

Ohio State University  
Horticulture and Crop Science

2011/AUTHORITYXL/AUTHORITY MTZ/FALL/SPRING

Title No. 2:  
 Trial ID: 12FALLSOY2 Protocol ID: 12FALLSOY2  
 Location: WESTERN BRANCH F-10 E Study Director:  
 Project ID: SULF.SOY.11.JPR.11 Investigator: Dr. Mark M. Loux  
 Sponsor Contact: Joe Reed, FMC

General Trial Information

Study Director: Anthony F. Dobbels Title: Research Specialist  
 Investigator: Dr. Mark M. Loux Title: Professor

Trial Location

City: South Charleston Latitude of LL Corner °: 39.85863 N  
 State/Prov.: Ohio Longitude of LL Corner °: 83.67052 W  
 Postal Code: 45368  
 Country: USA

Crop Description

Crop 1: GLXMA Glycine max Soybean  
 Variety: Pioneer 93Y51 Description: RR  
 BBCH Scale: BSOY Planting Date: Apr-30-2012  
 Planting Method: SEEDED seeded Rate, Unit: 225000 S/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 Emergence Date: May-9-2012

Pest Description

Pest 1 Type: W Code: STEME *Stellaria media*  
 Common Name: Common chickweed  
 Pest 2 Type: W Code: VERAR *Veronica arvensis*  
 Common Name: Corn speedwell  
 Pest 3 Type: W Code: ERYRE *Erysimum repandum*  
 Common Name: Bushy wallflower  
 Pest 4 Type: W Code: CAPBP *Capsella bursa-pastoris*  
 Common Name: Shepherd's purse  
 Pest 5 Type: W Code: ERICA *Conyza canadensis*  
 Common Name: Canada horseweed  
 Pest 6 Type: W Code: LAMPU *Lamium purpureum*  
 Common Name: Purple deadnettel

Site and Design

Plot Width, Unit: 10 FT Site Type: FIELD field  
 Plot Length, Unit: 30 FT Experimental Unit: 1 PLOT plot  
 Plot Area, Unit: 300 FT2 Tillage Type: NOTILL no-till  
 Replications: 3 Study Design: RACOB L Randomized Complete Block (RCB)  
 Untreated Arrangement: INCLUDED single control randomized in each block

Trial Initiation Comments:

No. Previous Crop Year  
 1. SOYBEAN 2011

Soil Description

Description Name: F-10 East  
 % OM: 3.3 Texture: SICL silty clay loam  
 pH: 6 Soil Name: Kokomo  
 CEC: 25.7 Fert. Level: G good  
 Soil Drainage: G good

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Application Description

|                         | A           | B          |
|-------------------------|-------------|------------|
| Application Date:       | Nov-17-2011 | May-2-2012 |
| Time of Day:            | 10:00 A.M   | 10:00 A.M  |
| Application Method:     | SPRAY       | SPRAY      |
| Application Timing:     | FALL        | ATPLAN     |
| Application Placement:  | BROFOL      | BROFOL     |
| Applied By:             | McCormick   |            |
| Air Temperature, Unit:  | 38 F        | 71 F       |
| % Relative Humidity:    | 49          | 81         |
| Wind Velocity, Unit:    | 8 MPH       | 7 MPH      |
| Wind Direction:         | WSW         | SSW        |
| Dew Presence (Y/N):     | N no        | N no       |
| Soil Temperature, Unit: | 41 F        | 60 F       |
| Soil Moisture:          | SLIWET      | WET        |
| % Cloud Cover:          | 7           | 0          |
| Next Rain Occurred On:  | Nov-21-2011 | May-4-2012 |

Crop Stage At Each Application

|                          | A     | B               |
|--------------------------|-------|-----------------|
| Crop 1 Code, BBCH Scale: | GLXMA | BSOY GLXMA BSOY |

Pest Stage At Each Application

|                           | A     |     | B     |     |
|---------------------------|-------|-----|-------|-----|
| Pest 1 Code, Type, Scale: | STEME | W   | STEME | W   |
| Stage Majority, Percent:  | 19    | 100 | 65    | 100 |
| Diameter, Unit:           | 3     | IN  | 8     | IN  |
| Height, Unit:             | 1     | IN  | 1     | IN  |
| Height Minimum, Maximum:  | 1     | 2   | 1     | 1   |
| Density, Unit:            | 4     | m2  | 4     | m2  |
| Pest 2 Code, Type, Scale: | VERAR | W   | VERAR | W   |
| Stage Majority, Percent:  |       |     | 65    | 100 |
| Diameter, Unit:           |       |     | 8     | IN  |
| Height, Unit:             |       |     | 3     | IN  |
| Height Minimum, Maximum:  |       |     | 3     | 3   |
| Density, Unit:            |       |     | 4     | m2  |
| Pest 3 Code, Type, Scale: | ERYRE | W   | ERYRE | W   |
| Stage Majority, Percent:  |       |     | 65    | 100 |
| Height, Unit:             |       |     | 10    | IN  |
| Height Minimum, Maximum:  |       |     | 10    | 10  |
| Density, Unit:            |       |     | 0.25  | m2  |
| Pest 4 Code, Type, Scale: | CAPBP | W   | CAPBP | W   |
| Stage Majority, Percent:  |       |     | 65    | 100 |
| Height, Unit:             |       |     | 10    | IN  |
| Height Minimum, Maximum:  |       |     | 10    | 10  |
| Density, Unit:            |       |     | 5.33  | m2  |
| Pest 5 Code, Type, Scale: | ERICA | W   | ERICA | W   |
| Stage Majority, Percent:  |       |     | 16    | 100 |
| Diameter, Unit:           |       |     | 1     | IN  |
| Height, Unit:             |       |     | 1     | IN  |
| Height Minimum, Maximum:  |       |     | 1     | 1   |
| Density, Unit:            |       |     | 42.66 | m2  |
| Pest 6 Code, Type, Scale: | LAMPU | W   | LAMPU | W   |
| Stage Majority, Percent:  | 14    | 90  | 65    | 100 |
| Stage Minimum, Percent:   | 12    | 10  |       |     |
| Stage Maximum, Percent:   | 14    | 90  |       |     |
| Diameter, Unit:           | 1     | IN  |       |     |
| Height, Unit:             | 1     | IN  | 5     | IN  |
| Height Minimum, Maximum:  | 1     | 2   | 5     | 5   |
| Density, Unit:            | 5     | m2  | 5     | m2  |

Application Equipment

|                           | A            | B         |
|---------------------------|--------------|-----------|
| Appl. Equipment:          | 10 Foot Boom | 10' AI XR |
| Equipment Type:           | SPRBAC       | SPRBAC    |
| Operation Pressure, Unit: | 46 PSI       | 46 PSI    |
| Nozzle Type:              | AI XR        | AI XR     |
| Nozzle Size:              | 110015       | 110015    |
| Nozzle Spacing, Unit:     | 18 IN        | 18 IN     |
| Boom Length, Unit:        | 10 FT        | 10 FT     |
| Boom Height, Unit:        | 20 IN        | 20 IN     |
| Ground Speed, Unit:       | 3 MPH        | 3 MPH     |
| Carrier:                  | WATER        | WATER     |
| Spray Volume, Unit:       | 15 GPA       | 15 GPA    |
| Mix Size, Unit:           | 2 Liters     | 2 Liters  |
| Propellant:               | CO2          | CO2       |

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Trial ID: 12FALLSOY2  
Location: WESTERN BRANCH F-10 E  
Project ID: SULF.SOY.11.JPR.11Protocol ID: 12FALLSOY2  
Study Director:  
Investigator: Dr. Mark M. Loux  
Sponsor Contact: Joe Reed, FMC

| Pest Type                     | W Weed          | W Weed          | W Weed          | W Weed          |      |       |       |       |       |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|------|-------|-------|-------|-------|
| Pest Code                     | STEME           | LAMPU           | CAPBP           | VERAR           |      |       |       |       |       |
| Pest Scientific Name          | Stellaria media | Lamium purpure> | Capsella bursa> | Veronica arven> |      |       |       |       |       |
| Pest Name                     | Common chickwe> | Purple deadnet> | Shepherd's pur> | Corn speedwell  |      |       |       |       |       |
| 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               |      |       |       |       |       |
| Rating Timing                 | AT PLANT        | AT PLANT        | AT PLANT        | AT PLANT        |      |       |       |       |       |
| Days After First/Last Applic. | 165 165         | 165 165         | 165 165         | 165 165         |      |       |       |       |       |
| Trt-Eval Interval             | 165 DA-A        | 165 DA-A        | 165 DA-A        | 165 DA-A        |      |       |       |       |       |
| Plant-Eval Interval           | 0 DP-1          | 0 DP-1          | 0 DP-1          | 0 DP-1          |      |       |       |       |       |
| Days After Emergence          | -9 DE-1         | -9 DE-1         | -9 DE-1         | -9 DE-1         |      |       |       |       |       |
| Number of Decimals            | 0               | 0               | 0               | 0               |      |       |       |       |       |
| Trt Treatment No. Name        | Rate            | Other           | Other           | Growth          | Appl | 1     | 2     | 3     | 4     |
| Rate Unit                     | Rate            | Rate Unit       | Rate Unit       | Stage           | Code |       |       |       |       |
| 1 UNTREATED                   |                 |                 |                 |                 |      | 0 b   | 0 c   | 0 b   | 0 c   |
| 2 AUTHORITY XL                | 4 oz/a          |                 | 4 oz/a          | FALL            | A    | 100 a | 100 a | 100 a | 100 a |
| 2 WEEDMASTER                  | 1.5 pt/a        |                 | 1.5 pt/a        | FALL            | A    |       |       |       |       |
| 2 COC                         | 1 % v/v         |                 | 1 % v/v         | FALL            | A    |       |       |       |       |
| 2 AUTHORITY MTZ               | 12 oz/a         |                 | 12 oz/a         | PRE             | B    |       |       |       |       |
| 2 GRAMOXONE INTEON            | 2.5 pt/a        |                 | 2.5 pt/a        | PRE             | B    |       |       |       |       |
| 2 COC                         | 1 % v/v         |                 | 1 % v/v         | PRE             | B    |       |       |       |       |
| 2 N-PAK AMS                   | 2.5 % v/v       |                 | 2.5 % v/v       | PRE             | B    |       |       |       |       |
| 3 AUTHORITY XL                | 4 oz/a          |                 | 4 oz/a          | FALL            | A    | 100 a | 100 a | 100 a | 100 a |
| 3 WEEDMASTER                  | 1.5 pt/a        |                 | 1.5 pt/a        | FALL            | A    |       |       |       |       |
| 3 COC                         | 1 % v/v         |                 | 1 % v/v         | FALL            | A    |       |       |       |       |
| 3 AUTHORITY MTZ               | 12 oz/a         |                 | 12 oz/a         | PRE             | B    |       |       |       |       |
| 3 GRAMOXONE INTEON            | 2.5 pt/a        |                 | 2.5 pt/a        | PRE             | B    |       |       |       |       |
| 3 BUTYRAC 200                 | 12 oz/a         |                 | 12 oz/a         | PRE             | B    |       |       |       |       |
| 3 COC                         | 1 % v/v         |                 | 1 % v/v         | PRE             | B    |       |       |       |       |
| 3 N-PAK AMS                   | 2.5 % v/v       |                 | 2.5 % v/v       | PRE             | B    |       |       |       |       |
| 4 AUTHORITY XL                | 4 oz/a          |                 | 4 oz/a          | FALL            | A    | 100 a | 100 a | 100 a | 100 a |
| 4 WEEDMASTER                  | 1.5 pt/a        |                 | 1.5 pt/a        | FALL            | A    |       |       |       |       |
| 4 COC                         | 1 % v/v         |                 | 1 % v/v         | FALL            | A    |       |       |       |       |
| 4 AUTHORITY MTZ               | 12 oz/a         |                 | 12 oz/a         | PRE             | B    |       |       |       |       |
| 4 SHARPEN                     | 1 oz/a          |                 | 1 oz/a          | PRE             | B    |       |       |       |       |
| 4 COC                         | 1 % v/v         |                 | 1 % v/v         | PRE             | B    |       |       |       |       |
| 4 N-PAK AMS                   | 2.5 % v/v       |                 | 2.5 % v/v       | PRE             | B    |       |       |       |       |
| 5 AUTHORITY XL                | 4 oz/a          |                 | 4 oz/a          | FALL            | A    | 100 a | 100 a | 100 a | 100 a |
| 5 WEEDMASTER                  | 1.5 pt/a        |                 | 1.5 pt/a        | FALL            | A    |       |       |       |       |
| 5 COC                         | 1 % v/v         |                 | 1 % v/v         | FALL            | A    |       |       |       |       |
| 5 AUTHORITY MTZ               | 12 oz/a         |                 | 12 oz/a         | PRE             | B    |       |       |       |       |
| 5 IGNITE 280 SL               | 32 oz/a         |                 | 32 oz/a         | PRE             | B    |       |       |       |       |
| 5 COC                         | 1 % v/v         |                 | 1 % v/v         | PRE             | B    |       |       |       |       |
| 5 N-PAK AMS                   | 2.5 % v/v       |                 | 2.5 % v/v       | PRE             | B    |       |       |       |       |
| 6 AUTHORITY XL                | 4 oz/a          |                 | 4 oz/a          | FALL            | A    | 100 a | 100 a | 100 a | 100 a |
| 6 WEEDMASTER                  | 1.5 pt/a        |                 | 1.5 pt/a        | FALL            | A    |       |       |       |       |
| 6 COC                         | 1 % v/v         |                 | 1 % v/v         | FALL            | A    |       |       |       |       |
| 6 AUTHORITY MTZ               | 12 oz/a         |                 | 12 oz/a         | PRE             | B    |       |       |       |       |
| 6 ROUNDUP POWERMAX            | 32 oz/a         |                 | 32 oz/a         | PRE             | B    |       |       |       |       |
| 6 COC                         | 1 % v/v         |                 | 1 % v/v         | PRE             | B    |       |       |       |       |
| 6 N-PAK AMS                   | 2.5 % v/v       |                 | 2.5 % v/v       | PRE             | B    |       |       |       |       |
| 7 AUTHORITY MTZ               | 12 oz/a         |                 | 12 oz/a         | FALL            | A    | 100 a | 98 ab | 100 a | 87 ab |
| 7 WEEDMASTER                  | 1.5 pt/a        |                 | 1.5 pt/a        | FALL            | A    |       |       |       |       |
| 7 COC                         | 1 % v/v         |                 | 1 % v/v         | FALL            | A    |       |       |       |       |
| 7 N-PAK AMS                   | 2.5 % v/v       |                 | 2.5 % v/v       | FALL            | A    |       |       |       |       |

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                     | STEME            | LAMPU           | CAPBP           | VERAR           |              |           |       |       |       |       |
| Pest Scientific Name          | Stellaria media  | Lamium purpure> | Capsella bursa> | Veronica arven> |              |           |       |       |       |       |
| Pest Name                     | Common chickwe>  | Purple deadnet> | Shepherd's pur> | Corn speedwell  |              |           |       |       |       |       |
| 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               |              |           |       |       |       |       |
| Rating Timing                 | AT PLANT         | AT PLANT        | AT PLANT        | AT PLANT        |              |           |       |       |       |       |
| Days After First/Last Applic. | 165 165          | 165 165         | 165 165         | 165 165         |              |           |       |       |       |       |
| Trt-Eval Interval             | 165 DA-A         | 165 DA-A        | 165 DA-A        | 165 DA-A        |              |           |       |       |       |       |
| Plant-Eval Interval           | 0 DP-1           | 0 DP-1          | 0 DP-1          | 0 DP-1          |              |           |       |       |       |       |
| Days After Emergence          | -9 DE-1          | -9 DE-1         | -9 DE-1         | -9 DE-1         |              |           |       |       |       |       |
| Number of Decimals            | 0                | 0               | 0               | 0               |              |           |       |       |       |       |
| Trt No.                       | Treatment Name   | Rate            | Other Rate      | Other Rate      | Growth Stage | Appl Code | 1     | 2     | 3     | 4     |
| 7                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a          |                 | PRE          | B         |       |       |       |       |
| 7                             | SHARPEN          | 1 oz/a          | 1 oz/a          |                 | PRE          | B         |       |       |       |       |
| 7                             | COC              | 1 % v/v         | 1 % v/v         |                 | PRE          | B         |       |       |       |       |
| 7                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                 | PRE          | B         |       |       |       |       |
| 8                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a         |                 | FALL         | A         | 100 a | 97 b  | 100 a | 93 ab |
| 8                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a        |                 | FALL         | A         |       |       |       |       |
| 8                             | COC              | 1 % v/v         | 1 % v/v         |                 | FALL         | A         |       |       |       |       |
| 8                             | N-PAK AMS        | 1 % v/v         | 1 % v/v         |                 | FALL         | A         |       |       |       |       |
| 8                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a          |                 | PRE          | B         |       |       |       |       |
| 8                             | ROUNDUP POWERMAX | 32 oz/a         | 32 oz/a         |                 | PRE          | B         |       |       |       |       |
| 8                             | COC              | 1 % v/v         | 1 % v/v         |                 | PRE          | B         |       |       |       |       |
| 8                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                 | PRE          | B         |       |       |       |       |
| 9                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a         |                 | FALL         | A         | 100 a | 99 ab | 100 a | 95 a  |
| 9                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a        |                 | FALL         | A         |       |       |       |       |
| 9                             | COC              | 1 % v/v         | 1 % v/v         |                 | FALL         | A         |       |       |       |       |
| 9                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                 | FALL         | A         |       |       |       |       |
| 9                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a          |                 | PRE          | B         |       |       |       |       |
| 9                             | IGNITE 280 SL    | 32 oz/a         | 32 oz/a         |                 | PRE          | B         |       |       |       |       |
| 9                             | COC              | 1 % v/v         | 1 % v/v         |                 | PRE          | B         |       |       |       |       |
| 9                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                 | PRE          | B         |       |       |       |       |
| 10                            | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a         |                 | FALL         | A         | 100 a | 98 ab | 100 a | 73 b  |
| 10                            | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a        |                 | FALL         | A         |       |       |       |       |
| 10                            | COC              | 1 % v/v         | 1 % v/v         |                 | FALL         | A         |       |       |       |       |
| 10                            | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                 | FALL         | A         |       |       |       |       |
| 10                            | AUTHORITY XL     | 4 oz/a          | 4 oz/a          |                 | PRE          | B         |       |       |       |       |
| 10                            | GRAMOXONE INTEON | 2.5 pt/a        | 2.5 pt/a        |                 | PRE          | B         |       |       |       |       |
| 10                            | BUTYRAC 200      | 12 oz/a         | 12 oz/a         |                 | PRE          | B         |       |       |       |       |
| 10                            | COC              | 1 % v/v         | 1 % v/v         |                 | PRE          | B         |       |       |       |       |
| 10                            | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                 | PRE          | B         |       |       |       |       |
| LSD (P=.05)                   |                  |                 |                 |                 |              |           | 0.0   | 2.9   | 0.0   | 20.1  |
| Standard Deviation            |                  |                 |                 |                 |              |           | 0.0   | 1.7   | 0.0   | 11.7  |
| CV                            |                  |                 |                 |                 |              |           | 0.0   | 1.89  | 0.0   | 13.8  |

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| Pest Type                     | W Weed           | W Weed          | W Weed             | W Weed           |              |           |       |       |       |       |
|-------------------------------|------------------|-----------------|--------------------|------------------|--------------|-----------|-------|-------|-------|-------|
| Pest Code                     | ERYRE            | TAROF           | ERICA              | AMBTR            |              |           |       |       |       |       |
| Pest Scientific Name          | Erysimum repan>  | Taraxacum offi> | Conyza canad>      | Ambrosia trifi>  |              |           |       |       |       |       |
| Pest Name                     | Bushy wallflow>  | Common dandel>  | Canada<br>horsewe> | Giant<br>ragweed |              |           |       |       |       |       |
| 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                |              |           |       |       |       |       |
| Rating Timing                 | AT PLANT         | AT PLANT        | AT PLANT           | AT PLANT         |              |           |       |       |       |       |
| Days After First/Last Applic. | 165 165          | 165 165         | 165 165            | 165 165          |              |           |       |       |       |       |
| Trt-Eval Interval             | 165 DA-A         | 165 DA-A        | 165 DA-A           | 165 DA-A         |              |           |       |       |       |       |
| Plant-Eval Interval           | 0 DP-1           | 0 DP-1          | 0 DP-1             | 0 DP-1           |              |           |       |       |       |       |
| Days After Emergence          | -9 DE-1          | -9 DE-1         | -9 DE-1            | -9 DE-1          |              |           |       |       |       |       |
| Number of Decimals            | 0                | 0               | 0                  | 0                |              |           |       |       |       |       |
| Trt No.                       | Treatment Name   | Rate            | Other Rate         | Other Rate       | Growth Stage | Appl Code | 5     | 6     | 7     | 8     |
| 1                             | UNTREATED        |                 |                    |                  |              |           | 0 b   | 0 c   | 0 c   | 0 c   |
| 2                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a             |                  | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 2                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a           |                  | FALL         | A         |       |       |       |       |
| 2                             | COC              | 1 % v/v         | 1 % v/v            |                  | FALL         | A         |       |       |       |       |
| 2                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a            |                  | PRE          | B         |       |       |       |       |
| 2                             | GRAMOXONE INTEON | 2.5 pt/a        | 2.5 pt/a           |                  | PRE          | B         |       |       |       |       |
| 2                             | COC              | 1 % v/v         | 1 % v/v            |                  | PRE          | B         |       |       |       |       |
| 2                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v          |                  | PRE          | B         |       |       |       |       |
| 3                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a             |                  | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 3                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a           |                  | FALL         | A         |       |       |       |       |
| 3                             | COC              | 1 % v/v         | 1 % v/v            |                  | FALL         | A         |       |       |       |       |
| 3                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a            |                  | PRE          | B         |       |       |       |       |
| 3                             | GRAMOXONE INTEON | 2.5 pt/a        | 2.5 pt/a           |                  | PRE          | B         |       |       |       |       |
| 3                             | BUTYRAC 200      | 12 oz/a         | 12 oz/a            |                  | PRE          | B         |       |       |       |       |
| 3                             | COC              | 1 % v/v         | 1 % v/v            |                  | PRE          | B         |       |       |       |       |
| 3                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v          |                  | PRE          | B         |       |       |       |       |
| 4                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a             |                  | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 4                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a           |                  | FALL         | A         |       |       |       |       |
| 4                             | COC              | 1 % v/v         | 1 % v/v            |                  | FALL         | A         |       |       |       |       |
| 4                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a            |                  | PRE          | B         |       |       |       |       |
| 4                             | SHARPEN          | 1 oz/a          | 1 oz/a             |                  | PRE          | B         |       |       |       |       |
| 4                             | COC              | 1 % v/v         | 1 % v/v            |                  | PRE          | B         |       |       |       |       |
| 4                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v          |                  | PRE          | B         |       |       |       |       |
| 5                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a             |                  | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 5                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a           |                  | FALL         | A         |       |       |       |       |
| 5                             | COC              | 1 % v/v         | 1 % v/v            |                  | FALL         | A         |       |       |       |       |
| 5                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a            |                  | PRE          | B         |       |       |       |       |
| 5                             | IGNITE 280 SL    | 32 oz/a         | 32 oz/a            |                  | PRE          | B         |       |       |       |       |
| 5                             | COC              | 1 % v/v         | 1 % v/v            |                  | PRE          | B         |       |       |       |       |
| 5                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v          |                  | PRE          | B         |       |       |       |       |
| 6                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a             |                  | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 6                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a           |                  | FALL         | A         |       |       |       |       |
| 6                             | COC              | 1 % v/v         | 1 % v/v            |                  | FALL         | A         |       |       |       |       |
| 6                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a            |                  | PRE          | B         |       |       |       |       |
| 6                             | ROUNDUP POWERMAX | 32 oz/a         | 32 oz/a            |                  | PRE          | B         |       |       |       |       |
| 6                             | COC              | 1 % v/v         | 1 % v/v            |                  | PRE          | B         |       |       |       |       |
| 6                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v          |                  | PRE          | B         |       |       |       |       |
| 7                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a            |                  | FALL         | A         | 100 a | 100 a | 95 ab | 95 b  |
| 7                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a           |                  | FALL         | A         |       |       |       |       |
| 7                             | COC              | 1 % v/v         | 1 % v/v            |                  | FALL         | A         |       |       |       |       |
| 7                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v          |                  | FALL         | A         |       |       |       |       |

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| Pest Type                     | W Weed          | W Weed          | W Weed             | W Weed           |      |       |       |       |       |
|-------------------------------|-----------------|-----------------|--------------------|------------------|------|-------|-------|-------|-------|
| Pest Code                     | ERYRE           | TAROF           | ERICA              | AMBTR            |      |       |       |       |       |
| Pest Scientific Name          | Erysimum repan> | Taraxacum offi> | Conyza canad>      | Ambrosia trifi>  |      |       |       |       |       |
| Pest Name                     | Bushy wallflow> | Common dandel>  | Canada<br>horsewe> | Giant<br>ragweed |      |       |       |       |       |
| 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                |      |       |       |       |       |
| Rating Timing                 | AT PLANT        | AT PLANT        | AT PLANT           | AT PLANT         |      |       |       |       |       |
| Days After First/Last Applic. | 165 165         | 165 165         | 165 165            | 165 165          |      |       |       |       |       |
| Trt-Eval Interval             | 165 DA-A        | 165 DA-A        | 165 DA-A           | 165 DA-A         |      |       |       |       |       |
| Plant-Eval Interval           | 0 DP-1          | 0 DP-1          | 0 DP-1             | 0 DP-1           |      |       |       |       |       |
| Days After Emergence          | -9 DE-1         | -9 DE-1         | -9 DE-1            | -9 DE-1          |      |       |       |       |       |
| Number of Decimals            | 0               | 0               | 0                  | 0                |      |       |       |       |       |
| Trt Treatment                 | Rate            | Other           | Other              | Growth           | Appl | 5     | 6     | 7     | 8     |
| No. Name                      | Rate Unit       | Rate            | Rate Unit          | Stage            | Code |       |       |       |       |
| 7 AUTHORITY XL                | 4 oz/a          | 4 oz/a          |                    | PRE              | B    |       |       |       |       |
| 7 SHARPEN                     | 1 oz/a          | 1 oz/a          |                    | PRE              | B    |       |       |       |       |
| 7 COC                         | 1 % v/v         | 1 % v/v         |                    | PRE              | B    |       |       |       |       |
| 7 N-PAK AMS                   | 2.5 % v/v       | 2.5 % v/v       |                    | PRE              | B    |       |       |       |       |
| 8 AUTHORITY MTZ               | 12 oz/a         | 12 oz/a         |                    | FALL             | A    | 100 a | 95 b  | 93 ab | 100 a |
| 8 WEEDMASTER                  | 1.5 pt/a        | 1.5 pt/a        |                    | FALL             | A    |       |       |       |       |
| 8 COC                         | 1 % v/v         | 1 % v/v         |                    | FALL             | A    |       |       |       |       |
| 8 N-PAK AMS                   | 1 % v/v         | 1 % v/v         |                    | FALL             | A    |       |       |       |       |
| 8 AUTHORITY XL                | 4 oz/a          | 4 oz/a          |                    | PRE              | B    |       |       |       |       |
| 8 ROUNDUP POWERMAX            | 32 oz/a         | 32 oz/a         |                    | PRE              | B    |       |       |       |       |
| 8 COC                         | 1 % v/v         | 1 % v/v         |                    | PRE              | B    |       |       |       |       |
| 8 N-PAK AMS                   | 2.5 % v/v       | 2.5 % v/v       |                    | PRE              | B    |       |       |       |       |
| 9 AUTHORITY MTZ               | 12 oz/a         | 12 oz/a         |                    | FALL             | A    | 100 a | 100 a | 90 b  | 100 a |
| 9 WEEDMASTER                  | 1.5 pt/a        | 1.5 pt/a        |                    | FALL             | A    |       |       |       |       |
| 9 COC                         | 1 % v/v         | 1 % v/v         |                    | FALL             | A    |       |       |       |       |
| 9 N-PAK AMS                   | 2.5 % v/v       | 2.5 % v/v       |                    | FALL             | A    |       |       |       |       |
| 9 AUTHORITY XL                | 4 oz/a          | 4 oz/a          |                    | PRE              | B    |       |       |       |       |
| 9 IGNITE 280 SL               | 32 oz/a         | 32 oz/a         |                    | PRE              | B    |       |       |       |       |
| 9 COC                         | 1 % v/v         | 1 % v/v         |                    | PRE              | B    |       |       |       |       |
| 9 N-PAK AMS                   | 2.5 % v/v       | 2.5 % v/v       |                    | PRE              | B    |       |       |       |       |
| 10 AUTHORITY MTZ              | 12 oz/a         | 12 oz/a         |                    | FALL             | A    | 100 a | 100 a | 100 a | 100 a |
| 10 WEEDMASTER                 | 1.5 pt/a        | 1.5 pt/a        |                    | FALL             | A    |       |       |       |       |
| 10 COC                        | 1 % v/v         | 1 % v/v         |                    | FALL             | A    |       |       |       |       |
| 10 N-PAK AMS                  | 2.5 % v/v       | 2.5 % v/v       |                    | FALL             | A    |       |       |       |       |
| 10 AUTHORITY XL               | 4 oz/a          | 4 oz/a          |                    | PRE              | B    |       |       |       |       |
| 10 GRAMOXONE INTEON           | 2.5 pt/a        | 2.5 pt/a        |                    | PRE              | B    |       |       |       |       |
| 10 BUTYRAC 200                | 12 oz/a         | 12 oz/a         |                    | PRE              | B    |       |       |       |       |
| 10 COC                        | 1 % v/v         | 1 % v/v         |                    | PRE              | B    |       |       |       |       |
| 10 N-PAK AMS                  | 2.5 % v/v       | 2.5 % v/v       |                    | PRE              | B    |       |       |       |       |
| LSD (P=.05)                   |                 |                 |                    |                  |      | 0.0   | 4.7   | 9.0   | 2.8   |
| Standard Deviation            |                 |                 |                    |                  |      | 0.0   | 2.7   | 5.2   | 1.6   |
| CV                            |                 |                 |                    |                  |      | 0.0   | 3.06  | 5.97  | 1.8   |

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| Pest Type                     | W Weed           | W Weed          | W Weed          | W Weed          |              |           |       |       |       |       |
|-------------------------------|------------------|-----------------|-----------------|-----------------|--------------|-----------|-------|-------|-------|-------|
| Pest Code                     | LAMAM            | STEME           | LAMPU           | CAPBP           |              |           |       |       |       |       |
| Pest Scientific Name          | Lamium amplexi>  | Stellaria media | Lamium purpure> | Capsella bursa> |              |           |       |       |       |       |
| Pest Name                     | Henbit           | Common chickwe> | Purple deadnet> | Shepherd's pur> |              |           |       |       |       |       |
| Rating Date                   | Apr-30-2012      | May-14-2012     | May-14-2012     | May-14-2012     |              |           |       |       |       |       |
| Rating Type                   | CONTRO           | CONTRO          | CONTRO          | CONTRO          |              |           |       |       |       |       |
| Rating Unit                   | %                | %               | %               | %               |              |           |       |       |       |       |
| Number of Subsamples          | 1                | 1               | 1               | 1               |              |           |       |       |       |       |
| Rating Timing                 | AT PLANT         |                 |                 |                 |              |           |       |       |       |       |
| Days After First/Last Applic. | 165 165          | 179 12          | 179 12          | 179 12          |              |           |       |       |       |       |
| Trt-Eval Interval             | 165 DA-A         | 12 DA-B         | 12 DA-B         | 12 DA-B         |              |           |       |       |       |       |
| Plant-Eval Interval           | 0 DP-1           | 14 DP-1         | 14 DP-1         | 14 DP-1         |              |           |       |       |       |       |
| Days After Emergence          | -9 DE-1          | 5 DE-1          | 5 DE-1          | 5 DE-1          |              |           |       |       |       |       |
| Number of Decimals            | 0                | 0               | 0               | 0               |              |           |       |       |       |       |
| Trt No.                       | Treatment Name   | Rate Rate Unit  | Other Rate      | Other Rate Unit | Growth Stage | Appl Code | 9     | 10    | 11    | 12    |
| 1                             | UNTREATED        |                 |                 |                 |              |           | 0 b   | 0 b   | 0 b   | 0 b   |
| 2                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a          |                 | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 2                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a        |                 | FALL         | A         |       |       |       |       |
| 2                             | COC              | 1 % v/v         | 1 % v/v         |                 | FALL         | A         |       |       |       |       |
| 2                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a         |                 | PRE          | B         |       |       |       |       |
| 2                             | GRAMOXONE INTEON | 2.5 pt/a        | 2.5 pt/a        |                 | PRE          | B         |       |       |       |       |
| 2                             | COC              | 1 % v/v         | 1 % v/v         |                 | PRE          | B         |       |       |       |       |
| 2                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                 | PRE          | B         |       |       |       |       |
| 3                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a          |                 | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 3                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a        |                 | FALL         | A         |       |       |       |       |
| 3                             | COC              | 1 % v/v         | 1 % v/v         |                 | FALL         | A         |       |       |       |       |
| 3                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a         |                 | PRE          | B         |       |       |       |       |
| 3                             | GRAMOXONE INTEON | 2.5 pt/a        | 2.5 pt/a        |                 | PRE          | B         |       |       |       |       |
| 3                             | BUTYRAC 200      | 12 oz/a         | 12 oz/a         |                 | PRE          | B         |       |       |       |       |
| 3                             | COC              | 1 % v/v         | 1 % v/v         |                 | PRE          | B         |       |       |       |       |
| 3                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                 | PRE          | B         |       |       |       |       |
| 4                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a          |                 | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 4                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a        |                 | FALL         | A         |       |       |       |       |
| 4                             | COC              | 1 % v/v         | 1 % v/v         |                 | FALL         | A         |       |       |       |       |
| 4                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a         |                 | PRE          | B         |       |       |       |       |
| 4                             | SHARPEN          | 1 oz/a          | 1 oz/a          |                 | PRE          | B         |       |       |       |       |
| 4                             | COC              | 1 % v/v         | 1 % v/v         |                 | PRE          | B         |       |       |       |       |
| 4                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                 | PRE          | B         |       |       |       |       |
| 5                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a          |                 | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 5                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a        |                 | FALL         | A         |       |       |       |       |
| 5                             | COC              | 1 % v/v         | 1 % v/v         |                 | FALL         | A         |       |       |       |       |
| 5                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a         |                 | PRE          | B         |       |       |       |       |
| 5                             | IGNITE 280 SL    | 32 oz/a         | 32 oz/a         |                 | PRE          | B         |       |       |       |       |
| 5                             | COC              | 1 % v/v         | 1 % v/v         |                 | PRE          | B         |       |       |       |       |
| 5                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                 | PRE          | B         |       |       |       |       |
| 6                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a          |                 | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 6                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a        |                 | FALL         | A         |       |       |       |       |
| 6                             | COC              | 1 % v/v         | 1 % v/v         |                 | FALL         | A         |       |       |       |       |
| 6                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a         |                 | PRE          | B         |       |       |       |       |
| 6                             | ROUNDUP POWERMAX | 32 oz/a         | 32 oz/a         |                 | PRE          | B         |       |       |       |       |
| 6                             | COC              | 1 % v/v         | 1 % v/v         |                 | PRE          | B         |       |       |       |       |
| 6                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                 | PRE          | B         |       |       |       |       |
| 7                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a         |                 | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 7                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a        |                 | FALL         | A         |       |       |       |       |
| 7                             | COC              | 1 % v/v         | 1 % v/v         |                 | FALL         | A         |       |       |       |       |
| 7                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                 | FALL         | A         |       |       |       |       |

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| Pest Type                     | W Weed          | W Weed          | W Weed          | W Weed          |      |       |       |       |       |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|------|-------|-------|-------|-------|
| Pest Code                     | LAMAM           | STEME           | LAMPU           | CAPBP           |      |       |       |       |       |
| Pest Scientific Name          | Lamium amplexi> | Stellaria media | Lamium purpure> | Capsella bursa> |      |       |       |       |       |
| Pest Name                     | Henbit          | Common chickwe> | Purple deadnet> | Shepherd's pur> |      |       |       |       |       |
| Rating Date                   | Apr-30-2012     | May-14-2012     | May-14-2012     | May-14-2012     |      |       |       |       |       |
| Rating Type                   | CONTRO          | CONTRO          | CONTRO          | CONTRO          |      |       |       |       |       |
| Rating Unit                   | %               | %               | %               | %               |      |       |       |       |       |
| Number of Subsamples          | 1               | 1               | 1               | 1               |      |       |       |       |       |
| Rating Timing                 | AT PLANT        |                 |                 |                 |      |       |       |       |       |
| Days After First/Last Applic. | 165 165         | 179 12          | 179 12          | 179 12          |      |       |       |       |       |
| Trt-Eval Interval             | 165 DA-A        | 12 DA-B         | 12 DA-B         | 12 DA-B         |      |       |       |       |       |
| Plant-Eval Interval           | 0 DP-1          | 14 DP-1         | 14 DP-1         | 14 DP-1         |      |       |       |       |       |
| Days After Emergence          | -9 DE-1         | 5 DE-1          | 5 DE-1          | 5 DE-1          |      |       |       |       |       |
| Number of Decimals            | 0               | 0               | 0               | 0               |      |       |       |       |       |
| Trt Treatment                 | Rate            | Other           | Other           | Growth          | Appl | 9     | 10    | 11    | 12    |
| No. Name                      | Rate Unit       | Rate            | Rate Unit       | Stage           | Code |       |       |       |       |
| 7 AUTHORITY XL                | 4 oz/a          | 4 oz/a          |                 | PRE             | B    |       |       |       |       |
| 7 SHARPEN                     | 1 oz/a          | 1 oz/a          |                 | PRE             | B    |       |       |       |       |
| 7 COC                         | 1 % v/v         | 1 % v/v         |                 | PRE             | B    |       |       |       |       |
| 7 N-PAK AMS                   | 2.5 % v/v       | 2.5 % v/v       |                 | PRE             | B    |       |       |       |       |
| 8 AUTHORITY MTZ               | 12 oz/a         | 12 oz/a         |                 | FALL            | A    | 100 a | 100 a | 100 a | 100 a |
| 8 WEEDMASTER                  | 1.5 pt/a        | 1.5 pt/a        |                 | FALL            | A    |       |       |       |       |
| 8 COC                         | 1 % v/v         | 1 % v/v         |                 | FALL            | A    |       |       |       |       |
| 8 N-PAK AMS                   | 1 % v/v         | 1 % v/v         |                 | FALL            | A    |       |       |       |       |
| 8 AUTHORITY XL                | 4 oz/a          | 4 oz/a          |                 | PRE             | B    |       |       |       |       |
| 8 ROUNDUP POWERMAX            | 32 oz/a         | 32 oz/a         |                 | PRE             | B    |       |       |       |       |
| 8 COC                         | 1 % v/v         | 1 % v/v         |                 | PRE             | B    |       |       |       |       |
| 8 N-PAK AMS                   | 2.5 % v/v       | 2.5 % v/v       |                 | PRE             | B    |       |       |       |       |
| 9 AUTHORITY MTZ               | 12 oz/a         | 12 oz/a         |                 | FALL            | A    | 100 a | 100 a | 100 a | 100 a |
| 9 WEEDMASTER                  | 1.5 pt/a        | 1.5 pt/a        |                 | FALL            | A    |       |       |       |       |
| 9 COC                         | 1 % v/v         | 1 % v/v         |                 | FALL            | A    |       |       |       |       |
| 9 N-PAK AMS                   | 2.5 % v/v       | 2.5 % v/v       |                 | FALL            | A    |       |       |       |       |
| 9 AUTHORITY XL                | 4 oz/a          | 4 oz/a          |                 | PRE             | B    |       |       |       |       |
| 9 IGNITE 280 SL               | 32 oz/a         | 32 oz/a         |                 | PRE             | B    |       |       |       |       |
| 9 COC                         | 1 % v/v         | 1 % v/v         |                 | PRE             | B    |       |       |       |       |
| 9 N-PAK AMS                   | 2.5 % v/v       | 2.5 % v/v       |                 | PRE             | B    |       |       |       |       |
| 10 AUTHORITY MTZ              | 12 oz/a         | 12 oz/a         |                 | FALL            | A    | 100 a | 100 a | 100 a | 100 a |
| 10 WEEDMASTER                 | 1.5 pt/a        | 1.5 pt/a        |                 | FALL            | A    |       |       |       |       |
| 10 COC                        | 1 % v/v         | 1 % v/v         |                 | FALL            | A    |       |       |       |       |
| 10 N-PAK AMS                  | 2.5 % v/v       | 2.5 % v/v       |                 | FALL            | A    |       |       |       |       |
| 10 AUTHORITY XL               | 4 oz/a          | 4 oz/a          |                 | PRE             | B    |       |       |       |       |
| 10 GRAMOXONE INTEON           | 2.5 pt/a        | 2.5 pt/a        |                 | PRE             | B    |       |       |       |       |
| 10 BUTYRAC 200                | 12 oz/a         | 12 oz/a         |                 | PRE             | B    |       |       |       |       |
| 10 COC                        | 1 % v/v         | 1 % v/v         |                 | PRE             | B    |       |       |       |       |
| 10 N-PAK AMS                  | 2.5 % v/v       | 2.5 % v/v       |                 | PRE             | B    |       |       |       |       |
| LSD (P=.05)                   |                 |                 |                 |                 |      | 0.0   | 0.0   | 0.0   | 0.0   |
| Standard Deviation            |                 |                 |                 |                 |      | 0.0   | 0.0   | 0.0   | 0.0   |
| CV                            |                 |                 |                 |                 |      | 0.0   | 0.0   | 0.0   | 0.0   |



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| Pest Type                     | W Weed           | W Weed          | W Weed          | W Weed             |              |           |       |       |       |       |
|-------------------------------|------------------|-----------------|-----------------|--------------------|--------------|-----------|-------|-------|-------|-------|
| Pest Code                     | VERAR            | ERYRE           | TAROF           | ERICA              |              |           |       |       |       |       |
| Pest Scientific Name          | Veronica arven>  | Erysimum repa>  | Taraxacum offi> | Conyza canaden>    |              |           |       |       |       |       |
| Pest Name                     | Corn speedwell   | Bushy wallflow> | Common dandel>  | Canada<br>horsewe> |              |           |       |       |       |       |
| Rating Date                   | May-14-2012      | May-14-2012     | May-14-2012     | May-14-2012        |              |           |       |       |       |       |
| Rating Type                   | CONTRO           | CONTRO          | CONTRO          | CONTRO             |              |           |       |       |       |       |
| Rating Unit                   | %                | %               | %               | %                  |              |           |       |       |       |       |
| Number of Subsamples          | 1                | 1               | 1               | 1                  |              |           |       |       |       |       |
| Rating Timing                 |                  |                 |                 |                    |              |           |       |       |       |       |
| Days After First/Last Applic. | 179 12           | 179 12          | 179 12          | 179 12             |              |           |       |       |       |       |
| Trt-Eval Interval             | 12 DA-B          | 12 DA-B         | 12 DA-B         | 12 DA-B            |              |           |       |       |       |       |
| Plant-Eval Interval           | 14 DP-1          | 14 DP-1         | 14 DP-1         | 14 DP-1            |              |           |       |       |       |       |
| Days After Emergence          | 5 DE-1           | 5 DE-1          | 5 DE-1          | 5 DE-1             |              |           |       |       |       |       |
| Number of Decimals            | 0                | 0               | 0               | 0                  |              |           |       |       |       |       |
| Trt No.                       | Treatment Name   | Rate            | Other Rate      | Other Rate         | Growth Stage | Appl Code | 13    | 14    | 15    | 16    |
| 1                             | UNTREATED        |                 |                 |                    |              |           | 0 c   | 0 b   | 0 b   | 0 b   |
| 2                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a          |                    | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 2                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a        |                    | FALL         | A         |       |       |       |       |
| 2                             | COC              | 1 % v/v         | 1 % v/v         |                    | FALL         | A         |       |       |       |       |
| 2                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a         |                    | PRE          | B         |       |       |       |       |
| 2                             | GRAMOXONE INTEON | 2.5 pt/a        | 2.5 pt/a        |                    | PRE          | B         |       |       |       |       |
| 2                             | COC              | 1 % v/v         | 1 % v/v         |                    | PRE          | B         |       |       |       |       |
| 2                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                    | PRE          | B         |       |       |       |       |
| 3                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a          |                    | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 3                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a        |                    | FALL         | A         |       |       |       |       |
| 3                             | COC              | 1 % v/v         | 1 % v/v         |                    | FALL         | A         |       |       |       |       |
| 3                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a         |                    | PRE          | B         |       |       |       |       |
| 3                             | GRAMOXONE INTEON | 2.5 pt/a        | 2.5 pt/a        |                    | PRE          | B         |       |       |       |       |
| 3                             | BUTYRAC 200      | 12 oz/a         | 12 oz/a         |                    | PRE          | B         |       |       |       |       |
| 3                             | COC              | 1 % v/v         | 1 % v/v         |                    | PRE          | B         |       |       |       |       |
| 3                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                    | PRE          | B         |       |       |       |       |
| 4                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a          |                    | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 4                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a        |                    | FALL         | A         |       |       |       |       |
| 4                             | COC              | 1 % v/v         | 1 % v/v         |                    | FALL         | A         |       |       |       |       |
| 4                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a         |                    | PRE          | B         |       |       |       |       |
| 4                             | SHARPEN          | 1 oz/a          | 1 oz/a          |                    | PRE          | B         |       |       |       |       |
| 4                             | COC              | 1 % v/v         | 1 % v/v         |                    | PRE          | B         |       |       |       |       |
| 4                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                    | PRE          | B         |       |       |       |       |
| 5                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a          |                    | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 5                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a        |                    | FALL         | A         |       |       |       |       |
| 5                             | COC              | 1 % v/v         | 1 % v/v         |                    | FALL         | A         |       |       |       |       |
| 5                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a         |                    | PRE          | B         |       |       |       |       |
| 5                             | IGNITE 280 SL    | 32 oz/a         | 32 oz/a         |                    | PRE          | B         |       |       |       |       |
| 5                             | COC              | 1 % v/v         | 1 % v/v         |                    | PRE          | B         |       |       |       |       |
| 5                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                    | PRE          | B         |       |       |       |       |
| 6                             | AUTHORITY XL     | 4 oz/a          | 4 oz/a          |                    | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 6                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a        |                    | FALL         | A         |       |       |       |       |
| 6                             | COC              | 1 % v/v         | 1 % v/v         |                    | FALL         | A         |       |       |       |       |
| 6                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a         |                    | PRE          | B         |       |       |       |       |
| 6                             | ROUNDUP POWERMAX | 32 oz/a         | 32 oz/a         |                    | PRE          | B         |       |       |       |       |
| 6                             | COC              | 1 % v/v         | 1 % v/v         |                    | PRE          | B         |       |       |       |       |
| 6                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                    | PRE          | B         |       |       |       |       |
| 7                             | AUTHORITY MTZ    | 12 oz/a         | 12 oz/a         |                    | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 7                             | WEEDMASTER       | 1.5 pt/a        | 1.5 pt/a        |                    | FALL         | A         |       |       |       |       |
| 7                             | COC              | 1 % v/v         | 1 % v/v         |                    | FALL         | A         |       |       |       |       |
| 7                             | N-PAK AMS        | 2.5 % v/v       | 2.5 % v/v       |                    | FALL         | A         |       |       |       |       |

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|                               |                 |                 |                 |                    |
|-------------------------------|-----------------|-----------------|-----------------|--------------------|
| Pest Type                     | W Weed          | W Weed          | W Weed          | W Weed             |
| Pest Code                     | VERAR           | ERYRE           | TAROF           | ERICA              |
| Pest Scientific Name          | Veronica arven> | Erysimum repa>  | Taraxacum offi> | Conyza canaden>    |
| Pest Name                     | Corn speedwell  | Bushy wallflow> | Common dandel>  | Canada<br>horsewe> |
| Rating Date                   | May-14-2012     | May-14-2012     | May-14-2012     | May-14-2012        |
| Rating Type                   | CONTRO          | CONTRO          | CONTRO          | CONTRO             |
| Rating Unit                   | %               | %               | %               | %                  |
| Number of Subsamples          | 1               | 1               | 1               | 1                  |
| Rating Timing                 |                 |                 |                 |                    |
| Days After First/Last Applic. | 179 12          | 179 12          | 179 12          | 179 12             |
| Trt-Eval Interval             | 12 DA-B         | 12 DA-B         | 12 DA-B         | 12 DA-B            |
| Plant-Eval Interval           | 14 DP-1         | 14 DP-1         | 14 DP-1         | 14 DP-1            |
| Days After Emergence          | 5 DE-1          | 5 DE-1          | 5 DE-1          | 5 DE-1             |
| Number of Decimals            | 0               | 0               | 0               | 0                  |

| Trt No.            | Treatment Name   | Rate      | Other Rate | Other Rate | Growth Stage | Appl Code | 13    | 14    | 15    | 16    |
|--------------------|------------------|-----------|------------|------------|--------------|-----------|-------|-------|-------|-------|
| 7                  | AUTHORITY XL     | 4 oz/a    | 4 oz/a     |            | PRE          | B         |       |       |       |       |
| 7                  | SHARPEN          | 1 oz/a    | 1 oz/a     |            | PRE          | B         |       |       |       |       |
| 7                  | COC              | 1 % v/v   | 1 % v/v    |            | PRE          | B         |       |       |       |       |
| 7                  | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | PRE          | B         |       |       |       |       |
| 8                  | AUTHORITY MTZ    | 12 oz/a   | 12 oz/a    |            | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 8                  | WEEDMASTER       | 1.5 pt/a  | 1.5 pt/a   |            | FALL         | A         |       |       |       |       |
| 8                  | COC              | 1 % v/v   | 1 % v/v    |            | FALL         | A         |       |       |       |       |
| 8                  | N-PAK AMS        | 1 % v/v   | 1 % v/v    |            | FALL         | A         |       |       |       |       |
| 8                  | AUTHORITY XL     | 4 oz/a    | 4 oz/a     |            | PRE          | B         |       |       |       |       |
| 8                  | ROUNDUP POWERMAX | 32 oz/a   | 32 oz/a    |            | PRE          | B         |       |       |       |       |
| 8                  | COC              | 1 % v/v   | 1 % v/v    |            | PRE          | B         |       |       |       |       |
| 8                  | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | PRE          | B         |       |       |       |       |
| 9                  | AUTHORITY MTZ    | 12 oz/a   | 12 oz/a    |            | FALL         | A         | 100 a | 100 a | 100 a | 100 a |
| 9                  | WEEDMASTER       | 1.5 pt/a  | 1.5 pt/a   |            | FALL         | A         |       |       |       |       |
| 9                  | COC              | 1 % v/v   | 1 % v/v    |            | FALL         | A         |       |       |       |       |
| 9                  | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | FALL         | A         |       |       |       |       |
| 9                  | AUTHORITY XL     | 4 oz/a    | 4 oz/a     |            | PRE          | B         |       |       |       |       |
| 9                  | IGNITE 280 SL    | 32 oz/a   | 32 oz/a    |            | PRE          | B         |       |       |       |       |
| 9                  | COC              | 1 % v/v   | 1 % v/v    |            | PRE          | B         |       |       |       |       |
| 9                  | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | PRE          | B         |       |       |       |       |
| 10                 | AUTHORITY MTZ    | 12 oz/a   | 12 oz/a    |            | FALL         | A         | 98 b  | 100 a | 100 a | 100 a |
| 10                 | WEEDMASTER       | 1.5 pt/a  | 1.5 pt/a   |            | FALL         | A         |       |       |       |       |
| 10                 | COC              | 1 % v/v   | 1 % v/v    |            | FALL         | A         |       |       |       |       |
| 10                 | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | FALL         | A         |       |       |       |       |
| 10                 | AUTHORITY XL     | 4 oz/a    | 4 oz/a     |            | PRE          | B         |       |       |       |       |
| 10                 | GRAMOXONE INTEON | 2.5 pt/a  | 2.5 pt/a   |            | PRE          | B         |       |       |       |       |
| 10                 | BUTYRAC 200      | 12 oz/a   | 12 oz/a    |            | PRE          | B         |       |       |       |       |
| 10                 | COC              | 1 % v/v   | 1 % v/v    |            | PRE          | B         |       |       |       |       |
| 10                 | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | PRE          | B         |       |       |       |       |
| LSD (P=.05)        |                  |           |            |            |              |           | 1.4   | 0.0   | 0.0   | 0.0   |
| Standard Deviation |                  |           |            |            |              |           | 0.8   | 0.0   | 0.0   | 0.0   |
| CV                 |                  |           |            |            |              |           | 0.89  | 0.0   | 0.0   | 0.0   |

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| Pest Type                     | W Weed           | W Weed              | W Weed          | W Weed            | W Weed           |           |      |       |      |       |       |
|-------------------------------|------------------|---------------------|-----------------|-------------------|------------------|-----------|------|-------|------|-------|-------|
| Pest Code                     | AMBTR            | LAMAM               | SETFA           | ERICA             | AMBTR            |           |      |       |      |       |       |
| Pest Scientific Name          | Ambrosia trifida | Lamium amplexicaule | Setaria faberii | Conyza canadensis | Ambrosia trifida |           |      |       |      |       |       |
| Pest Name                     | Giant ragweed    | Henbit              | Giant foxtail   | Canada horseweed  | Giant ragweed    |           |      |       |      |       |       |
| Rating Date                   | May-14-2012      | May-14-2012         | May-29-2012     | May-29-2012       | May-29-2012      |           |      |       |      |       |       |
| Rating Type                   | CONTRO           | CONTRO              | CONTRO          | CONTRO            | CONTRO           |           |      |       |      |       |       |
| Rating Unit                   | %                | %                   | %               | %                 | %                |           |      |       |      |       |       |
| Number of Subsamples          | 1                | 1                   | 1               | 1                 | 1                |           |      |       |      |       |       |
| Rating Timing                 |                  |                     |                 |                   |                  |           |      |       |      |       |       |
| Days After First/Last Applic. | 179 12           | 179 12              | 194 27          | 194 27            | 194 27           |           |      |       |      |       |       |
| Trt-Eval Interval             | 12 DA-B          | 12 DA-B             | 27 DA-B         | 27 DA-B           | 27 DA-B          |           |      |       |      |       |       |
| Plant-Eval Interval           | 14 DP-1          | 14 DP-1             | 29 DP-1         | 29 DP-1           | 29 DP-1          |           |      |       |      |       |       |
| Days After Emergence          | 5 DE-1           | 5 DE-1              | 20 DE-1         | 20 DE-1           | 20 DE-1          |           |      |       |      |       |       |
| Number of Decimals            | 0                | 0                   | 0               | 0                 | 0                |           |      |       |      |       |       |
| Trt No.                       | Treatment Name   | Rate                | Other Rate      | Other Rate        | Growth Stage     | Appl Code | 17   | 18    | 19   | 20    | 21    |
| 1                             | UNTREATED        |                     |                 |                   |                  |           | 0 b  | 0 b   | 0 b  | 0 c   | 0 c   |
| 2                             | AUTHORITY XL     | 4 oz/a              | 4 oz/a          |                   | FALL             | A         | 98 a | 100 a | 77 a | 100 a | 67 ab |
| 2                             | WEEDMASTER       | 1.5 pt/a            | 1.5 pt/a        |                   | FALL             | A         |      |       |      |       |       |
| 2                             | COC              | 1 % v/v             | 1 % v/v         |                   | FALL             | A         |      |       |      |       |       |
| 2                             | AUTHORITY MTZ    | 12 oz/a             | 12 oz/a         |                   | PRE              | B         |      |       |      |       |       |
| 2                             | GRAMOXONE INTEON | 2.5 pt/a            | 2.5 pt/a        |                   | PRE              | B         |      |       |      |       |       |
| 2                             | COC              | 1 % v/v             | 1 % v/v         |                   | PRE              | B         |      |       |      |       |       |
| 2                             | N-PAK AMS        | 2.5 % v/v           | 2.5 % v/v       |                   | PRE              | B         |      |       |      |       |       |
| 3                             | AUTHORITY XL     | 4 oz/a              | 4 oz/a          |                   | FALL             | A         | 95 a | 100 a | 80 a | 100 a | 68 ab |
| 3                             | WEEDMASTER       | 1.5 pt/a            | 1.5 pt/a        |                   | FALL             | A         |      |       |      |       |       |
| 3                             | COC              | 1 % v/v             | 1 % v/v         |                   | FALL             | A         |      |       |      |       |       |
| 3                             | AUTHORITY MTZ    | 12 oz/a             | 12 oz/a         |                   | PRE              | B         |      |       |      |       |       |
| 3                             | GRAMOXONE INTEON | 2.5 pt/a            | 2.5 pt/a        |                   | PRE              | B         |      |       |      |       |       |
| 3                             | BUTYRAC 200      | 12 oz/a             | 12 oz/a         |                   | PRE              | B         |      |       |      |       |       |
| 3                             | COC              | 1 % v/v             | 1 % v/v         |                   | PRE              | B         |      |       |      |       |       |
| 3                             | N-PAK AMS        | 2.5 % v/v           | 2.5 % v/v       |                   | PRE              | B         |      |       |      |       |       |
| 4                             | AUTHORITY XL     | 4 oz/a              | 4 oz/a          |                   | FALL             | A         | 93 a | 100 a | 68 a | 100 a | 60 b  |
| 4                             | WEEDMASTER       | 1.5 pt/a            | 1.5 pt/a        |                   | FALL             | A         |      |       |      |       |       |
| 4                             | COC              | 1 % v/v             | 1 % v/v         |                   | FALL             | A         |      |       |      |       |       |
| 4                             | AUTHORITY MTZ    | 12 oz/a             | 12 oz/a         |                   | PRE              | B         |      |       |      |       |       |
| 4                             | SHARPEN          | 1 oz/a              | 1 oz/a          |                   | PRE              | B         |      |       |      |       |       |
| 4                             | COC              | 1 % v/v             | 1 % v/v         |                   | PRE              | B         |      |       |      |       |       |
| 4                             | N-PAK AMS        | 2.5 % v/v           | 2.5 % v/v       |                   | PRE              | B         |      |       |      |       |       |
| 5                             | AUTHORITY XL     | 4 oz/a              | 4 oz/a          |                   | FALL             | A         | 92 a | 100 a | 70 a | 100 a | 72 ab |
| 5                             | WEEDMASTER       | 1.5 pt/a            | 1.5 pt/a        |                   | FALL             | A         |      |       |      |       |       |
| 5                             | COC              | 1 % v/v             | 1 % v/v         |                   | FALL             | A         |      |       |      |       |       |
| 5                             | AUTHORITY MTZ    | 12 oz/a             | 12 oz/a         |                   | PRE              | B         |      |       |      |       |       |
| 5                             | IGNITE 280 SL    | 32 oz/a             | 32 oz/a         |                   | PRE              | B         |      |       |      |       |       |
| 5                             | COC              | 1 % v/v             | 1 % v/v         |                   | PRE              | B         |      |       |      |       |       |
| 5                             | N-PAK AMS        | 2.5 % v/v           | 2.5 % v/v       |                   | PRE              | B         |      |       |      |       |       |
| 6                             | AUTHORITY XL     | 4 oz/a              | 4 oz/a          |                   | FALL             | A         | 94 a | 100 a | 70 a | 100 a | 67 ab |
| 6                             | WEEDMASTER       | 1.5 pt/a            | 1.5 pt/a        |                   | FALL             | A         |      |       |      |       |       |
| 6                             | COC              | 1 % v/v             | 1 % v/v         |                   | FALL             | A         |      |       |      |       |       |
| 6                             | AUTHORITY MTZ    | 12 oz/a             | 12 oz/a         |                   | PRE              | B         |      |       |      |       |       |
| 6                             | ROUNDUP POWERMAX | 32 oz/a             | 32 oz/a         |                   | PRE              | B         |      |       |      |       |       |
| 6                             | COC              | 1 % v/v             | 1 % v/v         |                   | PRE              | B         |      |       |      |       |       |
| 6                             | N-PAK AMS        | 2.5 % v/v           | 2.5 % v/v       |                   | PRE              | B         |      |       |      |       |       |
| 7                             | AUTHORITY MTZ    | 12 oz/a             | 12 oz/a         |                   | FALL             | A         | 89 a | 100 a | 63 a | 100 a | 63 ab |
| 7                             | WEEDMASTER       | 1.5 pt/a            | 1.5 pt/a        |                   | FALL             | A         |      |       |      |       |       |
| 7                             | COC              | 1 % v/v             | 1 % v/v         |                   | FALL             | A         |      |       |      |       |       |
| 7                             | N-PAK AMS        | 2.5 % v/v           | 2.5 % v/v       |                   | FALL             | A         |      |       |      |       |       |

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|                               |                  |                     |                 |                   |                  |
|-------------------------------|------------------|---------------------|-----------------|-------------------|------------------|
| Pest Type                     | W Weed           | W Weed              | W Weed          | W Weed            | W Weed           |
| Pest Code                     | AMBTR            | LAMAM               | SETFA           | ERICA             | AMBTR            |
| Pest Scientific Name          | Ambrosia trifida | Lamium amplexicaule | Setaria faberii | Conyza canadensis | Ambrosia trifida |
| Pest Name                     | Giant ragweed    | Henbit              | Giant foxtail   | Canada horseweed  | Giant ragweed    |
| Rating Date                   | May-14-2012      | May-14-2012         | May-29-2012     | May-29-2012       | May-29-2012      |
| Rating Type                   | CONTRO           | CONTRO              | CONTRO          | CONTRO            | CONTRO           |
| Rating Unit                   | %                | %                   | %               | %                 | %                |
| Number of Subsamples          | 1                | 1                   | 1               | 1                 | 1                |
| Rating Timing                 |                  |                     |                 |                   |                  |
| Days After First/Last Applic. | 179 12           | 179 12              | 194 27          | 194 27            | 194 27           |
| Trt-Eval Interval             | 12 DA-B          | 12 DA-B             | 27 DA-B         | 27 DA-B           | 27 DA-B          |
| Plant-Eval Interval           | 14 DP-1          | 14 DP-1             | 29 DP-1         | 29 DP-1           | 29 DP-1          |
| Days After Emergence          | 5 DE-1           | 5 DE-1              | 20 DE-1         | 20 DE-1           | 20 DE-1          |
| Number of Decimals            | 0                | 0                   | 0               | 0                 | 0                |

| Trt No.            | Treatment Name   | Rate      | Other Rate | Other Rate | Growth Stage | Appl Code | 17   | 18    | 19    | 20    | 21    |
|--------------------|------------------|-----------|------------|------------|--------------|-----------|------|-------|-------|-------|-------|
| 7                  | AUTHORITY XL     | 4 oz/a    | 4 oz/a     |            | PRE          | B         |      |       |       |       |       |
| 7                  | SHARPEN          | 1 oz/a    | 1 oz/a     |            | PRE          | B         |      |       |       |       |       |
| 7                  | COC              | 1 % v/v   | 1 % v/v    |            | PRE          | B         |      |       |       |       |       |
| 7                  | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | PRE          | B         |      |       |       |       |       |
| 8                  | AUTHORITY MTZ    | 12 oz/a   | 12 oz/a    |            | FALL         | A         | 98 a | 100 a | 77 a  | 98 ab | 87 a  |
| 8                  | WEEDMASTER       | 1.5 pt/a  | 1.5 pt/a   |            | FALL         | A         |      |       |       |       |       |
| 8                  | COC              | 1 % v/v   | 1 % v/v    |            | FALL         | A         |      |       |       |       |       |
| 8                  | N-PAK AMS        | 1 % v/v   | 1 % v/v    |            | FALL         | A         |      |       |       |       |       |
| 8                  | AUTHORITY XL     | 4 oz/a    | 4 oz/a     |            | PRE          | B         |      |       |       |       |       |
| 8                  | ROUNDUP POWERMAX | 32 oz/a   | 32 oz/a    |            | PRE          | B         |      |       |       |       |       |
| 8                  | COC              | 1 % v/v   | 1 % v/v    |            | PRE          | B         |      |       |       |       |       |
| 8                  | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | PRE          | B         |      |       |       |       |       |
| 9                  | AUTHORITY MTZ    | 12 oz/a   | 12 oz/a    |            | FALL         | A         | 92 a | 100 a | 65 a  | 97 b  | 65 ab |
| 9                  | WEEDMASTER       | 1.5 pt/a  | 1.5 pt/a   |            | FALL         | A         |      |       |       |       |       |
| 9                  | COC              | 1 % v/v   | 1 % v/v    |            | FALL         | A         |      |       |       |       |       |
| 9                  | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | FALL         | A         |      |       |       |       |       |
| 9                  | AUTHORITY XL     | 4 oz/a    | 4 oz/a     |            | PRE          | B         |      |       |       |       |       |
| 9                  | IGNITE 280 SL    | 32 oz/a   | 32 oz/a    |            | PRE          | B         |      |       |       |       |       |
| 9                  | COC              | 1 % v/v   | 1 % v/v    |            | PRE          | B         |      |       |       |       |       |
| 9                  | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | PRE          | B         |      |       |       |       |       |
| 10                 | AUTHORITY MTZ    | 12 oz/a   | 12 oz/a    |            | FALL         | A         | 98 a | 100 a | 70 a  | 99 ab | 73 ab |
| 10                 | WEEDMASTER       | 1.5 pt/a  | 1.5 pt/a   |            | FALL         | A         |      |       |       |       |       |
| 10                 | COC              | 1 % v/v   | 1 % v/v    |            | FALL         | A         |      |       |       |       |       |
| 10                 | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | FALL         | A         |      |       |       |       |       |
| 10                 | AUTHORITY XL     | 4 oz/a    | 4 oz/a     |            | PRE          | B         |      |       |       |       |       |
| 10                 | GRAMOXONE INTEON | 2.5 pt/a  | 2.5 pt/a   |            | PRE          | B         |      |       |       |       |       |
| 10                 | BUTYRAC 200      | 12 oz/a   | 12 oz/a    |            | PRE          | B         |      |       |       |       |       |
| 10                 | COC              | 1 % v/v   | 1 % v/v    |            | PRE          | B         |      |       |       |       |       |
| 10                 | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | PRE          | B         |      |       |       |       |       |
| LSD (P=.05)        |                  |           |            |            |              |           | 13.6 | 0.0   | 16.8  | 3.3   | 24.0  |
| Standard Deviation |                  |           |            |            |              |           | 7.9  | 0.0   | 9.8   | 1.9   | 14.0  |
| CV                 |                  |           |            |            |              |           | 9.36 | 0.0   | 15.33 | 2.15  | 22.54 |



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|                               |                 |                    |
|-------------------------------|-----------------|--------------------|
| Pest Type                     | W Weed          | W Weed             |
| Pest Code                     | CHEAL           | AMARE              |
| Pest Scientific Name          | Chenopodium al- | Amaranthus ret-    |
| Pest Name                     | Common lambsqu- | Redroot<br>pigweed |
| Rating Date                   | May-29-2012     | May-29-2012        |
| Rating Type                   | CONTRO          | CONTRO             |
| Rating Unit                   | %               | %                  |
| Number of Subsamples          | 1               | 1                  |
| Rating Timing                 |                 |                    |
| Days After First/Last Applic. | 194 27          | 194 27             |
| Trt-Eval Interval             | 27 DA-B         | 27 DA-B            |
| Plant-Eval Interval           | 29 DP-1         | 29 DP-1            |
| Days After Emergence          | 20 DE-1         | 20 DE-1            |
| Number of Decimals            | 0               | 0                  |

| Trt No.            | Treatment Name   | Rate      | Other Rate | Other Rate | Growth Stage | Appl Code | 22    | 23    |
|--------------------|------------------|-----------|------------|------------|--------------|-----------|-------|-------|
| 7                  | AUTHORITY XL     | 4 oz/a    | 4 oz/a     |            | PRE          | B         |       |       |
| 7                  | SHARPEN          | 1 oz/a    | 1 oz/a     |            | PRE          | B         |       |       |
| 7                  | COC              | 1 % v/v   | 1 % v/v    |            | PRE          | B         |       |       |
| 7                  | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | PRE          | B         |       |       |
| 8                  | AUTHORITY MTZ    | 12 oz/a   | 12 oz/a    |            | FALL         | A         | 100 a | 100 a |
| 8                  | WEEDMASTER       | 1.5 pt/a  | 1.5 pt/a   |            | FALL         | A         |       |       |
| 8                  | COC              | 1 % v/v   | 1 % v/v    |            | FALL         | A         |       |       |
| 8                  | N-PAK AMS        | 1 % v/v   | 1 % v/v    |            | FALL         | A         |       |       |
| 8                  | AUTHORITY XL     | 4 oz/a    | 4 oz/a     |            | PRE          | B         |       |       |
| 8                  | ROUNDUP POWERMAX | 32 oz/a   | 32 oz/a    |            | PRE          | B         |       |       |
| 8                  | COC              | 1 % v/v   | 1 % v/v    |            | PRE          | B         |       |       |
| 8                  | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | PRE          | B         |       |       |
| 9                  | AUTHORITY MTZ    | 12 oz/a   | 12 oz/a    |            | FALL         | A         | 100 a | 100 a |
| 9                  | WEEDMASTER       | 1.5 pt/a  | 1.5 pt/a   |            | FALL         | A         |       |       |
| 9                  | COC              | 1 % v/v   | 1 % v/v    |            | FALL         | A         |       |       |
| 9                  | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | FALL         | A         |       |       |
| 9                  | AUTHORITY XL     | 4 oz/a    | 4 oz/a     |            | PRE          | B         |       |       |
| 9                  | IGNITE 280 SL    | 32 oz/a   | 32 oz/a    |            | PRE          | B         |       |       |
| 9                  | COC              | 1 % v/v   | 1 % v/v    |            | PRE          | B         |       |       |
| 9                  | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | PRE          | B         |       |       |
| 10                 | AUTHORITY MTZ    | 12 oz/a   | 12 oz/a    |            | FALL         | A         | 100 a | 100 a |
| 10                 | WEEDMASTER       | 1.5 pt/a  | 1.5 pt/a   |            | FALL         | A         |       |       |
| 10                 | COC              | 1 % v/v   | 1 % v/v    |            | FALL         | A         |       |       |
| 10                 | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | FALL         | A         |       |       |
| 10                 | AUTHORITY XL     | 4 oz/a    | 4 oz/a     |            | PRE          | B         |       |       |
| 10                 | GRAMOXONE INTEON | 2.5 pt/a  | 2.5 pt/a   |            | PRE          | B         |       |       |
| 10                 | BUTYRAC 200      | 12 oz/a   | 12 oz/a    |            | PRE          | B         |       |       |
| 10                 | COC              | 1 % v/v   | 1 % v/v    |            | PRE          | B         |       |       |
| 10                 | N-PAK AMS        | 2.5 % v/v | 2.5 % v/v  |            | PRE          | B         |       |       |
| LSD (P=.05)        |                  |           |            |            |              |           | 0.0   | 1.6   |
| Standard Deviation |                  |           |            |            |              |           | 0.0   | 0.9   |
| CV                 |                  |           |            |            |              |           | 0.0   | 1.02  |