University of Wisconsin-Madison

Sequential Corn Herbicide Evaluation

Trial ID: 10ARLCN03
Location: Arlington- 454

Protocol ID: 10ARLCN03
Study Director: T. L. Trower

Investigator: C. M. Boerboom
Sponsor Contact: Syngenta/AMVAC

General Trial Information

Study Director: T. L. Trower
Title: Sr. Outreach Specialist

Investigator: C. M. Boerboom
Discipline: Herbicide
Initiation Date: Apr-28-2010

Trial Location

City: Arlington
State/Prov.: WI

Personnel

Study Director: T. L. Trower
Title: Sr. Outreach Specialist

Affiliation: UW- Madison
Address: 1575 Linden Drive
Location: Madison, WI
Postal Code: 53706
E-mail: tltrower@wisc.edu
Mobile No.: (608) 393-3173

Investigator: C. M. Boerboom

Crop Description

Crop 1: ZEAMD Zea mays indentata Dent corn
Variety: DKC 48-37
BBCH Scale: BCOR
Planting Method: SEEDED seeded
Rate, Unit: 325 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: SMOOTH smooth
Soil Moisture: NORMAL normal
Emergence Date: May-12-2010

Harvested Width, Unit: 5 FT
Harvested Length, Unit: 25 FT

Pest Description

Pest 1 Type: W Code: ABUTH Abutilon theophrasti
Common Name: Velvetleaf

Pest 2 Type: W Code: CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 3 Type: W Code: AMBEL Ambrosia artemisiifolia
Common Name: Common ragweed

Pest 4 Type: W Code: AMARE Amaranthus retroflexus
Common Name: Redroot pigweed

Pest 5 Type: W Code: TAROF Taraxacum officinale
Common Name: Common dandelion

Pest 6 Type: W Code: SETFA Setaria faberi
Common Name: Giant foxtail

Site and Design

Plot Width, Unit: 10 FT
Plot Length, Unit: 25 FT
Plot Area, Unit: 250 FT²
Replications: 4

Site Type: CROP
Tillage Type: CONTIL conventional-till
Study Design: RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: Silt Loam
% Sand: 6 % OM: 3.7 Texture: 2
% Silt: 71 pH: 6.7 Soil Name: Silt Loam
% Clay: 23 CEC: 12

Additional Measured Elements

<table>
<thead>
<tr>
<th>Element</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphurs</td>
<td>22</td>
<td>ppm</td>
</tr>
<tr>
<td>potassium</td>
<td>103</td>
<td>ppm</td>
</tr>
<tr>
<td>Calcium</td>
<td>1596</td>
<td>ppm</td>
</tr>
<tr>
<td>Magnesium</td>
<td>474</td>
<td>ppm</td>
</tr>
</tbody>
</table>
## Application Description

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Application Date:</strong></td>
<td>Apr-28-2010</td>
<td>May-6-2010</td>
<td>Jun-5-2010</td>
<td>Jun-13-2010</td>
</tr>
<tr>
<td><strong>Time of Day:</strong></td>
<td>11:45p</td>
<td>2:30p</td>
<td>10:30a</td>
<td>1:30p</td>
</tr>
<tr>
<td><strong>Application Method:</strong></td>
<td>Broadcast</td>
<td>Broadcast</td>
<td>Broadcast</td>
<td>Broadcast</td>
</tr>
<tr>
<td><strong>Application Timing:</strong></td>
<td>Prept</td>
<td>Preemg</td>
<td>Post</td>
<td>Post</td>
</tr>
<tr>
<td><strong>Application Placement:</strong></td>
<td>Surface</td>
<td>Surface</td>
<td>Foliar</td>
<td>Foliar</td>
</tr>
<tr>
<td><strong>Applied By:</strong></td>
<td>T.L.Trower</td>
<td>T.L.Trower</td>
<td>T.L.Trower</td>
<td>T.L.Trower</td>
</tr>
<tr>
<td><strong>Air Temperature, Unit:</strong></td>
<td>57°F</td>
<td>66°F</td>
<td>79°F</td>
<td>72°F</td>
</tr>
<tr>
<td><strong>% Relative Humidity:</strong></td>
<td>34</td>
<td>42</td>
<td>61</td>
<td>81</td>
</tr>
<tr>
<td><strong>Wind Velocity, Unit:</strong></td>
<td>7 MPH</td>
<td>0 MPH</td>
<td>1.5 MPH</td>
<td>2 MPH</td>
</tr>
<tr>
<td><strong>Wind Direction:</strong></td>
<td>SSW</td>
<td>SSW</td>
<td>S</td>
<td>SSW</td>
</tr>
<tr>
<td><strong>Dew Presence (Y/N):</strong></td>
<td>N no</td>
<td>N no</td>
<td>N no</td>
<td>N no</td>
</tr>
<tr>
<td><strong>Soil Temperature, Unit:</strong></td>
<td>50°F</td>
<td>66°F</td>
<td>70°F</td>
<td>74°F</td>
</tr>
<tr>
<td><strong>Soil Moisture:</strong></td>
<td>Dry/Moist</td>
<td>Dry/Wet</td>
<td>WET</td>
<td>SLIWET</td>
</tr>
<tr>
<td><strong>% Cloud Cover:</strong></td>
<td>0</td>
<td>10</td>
<td>30</td>
<td>100</td>
</tr>
</tbody>
</table>

### Crop Stage At Each Application

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Crop 1 Code, BBCH Scale:</strong></td>
<td>ZEAMD BCOR</td>
<td>ZEAMD BCOR</td>
<td>ZEAMD BCOR</td>
<td>ZEAMD BCOR</td>
</tr>
<tr>
<td><strong>Stage Scale Used:</strong></td>
<td>BBCH</td>
<td>BBCH</td>
<td>BBCH</td>
<td>BBCH</td>
</tr>
<tr>
<td><strong>Stage Majority, Percent:</strong></td>
<td>0</td>
<td>3</td>
<td>14</td>
<td>36</td>
</tr>
<tr>
<td><strong>Height Minimum, Maximum:</strong></td>
<td>7</td>
<td>9</td>
<td>13</td>
<td>15</td>
</tr>
</tbody>
</table>

### Pest Stage At Each Application

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pest 1 Code, Type, Scale:</strong></td>
<td>ABUTH W</td>
<td>ABUTH W</td>
<td>ABUTH W</td>
<td>ABUTH W</td>
</tr>
<tr>
<td><strong>Stage Majority, Percent:</strong></td>
<td>09</td>
<td>14</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td><strong>Height, Unit:</strong></td>
<td>25 IN</td>
<td>IN</td>
<td>IN</td>
<td>IN</td>
</tr>
<tr>
<td><strong>Height Minimum, Maximum:</strong></td>
<td>3 FT2</td>
<td>3 FT2</td>
<td>3 FT2</td>
<td>3 FT2</td>
</tr>
<tr>
<td><strong>Density, Unit:</strong></td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td><strong>Pest 2 Code, Type, Scale:</strong></td>
<td>CHEAL W</td>
<td>CHEAL W</td>
<td>CHEAL W</td>
<td>CHEAL W</td>
</tr>
<tr>
<td><strong>Stage Majority, Percent:</strong></td>
<td>09</td>
<td>17</td>
<td>17</td>
<td>17</td>
</tr>
<tr>
<td><strong>Height, Unit:</strong></td>
<td>25 IN</td>
<td>IN</td>
<td>IN</td>
<td>IN</td>
</tr>
<tr>
<td><strong>Height Minimum, Maximum:</strong></td>
<td>4 FT2</td>
<td>4 FT2</td>
<td>4 FT2</td>
<td>4 FT2</td>
</tr>
<tr>
<td><strong>Density, Unit:</strong></td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td><strong>Pest 3 Code, Type, Scale:</strong></td>
<td>AMBEL W</td>
<td>AMBEL W</td>
<td>AMBEL W</td>
<td>AMBEL W</td>
</tr>
<tr>
<td><strong>Stage Majority, Percent:</strong></td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td><strong>Height Minimum, Maximum:</strong></td>
<td>1 IN</td>
<td>2</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td><strong>Density, Unit:</strong></td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td><strong>Pest 4 Code, Type, Scale:</strong></td>
<td>AMARE W</td>
<td>AMARE W</td>
<td>AMARE W</td>
<td>AMARE W</td>
</tr>
<tr>
<td><strong>Stage Majority, Percent:</strong></td>
<td>13</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td><strong>Height Minimum, Maximum:</strong></td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Density, Unit:</strong></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Pest 5 Code, Type, Scale:</strong></td>
<td>TAROF W</td>
<td>TAROF W</td>
<td>TAROF W</td>
<td>TAROF W</td>
</tr>
<tr>
<td><strong>Pest 6 Code, Type, Scale:</strong></td>
<td>SETFA W</td>
<td>SETFA W</td>
<td>SETFA W</td>
<td>SETFA W</td>
</tr>
<tr>
<td><strong>Stage Majority, Percent:</strong></td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td><strong>Height Minimum, Maximum:</strong></td>
<td>1 IN</td>
<td>2</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td><strong>Density, Unit:</strong></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

### Application Equipment

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equipment Type:</strong></td>
<td>SPRBAC</td>
<td>SPRBAC</td>
<td>SPRBAC</td>
<td>SPRBAC</td>
</tr>
<tr>
<td><strong>Operating Pressure, Unit:</strong></td>
<td>23 PSI</td>
<td>23 PSI</td>
<td>23 PSI</td>
<td>23 PSI</td>
</tr>
<tr>
<td><strong>Nozzle Type:</strong></td>
<td>XR</td>
<td>XR</td>
<td>XR</td>
<td>XR</td>
</tr>
<tr>
<td><strong>Nozzle Size:</strong></td>
<td>8003</td>
<td>8003</td>
<td>8003</td>
<td>8003</td>
</tr>
<tr>
<td><strong>Nozzle Spacing, Unit:</strong></td>
<td>20 IN</td>
<td>20 IN</td>
<td>20 IN</td>
<td>20 IN</td>
</tr>
<tr>
<td><strong>% Coverage:</strong></td>
<td>100.0</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td><strong>Boom ID:</strong></td>
<td>20 GPA</td>
<td>20 GPA</td>
<td>20 GPA</td>
<td>20 GPA</td>
</tr>
<tr>
<td><strong>Boom Length, Unit:</strong></td>
<td>10 FT</td>
<td>10 FT</td>
<td>10 FT</td>
<td>10 FT</td>
</tr>
<tr>
<td><strong>Boom Height, Unit:</strong></td>
<td>19 IN</td>
<td>19 IN</td>
<td>19 IN</td>
<td>19 IN</td>
</tr>
<tr>
<td><strong>Ground Speed, Unit:</strong></td>
<td>3 MPH</td>
<td>3 MPH</td>
<td>3 MPH</td>
<td>3 MPH</td>
</tr>
<tr>
<td><strong>Carrier:</strong></td>
<td>WATER</td>
<td>WATER</td>
<td>WATER</td>
<td>WATER</td>
</tr>
<tr>
<td><strong>Spray Volume, Unit:</strong></td>
<td>20 gal/ac</td>
<td>20 gal/ac</td>
<td>20 gal/ac</td>
<td>20 gal/ac</td>
</tr>
<tr>
<td><strong>Mix Size, Unit:</strong></td>
<td>2.2 liters</td>
<td>2.2 liters</td>
<td>2.2 liters</td>
<td>2.2 liters</td>
</tr>
<tr>
<td><strong>Propellant:</strong></td>
<td>COMCO2</td>
<td>COMCO2</td>
<td>COMCO2</td>
<td>COMCO2</td>
</tr>
</tbody>
</table>
### Sequential Corn Herbicide Evaluation

<table>
<thead>
<tr>
<th>Pest Name</th>
<th>Crop Name</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Rating Unit</th>
<th>Tri-Eval Interval</th>
<th>Rate</th>
<th>Unit</th>
<th>Applicator Code</th>
<th>Code</th>
<th>1</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Lumax</td>
<td>Dent corn</td>
<td>Jun-4-2010</td>
<td>PHYGEN</td>
<td>37 DA-A</td>
<td>0.75 pt/a</td>
<td>B</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>0 b</td>
<td>1 d</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Lexar</td>
<td>Dent corn</td>
<td>Jun-4-2010</td>
<td>PHYBLE</td>
<td>42 DA-A</td>
<td>2.5 fl oz/a</td>
<td>B</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>0 b</td>
<td>0 d</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Corvus</td>
<td>Dent corn</td>
<td>Jun-4-2010</td>
<td>PHYNEC</td>
<td>42 DA-A</td>
<td>2.5 fl oz/a</td>
<td>B</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>0 b</td>
<td>1 cd</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Integrity</td>
<td>Dent corn</td>
<td>Jun-22-2010</td>
<td>PHYSTU</td>
<td>9 DA-D</td>
<td>13 fl oz/a</td>
<td>B</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>0 b</td>
<td>0 d</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 SureStart</td>
<td>Dent corn</td>
<td>Jun-22-2010</td>
<td>PHYCHL</td>
<td>9 DA-D</td>
<td>1.75 fl oz/a</td>
<td>B</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>0 b</td>
<td>1 cd</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 Balance Flexx</td>
<td>Dent corn</td>
<td>Jun-22-2010</td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>3 fl oz/a</td>
<td>B</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>0 b</td>
<td>0 d</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 Bicep II Magnum</td>
<td>Dent corn</td>
<td>Jun-4-2010</td>
<td>PHYSTU</td>
<td>9 DA-D</td>
<td>1.3 fl oz/a</td>
<td>B</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>0 b</td>
<td>0 d</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 Bicep II Magnum</td>
<td>Dent corn</td>
<td>Jun-4-2010</td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>1.3 fl oz/a</td>
<td>B</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>0 b</td>
<td>1 cd</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 Fierce</td>
<td>Dent corn</td>
<td>Jun-4-2010</td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>0 b</td>
<td>2 bcd</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 Harness Xtra 6</td>
<td>Dent corn</td>
<td>Jun-4-2010</td>
<td>AMS</td>
<td>17 lb/100 gal</td>
<td>1.25 fl oz/a</td>
<td>B</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>0 b</td>
<td>1 cd</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 Nontreated</td>
<td>Dent corn</td>
<td>Jun-4-2010</td>
<td>AMS</td>
<td>17 lb/100 gal</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>0 b</td>
<td>0 d</td>
<td>0 a</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 Dual II Magnum</td>
<td>Dent corn</td>
<td>Jun-4-2010</td>
<td>Impact</td>
<td>1 pt/a</td>
<td>0.75 fl oz/a</td>
<td>B</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>18 a</td>
<td>7 a</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 Dual II Magnum</td>
<td>Dent corn</td>
<td>Jun-4-2010</td>
<td>Meth Oil</td>
<td>1 % v/v</td>
<td>0.75 fl oz/a</td>
<td>C</td>
<td>0 a</td>
<td>0 a</td>
<td>3 b</td>
<td>0 b</td>
<td>6 ab</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16 Dual II Magnum</td>
<td>Dent corn</td>
<td>Jun-22-2010</td>
<td>Basagran</td>
<td>0.5 fl oz/a</td>
<td>0.75 fl oz/a</td>
<td>B</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>9 a</td>
<td>0 b</td>
<td>6 abc</td>
<td>0 a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17 Dual II Magnum</td>
<td>Dent corn</td>
<td>Jun-22-2010</td>
<td>Cadet</td>
<td>0.5 fl oz/a</td>
<td>0.75 fl oz/a</td>
<td>B</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>0 b</td>
<td>3 a-d</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 Dual II Magnum</td>
<td>Dent corn</td>
<td>Jun-22-2010</td>
<td>Crop Oil Concentrate</td>
<td>0.5 fl oz/a</td>
<td>0.75 fl oz/a</td>
<td>B</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>0 b</td>
<td>3 a-d</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19 Dual II Magnum</td>
<td>Dent corn</td>
<td>Jun-22-2010</td>
<td>Meth Oil</td>
<td>1 % v/v</td>
<td>0.75 fl oz/a</td>
<td>C</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>0 b</td>
<td>2 bcd</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 Dual II Magnum</td>
<td>Dent corn</td>
<td>Jun-22-2010</td>
<td>Meth Oil</td>
<td>1 % v/v</td>
<td>0.75 fl oz/a</td>
<td>C</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>0 b</td>
<td>5 abc</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21 Dual II Magnum</td>
<td>Dent corn</td>
<td>Jun-22-2010</td>
<td>Meth Oil</td>
<td>1 % v/v</td>
<td>0.75 fl oz/a</td>
<td>C</td>
<td>0 a</td>
<td>0 a</td>
<td>0 c</td>
<td>0 b</td>
<td>3 a-d</td>
<td>0 a</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**LSD (P=.10)**: 0.0 0.0 0.5 1.3 4.6 0.0
## Sequentail Corn Herbicide Evaluation

<table>
<thead>
<tr>
<th>Trt</th>
<th>Treatment</th>
<th>Rate</th>
<th>Unit</th>
<th>Code</th>
<th>LSD (P=.10)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>13.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10.9</td>
</tr>
</tbody>
</table>

### Pest Name
- Giant foxtail
- Giant foxtail
- Giant foxtail
- Giant foxtail
- Giant foxtail
- Giant foxtail
- Giant foxtail
- Giant foxtail
- Giant foxtail

### Pest Type
- W Weed
- W Weed
- W Weed
- W Weed
- W Weed
- W Weed
- W Weed
- W Weed
- W Weed

### Rating Date
- Jun-4-2010
- Jun-22-2010
- Jul-19-2010
- Sep-14-2010
- Sep-14-2010

### Rating Type
- Control
- Control
- Control
- Control
- Control

### Rating Unit
- %
- %
- %
- %
- %

### Plant-Eval Interval
- 37 DP-1
- 37 DP-1
- 98 DP-1
- 139 DP-1
- 139 DP-1

### Days After First/Last Appl.
- 32
- 37
- 59
- 82
- 93

### LSD (P=.10)
- 13.0
- 3.0
- 3.3
- 5.5
- 10.9

<table>
<thead>
<tr>
<th>Trt</th>
<th>Treatment</th>
<th>Rate</th>
<th>Unit</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lumax</td>
<td>2 qt/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>AMS</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8.5 lb/100 gal</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lexar</td>
<td>2.25 qt/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>AMS</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8.5 lb/100 gal</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Convis</td>
<td>3 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>AMS</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8.5 lb/100 gal</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Integrity</td>
<td>13 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>AMS</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8.5 lb/100 gal</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SureStart</td>
<td>1.75 qt/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Durango DMA</td>
<td>24 fl oz/a</td>
<td>AMS</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 % v/v</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Balance Flex</td>
<td>3 fl oz/a</td>
<td>atrazine</td>
<td>1 qt/a</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>AMS</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8.5 lb/100 gal</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bicep II Magnum</td>
<td>1 qt/a</td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8.5 lb/100 gal</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bicep II Magnum</td>
<td>1 qt/a</td>
<td>Liquid AMS</td>
<td>2.5 % v/v</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8.5 lb/100 gal</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fierce</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>AMS</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8.5 lb/100 gal</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Harness Xtra 6</td>
<td>1.25 qt/a</td>
<td>Roundup PowerMax</td>
<td>22 fl oz/a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8.5 lb/100 gal</td>
<td>D</td>
<td></td>
</tr>
</tbody>
</table>

### LSD (P=.10)
- 100 a
- 100 a
- 100 a
- 100 a
- 100 a

### LSD (P=.10)
- 100 a
- 100 a
- 70 d
- 75 e
- 65 f
- 15 c

### LSD (P=.10)
- 71 b
- 94 c
- 95 cd
- 93 cde
- 84 b

### LSD (P=.10)
- 96 a
- 94 c
- 95 cd
- 95 b-e
- 92 ab

### LSD (P=.10)
- 97 a
- 94 c
- 94 cd
- 93 cde
- 91 ab

### LSD (P=.10)
- 96 a
- 96 bc
- 94 d
- 91 e
- 97 a

### LSD (P=.10)
- 95 a
- 96 bc
- 96 bcd
- 97 a-d
- 85 b

### LSD (P=.10)
- 96 a
- 98 ab
- 97 abc
- 92 de
- 95 ab

### LSD (P=.10)
- 98 a
- 100 a
- 99 ab
- 97 a-d
- 97 a

### LSD (P=.10)
- 96 a
- 97 bc
- 97 abc
- 97 a-d
- 92 ab
<table>
<thead>
<tr>
<th>Trt</th>
<th>Treatment</th>
<th>Rate</th>
<th>Unit</th>
<th>Appl Code</th>
<th>Rating</th>
<th>Unit</th>
<th>Rating</th>
<th>Unit</th>
<th>Rating</th>
<th>Unit</th>
<th>Rating</th>
<th>Unit</th>
<th>Rating</th>
<th>Unit</th>
<th>Rating</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Lumax</td>
<td>2 qt/a</td>
<td>B</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Lexar</td>
<td>2.25 qt/a</td>
<td>B</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Corvus</td>
<td>3 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Integrity</td>
<td>13 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>99 ab</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>SureStart</td>
<td>1.75 qt/a</td>
<td>B</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Balance Flexx</td>
<td>3 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>99 ab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Bicep II Magnum</td>
<td>1.3 qt/a</td>
<td>B</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Bicep II Magnum</td>
<td>1.3 qt/a</td>
<td>B</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Fierce</td>
<td>3 oz/a</td>
<td>A</td>
<td>99 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Harness Xtra 6</td>
<td>1.25 qt/a</td>
<td>B</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Nontreated</td>
<td>0 d</td>
<td>0 c</td>
<td>0 c</td>
<td>0 c</td>
<td>0 d</td>
<td>0 d</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Dual II Magnum</td>
<td>0.75 pt/a</td>
<td>B</td>
<td>78 b</td>
<td>0 c</td>
<td>0 c</td>
<td>0 d</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Dual II Magnum</td>
<td>0.75 pt/a</td>
<td>B</td>
<td>56 c</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Dual II Magnum</td>
<td>0.75 pt/a</td>
<td>B</td>
<td>78 b</td>
<td>99 b</td>
<td>99 ab</td>
<td>99 ab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Dual II Magnum</td>
<td>0.75 pt/a</td>
<td>B</td>
<td>78 b</td>
<td>100 a</td>
<td>99 ab</td>
<td>99 ab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Dual II Magnum</td>
<td>0.75 pt/a</td>
<td>B</td>
<td>78 b</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Dual II Magnum</td>
<td>0.75 pt/a</td>
<td>B</td>
<td>78 b</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Dual II Magnum</td>
<td>0.75 pt/a</td>
<td>B</td>
<td>83 b</td>
<td>99 ab</td>
<td>99 b</td>
<td>98 bc</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Dual II Magnum</td>
<td>0.75 pt/a</td>
<td>B</td>
<td>83 b</td>
<td>100 a</td>
<td>100 a</td>
<td>99 abc</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Dual II Magnum</td>
<td>0.75 pt/a</td>
<td>B</td>
<td>79 b</td>
<td>100 a</td>
<td>100 a</td>
<td>97 c</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LSD (P=.10) 11.3 0.9 0.9 2.1
<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment</th>
<th>Rate</th>
<th>Unit</th>
<th>Appl Code</th>
<th>4</th>
<th>14</th>
<th>19</th>
<th>25</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Lumax</td>
<td>2</td>
<td>qt/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24</td>
<td>fl oz/a</td>
<td>D</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5</td>
<td>lb/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Lexar</td>
<td>2.25</td>
<td>qt/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24</td>
<td>fl oz/a</td>
<td>D</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5</td>
<td>lb/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Corvus</td>
<td>3</td>
<td>fl oz/a</td>
<td>B</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>qt/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24</td>
<td>fl oz/a</td>
<td>D</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5</td>
<td>lb/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Integrity</td>
<td>13</td>
<td>fl oz/a</td>
<td>B</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24</td>
<td>fl oz/a</td>
<td>D</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5</td>
<td>lb/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>SureStart</td>
<td>1.75</td>
<td>qt/a</td>
<td>B</td>
<td>98</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Durango DMA</td>
<td>24</td>
<td>fl oz/a</td>
<td>D</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2%</td>
<td>v/v</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Balance Flexx</td>
<td>3</td>
<td>fl oz/a</td>
<td>B</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>qt/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24</td>
<td>fl oz/a</td>
<td>D</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5</td>
<td>lb/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Bicep II Magnum</td>
<td>1.3</td>
<td>fl oz/a</td>
<td>B</td>
<td>55</td>
<td></td>
<td>98</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24</td>
<td>fl oz/a</td>
<td>D</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5</td>
<td>lb/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Bicep II Magnum</td>
<td>1.3</td>
<td>fl oz/a</td>
<td>B</td>
<td>76</td>
<td></td>
<td>99 ab</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Halo GT</td>
<td>3.6</td>
<td>pt/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Activator 90</td>
<td>0.25</td>
<td>% v/v</td>
<td>D</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5</td>
<td>lb/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Fierce</td>
<td>3</td>
<td>oz/a</td>
<td>A</td>
<td>95</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24</td>
<td>fl oz/a</td>
<td>D</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5</td>
<td>lb/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Harness Xtria 6</td>
<td>1.25</td>
<td>qt/a</td>
<td>B</td>
<td>63</td>
<td></td>
<td>99 ab</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Roundup PowerMax</td>
<td>22</td>
<td>fl oz/a</td>
<td>D</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>17</td>
<td>lb/100 gal</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Nontreated</td>
<td>0</td>
<td></td>
<td></td>
<td>0</td>
<td>d</td>
<td>0</td>
<td>b</td>
</tr>
<tr>
<td>13</td>
<td>Dual II Magnum</td>
<td>0.75</td>
<td>pt/a</td>
<td>B</td>
<td>0</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>14</td>
<td>Dual II Magnum</td>
<td>0.75</td>
<td>pt/a</td>
<td>B</td>
<td>0</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Impact</td>
<td>0.75</td>
<td>fl oz/a</td>
<td>C</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>pt/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Meth oil</td>
<td>1</td>
<td>% v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>28% UAN</td>
<td>2.5</td>
<td></td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Dual II Magnum</td>
<td>0.75</td>
<td>pt/a</td>
<td>B</td>
<td>0</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Impact</td>
<td>0.75</td>
<td>fl oz/a</td>
<td>C</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Basagran</td>
<td>0.75</td>
<td>pt/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Meth Oil</td>
<td>1</td>
<td>% v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>28% UAN</td>
<td>2.5</td>
<td></td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Dual II Magnum</td>
<td>0.75</td>
<td>pt/a</td>
<td>B</td>
<td>0</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Impact</td>
<td>0.75</td>
<td>fl oz/a</td>
<td>C</td>
<td>100</td>
<td></td>
<td>100</td>
<td>99 b</td>
</tr>
<tr>
<td></td>
<td>Cadet</td>
<td>0.5</td>
<td>fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Crop Oil Concentrate 28%</td>
<td>1</td>
<td>% v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>28% UAN</td>
<td>2.5</td>
<td></td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Dual II Magnum</td>
<td>0.75</td>
<td>pt/a</td>
<td>B</td>
<td>0</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Laudis</td>
<td>3</td>
<td>fl oz/a</td>
<td>C</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>pt/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Meth Oil</td>
<td>1</td>
<td>% v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>28% UAN</td>
<td>2.5</td>
<td></td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Dual II Magnum</td>
<td>0.75</td>
<td>pt/a</td>
<td>B</td>
<td>0</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Impact</td>
<td>1</td>
<td>fl oz/a</td>
<td>C</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Meth Oil</td>
<td>1</td>
<td>% v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>28% UAN</td>
<td>2.5</td>
<td></td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Dual II Magnum</td>
<td>0.75</td>
<td>pt/a</td>
<td>B</td>
<td>0</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Roundup PowerMax</td>
<td>22</td>
<td>fl oz/a</td>
<td>C</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Dual II Magnum</td>
<td>0.75</td>
<td>pt/a</td>
<td>B</td>
<td>0</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Impact</td>
<td>0.5</td>
<td>fl oz/a</td>
<td>C</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Roundup PowerMax</td>
<td>22</td>
<td>fl oz/a</td>
<td>C</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Dual II Magnum</td>
<td>0.75</td>
<td>pt/a</td>
<td>B</td>
<td>0</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Impact</td>
<td>0.75</td>
<td>fl oz/a</td>
<td>C</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Roundup PowerMax</td>
<td>11</td>
<td>fl oz/a</td>
<td>C</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>HSAC</td>
<td>0.5</td>
<td>% v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LSD (P=0.10)</td>
<td></td>
<td>8.9</td>
<td></td>
<td>1.4</td>
<td>0.9</td>
<td>0.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trt No.</td>
<td>Treatment</td>
<td>Rate</td>
<td>App Code</td>
<td>Rating Date</td>
<td>5</td>
<td>15</td>
<td>20</td>
<td>26</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------------</td>
<td>--------</td>
<td>----------</td>
<td>-------------</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>1</td>
<td>Nontreated</td>
<td>0</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Lumax</td>
<td>2 qt/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>AMS</td>
<td></td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Lexar</td>
<td>2.25 qt/a</td>
<td>B</td>
<td></td>
<td>99 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>AMS</td>
<td></td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Corvus</td>
<td>3 fl oz/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 qt/a</td>
<td>B</td>
<td></td>
<td>24 fl oz/a</td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
</tr>
<tr>
<td>5</td>
<td>Integrity</td>
<td>13 fl oz/a</td>
<td>B</td>
<td></td>
<td>86 b</td>
<td>99 ab</td>
<td>99 abc</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>AMS</td>
<td></td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>SureStart</td>
<td>1.75 qt/a</td>
<td>B</td>
<td></td>
<td>97 a</td>
<td>100 a</td>
<td>100 a</td>
<td>99 a</td>
</tr>
<tr>
<td></td>
<td>Durango DMA</td>
<td>24 fl oz/a</td>
<td>AMS</td>
<td></td>
<td>2 % v/v</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Balance Flexx</td>
<td>3 fl oz/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td>100 a</td>
<td>99 ab</td>
<td>98 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 qt/a</td>
<td>B</td>
<td></td>
<td>24 fl oz/a</td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
</tr>
<tr>
<td>8</td>
<td>Bicep II Magnum</td>
<td>1.3 qt/a</td>
<td>B</td>
<td></td>
<td>93 ab</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>AMS</td>
<td></td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Bicep II Magnum</td>
<td>1.3 qt/a</td>
<td>B</td>
<td></td>
<td>91 ab</td>
<td>99 ab</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Halex GT</td>
<td>3.6 pt/a</td>
<td>D</td>
<td></td>
<td>28% UAN</td>
<td>0.25 % v/v</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Activator 90</td>
<td></td>
<td></td>
<td></td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Fierce</td>
<td>3 oz/a</td>
<td>A</td>
<td></td>
<td>65 c</td>
<td>94 de</td>
<td>100 a</td>
<td>99 a</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>AMS</td>
<td></td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Harness Xtra 6</td>
<td>1.25 qt/a</td>
<td>B</td>
<td></td>
<td>70 c</td>
<td>100 a</td>
<td>100 a</td>
<td>99 a</td>
</tr>
<tr>
<td></td>
<td>Roundup PowerMax</td>
<td>22 fl oz/a</td>
<td>AMS</td>
<td></td>
<td>17 lb/100 gal</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Nontreated</td>
<td>0</td>
<td></td>
<td></td>
<td>0 d</td>
<td>0 f</td>
<td>0 e</td>
<td>0 c</td>
</tr>
<tr>
<td>13</td>
<td>Dual II Magnum</td>
<td>0.75 pt/a</td>
<td>B</td>
<td></td>
<td>0 d</td>
<td>0 f</td>
<td>0 e</td>
<td>0 c</td>
</tr>
<tr>
<td>14</td>
<td>Dual II Magnum</td>
<td>0.75 pt/a</td>
<td>B</td>
<td></td>
<td>0 d</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Meth Oil</td>
<td>1 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>28% UAN</td>
<td>2.5 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Dual II Magnum</td>
<td>0.75 fl oz/a</td>
<td>B</td>
<td></td>
<td>0 d</td>
<td>98 bc</td>
<td>98 cd</td>
<td>94 b</td>
</tr>
<tr>
<td></td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basagran</td>
<td>0.75 pt/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Meth Oil</td>
<td>1 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>28% UAN</td>
<td>2.5 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Dual II Magnum</td>
<td>0.75 fl oz/a</td>
<td>B</td>
<td></td>
<td>0 d</td>
<td>100 a</td>
<td>99 abc</td>
<td>98 a</td>
</tr>
<tr>
<td></td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cadet</td>
<td>0.5 fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Crop Oil Concentrate</td>
<td>1 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>28% UAN</td>
<td>2.5 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Dual II Magnum</td>
<td>0.75 fl oz/a</td>
<td>B</td>
<td></td>
<td>0 d</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Meth Oil</td>
<td>1 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>28% UAN</td>
<td>2.5 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Dual II Magnum</td>
<td>0.75 pt/a</td>
<td>B</td>
<td></td>
<td>0 d</td>
<td>93 e</td>
<td>97 d</td>
<td>98 a</td>
</tr>
<tr>
<td></td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Meth Oil</td>
<td>1 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>28% UAN</td>
<td>2.5 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Dual II Magnum</td>
<td>0.75 fl oz/a</td>
<td>B</td>
<td></td>
<td>0 d</td>
<td>95 d</td>
<td>99 a-d</td>
<td>98 a</td>
</tr>
<tr>
<td></td>
<td>Roundup PowerMax</td>
<td>22 fl oz/a</td>
<td>AMS</td>
<td></td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Dual II Magnum</td>
<td>0.75 pt/a</td>
<td>B</td>
<td></td>
<td>0 d</td>
<td>98 abc</td>
<td>99 ab</td>
<td>99 a</td>
</tr>
<tr>
<td></td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roundup PowerMax</td>
<td>22 fl oz/a</td>
<td>AMS</td>
<td></td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Dual II Magnum</td>
<td>0.75 pt/a</td>
<td>B</td>
<td></td>
<td>0 d</td>
<td>96 cd</td>
<td>98 bcd</td>
<td>99 a</td>
</tr>
<tr>
<td></td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roundup PowerMax</td>
<td>11 fl oz/a</td>
<td>AMS</td>
<td></td>
<td>0.5 % v/v</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HSOC</td>
<td></td>
<td></td>
<td></td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LSD (P=.10) 10.9 2.0 1.6 3.0
| Pest Name | Crop Name | Rating Date | Rating Type | Rating Unit | Trt Eval Interval | Treatment | Rate Unit | Unit | Appl Code | Common dandelion> Jun-4-2010 control | Common dandelion> Jun-22-2010 control | Common dandelion> Jul-19-2010 control | Common dandelion> Sep-14-2010 control |
|-----------|-----------|-------------|-------------|-------------|---------------------|-----------|-----------|------|-----------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|           |           |             |             |             | 37 DA-A            | 1 Nontreated | 2 qt/a   | B    |           | 17 a                                 | 95 a                                 | 97 a                                 | 89 ab                                |                       |
|           |           |             |             |             |                     | 2 Lumax Touchdown Total AMS | 2.5 lb/a | D    |           | 97 a                                 | 93 a                                 | 93 a                                 | 93 a                                 |                       |
|           |           |             |             |             |                     | 3 Lexar Touchdown Total AMS | 2.5 lb/a | D    |           | 89 ab                                | 89 a-d                               | 89 abc                               | 88 ab                                |                       |
|           |           |             |             |             |                     | 4 Corvus atrazine Touchdown Total AMS | 2.5 lb/a | D    |           | 87 b                                 | 88 b-e                               | 92 ab                                | 91 a                                 |                       |
|           |           |             |             |             |                     | 5 Integrity Touchdown Total AMS | 2.5 lb/a | D    |           | 94 ab                                | 92 abc                               | 93 ab                                | 94 a                                 |                       |
|           |           |             |             |             |                     | 6 SureStart Durango DMA AMS | 2 % v/v  | D    |           | 50 d                                 | 84 d-g                               | 92 ab                                | 90 ab                                |                       |
|           |           |             |             |             |                     | 7 Balance Flexx atrazine Touchdown Total AMS | 2.5 lb/a | D    |           | 56 cd                                | 86 c-f                               | 95 ab                                | 98 a                                 |                       |
|           |           |             |             |             |                     | 8 Bicep II Magnum Touchdown Total AMS | 2.5 lb/a | D    |           | 93 d                                 | 83 d-g                               | 87 bc                                | 85 abc                               |                       |
|           |           |             |             |             |                     | 9 Dazzle II Magnum Halex GT Activator 90 AMS | 0.25 % v/v | D    |           | 63 c                                 | 85 d-g                               | 93 ab                                | 94 a                                 |                       |
|           |           |             |             |             |                     | 10 Field Acre Touchdown Total AMS | 2.5 lb/a | D    |           | 93 d                                 | 83 d-g                               | 87 bc                                | 85 abc                               |                       |
|           |           |             |             |             |                     | 11 Harness Xtra 6 Roundup PowerMax AMS | 17 lb/100 gal | D   |           | 63 c                                 | 85 d-g                               | 93 ab                                | 94 a                                 |                       |
|           |           |             |             |             |                     | 12 Nontreated | 0.75 pt/a | B    |           | 0 e                                  | 0 i                                  | 0 f                                  | 0 g                                  |                       |
|           |           |             |             |             |                     | 13 Dual II Magnum | 0.75 pt/a | B    |           | 0 e                                  | 0 e                                  | 0 f                                  | 0 g                                  |                       |
|           |           |             |             |             |                     | 14 Dual II Magnum Impact atrazine Meth Oil 28% UAN | 0.75 fl oz/a | C    |           | 0 e                                  | 0 e                                  | 82 efg                               | 80 cd                                | 73 bcd                               |
|           |           |             |             |             |                     | 15 Dual II Magnum Impact Basagran Meth Oil 28% UAN | 0.75 fl oz/a | C    |           | 0 e                                  | 78 gh                                | 64 e                                  | 48 f                                 |                       |
|           |           |             |             |             |                     | 16 Dual II Magnum Impact Cadet Crop Oil Concentrate 28% UAN | 0.75 fl oz/a | C    |           | 0 e                                  | 79 gh                                | 71 de                                | 50 ef                                |                       |
|           |           |             |             |             |                     | 17 Dual II Magnum Laudis atrazine Meth Oil 28% UAN | 0.75 fl oz/a | C    |           | 0 e                                  | 92 abc                               | 90 ab                                | 86 abc                               |                       |
|           |           |             |             |             |                     | 18 Dual II Magnum Impact Meth Oil 28% UAN | 0.75 fl oz/a | C    |           | 0 e                                  | 72 h                                  | 63 e                                  | 60 def                               |                       |
|           |           |             |             |             |                     | 19 Dual II Magnum Roundup PowerMax AMS | 8.5 lb/100 gal | C   |           | 0 e                                  | 88 b-e                               | 86 bc                                | 71 cd                                |                       |
|           |           |             |             |             |                     | 20 Dual II Magnum Impact Roundup PowerMax AMS | 8.5 lb/100 gal | C   |           | 0 e                                  | 80 fg                                 | 76 d                                  | 67 de                                |                       |
|           |           |             |             |             |                     | 21 Dual II Magnum Impact Roundup PowerMax AMS | 8.5 lb/100 gal | C   |           | 0 e                                  | 86 c-f                               | 72 de                                | 58 def                               |                       |

**LSD (P=.10)**

<table>
<thead>
<tr>
<th>6</th>
<th>16</th>
<th>21</th>
<th>27</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.3</td>
<td>6.6</td>
<td>9.5</td>
<td>17.0</td>
</tr>
<tr>
<td>Pest Name</td>
<td>Ladysthumb</td>
<td>Ladysthumb</td>
<td></td>
</tr>
<tr>
<td>-----------------</td>
<td>------------</td>
<td>------------</td>
<td></td>
</tr>
<tr>
<td>Crop Name</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rating Date</td>
<td>Jul-19-2010</td>
<td>Sep-14-2010</td>
<td></td>
</tr>
<tr>
<td>Rating Type</td>
<td>control</td>
<td>control</td>
<td></td>
</tr>
<tr>
<td>Rating Unit</td>
<td>%</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>Tri-Eval Interval</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trt</th>
<th>Treatment No.</th>
<th>Rate Name</th>
<th>Rate</th>
<th>Unit</th>
<th>Appl Code</th>
<th>22</th>
<th>28</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td></td>
<td>0</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Lumax</td>
<td>Touchdown Total</td>
<td>2 qt/a</td>
<td>fl oz/a</td>
<td>D</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Lexar</td>
<td>Touchdown Total</td>
<td>2.25 qt/a</td>
<td>fl oz/a</td>
<td>D</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Corvus</td>
<td>atrazine</td>
<td>3 fl oz/a</td>
<td>qt/a</td>
<td>B</td>
<td>100 a</td>
<td>99 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Touchdown Total</td>
<td>2.5 fl oz/a</td>
<td>fl oz/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Integrity</td>
<td>Touchdown Total</td>
<td>13 fl oz/a</td>
<td>fl oz/a</td>
<td>D</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>SureStart</td>
<td>Durango DMA</td>
<td>1.75 qt/a</td>
<td>fl oz/a</td>
<td>D</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMS</td>
<td>2 % v/v</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Balance Flexx</td>
<td>atrazine</td>
<td>3 fl oz/a</td>
<td>qt/a</td>
<td>B</td>
<td>100 a</td>
<td>99 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>fl oz/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Bicep II Magnum</td>
<td>Touchdown Total</td>
<td>1.3 qt/a</td>
<td>fl oz/a</td>
<td>D</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Bicep II Magnum</td>
<td>Halex GT</td>
<td>3.6 fl oz/a</td>
<td>pt/a</td>
<td>D</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Activator 90</td>
<td>0.25 % v/v</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Fierce</td>
<td>Touchdown Total</td>
<td>3 oz/a</td>
<td>fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Harness Xttra 6</td>
<td>Roundup PowerMax</td>
<td>1.25 qt/a</td>
<td>fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMS</td>
<td>17 lb/100 gal</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Nontreated</td>
<td></td>
<td>0 d</td>
<td></td>
<td></td>
<td>0 d</td>
<td>0 d</td>
</tr>
<tr>
<td>13</td>
<td>Dual II Magnum</td>
<td>0.75 pt/a</td>
<td></td>
<td></td>
<td></td>
<td>89 b</td>
<td>75 b</td>
</tr>
<tr>
<td>14</td>
<td>Dual II Magnum</td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meth Oil</td>
<td>1 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>28% UAN</td>
<td>2.5 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Dual II Magnum</td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>fl oz/a</td>
<td>C</td>
<td>86 b</td>
<td>79 b</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Basagran</td>
<td>0.75 pt/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meth Oil</td>
<td>1 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>28% UAN</td>
<td>2.5 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Dual II Magnum</td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>fl oz/a</td>
<td>C</td>
<td>75 c</td>
<td>60 c</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cadet</td>
<td>0.5 fl oz/a</td>
<td>fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crop Oil Concentrate</td>
<td>1 % v/v</td>
<td>fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>28% UAN</td>
<td>2.5 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Dual II Magnum</td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>fl oz/a</td>
<td>C</td>
<td>99 a</td>
<td>99 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meth Oil</td>
<td>1 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>28% UAN</td>
<td>2.5 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Dual II Magnum</td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>fl oz/a</td>
<td>C</td>
<td>84 b</td>
<td>71 bc</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meth Oil</td>
<td>1 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>28% UAN</td>
<td>2.5 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Dual II Magnum</td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>fl oz/a</td>
<td>C</td>
<td>100 a</td>
<td>99 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Roundup PowerMax</td>
<td>22 fl oz/a</td>
<td>fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Dual II Magnum</td>
<td>Impact</td>
<td>0.5 fl oz/a</td>
<td>fl oz/a</td>
<td>C</td>
<td>97 a</td>
<td>97 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Roundup PowerMax</td>
<td>22 fl oz/a</td>
<td>fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Dual II Magnum</td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>fl oz/a</td>
<td>C</td>
<td>96 a</td>
<td>95 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Roundup PowerMax</td>
<td>11 fl oz/a</td>
<td>fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>HSOC</td>
<td>0.5 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LSD (P=.10) 6.7 11.7
<table>
<thead>
<tr>
<th>Pest Name</th>
<th>Crop Name</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Rating Unit</th>
<th>LSD (P=.10)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Oct-14-2010</td>
<td>YIELD</td>
<td>BU</td>
<td>22.4</td>
</tr>
</tbody>
</table>

### Trt No. Name | Treatment | Rate | Unit | Appl Code | LSD (P=.10) |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Nontreated</td>
<td></td>
<td>216</td>
<td>a-d</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Lumax</td>
<td></td>
<td>32</td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Lexar</td>
<td></td>
<td>217</td>
<td>a-d</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Corvus</td>
<td></td>
<td>213</td>
<td>a-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>atrazine</td>
<td></td>
<td>1 qt/a</td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Integrity</td>
<td></td>
<td>209</td>
<td>a-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 SureStart</td>
<td></td>
<td>222</td>
<td>ab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Durango DMA</td>
<td></td>
<td>22</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 % v/v</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 Balance Flexx</td>
<td></td>
<td>229</td>
<td>a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>atrazine</td>
<td></td>
<td>1 qt/a</td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 Bicep II Magnum</td>
<td></td>
<td>211</td>
<td>a-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Touchdown Total</td>
<td></td>
<td>24 fl oz/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 Bicep II Magnum</td>
<td></td>
<td>200</td>
<td>b-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Halex GT</td>
<td></td>
<td>207</td>
<td>a-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Activator 90</td>
<td></td>
<td>1.25</td>
<td>fl oz/a</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 Fierce</td>
<td></td>
<td>192</td>
<td>e</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 Harness Xtra 6</td>
<td></td>
<td>220</td>
<td>abc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roundup PowerMax</td>
<td></td>
<td>17</td>
<td>lb/100 gal</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2.5 lb/a</td>
<td>D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 Nontreated</td>
<td></td>
<td>24</td>
<td>g</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13 Dual II Magnum</td>
<td></td>
<td>57</td>
<td>f</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 Dual II Magnum</td>
<td></td>
<td>209</td>
<td>a-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impact</td>
<td></td>
<td>209</td>
<td>a-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>atrazine</td>
<td></td>
<td>28% UAN</td>
<td>2.5 % v/v</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Meth Oil</td>
<td></td>
<td>1 % v/v</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 Dual II Magnum</td>
<td></td>
<td>192</td>
<td>e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impact</td>
<td></td>
<td>192</td>
<td>e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basagran</td>
<td></td>
<td>1 % v/v</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meth Oil</td>
<td></td>
<td>28% UAN</td>
<td>2.5 % v/v</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>16 Dual II Magnum</td>
<td></td>
<td>199</td>
<td>cde</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impact</td>
<td></td>
<td>199</td>
<td>cde</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cadet</td>
<td></td>
<td>28% UAN</td>
<td>2.5 % v/v</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Crop Oil Concentrate</td>
<td></td>
<td>28% UAN</td>
<td>2.5 % v/v</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>17 Dual II Magnum</td>
<td></td>
<td>202</td>
<td>b-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lauidis</td>
<td></td>
<td>202</td>
<td>b-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>atrazine</td>
<td></td>
<td>28% UAN</td>
<td>2.5 % v/v</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Meth Oil</td>
<td></td>
<td>1 % v/v</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 Dual II Magnum</td>
<td></td>
<td>195</td>
<td>de</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impact</td>
<td></td>
<td>195</td>
<td>de</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meth Oil</td>
<td></td>
<td>28% UAN</td>
<td>2.5 % v/v</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>19 Dual II Magnum</td>
<td></td>
<td>200</td>
<td>b-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roundup PowerMax</td>
<td></td>
<td>200</td>
<td>b-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td>200</td>
<td>b-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 Dual II Magnum</td>
<td></td>
<td>209</td>
<td>a-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impact</td>
<td></td>
<td>209</td>
<td>a-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roundup PowerMax</td>
<td></td>
<td>209</td>
<td>a-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td>209</td>
<td>a-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21 Dual II Magnum</td>
<td></td>
<td>208</td>
<td>a-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impact</td>
<td></td>
<td>208</td>
<td>a-e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roundup PowerMax</td>
<td></td>
<td>208</td>
<td>a-e</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
University of Wisconsin-Madison
Soil-Applied Herbicide Evaluation on Field Corn

<table>
<thead>
<tr>
<th>Trial ID: 10ARLCN04</th>
<th>Protocol ID: 10ARLCN04</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location: Arlington-452</td>
<td>Study Director: Investigator: C. M. Boerboom</td>
</tr>
<tr>
<td>Project ID:</td>
<td>Sponsoring Investigator: C. M. Boerboom</td>
</tr>
</tbody>
</table>

General Trial Information

<table>
<thead>
<tr>
<th>Study Director: T.L. Trower</th>
<th>Title: Sr. Outreach Specialist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investigator: C. M. Boerboom</td>
<td>Discipline: Herbicide</td>
</tr>
<tr>
<td>Initiation Date: Apr-28-2010</td>
<td></td>
</tr>
</tbody>
</table>

Trial Location

<table>
<thead>
<tr>
<th>City: Arlington</th>
<th>State Prov: WI</th>
</tr>
</thead>
</table>

Personnel

<table>
<thead>
<tr>
<th>Study Director: T.L. Trower</th>
<th>Title: Sr. Outreach Specialist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investigator: C. M. Boerboom</td>
<td>Affiliation: UW-Madison</td>
</tr>
<tr>
<td>Address: 1575 Linden Dr.</td>
<td>Location: Madison, WI</td>
</tr>
<tr>
<td>Postal Code: 53706</td>
<td>E-mail: <a href="mailto:tltrower@wisc.edu">tltrower@wisc.edu</a></td>
</tr>
<tr>
<td>Mobile No.: 608-393-3173</td>
<td></td>
</tr>
</tbody>
</table>

Crop Description

<table>
<thead>
<tr>
<th>Crop 1</th>
<th>ZEAMD Zea mays indentata</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variety: DKC 48-37</td>
<td>Dent corn</td>
</tr>
<tr>
<td>BBCH Scale: BCOR</td>
<td>Description: VT3</td>
</tr>
<tr>
<td>Planting Method: SEEDED seeded</td>
<td>Planting Date: Apr-28-2010</td>
</tr>
<tr>
<td>Depth, Unit: 1.5 IN</td>
<td>Rate, Unit: 32500 S/A</td>
</tr>
<tr>
<td>Row Spacing, Unit: 30 IN</td>
<td>Spacing Within Row, Unit: 7 IN</td>
</tr>
<tr>
<td>Seed Bed: SMOOTH smooth</td>
<td>Soil Moisture: NORMAL normal</td>
</tr>
<tr>
<td>Harvest Date: Oct-17-2010</td>
<td>Harvested Length, Unit: 25 FT</td>
</tr>
<tr>
<td>Harvested Width, Unit: 5 FT</td>
<td></td>
</tr>
</tbody>
</table>

Pest Description

<table>
<thead>
<tr>
<th>Pest 1 Type: W</th>
<th>Code: ABUTH Abutilon theophrasti</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Name: Velvetleaf</td>
<td></td>
</tr>
<tr>
<td>Pest 2 Type: W</td>
<td>Code: CHEAL Chenopodium album</td>
</tr>
<tr>
<td>Common Name: Common lambsquarters</td>
<td></td>
</tr>
<tr>
<td>Pest 3 Type: W</td>
<td>Code: AMBEL Ambrosia artemisiifolia</td>
</tr>
<tr>
<td>Common Name: Common ragweed</td>
<td></td>
</tr>
<tr>
<td>Pest 4 Type: W</td>
<td>Code: SETFA Setaria faberi</td>
</tr>
<tr>
<td>Common Name: Giant foxtail</td>
<td></td>
</tr>
<tr>
<td>Pest 5 Type: W</td>
<td>Code: AMARE Amaranthus retroflexus</td>
</tr>
<tr>
<td>Common Name: Redroot pigweed</td>
<td></td>
</tr>
</tbody>
</table>

Site and Design

<table>
<thead>
<tr>
<th>Plot Width, Unit: 10 FT</th>
<th>Site Type: CROP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plot Length, Unit: 25 FT</td>
<td>Tillage Type: CONTIL</td>
</tr>
<tr>
<td>Plot Area, Unit: 250 FT2</td>
<td>Study Design: RACOBBL</td>
</tr>
<tr>
<td>Replications: 4</td>
<td>conventional-till</td>
</tr>
<tr>
<td></td>
<td>Randomized Complete Block (RCB)</td>
</tr>
</tbody>
</table>

Soil Description

<table>
<thead>
<tr>
<th>Description Name: Silt Loam</th>
<th>Texture: 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Sand: 6</td>
<td>% OM: 3.7</td>
</tr>
<tr>
<td>% Silt: 71</td>
<td>pH: 6.7</td>
</tr>
<tr>
<td>% Clay: 23</td>
<td>CEC: 12</td>
</tr>
</tbody>
</table>
### Additional Measured Elements

<table>
<thead>
<tr>
<th>Element</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphorus</td>
<td>22</td>
<td>ppm</td>
</tr>
<tr>
<td>Potassium</td>
<td>103</td>
<td>ppm</td>
</tr>
<tr>
<td>Calcium</td>
<td>1596</td>
<td>ppm</td>
</tr>
<tr>
<td>Magnesium</td>
<td>474</td>
<td>ppm</td>
</tr>
</tbody>
</table>

### Application Description

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Date:</td>
<td>Apr 28, 2010</td>
<td>May 6, 2010</td>
<td>Jun 13, 2010</td>
</tr>
<tr>
<td>Time of Day:</td>
<td>11:45 AM</td>
<td>1:00 PM</td>
<td>2:30 PM</td>
</tr>
<tr>
<td>Application Method:</td>
<td>Broadcast</td>
<td>Broadcast</td>
<td>Broadcast</td>
</tr>
<tr>
<td>Application Timing:</td>
<td>PREPLA</td>
<td>Preemg</td>
<td>Post</td>
</tr>
<tr>
<td>Application Placement:</td>
<td>Surface</td>
<td>Surface</td>
<td>Surface</td>
</tr>
<tr>
<td>Applied By:</td>
<td>T. Trower</td>
<td>T. Trower</td>
<td>T. Trower</td>
</tr>
<tr>
<td>Air Temperature, Unit:</td>
<td>57°F</td>
<td>66°F</td>
<td>72°F</td>
</tr>
<tr>
<td>% Relative Humidity:</td>
<td>34%</td>
<td>42%</td>
<td>81%</td>
</tr>
<tr>
<td>Wind Velocity, Unit:</td>
<td>7 MPH</td>
<td>0 MPH</td>
<td>2 MPH</td>
</tr>
<tr>
<td>Wind Direction:</td>
<td>SSW</td>
<td>SE</td>
<td></td>
</tr>
<tr>
<td>Dew Presence (Y/N):</td>
<td>N no</td>
<td>N no</td>
<td>N no</td>
</tr>
<tr>
<td>Soil Temperature, Unit:</td>
<td>50°F</td>
<td>66°F</td>
<td>74°F</td>
</tr>
<tr>
<td>Soil Moisture:</td>
<td>DRY/MAST</td>
<td>DRY/MAST</td>
<td>MOIST</td>
</tr>
<tr>
<td>% Cloud Cover:</td>
<td>0</td>
<td>10</td>
<td>100</td>
</tr>
</tbody>
</table>

### Crop Stage At Each Application

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crop 1 Code, BBCH Scale:</td>
<td>ZEAMD BCOR</td>
<td>ZEAMD BCOR</td>
<td>ZEAMD BCOR</td>
</tr>
<tr>
<td>Stage Scale Used:</td>
<td>BBCH</td>
<td>BBCH</td>
<td>BBCH</td>
</tr>
<tr>
<td>Stage Majority, Percent:</td>
<td>PREPLT</td>
<td>PREEMG</td>
<td>POSTEMG</td>
</tr>
<tr>
<td>Stage Minimum, Percent:</td>
<td>V5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stage Maximum, Percent:</td>
<td></td>
<td>V6</td>
<td></td>
</tr>
<tr>
<td>Height, Unit:</td>
<td>14 IN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>13 15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Pest Stage At Each Application

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pest 1 Code, Type, Scale:</td>
<td>ABUTH W</td>
<td>ABUTH W</td>
<td>ABUTH W</td>
</tr>
<tr>
<td>Stage Majority, Percent:</td>
<td>COTY</td>
<td>3 lvs</td>
<td></td>
</tr>
<tr>
<td>Stage Minimum, Percent:</td>
<td></td>
<td>4 lvs</td>
<td></td>
</tr>
<tr>
<td>Height, Unit:</td>
<td>0.25 IN</td>
<td>3 IN</td>
<td></td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>2 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density, Unit:</td>
<td>3 FT2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pest 2 Code, Type, Scale:</td>
<td>CHEAL W</td>
<td>CHEAL W</td>
<td>CHEAL W</td>
</tr>
<tr>
<td>Stage Majority, Percent:</td>
<td>COTY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height, Unit:</td>
<td>0.25 IN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density, Unit:</td>
<td>3 FT2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pest 3 Code, Type, Scale:</td>
<td>AMBEL W</td>
<td>AMBEL W</td>
<td>AMBEL W</td>
</tr>
<tr>
<td>Stage Majority, Percent:</td>
<td></td>
<td>4 lvs</td>
<td></td>
</tr>
<tr>
<td>Stage Minimum, Percent:</td>
<td>6 lvs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height, Unit:</td>
<td></td>
<td>3 IN</td>
<td></td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>2 4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Application Equipment

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment Type:</td>
<td>SPRBAC</td>
<td>SPRBAC</td>
<td>SPRBAC</td>
</tr>
<tr>
<td>Operating Pressure, Unit:</td>
<td>23 PSI</td>
<td>23 PSI</td>
<td>23 PSI</td>
</tr>
<tr>
<td>Nozzle Type:</td>
<td>XR</td>
<td>XR</td>
<td>XR</td>
</tr>
<tr>
<td>Nozzle Size:</td>
<td>8003</td>
<td>8003</td>
<td>8003</td>
</tr>
<tr>
<td>Nozzle Spacing, Unit:</td>
<td>20 IN</td>
<td>20 IN</td>
<td>20 IN</td>
</tr>
<tr>
<td>% Coverage:</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Boom ID:</td>
<td>20 GPA</td>
<td>20 GPA</td>
<td>20 GPA</td>
</tr>
<tr>
<td>Boom Length, Unit:</td>
<td>10 FT</td>
<td>10 FT</td>
<td>10 FT</td>
</tr>
<tr>
<td>Boom Height, Unit:</td>
<td>19 IN</td>
<td>19 IN</td>
<td>19 IN</td>
</tr>
<tr>
<td>Ground Speed, Unit:</td>
<td>3 MPH</td>
<td>3 MPH</td>
<td>3 MPH</td>
</tr>
<tr>
<td>Carrier:</td>
<td>WATER</td>
<td>WATER</td>
<td>WATER</td>
</tr>
<tr>
<td>Spray Volume, Unit:</td>
<td>20 gal/ac</td>
<td>20 gal/ac</td>
<td>20 gal/ac</td>
</tr>
<tr>
<td>Mix Size, Unit:</td>
<td>2.2 liters</td>
<td>2.2 liters</td>
<td>2.2 liters</td>
</tr>
<tr>
<td>Propellant:</td>
<td>COMCO2</td>
<td>COMCO2</td>
<td>COMCO2</td>
</tr>
<tr>
<td>Trt No.</td>
<td>Treatment Name</td>
<td>Rate</td>
<td>Unit</td>
</tr>
<tr>
<td>---------</td>
<td>----------------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td>1</td>
<td>Nontreated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Lumax</td>
<td>2.5</td>
<td>qt/a</td>
</tr>
<tr>
<td>3</td>
<td>Lexar</td>
<td>3</td>
<td>qt/a</td>
</tr>
<tr>
<td>4</td>
<td>Corvus</td>
<td>5.6</td>
<td>fl oz/a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>qt/a</td>
</tr>
<tr>
<td>5</td>
<td>Integrity</td>
<td>20</td>
<td>fl oz/a</td>
</tr>
<tr>
<td>6</td>
<td>Integrity</td>
<td>13</td>
<td>fl oz/a</td>
</tr>
<tr>
<td>7</td>
<td>Sharpen</td>
<td>2.5</td>
<td>fl oz/a</td>
</tr>
<tr>
<td></td>
<td>G-Max Lite</td>
<td>3.3</td>
<td>pt/a</td>
</tr>
<tr>
<td>8</td>
<td>Fierce</td>
<td>3</td>
<td>oz/a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>qt/a</td>
</tr>
<tr>
<td>9</td>
<td>G-Max Lite</td>
<td>3.33</td>
<td>pt/a</td>
</tr>
<tr>
<td>10</td>
<td>Integrity</td>
<td>16</td>
<td>fl oz/a</td>
</tr>
<tr>
<td></td>
<td>G-Max Lite</td>
<td>1</td>
<td>pt/a</td>
</tr>
<tr>
<td>11</td>
<td>Integrity</td>
<td>13</td>
<td>fl oz/a</td>
</tr>
<tr>
<td></td>
<td>G-Max Lite</td>
<td>1.5</td>
<td>pt/a</td>
</tr>
<tr>
<td>12</td>
<td>Integrity</td>
<td>13</td>
<td>fl oz/a</td>
</tr>
<tr>
<td></td>
<td>Outlook</td>
<td>9</td>
<td>fl oz/a</td>
</tr>
<tr>
<td>13</td>
<td>Integrity</td>
<td>13</td>
<td>fl oz/a</td>
</tr>
<tr>
<td></td>
<td>Roundup</td>
<td>22</td>
<td>fl oz/a</td>
</tr>
<tr>
<td></td>
<td>PowerMax</td>
<td></td>
<td>lb/100 gal</td>
</tr>
<tr>
<td>14</td>
<td>Integrity</td>
<td>13</td>
<td>fl oz/a</td>
</tr>
<tr>
<td></td>
<td>Status</td>
<td>2.5</td>
<td>oz/a</td>
</tr>
<tr>
<td></td>
<td>Roundup</td>
<td>22</td>
<td>fl oz/a</td>
</tr>
<tr>
<td></td>
<td>PowerMax</td>
<td></td>
<td>lb/100 gal</td>
</tr>
<tr>
<td>15</td>
<td>Sharpen</td>
<td>2.5</td>
<td>fl oz/a</td>
</tr>
<tr>
<td></td>
<td>Harness Xtra</td>
<td>2.5</td>
<td>qt/a</td>
</tr>
</tbody>
</table>

LSD (P=.10) 0.0 0.0 0.0 21.5
### Soil-Applied Herbicide Evaluation on Field Corn

<table>
<thead>
<tr>
<th>Pest Name</th>
<th>Pest Type</th>
<th>Crop Name</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Rating Unit</th>
<th>Trt Eval Interval</th>
<th>Common lambsqu&gt; W Weed</th>
<th>Common lambsqu&gt; W Weed</th>
<th>Common lambsqu&gt; W Weed</th>
<th>Common lambsqu&gt; W Weed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Jun-4-2010</td>
<td>control</td>
<td>%</td>
<td>37 DA-A</td>
<td>0 c</td>
<td>0 d</td>
<td>0 c</td>
<td>0 c</td>
</tr>
<tr>
<td>1 Nontreated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Lumax</td>
<td>Weed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>3 Lexar</td>
<td>Weed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>4 Corvus</td>
<td>Weed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>5 Integrity</td>
<td>Weed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>99 ab</td>
<td>99 ab</td>
<td>99 b</td>
</tr>
<tr>
<td>6 Integrity</td>
<td>Weed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>97 c</td>
<td>99 b</td>
<td>100 a</td>
</tr>
<tr>
<td>7 Sharpen</td>
<td>Weed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>8 Fierce</td>
<td>Weed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>98 bc</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>9 G-Max Lite</td>
<td>Weed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>100 ab</td>
<td>99 ab</td>
<td>99 b</td>
</tr>
<tr>
<td>10 Integrity</td>
<td>Weed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>11 Integrity</td>
<td>Weed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>12 Integrity</td>
<td>Weed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>13 Integrity</td>
<td>Weed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>14 Integrity</td>
<td>Weed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>15 Sharpen</td>
<td>Weed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>Harness Xtra</td>
<td>Weed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
</tbody>
</table>

**LSD (P=.10)**

<table>
<thead>
<tr>
<th>LSD (P=.10)</th>
<th>0.8</th>
<th>2.2</th>
<th>1.0</th>
<th>1.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trt No.</td>
<td>Treatment</td>
<td>Rate</td>
<td>Unit</td>
<td>Code</td>
</tr>
<tr>
<td>---------</td>
<td>-----------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td>1</td>
<td>Nontreated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Lumax</td>
<td>2.5</td>
<td>qt/a</td>
<td>B</td>
</tr>
<tr>
<td>3</td>
<td>Lexar</td>
<td>3</td>
<td>qt/a</td>
<td>B</td>
</tr>
<tr>
<td>4</td>
<td>Corvus</td>
<td>5.6</td>
<td>fl oz/a</td>
<td>B</td>
</tr>
<tr>
<td>5</td>
<td>Integrity</td>
<td>20</td>
<td>fl oz/a</td>
<td>B</td>
</tr>
<tr>
<td>6</td>
<td>Integrity</td>
<td>13</td>
<td>fl oz/a</td>
<td>B</td>
</tr>
<tr>
<td>7</td>
<td>Sharpen</td>
<td>2.5</td>
<td>fl oz/a</td>
<td>B</td>
</tr>
<tr>
<td>8</td>
<td>Fierce</td>
<td>3</td>
<td>oz/a</td>
<td>A</td>
</tr>
<tr>
<td>9</td>
<td>G-Max Lite</td>
<td>3.33</td>
<td>pt/a</td>
<td>B</td>
</tr>
<tr>
<td>10</td>
<td>Integrity</td>
<td>16</td>
<td>fl oz/a</td>
<td>B</td>
</tr>
<tr>
<td>11</td>
<td>Integrity</td>
<td>13</td>
<td>fl oz/a</td>
<td>B</td>
</tr>
<tr>
<td>12</td>
<td>Integrity</td>
<td>13</td>
<td>fl oz/a</td>
<td>B</td>
</tr>
<tr>
<td>13</td>
<td>Integrity</td>
<td>13</td>
<td>fl oz/a</td>
<td>B</td>
</tr>
<tr>
<td>14</td>
<td>Integrity</td>
<td>13</td>
<td>fl oz/a</td>
<td>B</td>
</tr>
<tr>
<td>15</td>
<td>Sharpen</td>
<td>2.5</td>
<td>fl oz/a</td>
<td>B</td>
</tr>
</tbody>
</table>

| LSD (P=.10) | 12.3 | 14.7 | 23.4 | 29.4 |
## Soil-Applied Herbicide Evaluation on Field Corn

<table>
<thead>
<tr>
<th>Pest Name</th>
<th>Giant foxtail</th>
<th>Giant foxtail</th>
<th>Giant foxtail</th>
<th>Giant foxtail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pest Type</td>
<td>W Weed</td>
<td>W Weed</td>
<td>W Weed</td>
<td>W Weed</td>
</tr>
<tr>
<td>Crop Name</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rating Date</td>
<td>Jun-4-2010</td>
<td>Jun-21-2010</td>
<td>Jul-12-2010</td>
<td>Oct-14-2010</td>
</tr>
<tr>
<td>Rating Type</td>
<td>control</td>
<td>control</td>
<td>control</td>
<td>control</td>
</tr>
<tr>
<td>Rating Unit</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
</tr>
<tr>
<td>Trt-Eval Interval</td>
<td>37 DA-A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment</th>
<th>Rate</th>
<th>Unit</th>
<th>Code</th>
<th>Rate</th>
<th>Unit</th>
<th>Code</th>
<th>Rate</th>
<th>Unit</th>
<th>Code</th>
<th>Rate</th>
<th>Unit</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td>0 e</td>
<td>0 g</td>
<td>0 f</td>
<td>0 d</td>
<td>0 e</td>
<td>0 g</td>
<td>0 f</td>
<td>0 d</td>
<td>0 e</td>
<td>0 g</td>
<td>0 f</td>
<td>0 d</td>
</tr>
<tr>
<td>2</td>
<td>Lumax</td>
<td>2.5 qt/a</td>
<td>B</td>
<td>98 bcd</td>
<td>93 cde</td>
<td>93 bcd</td>
<td>92 ab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Lexar</td>
<td>3 qt/a</td>
<td>B</td>
<td>99 abc</td>
<td>94 bcd</td>
<td>95 abc</td>
<td>95 ab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Corvus</td>
<td>5.6 fl oz/a</td>
<td>B</td>
<td>97 cd</td>
<td>96 a-d</td>
<td>97 ab</td>
<td>99 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Integrity</td>
<td>20 fl oz/a</td>
<td>B</td>
<td>99 ab</td>
<td>94 bcd</td>
<td>93 bcd</td>
<td>85 b</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Integrity</td>
<td>13 fl oz/a</td>
<td>B</td>
<td>97 d</td>
<td>83 f</td>
<td>76 e</td>
<td>58 c</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Sharpen</td>
<td>2.5 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>93 cde</td>
<td>96 abc</td>
<td>98 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Fierce</td>
<td>3 oz/a</td>
<td>A</td>
<td>99 abc</td>
<td>88 ef</td>
<td>88 d</td>
<td>86 b</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>G-Max Lite</td>
<td>3.33 pt/a</td>
<td>B</td>
<td>100 a</td>
<td>98 abc</td>
<td>97 abc</td>
<td>96 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Integ.</td>
<td>16 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>91 de</td>
<td>94 abc</td>
<td>95 ab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Integ.</td>
<td>15 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>99 ab</td>
<td>97 abc</td>
<td>96 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Integ.</td>
<td>13 fl oz/a</td>
<td>B</td>
<td>99 ab</td>
<td>85 f</td>
<td>92 cd</td>
<td>94 ab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Integ.</td>
<td>13 fl oz/a</td>
<td>B</td>
<td>98 bcd</td>
<td>100 a</td>
<td>99 a</td>
<td>100 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Integ.</td>
<td>13 fl oz/a</td>
<td>B</td>
<td>94</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Sharpen</td>
<td>2.5 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>95 bcd</td>
<td>95 abc</td>
<td>97 a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<p>| LSD (P=.10) | 1.9 | 5.4 | 5.6 | 10.1 |</p>
<table>
<thead>
<tr>
<th>Pest Name</th>
<th>Redroot pigweed</th>
<th>Rating Date</th>
<th>Oct-14-2010</th>
<th>Redroot pigweed</th>
<th>Jul-12-2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pest Type</td>
<td>Weed</td>
<td>control</td>
<td>control</td>
<td>Weed</td>
<td>control</td>
</tr>
<tr>
<td>Crop Name</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rating Date</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rating Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rating Unit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Trt Eval Interval**

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment</th>
<th>Rate</th>
<th>Unit</th>
<th>Code</th>
<th>Rate</th>
<th>Unit</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td>0 c</td>
<td>0 b</td>
<td></td>
<td>19</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Lumax</td>
<td>2.5 qt/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td>3</td>
<td>Lexar</td>
<td>3 qt/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td>4</td>
<td>Corvus</td>
<td>5.6 fl oz/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 qt/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td>5</td>
<td>Integrity</td>
<td>20 fl oz/a</td>
<td>B</td>
<td></td>
<td>98 ab</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td>6</td>
<td>Integrity</td>
<td>13 fl oz/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td>7</td>
<td>Sharpener</td>
<td>2.5 fl oz/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>G-Max Lite</td>
<td>3.3 lb/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td>8</td>
<td>Fierce</td>
<td>3 oz/a</td>
<td>A</td>
<td></td>
<td>95 b</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 qt/a</td>
<td>A</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td>9</td>
<td>G-Max Lite</td>
<td>3.33 lb/a</td>
<td>B</td>
<td></td>
<td>98 ab</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td>10</td>
<td>Integrity</td>
<td>13 fl oz/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>G-Max Lite</td>
<td>1 lb/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td>11</td>
<td>Integrity</td>
<td>13 fl oz/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>G-Max Lite</td>
<td>1.5 lb/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td>12</td>
<td>Integrity</td>
<td>13 fl oz/a</td>
<td>B</td>
<td></td>
<td>95 b</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Outlook</td>
<td>9 fl oz/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td>13</td>
<td>Integrity</td>
<td>13 fl oz/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Roundup PowerMax</td>
<td>22 fl oz/a</td>
<td>C</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>17 lb/100 gal</td>
<td>C</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td>14</td>
<td>Integrity</td>
<td>13 fl oz/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Status</td>
<td>2.5 oz/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Roundup PowerMax</td>
<td>22 fl oz/a</td>
<td>C</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>17 lb/100 gal</td>
<td>C</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td>15</td>
<td>Sharpener</td>
<td>2.5 fl oz/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Harness Xtra</td>
<td>2.5 qt/a</td>
<td>B</td>
<td></td>
<td>100 a</td>
<td></td>
<td>100 a</td>
</tr>
</tbody>
</table>

**LSD (P=.10)**

|         | 4.3 | 0.0 |
## Soil-Applied Herbicide Evaluation on Field Corn

<table>
<thead>
<tr>
<th>Pest Name</th>
<th>Common ragweed</th>
<th>Common ragweed</th>
<th>Common ragweed</th>
<th>Common ragweed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common ragweed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Crop Name</strong></td>
<td><strong>Rating</strong></td>
<td><strong>Date</strong></td>
<td><strong>Rating</strong></td>
<td><strong>Date</strong></td>
</tr>
<tr>
<td><strong>Rating Type</strong></td>
<td><strong>Rating Unit</strong></td>
<td><strong>Trt-Eval Interval</strong></td>
<td><strong>Rating Type</strong></td>
<td><strong>Rating Unit</strong></td>
</tr>
<tr>
<td>Nontreated</td>
<td>0 d</td>
<td>37 DA-A</td>
<td>control</td>
<td>control</td>
</tr>
<tr>
<td>Lumax</td>
<td>2.5 qt/a</td>
<td>B</td>
<td>99 a</td>
<td>100 a</td>
</tr>
<tr>
<td>Lexar</td>
<td>3 qt/a</td>
<td>B</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>Corvus atrazine</td>
<td>5.6 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>Integrity 5</td>
<td>20 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>97 ab</td>
</tr>
<tr>
<td>Integrity 6</td>
<td>13 fl oz/a</td>
<td>B</td>
<td>97 a</td>
<td>92 bc</td>
</tr>
<tr>
<td>Sharpener 7</td>
<td>2.5 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>98 ab</td>
</tr>
<tr>
<td>G-Max Lite 8</td>
<td>3.3 pt/a</td>
<td>B</td>
<td>100 a</td>
<td>99 a</td>
</tr>
<tr>
<td>Fierce 9</td>
<td>3 oz/a</td>
<td>A</td>
<td>95 ab</td>
<td>91 c</td>
</tr>
<tr>
<td>G-Max Lite 10</td>
<td>16 fl oz/a</td>
<td>B</td>
<td>99 a</td>
<td>99 a</td>
</tr>
<tr>
<td>G-Max Lite 11</td>
<td>13 fl oz/a</td>
<td>B</td>
<td>98 a</td>
<td>98 a</td>
</tr>
<tr>
<td>G-Max Lite 12</td>
<td>13 fl oz/a</td>
<td>B</td>
<td>91 b</td>
<td>90 c</td>
</tr>
<tr>
<td>G-Max Lite 13</td>
<td>13 fl oz/a</td>
<td>B</td>
<td>83 c</td>
<td>100 a</td>
</tr>
<tr>
<td>Harness Xtra 14</td>
<td>13 fl oz/a</td>
<td>B</td>
<td>84</td>
<td>100</td>
</tr>
<tr>
<td>Fierce 15</td>
<td>2.5 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>Harness Xtra 16</td>
<td>2.5 qt/a</td>
<td>B</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td><strong>LSD (P=.10)</strong></td>
<td>6.2</td>
<td>5.8</td>
<td>6.2</td>
<td>7.1</td>
</tr>
</tbody>
</table>
## Soil-Applied Herbicide Evaluation on Field Corn

**Pest Name**: Velvetleaf  
**Pest Type**: Weed  
**Crop Name**:  
**Rating Date**:  
**Rating Type**: control  
**Rating Unit**:  
**Trt-Eval Interval**: 37 DA

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment</th>
<th>Rate</th>
<th>Unit</th>
<th>Code</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Rating Unit</th>
<th>LSD (P=.10)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td>0 d</td>
<td>d</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8.4</td>
</tr>
<tr>
<td>2</td>
<td>Lumax</td>
<td>2.5</td>
<td>qt/a</td>
<td>B</td>
<td>Jun-4-2010</td>
<td>control</td>
<td>0 c</td>
<td>4.3</td>
</tr>
<tr>
<td>3</td>
<td>Lexar</td>
<td>3</td>
<td>qt/a</td>
<td>B</td>
<td>Jun-4-2010</td>
<td>control</td>
<td>0 c</td>
<td>4.3</td>
</tr>
<tr>
<td>4</td>
<td>Corvus</td>
<td>5.6</td>
<td>fl oz/a</td>
<td>B</td>
<td>Jun-4-2010</td>
<td>control</td>
<td>0 c</td>
<td>9.8</td>
</tr>
<tr>
<td>5</td>
<td>Integrity</td>
<td>20</td>
<td>fl oz/a</td>
<td>B</td>
<td>Jun-4-2010</td>
<td>control</td>
<td>0 c</td>
<td>9.8</td>
</tr>
<tr>
<td>6</td>
<td>Integrity</td>
<td>13</td>
<td>fl oz/a</td>
<td>B</td>
<td>Jun-4-2010</td>
<td>control</td>
<td>0 c</td>
<td>9.8</td>
</tr>
<tr>
<td>7</td>
<td>Sharpen</td>
<td>12</td>
<td>fl oz/a</td>
<td>B</td>
<td>Jun-4-2010</td>
<td>control</td>
<td>0 c</td>
<td>9.8</td>
</tr>
<tr>
<td>8</td>
<td>Fierce</td>
<td>3</td>
<td>oz/a</td>
<td>A</td>
<td>Jun-4-2010</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>G-Max Lite</td>
<td>1.5</td>
<td>pt/a</td>
<td>B</td>
<td>Jun-4-2010</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Integrity</td>
<td>16</td>
<td>fl oz/a</td>
<td>B</td>
<td>Jun-4-2010</td>
<td>control</td>
<td>0 c</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Integrity</td>
<td>13</td>
<td>fl oz/a</td>
<td>B</td>
<td>Jun-4-2010</td>
<td>control</td>
<td>0 c</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Integrity</td>
<td>13</td>
<td>fl oz/a</td>
<td>B</td>
<td>Jun-4-2010</td>
<td>control</td>
<td>0 c</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Integrity</td>
<td>13</td>
<td>fl oz/a</td>
<td>B</td>
<td>Jun-4-2010</td>
<td>control</td>
<td>0 c</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Integrity</td>
<td>13</td>
<td>fl oz/a</td>
<td>B</td>
<td>Jun-4-2010</td>
<td>control</td>
<td>0 c</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Sharpen</td>
<td>2.5</td>
<td>fl oz/a</td>
<td>B</td>
<td>Jun-4-2010</td>
<td>control</td>
<td>0 c</td>
<td></td>
</tr>
</tbody>
</table>

**Rate**

- **4**: 11
- **16**: 22
- **6**: 33
- **10**: 16
- **11**: 13
- **12**: 13
- **13**: 13
- **14**: 13
- **15**: 2.5

**Unit**

- **%**

**Code**

- **A**
- **B**
- **C**

**Status**

- **Roundup PowerMax AMS**
- **Harness Xtra**
- **Integrity**
- **G-Max Lite**
- **Lumax**
- **Lexar**
- **Corvus**
- **atrazine**
- **Fierce**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integrity**
- **G-Max Lite**
- **Integra...
## Callisto Xtra: Postemergence Evaluation on Field Corn

### Personnel

**Study Director:** T.L. Trower  
**Title:** Sr. Outreach Specialist  
**Affiliation:** UW-Madison  
**Address:** 1575 Linden Dr  
**Location:** Madison, WI  
**Postal Code:** 53706  
**E-mail:** tltrower@wisc.edu  
**Mobile No.:** 608-393-3173

### Crop Description

<table>
<thead>
<tr>
<th>Crop</th>
<th>Description</th>
<th>Variety</th>
<th>Planting Date</th>
<th>Rate, Unit</th>
<th>Row Spacing, Unit</th>
<th>Spacing Within Row, Unit</th>
<th>Soil Temperature, Unit</th>
<th>Emergence Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ZEAMD Zea mays indentata Dent corn</td>
<td>glyphosate/glufosina</td>
<td>BCOR</td>
<td>SEEDED seeded</td>
<td>30 IN</td>
<td>7 IN</td>
<td>52 F</td>
<td>Jun-8-2010</td>
</tr>
</tbody>
</table>

### Site and Design

<table>
<thead>
<tr>
<th>Plot Width, Unit</th>
<th>Site Type</th>
<th>Plot Length, Unit</th>
<th>Plot Area, Unit</th>
<th>Tillage Type</th>
<th>Study Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 FT</td>
<td>CROP</td>
<td>25 FT</td>
<td>250 FT2</td>
<td>CONTIL</td>
<td>RACOB</td>
</tr>
</tbody>
</table>

### Soil Description

<table>
<thead>
<tr>
<th>Description Name</th>
<th>Soil Name</th>
<th>Texture</th>
<th>% Sand</th>
<th>% OM</th>
<th>% Silt</th>
<th>% Clay</th>
<th>pH</th>
<th>Fert. Level</th>
<th>Fert. Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plano Silt Loam</td>
<td>Plano</td>
<td>SIL</td>
<td>7</td>
<td>3.9</td>
<td>70</td>
<td>23</td>
<td>5.9</td>
<td>excellent</td>
<td>excellent</td>
</tr>
</tbody>
</table>

### Application Description

<table>
<thead>
<tr>
<th>Application Date</th>
<th>Time of Day</th>
<th>Application Method</th>
<th>Application Timing</th>
<th>Applied By</th>
<th>Air Temperature, Unit</th>
<th>% Relative Humidity</th>
<th>Wind Velocity, Unit</th>
<th>Wind Direction</th>
<th>Dew Presence (Y/N)</th>
<th>Soil Temperature, Unit</th>
<th>Soil Moisture</th>
<th>% Cloud Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>May-4-2010</td>
<td>1:00P</td>
<td>Broadcast</td>
<td>Pre</td>
<td>T. Trower</td>
<td>76 F</td>
<td>43</td>
<td>7 MPH</td>
<td>S</td>
<td>N no</td>
<td>62 F</td>
<td>DRY/ MOIST</td>
<td>0</td>
</tr>
<tr>
<td>Jun-1-2010</td>
<td>8:00A</td>
<td>Broadcast</td>
<td>EPost</td>
<td>T. Trower</td>
<td>72 F</td>
<td>55</td>
<td>3 MPH</td>
<td>S</td>
<td>no</td>
<td>68 F</td>
<td>DRY/ MOIST</td>
<td>0</td>
</tr>
<tr>
<td>Jun-13-2010</td>
<td>2:30p</td>
<td>Broadcast</td>
<td>Post</td>
<td>T. Trower</td>
<td>72 F</td>
<td>81</td>
<td>1 MPH</td>
<td>SE</td>
<td>N no</td>
<td>74 F</td>
<td>SLIWET</td>
<td>100</td>
</tr>
</tbody>
</table>

### Application Equipment

<table>
<thead>
<tr>
<th>Equipment Type</th>
<th>Operating Pressure, Unit</th>
<th>Nozzle Type</th>
<th>Nozzle Size</th>
<th>Nozzle Spacing, Unit</th>
<th>% Coverage</th>
<th>Boom ID</th>
<th>Boom Length, Unit</th>
<th>Boom Height, Unit</th>
<th>Ground Speed, Unit</th>
<th>Carrier</th>
<th>Spray Volume, Unit</th>
<th>Mix Size, Unit</th>
<th>Propellant</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPRBAC</td>
<td>23 PSI</td>
<td>Flat Fan</td>
<td>XR 8003</td>
<td>20 IN</td>
<td>100.0</td>
<td>20 GPA</td>
<td>10 FT</td>
<td>19 IN</td>
<td>3 MPH</td>
<td>WATER</td>
<td>20 gal/ac</td>
<td>2.2 liters</td>
<td>COMCO2</td>
</tr>
<tr>
<td>SPRBAC</td>
<td>23 PSI</td>
<td>Flat Fan</td>
<td>XR 8003</td>
<td>20 IN</td>
<td>100</td>
<td>20 GPA</td>
<td>10 FT</td>
<td>19 IN</td>
<td>3 MPH</td>
<td>WATER</td>
<td>20 gal/ac</td>
<td>2.2 liters</td>
<td>COMCO2</td>
</tr>
<tr>
<td>SPRBAC</td>
<td>23 PSI</td>
<td>Flat Fan</td>
<td>XR 8003</td>
<td>20 IN</td>
<td>100</td>
<td>20 GPA</td>
<td>10 FT</td>
<td>19 IN</td>
<td>3 MPH</td>
<td>WATER</td>
<td>20 gal/ac</td>
<td>2.2 liters</td>
<td>COMCO2</td>
</tr>
</tbody>
</table>
# Callisto Xtra: Postemergence Evaluation on Field Corn

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment</th>
<th>Rate</th>
<th>Unit</th>
<th>Code</th>
<th>Giant foxtail control</th>
<th>Giant foxtail control</th>
<th>Giant foxtail control</th>
<th>Giant foxtail control</th>
<th>Giant foxtail control</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Callisto Xtra Touchdown Total AMS</td>
<td>16 fl oz/a B</td>
<td>2 lb/a B</td>
<td>0 c</td>
<td>100 a</td>
<td>95 cd</td>
<td>94 bc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Callisto Xtra Touchdown Total AMS</td>
<td>20 fl oz/a B</td>
<td>2 lb/a B</td>
<td>0 c</td>
<td>100 a</td>
<td>96 cd</td>
<td>94 bc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Callisto Xtra Touchdown Total AMS</td>
<td>24 fl oz/a B</td>
<td>2 lb/a B</td>
<td>0 c</td>
<td>100 a</td>
<td>93 d</td>
<td>91 cde</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Laudis Touchdown Total AMS</td>
<td>2 fl oz/a B</td>
<td>2 lb/a B</td>
<td>0 c</td>
<td>100 a</td>
<td>94 cd</td>
<td>89 de</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Impact Touchdown Total AMS</td>
<td>0.5 fl oz/a B</td>
<td>24 fl oz/a B</td>
<td>0 c</td>
<td>100 a</td>
<td>97 bc</td>
<td>87 e</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Status Touchdown Total AMS</td>
<td>2.5 fl oz/a B</td>
<td>24 fl oz/a B</td>
<td>0 c</td>
<td>100 a</td>
<td>99 ab</td>
<td>95 bc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Touchdown Total AMS</td>
<td>24 fl oz/a B</td>
<td>2 lb/a B</td>
<td>0 c</td>
<td>100 a</td>
<td>95 cd</td>
<td>89 de</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Callisto Xtra Crop Oil Concentrate AMS</td>
<td>20 fl oz/a B</td>
<td>1 % v/v</td>
<td>2 lb/a B</td>
<td>0 c</td>
<td>38 g</td>
<td>43 e</td>
<td>55 f</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Laudis atrazine Touchdown Total AMS</td>
<td>2 fl oz/a B</td>
<td>1 pt/a</td>
<td>2 lb/a B</td>
<td>0 c</td>
<td>100 a</td>
<td>96 bc</td>
<td>92 cd</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Impact atrazine Touchdown Total AMS</td>
<td>0.5 fl oz/a B</td>
<td>1 pt/a</td>
<td>2 lb/a B</td>
<td>0 c</td>
<td>100 a</td>
<td>100 a</td>
<td>97 ab</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Status atrazine Touchdown Total AMS</td>
<td>2.5 fl oz/a B</td>
<td>1 pt/a</td>
<td>2 lb/a B</td>
<td>0 c</td>
<td>100 a</td>
<td>100 a</td>
<td>98 ab</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Realm Q Crop Oil Concentrate AMS</td>
<td>4 fl oz/a B</td>
<td>1 % v/v</td>
<td>2 lb/a B</td>
<td>0 c</td>
<td>73 e</td>
<td>100 a</td>
<td>98 ab</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Cinch ATZ Crop Oil Concentrate AMS</td>
<td>1 qt/a B</td>
<td>4 oz/a B</td>
<td>1 % v/v</td>
<td>1 % v/v</td>
<td>2 lb/a B</td>
<td>2 lb/a B</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>15</td>
<td>Cinch ATZ Crop Oil Concentrate Abundit AMS</td>
<td>1 qt/a B</td>
<td>4 oz/a B</td>
<td>32 fl oz/a B</td>
<td>2 lb/a B</td>
<td>0 c</td>
<td>69 f</td>
<td>100 a</td>
<td>99 a</td>
</tr>
<tr>
<td>16</td>
<td>Realm Q Ignite 280 AMS</td>
<td>4 fl oz/a B</td>
<td>22 fl oz/a B</td>
<td>2 lb/a B</td>
<td>0 c</td>
<td>83 c</td>
<td>100 a</td>
<td>98 ab</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Realm Q atrazine Crop Oil Concentrate AMS</td>
<td>4 fl oz/a B</td>
<td>0.5 lb v/a</td>
<td>2 lb/a B</td>
<td>0 c</td>
<td>69 f</td>
<td>100 a</td>
<td>98 ab</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Prequel Realm Q Crop Oil Concentrate AMS</td>
<td>1.66 fl oz/a B</td>
<td>4 oz/a B</td>
<td>1 % v/v</td>
<td>2 lb/a B</td>
<td>100 a</td>
<td>95 b</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>19</td>
<td>Steadfast isoxadifen-ethyl Crop Oil Concentrate AMS</td>
<td>1.5 oz/a B</td>
<td>2 lb/a B</td>
<td>1.25 oz a/a B</td>
<td>2 lb/a B</td>
<td>25 b</td>
<td>76 d</td>
<td>100 a</td>
<td>99 a</td>
</tr>
<tr>
<td>20</td>
<td>Nontreated</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**LSD (P=0.10)**: 13.9, 3.0, 3.1, 4.6
<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment</th>
<th>Rate</th>
<th>Rate Unit</th>
<th>Appl Code</th>
<th>6</th>
<th>15</th>
<th>22</th>
<th>27</th>
<th>LSD (P=.10)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Callisto Xtra</td>
<td>16 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Callisto Xtra</td>
<td>20 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Callisto Xtra</td>
<td>24 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Laudis</td>
<td>2 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Impact</td>
<td>0.5 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Status</td>
<td>2.5 oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Callisto Xtra</td>
<td>20 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Crop Oil Concentrate</td>
<td>1 % v/v</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Laudis</td>
<td>2 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Impact</td>
<td>0.5 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Status</td>
<td>2.5 oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Realm Q</td>
<td>4 oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Crop Oil Concentrate</td>
<td>1 % v/v</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Cinch ATZ</td>
<td>1 qt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Realm Q</td>
<td>4 oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Crop Oil Concentrate</td>
<td>1 % v/v</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Cinch ATZ</td>
<td>1 qt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Realm Q</td>
<td>4 oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Abundit</td>
<td>32 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Realm Q</td>
<td>4 oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Realm Q</td>
<td>4 oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>0.5 lb ai/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Crop Oil Concentrate</td>
<td>1 % v/v</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Prequel</td>
<td>1.66 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Realm Q</td>
<td>4 oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Crop Oil Concentrate</td>
<td>1 % v/v</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Steadfast</td>
<td>1.5 oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>isoxadifen-ethyl</td>
<td>0.125 oz ai/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>mesotrione</td>
<td>1.25 oz ai/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Crop Oil Concentrate</td>
<td>1 % v/v</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2 lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Nontreated</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**LSD (P=.10)**

<p>|       | 0.0 | 3.3 | 2.1 | 1.2 |</p>
<table>
<thead>
<tr>
<th>Pest Name</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Rating Unit</th>
<th>Trt evaluation interval</th>
<th>LSD (P=.10)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Trt Treatment No. Name</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Rate</td>
<td>Unit</td>
</tr>
<tr>
<td>1 Non-treated</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>2 Callisto Xtra</td>
<td>16 ft oz/a B</td>
<td>Touchdown Total AMS</td>
<td>0 c</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>3 Callisto Xtra</td>
<td>20 ft oz/a B</td>
<td>Touchdown Total AMS</td>
<td>0 c</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>4 Callisto Xtra</td>
<td>24 ft oz/a B</td>
<td>Touchdown Total AMS</td>
<td>0 c</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>5 Laudis</td>
<td>2 fl oz/a B</td>
<td>Touchdown Total AMS</td>
<td>0 c</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>6 Impact</td>
<td>0.5 fl oz/a B</td>
<td>Touchdown Total AMS</td>
<td>0 c</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>7 Status</td>
<td>2.5 oz/a B</td>
<td>Touchdown Total AMS</td>
<td>0 c</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>8 Touchdown Total</td>
<td>24 ft oz/a B</td>
<td>2 lb/a B</td>
<td>0 c</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>9 Callisto Xtra</td>
<td>20 fl oz/a B</td>
<td>Crop Oil Concentrate AMS</td>
<td>0 c</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>10 Laudis</td>
<td>atrazine</td>
<td>1 pt/a B</td>
<td>Touchdown Total AMS</td>
<td>0 c</td>
<td>100 a</td>
</tr>
<tr>
<td>11 Impact</td>
<td>atrazine</td>
<td>2 fl oz/a B</td>
<td>0 c</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>12 Status</td>
<td>atrazine</td>
<td>Touchdown Total AMS</td>
<td>0 c</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>13 Realm Q</td>
<td>Crop Oil Concentrate AMS</td>
<td>4 oz/a B</td>
<td>1 % v/v C</td>
<td>0 c</td>
<td>95 b</td>
</tr>
<tr>
<td>14 Cinch ATZ</td>
<td>Realm Q Crop Oil Concentrate AMS</td>
<td>1 qt/a B</td>
<td>1 % v/v C</td>
<td>81 b</td>
<td>92 c</td>
</tr>
<tr>
<td>15 Cinch ATZ</td>
<td>Realm Q</td>
<td>Abundit AMS</td>
<td>0 c</td>
<td>92 c</td>
<td>100 a</td>
</tr>
<tr>
<td>16 Realm Q</td>
<td>Ignite 280 AMS</td>
<td>4 oz/a B</td>
<td>22 fl oz/a B</td>
<td>0 c</td>
<td>83 d</td>
</tr>
<tr>
<td>17 Realm Q atrazine</td>
<td>Crop Oil Concentrate AMS</td>
<td>4 oz/a B</td>
<td>0.5 lb ai/a B</td>
<td>0 c</td>
<td>96 b</td>
</tr>
<tr>
<td>18 Prequel</td>
<td>1.66 fl oz/a B</td>
<td>Crop Oil Concentrate AMS</td>
<td>0 c</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>19 Steadfast isoxadifen-ethyl mesotrione</td>
<td>0.125 oz ai/a B</td>
<td>Crop Oil Concentrate AMS</td>
<td>0 c</td>
<td>91 c</td>
<td>100 a</td>
</tr>
<tr>
<td>20 Non-treated</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Pest Name</td>
<td>Rating Date</td>
<td>Rating Type</td>
<td>Rating Unit</td>
<td>Trt evaluation interval</td>
<td>Ladysthumb Jun-1-2010 control %</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
<td>-------------</td>
<td>-------------</td>
<td>-------------------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>28 DA-A</td>
<td>5 DA-C</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1 Nonreared</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Callisto Xtra</td>
<td>16 fl oz/a</td>
<td>24 fl oz/a</td>
<td>B</td>
<td>0</td>
<td>100 a</td>
</tr>
<tr>
<td>Touchdown Total</td>
<td>2 lb/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Callisto Xtra</td>
<td>20 fl oz/a</td>
<td>24 fl oz/a</td>
<td>B</td>
<td>0</td>
<td>100 a</td>
</tr>
<tr>
<td>Touchdown Total</td>
<td>2 lb/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Callisto Xtra</td>
<td>24 fl oz/a</td>
<td>24 fl oz/a</td>
<td>B</td>
<td>0</td>
<td>100 a</td>
</tr>
<tr>
<td>Touchdown Total</td>
<td>2 lb/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Laudis</td>
<td>2 fl oz/a</td>
<td>24 fl oz/a</td>
<td>B</td>
<td>0</td>
<td>97 b</td>
</tr>
<tr>
<td>Touchdown Total</td>
<td>2 lb/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 Impact</td>
<td>0.5 fl oz/a</td>
<td>24 fl oz/a</td>
<td>B</td>
<td>0</td>
<td>100 a</td>
</tr>
<tr>
<td>Touchdown Total</td>
<td>2 lb/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 Status</td>
<td>2.5 oz/a</td>
<td>24 fl oz/a</td>
<td>B</td>
<td>0</td>
<td>94 c</td>
</tr>
<tr>
<td>Touchdown Total</td>
<td>2 lb/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 Touchdown Total</td>
<td>4 fl oz/a</td>
<td>2 lb/a B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 Callisto Xtra</td>
<td>20 fl oz/a</td>
<td>1 % v/v</td>
<td>B</td>
<td>0</td>
<td>100 a</td>
</tr>
<tr>
<td>Crop Oil Concentrate</td>
<td>2 lb/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 Laudis</td>
<td>2 fl oz/a</td>
<td>24 fl oz/a</td>
<td>B</td>
<td>0</td>
<td>99 a</td>
</tr>
<tr>
<td>atrazine</td>
<td>1 pt/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Touchdown Total</td>
<td>2 lb/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 Impact</td>
<td>0.5 fl oz/a</td>
<td>24 fl oz/a</td>
<td>B</td>
<td>0</td>
<td>99 a</td>
</tr>
<tr>
<td>atrazine</td>
<td>1 pt/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Touchdown Total</td>
<td>2 lb/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 Status</td>
<td>2.5 oz/a</td>
<td>1 pt/a B</td>
<td></td>
<td></td>
<td>100 a</td>
</tr>
<tr>
<td>atrazine</td>
<td>24 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Touchdown Total</td>
<td>2 lb/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13 Realm Q</td>
<td>4 oz/a</td>
<td>1 % v/v</td>
<td>B</td>
<td>0</td>
<td>96 bc</td>
</tr>
<tr>
<td>Crop Oil Concentrate</td>
<td>2 lb/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 Cinch ATZ</td>
<td>1 qt/a</td>
<td>4 oz/a</td>
<td>B</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>Realm Q</td>
<td>1 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crop Oil Concentrate</td>
<td>2 lb/a C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 Cinch ATZ</td>
<td>1 qt/a</td>
<td>4 oz/a</td>
<td>B</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>Realm Q</td>
<td>32 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abundit</td>
<td>2 lb/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16 Realm Q</td>
<td>4 oz/a</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>0</td>
<td>100 a</td>
</tr>
<tr>
<td>Ignite 280</td>
<td>2 lb/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17 Realm Q</td>
<td>4 oz/a</td>
<td>0.5 lb ai/a B</td>
<td>1 % v/v</td>
<td>B</td>
<td>0</td>
</tr>
<tr>
<td>atrazine</td>
<td>1 % v/v B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crop Oil Concentrate</td>
<td>2 lb/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 Prequel</td>
<td>1.66 fl oz/a</td>
<td>4 oz/a</td>
<td>B</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td>Realm Q</td>
<td>1 % v/v</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crop Oil Concentrate</td>
<td>2 lb/a C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19 Steadfast</td>
<td>1.5 oz/a</td>
<td>0.125 oz ai/a B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>isoxadifen-ethyl</td>
<td>1.25 oz ai/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>mesotrione</td>
<td>2 lb/a B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crop Oil Concentrate</td>
<td>1 % v/v B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 Nonreared</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>LSD (P=.10)</td>
<td>0</td>
<td>2.2</td>
<td>3.5</td>
<td>12.7</td>
<td></td>
</tr>
</tbody>
</table>
## Callisto Xtra: Postemergence Evaluation on Field Corn

### Treatment Information

<table>
<thead>
<tr>
<th>Trt evaluation interval</th>
<th>Trt</th>
<th>Rate Unit</th>
<th>Unit Code</th>
<th>Jun-1-2010 control</th>
<th>Jun-18-2010 control</th>
<th>Jul-2-2010 control</th>
<th>Sep-3-2010 control</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Common</td>
<td>Common</td>
<td>Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>date</td>
<td>date</td>
<td>date</td>
<td>date</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LSD (P=.10)</td>
<td>LSD (P=.10)</td>
<td>LSD (P=.10)</td>
<td>LSD (P=.10)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>28 DA-A</td>
<td>5 DA-C</td>
<td>19 DA-C</td>
<td>82 DA-C</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Nontreated</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0 c</td>
<td>93 a-d</td>
<td>94 bcd</td>
<td>97 a-d</td>
</tr>
<tr>
<td>Callisto Xtra</td>
<td>18</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>93 a-d</td>
<td>94 bcd</td>
<td>96 a-d</td>
</tr>
<tr>
<td>Touchdown Total AMS</td>
<td>15</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>97 abc</td>
<td>97 ab</td>
<td>97 a-d</td>
</tr>
<tr>
<td>AMS</td>
<td>14</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>92 bcd</td>
<td>90 de</td>
<td>92 ef</td>
</tr>
<tr>
<td>4 Callisto Xtra</td>
<td>11</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>93 d</td>
<td>91 cde</td>
<td>92 f</td>
</tr>
<tr>
<td>Touchdown Total AMS</td>
<td>5</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>95 a-d</td>
<td>94 bcd</td>
<td>93 def</td>
</tr>
<tr>
<td>AMS</td>
<td>2</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>95 a-d</td>
<td>90 de</td>
<td>91 f</td>
</tr>
<tr>
<td>5 Laudis</td>
<td>2</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>92 cd</td>
<td>90 de</td>
<td>99 abc</td>
</tr>
<tr>
<td>Touchdown Total AMS</td>
<td>2</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>90 d</td>
<td>93 b-e</td>
<td>97 a-d</td>
</tr>
<tr>
<td>10 Impact</td>
<td>1</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>98 ab</td>
<td>96 ab</td>
<td>96 a-d</td>
</tr>
<tr>
<td>Touchdown Total AMS</td>
<td>0</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>98 d</td>
<td>96 abc</td>
<td>96 bc</td>
</tr>
<tr>
<td>8 Touchdown Total AMS</td>
<td>4</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>96 a-d</td>
<td>96 abc</td>
<td>96 bcd</td>
</tr>
<tr>
<td>9 Callisto Xtra</td>
<td>2</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>Crop Oil Concentrate</td>
<td>1</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>AMS</td>
<td>0</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>14 Cinch ATZ</td>
<td>4</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>Realm Q</td>
<td>35</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>Crop Oil Concentrate</td>
<td>83</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>AMS</td>
<td>93</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>17 Cinch ATZ</td>
<td>1</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>Realm Q</td>
<td>64</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>Abundit</td>
<td>95</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>AMS</td>
<td>96</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>16 Realm Q</td>
<td>4</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>Ignite 280</td>
<td>76</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>AMS</td>
<td>96</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>17 Realm Q</td>
<td>4</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>atrazine</td>
<td>74</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>Crop Oil Concentrate</td>
<td>95</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>AMS</td>
<td>96</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>18 Prequel</td>
<td>1</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>Realm Q</td>
<td>100</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>Crop Oil Concentrate</td>
<td>99</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>AMS</td>
<td>100</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>19 Steadfast</td>
<td>1</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>isoxadifen-ethyl</td>
<td>63</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>mesotrione</td>
<td>93</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>Crop Oil Concentrate</td>
<td>97</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>AMS</td>
<td>96</td>
<td>fl oz/a</td>
<td>B</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>20 Nontreated</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0 c</td>
<td>60 g</td>
<td>88 e</td>
<td>99 abc</td>
</tr>
<tr>
<td>LSD (P=0.10)</td>
<td>2.8</td>
<td>6.0</td>
<td>5.0</td>
<td>3.9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pest Name</td>
<td>Rating Date</td>
<td>Rating Type</td>
<td>Rating Unit</td>
<td>Trt evaluation interval</td>
<td>Eastern Black - I control</td>
<td>Oct-12-2010</td>
<td>Yield</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>-------------</td>
<td>-------------</td>
<td>-------------------------</td>
<td>---------------------------</td>
<td>-------------</td>
<td>-------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>82 DA-C</td>
<td>167 DP-1</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment Name</th>
<th>Rate</th>
<th>Unit</th>
<th>Appl No.</th>
<th>Rate Unit</th>
<th>Code</th>
<th>LSD (P=.10)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td>0</td>
<td>148</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Callisto Xtra</td>
<td>16</td>
<td>fl oz/a</td>
<td>2</td>
<td>2 lb/a</td>
<td>B 100</td>
<td>218 a</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24</td>
<td>fl oz/a</td>
<td>2</td>
<td>2 lb/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Callisto Xtra</td>
<td>20</td>
<td>fl oz/a</td>
<td>2</td>
<td>2 lb/a</td>
<td>B</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24</td>
<td>fl oz/a</td>
<td>2</td>
<td>2 lb/a</td>
<td>B</td>
<td>216 a</td>
</tr>
<tr>
<td>4</td>
<td>Callisto Xtra</td>
<td>24</td>
<td>fl oz/a</td>
<td>2</td>
<td>2 lb/a</td>
<td>B</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24</td>
<td>fl oz/a</td>
<td>2</td>
<td>2 lb/a</td>
<td>B</td>
<td>212 a</td>
</tr>
<tr>
<td>5</td>
<td>Laudis</td>
<td>2</td>
<td>fl oz/a</td>
<td>24</td>
<td>2 lb/a</td>
<td>B</td>
<td>98 a</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24</td>
<td>fl oz/a</td>
<td>2</td>
<td>2 lb/a</td>
<td>B</td>
<td>217 a</td>
</tr>
<tr>
<td>6</td>
<td>Impact</td>
<td>0.5</td>
<td>fl oz/a</td>
<td>24</td>
<td>2 lb/a</td>
<td>B</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24</td>
<td>fl oz/a</td>
<td>2</td>
<td>2 lb/a</td>
<td>B</td>
<td>214 a</td>
</tr>
<tr>
<td>7</td>
<td>Status</td>
<td>2.5</td>
<td>oz/a</td>
<td>24</td>
<td>2 lb/a</td>
<td>B</td>
<td>15 c</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24</td>
<td>fl oz/a</td>
<td>2</td>
<td>2 lb/a</td>
<td>B</td>
<td>211 a</td>
</tr>
<tr>
<td>8</td>
<td>Touchdown Total</td>
<td>24</td>
<td>fl oz/a</td>
<td>2</td>
<td>2 lb/a</td>
<td>B</td>
<td>37 b</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>2</td>
<td>lb/a</td>
<td></td>
<td></td>
<td></td>
<td>205 a</td>
</tr>
<tr>
<td>9</td>
<td>Callisto Xtra</td>
<td>20</td>
<td>fl oz/a</td>
<td>1</td>
<td>1 pt/a</td>
<td>B</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Crop Oil Concentrate</td>
<td>24</td>
<td>fl oz/a</td>
<td>2</td>
<td>2 lb/a</td>
<td>B</td>
<td>207 a</td>
</tr>
<tr>
<td>10</td>
<td>Laudis</td>
<td>2</td>
<td>fl oz/a</td>
<td>2</td>
<td>1 pt/a</td>
<td>B</td>
<td>99 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>pt/a</td>
<td>24</td>
<td>2 lb/a</td>
<td>B</td>
<td>216 a</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24</td>
<td>fl oz/a</td>
<td>2</td>
<td>2 lb/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Impact</td>
<td>0.5</td>
<td>fl oz/a</td>
<td>2</td>
<td>2 lb/a</td>
<td>B</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>pt/a</td>
<td>24</td>
<td>2 lb/a</td>
<td>B</td>
<td>204 a</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
<td>24</td>
<td>fl oz/a</td>
<td>2</td>
<td>2 lb/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Status</td>
<td>2.5</td>
<td>oz/a</td>
<td>24</td>
<td>2 lb/a</td>
<td>B</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>pt/a</td>
<td>24</td>
<td>2 lb/a</td>
<td>B</td>
<td>215 a</td>
</tr>
<tr>
<td>13</td>
<td>Realm Q</td>
<td>4</td>
<td>oz/a</td>
<td>4</td>
<td>1 % v/v</td>
<td>B</td>
<td>97 a</td>
</tr>
<tr>
<td></td>
<td>Crop Oil Concentrate</td>
<td>2</td>
<td>lb/a</td>
<td></td>
<td></td>
<td></td>
<td>203 a</td>
</tr>
<tr>
<td>14</td>
<td>Cinch ATZ</td>
<td>1</td>
<td>qt/a</td>
<td>4</td>
<td>1 % v/v</td>
<td>C</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Realm Q</td>
<td>4</td>
<td>oz/a</td>
<td>4</td>
<td>1 % v/v</td>
<td>C</td>
<td>203 a</td>
</tr>
<tr>
<td>15</td>
<td>Cinch ATZ</td>
<td>1</td>
<td>qt/a</td>
<td>32</td>
<td>2 % v/v</td>
<td>A</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Realm Q</td>
<td>4</td>
<td>oz/a</td>
<td>32</td>
<td>2 % v/v</td>
<td>A</td>
<td>213 a</td>
</tr>
<tr>
<td>16</td>
<td>Realm Q</td>
<td>2</td>
<td>oz/a</td>
<td>22</td>
<td>1 % v/v</td>
<td>B</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td>2</td>
<td>oz/a</td>
<td>2</td>
<td>2 lb/a</td>
<td>B</td>
<td>212 a</td>
</tr>
<tr>
<td>17</td>
<td>Realm Q</td>
<td>4</td>
<td>oz/a</td>
<td>0.5</td>
<td>0.5 lb ai/a</td>
<td>B</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>oz/a</td>
<td>0.5</td>
<td>0.5 lb ai/a</td>
<td>B</td>
<td>219 a</td>
</tr>
<tr>
<td></td>
<td>Crop Oil Concentrate</td>
<td>2</td>
<td>lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Prequel</td>
<td>1.66</td>
<td>fl oz/a</td>
<td>4</td>
<td>1 % v/v</td>
<td>C</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Realm Q</td>
<td>4</td>
<td>oz/a</td>
<td>4</td>
<td>1 % v/v</td>
<td>C</td>
<td>209 a</td>
</tr>
<tr>
<td>19</td>
<td>Steadfast</td>
<td>1.5</td>
<td>oz/a</td>
<td>0.125</td>
<td>0.125 lb ai/a</td>
<td>B</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>isoxadifen-ethyl mesotrione</td>
<td>1.25</td>
<td>oz ai/a</td>
<td>0.125</td>
<td>0.125 lb ai/a</td>
<td>B</td>
<td>211 a</td>
</tr>
<tr>
<td></td>
<td>Crop Oil Concentrate</td>
<td>2</td>
<td>lb/a</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Nontreated</td>
<td>0</td>
<td>151</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LSD (P=.10)</td>
<td>14.9</td>
<td>11.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
University of Wisconsin-Madison
Corn Herbicide/Fungicide Evaluation

Trial ID: 10ARLCN07
Protocol ID: 10ARLCN07
Location: Study Director:
Project ID: Investigator: C. M. Boerboom
Sponsor Contact:

General Trial Information

Study Director: T.L.Trower
Title: Sr. Outreach Specialist
Investigator: C. M. Boerboom
Discipline: Herbicide

Trial Location

City: Arlington
State/Prov.: WI

Personnel

Study Director: T.L.Trower
Title: Sr. Outreach Specialist
Affiliation: UW-Madison
Address: 1575 Linden Dr.
Location: Madison, WI
Postal Code: 53706
E-mail: tltrower@wisc.edu
Mobile No.: 608-393-3173
Investigator: C. M. Boerboom

Crop Description

Crop 1: ZEAMD Zea mays indentata Dent corn
Variety: DKC 45-79
BBCH Scale: BCOR
Planting Method: SEEDED seeded
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: SMOOTH smooth
Soil Moisture: NORMAL normal
Harvested Width, Unit: 7.5 FT
Harvested Length, Unit: 25 FT

Site and Design

Plot Width, Unit: 10 FT
Plot Length, Unit: 25 FT
Plot Area, Unit: 250 FT
Replications: 4
Study Design: RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: Silt Loam field 371
% Sand: 10 % OM: 3.5
% Silt: 67 pH: 6.8
% Clay: 23 CEC: 13

Additional Measured Elements

<table>
<thead>
<tr>
<th>Element</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphorus</td>
<td>19</td>
<td>ppm</td>
</tr>
<tr>
<td>Potassium</td>
<td>75</td>
<td>ppm</td>
</tr>
<tr>
<td>Calcium</td>
<td>1666</td>
<td>ppm</td>
</tr>
<tr>
<td>Magnesium</td>
<td>823</td>
<td>ppm</td>
</tr>
</tbody>
</table>

Application Description

Application Date: Jun-18-2010
Time of Day: 8:40A
Application Method: Broadcast
Application Timing: Post
Application Placement: Foliar
Applied By: T. Trower
Air Temperature, Unit: 74 F
% Relative Humidity: 83
Wind Velocity, Unit: 3 MPH
Wind Direction: NNE
Dew Presence (Y/N): N no
Soil Temperature, Unit: 72 F
Soil Moisture: WET
% Cloud Cover: 0
### Crop Stage At Each Application

<table>
<thead>
<tr>
<th>Crop 1 Code, BBCH Scale</th>
<th>ZEAMD BCOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stage Scale Used</td>
<td>BBCH</td>
</tr>
<tr>
<td>Stage Majority, Percent</td>
<td>V5</td>
</tr>
<tr>
<td>Stage Maximum, Percent</td>
<td>V6</td>
</tr>
<tr>
<td>Height, Unit</td>
<td>18 IN</td>
</tr>
<tr>
<td>Height Minimum, Maximum</td>
<td>15</td>
</tr>
</tbody>
</table>

### Application Equipment

<table>
<thead>
<tr>
<th>Equipment Type</th>
<th>SPRBAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Pressure, Unit</td>
<td>23 PSI</td>
</tr>
<tr>
<td>Nozzle Type</td>
<td>XR</td>
</tr>
<tr>
<td>Nozzle Size</td>
<td>8003</td>
</tr>
<tr>
<td>Nozzle Spacing, Unit</td>
<td>20 IN</td>
</tr>
<tr>
<td>% Coverage</td>
<td>100</td>
</tr>
<tr>
<td>Boom ID</td>
<td>20 GPA</td>
</tr>
<tr>
<td>Boom Length, Unit</td>
<td>10 FT</td>
</tr>
<tr>
<td>Boom Height, Unit</td>
<td>19 IN</td>
</tr>
<tr>
<td>Ground Speed, Unit</td>
<td>3 MPH</td>
</tr>
<tr>
<td>Carrier</td>
<td>WATER</td>
</tr>
<tr>
<td>Spray Volume, Unit</td>
<td>20 gal/ac</td>
</tr>
<tr>
<td>Mix Size, Unit</td>
<td>2.2 liters</td>
</tr>
<tr>
<td>Propellant</td>
<td>COMCO2</td>
</tr>
<tr>
<td>Treatment No.</td>
<td>Treatment Name</td>
</tr>
<tr>
<td>---------------</td>
<td>----------------</td>
</tr>
<tr>
<td>1</td>
<td>Camix</td>
</tr>
<tr>
<td></td>
<td>Princip</td>
</tr>
<tr>
<td></td>
<td>Quadris</td>
</tr>
<tr>
<td>2</td>
<td>Camix</td>
</tr>
<tr>
<td></td>
<td>Princip</td>
</tr>
<tr>
<td></td>
<td>Halex GT</td>
</tr>
<tr>
<td></td>
<td>Activator 90</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
</tr>
<tr>
<td>3</td>
<td>Camix</td>
</tr>
<tr>
<td></td>
<td>Princip</td>
</tr>
<tr>
<td></td>
<td>Callisto</td>
</tr>
<tr>
<td></td>
<td>Crop Oil</td>
</tr>
<tr>
<td></td>
<td>Concentrate</td>
</tr>
<tr>
<td>4</td>
<td>Camix</td>
</tr>
<tr>
<td></td>
<td>Princip</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
</tr>
<tr>
<td>5</td>
<td>Camix</td>
</tr>
<tr>
<td></td>
<td>Princip</td>
</tr>
<tr>
<td></td>
<td>N-Pact</td>
</tr>
<tr>
<td>6</td>
<td>Camix</td>
</tr>
<tr>
<td></td>
<td>Princip</td>
</tr>
<tr>
<td></td>
<td>CoRoN</td>
</tr>
<tr>
<td>7</td>
<td>Camix</td>
</tr>
<tr>
<td></td>
<td>Princip</td>
</tr>
<tr>
<td></td>
<td>Halex GT</td>
</tr>
<tr>
<td></td>
<td>Quadris</td>
</tr>
<tr>
<td></td>
<td>Activator 90</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
</tr>
<tr>
<td>8</td>
<td>Camix</td>
</tr>
<tr>
<td></td>
<td>Princip</td>
</tr>
<tr>
<td></td>
<td>Callisto</td>
</tr>
<tr>
<td></td>
<td>Quadris</td>
</tr>
<tr>
<td></td>
<td>Crop Oil Concentrate</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
</tr>
<tr>
<td>9</td>
<td>Camix</td>
</tr>
<tr>
<td></td>
<td>Princip</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
</tr>
<tr>
<td></td>
<td>Quadris</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
</tr>
<tr>
<td>10</td>
<td>Camix</td>
</tr>
<tr>
<td></td>
<td>Princip</td>
</tr>
<tr>
<td></td>
<td>Halex GT</td>
</tr>
<tr>
<td></td>
<td>Quadris</td>
</tr>
<tr>
<td></td>
<td>N-Pact</td>
</tr>
<tr>
<td></td>
<td>Activator 90</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
</tr>
<tr>
<td>11</td>
<td>Camix</td>
</tr>
<tr>
<td></td>
<td>Princip</td>
</tr>
<tr>
<td></td>
<td>Callisto</td>
</tr>
<tr>
<td></td>
<td>Quadris</td>
</tr>
<tr>
<td></td>
<td>N-Pact</td>
</tr>
<tr>
<td></td>
<td>Crop Oil Concentrate</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
</tr>
<tr>
<td>12</td>
<td>Camix</td>
</tr>
<tr>
<td></td>
<td>Princip</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
</tr>
<tr>
<td></td>
<td>Quadris</td>
</tr>
<tr>
<td></td>
<td>N-Pact</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
</tr>
<tr>
<td>13</td>
<td>Camix</td>
</tr>
<tr>
<td></td>
<td>Princip</td>
</tr>
<tr>
<td></td>
<td>Halex GT</td>
</tr>
<tr>
<td></td>
<td>Quadris</td>
</tr>
<tr>
<td></td>
<td>CoRoN</td>
</tr>
<tr>
<td></td>
<td>Activator 90</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
</tr>
<tr>
<td>14</td>
<td>Camix</td>
</tr>
<tr>
<td></td>
<td>Princip</td>
</tr>
<tr>
<td></td>
<td>Callisto</td>
</tr>
<tr>
<td></td>
<td>Quadris</td>
</tr>
<tr>
<td></td>
<td>CoRoN</td>
</tr>
<tr>
<td></td>
<td>Crop Oil</td>
</tr>
<tr>
<td></td>
<td>Concentrate</td>
</tr>
<tr>
<td>15</td>
<td>Camix</td>
</tr>
<tr>
<td></td>
<td>Princip</td>
</tr>
<tr>
<td></td>
<td>Touchdown Total</td>
</tr>
<tr>
<td></td>
<td>Quadris</td>
</tr>
<tr>
<td></td>
<td>CoRoN</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
</tr>
</tbody>
</table>

Means followed by same letter do not significantly differ (P=0.10, LSD) Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL. Untreated treatment(s) 1 excluded from analysis.
## Corn Herbicide/Fungicide Evaluation

**Untreated treatment(s) 1 excluded from analysis.**

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

<table>
<thead>
<tr>
<th>No.</th>
<th>Trt Name</th>
<th>Rate Unit</th>
<th>Rate Appl Code</th>
<th>Abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Camix</td>
<td>2.4 qt/a</td>
<td>A</td>
<td>PHYSTU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 lb ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Camix</td>
<td>2.4 qt/a</td>
<td>A</td>
<td>PHYNLS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 lb ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.6 pt/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.25 % v/v</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 lb/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Camix</td>
<td>2.4 qt/a</td>
<td>A</td>
<td>PHYNLM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 lb ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 % v/v</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 lb/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Camix</td>
<td>2.4 qt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 lb ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 gal/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Camix</td>
<td>2.4 qt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 lb ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>24 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 lb/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Camix</td>
<td>2.4 qt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 lb ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 gal/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Camix</td>
<td>2.4 qt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 lb ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.6 pt/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.25 % v/v</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 lb/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Camix</td>
<td>2.4 qt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 lb ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 % v/v</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 lb/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Camix</td>
<td>2.4 qt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 lb ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>24 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 lb/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Camix</td>
<td>2.4 qt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 lb ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.6 pt/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.25 % v/v</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 lb/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Camix</td>
<td>2.4 qt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 lb ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 % v/v</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 lb/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Camix</td>
<td>2.4 qt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 lb ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>24 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 lb/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Camix</td>
<td>2.4 qt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 lb ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.6 pt/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 % v/v</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 lb/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Camix</td>
<td>2.4 qt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 lb ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 % v/v</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 lb/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Camix</td>
<td>2.4 qt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 lb ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>24 fl oz/a</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 lb/a</td>
<td>B</td>
<td></td>
</tr>
</tbody>
</table>

Means followed by same letter do not significantly differ (P=.10, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Untreated treatment(s) 1 excluded from analysis.
University of Wisconsin-Madison

Postemergence Herbicide Evaluation

Trial ID: 10ARLCN09
Location: Arlington
Project ID: Protocol ID: 10ARLCN09
Study Director: T. L. Trower
Investigator: C. M. Boerboom
Sponsor Contact:

General Trial Information

Study Director: T. L. Trower
Investigator: C. M. Boerboom

Title: Sr. Outreach Specialist
Discipline: Herbicide
Initiation Date: May-5-2010

City: Arlington
State/Prov.: WI

Personnel

Study Director: T. L. Trower
Affiliation: UW-Madison
Address: 1575 Linden Dr.
Location: Madison, WI
Postal Code: 53706
E-mail: tltrower@wisc.edu
Mobile No.: 608-393-3173
Investigator: C. M. Boerboom

Crop Description

Crop 1: ZEAMD Zea mays indentata Dent corn
Variety: DKC 48-37
BBCH Scale: BCOR
Planting Method: SEEDED seeded
Rate, Unit: 32400 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Spacing Within Row, Unit: 7 IN
Seed Bed: SMOOTH smooth
Soil Moisture: NORMAL normal
Emergence Date: May-17-2010
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 25 FT

Pest Description

Pest 1 Type: W Code: SETFA Setaria faberi
Common Name: Giant foxtail

Pest 2 Type: W Code: CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 3 Type: W Code: AMARE Amaranthus retroflexus
Common Name: Redroot pigweed

Pest 4 Type: W Code: ABUTH Abutilon theophrasti
Common Name: Velvetleaf

Pest 5 Type: W Code: POLPE Polygonum persicaria
Common Name: Ladysthumb

Site and Design

Plot Width, Unit: 10 FT
Plot Length, Unit: 25 FT
Plot Area, Unit: 250 FT2
Replications: 4
Site Type: CROP
Tillage Type: CONTIL conventional-till
Study Design: RACOBBL Randomized Complete Block (RCB)

Soil Description

Description Name: Plano Silt Loam
% Sand: 4 % OM: 3.8 Texture: SIL silt loam
% Silt: 71 pH: 6.5 Soil Name: Plano
% Clay: 25 CEC: 11

Additional Measured Elements

<table>
<thead>
<tr>
<th>Element</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphorus</td>
<td>28</td>
<td>ppm</td>
</tr>
<tr>
<td>Potassium</td>
<td>143</td>
<td>ppm</td>
</tr>
<tr>
<td>Calcium</td>
<td>1496</td>
<td>ppm</td>
</tr>
<tr>
<td>Magnesium</td>
<td>447</td>
<td>ppm</td>
</tr>
</tbody>
</table>
### Application Description

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Date:</td>
<td>Jun-9-2010</td>
</tr>
<tr>
<td>Time of Day:</td>
<td>9:30 am</td>
</tr>
<tr>
<td>Application Method:</td>
<td>Broadcast</td>
</tr>
<tr>
<td>Application Timing:</td>
<td>Post</td>
</tr>
<tr>
<td>Application Placement:</td>
<td>Foliar</td>
</tr>
<tr>
<td>Applied By:</td>
<td>T. Trower</td>
</tr>
<tr>
<td>Air Temperature, Unit:</td>
<td>72 F</td>
</tr>
<tr>
<td>% Relative Humidity:</td>
<td>83</td>
</tr>
<tr>
<td>Wind Velocity, Unit:</td>
<td>6.8 MPH</td>
</tr>
<tr>
<td>Wind Direction:</td>
<td>SW</td>
</tr>
<tr>
<td>Dew Presence (Y/N):</td>
<td>Y yes</td>
</tr>
<tr>
<td>Soil Temperature, Unit:</td>
<td>65 F</td>
</tr>
<tr>
<td>Soil Moisture:</td>
<td>SLIWET</td>
</tr>
<tr>
<td>% Cloud Cover:</td>
<td>0</td>
</tr>
</tbody>
</table>

### Crop Stage At Each Application

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Crop 1 Code, BBCH Scale:</td>
<td>ZEAMD BCOR</td>
</tr>
<tr>
<td>Stage Scale Used:</td>
<td>BBCH</td>
</tr>
<tr>
<td>Stage Majority, Percent:</td>
<td>V4</td>
</tr>
<tr>
<td>Height, Unit:</td>
<td>10 IN</td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>8 10</td>
</tr>
</tbody>
</table>

### Pest Stage At Each Application

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pest 1 Code, Type, Scale:</td>
<td>SETFA W</td>
</tr>
<tr>
<td>Stage Minimum, Percent:</td>
<td>3 lvs</td>
</tr>
<tr>
<td>Stage Maximum, Percent:</td>
<td>4 lvs</td>
</tr>
<tr>
<td>Height, Unit:</td>
<td>4 IN</td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>3 8</td>
</tr>
<tr>
<td>Density, Unit:</td>
<td>7 FT2</td>
</tr>
<tr>
<td>Pest 2 Code, Type, Scale:</td>
<td>CHEAL W</td>
</tr>
<tr>
<td>Stage Minimum, Percent:</td>
<td>8 lvs</td>
</tr>
<tr>
<td>Height, Unit:</td>
<td>4 IN</td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>2 5</td>
</tr>
<tr>
<td>Density, Unit:</td>
<td>3 FT2</td>
</tr>
<tr>
<td>Pest 3 Code, Type, Scale:</td>
<td>AMARE W</td>
</tr>
<tr>
<td>Stage Majority, Percent:</td>
<td>4 lvs</td>
</tr>
<tr>
<td>Height, Unit:</td>
<td>2 IN</td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>1 3</td>
</tr>
<tr>
<td>Density, Unit:</td>
<td>1 FT2</td>
</tr>
<tr>
<td>Pest 4 Code, Type, Scale:</td>
<td>ABUTH W</td>
</tr>
<tr>
<td>Stage Minimum, Percent:</td>
<td>5 lvs</td>
</tr>
<tr>
<td>Height, Unit:</td>
<td>4 IN</td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>1 3</td>
</tr>
<tr>
<td>Density, Unit:</td>
<td>1 FT2</td>
</tr>
<tr>
<td>Pest 5 Code, Type, Scale:</td>
<td>POLPE W</td>
</tr>
<tr>
<td>Stage Majority, Percent:</td>
<td>4 lvs</td>
</tr>
<tr>
<td>Height, Unit:</td>
<td>4 IN</td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>2 5</td>
</tr>
<tr>
<td>Density, Unit:</td>
<td>3 FT2</td>
</tr>
</tbody>
</table>

### Application Equipment

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment Type:</td>
<td>SPRBAC</td>
</tr>
<tr>
<td>Operating Pressure, Unit:</td>
<td>23 PSI</td>
</tr>
<tr>
<td>Nozzle Type:</td>
<td>Flat Fan</td>
</tr>
<tr>
<td>Nozzle Size:</td>
<td>XR 8003</td>
</tr>
<tr>
<td>Nozzle Spacing, Unit:</td>
<td>20 IN</td>
</tr>
<tr>
<td>% Coverage:</td>
<td>100</td>
</tr>
<tr>
<td>Boom ID:</td>
<td>20 GPA</td>
</tr>
<tr>
<td>Boom Length, Unit:</td>
<td>10 FT</td>
</tr>
<tr>
<td>Boom Height, Unit:</td>
<td>19 IN</td>
</tr>
<tr>
<td>Ground Speed, Unit:</td>
<td>3 MPH</td>
</tr>
<tr>
<td>Carrier:</td>
<td>WATER</td>
</tr>
<tr>
<td>Spray Volume, Unit:</td>
<td>20 gal/ac</td>
</tr>
<tr>
<td>Mix Size, Unit:</td>
<td>2.2 liters</td>
</tr>
<tr>
<td>Propellant:</td>
<td>COMCO2</td>
</tr>
</tbody>
</table>

### Date By Notes

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jun-9-2010</td>
<td>T. Trower</td>
<td>85% ground cover at application</td>
</tr>
</tbody>
</table>
### Postemergence Herbicide Evaluation

<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Pest Name</th>
<th>Crop Name</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Rating Unit</th>
<th>Trt-Eval Interval</th>
<th>Plant-Eval Interval</th>
<th>No.</th>
<th>Treatment</th>
<th>Rate</th>
<th>Appl Unit</th>
<th>Code</th>
<th>1</th>
<th>2</th>
<th>8</th>
<th>9</th>
<th>26</th>
<th>Rate</th>
<th>LSD (P=10)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Jun-23-2010</td>
<td>PHYSTU</td>
<td>%</td>
<td>14 DA-A</td>
<td>51 DP-1</td>
<td>11</td>
<td>Nontreated</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>177</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Jun-30-2010</td>
<td>PHYCHL</td>
<td>%</td>
<td>14 DA-A</td>
<td>51 DP-1</td>
<td>2</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>234 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Jun-30-2010</td>
<td>PHYSTU</td>
<td>%</td>
<td>21 DA-A</td>
<td>58 DP-1</td>
<td>8</td>
<td>Laudis</td>
<td>1 pt/a</td>
<td>A</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>238 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Jun-30-2010</td>
<td>PHYCHL</td>
<td>%</td>
<td>21 DA-A</td>
<td>58 DP-1</td>
<td>3</td>
<td>Impact</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>231 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Oct-5-2010</td>
<td>YIELD</td>
<td>%</td>
<td>118 DA-A</td>
<td>155 DP-1</td>
<td>7</td>
<td>Laudis</td>
<td>1 pt/a</td>
<td>A</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>232 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Oct-5-2010</td>
<td>YIELD</td>
<td>%</td>
<td>118 DA-A</td>
<td>155 DP-1</td>
<td>5</td>
<td>Capreno</td>
<td>1 pt/a</td>
<td>A</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>236 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Oct-5-2010</td>
<td>YIELD</td>
<td>%</td>
<td>118 DA-A</td>
<td>155 DP-1</td>
<td>4</td>
<td>Laudis</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>231 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Oct-5-2010</td>
<td>YIELD</td>
<td>%</td>
<td>118 DA-A</td>
<td>155 DP-1</td>
<td>6</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>236 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Oct-5-2010</td>
<td>YIELD</td>
<td>%</td>
<td>118 DA-A</td>
<td>155 DP-1</td>
<td>7</td>
<td>Laudis</td>
<td>1 pt/a</td>
<td>A</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>231 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Oct-5-2010</td>
<td>YIELD</td>
<td>%</td>
<td>118 DA-A</td>
<td>155 DP-1</td>
<td>8</td>
<td>Laudis</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>231 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Oct-5-2010</td>
<td>YIELD</td>
<td>%</td>
<td>118 DA-A</td>
<td>155 DP-1</td>
<td>9</td>
<td>Laudis</td>
<td>5 qt/100 gal</td>
<td>A</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>235 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Oct-5-2010</td>
<td>YIELD</td>
<td>%</td>
<td>118 DA-A</td>
<td>155 DP-1</td>
<td>10</td>
<td>Laudis</td>
<td>1 pt/a</td>
<td>A</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>229 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Oct-5-2010</td>
<td>YIELD</td>
<td>%</td>
<td>118 DA-A</td>
<td>155 DP-1</td>
<td>11</td>
<td>Laudis</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>229 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Oct-5-2010</td>
<td>YIELD</td>
<td>%</td>
<td>118 DA-A</td>
<td>155 DP-1</td>
<td>12</td>
<td>Laudis</td>
<td>1 pt/a</td>
<td>A</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>227 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Oct-5-2010</td>
<td>YIELD</td>
<td>%</td>
<td>118 DA-A</td>
<td>155 DP-1</td>
<td>13</td>
<td>Laudis</td>
<td>2.5 gal/100 gal</td>
<td>A</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>8.0</td>
<td></td>
</tr>
</tbody>
</table>

Means followed by same letter do not significantly differ (P=.10, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Pest Name</th>
<th>Crop Name</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Rating Unit</th>
<th>Trt-Eval Interval</th>
<th>Plant-Eval Interval</th>
<th>Trt</th>
<th>Treatment No.</th>
<th>Rate</th>
<th>Unit</th>
<th>Appl Code</th>
<th>Rate</th>
<th>Unit</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>W Weed</td>
<td>Common lambsqu&gt;</td>
<td></td>
<td>Jun-23-2010</td>
<td>control</td>
<td>%</td>
<td>14 DA-A</td>
<td>51 DP-1</td>
<td>4</td>
<td>1</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LSD</td>
<td>(P=.10)</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Means followed by same letter do not significantly differ (P=.10, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment Name</th>
<th>Rate</th>
<th>Unit</th>
<th>Code</th>
<th>LSD (P=.10)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Laudis</td>
<td>3</td>
<td>fl oz/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSO Concentrate</td>
<td>1</td>
<td>% v/v</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Impact</td>
<td>0.75</td>
<td>fl oz/a</td>
<td>A</td>
<td>6.2</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>pt/a</td>
<td>A</td>
<td>5.8</td>
</tr>
<tr>
<td></td>
<td>MSO Concentrate</td>
<td>1</td>
<td>% v/v</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Capreno</td>
<td>3</td>
<td>fl oz/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>COC</td>
<td>1</td>
<td>% v/v</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Laudis</td>
<td>3</td>
<td>fl oz/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSO Concentrate</td>
<td>1</td>
<td>% v/v</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Weather Guard Complete</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Laudis</td>
<td>3</td>
<td>fl oz/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Destiny HC</td>
<td>0.5</td>
<td>% v/v</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class Act NG</td>
<td>5</td>
<td>qt/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Interlock</td>
<td>4</td>
<td>oz/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Laudis</td>
<td>3</td>
<td>fl oz/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DYNE-AMIC</td>
<td>2</td>
<td>qt/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Request</td>
<td>2</td>
<td>qt/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Grounded</td>
<td>1</td>
<td>gal/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Laudis</td>
<td>3</td>
<td>fl oz/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sundance II</td>
<td>1.5</td>
<td>pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Array</td>
<td>9</td>
<td>lb/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Laudis</td>
<td>3</td>
<td>fl oz/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Soy-Stik</td>
<td>1.5</td>
<td>pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gardian Plus</td>
<td>2</td>
<td>qt/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Laudis</td>
<td>3</td>
<td>fl oz/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Succeed</td>
<td>1.5</td>
<td>pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Doubledown</td>
<td>2.5</td>
<td>gal/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Laudis</td>
<td>3</td>
<td>fl oz/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Persist Ultra</td>
<td>1.5</td>
<td>pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Border Xtra 6L</td>
<td>2.5</td>
<td>gal/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Laudis</td>
<td>3</td>
<td>fl oz/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1</td>
<td>pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Superspread MSO</td>
<td>1.5</td>
<td>pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bronc Max E.D.T.</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Means followed by same letter do not significantly differ (P=.10, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
### Postemergence Herbicide Evaluation

<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Pest Name</th>
<th>Crop Name</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Rating Unit</th>
<th>Trt-Eval Interval</th>
<th>Plant-Eval Interval</th>
<th>Trt</th>
<th>Treatment</th>
<th>Rate</th>
<th>Appl Rate</th>
<th>Appl Code</th>
<th>% Control</th>
<th>% Control</th>
<th>% Control</th>
<th>% Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>W Weed</td>
<td>Ladysthumb</td>
<td></td>
<td>Jun-23-2010</td>
<td>control</td>
<td>%</td>
<td>14 DA-A</td>
<td>51 DP-1</td>
<td>1</td>
<td>Nontreated</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Jun-30-2010</td>
<td>control</td>
<td>%</td>
<td>21 DA-A</td>
<td>58 DP-1</td>
<td>2</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Jun-23-2010</td>
<td>control</td>
<td>%</td>
<td>44 DA-A</td>
<td>81 DP-1</td>
<td>3</td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>96 b</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aug-27-2010</td>
<td>control</td>
<td>%</td>
<td>79 DA-A</td>
<td>116 DP-1</td>
<td>4</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>13</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>14</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>15</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>16</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>17</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>18</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>19</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>21</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>22</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>23</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>24</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>26</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>27</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>28</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>29</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>100 a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
</tbody>
</table>

Means followed by same letter do not significantly differ (P=.10, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
## Postemergence Herbicide Evaluation

<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Pest Name</th>
<th>Crop Name</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Rating Unit</th>
<th>Trt-Eval Interval</th>
<th>Plant-Eval Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>W Weed</td>
<td>Redroot pigweed</td>
<td></td>
<td>Jun-23-2010</td>
<td>control</td>
<td>%</td>
<td>14 DA</td>
<td>51 DP-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Jun-30-2010</td>
<td>control</td>
<td>%</td>
<td>21 DA</td>
<td>58 DP-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Jul-23-2010</td>
<td>control</td>
<td>%</td>
<td>44 DA</td>
<td>81 DP-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aug-27-2010</td>
<td>control</td>
<td>%</td>
<td>79 DA</td>
<td>116 DP-1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment Name</th>
<th>Rate</th>
<th>Appl. Unit</th>
<th>Code</th>
<th>5</th>
<th>12</th>
<th>17</th>
<th>22</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSO Concentrate</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSO Concentrate</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>COC</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSO Concentrate</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Weather Guard</td>
<td>Complete</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Destiny HC</td>
<td>0.5 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class Act NG</td>
<td>5 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Interlock</td>
<td>4 oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DYNE-AMIC</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Request</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Grounded</td>
<td>1 gal/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sundance II</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Array</td>
<td>9 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Soy-Stik</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gardian Plus</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Succeed</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Doubledown</td>
<td>2.5 gal/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Persist Ultra</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Border Xtra 6L</td>
<td>2.5 gal/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Superspread MSO</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bronc Max E.D.T.</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LSD (P=.10)</td>
<td></td>
<td></td>
<td></td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td></td>
</tr>
</tbody>
</table>

Means followed by same letter do not significantly differ (P=.10, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Weed</th>
<th>Weed</th>
<th>Weed</th>
<th>Weed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pest Name</td>
<td>Velvetleaf</td>
<td>Velvetleaf</td>
<td>Velvetleaf</td>
<td>Velvetleaf</td>
</tr>
<tr>
<td>Crop Name</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rating Date</td>
<td>Jun-23-2010</td>
<td>Jun-30-2010</td>
<td>Jul-23-2010</td>
<td>Aug-27-2010</td>
</tr>
<tr>
<td>Rating Type</td>
<td>control</td>
<td>control</td>
<td>control</td>
<td>control</td>
</tr>
<tr>
<td>Rating Unit</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
</tr>
<tr>
<td>Trt-Eval Interval</td>
<td>14 DA-A</td>
<td>21 DA-A</td>
<td>44 DA-A</td>
<td>79 DA-A</td>
</tr>
<tr>
<td>Plant-Eval Interval</td>
<td>51 DP-1</td>
<td>58 DP-1</td>
<td>81 DP-1</td>
<td>116 DP-1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment</th>
<th>Rate</th>
<th>Appl Code</th>
<th>Rate Unit</th>
<th>Rate Unit</th>
<th>Rate Unit</th>
<th>Rate Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MSO Concentrate</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Impact</td>
<td>0.75 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MSO Concentrate</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>COC</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MSO Concentrate</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Weather Guard Complete</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Destiny HC</td>
<td>0.5 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Class Act NG</td>
<td>5 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Interlock</td>
<td>4 oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>DYNE-AMIC</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Request</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Grounded</td>
<td>1 gal/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sundance II</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Array</td>
<td>9 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soy-Stik</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Gardian Plus</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Succeed</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Doubledown</td>
<td>2.5 gal/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Persist Ultra</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Border Xtra 6L</td>
<td>2.5 gal/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Laudis</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Superspread MSO</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bronc Max E.D.T.</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LSD (P=.10) 0.0 0.0 0.0 0.0

Means followed by same letter do not significantly differ (P=.10, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
General Trial Information

Study Director: T.L. Trower  
Investigator: C. M. Boerboom

Discipline: Herbicide  
Initiation Date: Apr-28-2010

Trial Location

City: Arlington  
State/Prov.: WI

Personnel

Study Director: T.L. Trower  
Affiliation: UW-Madison  
Address: 1575 Linden Dr.  
Location: Madison, WI  
Postal Code: 53706  
E-mail: ttrower@wisc.edu  
Mobile No.: 608-393-3173

Investigator: C. M. Boerboom

Crop Description

Crop 1: Zea mays indentata Dent corn  
Variety: DKC 48-37  
BBCH Scale: BCOR  
Planting Method: SEEDED seeded  
Rate, Unit: 32400 S/A  
Depth, Unit: 1.5 in  
Row Spacing, Unit: 30 in  
Spacing Within Row, Unit: 7 in  
Seed Bed: SMOOTH smooth  
Soil Moisture: NORMAL normal  
Emergence Date: May-12-2010  
Harvested Width, Unit: 5 FT  
Harvested Length, Unit: 25 FT

Pest Description

Pest 1 Type: W  
Code: SETFA Setaria faberi  
Common Name: Giant foxtail  
Pest 2 Type: W  
Code: CHEAL Chenopodium album  
Common Name: Common lambsquarters  
Pest 3 Type: W  
Code: ABUTH Abutilon theophrasti  
Common Name: Velvetleaf  
Pest 4 Type: W  
Code: AMARE Ambrosia artemisiifolia  
Common Name: Common ragweed  
Pest 5 Type: W  
Code: AMARE Amaranthus retroflexus  
Common Name: Redroot pigweed  
Pest 6 Type: W  
Code: POLPE Polygonum persicaria  
Common Name: Ladysthumb

Site and Design

Plot Width, Unit: 10 FT  
Plot Length, Unit: 25 FT  
Plot Area, Unit: 250 FT²  
Repetitions: 4  
Site Type: CROP  
Tillage Type: CONTIL conventional-till  
Study Design: RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: Silt Loam  
% Sand: 6  
% OM: 3.7  
Texture: SIL silt loam  
% Silt: 71  
pH: 6.7  
Soil Name: Plano  
% Clay: 23  
CEC: 12

Additional Measured Elements

<table>
<thead>
<tr>
<th>Element</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphous</td>
<td>22</td>
<td>ppm</td>
</tr>
<tr>
<td>Potassium</td>
<td>103</td>
<td>ppm</td>
</tr>
<tr>
<td>Calcium</td>
<td>1596</td>
<td>ppm</td>
</tr>
<tr>
<td>Magnesium</td>
<td>474</td>
<td>ppm</td>
</tr>
</tbody>
</table>
Application Description

<table>
<thead>
<tr>
<th>Application Date:</th>
<th>Jun-2-2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time of Day:</td>
<td>12:00p</td>
</tr>
<tr>
<td>Application Method:</td>
<td>Broadcast</td>
</tr>
<tr>
<td>Application Timing:</td>
<td>Post</td>
</tr>
<tr>
<td>Application Placement:</td>
<td>Foliar</td>
</tr>
<tr>
<td>Applied By:</td>
<td>T. Trower</td>
</tr>
<tr>
<td>Air Temperature, Unit:</td>
<td>76°F</td>
</tr>
<tr>
<td>% Relative Humidity:</td>
<td>59%</td>
</tr>
<tr>
<td>Wind Velocity, Unit:</td>
<td>3.5 MPH</td>
</tr>
<tr>
<td>Wind Direction:</td>
<td>N</td>
</tr>
<tr>
<td>Dew Presence (Y/N):</td>
<td>N no</td>
</tr>
<tr>
<td>Soil Temperature, Unit:</td>
<td>76°F</td>
</tr>
<tr>
<td>Soil Moisture:</td>
<td>DRY/MOIST</td>
</tr>
<tr>
<td>% Cloud Cover:</td>
<td>100%</td>
</tr>
</tbody>
</table>

Crop Stage At Each Application

<table>
<thead>
<tr>
<th>Crop 1 Code, BBCH Scale:</th>
<th>ZEAMD BCOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stage Scale Used:</td>
<td>BBCH</td>
</tr>
<tr>
<td>Stage Majority, Percent:</td>
<td>V3</td>
</tr>
<tr>
<td>Stage Maximum, Percent:</td>
<td>V4</td>
</tr>
<tr>
<td>Height, Unit:</td>
<td>9 IN</td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>8-9</td>
</tr>
</tbody>
</table>

Pest Stage At Each Application

<table>
<thead>
<tr>
<th>Pest 1 Code, Type, Scale:</th>
<th>SETFA W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stage Majority, Percent:</td>
<td>3 lvs</td>
</tr>
<tr>
<td>Stage Minimum, Percent:</td>
<td>4 lvs</td>
</tr>
<tr>
<td>Height, Unit:</td>
<td>6 IN</td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>5-8</td>
</tr>
<tr>
<td>Density, Unit:</td>
<td>10 FT²</td>
</tr>
<tr>
<td>Pest 2 Code, Type, Scale:</td>
<td>CHEAL W</td>
</tr>
<tr>
<td>Stage Minimum, Percent:</td>
<td>6 lvs</td>
</tr>
<tr>
<td>Stage Maximum, Percent:</td>
<td>7 lvs</td>
</tr>
<tr>
<td>Height, Unit:</td>
<td>3 IN</td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>2-3</td>
</tr>
<tr>
<td>Density, Unit:</td>
<td>4 FT²</td>
</tr>
<tr>
<td>Pest 3 Code, Type, Scale:</td>
<td>ABUTH W</td>
</tr>
<tr>
<td>Stage Minimum, Percent:</td>
<td>3 lvs</td>
</tr>
<tr>
<td>Stage Maximum, Percent:</td>
<td>4 lvs</td>
</tr>
<tr>
<td>Height, Unit:</td>
<td>3 IN</td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>3-4</td>
</tr>
<tr>
<td>Density, Unit:</td>
<td>7 FT²</td>
</tr>
<tr>
<td>Pest 4 Code, Type, Scale:</td>
<td>AMBEL W</td>
</tr>
<tr>
<td>Stage Minimum, Percent:</td>
<td>4 lvs</td>
</tr>
<tr>
<td>Stage Maximum, Percent:</td>
<td>6 lvs</td>
</tr>
<tr>
<td>Height, Unit:</td>
<td>3 IN</td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>2-4</td>
</tr>
<tr>
<td>Density, Unit:</td>
<td>1 FT²</td>
</tr>
<tr>
<td>Pest 5 Code, Type, Scale:</td>
<td>AMARE W</td>
</tr>
<tr>
<td>Stage Majority, Percent:</td>
<td>7 lvs</td>
</tr>
<tr>
<td>Height, Unit:</td>
<td>3 IN</td>
</tr>
<tr>
<td>Density, Unit:</td>
<td>2 FT²</td>
</tr>
</tbody>
</table>

Application Equipment

<table>
<thead>
<tr>
<th>Equipment Type:</th>
<th>SPRBAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Pressure, Unit:</td>
<td>23 PSI</td>
</tr>
<tr>
<td>Nozzle Type:</td>
<td>Flat Fan</td>
</tr>
<tr>
<td>Nozzle Size:</td>
<td>XR 8003</td>
</tr>
<tr>
<td>Nozzle Spacing, Unit:</td>
<td>20 IN</td>
</tr>
<tr>
<td>% Coverage:</td>
<td>100</td>
</tr>
<tr>
<td>Boom ID:</td>
<td>20 GPA</td>
</tr>
<tr>
<td>Boom Length, Unit:</td>
<td>10 FT</td>
</tr>
<tr>
<td>Boom Height, Unit:</td>
<td>19 IN</td>
</tr>
<tr>
<td>Ground Speed, Unit:</td>
<td>3 MPH</td>
</tr>
<tr>
<td>Carrier:</td>
<td>WATER</td>
</tr>
<tr>
<td>Spray Volume, Unit:</td>
<td>20 gal/ac</td>
</tr>
<tr>
<td>Mix Size, Unit:</td>
<td>2.2 liters</td>
</tr>
<tr>
<td>Propellant:</td>
<td>COMCO2</td>
</tr>
</tbody>
</table>

Date  By  Notes
Jun-2-2010  T. Trower  80% ground cover at application.
### Capreno- Adjuvant Evaluation

<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Pest Name</th>
<th>Crop Name</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Rating Unit</th>
<th>Trt-Eval Interval</th>
<th>Plant-Eval Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dent corn</td>
<td>Dent corn</td>
<td>Dent corn</td>
<td>Dent corn</td>
<td>YIELD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rating</th>
<th>Date</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2010</td>
<td>2010</td>
<td>2010</td>
<td>2010</td>
<td>2010</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment Name</th>
<th>Rate</th>
<th>Unit</th>
<th>Appl Code</th>
<th>1</th>
<th>2</th>
<th>9</th>
<th>10</th>
<th>30</th>
<th>123</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>220 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Halex GT</td>
<td>3.6 pt/a</td>
<td>A</td>
<td></td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>221 a</td>
</tr>
<tr>
<td></td>
<td>Activator 90</td>
<td>0.25 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>224 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Roundup PowerMax</td>
<td>22 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Superb HC</td>
<td>0.5 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>217 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Weather Guard</td>
<td>Complete</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>234 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Superb HC</td>
<td>0.5 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Class Act</td>
<td>5 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Interlock</td>
<td>4 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>226 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Hei-Fire</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Grounded</td>
<td>1 gal/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>220 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Array</td>
<td>9 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>225 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Trophy Gold</td>
<td>1 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gardian Plus</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>229 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Doubledown</td>
<td>2.5 gal/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>223 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>0.375 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Border Xtra 8L</td>
<td>2.6 gal/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>a</td>
<td>0</td>
<td>234 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Bronc Max E.D.T</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**Means followed by same letter do not significantly differ (P=.10, LSD)**
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
# Capreno- Adjuvant Evaluation

## Untreated treatment(s) excluded from analysis.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

<table>
<thead>
<tr>
<th>No.</th>
<th>Plant</th>
<th>Rating Unit</th>
<th>Rating Type</th>
<th>Crop Name</th>
<th>Pest Type</th>
<th>Pest Name</th>
<th>Rate</th>
<th>Unit</th>
<th>Appl Code</th>
<th>Trt Eval Interval</th>
<th>Plant Eval Interval</th>
<th>LSD (P=.10)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td>86 a</td>
<td>12</td>
<td>100 a</td>
<td>5</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td>3</td>
<td>Halex GT</td>
<td>3.6 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td>81 a</td>
<td>12</td>
<td>100 a</td>
<td>5</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Activator 90</td>
<td>0.25 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td>4</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td>86 a</td>
<td>12</td>
<td>100 a</td>
<td>5</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Roundup PowerMax</td>
<td>22 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Superb HC</td>
<td>0.5 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td>5</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td>91 a</td>
<td>12</td>
<td>100 a</td>
<td>5</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Weather Guard</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td>6</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td>81 a</td>
<td>12</td>
<td>100 a</td>
<td>5</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Superb HC</td>
<td>0.5 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Class Act</td>
<td>5 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Interlock</td>
<td>4 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td>7</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td>82 a</td>
<td>12</td>
<td>100 a</td>
<td>5</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Hel-Fire</td>
<td>1 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Grounded</td>
<td>1 gal/100</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td>8</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td>84 a</td>
<td>12</td>
<td>100 a</td>
<td>5</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Array</td>
<td>9 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td>9</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td>85 a</td>
<td>12</td>
<td>100 a</td>
<td>5</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Trophy Gold</td>
<td>1 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Gardian Plus</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td>10</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td>86 a</td>
<td>12</td>
<td>100 a</td>
<td>5</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Doubledown</td>
<td>2.5 gal/100</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td>11</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td>88 a</td>
<td>12</td>
<td>100 a</td>
<td>5</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>0.375 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Border Xtra 8L</td>
<td>2.5 gal/100</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td>12</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td>85 a</td>
<td>12</td>
<td>100 a</td>
<td>5</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Bronc Max E.D.T</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100 a</td>
<td>121 DA</td>
<td>7.4</td>
</tr>
</tbody>
</table>

Means followed by same letter do not significantly differ (P=.10, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) excluded from analysis.
## Capreno- Adjuvant Evaluation

<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Common weed</th>
<th>Common weed</th>
<th>Common weed</th>
<th>Common weed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pest Name</strong></td>
<td>Common ragweed</td>
<td>Common ragweed</td>
<td>Common ragweed</td>
<td>Common ragweed</td>
</tr>
<tr>
<td><strong>Crop Name</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Rating Date</strong></td>
<td>Jun-9-2010</td>
<td>Jun-17-2010</td>
<td>Jul-12-2010</td>
<td>Aug-27-2010</td>
</tr>
<tr>
<td><strong>Rating Type</strong></td>
<td>control</td>
<td>control</td>
<td>control</td>
<td>control</td>
</tr>
<tr>
<td><strong>Trt Eval Interval</strong></td>
<td>7 DA</td>
<td>15 DA</td>
<td>40 DA</td>
<td>86 DA</td>
</tr>
<tr>
<td><strong>Plant Eval Interval</strong></td>
<td>42 DP</td>
<td>50 DP</td>
<td>75 DP</td>
<td>121 DP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment Name</th>
<th>Rate</th>
<th>Unit Appl Code</th>
<th>7</th>
<th>14</th>
<th>20</th>
<th>26</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>79 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Halex GT</td>
<td>3.6 pt/a</td>
<td>A</td>
<td>90 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>Activator 90</td>
<td>0.25 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>91 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roundup PowerMax</td>
<td>22 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Superb HC</td>
<td>0.5 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>81 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Weather Guard Complete</td>
<td>2 qt/100 gal A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>75 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Superb HC</td>
<td>0.5 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class Act</td>
<td>5 qt/100 gal A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Interlock</td>
<td>4 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>79 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>2 qt/100 gal A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hel-Fire</td>
<td>1 gal/100 gal A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Grounded</td>
<td>1 gal/100 gal A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>72 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Array</td>
<td>9 lb/100 gal A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>75 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trophy Gold</td>
<td>1 qt/100 gal A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gardian Plus</td>
<td>2 qt/100 gal A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>73 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Doubledown</td>
<td>2.5 gal/100 gal A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>76 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>0.375 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Border Xtra 8L</td>
<td>2.5 gal/100 gal A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>92 a</td>
<td>100 a</td>
<td>100 a</td>
<td>100 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bronc Max E.D.T</td>
<td>2 qt/100 gal A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Means followed by same letter do not significantly differ (P=10, LSD)**

**Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.**

**Untreated treatment(s) 1 excluded from analysis.**
<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment</th>
<th>Rate</th>
<th>Unit</th>
<th>Code</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Rating Unit</th>
<th>Trt-Eval Interval</th>
<th>Plant-Eval Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>4</td>
<td>Jun-9-2010</td>
<td>control</td>
<td>%</td>
<td>7 DA-A</td>
<td>42 DP-1</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td>11</td>
<td>Jun-17-2010</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td>17</td>
<td>Jul-12-2010</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td>23</td>
<td>Aug-27-2010</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Halex GT</td>
<td>3.6 pt/a</td>
<td>A</td>
<td>4</td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Activator 90</td>
<td>0.25 % v/v</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>4</td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roundup PowerMax</td>
<td>22 fl oz/a</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Superb HC</td>
<td>0.5 % v/v</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>4</td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Weather Guard Complete</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>4</td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Superb HC</td>
<td>0.5 % v/v</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class Act</td>
<td>5 qt/100 gal</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Interlock</td>
<td>4 fl oz/a</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>4</td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hei-Fire</td>
<td>1 qt/100 gal</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Grounded</td>
<td>1 gal/100 gal</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>4</td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1.5 pt/a</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Array</td>
<td>9 lb/100 gal</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>4</td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trophy Gold</td>
<td>1 qt/100 gal</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gardian Plus</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>4</td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Doubledown</td>
<td>2.5 gal/100 gal</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>4</td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>0.375 % v/v</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Border Xtra 8L</td>
<td>2.6 gal/100 gal</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>4</td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1.5 pt/a</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bronc Max E.D.T</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Means followed by same letter do not significantly differ (P=.10, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
### Capreno- Adjuvant Evaluation

<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Pest Name</th>
<th>Crop Name</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Rating Unit</th>
<th>Trt-Eval Interval</th>
<th>Plant-Eval Interval</th>
<th>W Weed Ladysthumb</th>
<th>W Weed Ladysthumb</th>
<th>W Weed Ladysthumb</th>
<th>W Weed Ladysthumb</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Jun-9-2010</td>
<td>control</td>
<td>%</td>
<td>7 DA-A</td>
<td>42 DP-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Jun-17-2010</td>
<td>control</td>
<td>%</td>
<td>15 DA-A</td>
<td>50 DP-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Jul-12-2010</td>
<td>control</td>
<td>%</td>
<td>40 DA-A</td>
<td>75 DP-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aug-27-2010</td>
<td>control</td>
<td>%</td>
<td>86 DA-A</td>
<td>121 DP-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Treatment Details

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment</th>
<th>Rate Type</th>
<th>Rate Unit</th>
<th>Appl Code</th>
<th>3</th>
<th>16</th>
<th>22</th>
<th>28</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>70</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Hallex GT</td>
<td>3.6 pt/a</td>
<td>A</td>
<td></td>
<td>45</td>
<td>100</td>
<td>97</td>
<td>97</td>
</tr>
<tr>
<td></td>
<td>Activator 90</td>
<td>0.25 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>69</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roundup PowerMax</td>
<td>22 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Superb HC</td>
<td>0.5 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>45</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Weather Guard Complete</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>74</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Superb HC</td>
<td>0.5 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class Act</td>
<td>5 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Interlock</td>
<td>4 fl oz/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>48</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hel-Fire</td>
<td>1 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Grounded</td>
<td>1 gal/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>21</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Array</td>
<td>9 lb/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>70</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trophy Gold</td>
<td>1 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gardian Plus</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>71</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Doubledown</td>
<td>2.5 gal/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>70</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>0.375 % v/v</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Border Xtra 8L</td>
<td>2.5 gal/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td></td>
<td>72</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bronc Max E.D.T</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**LSD (P=.10)**

|          | 31.8 | 0.0 | 0.9 | 1.0 |

Means followed by same letter do not significantly differ (P=.10, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
## Capreno- Adjuvant Evaluation

<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Pest Name</th>
<th>Crop Name</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Rating Unit</th>
<th>Trt Eval Interval</th>
<th>Plant Eval Interval</th>
<th>W Weed Redroot pigweed</th>
<th>W Weed Redroot pigweed</th>
<th>W Weed Redroot pigweed</th>
<th>W Weed Redroot pigweed</th>
</tr>
</thead>
<tbody>
<tr>
<td>untreated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Untreated treatment(s) 1 excluded from analysis.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

LSD (P=.10) 8.1 0.0 0.0 0.0

Means followed by same letter do not significantly differ (P=.10, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Untreated treatment(s) 1 excluded from analysis.
## Capreno- Adjuvant Evaluation

<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Weed</th>
<th>Weed</th>
<th>Weed</th>
<th>Weed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pest Name</td>
<td>Velvetleaf</td>
<td>Velvetleaf</td>
<td>Velvetleaf</td>
<td>Velvetleaf</td>
</tr>
<tr>
<td>Crop Name</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rating Date</td>
<td>Jun-9-2010 control</td>
<td>Jun-17-2010 control</td>
<td>Jul-12-2010 control</td>
<td>Aug-27-2010 control</td>
</tr>
<tr>
<td>Rating Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rating Unit</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
</tr>
<tr>
<td>Trt-Eval Interval</td>
<td>7 DA-A</td>
<td>15 DA-A</td>
<td>40 DA-A</td>
<td>86 DA-A</td>
</tr>
<tr>
<td>Plant-Eval Interval</td>
<td>42 DP-1</td>
<td>50 DP-1</td>
<td>75 DP-1</td>
<td>121 DP-1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment Name</th>
<th>Rate</th>
<th>Unit</th>
<th>Appl Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>83 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Halex GT</td>
<td>3.6 pt/a</td>
<td>A</td>
<td>89 a</td>
</tr>
<tr>
<td></td>
<td>Activator 90</td>
<td>0.25 % v/v</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>94 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roundup PowerMax</td>
<td>22 fl oz/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Superb HC</td>
<td>0.5 % v/v</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>79 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Weather Guard</td>
<td></td>
<td></td>
<td>Complete</td>
</tr>
<tr>
<td>6</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>74 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Superb HC</td>
<td>0.5 % v/v</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class Act</td>
<td>5 qt/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Interlock</td>
<td>4 fl oz/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>82 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hel-Fire</td>
<td>1 qt/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Grounded</td>
<td>1 gal/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>82 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Array</td>
<td>9 lb/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>75 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trophy Gold</td>
<td>1 qt/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gardian Plus</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>82 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1 % v/v</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Doubledown</td>
<td>2.5 gal/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>75 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>0.375 % v/v</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Border Xtra 8L</td>
<td>2.5 gal/100 gal</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Capreno</td>
<td>3 fl oz/a</td>
<td>A</td>
<td>84 a</td>
</tr>
<tr>
<td></td>
<td>atrazine</td>
<td>1 pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herbimax</td>
<td>1.5 pt/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bronc Max E.D.T</td>
<td>2 qt/100 gal</td>
<td>A</td>
<td></td>
</tr>
</tbody>
</table>

LSD (P=.10) 11.7 0.0 0.0 0.0

Means followed by same letter do not significantly differ (P=.10, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
## Ignite: Benefit of Soil-Applied Herbicides

**Study Director:** C. M. Boerboom

### Pest Code
- GLXMA
- GLXMA
- GLXMA

### BBCH Scale
- Soybean
- Soybean
- Soybean

### Crop Name
- Ignite 280
- Ignite 280
- Ignite 280

### Pest Name
- Giant foxtail
- Common lambsquarters
- Velvetleaf

### Rating Date
- Jun-29-2010
- Jun-29-2010
- Jun-29-2010

### Rating Type
- PHYSTU
- PHYNEC
- pucking

### Number of Subsamples
- 1
- 1
- 1

### Days After First/Last Applic.
- 34
- 6
- 6

### Trt-Eval Interval
- 6 DA-B
- 6 DA-B
- 6 DA-B

### Plant-Eval Interval
- 35 DP-1
- 35 DP-1
- 35 DP-1

### Days After Emergence
- 27 DE-
- 27 DE-
- 27 DE-

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment</th>
<th>Rate</th>
<th>Unit</th>
<th>Code</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td>0</td>
<td>f</td>
<td>c</td>
<td>0</td>
<td>d</td>
<td>0</td>
<td>e</td>
<td>0</td>
<td>d</td>
</tr>
<tr>
<td>2</td>
<td>Prefix</td>
<td>2</td>
<td>pt/a</td>
<td>A</td>
<td>1</td>
<td>f</td>
<td>0</td>
<td>c</td>
<td>0</td>
<td>d</td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td>22</td>
<td>fl oz/a</td>
<td>C</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal C</td>
<td>9</td>
<td>6</td>
<td>9</td>
<td>3</td>
<td>5</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Ignite 280</td>
<td>22</td>
<td>fl oz/a</td>
<td>B</td>
<td>0</td>
<td>f</td>
<td>0</td>
<td>c</td>
<td>1</td>
<td>d</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal B</td>
<td>9</td>
<td>4</td>
<td>9</td>
<td>9</td>
<td>10</td>
<td>a</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Ignite 280</td>
<td>22</td>
<td>fl oz/a</td>
<td>B</td>
<td>0</td>
<td>f</td>
<td>0</td>
<td>c</td>
<td>1</td>
<td>d</td>
</tr>
<tr>
<td></td>
<td>Prefix</td>
<td>2</td>
<td>pt/a</td>
<td>B</td>
<td>18</td>
<td>a</td>
<td>10</td>
<td>a</td>
<td>33</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal B</td>
<td>9</td>
<td>7</td>
<td>9</td>
<td>10</td>
<td>10</td>
<td>a</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Ignite 280</td>
<td>22</td>
<td>fl oz/a</td>
<td>B</td>
<td>0</td>
<td>f</td>
<td>0</td>
<td>c</td>
<td>1</td>
<td>d</td>
</tr>
<tr>
<td></td>
<td>Dual II Magnum</td>
<td>1.33</td>
<td>pt/a</td>
<td>B</td>
<td>6</td>
<td>cde</td>
<td>6</td>
<td>b</td>
<td>31</td>
<td>ab</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal B</td>
<td>9</td>
<td>9</td>
<td>10</td>
<td>a</td>
<td>9</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Ignite 280</td>
<td>22</td>
<td>fl oz/a</td>
<td>B</td>
<td>0</td>
<td>f</td>
<td>0</td>
<td>c</td>
<td>1</td>
<td>d</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal B</td>
<td>9</td>
<td>9</td>
<td>10</td>
<td>a</td>
<td>9</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Ignite 280</td>
<td>22</td>
<td>fl oz/a</td>
<td>B</td>
<td>0</td>
<td>f</td>
<td>0</td>
<td>c</td>
<td>1</td>
<td>d</td>
</tr>
<tr>
<td></td>
<td>MON 63410</td>
<td>3</td>
<td>pt/a</td>
<td>B</td>
<td>19</td>
<td>a</td>
<td>0</td>
<td>c</td>
<td>23</td>
<td>bc</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal B</td>
<td>9</td>
<td>9</td>
<td>10</td>
<td>a</td>
<td>9</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Ignite 280</td>
<td>22</td>
<td>fl oz/a</td>
<td>B</td>
<td>0</td>
<td>f</td>
<td>0</td>
<td>c</td>
<td>0</td>
<td>d</td>
</tr>
<tr>
<td></td>
<td>Pursuit</td>
<td>4</td>
<td>fl oz/a</td>
<td>B</td>
<td>7</td>
<td>cd</td>
<td>6</td>
<td>b</td>
<td>5</td>
<td>d</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal B</td>
<td>9</td>
<td>9</td>
<td>10</td>
<td>a</td>
<td>9</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Ignite 280</td>
<td>22</td>
<td>fl oz/a</td>
<td>B</td>
<td>0</td>
<td>f</td>
<td>0</td>
<td>c</td>
<td>0</td>
<td>d</td>
</tr>
<tr>
<td></td>
<td>Outlook</td>
<td>16</td>
<td>fl oz/a</td>
<td>B</td>
<td>7</td>
<td>cd</td>
<td>7</td>
<td>b</td>
<td>20</td>
<td>c</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal B</td>
<td>9</td>
<td>9</td>
<td>10</td>
<td>a</td>
<td>9</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Ignite 280</td>
<td>22</td>
<td>fl oz/a</td>
<td>B</td>
<td>0</td>
<td>f</td>
<td>0</td>
<td>c</td>
<td>0</td>
<td>d</td>
</tr>
<tr>
<td></td>
<td>Firstrate</td>
<td>0.6</td>
<td>oz/a</td>
<td>B</td>
<td>19</td>
<td>a</td>
<td>0</td>
<td>c</td>
<td>23</td>
<td>bc</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal B</td>
<td>9</td>
<td>9</td>
<td>10</td>
<td>a</td>
<td>9</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Ignite 280</td>
<td>22</td>
<td>fl oz/a</td>
<td>B</td>
<td>0</td>
<td>f</td>
<td>0</td>
<td>c</td>
<td>0</td>
<td>d</td>
</tr>
<tr>
<td></td>
<td>Harness</td>
<td>1.29</td>
<td>pt/a</td>
<td>B</td>
<td>7</td>
<td>cd</td>
<td>7</td>
<td>b</td>
<td>20</td>
<td>c</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal B</td>
<td>9</td>
<td>9</td>
<td>10</td>
<td>a</td>
<td>9</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Nontreated</td>
<td>0</td>
<td>f</td>
<td>c</td>
<td>0</td>
<td>d</td>
<td>0</td>
<td>e</td>
<td>0</td>
<td>d</td>
</tr>
<tr>
<td>13</td>
<td>Authority Brodiaef</td>
<td>4</td>
<td>oz/a</td>
<td>A</td>
<td>0</td>
<td>f</td>
<td>0</td>
<td>c</td>
<td>0</td>
<td>d</td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td>22</td>
<td>fl oz/a</td>
<td>C</td>
<td>0</td>
<td>f</td>
<td>0</td>
<td>c</td>
<td>0</td>
<td>d</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal C</td>
<td>9</td>
<td>9</td>
<td>10</td>
<td>a</td>
<td>9</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Authority First</td>
<td>4</td>
<td>oz/a</td>
<td>A</td>
<td>0</td>
<td>f</td>
<td>0</td>
<td>c</td>
<td>0</td>
<td>d</td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td>22</td>
<td>fl oz/a</td>
<td>C</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal C</td>
<td>9</td>
<td>9</td>
<td>10</td>
<td>a</td>
<td>9</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Authority Assist</td>
<td>6</td>
<td>fl oz/a</td>
<td>A</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td>22</td>
<td>fl oz/a</td>
<td>C</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5</td>
<td>lb/100 gal C</td>
<td>9</td>
<td>9</td>
<td>10</td>
<td>a</td>
<td>9</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Valor SX</td>
<td>2</td>
<td>oz/a</td>
<td>A</td>
<td>13</td>
<td>b</td>
<td>13</td>
<td>b</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

### Study Sponsor:
- University of Wisconsin-Madison

### Protocol ID:
- 10ARLSB03

### Location:
- Arlington

### Project ID:
- 10ARLSB03
<table>
<thead>
<tr>
<th></th>
<th>22 fl oz/a</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
</tr>
</tbody>
</table>
### University of Wisconsin-Madison

**Ignite: Beniflt of Soil-Applied Herbicides**

<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Pest Code</th>
<th>Pest Scientific Name</th>
<th>Crop Code</th>
<th>Crop Scientific Name</th>
<th>Crop Name</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Number of Subsamples</th>
<th>Days After First/Last Applic.</th>
<th>Trt-Eval Interval</th>
<th>Days After Emergence</th>
<th>Treatment</th>
<th>Rate Unit</th>
<th>Appl Code</th>
<th>Rate</th>
<th>Unit</th>
<th>Appl Code</th>
<th>Rate</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>GLXMA</td>
<td>GLXMA</td>
<td>GLXMA</td>
<td>Jun-29-2010</td>
<td>PHYSTU</td>
<td></td>
<td>34</td>
<td>6 DA-B</td>
<td>27 DE-</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>4</td>
<td>0</td>
<td>c</td>
<td>0</td>
<td>d</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>BSOY</td>
<td>BSOY</td>
<td>BSOY</td>
<td>Jun-29-2010</td>
<td>PHYNEC</td>
<td></td>
<td>34</td>
<td>6 DA-B</td>
<td>27 DE-</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>0</td>
<td>0</td>
<td>d</td>
<td>0</td>
<td>e</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>GLXMA</td>
<td>GLXMA</td>
<td>GLXMA</td>
<td>Jun-29-2010</td>
<td>PHYSTU</td>
<td></td>
<td>34</td>
<td>6 DA-B</td>
<td>27 DE-</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>0</td>
<td>0</td>
<td>e</td>
<td>0</td>
<td>f</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>GLXMA</td>
<td>GLXMA</td>
<td>GLXMA</td>
<td>Jun-29-2010</td>
<td>PHYNEC</td>
<td></td>
<td>34</td>
<td>6 DA-B</td>
<td>27 DE-</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>0</td>
<td>0</td>
<td>e</td>
<td>0</td>
<td>f</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>GLXMA</td>
<td>GLXMA</td>
<td>GLXMA</td>
<td>Jun-29-2010</td>
<td>PHYSTU</td>
<td></td>
<td>34</td>
<td>6 DA-B</td>
<td>27 DE-</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>0</td>
<td>0</td>
<td>e</td>
<td>0</td>
<td>f</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>GLXMA</td>
<td>GLXMA</td>
<td>GLXMA</td>
<td>Jun-29-2010</td>
<td>PHYNEC</td>
<td></td>
<td>34</td>
<td>6 DA-B</td>
<td>27 DE-</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>0</td>
<td>0</td>
<td>e</td>
<td>0</td>
<td>f</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>GLXMA</td>
<td>GLXMA</td>
<td>GLXMA</td>
<td>Jun-29-2010</td>
<td>PHYSTU</td>
<td></td>
<td>34</td>
<td>6 DA-B</td>
<td>27 DE-</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>0</td>
<td>0</td>
<td>e</td>
<td>0</td>
<td>f</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>GLXMA</td>
<td>GLXMA</td>
<td>GLXMA</td>
<td>Jun-29-2010</td>
<td>PHYNEC</td>
<td></td>
<td>34</td>
<td>6 DA-B</td>
<td>27 DE-</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>0</td>
<td>0</td>
<td>e</td>
<td>0</td>
<td>f</td>
</tr>
</tbody>
</table>

Means followed by same letter do not significantly differ (P=.10, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
### Ignite: Benefit of Soil-Applied Herbicides

| Crop Name          | Crop Scientific Name | BBCH Scale | Pest Scientific Name | Project ID | Eval Interval | Rate | Sponsor | Code | Appl | Rate Unit | No. | Rate Unit | Code |
|--------------------|----------------------|------------|----------------------|------------|---------------|------|---------|------|------|-----------|-----|-----------|------|------|------|
| Soybean            | GLXMA                | 10         | Redroot pigweed      | 16         | Jun-29-2010   | 27  DE | AMS     | A    | 22 fl oz/a | C     | 99 a       | 97 b | 20 a       | 0 f  | 0 e       | 91 b |
| GRXMA              | GLXMA                | 35         | Common ragweed       | 10         | Jun-29-2010   | 27  DE | AMS     | B    | 22 fl oz/a | B     | 100 a      | 100 a | 20 a       | 3 de | 0 e       | 99 a |
| BHOY               | GLXMA                | 35         | Glyceria max         | 11         | Jun-29-2010   | 27  DE | AMS     | A    | 22 fl oz/a | C     | 100 a      | 100 a | 20 a       | 18 a | 7 a       | 99 a |
| BSOY               | GLXMA                | 38         | Glycine max          | 12         | Jun-29-2010   | 27  DE | AMS     | B    | 22 fl oz/a | B     | 100 a      | 100 a | 20 a       | 19 a | 7 a       | 99 a |
| Dual II Magnum     | GLXMA                | 30         | Setaria faberi       | 13         | Jun-29-2010   | 27  DE | AMS     | B    | 1.33 pt/a  | B     | 100 a      | 100 a | 20 a       | 7 c  | 2 cd      | 99 a |
| GRXMA              | GLXMA                | 34         | Glycine max          | 14         | Jun-29-2010   | 27  DE | AMS     | B    | 8.5 lb/100 gal | B     | 100 a      | 100 a | 20 a       | 6 cd | 1 de      | 98 a |
| Pursuit            | GLXMA                | 34         | Glycine max          | 15         | Jul-29-2010   | 27  DE | AMS     | B    | 4 fl oz/a  | B     | 100 a      | 100 a | 20 a       | 0 f  | 2 cd      | 100 a |
| Outlook            | GLXMA                | 34         | Glycine max          | 16         | Jul-29-2010   | 27  DE | AMS     | B    | 16 fl oz/a | B     | 100 a      | 100 a | 20 a       | 5 cd | 1 de      | 98 a |
| Firstrate          | GLXMA                | 34         | Glycine max          | 17         | Jul-29-2010   | 27  DE | AMS     | B    | 8.5 lb/100 gal | B     | 100 a      | 100 a | 20 a       | 14 b | 2 bc      | 100 a |
| Harness            | GLXMA                | 34         | Glycine max          | 18         | Jul-29-2010   | 27  DE | AMS     | B    | 1.29 pt/a  | B     | 100 a      | 100 a | 20 a       | 14 b | 2 bc      | 100 a |
| Valor SX           | GLXMA                | 34         | Glycine max          | 19         | Jul-29-2010   | 27  DE | AMS     | B    | 8.5 lb/100 gal | B     | 100 a      | 100 a | 20 a       | 14 b | 2 bc      | 100 a |

### Notes:
- **Crop Name:** Various crop names are listed, including Soybean, Redroot pigweed, and Common ragweed.
- **Pest Scientific Name:** Different pest species are mentioned, such as Redroot pigweed and Common ragweed.
- **Eval Interval:** Evaluated at different intervals, such as 27 DE and 27 DE.
- **Rate:** Rates of herbicide application are varied, ranging from 2 fl oz/a to 22 fl oz/a.
- **Sponsor:** Different sponsors are noted, including C. M. Boerboom.
- **Crop Code:** Crop codes are also specified, with codes such as AMS and BHOY.

This table provides a detailed breakdown of herbicide treatments and evaluations, indicating the benefits of soil-applied herbicides.
<table>
<thead>
<tr>
<th>Ignite 280</th>
<th>22 fl oz/a</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
</tr>
</tbody>
</table>
### University of Wisconsin-Madison

#### Ignite: Benefit of Soil-Applied Herbicides

<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Weed</th>
<th>Weed</th>
<th>Weed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pest Code</td>
<td>AMARE</td>
<td>AMBEL</td>
<td>GLXMA</td>
</tr>
<tr>
<td>Pest Scientific Name</td>
<td>Amaranthus retroflexus</td>
<td>Ambrosia artemisiifolia</td>
<td>Glycine max</td>
</tr>
<tr>
<td>Pest Name</td>
<td>Redroot pigweed</td>
<td>Common ragweed</td>
<td>Giant foxtail</td>
</tr>
<tr>
<td>Crop Code</td>
<td>GLXMA</td>
<td>GLXMA</td>
<td>GLXMA</td>
</tr>
<tr>
<td>BBCH Scale</td>
<td>BSOY</td>
<td>BSOY</td>
<td>BSOY</td>
</tr>
<tr>
<td>Crop Scientific Name</td>
<td>Glycine max</td>
<td>Glycine max</td>
<td>Glycine max</td>
</tr>
<tr>
<td>Crop Name</td>
<td>Soybean</td>
<td>Soybean</td>
<td>Soybean</td>
</tr>
<tr>
<td>Rating Date</td>
<td>Jun-29-2010</td>
<td>Jun-29-2010</td>
<td>Jul-2-2010</td>
</tr>
<tr>
<td>Rating Type</td>
<td>control</td>
<td>control</td>
<td>crop height</td>
</tr>
<tr>
<td>Rating Unit</td>
<td>%</td>
<td>cm</td>
<td>%</td>
</tr>
<tr>
<td>Number of Subsamples</td>
<td>1</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Days After First/Last Applic.</td>
<td>34</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Trt-Eval Interval</td>
<td>6 DA-B</td>
<td>6 DA-B</td>
<td>9 DA-B</td>
</tr>
<tr>
<td>Plant-Eval Interval</td>
<td>35 DP-1</td>
<td>35 DP-1</td>
<td>42 DP-1</td>
</tr>
<tr>
<td>Days After Emergence</td>
<td>27 DE-</td>
<td>27 DE-</td>
<td>34 DE-</td>
</tr>
</tbody>
</table>

### Treatment Table

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment</th>
<th>Rate</th>
<th>Appl Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>Enlite</td>
<td>0.08 oz ai/a</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>chlorimuron ethyl</td>
<td>1 oz/a</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>thifensulfuron</td>
<td>2 oz/a</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>valor SX</td>
<td>22 fl oz/a</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>Sharpen</td>
<td>0.25 oz ai/a</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td>2 oz/a</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>Op-Till</td>
<td>88 b</td>
<td></td>
</tr>
</tbody>
</table>

### LSD (P=.10)

<table>
<thead>
<tr>
<th>LSD</th>
<th>7.8</th>
<th>1.8</th>
<th>6.8</th>
<th>2.8</th>
<th>1.4</th>
<th>4.6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Deviation</td>
<td>6.6</td>
<td>1.5</td>
<td>5.7</td>
<td>2.4</td>
<td>1.2</td>
<td>3.9</td>
</tr>
<tr>
<td>CV</td>
<td>7.48</td>
<td>1.67</td>
<td>72.64</td>
<td>120.06</td>
<td>4.98</td>
<td></td>
</tr>
<tr>
<td>Bartlett's X2</td>
<td>25.976</td>
<td>1.073</td>
<td>1.533</td>
<td>0.783</td>
<td>0.327</td>
<td></td>
</tr>
</tbody>
</table>

### P(Bartlett's X2)

| P(Bartlett's X2) | 0.001* | 0.001* | 0.253 | 0.021* | 0.001* |

### Replicate F

<table>
<thead>
<tr>
<th>Replicate F</th>
<th>0.995</th>
<th>1.000</th>
<th>1.073</th>
<th>1.533</th>
<th>0.783</th>
<th>0.327</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replicate Prob(F)</td>
<td>0.4024</td>
<td>0.0001</td>
<td>0.3683</td>
<td>0.2166</td>
<td>0.5085</td>
<td>0.8059</td>
</tr>
</tbody>
</table>

### Treatment F

| Treatment F | 90.465 | 1782.460 | 1.132 | 17.865 | 9.227 | 337.042 |

### Treatment Prob(F)

| Treatment Prob(F) | 0.0001 | 0.0001 | 0.3492 | 0.0001 | 0.0001 | 0.0001 |
## Ignite: Benefit of Soil-Applied Herbicides

<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Pest Code</th>
<th>Pest Scientific Name</th>
<th>Pest Name</th>
<th>Crop Code</th>
<th>Crop Scientific Name</th>
<th>Rating Date</th>
<th>Crop Name</th>
<th>Rating Type</th>
<th>Number of Subsamples</th>
<th>Days After First/Last Applic.</th>
<th>Trt-Eval Interval</th>
<th>Plant-Eval Interval</th>
<th>Days After Emergence</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Abutilon theophras&gt;</td>
<td>Velvetleaf</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>%</td>
<td>1 1 1 1</td>
<td>41 13 13 13</td>
<td>13 DA-B</td>
<td>42 DP-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ambrosia artem&gt;</td>
<td>Common ragweed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td>13 DA-B</td>
<td>13 DA-B</td>
<td>34 DE-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Amaranthus ret&gt;</td>
<td>Redroot pigweed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td>13 DA-B</td>
<td>13 DA-B</td>
<td>34 DE-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chenopodium album&gt;</td>
<td>Common lambsqu&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td>4 DA-C</td>
<td>4 DA-C</td>
<td>34 DE-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Glycine max</td>
<td>Soybean</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td>13 DA-B</td>
<td>13 DA-B</td>
<td>34 DE-</td>
</tr>
</tbody>
</table>

### Treatment and Application

<table>
<thead>
<tr>
<th>No. Name</th>
<th>Treatment</th>
<th>Rate Code</th>
<th>Rate Unit</th>
<th>Code</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nontreated</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Prefix</td>
<td></td>
<td></td>
<td></td>
<td>83</td>
<td>98</td>
<td>99</td>
<td>92</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>Ignite 280</td>
<td></td>
<td></td>
<td></td>
<td>99</td>
<td>100</td>
<td>99</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>Ignite 280</td>
<td></td>
<td></td>
<td></td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>Ignite 280</td>
<td></td>
<td></td>
<td></td>
<td>97</td>
<td>100</td>
<td>99</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>Ignite 280</td>
<td></td>
<td></td>
<td></td>
<td>99</td>
<td>100</td>
<td>99</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>Ignite 280</td>
<td></td>
<td></td>
<td></td>
<td>97</td>
<td>100</td>
<td>99</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>Ignite 280</td>
<td></td>
<td></td>
<td></td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>Ignite 280</td>
<td></td>
<td></td>
<td></td>
<td>96</td>
<td>100</td>
<td>99</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>Ignite 280</td>
<td></td>
<td></td>
<td></td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>11</td>
<td>Ignite 280</td>
<td></td>
<td></td>
<td></td>
<td>98</td>
<td>100</td>
<td>99</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>12</td>
<td>Nontreated</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>Authority Broadleaf Ignite 280</td>
<td>4 oz/a</td>
<td>A</td>
<td></td>
<td>94</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>14</td>
<td>Authority First Ignite 280</td>
<td>4 oz/a</td>
<td>A</td>
<td></td>
<td>96</td>
<td>100</td>
<td>99</td>
<td>98</td>
<td>0</td>
</tr>
<tr>
<td>15</td>
<td>Authority Assist Ignite 280</td>
<td>6 fl oz/a</td>
<td>A</td>
<td></td>
<td>96</td>
<td>99</td>
<td>100</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>16</td>
<td>Valor SX</td>
<td>2 oz/a</td>
<td>A</td>
<td></td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>98</td>
<td>0</td>
</tr>
</tbody>
</table>
## Ignite: Benefit of Soil-Applied Herbicides

### Trial Information
- **Trial ID:** 10ARLSB03
- **Location:** Arlington
- **Study Director:** C. M. Boerboom
- **InVESTigator:** C. M. Boerboom
- **Sponsor:**

### Pest Information
- **Pest Type:** Weed
- **Pest Code:** ABUTH, AMBEL, AMARE, CHEAL
- **Pest Name:** Velvetleaf, Common ragweed, Redroot pigweed, Common lambsquarters
- **Crop Code:** GLXMA, BSOY, PHYNEC
- **Crop Name:** Soybean
- **Rating Date:** Jul-6-2010, Jul-6-2010, Jul-6-2010, Jul-6-2010, Jul-16-2010
- **Rating Type:** control, control, control, control, PHYNEC
- **Rating Unit:** %, %, %, %,%
- **Number of Subsamples:** 1, 1, 1, 1, 1
- **Days After First/Last Applic.:** 41 DA, 13, 41 DA, 13, 41 DA, 13, 41 DA, 13, 51 DA, 4
- **Trt-Eval Interval:** 13 DA-B, 13 DA-B, 13 DA-B, 13 DA-B, 4 DA-C
- **Plant-Eval Interval:** 42 DP-1, 42 DP-1, 42 DP-1, 42 DP-1, 52 DP-1
- **Days After Emergence:** 34 DE, 34 DE, 34 DE, 34 DE, 52 DP

### Treatment Information
<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Name</th>
<th>Rate</th>
<th>Unit</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>Enlite</td>
<td>0.08 oz ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>chlorimuron ethyl</td>
<td>96 bcd</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>thifensulfuron</td>
<td>0.25 oz ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>valor SX</td>
<td>1 oz/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Sharpen</td>
<td>0.25 oz ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Op-Till</td>
<td>0.2 oz/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
</tr>
</tbody>
</table>

### LSD (P=.10)
- 3.7
- 1.0
- 1.1
- 2.4
- 0.0

### Standard Deviation
- 3.1
- 1.0
- 1.2
- 2.0
- 0.0

### Bartlett’s X2
- 24.998
- 1.92
- 2.168
- 23.781
- 0.0

### P(Bartlett’s X2)
- 0.015*
- 0.166
- 0.95
- 0.001*
- 1

### Treatment Prob(F)
- 0.0001
- 0.0001
- 0.0001
- 0.0001
- 1.0000
# Ignite: Benifit of Soil-Applied Herbicides

**University of Wisconsin-Madison**

**Trial ID:** 10ARLSB03  
**Location:** Arlington  
**Project ID:** Investigator: C. M. Boerboom

## Table of Values

<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Pest Scientific Name</th>
<th>Crop Code</th>
<th>Crop Scientific Name</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Number of Subsamples</th>
<th>Days After First/Last Applic.</th>
<th>Trt-Eval Interval</th>
<th>Plant-Eval Interval</th>
<th>Days After Emergence</th>
<th>Eval Interval</th>
<th>Rate Unit</th>
<th>Rate Code</th>
<th>Treatment</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Nontreated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Prefix</td>
<td>Ignite 280</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Jul-23-2010</td>
<td>PHYSTU</td>
<td>%</td>
<td>18</td>
<td>0</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>0 b</td>
<td>0 a</td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Jul-23-2010</td>
<td>PHYSTU</td>
<td>%</td>
<td>19</td>
<td>0</td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>0 b</td>
<td>0 a</td>
</tr>
<tr>
<td>3 Ignite 280</td>
<td>Ignite 280</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Jul-23-2010</td>
<td>PHYSTU</td>
<td>%</td>
<td>20</td>
<td>0</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>0 b</td>
<td>0 a</td>
</tr>
<tr>
<td>4 Ignite 280</td>
<td>Ignite 280</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Jul-23-2010</td>
<td>PHYSTU</td>
<td>%</td>
<td>21</td>
<td>0</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>0 b</td>
<td>0 a</td>
</tr>
<tr>
<td>5 Ignite 280</td>
<td>Ignite 280</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Jul-23-2010</td>
<td>PHYSTU</td>
<td>%</td>
<td>22</td>
<td>0</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>0 b</td>
<td>0 a</td>
</tr>
<tr>
<td>6 Ignite 280</td>
<td>Ignite 280</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Jul-23-2010</td>
<td>PHYSTU</td>
<td>%</td>
<td>23</td>
<td>0</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>0 b</td>
<td>0 a</td>
</tr>
<tr>
<td>7 Ignite 280</td>
<td>Ignite 280</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Jul-23-2010</td>
<td>PHYSTU</td>
<td>%</td>
<td>24</td>
<td>0</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>0 b</td>
<td>0 a</td>
</tr>
<tr>
<td>8 Ignite 280</td>
<td>Ignite 280</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Jul-23-2010</td>
<td>PHYSTU</td>
<td>%</td>
<td>25</td>
<td>0</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>0 b</td>
<td>0 a</td>
</tr>
<tr>
<td>9 Ignite 280</td>
<td>Ignite 280</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Jul-23-2010</td>
<td>PHYSTU</td>
<td>%</td>
<td>26</td>
<td>0</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td>0 b</td>
<td>0 a</td>
</tr>
<tr>
<td>10 Ignite 280</td>
<td>Ignite 280</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Jul-23-2010</td>
<td>PHYSTU</td>
<td>%</td>
<td>27</td>
<td>0</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td>32</td>
<td>0 b</td>
<td>0 a</td>
</tr>
<tr>
<td>11 Ignite 280</td>
<td>Ignite 280</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Jul-23-2010</td>
<td>PHYSTU</td>
<td>%</td>
<td>28</td>
<td>0</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td>32</td>
<td>33</td>
<td>0 b</td>
<td>0 a</td>
</tr>
<tr>
<td>12 Nontreated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>%</td>
<td>29</td>
<td>0</td>
<td>30</td>
<td>31</td>
<td>32</td>
<td>33</td>
<td>34</td>
<td>0 b</td>
<td>0 a</td>
</tr>
<tr>
<td>13 Authority Broadleaf</td>
<td>Authority Broadleaf</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Jul-23-2010</td>
<td>PHYSTU</td>
<td>%</td>
<td>30</td>
<td>0</td>
<td>31</td>
<td>32</td>
<td>33</td>
<td>34</td>
<td>35</td>
<td>0 b</td>
<td>0 a</td>
</tr>
<tr>
<td>14 Authority First</td>
<td>Authority First</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Jul-23-2010</td>
<td>PHYSTU</td>
<td>%</td>
<td>31</td>
<td>0</td>
<td>32</td>
<td>33</td>
<td>34</td>
<td>35</td>
<td>36</td>
<td>0 b</td>
<td>0 a</td>
</tr>
<tr>
<td>15 Authority Assist</td>
<td>Authority Assist</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Jul-23-2010</td>
<td>PHYSTU</td>
<td>%</td>
<td>32</td>
<td>0</td>
<td>33</td>
<td>34</td>
<td>35</td>
<td>36</td>
<td>37</td>
<td>0 b</td>
<td>0 a</td>
</tr>
<tr>
<td>16 Valor SX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>%</td>
<td>33</td>
<td>0</td>
<td>34</td>
<td>35</td>
<td>36</td>
<td>37</td>
<td>38</td>
<td>0 b</td>
<td>0 a</td>
</tr>
<tr>
<td>Product</td>
<td>Rate</td>
<td>Concentration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>--------</td>
<td>---------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Ignite: Benefit of Soil-Applied Herbicides

<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Pest Code</th>
<th>Pest Scientific Name</th>
<th>Crop Code</th>
<th>BBCH Scale</th>
<th>Crop Scientific Name</th>
<th>Crop Name</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Rating Unit</th>
<th>Number of Subsamples</th>
<th>Days After First/Last Applic.</th>
<th>Plant-Eval Interval</th>
<th>Days After Emergence</th>
</tr>
</thead>
<tbody>
<tr>
<td>W Weed SETFA</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Soybean</td>
<td>Jul-16-2010</td>
<td>PHYSTU</td>
<td>control</td>
<td>%</td>
<td>1</td>
<td>51 4 58 11 58 11 58 11 58 11 58 11</td>
<td>44 DE</td>
<td>52 DP-1</td>
<td>44 DE</td>
<td>17 Enlite</td>
</tr>
<tr>
<td>W Weed AbUTH</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Soybean</td>
<td>Jul-23-2010</td>
<td>PHYSTU</td>
<td>control</td>
<td>%</td>
<td>1</td>
<td>11 DA-C 11 DA-C 11 DA-C 11 DA-C 11 DA-C</td>
<td>51 DE</td>
<td>59 DP-1</td>
<td>51 DE</td>
<td>18 Sharpen</td>
</tr>
<tr>
<td>W Weed AMBEL</td>
<td>GLXMA</td>
<td>Glycine max</td>
<td>Soybean</td>
<td>Jul-23-2010</td>
<td>PHYSTU</td>
<td>control</td>
<td>%</td>
<td>1</td>
<td>1 1 1 1</td>
<td>51 DE</td>
<td>59 DP-1</td>
<td>51 DE</td>
<td>19 Op-Till</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trt</th>
<th>Treatment</th>
<th>Rate</th>
<th>Appl Code</th>
<th>LSD (P=.10)</th>
<th>Standard Deviation</th>
<th>CV</th>
<th>Bartlett's X2</th>
<th>P(Bartlett's X2)</th>
<th>Replicate F</th>
<th>Replicate Prob(F)</th>
<th>Treatment F</th>
<th>Treatment Prob(F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.8</td>
<td>0.0</td>
<td>0.0</td>
<td>2.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>1397.230</td>
<td>0.0000</td>
<td>0.0000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.7</td>
<td>0.0</td>
<td>0.0</td>
<td>1.7</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>1397.230</td>
<td>0.0000</td>
<td>0.0000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>347.09</td>
<td>0.0</td>
<td>0.0</td>
<td>1.89</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>1397.230</td>
<td>0.0000</td>
<td>0.0000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>13.316</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>1397.230</td>
<td>0.0000</td>
<td>0.0000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>.</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td>.</td>
<td>1397.230</td>
<td>0.0000</td>
<td>0.0000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>1.117</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>1397.230</td>
<td>0.0000</td>
<td>0.0000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.4000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>1397.230</td>
<td>0.0000</td>
<td>0.0000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.308</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>1397.230</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>1397.230</td>
<td>0.0000</td>
<td>0.0000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.0001</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>1397.230</td>
<td>0.0000</td>
<td>0.0000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pest Type</td>
<td>Pest Code</td>
<td>Pest Scientific Name</td>
<td>Crop Code</td>
<td>Crop Scientific Name</td>
<td>Rating Date</td>
<td>Rating Type</td>
<td>Rating Unit</td>
<td>Eval Interval</td>
<td>Protocoll ID</td>
<td>Sponsor</td>
<td>Rate</td>
<td>Unit</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------</td>
<td>----------------------</td>
<td>-----------</td>
<td>---------------------</td>
<td>-------------</td>
<td>------------</td>
<td>------------</td>
<td>--------------</td>
<td>-------------</td>
<td>---------</td>
<td>-------</td>
<td>------</td>
</tr>
<tr>
<td>W Weed-AMARE</td>
<td>W Weed-CHEAL</td>
<td>W Weed-SETFA</td>
<td>W Weed-ABUTH</td>
<td>W Weed-AMBEL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amaranthus retroflexus</td>
<td>Chenopodium album</td>
<td>Setaria faberi</td>
<td>Abutilon theophrasti</td>
<td>Amaranthus hybridus</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Redroot pigweed</td>
<td>Giant foxtail</td>
<td>Velvetleaf</td>
<td>Giant foxtail</td>
<td>Common lambsquarters</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common lambsquarters</td>
<td>Giant foxtail</td>
<td>Common lambsquarters</td>
<td>Giant foxtail</td>
<td>Common lambsquarters</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control</td>
<td>Control</td>
<td>Control</td>
<td>Control</td>
<td>Control</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>11</td>
<td>11</td>
<td>11</td>
<td>49</td>
<td>49</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 DA-C</td>
<td>11 DA-C</td>
<td>49 DA-C</td>
<td>49 DA-C</td>
<td>49 DA-C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>59 DP-1</td>
<td>59 DP-1</td>
<td>97 DP-1</td>
<td>97 DP-1</td>
<td>97 DP-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>51 DE-</td>
<td>51 DE-</td>
<td>89 DE-</td>
<td>89 DE-</td>
<td>89 DE-</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trt No.</td>
<td>Treatment</td>
<td>Rate</td>
<td>Unit</td>
<td>Code</td>
<td>Rate</td>
<td>Unit</td>
<td>Code</td>
<td>Rate</td>
<td>Unit</td>
<td>Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>-----------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Nontreated</td>
<td>0 b</td>
<td>0 b</td>
<td>0 f</td>
<td>0 b</td>
<td>0 b</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Ignite 280</td>
<td>2 pt/a</td>
<td>A</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>8.5 lb/100 gal</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>8.5 lb/100 gal</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>1.33 pt/a</td>
<td>B</td>
<td>8.5 lb/100 gal</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>8.5 lb/100 gal</td>
<td>B</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>4 fl oz/a</td>
<td>B</td>
<td>8.5 lb/100 gal</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>16 fl oz/a</td>
<td>B</td>
<td>8.5 lb/100 gal</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>0.6 oz/a</td>
<td>B</td>
<td>8.5 lb/100 gal</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>1.29 pt/a</td>
<td>B</td>
<td>8.5 lb/100 gal</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Nontreated</td>
<td>0 b</td>
<td>0 b</td>
<td>0 f</td>
<td>0 b</td>
<td>0 b</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Authority Broadleaf</td>
<td>4 oz/a</td>
<td>A</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Authority First</td>
<td>4 oz/a</td>
<td>A</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Authority Assist</td>
<td>6 fl oz/a</td>
<td>A</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Valor SX</td>
<td>2 oz/a</td>
<td>A</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product</td>
<td>Rate</td>
<td>Gallons</td>
<td>Temperature</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>------</td>
<td>---------</td>
<td>-------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## University of Wisconsin-Madison
### Ignite: Benifit of Soil-Applied Herbicides

### Trial ID: 10ARLSB03  Protocol ID: 10ARLSB03
**Location:** Arlington  **Study Director:** C. M. Boerboom  
**Project ID:**  
**Investigator:** C. M. Boerboom

### Pest Type

<table>
<thead>
<tr>
<th>Pest Code</th>
<th>Pest Scientific Name</th>
<th>Pest Name</th>
<th>Crop Code</th>
<th>BBCH Scale</th>
<th>Crop Scientific Name</th>
<th>Crop Name</th>
<th>Rating Date</th>
<th>Rating Type</th>
<th>Rating Unit</th>
<th>Number of Subsamples</th>
<th>Days After First/Last Applic.</th>
<th>Trt-Eval Interval</th>
<th>Plant-Eval Interval</th>
<th>Days After Emergence</th>
</tr>
</thead>
<tbody>
<tr>
<td>W Weed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMARE</td>
<td>Amaranthus retroflexus</td>
<td>Redroot pigweed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEAL</td>
<td>Chenopodium album</td>
<td>Common lambsquarters</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SETFA</td>
<td>Setaria faberii</td>
<td>Giant foxtail</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ABUTH</td>
<td>Abutilon theophrastum</td>
<td>Velvetleaf</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMBEL</td>
<td>Ambrosia artemisioides</td>
<td>Common ragweed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Treatment Names and Rates

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Name</th>
<th>Rate Code</th>
<th>Rate</th>
<th>Appl Code</th>
<th>Unit</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>Enlite</td>
<td></td>
<td>100</td>
<td>a</td>
<td>0.08 oz ai/a</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>thifensulfuron</td>
<td></td>
<td>0.25</td>
<td>oz ai/a</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>valor SX</td>
<td></td>
<td>1</td>
<td>oz</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td></td>
<td>22</td>
<td>fl oz/a</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td></td>
<td>8.5</td>
<td>lb/100 gal</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Sharpen</td>
<td></td>
<td>100</td>
<td>a</td>
<td>1 oz ai/a</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td></td>
<td>22</td>
<td>fl oz/a</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td></td>
<td>8.5</td>
<td>lb/100 gal</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Op-Till</td>
<td></td>
<td>100</td>
<td>a</td>
<td>2 oz ai/a</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td></td>
<td>22</td>
<td>fl oz/a</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td></td>
<td>8.5</td>
<td>lb/100 gal</td>
<td>C</td>
<td></td>
</tr>
</tbody>
</table>

### LSD (P=.10)

<table>
<thead>
<tr>
<th></th>
<th>0.0</th>
<th>0.0</th>
<th>1.9</th>
<th>0.0</th>
<th>0.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Deviation</td>
<td>0.0</td>
<td>0.0</td>
<td>1.6</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>CV</td>
<td>0.0</td>
<td>0.0</td>
<td>1.83</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Bartlett's X2</td>
<td>0.0</td>
<td>0.0</td>
<td>7.979</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>P(Bartlett's X2)</td>
<td>0.631</td>
<td>0.631</td>
<td>0.631</td>
<td>0.631</td>
<td>0.631</td>
</tr>
<tr>
<td>Replicate F</td>
<td>0.000</td>
<td>0.000</td>
<td>0.517</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>Replicate Prob(F)</td>
<td>1.0000</td>
<td>1.0000</td>
<td>0.6725</td>
<td>1.0000</td>
<td>1.0000</td>
</tr>
<tr>
<td>Treatment F</td>
<td>0.0000</td>
<td>0.0000</td>
<td>1485.860</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>Treatment Prob(F)</td>
<td>1.0000</td>
<td>1.0000</td>
<td>0.0001</td>
<td>1.0000</td>
<td>1.0000</td>
</tr>
</tbody>
</table>
## Ignite: Benifit of Soil-Applied Herbicides

### Trial Information
- **Trial ID:** 10ARLSB03
- **Protocol ID:** 10ARLSB03
- **Location:** Arlington
- **Study Director:** C. M. Boerboom
- **Investigator:** C. M. Boerboom
- **Sponsor:**
- **Contact:**

### Pest Information
- **Pest Type:** Weed
- **Pest Code:** AMARE, CHEAL
- **Pest Scientific Name:** Amaranthus retroflexus, Chenopodium album
- **Pest Name:** Redroot pigweed, Common lambsquarters
- **Crop Code:**
- **BBCH Scale:**
- **Crop Scientific Name:**
- **Crop Name:**
- **Rating Date:** Aug-30-2010, Aug-30-2010
- **Rating Type:** control, control
- **Rating Unit:** %, %
- **Number of Subsamples:** 1, 1
- **Days After First/Last Applic.:** 96, 49, 96, 49
- **Trt-Eval Interval:** 49 DA, 49 DA
- **Plant-Eval Interval:** 97 DP, 97 DP

### Treatment Table

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment</th>
<th>Rate Code</th>
<th>Rate Unit</th>
<th>Appl Code</th>
<th>Rate</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nontreated</td>
<td>2 pt/a</td>
<td>A</td>
<td>0 c</td>
<td>100</td>
<td>a</td>
</tr>
<tr>
<td>2</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>0 c</td>
<td>99</td>
<td>ab</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>99 b</td>
<td>99</td>
<td>ab</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100gal</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>100</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>Prefix</td>
<td>2 pt/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100gal</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>99</td>
<td>b</td>
</tr>
<tr>
<td></td>
<td>Dual II Magnum</td>
<td>1.33 pt/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100gal</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>100</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100gal</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>99</td>
<td>ab</td>
</tr>
<tr>
<td></td>
<td>MON 63410</td>
<td>3 pt/a</td>
<td>B</td>
<td></td>
<td>100</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100gal</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>99</td>
<td>ab</td>
</tr>
<tr>
<td></td>
<td>Pursuit</td>
<td>4 fl oz/a</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100gal</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>99</td>
<td>ab</td>
</tr>
<tr>
<td></td>
<td>Outlook</td>
<td>16 fl oz/a</td>
<td>B</td>
<td></td>
<td>100</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100gal</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>100</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>Fixstrate</td>
<td>0.6 oz/a</td>
<td>B</td>
<td></td>
<td>100</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100gal</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>B</td>
<td>100 a</td>
<td>100</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>Harness</td>
<td>1.29 pt/a</td>
<td>B</td>
<td></td>
<td>100</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100gal</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Nontreated</td>
<td>0 c</td>
<td>0 c</td>
<td>0 c</td>
<td>0 c</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Authority Broadleaf</td>
<td>4 oz/a</td>
<td>A</td>
<td></td>
<td>100</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>100 a</td>
<td>100</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Authority First</td>
<td>4 oz/a</td>
<td>A</td>
<td></td>
<td>100</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>100 a</td>
<td>100</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Authority Assist</td>
<td>6 fl oz/a</td>
<td>A</td>
<td></td>
<td>100</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td>100 a</td>
<td>100</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Valor SX</td>
<td>2 oz/a</td>
<td>A</td>
<td>100 a</td>
<td>100</td>
<td>a</td>
</tr>
<tr>
<td>Product</td>
<td>Rate</td>
<td>Concentration</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>-------</td>
<td>---------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Ignite: Benifit of Soil-Applied Herbicides

**Trial ID:** 10ARLSB03  
**Protocol ID:** 10ARLSB03  
**Location:** Arlington  
**Study Director:**  
**Project ID:**  
**Investigator:** C. M. Boerboom  
**Sponsor:**  
**Contact:**

<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Pest Code</th>
<th>W Weed</th>
<th>W Weed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crop Code</td>
<td>BBCH Scale</td>
<td>Crop Scientific Name</td>
<td>Crop Name</td>
</tr>
<tr>
<td>Rating Date</td>
<td>Aug-30-2010</td>
<td>Aug-30-2010</td>
<td></td>
</tr>
<tr>
<td>Rating Type</td>
<td>control</td>
<td>control</td>
<td></td>
</tr>
<tr>
<td>Rating Unit</td>
<td>%</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>Number of Subsamples</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Days After First/Last Applic.</td>
<td>96 49</td>
<td>96 49</td>
<td></td>
</tr>
<tr>
<td>Trt-Eval Interval</td>
<td>49 DA-C</td>
<td>49 DA-C</td>
<td></td>
</tr>
<tr>
<td>Plant-Eval Interval</td>
<td>97 DP-1</td>
<td>97 DP-1</td>
<td></td>
</tr>
<tr>
<td>Days After Emergence</td>
<td>89 DE-</td>
<td>89 DE-</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment</th>
<th>Rate</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>17 Enlite</td>
<td>chlorimuron ethyl</td>
<td>0.08 oz ai/a</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>thifensulfuron</td>
<td>0.25 oz ai/a</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>valor SX</td>
<td>1 oz/a</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
</tr>
<tr>
<td>18 Sharpen</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
</tr>
<tr>
<td>19 Op-Till</td>
<td>Ignite 280</td>
<td>22 fl oz/a</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>AMS</td>
<td>8.5 lb/100 gal</td>
<td>C</td>
</tr>
</tbody>
</table>

| LSD (P=.10) | 0.4 | 1.2 |
| Standard Deviation | 0.3 | 1.0 |
| CV | 0.38 | 1.15 |
| Bartlett's X2 | 0.0 | 1.623 |
| P(Bartlett's X2) | . | 0.951 |
| Replicate F | 1.000 | 0.920 |
| Replicate Prob(F) | 0.4000 | 0.4374 |
| Treatment F | 33551.621 | 3784.434 |
| Treatment Prob(F) | 0.0001 | 0.0001 |
University of Wisconsin-Madison

Ignite: Benefit of Soil-Applied Herbicides

<table>
<thead>
<tr>
<th>Pest Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>W, Weed, G-BYW7, G-WedStg</td>
<td>Weed or volunteer crop</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pest Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SETFA</td>
<td>Setaria faberi, US</td>
</tr>
<tr>
<td>CHEAL</td>
<td>Chenopodium album, US</td>
</tr>
<tr>
<td>ABUTH</td>
<td>Abutilion theophrasti, US</td>
</tr>
<tr>
<td>AMARE</td>
<td>Amaranthus retroflexus, US</td>
</tr>
<tr>
<td>AMBEL</td>
<td>Ambrosia artemisiifolia, US</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Crop Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLXMA</td>
<td>Glycine max, US</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rating Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSTU</td>
<td>phytotoxicity - stunting</td>
</tr>
<tr>
<td>PHYNEC</td>
<td>phytotoxicity - necrosis/burn</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rating Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>percent</td>
</tr>
<tr>
<td>cm</td>
<td>centimeter</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plant-Eval Interval</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 DP-1</td>
<td>1 May-25-2010</td>
</tr>
<tr>
<td>38 DP-1</td>
<td>1 May-25-2010</td>
</tr>
<tr>
<td>42 DP-1</td>
<td>1 May-25-2010</td>
</tr>
<tr>
<td>52 DP-1</td>
<td>1 May-25-2010</td>
</tr>
<tr>
<td>59 DP-1</td>
<td>1 May-25-2010</td>
</tr>
<tr>
<td>97 DP-1</td>
<td>1 May-25-2010</td>
</tr>
</tbody>
</table>
# University of Wisconsin-Madison

## Ignite: Benefit of Soil-Applied Herbicides

### Trial Information
- **Trial ID:** 10ARLSB03
- **Protocol ID:** 10ARLSB03
- **Study Director:** T.L. Trower
- **Investigator:** C. M. Boerboom
- **Discipline:** Herbicide
- **Initiation Date:** Jun-2-2010

### General Trial Information

<table>
<thead>
<tr>
<th>Study Director</th>
<th>Title</th>
<th>Investigator</th>
</tr>
</thead>
<tbody>
<tr>
<td>T.L. Trower</td>
<td>Sr. Outreach Specialist</td>
<td>C. M. Boerboom</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Affiliation</th>
<th>Location</th>
<th>Address</th>
<th>E-mail</th>
<th>Mobile</th>
</tr>
</thead>
<tbody>
<tr>
<td>UW-Madison</td>
<td>Madison, WI</td>
<td>1575 Linden Dr.</td>
<td><a href="mailto:tltrower@wisc.edu">tltrower@wisc.edu</a></td>
<td>608-393-3173</td>
</tr>
</tbody>
</table>

### Crop Description

#### Crop 1: GLXMA Glycine max (Soybean)
- **Variety:** Cropland LT 1829
- **BBCH Scale:** BSOY
- **Planting Method:** SEEDED seeded
- **Depth, Unit:** 0.75 IN
- **Row Spacing, Unit:** 30 IN
- **Seed Bed:** SMOOTH smooth
- **Soil Moisture:** NORMAL normal
- **Emergence Date:** Jun-2-2010

### Pest Description

#### Pest 1 Type: W Code: SETFA Setaria faberi
- **Common Name:** Giant foxtail

#### Pest 2 Type: W Code: CHEAL Chenopodium album
- **Common Name:** Common lambsquarters

#### Pest 3 Type: W Code: ABUTH Abutilon theophrasti
- **Common Name:** Velvetleaf

#### Pest 4 Type: W Code: AMARE Amaranthus retroflexus
- **Common Name:** Redroot pigweed

#### Pest 5 Type: W Code: AMBEL Ambrosia artemisiifolia
- **Common Name:** Common ragweed

### Site and Design

<table>
<thead>
<tr>
<th>Plot Width, Unit:</th>
<th>10 FT</th>
<th>Site Type:</th>
<th>CROP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plot Length, Unit:</td>
<td>25 FT</td>
<td>Tillage Type:</td>
<td>CONTIL conventional-till</td>
</tr>
<tr>
<td>Plot Area, Unit:</td>
<td>250 FT²</td>
<td>Study Design:</td>
<td>RACOBL Randomized Complete Block (RCB)</td>
</tr>
<tr>
<td>Replications:</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soil Description</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Sand: 9</td>
<td>% Silt: 68</td>
<td>% Clay: 23</td>
<td></td>
</tr>
<tr>
<td>OM: 3.4</td>
<td>pH: 6.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Texture: SIL silt loam</td>
<td>Soil Name: Plano</td>
<td>Fert. Level: E excellent</td>
<td></td>
</tr>
</tbody>
</table>
**Application Description**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Application Date:</strong></td>
<td>May-26-2010</td>
<td>Jun-23-2010</td>
</tr>
<tr>
<td><strong>Time of Day:</strong></td>
<td>7:00A</td>
<td>9:30A</td>
</tr>
<tr>
<td><strong>Application Method:</strong></td>
<td>Broadcast</td>
<td>Broadcast</td>
</tr>
<tr>
<td><strong>Application Timing:</strong></td>
<td>Preemg</td>
<td>Post</td>
</tr>
<tr>
<td><strong>Applied By:</strong></td>
<td>T. Trower</td>
<td>T. Trower</td>
</tr>
<tr>
<td><strong>Air Temperature, Unit:</strong></td>
<td>73 F</td>
<td>73 F</td>
</tr>
<tr>
<td><strong>% Relative Humidity:</strong></td>
<td>81</td>
<td>93</td>
</tr>
<tr>
<td><strong>Wind Velocity, Unit:</strong></td>
<td>0 MPH</td>
<td>8 MPH</td>
</tr>
<tr>
<td><strong>Wind Direction:</strong></td>
<td>SW</td>
<td></td>
</tr>
<tr>
<td><strong>Dew Presence (Y/N):</strong></td>
<td>N no</td>
<td>N no</td>
</tr>
<tr>
<td><strong>Soil Temperature, Unit:</strong></td>
<td>68 F</td>
<td>70 F</td>
</tr>
<tr>
<td><strong>Soil Moisture:</strong></td>
<td>WET/WET</td>
<td>WET/WET</td>
</tr>
<tr>
<td><strong>% Cloud Cover:</strong></td>
<td>0</td>
<td>100</td>
</tr>
</tbody>
</table>

**Crop Stage At Each Application**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Crop 1 Code, BBCH Scale:</strong></td>
<td>GLXMA BSOY</td>
<td>GLXMA BSOY</td>
</tr>
<tr>
<td><strong>Stage Scale Used:</strong></td>
<td>BBCH</td>
<td>BBCH</td>
</tr>
<tr>
<td><strong>Stage Majority, Percent:</strong></td>
<td>Pre</td>
<td>V3</td>
</tr>
<tr>
<td><strong>Height, Unit:</strong></td>
<td>7 IN</td>
<td>18 IN</td>
</tr>
<tr>
<td><strong>Height Minimum, Maximum:</strong></td>
<td>6 IN</td>
<td>6 IN</td>
</tr>
</tbody>
</table>
## Pest Stage At Each Application

<table>
<thead>
<tr>
<th>Pest 1 Code, Type, Scale: SETFA W</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stage Minimum, Percent:</td>
<td>12</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>Stage Maximum, Percent:</td>
<td>15</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>2</td>
<td>8</td>
<td>11</td>
</tr>
<tr>
<td>Density, Unit:</td>
<td>6</td>
<td>FT²</td>
<td>2.5</td>
</tr>
<tr>
<td>Pest 2 Code, Type, Scale: CHEAL W</td>
<td>A</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td>Stage Minimum, Percent:</td>
<td>12</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Stage Maximum, Percent:</td>
<td>16</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>0</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Density, Unit:</td>
<td>1</td>
<td>FT²</td>
<td>0.5</td>
</tr>
<tr>
<td>Pest 3 Code, Type, Scale: ABUTH W</td>
<td>A</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td>Stage Minimum, Percent:</td>
<td>12</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>Stage Maximum, Percent:</td>
<td>15</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>0</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Density, Unit:</td>
<td>1</td>
<td>FT²</td>
<td>0.5</td>
</tr>
<tr>
<td>Pest 4 Code, Type, Scale: AMARE W</td>
<td>A</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td>Stage Minimum, Percent:</td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stage Maximum, Percent:</td>
<td>19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>0</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Pest 5 Code, Type, Scale: AMBEL W</td>
<td>A</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td>Height Minimum, Maximum:</td>
<td>11</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Density, Unit:</td>
<td>0.5</td>
<td>FT²</td>
<td></td>
</tr>
</tbody>
</table>

## Application Equipment

<table>
<thead>
<tr>
<th>Equipment Type: SPRBAC</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Pressure, Unit:</td>
<td>23 PSI</td>
<td>23 PSI</td>
</tr>
<tr>
<td>Nozzle Type: Flat Fan</td>
<td>Flat Fan</td>
<td>Flat Fan</td>
</tr>
<tr>
<td>Nozzle Size: XR 8003</td>
<td>XR 8003</td>
<td>XR 8003</td>
</tr>
<tr>
<td>Nozzle Spacing, Unit: 20 IN</td>
<td>20 IN</td>
<td>20 IN</td>
</tr>
<tr>
<td>% Coverage: 100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Boom ID: 20 GPA</td>
<td>20 GPA</td>
<td>20 GPA</td>
</tr>
<tr>
<td>Boom Length, Unit: 10 FT</td>
<td>10 FT</td>
<td>10 FT</td>
</tr>
<tr>
<td>Boom Height, Unit: 19 IN</td>
<td>19 IN</td>
<td>19 IN</td>
</tr>
<tr>
<td>Ground Speed, Unit: 3 MPH</td>
<td>3 MPH</td>
<td>3 MPH</td>
</tr>
<tr>
<td>Carrier: WATER</td>
<td>WATER</td>
<td>WATER</td>
</tr>
<tr>
<td>Spray Volume, Unit: 20 gal/ac</td>
<td>20 gal/ac</td>
<td>20 gal/ac</td>
</tr>
<tr>
<td>Mix Size, Unit: 2.2 liters</td>
<td>2.2 liters</td>
<td>2.2 liters</td>
</tr>
<tr>
<td>Propellant: COMCO2</td>
<td>COMCO2</td>
<td>COMCO2</td>
</tr>
</tbody>
</table>