

# Leverage<sup>®</sup>



- Replacement for EGA Gregory<sup>Ⓟ</sup>, Coolah<sup>Ⓟ</sup> and LRPB Flanker<sup>Ⓟ</sup>
- Very high yielding in the early planting window
- APH quality classification
- Good resistance to major diseases
- Mid-slow maturity, suited to late April/early May plantings
- Good yellow leaf spot resistance
- Good physical grain quality characteristics
- Shorter plant type than other “EGA Gregory<sup>Ⓟ</sup>” type varieties

## Breeder's comments

Leverage<sup>ϕ</sup> represents the next yield jump in a line of breeding that stretches back to EGA Gregory<sup>ϕ</sup>. In 2004 EGA Gregory<sup>ϕ</sup> was released as a high yielding, well adapted variety for NSW and Queensland. While EGA Gregory<sup>ϕ</sup> quickly gained favour with farmers, wheat breeders were also finding great success with EGA Gregory<sup>ϕ</sup> as a parent. The result was that from 2015 to 2019 no less than seven varieties were released that had EGA Gregory<sup>ϕ</sup> in their parentage.

Leverage<sup>ϕ</sup> possesses a good dose of EGA Gregory<sup>ϕ</sup> genetics through its parent Coolah<sup>ϕ</sup> and builds upon the yield potential of both. Across AGT long term breeding trials and the 2022 NVT trials, Leverage<sup>ϕ</sup> has been dominant in its yield performance, beating competitor varieties in the early planting window by more than 10%.

Leverage<sup>ϕ</sup> has a rating of MRMS for stripe rust which is a step up on varieties like Coolah<sup>ϕ</sup>, Coota<sup>ϕ</sup> and EGA Gregory<sup>ϕ</sup>. Leverage<sup>ϕ</sup> is also rated MRMS to yellow leaf spot, which is an uncommon rating for varieties that are well adapted to NSW and Queensland.

With a combination of exceptionally high yield, APH classification, favourable grain quality characteristics, sound disease resistance and mid-slow maturity suited to late April and early May plantings, Leverage<sup>ϕ</sup> will be a terrific addition to farming enterprises in NSW and Queensland.

## Seed availability

Commercial quantities of Leverage<sup>ϕ</sup> may be available through AGT Affiliates, or your local retailer. Please consult the AGT website for AGT Affiliate contact details. Leverage<sup>ϕ</sup> can be traded between growers upon the completion of a License Agreement as part of AGT's Seed Sharing™ initiative.

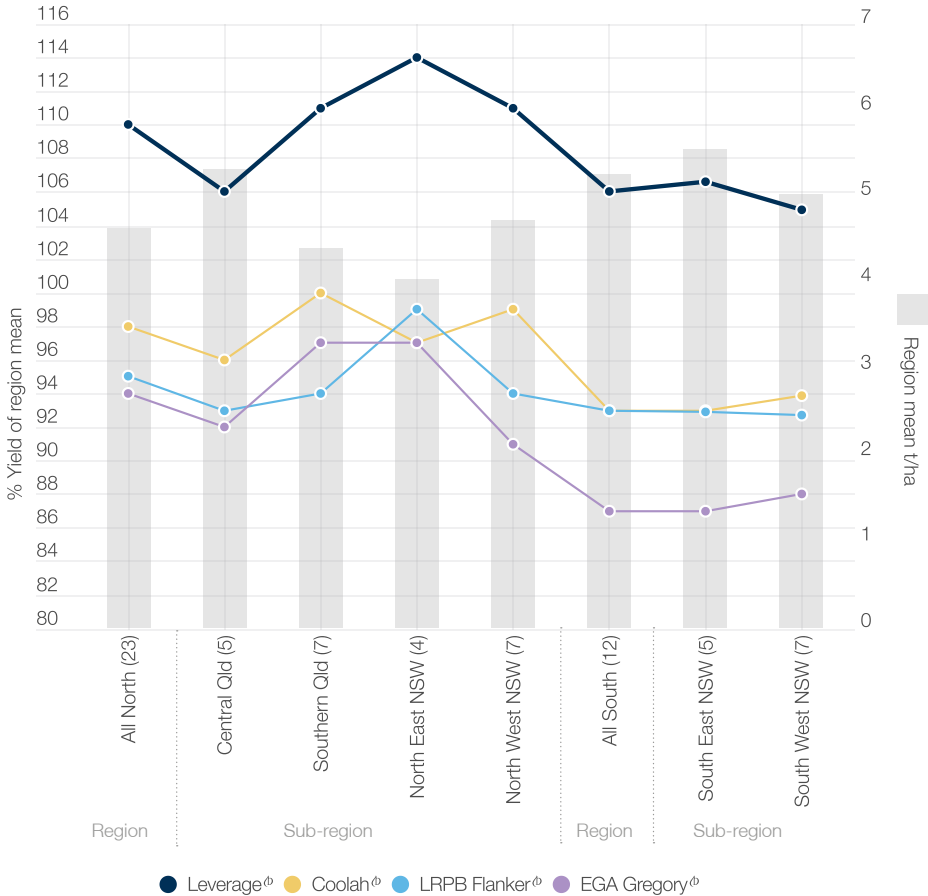
## PBR and EPR

Leverage<sup>ϕ</sup> is protected by Plant Breeders Rights (PBR) (denoted by the <sup>ϕ</sup> symbol) and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. Leverage<sup>ϕ</sup> growers will be subject to a Growers License Agreement that acknowledges that an EPR of \$4.00/tonne + GST must be paid on all production other than seed saved for planting.

## Grain yield

Data from the 2022 NVT early season series revealed Leverage<sup>ϕ</sup> as an exceptionally high yielding variety across NSW and Queensland environments. Figure 1 summarises the NVT regional yield performance with Leverage<sup>ϕ</sup> outyielding Coolah<sup>ϕ</sup>, LRPB Flanker<sup>ϕ</sup> and EGA Gregory<sup>ϕ</sup> by 10% to 17%.

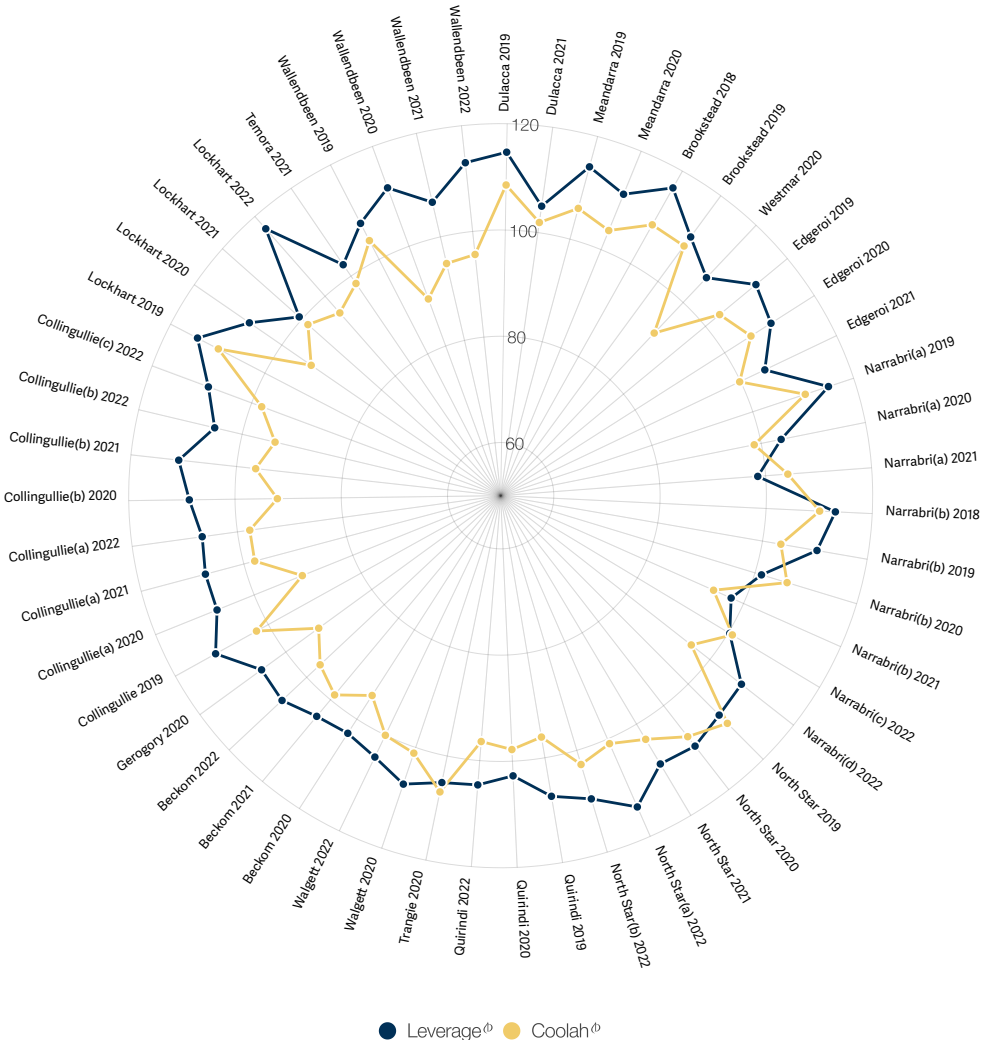
Figure 1. Predicted grain yield of Leverage<sup>ϕ</sup> versus comparators



Source: NVT Long Term Yield Reporter, 2022 region results  
 ( ) Total number of trials per region

Data from five years of AGT trials, across a range of locations in NSW and Queensland (including drier seasons in 2018 and 2019) demonstrate the consistent advantage that Leverage<sup>ϕ</sup> has over Coolah<sup>ϕ</sup>, the best performing of the “EGA Gregory<sup>ϕ</sup> types”. Leverage<sup>ϕ</sup> produced a higher yield than Coolah<sup>ϕ</sup> in 46 out of the 51 yield evaluation trials that were analysed.

Figure 2. Grain yield comparison between Leverage<sup>ϕ</sup> and Coolah<sup>ϕ</sup> - AGT individual site analysis

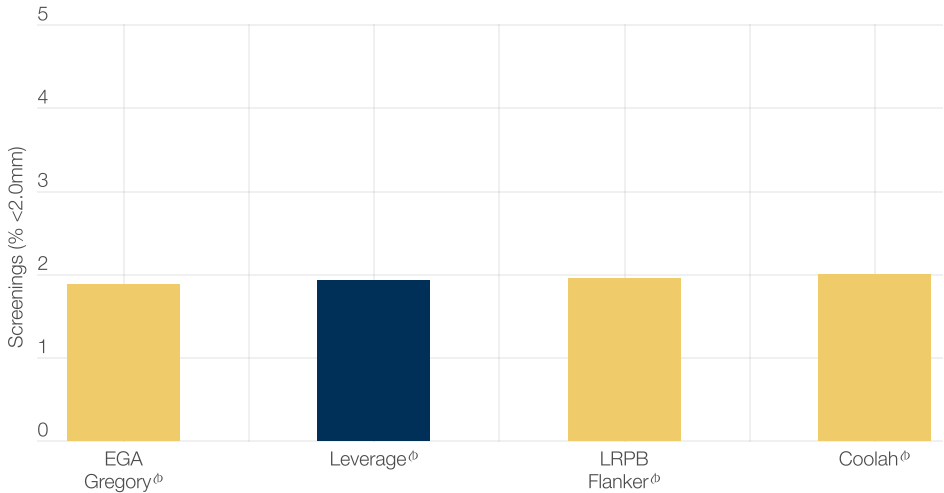


Source: AGT individual site analysis, 51 sites in NSW and Queensland from 2018 to 2022

## Physical grain quality

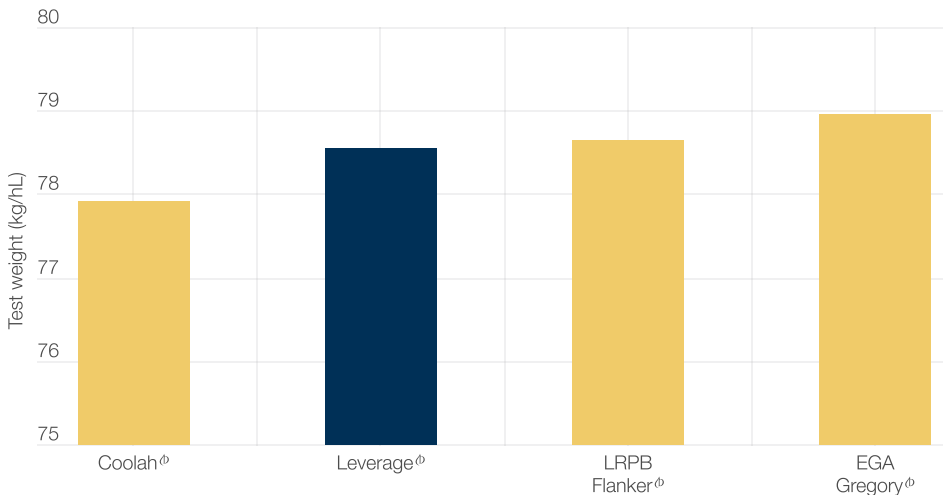
Leverage<sup>®</sup> has a very good physical grain package, with an APH quality classification. NVT data from NSW and Queensland trials in 2022 shows that it has low levels of screenings (Figure 3) and good test weight (Figure 4).

Figure 3. Screenings comparisons



Source: NVT early season trial series 2022 (35 sites across NSW/QLD)

Figure 4. Test weight comparisons

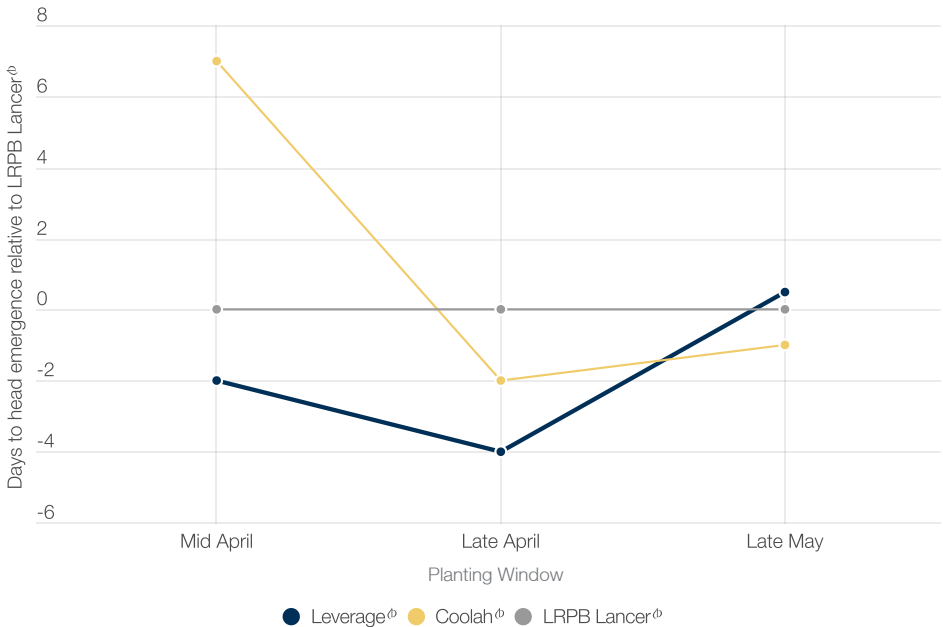


Source: NVT early season trial series 2022 (35 sites across NSW/QLD)

## Maturity

Leverage<sup>ϕ</sup> is a mid-slow maturing spring wheat. Tested at Narrabri, NSW, Leverage<sup>ϕ</sup> has been quicker to mature than Coolah<sup>ϕ</sup> when sown mid April, but similar to Coolah<sup>ϕ</sup> when planted in May.

Figure 5. Days to head emergence of Leverage<sup>ϕ</sup> and Coolah<sup>ϕ</sup> relative to LRPB Lancer<sup>ϕ</sup>

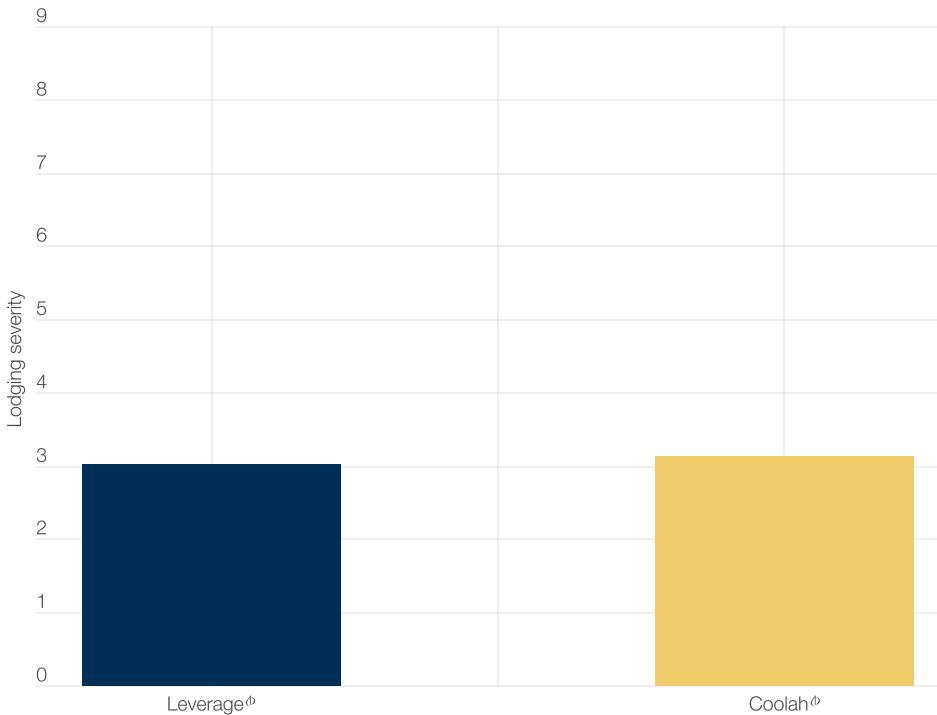


Source: AGT Narrabri phenology observation trials, 2021 and 2022

## Lodging & plant height

Although closely related to Coolah<sup>ϕ</sup>, Leverage<sup>ϕ</sup> is slightly shorter in plant height and has a similar resistance to lodging.

Figure 6. Standability of Leverage<sup>ϕ</sup> versus Coolah<sup>ϕ</sup>



Source: AGT early season trials, 10 sites in 2022 (0 = erect, 9 = fully lodged).



## Disease ratings:

Leverage<sup>Ⓛ</sup> is a variety with a good disease resistance and tolerance base, with a very attractive MRMS rating to yellow leaf spot.

*Table 1. Disease ratings for selected varieties.*

	Leverage <sup>Ⓛ</sup>	Coolah <sup>Ⓛ</sup>	EGA Gregory <sup>Ⓛ</sup>	LRPB Flanker <sup>Ⓛ</sup>
Stem Rust	MR*	MR	MR	MR
Stripe Rust	MRMS*	MSS	MS	MRMS
Leaf Rust	RMR*	RMR	RMR#	RMR#
Yellow Leaf Spot	MRMS*	MSS	S	MSS
Septoria <i>Tritici</i> Blotch	S*	MSS	MSS	MSS
Crown Rot	NA	MSS	S	MSS
RLN ( <i>P. thornei</i> ) tolerance	NA	MT	MT	MT

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

NA Not Available

\* Provisional rating

# May be more susceptible to alternate pathotypes

Source: NVT consensus ratings 2022



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Disclaimer: The information contained in this brochure is based on knowledge and understanding at the time of writing. Growers should be aware of the need to regularly consult with their advisors on local conditions and currency of information.