



# New Variety Market Development for Malting Barley Export Markets

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# Presentation content

- Present varietal selections
- Export customer requirements
- Farmer requirements
- Some malting and brewing results of new varieties  
(Aleksander Egi – CMBTC)

# 6 row Selections

	2009	2008
<b>6 row</b>	<b>Percentage</b>	
<b>Legacy</b>	<b>81.12</b>	<b>51.29</b>
<b>Tradition</b>	<b>12.69</b>	<b>36.73</b>
<b>Lacey</b>	<b>3.46</b>	<b>6.01</b>
<b>Clyde</b>	<b>1.68</b>	<b>0.07</b>
<b>Robust</b>	<b>0.43</b>	<b>3.71</b>
<b>Mayfair</b>	<b>0.30</b>	<b>0.00</b>
<b>Stellar ND</b>	<b>0.18</b>	<b>0.00</b>
<b>Yorkton</b>	<b>0.13</b>	<b>0.60</b>
<b>Battleford</b>	<b>0.01</b>	<b>0.15</b>
<b>Excel</b>	<b>0.00</b>	<b>1.39</b>
<b>Tankard</b>	<b>0.00</b>	<b>0.04</b>

# 2 row Selections

	2009	2008	2007	2006
<b>2 row</b>	<b>Percentage</b>			
<b>Metcalfe</b>	<b>57.61</b>	<b>56.68</b>	<b>54</b>	<b>59</b>
<b>Copeland</b>	<b>30.65</b>	<b>27.28</b>	<b>24</b>	<b>21</b>
<b>Kendall</b>	<b>6.78</b>	<b>9.23</b>	<b>12</b>	<b>14.5</b>
<b>Newdale</b>	<b>3.81</b>	<b>4.92</b>	<b>4</b>	<b>na</b>
<b>PolarStar</b>	<b>0.59</b>	<b>na</b>		
<b>Harrington</b>	<b>0.28</b>	<b>1.34</b>	<b>3</b>	<b>3</b>
<b>Meredith</b>	<b>0.16</b>	<b>na</b>		
<b>Conlon</b>	<b>0.03</b>	<b>0.17</b>		
<b>Bentley</b>	<b>0.03</b>	<b>na</b>		
<b>Merit</b>	<b>0.02</b>	<b>0.08</b>		
<b>Conrad</b>	<b>0.02</b>	<b>0.00</b>		
<b>Landis</b>	<b>0.01</b>	<b>na</b>		

# Export Market

## Market

6 row - small volume - some malt and barley for barley tea (Japan)

2 row – majority of export volume

- as barley (Metcalf and Copeland)
- as malt (Metcalf, Copeland and Kendall)

Customer requirements: Why Change from a successful variety?

Generally like performance of present varieties in malthouse and brewhouse.

## Minor Issues

1. Protein still high
2. Moisture and Storability
3. Peeled and broken

# Farmer Requirements

- Varieties with good malting and brewing characteristics
- Plus
- Good agronomics (namely yield), disease resistance, and general features that increase selectability (i.e. does it weather well).
  - Farm gate return vs. other commodities (market force) – this makes yield important.

# New Varieties

2 row

- CDC Meredith
- CDC Reserve
- CDC PolarStar
- Bentley
- Norman
- CDC Landis
- Major
- TR07114

# New Varieties

## 6 Row

- CDC Mayfair
- CDC Kamsack
- Stellar ND
- Celebration



# CWB, SeCan and Richardson International

**CDC Meredith** – University of Saskatchewan – This line has shown higher kernel weight and **consistently lower protein**. Plumpness, extract, friability and protein modification were all similar to Copeland. Lower DP than Metcalfe and slightly elevated peeling values. Shows **consistent increase in yield** but is longer maturing, is more of a Copeland match.

**CDC Reserve** – Sapporo Breweries, University of Saskatchewan and Prairie Malting Limited – This line has good levels of plumpness, kernel weight, lower protein and less peeling. Malt friability levels were high but with average extract and beta-glucan. Protein modification was lower with slightly lower alpha-amylase. The maturity similar to Copeland, it does seem to have a slight lodging problem. The variety also shows some water sensitivity. **The variety has shown some significant preharvest sprouting resistance**