



LongReach



Impala

KEY FEATURES

- A high yielding soft wheat - ASFT Biscuit in Northern, South Eastern and Southern Zones
- Quick to main season maturity suited to a main season planting
- Excellent Stripe rust resistance package (MR rating to WA and WA Yr17+ pathotypes, a significant improvement over all current soft wheat varieties)
- Good Crown Rot rating for the north (MS-S)
- Very good soft wheat grain package with excellent test weight, low screenings and low protein accumulation

BREEDING Pedigree:TEAL/C93.8//9908

The original cross of Impala (C51021) 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. Impala has been extensively evaluated by the LongReach Plant Breeders technical team, led by Dr Bertus Jacobs and Dr Marie Appelbee. The line was first entered into National Variety Trials in 2009.

AGRONOMIC FEATURES

Impala is a high yielding variety suited to main season plantings in dryland and supplementary irrigation soft wheat growing areas of NSW.

Impala has a ASFT final classification in Northern and South Eastern Zones and has been approved for release by Allied Mills and Arnotts as a suitable soft wheat variety that meets all their quality requirements. Impala has a short to medium plant height, with maturity similar to Crusader and Livingston in northern NSW and Lincoln and Ventura in southern NSW. Impala is moderately susceptible (MS) to lodging under highly productive environments.

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

Variety	Disease Ratings							Pest Reaction	
	Stem Rust	Leaf Rust	Stripe Rust	Stripe Rust	<i>Septoria tritici</i>	Crown Rot	Yellow Spot	RLN (<i>P.thornei</i>)	
			WA/Jackie	WA + Yr17 pt				Res	Tol
Barham	MR	MR-MS	R-MR	MS-S	S	S	MS-S	VS	MI
Bowie	S	MS	R-MR	S	MS	S	MS-S	S-VS	MI
Impala	R-MR	MS-S	MR	MR	S	MS-S	MS	VS	MI-I
QAL2000	R-MR	R	R	VS	MR-MS	S-VS	MS-S	MS	MI
QALBis	R-MR	R	R-MR	S-VS	-	S	MS-S	S	I-VI
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	VS	I

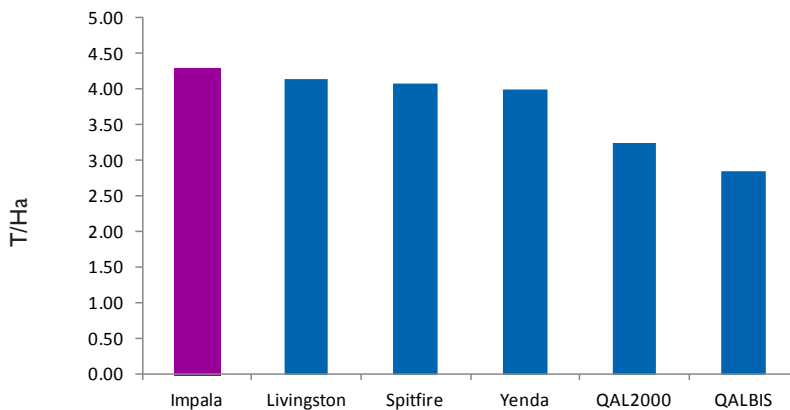
Resistance rating: VS=Very Susceptible, S=Susceptible, MS=Moderately Susceptible, MR=Moderately Resistant
R=Resistant. Tol Rating - T =Tolerant, MT=Moderately Tolerant, MI =Moderately Intolerant, I = Intolerant, VI =Very Intolerant
Data sourced NSW DPI 2013 LongReachPlant Breeders * Preliminary Data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



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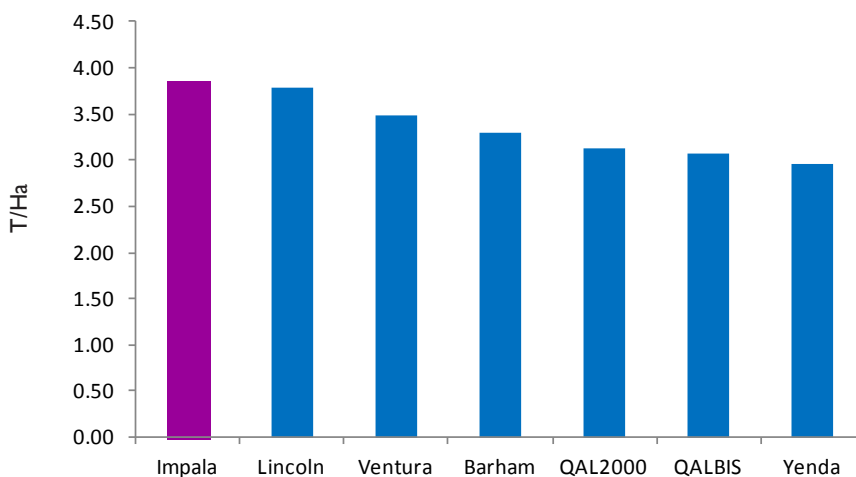


Impala versus commercial varieties in North East NSW



Data sourced from Northern NSW Main Season long term NVT 2008 - 2012

Impala versus commercial varieties in South East NSW



Data sourced from Southern NSW Main Season long term NVT 2008 - 2012



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End Point Royalty (EPR)

Each time a grower purchases seed of LongReach Impala the grower agrees to comply with the Variety Licence and Royalty Agreement, including agreement to pay the EPR of \$3.85 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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