AGT-Kudos

- Excellent alternative to LRPB Lancer(Ф)
- Significant increase in profitability relative to LRPB Lancer(Ф)
- Very high yield, particularly in early sown trials
- Very good yield performance in the presence of crown rot
- Moderately short plant type, with very good lodging tolerance
- APH quality classification with high test weights and low screenings

Breeder's comments

Northern growers looking to increase profitability should look no further than new variety AGT-Kudos$^{\Phi}$.

AGT-Kudos$^{\Phi}$ is regarded as an excellent replacement for widely grown variety LRPB Lancer$^{\Phi}$, offering vast improvements in yield and profitability, but with similar maturity, plant type and physical grain quality characteristics.

AGT-Kudos$^{\Phi}$ will also be compared to newly released Sundancer$^{\Phi}$. NVT data suggests that AGT-Kudos$^{\Phi}$ holds a yield advantage over Sundancer$^{\Phi}$ when sown in early trials, while Sundancer$^{\Phi}$ has a slight advantage when sown in the main season planting window. Agronomically, AGT-Kudos$^{\Phi}$ has better test weight, sprouting tolerance and lodging tolerance than Sundancer$^{\Phi}$.

Importantly for northern growers, AGT-Kudos$^{\Phi}$ has been shown to perform in the presence of crown rot, maintaining its yield advantage over LRPB Lancer$^{\Phi}$ when crown rot is present, and increasing its advantage over Sundancer$^{\Phi}$.

A well-rounded variety for late April/early May plantings in the north, AGT-Kudos$^{\Phi}$ is set to attract a large following with growers who are looking for the next step in profitability.

AGT-Kudos$^{\Phi}$

Table 1. Specifications

Background

Tested as	SUN1232H
Released	2025
EPR rate	$4.10/tonne + GST

Disease

Stem Rust resistance*	RMR (P)
Stripe Rust resistance*	MRMS (P)
Leaf Rust resistance*	MRMS (P)
Yellow Leaf Spot resistance*	MSS (P)
Septoria Tritici Blotch resistance*	S (P)
Pratylenchus Thornei resistance*	NA
Pratylenchus Thornei tolerance*	NA
Crown Rot resistance*	NA

Plant Characteristics

Maturity speed^	Mid-slow
Maturity habit^	Spring
Sowing window^	Early & Main
Novel herbicide tolerance^	None (conventional tolerance)
Head type^	Awned
Plant height^	Moderately short
Coleoptile length^	Short
Lodging tolerance^	MT

Abiotic Stress

Boron tolerance^	Does not carry tolerance gene
Acid/aluminium tolerance^	Does not carry tolerance gene

Grain Quality

Quality classification	APH
Grain colour	White
Screenings level^	Low
Test weight^	High
Sprouting tolerance^°	MII
Black Point resistance*	NA

Legend

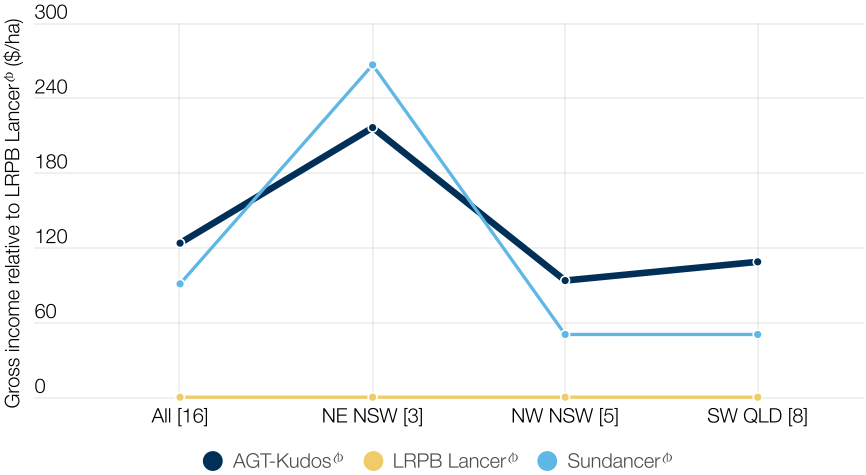
R	Resistant
MR	Moderately Resistant
MS	Moderately Susceptible
S	Susceptible
VS	Very Susceptible
T	Tolerant
MT	Moderately Tolerant
MI	Moderately Intolerant
I	Intolerant
VI	Very Intolerant
(P)	Provisional rating
NA	Not Available
/	Pathotype differences
-	Range
,	Mixed phenotype
#	May be more susceptible 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

Gross Income

A financial analysis of the performance of AGT-Kudos$^{\Phi}$ in early sown NVT trials in the northern region shows that farmers can produce much higher returns when choosing to grow AGT-Kudos$^{\Phi}$ instead of LRPB Lancer$^{\Phi}$. Over-all, in this dataset AGT-Kudos$^{\Phi}$ returned an extra $124 per hectare than LRPB Lancer$^{\Phi}$, and $33 per hectare more than Sundancer$^{\Phi}$.

When multiplied out to paddock scale, a significant increase in over-all business profit may be achieved by simply switching varieties to AGT-Kudos$^{\Phi}$ (Figure 1).

Figure 1. Profitability improvement of AGT-Kudos$^{\Phi}$ over LRPB Lancer$^{\Phi}$



Source: 2024 NVT early season trial data from the northern region. Includes single site data for grain yield, protein content, screenings level and test weight. Grain pricing data was sourced from Profarmer for delivery to the Brisbane Port.

[ ] Number of sites where all varieties were present in the dataset

How was this analysis done?

Single site NVT data for protein content, screenings and test weight were used to determine the grade that the grain from a variety at that site would have been received into, taking into account the variety's classification in that region. Sites where all varieties were present were included in the dataset.

Grain prices for each grade were obtained from Profarmer for the period 2018-2023 in the relevant port zone and the average grade price was used to calculate value of the grain. This grain value was multiplied by the NVT yield performance at that site (single site yield data was also used) to determine the gross value of each variety at each site.

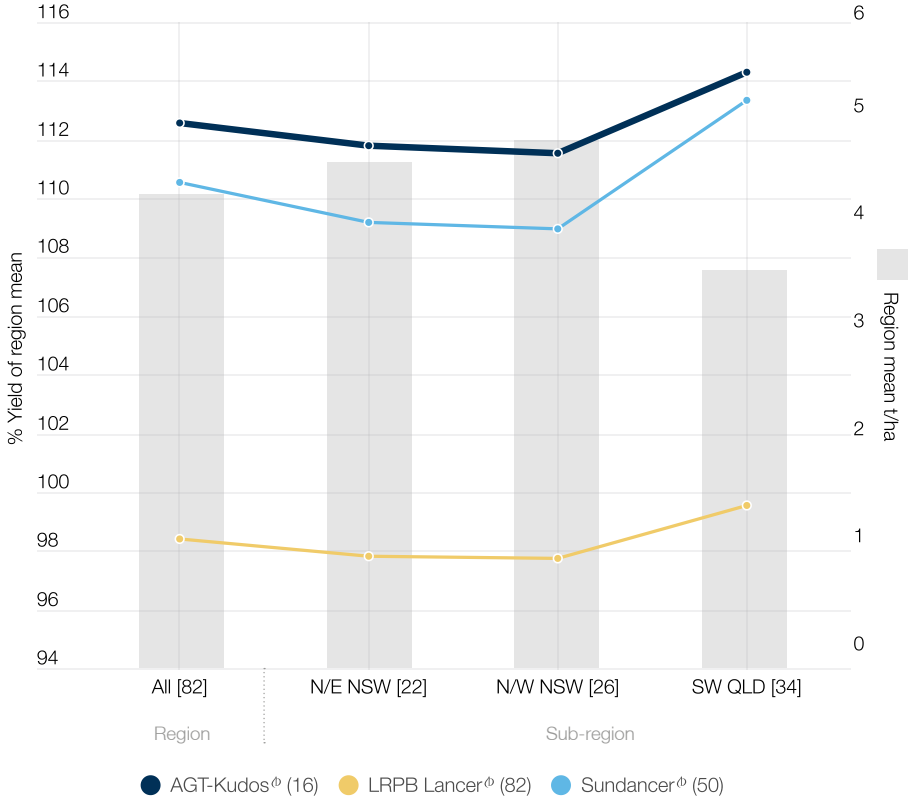
Grain yield

NVT long term yield predictions show that AGT-Kudos$^{\Phi}$ is particularly well suited to early planting opportunities, slightly out-yielding Sundancer$^{\Phi}$ (Figure 2).

However, when planted in the main season sowing window, Sundancer$^{\Phi}$ has had a small advantage over AGT-Kudos$^{\Phi}$ (Figure 3).

In both instances though, AGT-Kudos$^{\Phi}$ has delivered far superior yields than widely grown variety LRPB Lancer$^{\Phi}$, offering around 14% higher yields when sown early, and 7% higher yields when planted in the main sowing window.

Figure 2. Predicted grain yield of AGT-Kudos$^{\Phi}$ versus comparators across northern NSW/QLD - NVT early sown trials

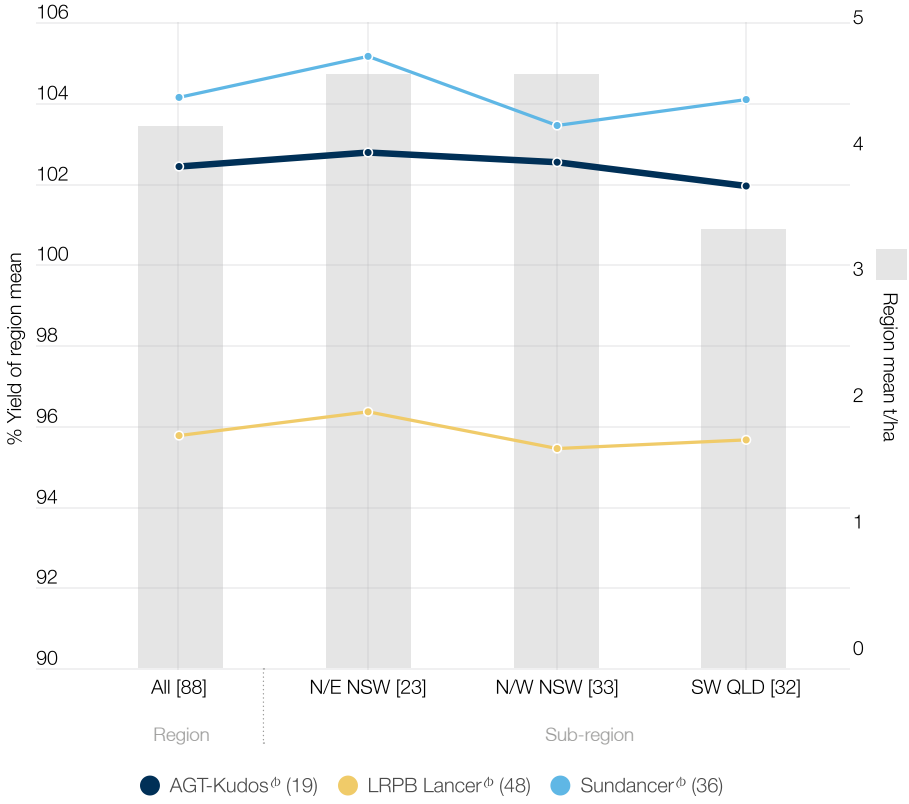


Source: NVT long term MET analysis, early sown trial series 2020-2024

[ ] : Total number of trials per region

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

Figure 3. Predicted grain yield of AGT-Kudos$^{\Phi}$ versus comparators across northern NSW/QLD - NVT main season trials



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

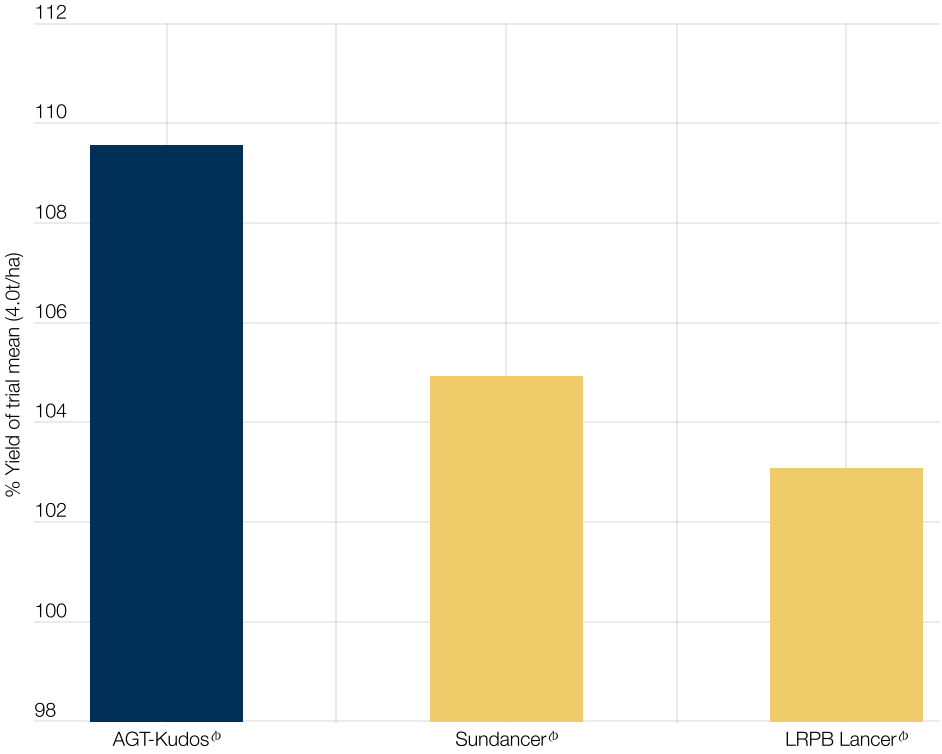
[ ] : Total number of trials per region

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

Grain yield in the presence of crown rot

Long term crown rot trials show that AGT-Kudos$^{\Phi}$ has demonstrated an ability to maintain yield in the presence of crown rot, offering higher yields than both Sundancer$^{\Phi}$ and LRPB Lancer$^{\Phi}$ (Figure 4).

Figure 4. Grain yield of AGT-Kudos$^{\Phi}$ versus comparators in AGT crown rot yield evaluation trials



Source: AGT MET analysis, crown rot yield trials, Narrabri NSW 2020, 2021, 2023, 2024

Note: Average PreDicta B® level recorded at trial locations across years = 4.6 (log Fusarium DNA/g soil). A level above 2.0 is considered high.

Variety comparisons

AGT-Kudos$^{\phi}$ has an APH quality classification in northern NSW/QLD and produces large grain with high test weights, similar to LRPB Lancer$^{\phi}$ with better test weight and sprouting tolerance than Sundancer$^{\phi}$.

AGT-Kudos$^{\phi}$ has a short plant type with good lodging tolerance, and matures at a similar time to LRPB Lancer$^{\phi}$.

Table 2. Variety comparisons

		AGT-Kudos$^{\phi}$	LRPB Lancer$^{\phi}$	Sundancer$^{\phi}$
Disease	Stem Rust resistance*	RMR (P)	R	MR
	Stripe Rust resistance*	MRMS (P)	RMR	MR
	Leaf Rust resistance*	MRMS (P)	RMR	RMR
	Yellow Leaf Spot resistance*	MSS (P)	MS	MS
	Septoria Tritici Blotch resistance*	S (P)	MSS	MSS
	Pratylenchus Thornei resistance*	NA	MS	MS
	Pratylenchus Thornei tolerance*	NA	TMT	MTMI
	Crown Rot resistance*	NA	MSS	MSS
Plant Characteristics	Maturity speed^	Mid-slow	Mid-slow	Mid-slow
	Maturity habit^	Spring	Spring	Spring
	Sowing window^	Early & Main	Early & Main	Early & Main
	Novel herbicide tolerance^	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)
	Head type^	Awned	Awned	Awned
	Plant height^	Moderately short	Short to moderately short	Moderate
	Coleoptile length^	Short	Moderate	Moderate
	Lodging tolerance^	MT	MTMI	MTMI
Abiotic Stress	Boron tolerance^	Does not carry tolerance gene	Does not carry tolerance gene	Does not carry tolerance gene
	Acid/aluminium tolerance^	Does not carry tolerance gene	Does not carry tolerance gene	Does not carry tolerance gene
Grain Quality	Quality classification	APH	APH	APH
	Grain colour	White	White	White
	Screenings level^	Low	Low	Low
	Test weight^	High	High	Moderate
	Sprouting tolerance^°	MII	MII	I
	Black Point resistance*	NA	MRMS	S

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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.

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