

NEW

New South Wales



LongReach 
 **Gazelle**

KEY FEATURES

- A high yielding soft wheat
- ASF - Biscuit classification in Northern Zone, South Eastern Zone and Southern Zone
- Mid to long season maturity similar to QAL2000 and Yenda
- Ideally suited to early plantings and high production systems
- Improved Stripe rust resistance to established soft wheat varieties (MR-MS rating to all current pathotypes)
- High quality soft wheat with a good grain package, sound test weights, low screenings and low protein accumulation

BREEDING Pedigree: 24K1056/VPM/3*Vasco

The original cross of Gazelle (C51115) made by Dr Akram Khan, was initially selected by the Value Added Wheat CRC. The line was first received by LongReach Plant Breeders in 2008. Gazelle has been extensively evaluated by the LongReach Plant Breeders technical team led by Dr Bertus Jacobs and Dr Marie Appelbee in more than 90 yield and quality trials over 4 years. The line was first entered into National Variety Trials in 2009.

GRAIN QUALITY AND PLANT CHARACTERISTICS

Gazelle has a ASFT final classification in NSW and South Australia and has been approved for release by Allied Mills and Arnotts as a suitable soft wheat variety that meets all their quality requirements.

It is suited to early to main season planting windows with mid to long season maturity similar to QAL2000 in northern NSW and slightly earlier than Yenda in southern NSW. Gazelle has long coleoptiles with good early seedling vigour and medium plant height at maturity, being similar to Bowie and QAL2000. Moderately susceptible (MS) to lodging under high productive environments, being similar to QAL2000.

Preliminary data indicates shattering resistance.

Appears well suited to Acid soils with good yield performance in low pH soils.



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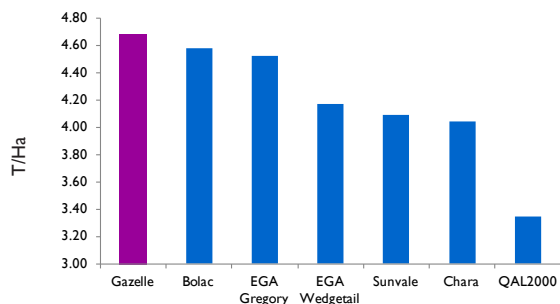
A good rust resistant package is a key attribute of Gazelle. It has been shown to be Very Susceptible (VS) to Powdery Mildew so pre-emptive management should be put in place were this to be an expected problem.

Table 2. Disease and Pest Resistance Ratings: Gazelle and commercial varieties.

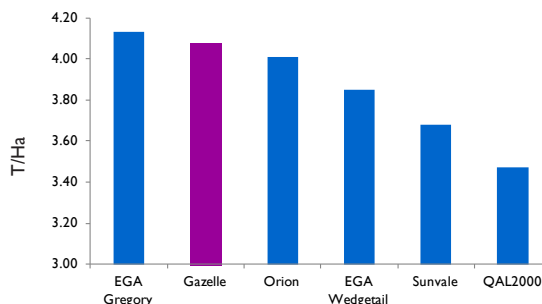
Variety	Disease Ratings								Pest Reaction	
	Stem Rust	Leaf Rust	Stripe Rust	Stripe Rust	Septoria tritici	Crown Rot	Yellow Leaf Spot	Common Root Rot	RLN	
			WA/Jackie	Yr17+ Yr27					(Pthornei) Resistance	(Pthornei) Tolerance
Barham	MR	MR-MS	R-MR	MS-S	S	S	MS-S	MS-S	VS	MI
Bowie	S	MS	R-MR	S	MS	S	S	S	S-VS	MI
Gazelle	MR	R-MR	MR-MS	MR-MS	MS*	S*	MS-S	MS-S*	-	I
Impala	R-MR	MS-S*	MR	MR	S*	MS-S*	MS	S	-	MI-I
QAL2000	R-MR	R	R	VS	MR-MS	S-VS	MS-S	MR	MS	MI
Rosella	MR-MS	MR-MS	MR-MS	MR-MS	MR-MS	MS-S	S	-	VS	-
Yenda	R	R	R-MR	S	MS	S	MR-MS	MS-S	VS	I

Resistance rating: VS=Very Susceptible, S=Susceptible, MS=Moderately Susceptible, MR=Moderately Resistant
 R=Resistant. Tol Rating - T =Tolerant, MT=Moderately Tolerant, MI =Moderately Intolerant, I = Intolerant, VI =Very Intolerant
 Data sourced NSW DPI 2013, LongReachPlant Breeders April 2012 * Preliminary Data Based on limited data set

Average Yield (t/ha) of 30 Early Season NVT's across Southern NSW 2010 & 2011



Average Yield (t/ha) of 24 Early Season NVT's across Northern NSW 2010 & 2011



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End Point Royalty (EPR)

Each time a grower purchases seed of LongReach Gazelle the grower agrees to comply with the Variety Licence and Royalty Agreement, including agreement to pay the EPR of \$4.40 per tonne (GST inclusive). EPR is payable on all grain production, except on seed retained by the grower for replanting by the grower. The majority of the EPR will be paid by Pacific Seeds to the Breeder (LongReach Plant Breeders) for investment in future wheat breeding programs.

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