Table 1. Weed management in corn with preemergence and postemergence applied herbicides.

<table>
<thead>
<tr>
<th>Treatment†</th>
<th>Rate</th>
<th>Appl time</th>
<th>Corn stand³</th>
<th>Injury 6/10</th>
<th>Setfa 6/10</th>
<th>Abuth 6/10</th>
<th>Amata 6/10</th>
<th>Cheal 6/10</th>
<th>Polpy 6/10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Untreated</td>
<td>-</td>
<td>-</td>
<td>33</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Outlook +</td>
<td>21.0 fl oz +</td>
<td>PRE +</td>
<td>31</td>
<td>99</td>
<td>35</td>
<td>98</td>
<td>82</td>
<td>87</td>
<td></td>
</tr>
<tr>
<td>(Marksmen)</td>
<td>(3.5 pt)</td>
<td>(EPOST)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>G-Max Lite+</td>
<td>3.5 pt +</td>
<td>PRE +</td>
<td>32</td>
<td>99</td>
<td>58</td>
<td>99</td>
<td>98</td>
<td>98</td>
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</tr>
<tr>
<td>(Distinct + NIS + AMS)</td>
<td>4.0 oz wt + 0.25% + 5.0 lb/100 gal</td>
<td>(MPOST)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Outlook +</td>
<td>10.0 fl oz +</td>
<td>PRE +</td>
<td>34</td>
<td>95</td>
<td>17</td>
<td>96</td>
<td>65</td>
<td>65</td>
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</tr>
<tr>
<td>(Distinct + Prowl H2O + NIS + AMS)</td>
<td>(4.0 oz wt + 2.5 pt + 0.25% + 5.0 lb/100 gal)</td>
<td>(MPOST)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Celebrity Plus +</td>
<td>4.67 oz wt +</td>
<td>MPOST</td>
<td>34</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
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<tr>
<td>Prowl H2O + NIS + AMS</td>
<td>2.5 pt + 5.0 lb/100 gal</td>
<td></td>
<td></td>
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<tr>
<td>Radius + Atrazine</td>
<td>25.0 fl oz + 1.0 qt</td>
<td>PRE</td>
<td>34</td>
<td>96</td>
<td>92</td>
<td>98</td>
<td>99</td>
<td>98</td>
<td></td>
</tr>
<tr>
<td>Balance Pro +</td>
<td>1.5 fl oz + 1.0% + 2.5%</td>
<td>PRE +</td>
<td>32</td>
<td>93</td>
<td>67</td>
<td>92</td>
<td>93</td>
<td>90</td>
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</tr>
<tr>
<td>(Option + Callisto + Atrazine + MSO + AMS)</td>
<td>(1.5 oz wt + 1.5 fl oz + 1.0 pt + 1.5 pt + 1.5 lb)</td>
<td>(MPOST)</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Keystone + Hornet WDG</td>
<td>2.65 qt + 3.0 oz wt</td>
<td>PRE</td>
<td>34</td>
<td>99</td>
<td>83</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td></td>
</tr>
<tr>
<td>Keystone +</td>
<td>2.65 qt + (3.0 oz wt + 0.83 lb + 1.0% + 2.5%)</td>
<td>PRE +</td>
<td>33</td>
<td>98</td>
<td>57</td>
<td>99</td>
<td>93</td>
<td>91</td>
<td></td>
</tr>
<tr>
<td>(Hornet WDG + Atrazine + COC + 28% UAN)</td>
<td></td>
<td>(MPOST)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FullTime +</td>
<td>2.25 qt + (2.0 pt + 2.5 lb)</td>
<td>PRE +</td>
<td>33</td>
<td>96</td>
<td>52</td>
<td>98</td>
<td>96</td>
<td>95</td>
<td></td>
</tr>
<tr>
<td>(Glyphomax + AMS)</td>
<td></td>
<td>(MPOST)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cinch ATZ +</td>
<td>2.5 pt + (0.75 oz wt + 2.0 fl oz + 4.44 oz wt + 1.0% + 2.0 lb)</td>
<td>PRE +</td>
<td>33</td>
<td>96</td>
<td>43</td>
<td>96</td>
<td>92</td>
<td>78</td>
<td></td>
</tr>
<tr>
<td>(Steadfast + Callisto + Atrazine + COC + AMS)</td>
<td></td>
<td>(MPOST)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steadfast + Callisto + Atrazine + COC + AMS</td>
<td>0.75 oz wt + 2.0 fl oz + 26.7 oz wt + 1.0% + 2.0 lb</td>
<td>EPOST</td>
<td>33</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Harness Xtra 5.6 SC + (Roundup WeatherMAX + AMS)</td>
<td>1.75 qt + (22.0 fl oz + 2.5 lb)</td>
<td>PRE +</td>
<td>33</td>
<td>96</td>
<td>60</td>
<td>98</td>
<td>96</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>Lexar</td>
<td>3.5 qt</td>
<td>PRE</td>
<td>33</td>
<td>99</td>
<td>98</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td></td>
</tr>
<tr>
<td>Lumax +</td>
<td>1.5 qt + (1.5 qt)</td>
<td>PRE +</td>
<td>32</td>
<td>96</td>
<td>88</td>
<td>98</td>
<td>99</td>
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</tr>
<tr>
<td>(Lumax)</td>
<td></td>
<td>(EPOST)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Bicep Lite II Magnum +</td>
<td>1.5 qt + (3.0 fl oz + 0.556 lb + 1.0% + 2.5%)</td>
<td>PRE +</td>
<td>33</td>
<td>96</td>
<td>48</td>
<td>96</td>
<td>90</td>
<td>93</td>
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</tr>
<tr>
<td>(Callisto + Atrazine + COC + 28% UAN)</td>
<td></td>
<td>(MPOST)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LSD (P=0.05) 3 0 4 16 3 9 10

†NIS = Activator 90, a nonionic surfactant from UAP - Loveland Industries; AMS = ammonium sulfate fertilizer from Agriliance, LLC; MSO = methylated seed oil plus surfactant from UAP - Loveland Industries; COC = Herbimax crop oil concentrate from UAP - Loveland Industries; 28% UAN = mixture of urea and ammonium sulfate from United Suppliers.

b Corn stand per 17’ 5” row-feet on June 10.

c % weed control = Setfa = giant foxtail, Abuth = velvetleaf, Amata = common waterhemp, Cheal = common lamb's quarters, Polpy = Pennsylvania smartweed.
Table 2. Weed management in corn with preemergence and postemergence applied herbicides.

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Rate</th>
<th>Appl time</th>
<th>Injury 6/17</th>
<th>Injury 7/1</th>
<th>Setfa 7/1</th>
<th>Abuth 7/1</th>
<th>Amata 7/1</th>
<th>Cheal 7/1</th>
<th>Polpy 7/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Untreated</td>
<td>-</td>
<td>-</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>Outlook +</td>
<td>21.0 fl oz +</td>
<td>PRE +</td>
<td>7</td>
<td>2</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>(Marksm)</td>
<td>(3.5 pt)</td>
<td>(EPOST)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>G-Max Lite +</td>
<td>3.5 pt +</td>
<td>PRE +</td>
<td>0</td>
<td>3</td>
<td>96</td>
<td>96</td>
<td>99</td>
<td>98</td>
<td>98</td>
</tr>
<tr>
<td>(Distinct + NIS +</td>
<td>4.0 oz wt + 0.25% +</td>
<td>(MPOST)</td>
<td>5.0 lb/100 gal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outlook +</td>
<td>10.0 fl oz +</td>
<td>PRE +</td>
<td>0</td>
<td>2</td>
<td>95</td>
<td>92</td>
<td>96</td>
<td>93</td>
<td>93</td>
</tr>
<tr>
<td>(Distinct + Prowl H2O +</td>
<td>4.0 oz wt + 2.5 pt +</td>
<td>(MPOST)</td>
<td>0.25% +</td>
<td>5.0 lb/100 gal</td>
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<td></td>
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<tr>
<td>Celebrity Plus +</td>
<td>4.67 oz wt +</td>
<td>PRE +</td>
<td>0</td>
<td>7</td>
<td>93</td>
<td>92</td>
<td>93</td>
<td>93</td>
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</tr>
<tr>
<td>Prowl H2O + NIS +</td>
<td>2.5 pt +</td>
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<td>0</td>
<td>5</td>
<td>95</td>
<td>88</td>
<td>93</td>
<td>96</td>
<td>96</td>
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<tr>
<td>AMS</td>
<td>5.0 lb/100 gal</td>
<td>(EPOST)</td>
<td>0</td>
<td>5</td>
<td>98</td>
<td>98</td>
<td>98</td>
<td>98</td>
<td>99</td>
</tr>
<tr>
<td>Radius + Atrazine</td>
<td>25.0 fl oz + 1.0 qt</td>
<td>PRE</td>
<td>0</td>
<td>0</td>
<td>93</td>
<td>88</td>
<td>93</td>
<td>96</td>
<td>96</td>
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<tr>
<td>Balance Pro +</td>
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<td>0</td>
<td>5</td>
<td>95</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>(Option + Callisto +</td>
<td>1.5 oz wt + 1.5 fl oz +</td>
<td>(MPOST)</td>
<td>1.0 pt + 1.5 pt +</td>
<td>1.5 lb</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Atrazine + MSO +</td>
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<td>(AMS)</td>
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<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
</tr>
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<td>AMS</td>
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<td>0</td>
<td>95</td>
<td>85</td>
<td>96</td>
<td>98</td>
<td>98</td>
</tr>
<tr>
<td>Keystone + Hornet WDG</td>
<td>2.65 qt + 3.0 oz wt</td>
<td>(AMS)</td>
<td>0</td>
<td>5</td>
<td>98</td>
<td>98</td>
<td>98</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>Keystone +</td>
<td>2.65 qt +</td>
<td>(AMS)</td>
<td>0</td>
<td>0</td>
<td>95</td>
<td>85</td>
<td>96</td>
<td>98</td>
<td>98</td>
</tr>
<tr>
<td>(Hornet WDG + Atrazine + COC + 28% UAN)</td>
<td>3.0 oz wt + 0.83 lb + 1.0% + 2.5%</td>
<td>(MPOST)</td>
<td>0</td>
<td>5</td>
<td>98</td>
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</tr>
<tr>
<td>FulTime +</td>
<td>2.25 qt +</td>
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<tr>
<td>(Glyphomax + AMS)</td>
<td>(2.0 pt + 2.5 lb)</td>
<td>(MPOST)</td>
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<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>Cinch ATZ +</td>
<td>2.5 pt +</td>
<td>(AMS)</td>
<td>0</td>
<td>7</td>
<td>99</td>
<td>99</td>
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<td>99</td>
</tr>
<tr>
<td>(Steadfast + Callisto + Atrazine + COC + AMS)</td>
<td>2.5 oz wt + 2.0 fl oz + 4.44 oz wt + 1.0 % + 2.0 lb</td>
<td>(MPOST)</td>
<td>0</td>
<td>7</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>Steadfast + Callisto + Atrazine + COC + AMS</td>
<td>2.5 oz wt + 2.0 fl oz + 26.7 oz wt + 1.0% + 2.0 lb</td>
<td>(AMS)</td>
<td>0</td>
<td>5</td>
<td>98</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>Harness Xtra 5.6 SC +</td>
<td>1.75 qt +</td>
<td>(AMS)</td>
<td>0</td>
<td>0</td>
<td>99</td>
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<tr>
<td>(Roundup WeatherMAX + AMS)</td>
<td>(22.0 fl oz + 2.5 lb)</td>
<td>(MPOST)</td>
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<td>99</td>
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<td>99</td>
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<tr>
<td>Lexar</td>
<td>3.5 qt</td>
<td>(AMS)</td>
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<td>0</td>
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<td>98</td>
<td>98</td>
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</tr>
<tr>
<td>Lumax +</td>
<td>1.5 qt +</td>
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<tr>
<td>(Lumax)</td>
<td>(1.5 qt)</td>
<td>(EPOST)</td>
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<td>7</td>
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<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>Bicep Lite II Magnum +</td>
<td>1.5 qt +</td>
<td>(AMS)</td>
<td>0</td>
<td>0</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>(Callisto + Atrazine + COC + 28% UAN)</td>
<td>(3.0 fl oz + 0.556 lb + 1.0% + 2.5%)</td>
<td>(MPOST)</td>
<td>0</td>
<td>7</td>
<td>98</td>
<td>99</td>
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<tr>
<td>LSD (P=0.05)</td>
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<td>3</td>
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<td>3</td>
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</tr>
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</table>

a NIS = Activator 90, a nonionic surfactant from UAP - Loveland Industries; AMS = ammonium sulfate fertilizer from Agrilance, LLC; MSO = methylated seed oil plus surfactant from UAP - Loveland Industries; COC = Herbimax crop oil concentrate from UAP - Loveland Industries; 28% UAN = mixture of urea and ammonium sulfate from United Suppliers.

b % weed control = Setfa = giant foxtail, Abuth = velvetleaf, Amata = common waterhemp, Cheal = common lamb's quarters, Polpy = Pennsylvania smartweed.
<table>
<thead>
<tr>
<th>Treatment†</th>
<th>Rate</th>
<th>Appl time</th>
<th>Injury</th>
<th>Setfa</th>
<th>Abuth</th>
<th>Amata</th>
<th>Cheal</th>
<th>Polpy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Untreated</td>
<td>-</td>
<td>-</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Outlook + (Marksmen)</td>
<td>21.0 fl oz + (3.5 pt)</td>
<td>PRE +</td>
<td>2</td>
<td>96</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>G-Max Lite + (Distinct + NIS +</td>
<td>3.5 pt + (4.0 oz wt + 0.25% +</td>
<td>PRE +</td>
<td>3</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>AMS)</td>
<td>5.0 lb/100 gal)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outlook + (Distinct + Prowl H2O +</td>
<td>10.0 fl oz + (4.0 oz wt + 2.5 pt +</td>
<td>PRE +</td>
<td>5</td>
<td>98</td>
<td>95</td>
<td>98</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>NIS + (AMS)</td>
<td>5.0 lb/100 gal)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Celebrity Plus + Prowl H2O + NIS +</td>
<td>4.67 oz wt + 2.5 pt + 0.25% +</td>
<td>MPOST</td>
<td>0</td>
<td>99</td>
<td>96</td>
<td>96</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>Celebrity Plus + NIS + AMS</td>
<td>5.0 lb/100 gal</td>
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<td></td>
</tr>
<tr>
<td>Radius + Atrazine</td>
<td>25.0 fl oz + 1.0 qt</td>
<td>PRE</td>
<td>0</td>
<td>90</td>
<td>88</td>
<td>92</td>
<td>95</td>
<td>96</td>
</tr>
<tr>
<td>Balance Pro + (Option + Callisto +</td>
<td>1.5 fl oz + (1.5 oz wt + 1.5 fl oz +</td>
<td>PRE +</td>
<td>0</td>
<td>96</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>Atrazine + MSO + AMS)</td>
<td>1.0 pt + 1.5 pt + 1.5 lb</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Keystone + Hornet WDG</td>
<td>2.65 qt + 3.0 oz wt</td>
<td>PRE</td>
<td>0</td>
<td>90</td>
<td>85</td>
<td>92</td>
<td>95</td>
<td>99</td>
</tr>
<tr>
<td>Keystone + (Hornet WDG + Atrazine + COC + 28% UAN)</td>
<td>2.65 qt + (3.0 oz wt + 0.83 lb + 1.0% + 2.5%)</td>
<td>PRE +</td>
<td>0</td>
<td>98</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>FulTime + (Glyphomax + AMS)</td>
<td>2.25 qt + (2.0 pt + 2.5 lb)</td>
<td>PRE +</td>
<td>0</td>
<td>95</td>
<td>98</td>
<td>98</td>
<td>96</td>
<td>99</td>
</tr>
<tr>
<td>Cinch ATZ + (Steadfast + Callisto + Atrazine + COC + AMS)</td>
<td>2.5 pt + (0.75 oz wt + 2.0 fl oz + 4.44 oz wt + 1.0% + 2.0 lb)</td>
<td>PRE +</td>
<td>0</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>Steadfast + Callisto + Atrazine + COC + AMS</td>
<td>0.75 oz wt + 2.0 fl oz + 26.7 oz wt + 1.0% + 2.0 lb</td>
<td>EPOST</td>
<td>0</td>
<td>98</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>Harness Xtra 5.6 SC + (Roundup WeatherMAX + AMS)</td>
<td>1.75 qt + (22.0 fl oz + 1.5% + 2.5 lb)</td>
<td>PRE +</td>
<td>0</td>
<td>95</td>
<td>99</td>
<td>98</td>
<td>96</td>
<td>99</td>
</tr>
<tr>
<td>Lexar</td>
<td>3.5 qt</td>
<td>PRE</td>
<td>0</td>
<td>96</td>
<td>96</td>
<td>98</td>
<td>98</td>
<td>99</td>
</tr>
<tr>
<td>Lumax + (Lumax)</td>
<td>1.5 qt + (1.5 qt)</td>
<td>PRE +</td>
<td>0</td>
<td>96</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>Bicep Lite II Magnum + (Callisto + Atrazine + COC + 28% UAN)</td>
<td>1.5 qt + (3.0 fl oz + 0.556 lb + 1.0% + 2.5%)</td>
<td>PRE +</td>
<td>2</td>
<td>98</td>
<td>99</td>
<td>99</td>
<td>99</td>
<td>99</td>
</tr>
</tbody>
</table>

LSD (P=0.05) 2 3 4 4 2 1

†NIS = Activator 90, a nonionic surfactant from UAP - Loveland Industries; AMS = ammonium sulfate fertilizer from AgriLife, LLC; MSO = methylated seed oil plus surfactant from UAP - Loveland Industries; COC = Herbimax crop oil concentrate from UAP - Loveland Industries; 28% UAN = mixture of urea and ammonium sulfate from United Suppliers.

b% weed control = Setfa = giant foxtail, Abuth = velvetleaf, Amata = common waterhemp, Cheal = common lam'b squaters, Polpy = Pennsylvania smartweed.