AAC SYNERGY

Two-rowed, a cross of TR02267/Newdale, registered in 2012, and was developed by Dr. Bill Legge, Brandon Research Centre, Agriculture and Agri-Food Canada (AAFC).

**Agronomic traits**
- 13% higher yield than AC Metcalfe, 7% better than CDC Copeland
- Good resistance to lodging
- Heavier, plumper kernels
- Maturation similar to AC Metcalfe
- Moderately resistant to net blotch and spot blotch

**Malting quality traits**
- Higher extract than AC Metcalfe
- Lower barley protein
- Average soluble protein
- Color similar to AC Metcalfe
- Enzyme levels lower than AC Metcalfe, higher than CDC Copeland
- Beta-glucan lower than AC Metcalfe and CDC Copeland

**Brewing quality traits**
- Good overall brew house performance
- Conversion time comparable to AC Metcalfe and CDC Copeland
- Lautering performance similar to AC Metcalfe and CDC Copeland
- Good yield and material efficiencies
- High fermentability

**Comparative malt quality parameters**

<table>
<thead>
<tr>
<th></th>
<th>AAC Synergy</th>
<th>AC Metcalfe</th>
<th>CDC Copeland</th>
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</thead>
<tbody>
<tr>
<td>Fine Extract, %</td>
<td>~82.1</td>
<td>~81.5</td>
<td>~81.0</td>
</tr>
<tr>
<td>Color, EBC</td>
<td>4.0 - 4.4</td>
<td>3.0 - 4.5</td>
<td>2.0 - 3.5</td>
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<tr>
<td>Total Protein, %</td>
<td>~10.5</td>
<td>~12.5</td>
<td>~12.5</td>
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<tr>
<td>Soluble Protein, %</td>
<td>4.4 - 5.3</td>
<td>4.7 - 5.3</td>
<td>4.5 - 5.0</td>
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<tr>
<td>Kolbach Index</td>
<td>41 - 48</td>
<td>42 - 48</td>
<td>42 - 44</td>
</tr>
<tr>
<td>Diastatic Power, °L</td>
<td>100 - 135</td>
<td>110 - 150</td>
<td>100 - 130</td>
</tr>
<tr>
<td>Wort Beta - Glucan, ppm</td>
<td>65 - 110</td>
<td>70 - 120</td>
<td>70 - 110</td>
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<tr>
<td>FAN, ppm (Mean ± Std.)</td>
<td>194 ± 13.2</td>
<td>218 ± 27.9</td>
<td>194 ± 31.2</td>
</tr>
</tbody>
</table>

**Overall comments**
AAC Synergy represents a variety with significantly improved yield, and maturity similar to AC Metcalfe. It performs well in the malting and brewing processes; its malt exhibits very high extract yield with enzymes lower than AC Metcalfe but higher than CDC Copeland; the malt showed fast conversion and good lautering, and its wort showed good color and excellent fermentability.

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