Purdue University Weed Science

BroadAxe XC: Compare BroadAxe XC to Syngenta and Competitive Herbicide Programs in Soybean

Trial ID: 15S-CORT-NTS-15
Protocol ID: ZSOY80AD
Project ID: ZSOY80AD-2015US

Location: CORTLAND
Trial Year: 2015
Investigator: Dr. Bill Johnson
Sponsor Contact: S. Mroczkiewicz

General Trial Information

Study Director: Joey Heneghan
Title: Research Associate
Investigator: Dr. Bill Johnson
Title: Professor
Initiation Date: May-13-2015

City: CORTLAND
Country: USA United States
State/Prov: Indiana
Postal Code: 47274
Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Joey Heneghan
Title: Research Associate
Organization: Purdue University
Address: 915 W State St
City+State/Prov: West Lafayette, IN
Postal Code: 47907
Country: USA United States
Mobile No.: 317 691 4347
E-mail: jhenegh@purdue.edu

Investigator: Dr. Bill Johnson
Title: Professor
Organization: Purdue University
Address: 915 W State St
City+State/Prov: West Lafayette, IN
Postal Code: 47907
Country: USA United States
Phone No.: 765 494 4656
Mobile No.: 765 404 9801
E-mail: wgj@purdue.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: PIONEER P33T72R BBCH Scale: BSOY
Seed Shape: ROUND
Sowing Rate, Unit: 145000 S/A
Depth, Unit: 1.75 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 68 F
Soil Moisture: SLIDRY slightly dry

Pest Description

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

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT2
Treatments: 14
Replications: 4
Study Design: RACOBL Randomized Complete Block (RCB)

Maintenance

<table>
<thead>
<tr>
<th>No.</th>
<th>Date</th>
<th>Maintenance Product Name</th>
<th>Form Conc</th>
<th>Form Type</th>
<th>Rate</th>
<th>Rate Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>May-26-2015</td>
<td>Gramoxone 2</td>
<td>2</td>
<td>L</td>
<td>3.5</td>
<td>pt/a</td>
</tr>
</tbody>
</table>

Comment: Burndown prior to planting
# Application Description

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Application Date:</strong> May-28-2015</td>
<td>Jun-24-2015</td>
</tr>
<tr>
<td><strong>Appl. Start Time:</strong> 7:45AM</td>
<td>11:50AM</td>
</tr>
<tr>
<td><strong>Appl. Stop Time:</strong> 8:15 AM</td>
<td>12:15 PM</td>
</tr>
<tr>
<td><strong>Application Method:</strong> SPRAY</td>
<td>SPRAY</td>
</tr>
<tr>
<td><strong>Application Timing:</strong> A</td>
<td>B</td>
</tr>
<tr>
<td><strong>Application Placement:</strong> BROADC</td>
<td>BROADC</td>
</tr>
<tr>
<td><strong>Applied By:</strong> HENEKAN</td>
<td>DEVKOTA</td>
</tr>
<tr>
<td><strong>Air Temperature, Unit:</strong> 68 F</td>
<td>77 F</td>
</tr>
<tr>
<td><strong>% Relative Humidity:</strong> 96</td>
<td>40</td>
</tr>
<tr>
<td><strong>Wind Velocity, Unit:</strong> 0 MPH</td>
<td>2 MPH</td>
</tr>
<tr>
<td><strong>Wind Direction:</strong> N</td>
<td>NE</td>
</tr>
<tr>
<td><strong>Dew Presence (Y/N):</strong> N no</td>
<td>no</td>
</tr>
<tr>
<td><strong>Soil Temperature, Unit:</strong> 68 F</td>
<td>83 F</td>
</tr>
<tr>
<td><strong>Soil Moisture:</strong> SLIDRY</td>
<td></td>
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<tr>
<td><strong>% Cloud Cover:</strong> 90</td>
<td>30</td>
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## Crop Stage At Each Application

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
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</thead>
<tbody>
<tr>
<td><strong>Crop 1 Code, BBCH Scale:</strong> GLXMA BSOY</td>
<td>GLXMA BSOY</td>
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<tr>
<td><strong>Stage Scale Used:</strong> BBCH</td>
<td></td>
</tr>
<tr>
<td><strong>Stage Majority, Percent:</strong> V4 80</td>
<td>V4 80</td>
</tr>
<tr>
<td><strong>Stage Minimum, Percent:</strong> V3 20</td>
<td>V3 20</td>
</tr>
<tr>
<td><strong>Stage Maximum, Percent:</strong> V4 80</td>
<td>V4 80</td>
</tr>
<tr>
<td><strong>Height, Unit:</strong> 6 IN</td>
<td></td>
</tr>
<tr>
<td><strong>Height Minimum, Maximum:</strong> 4 7</td>
<td>4 7</td>
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</tbody>
</table>

## Pest Stage At Each Application

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
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</thead>
<tbody>
<tr>
<td><strong>Pest 1 Code, Type, Scale:</strong> ERICA W</td>
<td>ERICA W</td>
</tr>
<tr>
<td><strong>Height, Unit:</strong> 20 IN</td>
<td>6 IN</td>
</tr>
<tr>
<td><strong>Height Minimum, Maximum:</strong> 18 24</td>
<td>1 11</td>
</tr>
<tr>
<td><strong>Density, Unit:</strong> 4 YD2</td>
<td>30 YD2</td>
</tr>
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## Application Equipment

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
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<tbody>
<tr>
<td><strong>Appl. Equipment:</strong> CO2 BACKPACK</td>
<td>CO2 BACKPACK</td>
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<tr>
<td><strong>Operation Pressure, Unit:</strong> 18 PSI</td>
<td>18 PSI</td>
</tr>
<tr>
<td><strong>Nozzle Type:</strong> 11002XR</td>
<td>11002XR</td>
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<tr>
<td><strong>Nozzle Size:</strong> 02</td>
<td>02</td>
</tr>
<tr>
<td><strong>Nozzle Spacing, Unit:</strong> 15 IN</td>
<td>15 IN</td>
</tr>
<tr>
<td><strong>Boom Length, Unit:</strong> 10 FT</td>
<td>10 FT</td>
</tr>
<tr>
<td><strong>Boom Height, Unit:</strong> 18 IN</td>
<td>18 IN</td>
</tr>
<tr>
<td><strong>Ground Speed, Unit:</strong> 3 MPH</td>
<td>3 MPH</td>
</tr>
<tr>
<td><strong>Carrier:</strong> H20</td>
<td>H20</td>
</tr>
<tr>
<td><strong>Spray Volume, Unit:</strong> 15 GAL/AC</td>
<td>15 GAL/AC</td>
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<tr>
<td><strong>Mix Size, Unit:</strong> 1.8 liters</td>
<td>1.8 liters</td>
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<td><strong>Propellant:</strong> CO2</td>
<td>CO2</td>
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<tr>
<td>Trt No</td>
<td>Treatment</td>
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<tr>
<td>-------</td>
<td>-------------------</td>
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<tr>
<td>1</td>
<td>Untreated Check</td>
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<tr>
<td>2</td>
<td>BROADAXE</td>
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<tr>
<td></td>
<td>FLEXSTAR GT 3.5</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>N-PAK - AMS</td>
</tr>
<tr>
<td>3</td>
<td>BROADAXE</td>
</tr>
<tr>
<td></td>
<td>FLEXSTAR GT 3.5</td>
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<tr>
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</tr>
<tr>
<td></td>
<td>N-PAK - AMS</td>
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<td>4</td>
<td>BROADAXE</td>
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<tr>
<td></td>
<td>TRICOR</td>
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<td></td>
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<td></td>
<td>N-PAK - AMS</td>
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<tr>
<td>5</td>
<td>BROADAXE</td>
</tr>
<tr>
<td></td>
<td>TRICOR</td>
</tr>
<tr>
<td></td>
<td>FLEXSTAR GT 3.5</td>
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<td>N-PAK - AMS</td>
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<tr>
<td>6</td>
<td>BROADAXE</td>
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<tr>
<td></td>
<td>TRICOR</td>
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<td></td>
<td>FLEXSTAR GT 3.5</td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td>N-PAK - AMS</td>
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<tr>
<td>7</td>
<td>CLASSIC</td>
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<tr>
<td></td>
<td>BROADAXE</td>
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<td></td>
<td>FLEXSTAR GT 3.5</td>
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<td>N-PAK - AMS</td>
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<tr>
<td>8</td>
<td>CLASSIC</td>
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<tr>
<td></td>
<td>BROADAXE</td>
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<tr>
<td></td>
<td>FLEXSTAR GT 3.5</td>
</tr>
<tr>
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<td></td>
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<tr>
<td></td>
<td>N-PAK - AMS</td>
</tr>
<tr>
<td>9</td>
<td>BOUNDARY</td>
</tr>
<tr>
<td></td>
<td>FLEXSTAR GT 3.5</td>
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<td>N-PAK - AMS</td>
</tr>
<tr>
<td>10</td>
<td>VALOR XLT @ 3 OZ/A</td>
</tr>
<tr>
<td></td>
<td>VALOR</td>
</tr>
<tr>
<td></td>
<td>CLASSIC</td>
</tr>
<tr>
<td></td>
<td>FLEXSTAR GT 3.5</td>
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<td></td>
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<td></td>
<td>N-PAK - AMS</td>
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<tr>
<td>11</td>
<td>SONIC</td>
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<td></td>
<td>FLEXSTAR GT 3.5</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>N-PAK - AMS</td>
</tr>
</tbody>
</table>
### Purdue University Weed Science

**Reps:** 4  
**Plots:** 10 by 30 feet  
**Spray vol:** 15 GAL/AC  
**Mix Size:** calculated mix size 1.5642

<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment Name</th>
<th>Form Conc</th>
<th>Form Type</th>
<th>Rate Unit</th>
<th>Code Description</th>
<th>Amt Product to Measure</th>
<th>Rep 1</th>
<th>Rep 2</th>
<th>Rep 3</th>
<th>Rep 4</th>
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</thead>
<tbody>
<tr>
<td>12</td>
<td>ROUNDEL POWERMAX N-PAK - AMS</td>
<td>4.5 LBAE/GAL SL 22 fl oz/a A PRE</td>
<td>20.62 ml/mx</td>
<td>112</td>
<td>206</td>
<td>309</td>
<td>503</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ROUNDEL POWERMAX N-PAK - AMS</td>
<td>4.5 LBAE/GAL SL 22 fl oz/a B 2-3&quot; WEEDS</td>
<td>20.62 ml/mx</td>
<td>98.99 ml/mx</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>ROUNDEL POWERMAX N-PAK - AMS</td>
<td>4.5 LBAE/GAL SL 22 fl oz/a A PRE</td>
<td>20.62 ml/mx</td>
<td>101</td>
<td>304</td>
<td>406</td>
<td>407</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>KAPRE COMPLY N-PAK - AMS</td>
<td>100 % 5 % v/v A PRE</td>
<td>89.99 ml/mx</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>KAPRE COMPLY N-PAK - AMS</td>
<td>4.5 LBAE/GAL SL 22 fl oz/a B 2-3&quot; WEEDS</td>
<td>20.62 ml/mx</td>
<td>89.99 ml/mx</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>14</td>
<td>Untreated Check</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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**Product quantities required for listed treatments and applications of trials included in this table:**

<table>
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<tr>
<th>Amount</th>
<th>Unit</th>
<th>Treatment Name</th>
<th>Form Conc</th>
<th>Form Type</th>
<th>Lot Code</th>
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<tbody>
<tr>
<td>183.984</td>
<td>ml</td>
<td>BROADAXE</td>
<td>7</td>
<td>SC</td>
<td></td>
</tr>
<tr>
<td>656.249</td>
<td>ml</td>
<td>FLEXSTAR GT 3.5</td>
<td>2.82</td>
<td>L</td>
<td></td>
</tr>
<tr>
<td>224.976</td>
<td>ml</td>
<td>MSO ULTRA</td>
<td>100</td>
<td>L</td>
<td></td>
</tr>
<tr>
<td>1,012.390</td>
<td>ml</td>
<td>N-PAK - AMS</td>
<td>3.4</td>
<td>SL</td>
<td></td>
</tr>
<tr>
<td>14.604</td>
<td>g</td>
<td>TRICOR</td>
<td>75</td>
<td>DF</td>
<td></td>
</tr>
<tr>
<td>2.808</td>
<td>g</td>
<td>CLASSIC</td>
<td>25</td>
<td>WG</td>
<td></td>
</tr>
<tr>
<td>32.812</td>
<td>ml</td>
<td>BOUNDARY</td>
<td>6.5</td>
<td>EC</td>
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<tr>
<td>1.977</td>
<td>g</td>
<td>VALOR</td>
<td>51</td>
<td>WG</td>
<td></td>
</tr>
<tr>
<td>1.393</td>
<td>g</td>
<td>CLASSIC</td>
<td>25</td>
<td>DF</td>
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<tr>
<td>4.493</td>
<td>g</td>
<td>SONIC</td>
<td>70</td>
<td>WG</td>
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<tr>
<td>103.125</td>
<td>ml</td>
<td>ROUNDEL POWERMAX</td>
<td>4.5</td>
<td>SL</td>
<td></td>
</tr>
<tr>
<td>224.976</td>
<td>ml</td>
<td>KAPRE COMPLY</td>
<td>100</td>
<td>L</td>
<td></td>
</tr>
</tbody>
</table>

* 'Per area' calculations based on spray volume= 15 GAL/AC, mix size= 1.8 liters (mix size basis).
* Product amount calculations increased 25% for overage adjustment.
* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 1.8 liters.
### Purdue University Weed Science

**Trial ID:** 15S-CORT-NTS-15  
**Location:** CORTLAND  
**Protocol ID:** ZSOY80AD  
**Trial Year:** 2015  
**Investigator:** Dr. Bill Johnson  
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**Study Director:** Joey Heneghan  
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**BroadAxe XC: Compare BroadAxe XC to Syngenta and Competitive Herbicide Programs in Soybean**

**Pest Type**  
**Pest Code**  
**Pest Scientific Name**  
**Crop Code**  
**BBCH Scale**  
**Crop Scientific Name**  
**Crop Name**  
**Part Rated**  
**Rating Date**  
**Rating Type**  
**Rating Unit**  
**Crop Stage Majority**  
**Number of Subsamples**  
**Assessed By**  

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Rate</th>
<th>Rate Unit</th>
<th>Code Plot</th>
<th>W Weed</th>
<th>W Weed</th>
<th>W Weed</th>
</tr>
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<tbody>
<tr>
<td><strong>1 Untreated Check</strong></td>
<td>101</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>2 BROADAXE</strong></td>
<td>19 fl oz/a A 102</td>
<td>90.0</td>
<td>0.0</td>
<td>50.0</td>
<td>15.0</td>
<td>2.0</td>
</tr>
<tr>
<td>FLEXSTAR GT 3.5</td>
<td>3.5 pt/a B 204</td>
<td>85.0</td>
<td>0.0</td>
<td>15.0</td>
<td>15.0</td>
<td>2.0</td>
</tr>
<tr>
<td>MSO ULTRA</td>
<td>1 % v/v B 312</td>
<td>75.0</td>
<td>0.0</td>
<td>15.0</td>
<td>15.0</td>
<td>3.0</td>
</tr>
<tr>
<td>N-PAK - AMS</td>
<td>2.5 % v/v B 505</td>
<td>75.0</td>
<td>0.0</td>
<td>20.0</td>
<td>10.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Mean = 81.3</td>
<td>0.0</td>
<td>25.0</td>
<td>13.8</td>
<td>2.5</td>
<td>70.0</td>
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<tr>
<td><strong>3 BROADAXE</strong></td>
<td>25 fl oz/a A 103</td>
<td>80.0</td>
<td>0.0</td>
<td>40.0</td>
<td>15.0</td>
<td>2.0</td>
</tr>
<tr>
<td>FLEXSTAR GT 3.5</td>
<td>3.5 pt/a B 211</td>
<td>75.0</td>
<td>0.0</td>
<td>20.0</td>
<td>15.0</td>
<td>3.0</td>
</tr>
<tr>
<td>MSO ULTRA</td>
<td>1 % v/v B 305</td>
<td>75.0</td>
<td>0.0</td>
<td>15.0</td>
<td>15.0</td>
<td>3.0</td>
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<td>N-PAK - AMS</td>
<td>2.5 % v/v B 504</td>
<td>75.0</td>
<td>0.0</td>
<td>15.0</td>
<td>15.0</td>
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<tr>
<td>Mean = 76.3</td>
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<td>15.0</td>
<td>2.8</td>
<td>75.0</td>
<td></td>
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<tr>
<td><strong>4 BROADAXE</strong></td>
<td>19 fl oz/a A 104</td>
<td>85.0</td>
<td>0.0</td>
<td>30.0</td>
<td>15.0</td>
<td>2.0</td>
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<td>TRICOR</td>
<td>5 oz/a A 209</td>
<td>90.0</td>
<td>0.0</td>
<td>35.0</td>
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<td>3.0</td>
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<td>FLEXSTAR GT 3.5</td>
<td>3.5 pt/a B 404</td>
<td>90.0</td>
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<td>25.0</td>
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<tr>
<td>MSO ULTRA</td>
<td>1 % v/v B 412</td>
<td>90.0</td>
<td>0.0</td>
<td>20.0</td>
<td>15.0</td>
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<tr>
<td>N-PAK - AMS</td>
<td>2.5 % v/v B</td>
<td>75.0</td>
<td>0.0</td>
<td>15.0</td>
<td>15.0</td>
<td>3.0</td>
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<tr>
<td>Mean = 88.8</td>
<td>0.0</td>
<td>27.5</td>
<td>13.8</td>
<td>2.3</td>
<td>72.5</td>
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<tr>
<td><strong>5 BROADAXE</strong></td>
<td>25 fl oz/a A 105</td>
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<td>0.0</td>
<td>30.0</td>
<td>15.0</td>
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<tr>
<td>TRICOR</td>
<td>3 oz/a A 210</td>
<td>80.0</td>
<td>0.0</td>
<td>30.0</td>
<td>15.0</td>
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Purdue University Weed Science

ARM 2014.7 Assessment Data Summary Page 6 of 9
% = percent

Plant Eval Interval

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27 DP-1 = 1 GLXMA May-28-2015
33 DP-1 = 1 GLXMA May-28-2015
42 DP-1 = 1 GLXMA May-28-2015
55 DP-1 = 1 GLXMA May-28-2015
## Purdue University Weed Science

### BroadAxe XC: Compare BroadAxe XC to Syngenta and Competitive Herbicide Programs in Soybean

**Trial ID:** 15S-CORT-NTS-15  
**Location:** CORTLAND  
**Trial Year:** 2015  
**Investigator:** Dr. Bill Johnson  
**Study Director:** Joey Heneghan  
**Sponsor Contact:** S. Mroczkiewicz

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Means followed by same letter do not significantly differ (P=0.05, Student-Newman-Keuls)  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
Missing data estimates are included in columns; Yates=1
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| Crop Code | GLXMA | GLXMA | GLXMA | GLXMA | GLXMA |
| BBCH Scale | GLXMA | GLXMA | GLXMA | GLXMA | GLXMA |
| Crop Scientific Name | GLXMA | GLXMA | GLXMA | GLXMA | GLXMA |
| Crop Name | GLXMA | GLXMA | GLXMA | GLXMA | GLXMA |
| Part Rated | GLXMA | GLXMA | GLXMA | GLXMA | GLXMA |
| Rating Date | GLXMA | GLXMA | GLXMA | GLXMA | GLXMA |
| Rating Type | GLXMA | GLXMA | GLXMA | GLXMA | GLXMA |

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<th>Treatment F</th>
<th>Kurtosis</th>
<th>Skewness</th>
<th>P(Bartlett's $X^2$)</th>
<th>CV</th>
<th>LSD P=.05</th>
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| Pest Type | W, Weed, G-BYR7, G-WedStg = Weed or volunteer crop |
| Pest Code | ERICA, Conyza canadensis, = US |
| Crop Code | GLXMA, BSOY, Glycine max, = US |
| Part Rated | PLOT = plot |
| Rating Type | CONTROL, PHYGEN |
| Rating Unit | % = percent |
| Plant-Eval Interval | 13 DP-1 = 1 GLXMA May-28-2015 |
| Plant-Eval Interval | 27 DP-1 = 1 GLXMA May-28-2015 |
| Plant-Eval Interval | 33 DP-1 = 1 GLXMA May-28-2015 |
| Plant-Eval Interval | 42 DP-1 = 1 GLXMA May-28-2015 |
| Plant-Eval Interval | 55 DP-1 = 1 GLXMA May-28-2015 |