AC METCALFE

Two-rowed, a cross of Oxbow/Manley, was fully registered in 1997, and was developed by Dr. Bill Legge, Brandon Research Centre, Agriculture and Agri-Food Canada.

Agronomic traits
• Higher yield
• Early maturity than Manley
• Fair lodging resistance
• Good disease resistance

Malting quality traits
• Improved resistance to peeling
• Higher extract
• Average enzyme levels and soluble protein
• Low wort beta-glucan
• Fast modification

Brewing quality traits
• Good overall brewhouse performance
• Fast conversion time
• Acceptable lautering performance
• Good yield and material efficiencies

Overall comments
AC Metcalfe’s high levels of extract and enzymes make this variety very suitable when used with higher levels of adjuncts. Its low Beta-glucan content makes AC Metcalfe attractive to brewers who experience problems with slow runoffs and poor beer filtration.

Comparative malt quality parameters

<table>
<thead>
<tr>
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<th>AC Metcalfe</th>
<th>CDC Copeland</th>
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</thead>
<tbody>
<tr>
<td>Fine Extract, %</td>
<td>~81.5</td>
<td>~81.0</td>
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<tr>
<td>Color, EBC</td>
<td>3.0 - 4.5</td>
<td>2.0 - 3.5</td>
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<tr>
<td>Total Protein, %</td>
<td>~12.5</td>
<td>~12.5</td>
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<tr>
<td>Soluble Protein, %</td>
<td>4.7 - 5.3</td>
<td>4.5 - 5.0</td>
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<tr>
<td>Kolbach Index</td>
<td>42 - 48</td>
<td>42 - 44</td>
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<tr>
<td>Diastatic Power, °L</td>
<td>110 - 150</td>
<td>100 - 130</td>
</tr>
<tr>
<td>Wort Beta – Glucan, ppm</td>
<td>70 - 120</td>
<td>70 - 110</td>
</tr>
<tr>
<td>FAN, ppm (Mean ± Std.)</td>
<td>218 ± 27.9</td>
<td>194 ± 31.2</td>
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