

ENDEAVOUR



a spring bread wheat

Endeavour is a high yielding, high quality spring bread wheat released by Crop & Food Research in 1994. It produces a strong flour requiring a high work input. Trials indicate its yield is up to 5% higher than Otane with good levels of resistance to most common wheat leaf diseases.

It is recommended for sowing in Canterbury and Marlborough.

Key features

- *Competitive bread wheat yield (NZCT trials)*
- *Very high quality, desired by end users*
- *Good general disease resistance*
- *Good tillering ability*
- *Attractive plant type - easy to harvest*

Characteristics

Endeavour is an early to medium maturing, medium height spring wheat that tillers well. It stands well with good straw strength and shedding resistance and is easy to thresh.

This cultivar produces protein values similar to those of Otane, with slightly increased sprouting resistance. In dry conditions it can produce increased screenings and reduced test weights.

Endeavour has a 10-15% smaller seed size than Otane.

It has good resistance to most races of stripe rust, but is susceptible to a new race. All crops should be monitored closely. **Endeavour** has good resistance to barley yellow dwarf virus, leaf rust and black point. It has moderate resistance to most other diseases, including speckled leaf blotch, glume blotch, leaf rust and fusarium. It can be susceptible to mildew in areas where mildew disease pressure is high.

Management

Agronomic practices should be similar to those used for other spring bread wheats.

Sowing

Endeavour is best sown in Canterbury and Marlborough during August and September but can be sown in July. The recommended sowing rate is 120-140 kg/ha.

Fertiliser

Endeavour's quality characteristics are best expressed when protein levels are around 12-13%. As it is capable of producing high yields, adequate nitrogen must be available during tillering, stem elongation and early grain filling to ensure anticipated yield and quality are achieved.

As it has a smaller grain size than Otane, dryland growers should be cautious about early N applications which could boost tillering and grain-set and then cause reduced grain size if conditions become dry during grain filling. Seek specialist advice if necessary.

Straw strength

Endeavour has good straw strength but a straw shortener should be applied where expected yields are more than 7 t/ha.

Fungicides

In average seasons, one broad spectrum fungicide should be applied around ear emergence to aid the cultivar's good natural resistance to stripe rust and late leaf and ear diseases. In seasons and/or areas where disease pressure is high, an earlier fungicide may be required for mildew or stripe rust.

Harvesting

Like all wheats, **Endeavour** should be harvested promptly to avoid any physical or quality deterioration.

Marketing

Crop & Food Research, as head licensee, has appointed Canterbury Seed Company as head seed production licensee.

Acknowledgements

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