Lancelin[Ⓑ]

- Australian Soft (ASFT) quality classification
- High and stable yields in WA, similar to Scepter®
- Mid season maturity, similar to Scepter®
- Disease resistance package similar to Scepter®
- Excellent physical grain quality package, with high test weights and low screenings
- Under market development - future opportunities may exist

Breeder's comments

Due to improved agronomic practices and better performing varieties, growers are producing higher yields than ever before. However, higher yields can mean that achieving high protein is more challenging.

Where protein achievement is difficult, there may be opportunities to grow soft, biscuit style wheat which requires a lower protein level. This market segment has disappeared in recent times, however, we aim to reinvigorate the soft wheat industry in WA, targeting export customers throughout the south-east Asian market.

Lancelin$^{\Phi}$ is our first soft (ASFT) classified variety, suitable for end use products such as biscuits and cookies. With similar yields and agronomic package to Scepter$^{\Phi}$, Lancelin$^{\Phi}$ provides growers with an alternative to traditional hard bread wheat varieties, in areas where high protein is hard to achieve.

Lancelin

Table 1. Specifications

Background

Tested as	OAGT0049R
Released	2024
EPR rate	$3.70/tonne + GST

Disease

Stem Rust resistance*	MRMS
Stripe Rust resistance*	RMR
Leaf Rust resistance*	MSS
Yellow Spot resistance*	MRMS
Powdery Mildew resistance*	S
Septoria Nodorum Blotch (Glume) resistance*	S
Septoria Nodorum Blotch (Leaf) resistance*	MRMS

Plant Characteristics

Maturity speed^	Mid
Maturity habit^	Spring
Sowing window^	Main & Late
Novel herbicide tolerance^	None (conventional tolerance)
Head type^	Awned
Plant height^	Moderate
Coleoptile length^	Very short
Lodging tolerance^	MI

Abiotic Stress

Boron tolerance^	Carries tolerance gene
Acid/aluminium tolerance^	Carries tolerance gene

Grain Quality

Quality classification	ASFT
Grain colour	White
Screenings level^	Low
Test weight^	High
Sprouting tolerance^°	MII
Black Point resistance*	MSS (P)

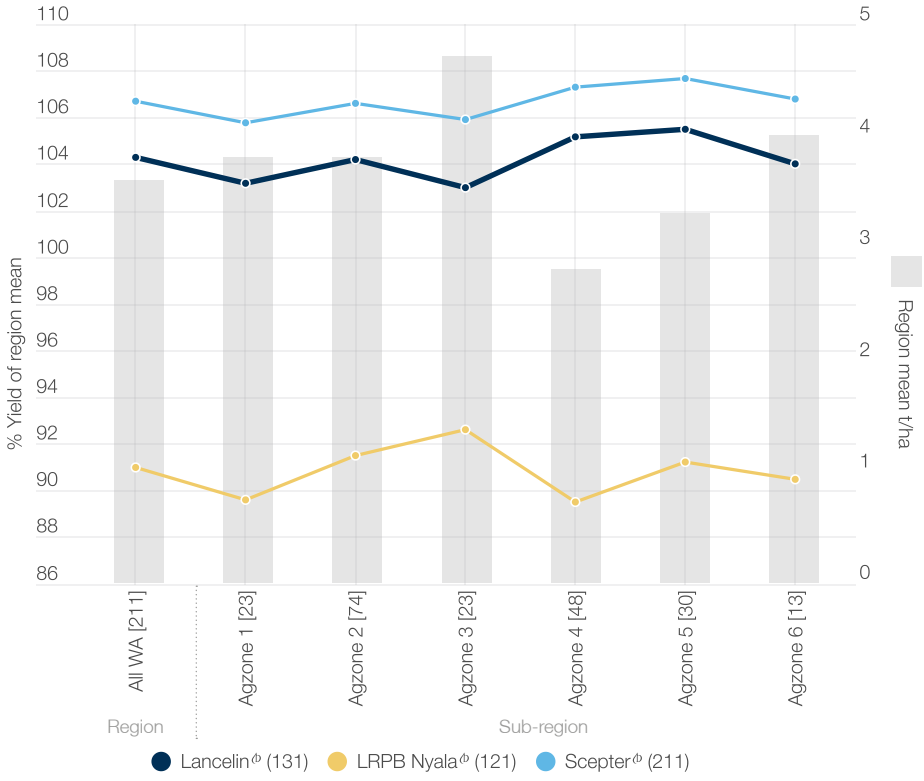
Legend

R	Resistant
MR	Moderately Resistant
MS	Moderately Susceptible
S	Susceptible
VS	Very Susceptible
T	Tolerant
MT	Moderately Tolerant
MI	Moderately Intolerant
I	Intolerant
VI	Very Intolerant
(P)	Provisional rating
NA	Not Available
/	Pathotype differences
-	Range
,	Mixed phenotype
#	May be more susceptible to alternate pathotypes
*	NVT consensus ratings 2025
°	Rating based on Germination Index Values
^	AGT ratings/data interpretation. Comprehensive AGT agronomic trait ratings and data can be found at: https://bit.ly/TraitRatings

Grain yield

Lancelin$^{\Phi}$ has demonstrated high and stable yields in all WA environments, yielding within 2-3% of widely grown hard quality variety Scepter$^{\Phi}$ in all environments. Lancelin$^{\Phi}$ has yielded significantly higher than soft quality competitor LRPB Nyala$^{\Phi}$ (Figure 1).

Figure 1. Predicted grain yield of Lancelin$^{\Phi}$ versus comparators across WA regions



Source: NVT long term MET analysis, main season trial series 2020-2024

[ ] : Total number of trials per region

( ) : Number of trials that each variety was present in across the dataset

Variety comparisons

Lancelin® has an Australian Soft (ASFT) quality classification and has produced grain with excellent test weight and low levels of screenings, similar to Scepter®.

Lancelin® has a disease resistance profile similar to Scepter®, with good rust and yellow spot resistance.

Table 2. Variety comparisons

		Lancelin®	Scepter®	LRPB Nyala®
Disease	Stem Rust resistance*	MRMS	MRMS	SVS
	Stripe Rust resistance*	RMR	RMR	RMR
	Leaf Rust resistance*	MSS	MSS	S
	Yellow Spot resistance*	MRMS	MRMS	MS
	Powdery Mildew resistance*	S	S	RMR
	Septoria Nodorum Blotch (Glume) resistance*	S	NA	NA
	Septoria Nodorum Blotch (Leaf) resistance*	MRMS	NA	NA
Plant Characteristics	Maturity speed^	Mid	Mid	Quick-mid
	Maturity habit^	Spring	Spring	Spring
	Sowing window^	Main & Late	Main & Late	Main & Late
	Novel herbicide tolerance^	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)
	Head type^	Awned	Awned	Awned
	Plant height^	Moderate	Moderate	Moderately tall
	Coleoptile length^	Very short	Short	Very short
	Lodging tolerance^	MI	MI	MI
Abiotic Stress	Boron tolerance^	Carries tolerance gene	Carries tolerance gene	Does not carry tolerance gene
	Acid/aluminium tolerance^	Carries tolerance gene	Carries tolerance gene	Does not carry tolerance gene
Grain Quality	Quality classification	ASFT	AH	ASFT
	Grain colour	White	White	White
	Screenings level^	Low	Low	Moderate
	Test weight^	High	High	Moderate
	Sprouting tolerance^°	MII	MII	MII
	Black Point resistance*	MSS (P)	MS	MS

Published August 2025

Publication #25-030

Seed Availability

Please contact an AGT Affiliate or your local retailer for seed. Consult the AGT website for AGT Affiliate contact details (www.agtbreeding.com.au/affiliates). AGT varieties can be traded between growers upon the completion of a License Agreement as part of AGT's Seed Sharing™ initiative (www.agtbreeding.com.au/seedsharing)

PBR and EPR

Varieties denoted by the Φ symbol are protected by Plant Breeders Rights (PBR) and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. Growers of PBR protected varieties will be subject to a Grower License Agreement that acknowledges that an EPR must be paid on all production other than seed saved for planting.

Contact

Floyd Sullivan, Variety Support Manager, Western Australia: 0499 580 260

AGT End Point Royalty team: (08) 7111 0201

agtbreeding.com.au