

# GS1234

## Potential Malt Barley



Fact Sheet Autumn 2009

### Variety Summary

- Long term yields equivalent to slightly better than Gairdner
- Similar maturity to Gairdner
- Lower Biomass than Gairdner resulting in improved Water Use Efficiency
- Shorter straw and improved head retention in comparison to Gairdner
- Physiological leaf spotting appeared in 2007. No apparent impact on yields
- Registered for Barley Australia Malt Accreditation
- Malteurop has communicated their desire to procure approximately 10,000 tonnes of malt quality grain from the 2009/10 harvest

*"We have found GS1234 shorter, stronger at the neck, and easy to harvest, due to less material through the harvester. In the two tough years we have grown GS1234 we have found it to be higher yielding and of malt quality, which is more than I can say about Gairdner" Rowan Peel, March 2009 (Peel Ag, Inverleigh).*

### Breeding

GS1234 (Chieftain X Scarlett) was bred by European breeding company Nickersons, a successful global barley breeding company. Grainsearch, in collaboration with the Australasian licensor PGG Wrightson, has been evaluating a number of experimental lines for the past 7 years including GS1234.

### Agronomy

#### Plant Characteristics of GS1234 compared to Gairdner

- Short strawed, low tillering variety.
- Less prone to lodging in fertile growing conditions.
- Increase sowing rates by 20%, to achieve optimum grain heads per sq metre
- Suited to wider row seeding used in stubble retention practices because of lower tillering.

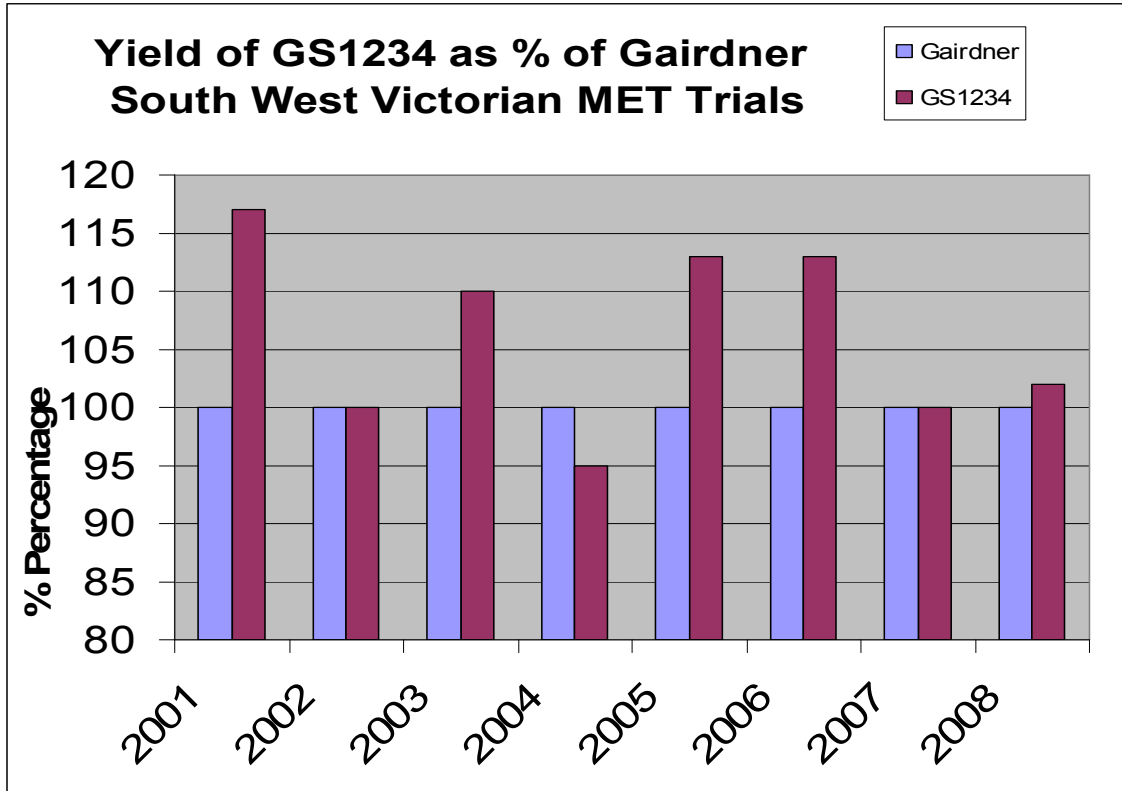
### Disease Resistance

Only a limited number of disease assessments have been conducted on GS1234 by plant pathologists. GS1234 was observed to have a leaf rust rating of Moderately Susceptible at the 2008 NVT Hamilton site (Grant Holloway, DPI Victoria) and a Spot Form of Net Blotch rating of Susceptible at the 2008 NVT trials in South Australia (Hugh Wallwork, SARDI). Further disease assessments will be completed in 2009. Physiological leaf spotting may be causing some confusion with disease identification.

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## Yield Potential

GS1234 has demonstrated a consistently high yield potential in Grainsearch yield trials conducted by Southern Farming Systems (see graph below, yield represented as % of Gairdner), National Variety and other private trials when sown at similar sowing rates.



## Grain Quality

Malteurop conducted 2 years of micro malt testing in 2006 and 2007 and a large scale malt test in 2008. Results indicate that GS1234 could achieve an export malt classification. Further malt evaluation is required for GS1234 to achieve a Barley Australia export malt accreditation. The positive malt quality results have provided Malteurop with the confidence to communicate their desire to procure approximately 10,000 tonnes of malt quality grain from the 2009/10 harvest.

## Plant Breeder Rights and Royalties

Growers wishing to grow GS1234 need to agree to the Grainsearch Seed Licence terms and conditions. Any unauthorised commercial propagation or any sale, conditioning, export, import or stocking of propagating material of this variety is an infringement of the Grainsearch Seed Licence Agreement. Growers are allowed to retain seed from production of this variety for their own use as seed only. An End Point Royalty of \$2.00 / tonne (GST exclusive), which includes breeder royalties, applies to this variety.

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