

CDC Copeland

2-Row Malting Barley



Strengths:

- “Recommended” status from the Canadian Malting Barley Technical Centre
- 16% higher yield than Harrington, 2% higher yield than Manley (1996 – 98 Coop Trials)
- 3 days earlier maturing than Manley (1 day later than Harrington)
- Moderate resistance to net blotch (similar to Manley)
- Better stem rust resistance than Manley and Harrington
- Much stronger straw than Harrington, slightly stronger straw than Manley
- Higher test weight and plumper kernels than Manley, kernel plumpness similar to Harrington
- Much lower beta-glucan than Harrington and Manley
- Excellent malting quality

Neutral Traits:

- 7 cm taller than Harrington, 5 cm taller than Manley
- Susceptible to Scald and Septoria as are Manley and Harrington

Weaknesses:

- Susceptible to loose smut
- More susceptible to common root rot than Manley

Breeder:

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1996-98 Western Cooperative Two Row Barley Registration Trials

| Entry | Yield (% Harrington) | Maturity (days) | Height (cm) | Lodging 1 = best 9 = flat | Kernel Weight (mg) | % Plump | Scald Rating | Net Blotch rating | Loose Smut | Other Smuts |
|--------------|----------------------|-----------------|-------------|---------------------------|--------------------|---------|--------------|-------------------|--------------|--------------|
| Harrington | 100 | 87.3 | 80 | 4.2 | 41.0 | 86.7 | Susceptible | Susceptible | Susceptible | Susceptible |
| Manley | 113 | 91.4 | 82 | 3.1 | 44.4 | 83.1 | Susceptible | Intermediate | Intermediate | Intermediate |
| CDC Copeland | 116 | 88.5 | 87 | 2.8 | 45.1 | 86.7 | Susceptible | Intermediate | Intermediate | Intermediate |

Seed Manitoba 2006 - Malting Barley Comparison

| Variety (Rows) | Long Term Average Yield (% of Robust) | Days to Maturity (+/- Robust) | Height (Inches) | Test Weight | Awn Type | Resistance to: | | | | | | |
|-------------------------|---------------------------------------|-------------------------------|-----------------|-------------|----------|----------------|-----------|------------|---------------------|----------|------------|----------|
| | | | | | | Lodging | Stem Rust | Loose Smut | Surface -Borne Smut | Root Rot | Net Blotch | Fusarium |
| Robust (6) | 100 | 0 | 0 | 0 | S | G | G | F | F | F | P | P |
| Harrington (2) | 82 | -3 | -4 | -0.1 | R | P | P | P | P | P | VP | G |
| AC Metcalfe (2) | 103 | -1 | -4 | 0.7 | R | F | G | VG | F | F | F | F |
| CDC Kendall (2) | 99 | 1 | -4 | 0.9 | R | F | P | P | P | F | F | F |
| CDC Stratus (2) | 98 | -2 | -5 | 0 | R | F | G | P | F | F | F | F |
| CDC Copeland (2) | 105 | -1 | -2 | 0.2 | R | F | G | P | F | F | F | F |

VG=Very Good; G=Good; F+=Fair Plus; F=Fair; P=Poor; VP=Very Poor

2006 Saskatchewan Varieties of Grain - Malting Barley Comparison

| Variety (Rows) | Awn Type | Yield as % of AC Metcalfe | | | | Relative Maturity | Resistance to: | | | | | | | |
|-------------------------|----------|---------------------------|------------|------------|------------|-------------------|----------------|------------|----------|------------|-------------|----------|-----------|----------|
| | | Area 1 | Area 2 | Area 3 | Area 4 | | Lodging | Net Blotch | Scald | Loose Smut | Other Smuts | Root Rot | Stem Rust | FHB |
| Harrington (2) | R | 99 | 92 | 89 | 88 | M | F | VP | P | P | P | F | P | G |
| AC Metcalfe (2) | R | 100 | 100 | 100 | 100 | M | G | F | P | VG | F | F | G | F |
| CDC Kendall (2) | R | 99 | 103 | 102 | 102 | M | G | F | P | P | P | F | F | F |
| CDC Stratus (2) | R | 100 | 104 | 105 | 104 | M | G | F | P | F | F | F | G | F |
| CDC Copeland (2) | R | 109 | 107 | 107 | 107 | M | G | F | P | P | F | F | F | F |

M=Medium; VG=Very Good; G=Good; F=Fair; F+=Fair Plus; P=Poor; VP=Very Poor

FHB=Fusarium Head Blight

2006 Alberta Seed Guide - Malting Barley Comparison

| Variety (Rows) | Yield as % of Harrington | | | | | | Awn Type | Comp. Maturity (Days) | Test Wt. | Kn. Wt. | Ht. (cm) | Resistance to: | | | | | | Tol. FHB |
|-------------------------|--------------------------|------------|------------|------------|------------|------------|----------|-----------------------|-----------|-----------|-----------|----------------|------------|--------------|---------------|----------|------------|----------|
| | Irr | Area 1 | Area 2 | Area 3 | Area 4 | Area 5 & 6 | | | | | | Ldg. | Loose Smut | FL+Cov. Smut | Comm Root Rot | Scald | Net Blotch | |
| Harrington (2) | 100 | 100 | 100 | 100 | 100 | 100 | R | 98 | 50 | 44 | 78 | F | S | S | I | S | S | G |
| AC Metcalfe (2) | 102 | 100 | 107 | 114 | 110 | 109 | R | 1 | 52 | 46 | 82 | F | R | I | I | S | I | F |
| CDC Kendall (2) | 101 | 97 | 102 | 113 | 109 | 105 | R | -1 | 52 | 45 | 78 | F | S | S | I | S | I | F |
| CDC Stratus (2) | 104 | 99 | 101 | 111 | 109 | 105 | R | 0 | 52 | 46 | 78 | G | I | I | I | S | I | F |
| CDC Copeland (2) | 114 | 101 | 110 | 120 | 113 | 116 | R | 1 | 50 | 48 | 83 | F | S | I | I | S | I | F |

Test Wt.=Test Weight (lb/bu); Kn. Wt.=Kernel weight (grams/1000 kernels);

G=Good; F=Fair; R=Resistant; I=Intermediate; S=Susceptible

Irr=Irrigation Ldg.=Lodging

Ht.=Height FL+Cov. Smut=False loose & covered smuts Tol. FHB=Fusarium Head Blight Tolerance