<table>
<thead>
<tr>
<th>Trial Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Trial Sponsor:</strong> Wisconsin Cropping Systems Weed Science</td>
</tr>
<tr>
<td><strong>Objective:</strong> Evaluate various corn herbicide programs for season long weed control in conventional corn</td>
</tr>
<tr>
<td><strong>Crop:</strong> Corn</td>
</tr>
<tr>
<td><strong>Hybrid:</strong> Dekalb DKC 54-36</td>
</tr>
<tr>
<td><strong>Weed species (pressure):</strong> woolly cupgrass (very high) giant foxtail (moderate-high)</td>
</tr>
<tr>
<td><strong>Herbicide Application(s):</strong> PRE – 5/10 POST – 6/2 (V4 corn)</td>
</tr>
</tbody>
</table>

For the full report see trial #22-ARL-CN12 in the 2022 Wisconsin Weed Science Research Report
## Herbicide Programs for Conventional Corn

### Arlington, WI 2022

<table>
<thead>
<tr>
<th>Trt #</th>
<th>Herbicide (rate acre⁻¹)</th>
<th>Annual Grasses &lt;sup&gt;c&lt;/sup&gt;</th>
<th>Yield &lt;sup&gt;b&lt;/sup&gt; bu acre⁻¹</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>5/31</td>
<td>6/15</td>
</tr>
<tr>
<td>1</td>
<td>Untreated Check</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Two-Pass – PRE (5/10) fb POST (6/2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Harness MAX (2 qt) fb</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Capreno (3 oz) + Superb HC 0.5% v/v + AMS (2 lb)</td>
<td>39</td>
<td>77</td>
</tr>
<tr>
<td>3</td>
<td>Harness MAX (2 qt) fb</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diflexx Duo (28 oz) + COC 1% v/v + AMS (2 lb)</td>
<td>50</td>
<td>78</td>
</tr>
<tr>
<td>4</td>
<td>Acuron Flexi (1.1 qt) fb</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acuron Flexi (1.1 qt) + NIS 0.25% v/v + AMS (2 lb)</td>
<td>23</td>
<td>43</td>
</tr>
<tr>
<td>5</td>
<td>Verdict (16 oz) fb</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Armezon (1 oz) + Status (5 oz) + MSO 1% v/v + AMS (2 lb)</td>
<td>29</td>
<td>89</td>
</tr>
<tr>
<td>6</td>
<td>Verdict (10 oz) + Callisto (3 oz) fb</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Armezon PRO (16 fl oz) + MSO 1% v/v + AMS (2 lb)</td>
<td>23</td>
<td>73</td>
</tr>
<tr>
<td>7</td>
<td>Surestart II (2 pt) fb</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accent Q (0.9 oz) + Status (5 oz) + COC 1% v/v + AMS (2 lb)</td>
<td>34</td>
<td>72</td>
</tr>
<tr>
<td>8</td>
<td>Harness (2 pt) + Princep 4L (1 qt) fb</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Revulin Q (4 oz) + Status (5 oz) + COC 1% v/v + AMS (2 lb)</td>
<td>51</td>
<td>87</td>
</tr>
<tr>
<td>9</td>
<td>Harness (2 pt) + Princep 4L (1 qt) fb</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Revulin Q (4 oz) + Status (5 oz) + Zidua SC (3 oz) + COC 1% v/v + AMS (2 lb)</td>
<td>49</td>
<td>82</td>
</tr>
<tr>
<td>10</td>
<td>Harness (2 pt) + Princep 4L (1 qt) fb</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Shieldex (1 oz) + Accent Q (0.9 oz) + COC 1% v/v + AMS (2 lb)</td>
<td>59</td>
<td>82</td>
</tr>
<tr>
<td>11</td>
<td>Harness (2 pt) + Princep 4L (1 qt) fb</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Laudis (3 oz) + Warrant (48 oz) + MSO 1% v/v + AMS (2 lb)</td>
<td>47</td>
<td>93</td>
</tr>
<tr>
<td>12</td>
<td>Dual II Magnum (1.67 pt) + Princep 4L (1 qt) fb</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Callisto (3 oz) + Status (5 oz) + COC 1% v/v + AMS (2 lb)</td>
<td>35</td>
<td>64</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LSD (α=0.10)</th>
<th>10</th>
<th>11</th>
<th>13</th>
<th>ns</th>
</tr>
</thead>
<tbody>
<tr>
<td>p value</td>
<td>&lt;.001</td>
<td>&lt;.001</td>
<td>&lt;.001</td>
<td>0.169</td>
</tr>
<tr>
<td></td>
<td>&lt;0.001</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<sup>a</sup>Visual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

<sup>b</sup>Yield values with the same letter are not significantly different.

<sup>c</sup>Annual grass species in the trial consisted of woolly cupgrass (predominant species) and giant foxtail. Grass ratings most accurately reflect woolly cupgrass control.
Plot pictures taken on 5/31
21 days after the PRE application
2 days before the POST application

The number in the upper right-hand corner is the average % woolly cupgrass control of 4 replications
21 days after PRE (5/31)
Untreated Check

0%
21 days after PRE (5/31)
PRE: 2 qt Harness MAX
21 days after PRE (5/31)
PRE: 1.1 qt Acuron Flexi

23%
21 days after PRE (5/31)
PRE: 16 fl oz Verdict

29%
21 days after PRE (5/31)
PRE: 10 fl oz Verdict + 3 fl oz Callisto

23%
21 days after PRE (5/31)
PRE: 2 pt SureStart II
34%
21 days after PRE (5/31)
PRE: 2 pt Harness + 1 qt Princep 4L
52%
21 days after PRE (5/31)
PRE: 1.67 pt Dual II Magnum + 1 qt Princep 4L

35%
Plot pictures taken on 6/15
36 days after the PRE application
13 days after the POST application

The number in the upper right-hand corner is the average % woolly cupgrass control of 4 replications
36 days after PRE (6/15)
Untreated Check
13 days after POST (6/15)
PRE: 2 qt Harness MAX fb
POST: 3 fl oz Capreno + 0.5% Superb HC + 2 lb AMS
13 days after POST (6/15)
PRE: 2 qt Harness MAX fb
POST: 28 fl oz Diflexx Duo + 1% COC + 2 lb AMS

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13 days after POST (6/15)
PRE: 1.1 qt Acuron Flexi
POST: 1.1 qt Acuron Flexi + 0.25% NIS + 2 lb AMS

43%
13 days after POST (6/15)
PRE: 16 fl oz Verdict
POST: 1 fl oz Armezon + 5 oz Status + 1% MSO + 2 lb AMS
89%
13 days after POST (6/15)
PRE: 10 fl oz Verdict + 3 fl oz Callisto
POST: 16 fl oz Armezon PRO + 1% MSO + 2 lb AMS

73%
13 days after POST (6/15)
PRE: 2 pt SureStart II
POST: 0.9 oz Accent Q + 5 oz Status + 1% COC + 2 lb AMS

72%
13 days after POST (6/15)
PRE: 2 pt Harness + 1 qt Princep 4L
POST: 4 oz Revulin Q + 5 oz Status + 1% COC + 2 lb AMS
13 days after POST (6/15)
PRE: 2 pt Harness + 1 qt Princep 4L
POST: 4 oz Revulin Q + 5 oz Status + 3 fl oz Zidua SC + 1% COC + 2 lb AMS

82%
13 days after POST (6/15)
PRE: 2 pt Harness + 1 qt Princep 4L
POST: 1 fl oz Shieldex + 0.9 oz Accent Q + 1% COC + 2 lb AMS
13 days after POST (6/15)
PRE: 2 pt Harness + 1 qt Princep 4L
POST: 3 fl oz Laudis + 48 fl oz Warrant+ 1% MSO + 2 lb AMS

93%
13 days after POST (6/15)
PRE: 1.67 pt Dual II Magnum + 1 qt Princep 4L
POST: 3 fl oz Callisto + 5 oz Status + 1% COC + 2 lb AMS

64%
Plot pictures taken on 6/30
51 days after the PRE application
28 days after the POST application

The number in the upper right-hand corner is the average % woolly cupgrass control of 4 replications
28 days after POST (6/30)
PRE: 2 qt Harness MAX fb
POST: 3 fl oz Capreno + 0.5% Superb HC + 2 lb AMS
28 days after POST (6/30)
PRE: 2 qt Harness MAX fb
POST: 28 fl oz Diflexx Duo + 1% COC + 2 lb AMS
28 days after POST (6/30)
PRE: 1.1 qt Acuron Flexi
POST: 1.1 qt Acuron Flexi + 0.25% NIS + 2 lb AMS
28 days after POST (6/30)
PRE: 16 fl oz Verdict
POST: 1 fl oz Armezon + 5 oz Status + 1% MSO + 2 lb AMS

83%
28 days after POST (6/30)
PRE: 10 fl oz Verdict + 3 fl oz Callisto
POST: 16 fl oz Armezon PRO + 1% MSO + 2 lb AMS
66%
28 days after POST (6/30)
PRE: 2 pt SureStart II
POST: 0.9 oz Accent Q + 5 oz Status + 1% COC + 2 lb AMS
72%
28 days after POST (6/30)
PRE: 2 pt Harness + 1 qt Princep 4L
POST: 4 oz Revulin Q + 5 oz Status + 1% COC + 2 lb AMS

78%
28 days after POST (6/30)

PRE: 2 pt Harness + 1 qt Princep 4L

POST: 4 oz Revulin Q + 5 oz Status + 3 fl oz Zidua SC + 1% COC + 2 lb AMS

77%
28 days after POST (6/30)
PRE: 2 pt Harness + 1 qt Princep 4L
POST: 1 fl oz Shieldex + 0.9 oz Accent Q + 1% COC + 2 lb AMS

79%
28 days after POST (6/30)
PRE: 2 pt Harness + 1 qt Princep 4L
POST: 3 fl oz Laudis + 48 fl oz Warrant + 1% MSO + 2 lb AMS
28 days after POST (6/30)
PRE: 1.67 pt Dual II Magnum + 1 qt Princep 4L
POST: 3 fl oz Callisto + 5 oz Status + 1% COC + 2 lb AMS

57%