Headline® Fungicide Evaluations on Oats 2008

Purpose:
To evaluate the impact of HEADLINE® fungicide on leaf disease control in oats and the impact on grain yield and test weight and straw yield.

Methods:
Headline® fungicide was applied on the oat crop at the flag leaf emerged growth stage. Two blocks were left untreated to be used as check strips. At harvest, grain yield and test weight and straw yield of the HEADLINE® treated strips compared to a non-treated strip.

Results:
Picture 1 - On-farm Headline® Fungicide Trial with Check (Untreated) Strips

Summary:
Picture 1 shows the lodging that occurred in the untreated strips as compared to the rest of the field which had the fungicide applied. Although Sherwood is a relatively new oat variety, it no longer has resistance to leaf rust. From the plot information in Table 1, the use of a leaf disease fungicide has resulted in a significant yield increase in this trial of about 21 bushels per acre in the oat yield. There was also increase in the straw yield. The cost of the fungicide plus application is about $25.00 per acre.
Table 1 – 2008 Oat Yields from the Headline® Fungicide (Treated) compared to Check (Untreated) Strips.

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Plot #</th>
<th>Moist. (%)</th>
<th>Test Wt. (lbs/bu)</th>
<th>Yield @14.0% (mt/ac)</th>
<th>Yield @14.0% (bu/ac)</th>
<th>Comm.</th>
<th>Straw (t/ac)</th>
<th>Avg. Straw (t/ac)</th>
<th>DIFF Straw (t/ac)</th>
<th>DIFF Yield @14.0% (bu/ac)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated 1</td>
<td>1</td>
<td>11.9</td>
<td>33.7</td>
<td>1.7</td>
<td>107.9</td>
<td>standing</td>
<td>1.43</td>
<td>1</td>
<td>0.14</td>
<td></td>
</tr>
<tr>
<td>Treated 3</td>
<td>3</td>
<td>11.4</td>
<td>31.3</td>
<td>1.8</td>
<td>117.2</td>
<td>standing</td>
<td>1.51</td>
<td>1.59</td>
<td>20.73</td>
<td></td>
</tr>
<tr>
<td>Treated 5</td>
<td>5</td>
<td>11.4</td>
<td>33.7</td>
<td>1.8</td>
<td>114.6</td>
<td>standing</td>
<td>1.59</td>
<td>1.51</td>
<td>0.14</td>
<td></td>
</tr>
<tr>
<td>Untreated 2</td>
<td>2</td>
<td>10.6</td>
<td>32.9</td>
<td>1.4</td>
<td>93.9</td>
<td>lodged badly</td>
<td>1.43</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Untreated 4</td>
<td>4</td>
<td>11.0</td>
<td>32.5</td>
<td>1.4</td>
<td>91.1</td>
<td>lodged badly</td>
<td>1.32</td>
<td>1.37</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Harvest Date: 27-Aug-08
Variety: Sherwood
Previous Crop: Corn

Next Steps:
We plan to run this project again in 2009 and prepare a final report in 2010.

Acknowledgements:
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Location of Project Final Report: