Trochu
6-Row Feed Barley

Trochu is a 6 row, smooth awned, dual purpose feed and silage barley with high silage and grain yield. It also has higher % plump kernels and improved test weight than other 6 row feed varieties. Trochu carries different scald resistance genes than AC Lacombe, which helps to decrease disease levels when Trochu is grown on land with a history of growing AC Lacombe.

Strengths:
- 1% higher grain yield than AC Lacombe over all sites in the 1998–99 Co-op Trials
- 4% higher grain yield than AC Lacombe in the black soils of Central Alberta
- 80% plump kernels compared to AC Lacombe at 68% plump in the 1998-99 Co-op Trials
- Intermediate resistance to net blotch, scald and common root rot
- Similar forage yield to AC Lacombe

Neutral Traits:
- Maturity similar to AC Lacombe
- Scald and net blotch resistance similar to AC Lacombe
- Different scald and net blotch resistance genes than AC Lacombe

Weaknesses:
- Lodging resistance similar to AC Lacombe
- Susceptible to loose smut

Breeder:
Dr. Jim Helm
Alberta Agriculture
Food and Rural Development

Vivar
Semi-Dwarf 6-Row Feed Barley

Vivar is a 6 row, semi-dwarf, rough awned feed barley. It has larger seed size, higher test weight and greater % plump kernels than other semi-dwarf varieties like CDC Earl, Tukwa and Kasota. In the 2002 Alberta Regional Barley Trials it had the highest average grain yield of the barley varieties tested.

Strengths:
- Large, plump kernels with higher test weight than other 6 row varieties
- 8% higher grain yield than AC Lacombe, 15% higher yield than Kasota (1998–99 Co-op Trials all sites)
- 10% higher grain yield than AC Lacombe in the black soils of Central Alberta (1998-99 Co-op Trials)
- Maturity similar to AC Lacombe
- Moderate resistance to net blotch and common root rot
- 10% higher forage yield than CDC Earl, 4% higher forage yield than Kasota (1997-99 Silage Trials: AAFRD)

Neutral Traits:
- Scald resistance similar to Tukwa and AC Lacombe but better than CDC Earl
- 10 cm shorter than AC Lacombe, 3 cm taller than CDC Earl

Weaknesses:
- Lodging resistance similar to Tukwa, Kasota and CDC Earl

Breeder:
Dr. Jim Helm
Alberta Agriculture
Food and Rural Development

For more information, call 1-800-665-7333 or visit www.secan.com

March 2009
**CDC Helgason**

**CDC Helgason** is a high yielding, strong strawed, 2 row, rough awned, feed barley. It has large plump grain with very high test weight. CDC Helgason has good net blotch resistance along with resistance to true loose, false loose and covered smut.

**Strengths:**
- 3% higher yield than CDC Dolly over all sites in the 1998–99 Co-op Trials
- 20% higher yield than Harrington over all sites in the 1998–99 Co-op Trials
- Similar % plump and higher test weight than CDC Dolly
- Stronger straw than CDC Dolly and Manley
- Good net blotch resistance
- Resistant to true loose, false loose and covered smut
- Improved spot blotch ratings

**Neutral Traits:**
- Maturity similar to CDC Dolly
- 6 cm taller than CDC Dolly, similar to Harrington in height

**Weaknesses:**
- Susceptible to scald

**Breeder:**
Dr. Brian Rossnagel  
Crop Development Centre  
University of Saskatchewan

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**Niobe**

2 row rough awned, feed barley. It has grain yield, test weight and silage yield comparable to CDC Dolly. However, it is earlier maturing and stronger strawed than CDC Dolly.

**Strengths:**
- Stronger straw than CDC Dolly
- Intermediate scald resistance
- Very high test weight
- One day earlier than CDC Dolly
- Improved net blotch resistance

**Weaknesses:**
- Susceptible to spot blotch, loose smut and root rot

**Breeder:**
Dr. Jim Helm  
Alberta Agriculture Food and Rural Development

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For more information, call 1-800-665-7333 or visit [www.secan.com](http://www.secan.com)
### Seed Manitoba 2009 - Barley Comparison

<table>
<thead>
<tr>
<th>Variety</th>
<th>Long Term Average Yield (% of AC Metcalfe)</th>
<th>Relative Maturity (days)</th>
<th>Height (Inches)</th>
<th>Test Weight (lb/bu)</th>
<th>Lodging</th>
<th>Loose Smut</th>
<th>Surface Borne Smut</th>
<th>Root Rot</th>
<th>Netted Blotch</th>
<th>Spot Blotch</th>
<th>Stem Rust</th>
<th>Fusarium Head Blight</th>
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<td>VG</td>
<td>F</td>
<td>F</td>
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VG=Very Good; G=Good; F+=Fair Plus; F=Fair; P=Poor; VP=Very Poor

### 2009 Saskatchewan Varieties of Grain - Barley Comparison

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<thead>
<tr>
<th>Variety</th>
<th>Awn Type</th>
<th>Yield as % of AC Metcalfe</th>
<th>Relative Maturity</th>
<th>Lodging</th>
<th>Net Blotch</th>
<th>Scald</th>
<th>Loose Smut</th>
<th>Other Smuts</th>
<th>Root Rot</th>
<th>Stem Rust</th>
<th>Fusarium Head Blight</th>
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</table>

R=Rough; S=Smooth; E=Early; M=Medium; L=Late; VG=Very Good; G=Good; F=Fair; P=Poor; VP=Very Poor

### 2009 Alberta Seed Guide - Barley Comparison

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield as % of AC Metcalfe</th>
<th>Relative Maturity (days)</th>
<th>Test Weight (lb/bu)</th>
<th>Kernel Weight (g/1000)</th>
<th>Height (cm)</th>
<th>Lodging</th>
<th>Loose Smut</th>
<th>FL + Cov. Smut</th>
<th>Com. Root Rot</th>
<th>Scald</th>
<th>Net Blotch</th>
<th>Tolerance to Fusarium Head Blight</th>
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<td>79</td>
<td>G</td>
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</table>

R=Rough; S=Smooth; SS=Simi-Smooth; EX=Excellent; VG=Very Good; G=Good; F=Fair; P=Poor; VP=Very Poor

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