On-farm rescue N demonstrations

- Fully fertilized fields but producers concerned
- N applied anywhere from thigh-high to tassel
Rescue N outcomes

- Average yield response 34 bu/acre ($n = 11$)
- Yield response: bigger with more stress
  - High stress: 57 bushels (2 tests)
  - Medium stress: 41 bushels (5 tests)
  - Low stress: 14 bushels (4 tests)
- How late is too late?
  - Six tests in 2010, all applied at tassel, ave 34 bu
  - Give up by 2 weeks after tassel
Rescue N in Illinois: 37 bu
UREA Post Application at 40 lbs/Acre

- 126 bu
- 90 bu
- 135 bu
- 60 bu
- 125 bu
- 60 bu
Yield loss to N burn: is it a problem?
(average of 7 locations in Missouri, 2003-04)

150 lb N applied broadcast at corn height:

<table>
<thead>
<tr>
<th>Treatment</th>
<th>1 foot</th>
<th>2 feet</th>
<th>3 feet</th>
<th>4 feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium nitrate</td>
<td>1</td>
<td>8</td>
<td>20</td>
<td>18</td>
</tr>
<tr>
<td>28% N solution</td>
<td>9</td>
<td>14</td>
<td>33</td>
<td>61</td>
</tr>
<tr>
<td>Urea</td>
<td>0</td>
<td>0</td>
<td></td>
<td>4</td>
</tr>
</tbody>
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