |
| Trt-Eval Interval | 21 DA-A | 21 DA-A | 21 DA-A | 21 DA-A |
| Plant-Eval Interval | 13 DP-1 | 13 DP-1 | 13 DP-1 | 13 DP-1 |
| Days After Emergence | 5 DE-1 | 5 DE-1 | 5 DE-1 | 5 DE-1 |
| ARM Action Codes | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Form Conc | Form Unit | Other Rate | Other Rate Unit | Appl Code | 5 | 6 | 7 | 8 |
|---------|-------------------|--------------|-----------|------------|-----------------|-----------|-----|-----|-----|----|
| 1 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 100 | 100 | 100 | 40 |
| 1 | Nis | 100 % | | 0.2 qt/a | | A | | | | |
| 1 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 1 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 1 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 1 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 2 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 98 | 100 | 100 | 82 |
| 2 | 2,4-D Ester | 4 LBA/GAL | | 16 oz/a | | A | | | | |
| 2 | Nis | 100 % | | 0.2 qt/a | | A | | | | |
| 2 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 2 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 2 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 2 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 3 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 100 | 100 | 100 | 78 |
| 3 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | |
| 3 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 3 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 3 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 3 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 3 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 4 | OpTill | 68 %AW/W | | 2 oz/a | | A | 96 | 100 | 100 | 97 |
| 4 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | |
| 4 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 4 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 4 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 4 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 4 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 5 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 95 | 100 | 100 | 95 |
| 5 | Scepter | 70 %AW/W | | 2.8 oz/a | | A | | | | |
| 5 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | |
| 5 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 5 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 5 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 5 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 5 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 6 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 93 | 100 | 100 | 90 |
| 6 | Extreme | 2.17 LB/GAL | | 3 pt/a | | A | | | | |
| 6 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 6 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 6 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 6 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 6 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |

| | | | | |
|-------------------------------|-----------------|-----------------|------------------|------------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed |
| Pest Code | LAMPU | STEME | VERPG | ERICA |
| Pest Scientific Name | Lamium purpure> | Stellaria media | Veronica peregr> | Conyza canadens> |
| Pest Name | Purple deadnet> | Common chickwe> | Purslane speed> | Canada horsewe> |
| Crop Code | | | | |
| BBCH Scale | | | | |
| Crop Scientific Name | | | | |
| Crop Name | | | | |
| Rating Date | May-12-2010 | May-12-2010 | May-12-2010 | May-12-2010 |
| Rating Type | CONTROL | CONTROL | CONTROL | CONTROL |
| Rating Unit | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 21 21 | 21 21 | 21 21 | 21 21 |
| Trt-Eval Interval | 21 DA-A | 21 DA-A | 21 DA-A | 21 DA-A |
| Plant-Eval Interval | 13 DP-1 | 13 DP-1 | 13 DP-1 | 13 DP-1 |
| Days After Emergence | 5 DE-1 | 5 DE-1 | 5 DE-1 | 5 DE-1 |
| ARM Action Codes | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Form Conc | Form Unit | Other Rate | Other Unit | Appl Code | 5 | 6 | 7 | 8 |
|---------|--------------------|---------------|-----------|------------|------------|-----------|-------|------|------|--------|
| 7 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 87 | 100 | 100 | 99 |
| 7 | Prowl H2O | 3.8 LBA/GAL | | 2.6 pt/a | | A | | | | |
| 7 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | |
| 7 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 7 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 7 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 7 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 7 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 8 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | 98 | 100 | 100 | 52 |
| 8 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | A | | | | |
| 8 | N-pak ams | 100 % | | 2 qt/a | | A | | | | |
| 8 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 8 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 9 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | 63 | 70 | 85 | 80 |
| 9 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | |
| 9 | N-pak ams | 100 % | | 2 qt/a | | A | | | | |
| 9 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 9 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 10 | Boundary | 6.5 LBA/GAL | | 1.5 pt/a | | A | 72 | 100 | 100 | 56 |
| 10 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | |
| 10 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | A | | | | |
| 10 | N-pak ams | 100 % | | 2 qt/a | | A | | | | |
| 10 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 10 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 11 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 100 | 100 | 100 | 97 |
| 11 | 2,4-D | 4 LBA/GAL | | 1 pt/a | | A | | | | |
| 11 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 11 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 11 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 12 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 77 | 100 | 95 | 93 |
| 12 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | |
| 12 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 12 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 12 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 13 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 98 | 100 | 100 | 72 |
| 13 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | | | | |
| 13 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 13 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 13 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 14 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 97 | 100 | 100 | 100 |
| 14 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | |
| 14 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | | | | |
| 14 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 14 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 14 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| | LSD (P=.05) | | | | | | 8.7 | 4.7 | 2.4 | 22.1 |
| | Standard Deviation | | | | | | 5.2 | 2.8 | 1.4 | 13.1 |
| | CV | | | | | | 5.69 | 2.84 | 1.44 | 16.26 |
| | Bartlett's X2 | | | | | | 7.616 | 0.0 | 0.0 | 18.435 |
| | P(Bartlett's X2) | | | | | | 0.666 | . | . | 0.072 |

| | | | | |
|-------------------------------|-----------------|-----------------|-----------------|------------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed |
| Pest Code | LAMPU | STEME | VERPG | ERICA |
| Pest Scientific Name | Lamium purpure> | Stellaria media | Veronica pereg> | Conyza canadens> |
| Pest Name | Purple deadnet> | Common chickwe> | Purslane speed> | Canada horsewe> |
| Crop Code | | | | |
| BBCH Scale | | | | |
| Crop Scientific Name | | | | |
| Crop Name | | | | |
| Rating Date | May-12-2010 | May-12-2010 | May-12-2010 | May-12-2010 |
| Rating Type | CONTROL | CONTROL | CONTROL | CONTROL |
| Rating Unit | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 21 21 | 21 21 | 21 21 | 21 21 |
| Trt-Eval Interval | 21 DA-A | 21 DA-A | 21 DA-A | 21 DA-A |
| Plant-Eval Interval | 13 DP-1 | 13 DP-1 | 13 DP-1 | 13 DP-1 |
| Days After Emergence | 5 DE-1 | 5 DE-1 | 5 DE-1 | 5 DE-1 |
| ARM Action Codes | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 |
| Trt Treatment | Form Form | Other Other | Appl | |
| No. Name | Conc Unit | Rate Rate | Unit Code | |
| | | | | |
| Replicate F | | | | |
| Replicate Prob(F) | | | | |
| Treatment F | | | | |
| Treatment Prob(F) | | | | |

| | | | | | |
|-------------------------------|-----------------|-----------------|------------------|------------------|----------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed |
| Pest Code | SENGL | STEME | VERPG | ERICA | SETFA |
| Pest Scientific Name | Senecio glabel> | Stellaria media | Veronica peregr> | Conyza canadens> | Setaria faberi |
| Pest Name | Cressleaf grou> | Common chickwe> | Purslane speed> | Canada horsewe> | Giant foxtail |
| Crop Code | | | | | |
| BBCH Scale | | | | | |
| Crop Scientific Name | | | | | |
| Crop Name | | | | | |
| Rating Date | May-25-2010 | May-25-2010 | May-25-2010 | May-25-2010 | May-25-2010 |
| Rating Type | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL |
| Rating Unit | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 34 34 | 34 34 | 34 34 | 34 34 | 34 34 |
| Trt-Eval Interval | 34 DA-A | 34 DA-A | 34 DA-A | 34 DA-A | 34 DA-A |
| Plant-Eval Interval | 26 DP-1 | 26 DP-1 | 26 DP-1 | 26 DP-1 | 26 DP-1 |
| Days After Emergence | 18 DE- | 18 DE- | 18 DE- | 18 DE- | 18 DE- |
| ARM Action Codes | | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Form Conc | Form Unit | Other Rate | Other Unit | Appl Code | 9 | 10 | 11 | 12 | 13 |
|---------|-------------------|--------------|-----------|------------|------------|-----------|-----|-----|-----|----|-----|
| 1 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 100 | 100 | 100 | 40 | 32 |
| 1 | Nis | 100 % | | 0.2 qt/a | | A | | | | | |
| 1 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 1 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 1 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 1 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 2 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 100 | 100 | 100 | 60 | 72 |
| 2 | 2,4-D Ester | 4 LBA/GAL | | 16 oz/a | | A | | | | | |
| 2 | Nis | 100 % | | 0.2 qt/a | | A | | | | | |
| 2 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 2 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 2 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 2 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 3 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 100 | 100 | 100 | 57 | 0 |
| 3 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | | |
| 3 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 3 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 3 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 3 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 3 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 4 | OpTill | 68 %AW/W | | 2 oz/a | | A | 100 | 100 | 100 | 83 | 100 |
| 4 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | | |
| 4 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 4 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 4 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 4 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 4 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 5 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 100 | 100 | 100 | 77 | 100 |
| 5 | Scepter | 70 %AW/W | | 2.8 oz/a | | A | | | | | |
| 5 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | | |
| 5 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 5 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 5 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 5 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 5 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 6 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 100 | 100 | 100 | 82 | 100 |
| 6 | Extreme | 2.17 LB/GAL | | 3 pt/a | | A | | | | | |
| 6 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 6 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 6 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 6 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 6 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |

| | | | | | |
|-------------------------------|-----------------|-----------------|------------------|------------------|----------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed |
| Pest Code | SENGL | STEME | VERPG | ERICA | SETFA |
| Pest Scientific Name | Senecio glabel> | Stellaria media | Veronica peregr> | Conyza canadens> | Setaria faberi |
| Pest Name | Cressleaf grou> | Common chickwe> | Purslane speed> | Canada horsewe> | Giant foxtail |
| Crop Code | | | | | |
| BBCH Scale | | | | | |
| Crop Scientific Name | | | | | |
| Crop Name | | | | | |
| Rating Date | May-25-2010 | May-25-2010 | May-25-2010 | May-25-2010 | May-25-2010 |
| Rating Type | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL |
| Rating Unit | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 34 34 | 34 34 | 34 34 | 34 34 | 34 34 |
| Trt-Eval Interval | 34 DA-A | 34 DA-A | 34 DA-A | 34 DA-A | 34 DA-A |
| Plant-Eval Interval | 26 DP-1 | 26 DP-1 | 26 DP-1 | 26 DP-1 | 26 DP-1 |
| Days After Emergence | 18 DE- | 18 DE- | 18 DE- | 18 DE- | 18 DE- |
| ARM Action Codes | | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Form Conc | Form Unit | Other Rate | Other Unit | Appl Code | 9 | 10 | 11 | 12 | 13 |
|---------|--------------------|---------------|-----------|------------|------------|-----------|-------|------|-------|--------|-------|
| 7 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 100 | 100 | 100 | 86 | 100 |
| 7 | Prowl H2O | 3.8 LBA/GAL | | 2.6 pt/a | | A | | | | | |
| 7 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | | |
| 7 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 7 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 7 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 7 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 7 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 8 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | 100 | 100 | 100 | 37 | 100 |
| 8 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | A | | | | | |
| 8 | N-pak ams | 100 % | | 2 qt/a | | A | | | | | |
| 8 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 8 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 9 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | 56 | 88 | 51 | 74 | 100 |
| 9 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | | |
| 9 | N-pak ams | 100 % | | 2 qt/a | | A | | | | | |
| 9 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 9 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 10 | Boundary | 6.5 LBA/GAL | | 1.5 pt/a | | A | 100 | 100 | 100 | 47 | 100 |
| 10 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | | |
| 10 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | A | | | | | |
| 10 | N-pak ams | 100 % | | 2 qt/a | | A | | | | | |
| 10 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 10 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 11 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 100 | 100 | 75 | 67 | 40 |
| 11 | 2,4-D | 4 LBA/GAL | | 1 pt/a | | A | | | | | |
| 11 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 11 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 11 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 12 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 77 | 100 | 62 | 75 | 50 |
| 12 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | | |
| 12 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 12 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 12 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 13 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 100 | 100 | 100 | 60 | 100 |
| 13 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | | | | | |
| 13 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 13 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 13 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 14 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 100 | 100 | 100 | 97 | 100 |
| 14 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | | |
| 14 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | | | | | |
| 14 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 14 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 14 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| | LSD (P=.05) | | | | | | 19.2 | 5.9 | 6.2 | 22.9 | 41.9 |
| | Standard Deviation | | | | | | 11.4 | 3.5 | 3.7 | 13.6 | 24.8 |
| | CV | | | | | | 11.99 | 3.51 | 3.97 | 20.29 | 31.79 |
| | Bartlett's X2 | | | | | | 2.253 | 0.0 | 1.479 | 15.027 | 0.206 |
| | P(Bartlett's X2) | | | | | | 0.133 | . | 0.224 | 0.306 | 0.977 |

| | | | | | |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|----------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed |
| Pest Code | SENGL | STEME | VERPG | ERICA | SETFA |
| Pest Scientific Name | Senecio glabel> | Stellaria media | Veronica pereg> | Conyza canaden> | Setaria faberi |
| Pest Name | Cressleaf grou> | Common chickwe> | Purslane speed> | Canada horsewe> | Giant foxtail |
| Crop Code | | | | | |
| BBCH Scale | | | | | |
| Crop Scientific Name | | | | | |
| Crop Name | | | | | |
| Rating Date | May-25-2010 | May-25-2010 | May-25-2010 | May-25-2010 | May-25-2010 |
| Rating Type | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL |
| Rating Unit | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 34 34 | 34 34 | 34 34 | 34 34 | 34 34 |
| Trt-Eval Interval | 34 DA-A | 34 DA-A | 34 DA-A | 34 DA-A | 34 DA-A |
| Plant-Eval Interval | 26 DP-1 | 26 DP-1 | 26 DP-1 | 26 DP-1 | 26 DP-1 |
| Days After Emergence | 18 DE- | 18 DE- | 18 DE- | 18 DE- | 18 DE- |
| ARM Action Codes | | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |
| Trt Treatment | Form Form | Other Other | Appl | | |
| No. Name | Conc Unit | Rate Rate | Unit Code | 9 | 10 |
| Replicate F | | | | 0.756 | 0.923 |
| Replicate Prob(F) | | | | 0.4802 | 0.4110 |
| Treatment F | | | | 3.826 | 2.769 |
| Treatment Prob(F) | | | | 0.0022 | 0.0149 |
| | | | | 1.886 | 1.886 |
| | | | | 0.1735 | 0.1735 |
| | | | | 62.563 | 62.563 |
| | | | | 0.0001 | 0.0001 |
| | | | | 4.194 | 4.194 |
| | | | | 0.0274 | 0.0274 |
| | | | | 5.226 | 5.226 |
| | | | | 0.0002 | 0.0002 |
| | | | | 2.848 | 2.848 |
| | | | | 0.0776 | 0.0776 |
| | | | | 5.551 | 5.551 |
| | | | | 0.0002 | 0.0002 |

| | | | | |
|-------------------------------|-----------------|-----------------|----------------|-----------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed |
| Pest Code | AMBTR | TAROF | SETFA | AMBTR |
| Pest Scientific Name | Ambrosia trifi> | Taraxacum offi> | Setaria faberi | Ambrosia trifi> |
| Pest Name | Giant ragweed | Common dandel> | Giant foxtail | Giant ragweed |
| Crop Code | | | GLXMA | |
| BBCH Scale | | | BSOY | |
| Crop Scientific Name | | | Glycine max | |
| Crop Name | | | Soybean | |
| Rating Date | May-25-2010 | May-25-2010 | Jun-8-2010 | Jun-8-2010 |
| Rating Type | CONTROL | CONTROL | PHYGEN | CONTROL |
| Rating Unit | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 34 34 | 34 34 | 48 48 | 48 48 |
| Trt-Eval Interval | 34 DA-A | 34 DA-A | 0 DA-B | 0 DA-B |
| Plant-Eval Interval | 26 DP-1 | 26 DP-1 | 40 DP-1 | 40 DP-1 |
| Days After Emergence | 18 DE- | 18 DE- | 32 DE- | 32 DE- |
| ARM Action Codes | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 |

| Trt | Treatment | Form | Form | Other | Other | Appl | 14 | 15 | 16 | 17 | 18 |
|-----|-------------------|--------------|------|----------|-------|-----------|-----|-----|----|----|----|
| No. | Name | Conc | Unit | Rate | Rate | Unit Code | | | | | |
| 1 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 95 | 94 | 0 | 0 | 60 |
| 1 | Nis | 100 % | | 0.2 qt/a | | A | | | | | |
| 1 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 1 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 1 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 1 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 2 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 87 | 94 | 2 | 0 | 47 |
| 2 | 2,4-D Ester | 4 LBA/GAL | | 16 oz/a | | A | | | | | |
| 2 | Nis | 100 % | | 0.2 qt/a | | A | | | | | |
| 2 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 2 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 2 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 2 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 3 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 80 | 95 | 0 | 0 | 50 |
| 3 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | | |
| 3 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 3 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 3 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 3 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 3 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 4 | OpTill | 68 %AW/W | | 2 oz/a | | A | 97 | 95 | 2 | 85 | 50 |
| 4 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | | |
| 4 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 4 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 4 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 4 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 4 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 5 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 97 | 100 | 2 | 99 | 80 |
| 5 | Scepter | 70 %AW/W | | 2.8 oz/a | | A | | | | | |
| 5 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | | |
| 5 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 5 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 5 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 5 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 5 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 6 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 100 | 93 | 1 | 83 | 70 |
| 6 | Extreme | 2.17 LB/GAL | | 3 pt/a | | A | | | | | |
| 6 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 6 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 6 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 6 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 6 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |

| | | | | |
|-------------------------------|-----------------|-----------------|----------------|-----------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed |
| Pest Code | AMBTR | TAROF | SETFA | AMBTR |
| Pest Scientific Name | Ambrosia trifi> | Taraxacum offi> | Setaria faberi | Ambrosia trifi> |
| Pest Name | Giant ragweed | Common dandel> | Giant foxtail | Giant ragweed |
| Crop Code | | | GLXMA | |
| BBCH Scale | | | BSOY | |
| Crop Scientific Name | | | Glycine max | |
| Crop Name | | | Soybean | |
| Rating Date | May-25-2010 | May-25-2010 | Jun-8-2010 | Jun-8-2010 |
| Rating Type | CONTROL | CONTROL | PHYGEN | CONTROL |
| Rating Unit | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 34 34 | 34 34 | 48 48 | 48 48 |
| Trt-Eval Interval | 34 DA-A | 34 DA-A | 0 DA-B | 0 DA-B |
| Plant-Eval Interval | 26 DP-1 | 26 DP-1 | 40 DP-1 | 40 DP-1 |
| Days After Emergence | 18 DE- | 18 DE- | 32 DE- | 32 DE- |
| ARM Action Codes | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Form Conc | Form Unit | Other Rate | Other Unit | Appl Code | 14 | 15 | 16 | 17 | 18 |
|--------------------|-------------------|---------------|-----------|------------|------------|-----------|-------|--------|--------|--------|--------|
| 7 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 80 | 92 | 0 | 72 | 40 |
| 7 | Prowl H2O | 3.8 LBA/GAL | | 2.6 pt/a | | A | | | | | |
| 7 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | | |
| 7 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 7 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 7 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 7 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 7 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 8 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | 88 | 94 | 0 | 100 | 52 |
| 8 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | A | | | | | |
| 8 | N-pak ams | 100 % | | 2 qt/a | | A | | | | | |
| 8 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 8 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 9 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | 40 | 44 | 0 | 98 | 17 |
| 9 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | | |
| 9 | N-pak ams | 100 % | | 2 qt/a | | A | | | | | |
| 9 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 9 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 10 | Boundary | 6.5 LBA/GAL | | 1.5 pt/a | | A | 77 | 90 | 0 | 88 | 33 |
| 10 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | | |
| 10 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | A | | | | | |
| 10 | N-pak ams | 100 % | | 2 qt/a | | A | | | | | |
| 10 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 10 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 11 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 77 | 77 | 0 | 0 | 30 |
| 11 | 2,4-D | 4 LBA/GAL | | 1 pt/a | | A | | | | | |
| 11 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 11 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 11 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 12 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 90 | 27 | 0 | 0 | 40 |
| 12 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | | |
| 12 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 12 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 12 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 13 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 80 | 54 | 3 | 100 | 57 |
| 13 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | | | | | |
| 13 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 13 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 13 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 14 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 87 | 53 | 1 | 97 | 73 |
| 14 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | | |
| 14 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | | | | | |
| 14 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 14 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 14 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| LSD (P=.05) | | | | | | | 22.2 | 24.5 | 2.6 | 16.8 | 38.8 |
| Standard Deviation | | | | | | | 13.1 | 14.4 | 1.5 | 10.0 | 23.0 |
| CV | | | | | | | 15.61 | 18.36 | 192.53 | 16.97 | 46.09 |
| Bartlett's X2 | | | | | | | 7.839 | 12.657 | 2.132 | 13.557 | 11.064 |
| P(Bartlett's X2) | | | | | | | 0.728 | 0.124 | 0.831 | 0.035* | 0.523 |

| | | | | | |
|-------------------------------|-----------------|-----------------|----------------|-----------------|------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed |
| Pest Code | AMBTR | TAROF | SETFA | AMBTR | |
| Pest Scientific Name | Ambrosia trifi> | Taraxacum offi> | Setaria faberi | Ambrosia trifi> | |
| Pest Name | Giant ragweed | Common dandel> | Giant foxtail | Giant ragweed | |
| Crop Code | | | GLXMA | | |
| BBCH Scale | | | BSOY | | |
| Crop Scientific Name | | | Glycine max | | |
| Crop Name | | | Soybean | | |
| Rating Date | May-25-2010 | May-25-2010 | Jun-8-2010 | Jun-8-2010 | Jun-8-2010 |
| Rating Type | CONTROL | CONTROL | PHYGEN | CONTROL | CONTROL |
| Rating Unit | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 34 34 | 34 34 | 48 48 | 48 48 | 48 48 |
| Trt-Eval Interval | 34 DA-A | 34 DA-A | 0 DA-B | 0 DA-B | 0 DA-B |
| Plant-Eval Interval | 26 DP-1 | 26 DP-1 | 40 DP-1 | 40 DP-1 | 40 DP-1 |
| Days After Emergence | 18 DE- | 18 DE- | 32 DE- | 32 DE- | 32 DE- |
| ARM Action Codes | | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |
| Trt Treatment | Form Form | Other Other | Appl | | |
| No. Name | Conc Unit | Rate Rate | Unit Code | 14 | 15 |
| Replicate F | | | | 1.464 | 6.514 |
| Replicate Prob(F) | | | | 0.2530 | 0.0063 |
| Treatment F | | | | 3.853 | 8.239 |
| Treatment Prob(F) | | | | 0.0027 | 0.0001 |
| | | | | 1.815 | 0.356 |
| | | | | 0.7039 | 1.861 |
| | | | | 64.134 | 1.722 |
| | | | | 0.0001 | 0.1204 |

| | | | | |
|-------------------------------|-----------------|----------------|----------------|----------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed |
| Pest Code | ERICA | SENGL | TAROF | CHEAL |
| Pest Scientific Name | Conyza canadens | Senecio glabel | Taraxacum offi | Chenopodium al |
| Pest Name | Canada horsewe | Cressleaf grou | Common dandel | Common lambsqu |
| Crop Code | | | | |
| BBCH Scale | | | | |
| Crop Scientific Name | | | | |
| Crop Name | | | | |
| Rating Date | Jun-8-2010 | Jun-8-2010 | Jun-8-2010 | Jun-8-2010 |
| Rating Type | CONTROL | CONTROL | CONTROL | CONTROL |
| Rating Unit | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 48 48 | 48 48 | 48 48 | 48 48 |
| Trt-Eval Interval | 0 DA-B | 0 DA-B | 0 DA-B | 0 DA-B |
| Plant-Eval Interval | 40 DP-1 | 40 DP-1 | 40 DP-1 | 40 DP-1 |
| Days After Emergence | 32 DE- | 32 DE- | 32 DE- | 32 DE- |
| ARM Action Codes | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Form Conc | Form Unit | Other Rate | Other Rate | Appl Unit Code | 19 | 20 | 21 | 22 |
|---------|-------------------|--------------|-----------|------------|------------|----------------|----|-----|-----|-----|
| 1 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | 100 | 100 | 37 |
| 1 | Nis | 100 % | | 0.2 qt/a | | A | | | | |
| 1 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 1 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 1 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 1 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 2 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 37 | 100 | 100 | 40 |
| 2 | 2,4-D Ester | 4 LBA/GAL | | 16 oz/a | | A | | | | |
| 2 | Nis | 100 % | | 0.2 qt/a | | A | | | | |
| 2 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 2 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 2 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 2 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 3 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 33 | 100 | 90 | 50 |
| 3 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | |
| 3 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 3 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 3 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 3 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 3 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 4 | OpTill | 68 %AW/W | | 2 oz/a | | A | 70 | 100 | 87 | 100 |
| 4 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | |
| 4 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 4 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 4 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 4 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 4 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 5 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 53 | 100 | 83 | 100 |
| 5 | Scepter | 70 %AW/W | | 2.8 oz/a | | A | | | | |
| 5 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | |
| 5 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 5 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 5 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 5 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 5 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 6 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 70 | 100 | 67 | 100 |
| 6 | Extreme | 2.17 LB/GAL | | 3 pt/a | | A | | | | |
| 6 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 6 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 6 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 6 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 6 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |

| | | | | |
|-------------------------------|-------------------|---------------------|----------------------|----------------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed |
| Pest Code | ERICA | SENGL | TAROF | CHEAL |
| Pest Scientific Name | Conyza canadensis | Senecio glabellus | Taraxacum officinale | Chenopodium album |
| Pest Name | Canada horseweed | Cressleaf groundsel | Common dandelion | Common lambsquarters |
| Crop Code | | | | |
| BBCH Scale | | | | |
| Crop Scientific Name | | | | |
| Crop Name | | | | |
| Rating Date | Jun-8-2010 | Jun-8-2010 | Jun-8-2010 | Jun-8-2010 |
| Rating Type | CONTROL | CONTROL | CONTROL | CONTROL |
| Rating Unit | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 48 48 | 48 48 | 48 48 | 48 48 |
| Trt-Eval Interval | 0 DA-B | 0 DA-B | 0 DA-B | 0 DA-B |
| Plant-Eval Interval | 40 DP-1 | 40 DP-1 | 40 DP-1 | 40 DP-1 |
| Days After Emergence | 32 DE- | 32 DE- | 32 DE- | 32 DE- |
| ARM Action Codes | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Form Conc | Form Unit | Other Rate | Other Unit | Appl Code | 19 | 20 | 21 | 22 |
|---------|--------------------|---------------|-----------|------------|------------|-----------|-------|-------|-------|-------|
| 7 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 60 | 100 | 77 | 100 |
| 7 | Prowl H2O | 3.8 LBA/GAL | | 2.6 pt/a | | A | | | | |
| 7 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | |
| 7 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 7 | N-pak ams | 100 % | | 4 qt/a | | A | | | | |
| 7 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | |
| 7 | Nis | 100 % | | 0.2 qt/a | | B | | | | |
| 7 | N-pak ams | 100 % | | 4 qt/a | | B | | | | |
| 8 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | 23 | 100 | 100 | 100 |
| 8 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | A | | | | |
| 8 | N-pak ams | 100 % | | 2 qt/a | | A | | | | |
| 8 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 8 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 9 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | 57 | 51 | 15 | 97 |
| 9 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | |
| 9 | N-pak ams | 100 % | | 2 qt/a | | A | | | | |
| 9 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 9 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 10 | Boundary | 6.5 LBA/GAL | | 1.5 pt/a | | A | 27 | 93 | 80 | 100 |
| 10 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | |
| 10 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | A | | | | |
| 10 | N-pak ams | 100 % | | 2 qt/a | | A | | | | |
| 10 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 10 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 11 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 40 | 100 | 83 | 48 |
| 11 | 2,4-D | 4 LBA/GAL | | 1 pt/a | | A | | | | |
| 11 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 11 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 11 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 12 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 57 | 73 | 7 | 0 |
| 12 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | |
| 12 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 12 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 12 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 13 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 37 | 100 | 5 | 89 |
| 13 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | | | | |
| 13 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 13 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 13 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| 14 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 90 | 100 | 67 | 100 |
| 14 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | |
| 14 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | | | | |
| 14 | Mso | 100 % | | 0.8 qt/a | | A | | | | |
| 14 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | |
| 14 | N-pak ams | 100 % | | 2 qt/a | | B | | | | |
| | LSD (P=.05) | | | | | | 24.5 | 33.4 | 35.0 | 36.8 |
| | Standard Deviation | | | | | | 14.6 | 19.8 | 20.8 | 21.8 |
| | CV | | | | | | 30.27 | 21.03 | 30.26 | 28.81 |
| | Bartlett's X2 | | | | | | 8.833 | 3.962 | 7.163 | 3.091 |
| | P(Bartlett's X2) | | | | | | 0.717 | 0.138 | 0.62 | 0.686 |

| | | | | |
|-------------------------------|---------------------|-----------------------|----------------------|----------------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed |
| Pest Code | ERICA | SENGL | TAROF | CHEAL |
| Pest Scientific Name | Conyza canadensis | Senecio glaberrimus | Taraxacum officinale | Chenopodium album |
| Pest Name | Canada horseweed | Cressleaf groundsel | Common dandelion | Common lambsquarters |
| Crop Code | | | | |
| BBCH Scale | | | | |
| Crop Scientific Name | | | | |
| Crop Name | | | | |
| Rating Date | Jun-8-2010 | Jun-8-2010 | Jun-8-2010 | Jun-8-2010 |
| Rating Type | CONTROL | CONTROL | CONTROL | CONTROL |
| Rating Unit | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 48 48 | 48 48 | 48 48 | 48 48 |
| Trt-Eval Interval | 0 DA-B | 0 DA-B | 0 DA-B | 0 DA-B |
| Plant-Eval Interval | 40 DP-1 | 40 DP-1 | 40 DP-1 | 40 DP-1 |
| Days After Emergence | 32 DE- | 32 DE- | 32 DE- | 32 DE- |
| ARM Action Codes | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 |
| Trt. Treatment No. Name | Form Form Conc Unit | Other Other Rate Rate | Appl Unit Code | |
| | | | | 19 20 21 22 |
| Replicate F | 4.360 | 0.178 | 9.818 | 2.485 |
| Replicate Prob(F) | 0.0243 | 0.8378 | 0.0008 | 0.1045 |
| Treatment F | 5.922 | 1.554 | 8.045 | 7.115 |
| Treatment Prob(F) | 0.0001 | 0.1692 | 0.0001 | 0.0001 |

| | | | | | |
|-------------------------------|----------------|-----------------|-----------------|-----------------|-----------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed |
| Pest Code | SETFA | CHEAL | AMBTR | ERICA | AMBTR |
| Pest Scientific Name | Setaria faberi | Chenopodium al> | Ambrosia trifi> | Conyza canad> | Ambrosia trifi> |
| Pest Name | Giant foxtail | Common lambsqu> | Giant ragweed | Canada horsewe> | Giant ragweed |
| Crop Code | | | | | |
| BBCH Scale | | | | | |
| Crop Scientific Name | | | | | |
| Crop Name | | | | | |
| Rating Date | Jul-9-2010 | Jul-9-2010 | Jul-9-2010 | Jul-9-2010 | Sep-17-2010 |
| Rating Type | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL |
| Rating Unit | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 79 31 | 79 31 | 79 31 | 79 31 | 149 101 |
| Trt-Eval Interval | 31 DA-B | 31 DA-B | 31 DA-B | 31 DA-B | |
| Plant-Eval Interval | 71 DP-1 | 71 DP-1 | 71 DP-1 | 71 DP-1 | 141 DP-1 |
| Days After Emergence | 63 DE- | 63 DE- | 63 DE- | 63 DE- | 133 DE |
| ARM Action Codes | | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Form Conc | Form Unit | Other Rate | Other Rate Unit | Appl Code | 23 | 24 | 25 | 26 | 27 |
|---------|-------------------|--------------|-----------|------------|-----------------|-----------|-----|-----|-----|----|----|
| 1 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 100 | 100 | 97 | 42 | 85 |
| 1 | Nis | 100 % | | 0.2 qt/a | | A | | | | | |
| 1 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 1 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 1 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 1 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 2 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 100 | 100 | 100 | 47 | 78 |
| 2 | 2,4-D Ester | 4 LBA/GAL | | 16 oz/a | | A | | | | | |
| 2 | Nis | 100 % | | 0.2 qt/a | | A | | | | | |
| 2 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 2 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 2 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 2 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 3 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 100 | 100 | 98 | 65 | 82 |
| 3 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | | |
| 3 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 3 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 3 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 3 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 3 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 4 | OpTill | 68 %AW/W | | 2 oz/a | | A | 100 | 100 | 95 | 81 | 87 |
| 4 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | | |
| 4 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 4 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 4 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 4 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 4 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 5 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 100 | 100 | 100 | 63 | 93 |
| 5 | Scepter | 70 %AW/W | | 2.8 oz/a | | A | | | | | |
| 5 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | | |
| 5 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 5 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 5 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 5 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 5 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 6 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 100 | 100 | 97 | 67 | 88 |
| 6 | Extreme | 2.17 LB/GAL | | 3 pt/a | | A | | | | | |
| 6 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 6 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 6 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 6 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 6 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |

| | | | | | |
|-------------------------------|----------------|-----------------|-----------------|-----------------|-----------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed |
| Pest Code | SETFA | CHEAL | AMBTR | ERICA | AMBTR |
| Pest Scientific Name | Setaria faberi | Chenopodium al> | Ambrosia trifi> | Conyza canad> | Ambrosia trifi> |
| Pest Name | Giant foxtail | Common lambsqu> | Giant ragweed | Canada horsewe> | Giant ragweed |
| Crop Code | | | | | |
| BBCH Scale | | | | | |
| Crop Scientific Name | | | | | |
| Crop Name | | | | | |
| Rating Date | Jul-9-2010 | Jul-9-2010 | Jul-9-2010 | Jul-9-2010 | Sep-17-2010 |
| Rating Type | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL |
| Rating Unit | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 79 31 | 79 31 | 79 31 | 79 31 | 149 101 |
| Trt-Eval Interval | 31 DA-B | 31 DA-B | 31 DA-B | 31 DA-B | |
| Plant-Eval Interval | 71 DP-1 | 71 DP-1 | 71 DP-1 | 71 DP-1 | 141 DP-1 |
| Days After Emergence | 63 DE- | 63 DE- | 63 DE- | 63 DE- | 133 DE |
| ARM Action Codes | | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |

| Trt No. | Treatment Name | Form Conc | Form Unit | Other Rate | Other Unit | Appl Code | 23 | 24 | 25 | 26 | 27 |
|---------|--------------------|---------------|-----------|------------|------------|-----------|------|------|-------|--------|-------|
| 7 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 100 | 100 | 97 | 69 | 85 |
| 7 | Prowl H2O | 3.8 LBA/GAL | | 2.6 pt/a | | A | | | | | |
| 7 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | | | | | |
| 7 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 7 | N-pak ams | 100 % | | 4 qt/a | | A | | | | | |
| 7 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | | | | | |
| 7 | Nis | 100 % | | 0.2 qt/a | | B | | | | | |
| 7 | N-pak ams | 100 % | | 4 qt/a | | B | | | | | |
| 8 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | 100 | 100 | 97 | 42 | 83 |
| 8 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | A | | | | | |
| 8 | N-pak ams | 100 % | | 2 qt/a | | A | | | | | |
| 8 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 8 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 9 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | 100 | 100 | 97 | 46 | 88 |
| 9 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | | |
| 9 | N-pak ams | 100 % | | 2 qt/a | | A | | | | | |
| 9 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 9 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 10 | Boundary | 6.5 LBA/GAL | | 1.5 pt/a | | A | 100 | 100 | 100 | 40 | 95 |
| 10 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | | |
| 10 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | A | | | | | |
| 10 | N-pak ams | 100 % | | 2 qt/a | | A | | | | | |
| 10 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 10 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 11 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 100 | 100 | 92 | 65 | 82 |
| 11 | 2,4-D | 4 LBA/GAL | | 1 pt/a | | A | | | | | |
| 11 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 11 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 11 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 12 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 100 | 100 | 100 | 57 | 93 |
| 12 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | | |
| 12 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 12 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 12 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 13 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 100 | 100 | 99 | 49 | 88 |
| 13 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | | | | | |
| 13 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 13 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 13 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| 14 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 100 | 100 | 100 | 89 | 100 |
| 14 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | | | | | |
| 14 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | | | | | |
| 14 | Mso | 100 % | | 0.8 qt/a | | A | | | | | |
| 14 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | | | | | |
| 14 | N-pak ams | 100 % | | 2 qt/a | | B | | | | | |
| | LSD (P=.05) | | | | | | 0.0 | 0.0 | 9.4 | 21.1 | 18.5 |
| | Standard Deviation | | | | | | 0.0 | 0.0 | 5.6 | 12.5 | 10.9 |
| | CV | | | | | | 0.01 | 0.01 | 5.71 | 21.31 | 12.49 |
| | Bartlett's X2 | | | | | | 0.0 | 0.0 | 6.01 | 13.769 | 5.115 |
| | P(Bartlett's X2) | | | | | | . | . | 0.539 | 0.39 | 0.954 |

| | | | | | |
|-------------------------------|----------------|-----------------|-----------------|-----------------|-----------------|
| Pest Type | W Weed | W Weed | W Weed | W Weed | W Weed |
| Pest Code | SETFA | CHEAL | AMBTR | ERICA | AMBTR |
| Pest Scientific Name | Setaria faberi | Chenopodium al | Ambrosia trifi> | Conyza canaden> | Ambrosia trifi> |
| Pest Name | Giant foxtail | Common lambsqu> | Giant ragweed | Canada horsewe> | Giant ragweed |
| Crop Code | | | | | |
| BBCH Scale | | | | | |
| Crop Scientific Name | | | | | |
| Crop Name | | | | | |
| Rating Date | Jul-9-2010 | Jul-9-2010 | Jul-9-2010 | Jul-9-2010 | Sep-17-2010 |
| Rating Type | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL |
| Rating Unit | % | % | % | % | % |
| Number of Subsamples | 1 | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | 79 31 | 79 31 | 79 31 | 79 31 | 149 101 |
| Trt-Eval Interval | 31 DA-B | 31 DA-B | 31 DA-B | 31 DA-B | |
| Plant-Eval Interval | 71 DP-1 | 71 DP-1 | 71 DP-1 | 71 DP-1 | 141 DP-1 |
| Days After Emergence | 63 DE- | 63 DE- | 63 DE- | 63 DE- | 133 DE |
| ARM Action Codes | | | | | |
| Number of Decimals | 0 | 0 | 0 | 0 | 0 |
| Trt Treatment | Form Form | Other Other | Appl | | |
| No. Name | Conc Unit | Rate Rate | Unit Code | 23 | 24 |
| Replicate F | | | | 0.000 | 0.000 |
| Replicate Prob(F) | | | | 1.0000 | 1.0000 |
| Treatment F | | | | 0.000 | 0.000 |
| Treatment Prob(F) | | | | 1.0000 | 1.0000 |
| | | | | 2.018 | 0.1549 |
| | | | | 1.048 | 0.3660 |
| | | | | 4.507 | 0.893 |
| | | | | 0.0007 | 0.5715 |

Pest Type W Weed
 Pest Code ERICA
 Pest Scientific Name Conyza canadens
 Pest Name Canada horsewee
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date Sep-17-2010
 Rating Type CONTROL
 Rating Unit %
 Number of Subsamples 1
 Days After First/Last Applic. 149 101
 Trt-Eval Interval
 Plant-Eval Interval 141 DP-1
 Days After Emergence 133 DE
 ARM Action Codes
 Number of Decimals 0

| Trt No. | Treatment Name | Form Conc | Form Unit | Other Rate | Other Rate | Appl Unit Code | 28 |
|---------|-------------------|--------------|-----------|------------|------------|----------------|----|
| 1 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 50 |
| 1 | Nis | 100 % | | 0.2 qt/a | | A | |
| 1 | N-pak ams | 100 % | | 4 qt/a | | A | |
| 1 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | |
| 1 | Nis | 100 % | | 0.2 qt/a | | B | |
| 1 | N-pak ams | 100 % | | 4 qt/a | | B | |
| 2 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 60 |
| 2 | 2,4-D Ester | 4 LBA/GAL | | 16 oz/a | | A | |
| 2 | Nis | 100 % | | 0.2 qt/a | | A | |
| 2 | N-pak ams | 100 % | | 4 qt/a | | A | |
| 2 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | |
| 2 | Nis | 100 % | | 0.2 qt/a | | B | |
| 2 | N-pak ams | 100 % | | 4 qt/a | | B | |
| 3 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | 75 |
| 3 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | |
| 3 | Mso | 100 % | | 0.8 qt/a | | A | |
| 3 | N-pak ams | 100 % | | 4 qt/a | | A | |
| 3 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | |
| 3 | Nis | 100 % | | 0.2 qt/a | | B | |
| 3 | N-pak ams | 100 % | | 4 qt/a | | B | |
| 4 | OpTill | 68 %AW/W | | 2 oz/a | | A | 95 |
| 4 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | |
| 4 | Mso | 100 % | | 0.8 qt/a | | A | |
| 4 | N-pak ams | 100 % | | 4 qt/a | | A | |
| 4 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | |
| 4 | Nis | 100 % | | 0.2 qt/a | | B | |
| 4 | N-pak ams | 100 % | | 4 qt/a | | B | |
| 5 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 72 |
| 5 | Scepter | 70 %AW/W | | 2.8 oz/a | | A | |
| 5 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | |
| 5 | Mso | 100 % | | 0.8 qt/a | | A | |
| 5 | N-pak ams | 100 % | | 4 qt/a | | A | |
| 5 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | |
| 5 | Nis | 100 % | | 0.2 qt/a | | B | |
| 5 | N-pak ams | 100 % | | 4 qt/a | | B | |
| 6 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 67 |
| 6 | Extreme | 2.17 LB/GAL | | 3 pt/a | | A | |
| 6 | Mso | 100 % | | 0.8 qt/a | | A | |
| 6 | N-pak ams | 100 % | | 4 qt/a | | A | |
| 6 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | |
| 6 | Nis | 100 % | | 0.2 qt/a | | B | |
| 6 | N-pak ams | 100 % | | 4 qt/a | | B | |

Pest Type W Weed
 Pest Code ERICA
 Pest Scientific Name Conyza canadens
 Pest Name Canada horsewee
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date Sep-17-2010
 Rating Type CONTROL
 Rating Unit %
 Number of Subsamples 1
 Days After First/Last Applic. 149 101
 Trt-Eval Interval
 Plant-Eval Interval 141 DP-1
 Days After Emergence 133 DE
 ARM Action Codes
 Number of Decimals 0

| Trt No. | Treatment Name | Form Conc | Form Unit | Other Rate | Other Unit | Appl Code | 28 |
|---------|-------------------|---------------|-----------|------------|------------|-----------|----|
| 7 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | 73 |
| 7 | Prowl H2O | 3.8 LBA/GAL | | 2.6 pt/a | | A | |
| 7 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | A | |
| 7 | Mso | 100 % | | 0.8 qt/a | | A | |
| 7 | N-pak ams | 100 % | | 4 qt/a | | A | |
| 7 | Roundup Power Max | 4.5 LBAE/GAL | | 22 oz/a | | B | |
| 7 | Nis | 100 % | | 0.2 qt/a | | B | |
| 7 | N-pak ams | 100 % | | 4 qt/a | | B | |
| 8 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | 50 |
| 8 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | A | |
| 8 | N-pak ams | 100 % | | 2 qt/a | | A | |
| 8 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | |
| 8 | N-pak ams | 100 % | | 2 qt/a | | B | |
| 9 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | 55 |
| 9 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | |
| 9 | N-pak ams | 100 % | | 2 qt/a | | A | |
| 9 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | |
| 9 | N-pak ams | 100 % | | 2 qt/a | | B | |
| 10 | Boundary | 6.5 LBA/GAL | | 1.5 pt/a | | A | 53 |
| 10 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | |
| 10 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | A | |
| 10 | N-pak ams | 100 % | | 2 qt/a | | A | |
| 10 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | |
| 10 | N-pak ams | 100 % | | 2 qt/a | | B | |
| 11 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 77 |
| 11 | 2,4-D | 4 LBA/GAL | | 1 pt/a | | A | |
| 11 | Mso | 100 % | | 0.8 qt/a | | A | |
| 11 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | |
| 11 | N-pak ams | 100 % | | 2 qt/a | | B | |
| 12 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 67 |
| 12 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | |
| 12 | Mso | 100 % | | 0.8 qt/a | | A | |
| 12 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | |
| 12 | N-pak ams | 100 % | | 2 qt/a | | B | |
| 13 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 62 |
| 13 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | |
| 13 | Mso | 100 % | | 0.8 qt/a | | A | |
| 13 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | |
| 13 | N-pak ams | 100 % | | 2 qt/a | | B | |
| 14 | Gramoxone Inteon | 2 LBA/GAL | | 3 pt/a | | A | 90 |
| 14 | Sharpen | 2.85 LBA/GAL | | 1 oz/a | | A | |
| 14 | Prefix | 5.29 LBA/GAL | | 2 pt/a | | A | |
| 14 | Mso | 100 % | | 0.8 qt/a | | A | |
| 14 | Touchdown Total | 4.17 LBAE/GAL | | 24 oz/a | | B | |
| 14 | N-pak ams | 100 % | | 2 qt/a | | B | |

LSD (P=.05) 22.1
 Standard Deviation 13.1
 CV 19.41
 Bartlett's X2 11.654
 P(Bartlett's X2) 0.474

| | |
|-------------------------------|-------------------|
| Pest Type | W Weed |
| Pest Code | ERICA |
| Pest Scientific Name | Conyza canadensis |
| Pest Name | Canada horseweed |
| Crop Code | |
| BBCH Scale | |
| Crop Scientific Name | |
| Crop Name | |
| Rating Date | Sep-17-2010 |
| Rating Type | CONTROL |
| Rating Unit | % |
| Number of Subsamples | 1 |
| Days After First/Last Applic. | 149 101 |
| Trt-Eval Interval | |
| Plant-Eval Interval | 141 DP-1 |
| Days After Emergence | 133 DE |
| ARM Action Codes | |
| Number of Decimals | 0 |

| Trt No. | Treatment Name | Form Conc | Form Unit | Other Rate | Other Rate | Appl Unit Code | |
|---------|-------------------|-----------|-----------|------------|------------|----------------|--------|
| | | | | | | | 28 |
| | Replicate F | | | | | | 0.123 |
| | Replicate Prob(F) | | | | | | 0.8847 |
| | Treatment F | | | | | | 3.384 |
| | Treatment Prob(F) | | | | | | 0.0047 |

Ohio State University Horticulture and Crop Science

KIXOR PRE PLANT BURNDOWN

Title No. 2:

Trial ID: 10NTS3 Protocol ID: 10NTS3
Location: Western Branch Study Director: Bryan Reeb
Project ID: 10NTS3 Investigator: Dr. Mark M. Loux
Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

LAMPU, Lamium purpureum, = US
STEME, Stellaria media, = US
VERPG, Veronica peregrina, = US
ERICA, Conyza canadensis, = US
SENGL, Senecio glabellus, = US
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
TAROF, Taraxacum officinale, = US
CHEAL, Chenopodium album, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

Plant-Eval Interval

-1 DP-1 = 1 Apr-29-2010
13 DP-1 = 1 Apr-29-2010
26 DP-1 = 1 Apr-29-2010
40 DP-1 = 1 Apr-29-2010
71 DP-1 = 1 Apr-29-2010
141 DP-1 = 1 Apr-29-2010

Ohio State University Horticulture and Crop Science

KIXOR PRE PLANT BURNDOWN

Title No. 2:
 Trial ID: 10NTS3 Protocol ID: 10NTS3
 Location: Western Branch Study Director: Bryan Reeb
 Project ID: 10NTS3 Investigator: Dr. Mark M. Loux
 Sponsor Contact:

General Trial Information

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Trial Location

Latitude of LL Corner °: 39.8581 N
Longitude of LL Corner °: 83.67583 W
Altitude of LL Corner, Unit: 1093.00 FT

Personnel

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Crop Description

| | |
|---|--|
| <p>Crop 1: GLXMA Glycine max Soybean Variety: SC 9349 RR BBCH Scale: BSOY Planting Method: SEEDED seeded Depth, Unit: 0.75 IN Row Spacing, Unit: 15 IN Seed Bed: NO-TIL Soil Moisture: GOOD good Harvest Date: Sep-22-2010 Harvested Width, Unit: 6.25 FT % Standard Moisture: 13.0 Weighing Equipment: HARVEST MASTER 401</p> | <p>Description: RR Planting Date: Apr-29-2010 Rate, Unit: 196000 S/A Emergence Date: May-7-2010 Harvest Equipment: MASSEY 8 XP Harvested Length, Unit: 30 FT Moisture Meter: HARVEST MASTER</p> |
|---|--|

Pest Description

Pest 1 Type: W **Code:** ERICA Conyza canadensis
Common Name: horseweed

Pest 2 Type: W **Code:** LAMPU Lamium purpureum
Common Name: Purple deadnettel

Pest 3 Type: W **Code:** VERPG Veronica peregrina
Common Name: Purslane speedwell

Pest 4 Type: W **Code:** TAROF Taraxacum officinale
Common Name: Common dandelion

Pest 5 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 6 Type: W **Code:** STEME Stellaria media
Common Name: Common chickweed

Pest 7 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 8 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 9 Type: W **Code:** AMARE Amaranthus retroflexus
Common Name: Redroot pigweed

Pest10 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: Velvetleaf

Pest11 Type: W **Code:** POLPY Polygonum pensylvanicum
Common Name: Pennsylvania smartweed

Site and Design

Plot Width, Unit: 6.67 FT
Plot Length, Unit: 30 FT
Plot Area, Unit: 200.1 FT²
Replications: 3 **Study Design:** RACOB L Randomized Complete Block (RCB)