AC Metcalfe         2–Row Malting Barley

Strengths:
• “Recommended” status from the Canadian Malting Barley Technical Centre
• #1 malting barley variety in acres and selection

Malting Features:
• Excellent malting quality
• Large, plump kernels
• Higher malt extract than Harrington
• Better hull adherence than Harrington
• Established domestic and export market demand

Agronomic Features:
• Broadly adapted
• Higher yield than Harrington

Breeder:
Dr. W. G. Legge
Agriculture & Agri-Food Canada
Brandon, MB

Recommended Malting Barley Varieties 2015-16
The following varieties of two-row and six-row malting barley are registered with the Canadian Food Inspection Agency based on good agronomic and industry malting quality evaluations. Since registration these varieties have been pilot scale tested by the CMBTC for their malting and brewing properties. All varieties listed below exhibit good malting and brewing properties. In addition to market opportunities, seeding decisions should be based on agronomic considerations and feedback from your grain company representative, local elevator operators and malting companies. The CMBTC and its members recommend that you talk with your local malting barley buyer about opportunities in your area to grow and market two-row and six-row malting barley varieties. Visit CMBTC’s website for detailed pilot malting and brewing data - www.cmbtc.com/CMBTC_Site/Variety_Technical_Data.html

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>MARKET COMMENTS</th>
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</thead>
<tbody>
<tr>
<td>CDC Copeland</td>
<td>Established Demand</td>
</tr>
<tr>
<td>AC Metcalfe</td>
<td>Established Demand</td>
</tr>
<tr>
<td>CDC Meredith</td>
<td>Limited, Increasing Demand</td>
</tr>
<tr>
<td>Bentley</td>
<td>Limited, Stable Demand</td>
</tr>
<tr>
<td>CDC Kindersley</td>
<td>Undergoing Commercial Market Development</td>
</tr>
<tr>
<td>Cerveza</td>
<td>Undergoing Commercial Market Development</td>
</tr>
<tr>
<td>AAC Synergy</td>
<td>Undergoing Commercial Market Development</td>
</tr>
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</table>

*The following companies have pedigreed seed distribution rights for those varieties that are footnoted:
1-SeCan; 2 - CANTERRA SEEDS; 3 - Crop Production Services; 4 - FP Genetics; 5 - Syngenta; 6 - Mastin Seeds;

CMBTC and its members strongly recommend use of certified seed to ensure varietal purity and increase opportunity for selection.

For more information, call 1-800-665-7333 or visit www.secan.com
Seed Manitoba 2015 - Malting Barley Comparison

<table>
<thead>
<tr>
<th>Variety</th>
<th>Site Years Tested</th>
<th>Yield bu/ac</th>
<th>Protein +/- check</th>
<th>Maturity +/- 88 days</th>
<th>Height +/- 35&quot;</th>
<th>Test Tw. +/- 48.7lb/bu</th>
<th>Rough or Smooth Awns</th>
<th>Lodging</th>
<th>Loose Smut</th>
<th>Surface-Borne Smut</th>
<th>Root Rot</th>
<th>Netted Net Blotch</th>
<th>Spotted Net Blotch</th>
<th>Spot Blotch</th>
<th>Stem Rust</th>
<th>Fusarium Head Blight</th>
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<td>60</td>
<td>94</td>
<td>12.5</td>
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<td>+2</td>
<td>-0.5</td>
<td>R</td>
<td>F</td>
<td>MS</td>
<td>I</td>
<td>I</td>
<td>I</td>
<td>I</td>
<td>S</td>
<td>MR</td>
<td>I</td>
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<tr>
<td>CDC Kindersley</td>
<td>34</td>
<td>98</td>
<td>12.5</td>
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<td>-1</td>
<td>0</td>
<td>G</td>
<td>S</td>
<td>R</td>
<td>I</td>
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<td>MR</td>
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<td>MR</td>
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<td>CDC Meredith</td>
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<td>R</td>
<td>MR</td>
<td>I</td>
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<tr>
<td>AC Metcalfe</td>
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<td>I</td>
<td>S</td>
<td>I</td>
<td>I</td>
<td>MR</td>
<td>I</td>
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</table>

Lodging Ratings: F=Fair; G=Good; VG=Very Good Disease Ratings: R=Resistant; MR=Moderately Resistant; I=Intermediate; MS=Moderately Susceptible; S=Susceptible

2015 Saskatchewan Varieties of Grain - Malting Barley Comparison

<table>
<thead>
<tr>
<th>Variety</th>
<th># Rows</th>
<th>Awn Type</th>
<th>Yield as % of AC Metcalfe</th>
<th>Relative Maturity</th>
<th>Lodging</th>
<th>Resistance to:</th>
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<tbody>
<tr>
<td></td>
<td></td>
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<td>Net-Form Net Blotch</td>
<td>Spot-Form Net Blotch</td>
<td>Spot Blotch</td>
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<tr>
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<td>108</td>
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<td>CDC Kindersley</td>
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<td>107</td>
<td>E</td>
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<tr>
<td>CDC Meredith</td>
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<td>112</td>
<td>L</td>
<td>G</td>
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<tr>
<td>AC Metcalfe</td>
<td>2</td>
<td>R</td>
<td>100</td>
<td>100</td>
<td>M</td>
<td>G</td>
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</tbody>
</table>

M=Medium; L=Late; G=Good; VG=Very Good; F=Fair; P=Poor; VP=Very Poor

2015 Alberta Seed Guide - Malting Barley Comparison

<table>
<thead>
<tr>
<th>Variety</th>
<th>2 or 6 Row Awn</th>
<th>All sites</th>
<th>Station Years Low &lt;60 bu/ac</th>
<th>Medium 60-90 bu/ac</th>
<th>High 90-120 bu/ac</th>
<th>Very High &gt;120 bu/ac</th>
<th>Maturity Days +/- AC Metcalfe</th>
<th>Test Weight lb/bu</th>
<th>Kernel Weight g/1000k</th>
<th>Height (cm)</th>
<th>Lodging</th>
<th>Disease Tolerance</th>
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<tbody>
<tr>
<td>AC Metcalfe</td>
<td>2</td>
<td>R</td>
<td>103</td>
<td>137</td>
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<td>101</td>
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<td>106+</td>
<td>104+</td>
<td>81</td>
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<td>MS</td>
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<tr>
<td>CDC Copeland</td>
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<td>R</td>
<td>103+</td>
<td>137</td>
<td>96</td>
<td>101</td>
<td>102</td>
<td>106+</td>
<td>104+</td>
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<td>MS</td>
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<tr>
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<td>R</td>
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<td>104</td>
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<tr>
<td>AC Metcalfe</td>
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<td>F</td>
<td>MS</td>
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December 2015