

LongReach Beaufort

Red grained feed wheat



Fact Sheet Autumn 2009

Variety Summary

- High yielding red grained feed wheat
- Awnless with maturity suited to early seeding
- Excellent agronomic type
- Strong straw
- Stable performance

"Beaufort is the number one ranked variety in long term MET's (2000-2007). While it has some vernalisation requirement, it tends to behave more like a late maturing spring type, which enables it to perform well in both a tight grain filling year and in a spring with good rainfall. Its high yield combines with a good suite of foliar disease resistances including all three rusts, an awnless type, strong straw and good agronomic appearance, make Beaufort a Best Bet for the Southern Victoria HRZ." (2009 Victorian GRDC Grains Research Update Booklet pg 33)

General Description

Beaufort is an awnless, white chaffed, semi dwarf wheat variety with medium to tall plant height at maturity.

Breeding

The source line for Beaufort (PO102245-2904) has been developed in the spring wheat breeding program of CC Benoist, the French subsidiary of Syngenta Seeds. LongReach Plant Breeders evaluated and progressed this line in Australia

Agronomy

• Plant Characteristics and Adaptation

Beaufort does require limited vernalisation. It is a vigorously tillering plant type with somewhat prostrate form in its vegetative stage, becoming an erect bulky plant type at stem elongation. It has performed well in longer season, medium to high rainfall zones in Western Victoria; high yielding environments in New South Wales (NSW) Riverina and; under irrigation and in high production areas of northern NSW. Growers harvesting Beaufort in 2007/08 observed that care needs to be taken at harvest to avoid shattering of the grain.

• Disease Resistance

Beaufort has very good levels of resistance (MR-R) to all known pathotypes of leaf and stripe rust. The leaf tip necrosis observed in adult plants suggests it carries the Lr34 leaf rust resistance gene which is present in the parental lines.

It has good level of resistance (MR) to the commonly occurring pathotypes of stem rust. It has a susceptible field resistance reaction to both Crown Rot and Yellow Leaf Spot.

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- **Maturity**

Beaufort is classed as an early to mid season maturity variety and performs best when planted in early to mid May in mid season environments. Beaufort is slightly later to heading and physiological maturity than Chara.

- **Yield Potential**

Beaufort has demonstrated a consistently high yield potential in yield trials conducted by Southern Farming Systems (see graph below), LongReach Plant Breeders and National Variety Trials in Western Victoria over the past three years and in specific trials conducted in high production areas of NSW.

LongReach Beaufort Summary Yield Results
(MET's Estimated tonnes / ha, South West Victoria)

| | 2004 GS | 2005 GS | 2006 GS | 2007 GS | 2007 NVT | 2008 NVT |
|-----------------|---------|---------|---------|---------|----------|----------|
| Amarok | 6.50 | 8.22 | 3.21 | | | 4.58 |
| Kellalac | 6.05 | 6.58 | 3.60 | 5.81 | 5.31 | 4.21 |
| Beaufort | 7.00 | 8.44 | 4.21 | 6.92 | 7.86 | 5.89 |
| Bolac | | | | | 7.36 | 4.98 |

MET's = multi environment trials

- **Grain Quality**

Beaufort is a medium soft red grain, and has a maximum Australian market classification of Feed.

Plant Breeder Rights and Royalties

Beaufort is protected by Plant Breeders Rights. Any unauthorised commercial propagation or any sale, conditioning, export, import or stocking of propagating material of this variety is an infringement under the PBR Act, 1994. Growers are allowed to retain seed from production of this variety for their own use as seed only. An End Point Royalty of \$3.00 / tonne (GST exclusive), which includes breeder royalties, applies to this variety.