

# SeCan TECHNICAL BULLETIN

## AC Metcalfe (TR 232) 2-Row Malting Barley

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**Pedigree:** AC Oxbow/Manley

**Description:** AC Metcalfe was tested in Coop Registration trials from 1991 to 1993. AC Metcalfe is a two-row malting barley variety which is best adapted to the Black and Grey soil zones. This high yielding variety has excellent malting quality characteristics due in part to its kernel plumpness and high malt extract. It consistently yields more than Harrington in all soil zones and is similar to Manley in height, lodging resistance and kernel weight. However, AC Metcalfe has higher test weight and plumper kernels than Manley and is 3 days earlier maturing than Manley. This variety also has good loose smut resistance and shows improved resistance to the surface-borne smuts.

### Strengths:

- 3 days earlier maturing than Manley (1 day later than Harrington)
- 7% higher yield than Harrington over 3 years of Coop trials
- good resistance to loose smut
- moderate resistance to the spot-form of net blotch
- improved resistance to net blotch as an adult plant
- higher test weight and plumper kernels than Manley and Harrington
- much stronger straw than Harrington, straw strength similar to Manley
- excellent malting quality

### Neutral Traits:

- Matures 1 day later than Harrington
- Height similar to Manley
- 3% lower yield than Manley over three years of Coop trials

### Weaknesses:

- Susceptible to Scald and Septoria as are Manley and Harrington
- Susceptible to some net-form isolates of net blotch as a seedling
- More susceptible to common root rot than Manley

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