Intrigue[Φ]

- High yields relative to other varieties in moisture stressed situations or in the presence of crown rot
- Good stem, stripe and leaf rust resistance
- Good physical grain quality package, with low screenings and very high test weights
- Mid-slow maturity, maintains yield potential across planting dates
- APH quality classification

Breeder's comments

Crown rot is one of the most difficult diseases for growers to manage in the northern region. One of our challenges in breeding has been to offer varieties that maintain yield in the presence of crown rot. Intrigue$^{\Phi}$ does just that, providing market leading yieds in crown rot affected and moisture stressed environments.

AGT trials at Narrabri under high crown rot pressure has shown Intrigue$^{\Phi}$ as the standout performer relative to other commonly grown varieties in the mid-slow maturity window. Intrigue$^{\Phi}$ has also performed consistently well across both early sown and main seasn NVT's throughout the northern region, highlighting its wide adaptation and planting window. However, its very best performance has been in tougher, lower yielding situations.

Intrigue$^{\Phi}$ is a perfect complement to the newly released varieties Leverage$^{\Phi}$ and Sundancer$^{\Phi}$, with Sundancer$^{\Phi}$ a direct LRPB Lancer$^{\Phi}$ replacement with wide adaptation, and Leverage$^{\Phi}$ being a 'Gregory' type with excellent top-end yield.

We view Intrigue$^{\Phi}$ as a higher yielding alternative to LRPB Lancer$^{\Phi}$, LRPB Raider$^{\Phi}$ and LRPB Stealth$^{\Phi}$, particularly in tougher environments. Intrigue$^{\Phi}$ has an APH quality classification in northern NSW/QLD, with very high test weight and low screenings, a tall plant type, and a very good disease resistance package; with performance in the presence of crown rot its major feature.

Intrigue$^{\phi}$

Table 1. Specifications

Background

Tested as	SUN1081A
Released	2024
EPR rate	$4.00/tonne + GST

Disease

Stem Rust resistance*	MR
Stripe Rust resistance*	MR
Leaf Rust resistance*	MR
Yellow Leaf Spot resistance*	MS
Septoria Tritici Blotch resistance*	MSS
Pratylenchus Thornei resistance*	MRMS
Pratylenchus Thornei tolerance*	TMT
Crown Rot resistance*	MSS

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 tall to tall
Coleoptile length^	Moderate
Lodging tolerance^	MI

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^	Very high
Sprouting tolerance^°	MII
Black Point resistance*	S

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 in the presence of crown rot

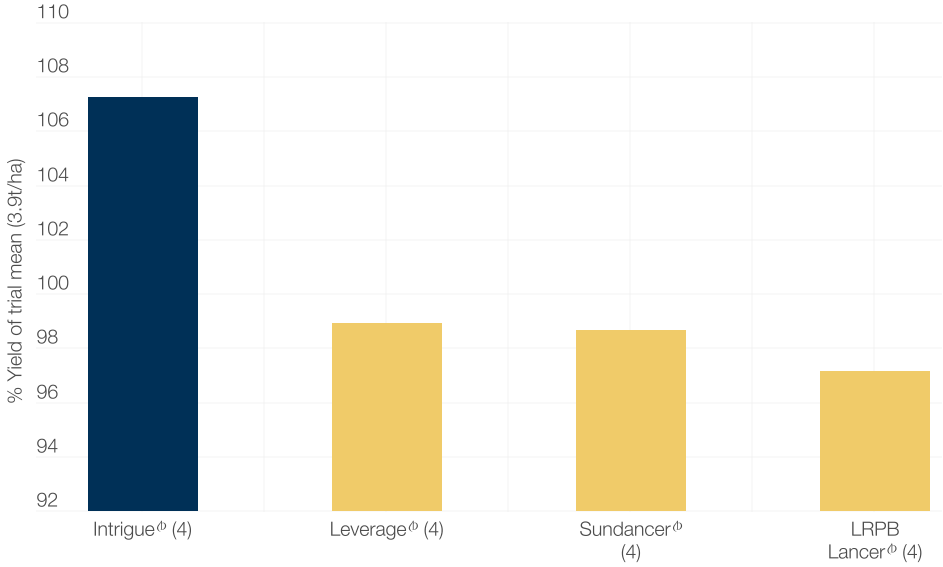
Long term crown rot trials show that Intrigue$^{\Phi}$ has demonstrated an ability to maintain yield in the presence of crown rot, and tolerance to terminal drought stress; offering a clear advantage over other varieties of a similar maturity (Figure 1).

Viewing early sown NVT data by yield-potential band, we see that in the low to medium range, Intrigue$^{\Phi}$ has enjoyed a yield advantage over competitors that have a similar maturity. In contrast, Leverage$^{\Phi}$ and Sundancer$^{\Phi}$ exceed Intrigue's$^{\Phi}$ performance in the >5t/ha yield band (Figure 2).

In early sown NVT trials, Intrigue$^{\Phi}$ has performed competitively relative to yield benchmarks Leverage$^{\Phi}$ and Sundancer$^{\Phi}$, and much higher than the widely grown LRPB Lancer$^{\Phi}$ (Figure 3).

While Intrigue$^{\Phi}$ has a mid-slow maturity, traditionally more suited to early season planting, it has outperformed other varieties with similar maturity in main season trials (Figure 4), confirming its wide adaptation and planting window.

Figure 1. Predicted grain yield of Intrigue$^{\Phi}$ versus comparators in the presence of high levels of crown rot



Source: AGT MET analysis, crown rot yield trials, Narrabri NSW 2019, 2020, 2021, 2023

( ) : Number of years of evaluation

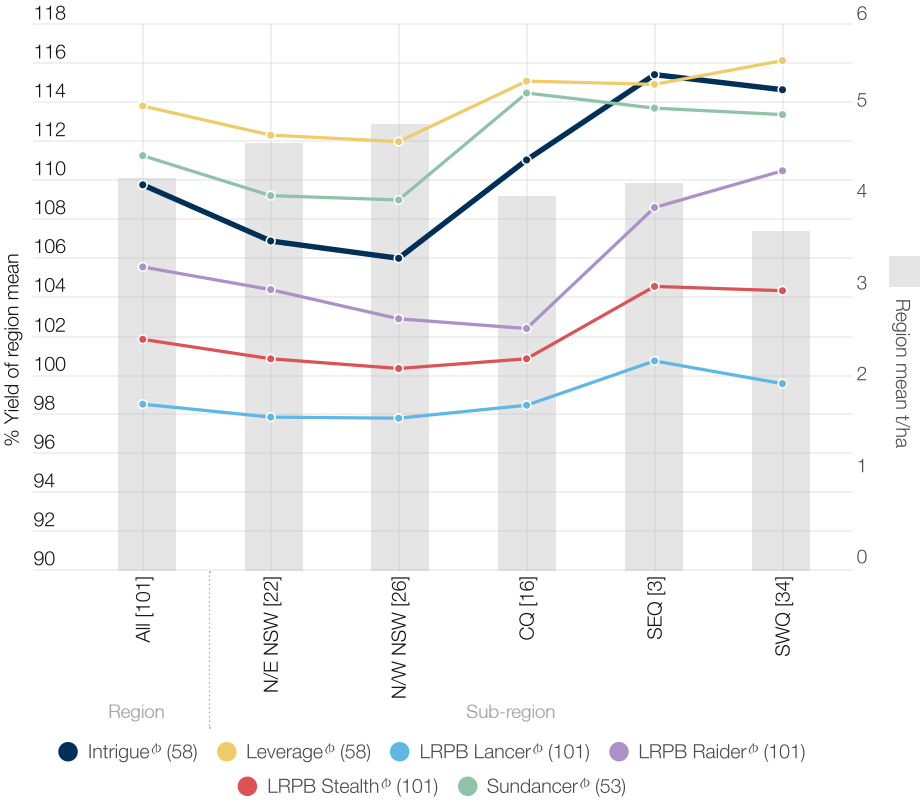
Note: Average PreDicta B® level recorded at trial locations across years = 4.6 (log Fusarium DNA/g soil). A level above 2.0 is considered high.

Grain yield

In early sown NVT trials, Intrigue$^{\Phi}$ has performed competitively relative to yield benchmarks Leverage$^{\Phi}$ and Sundancer$^{\Phi}$, and much higher than the widely grown LRPB Lancer$^{\Phi}$ (Figure 2).

While Intrigue$^{\Phi}$ has a mid-slow maturity, traditionally more suited to early season planting, it has again performed cometitively relative to other varieties with similar maturity in main season trials (Figure 3), confirming its wide adaptation and planting window. The advantage of Intrigue$^{\Phi}$ relative to similar maturing competitors is particularly evident in southern QLD main season trials.

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

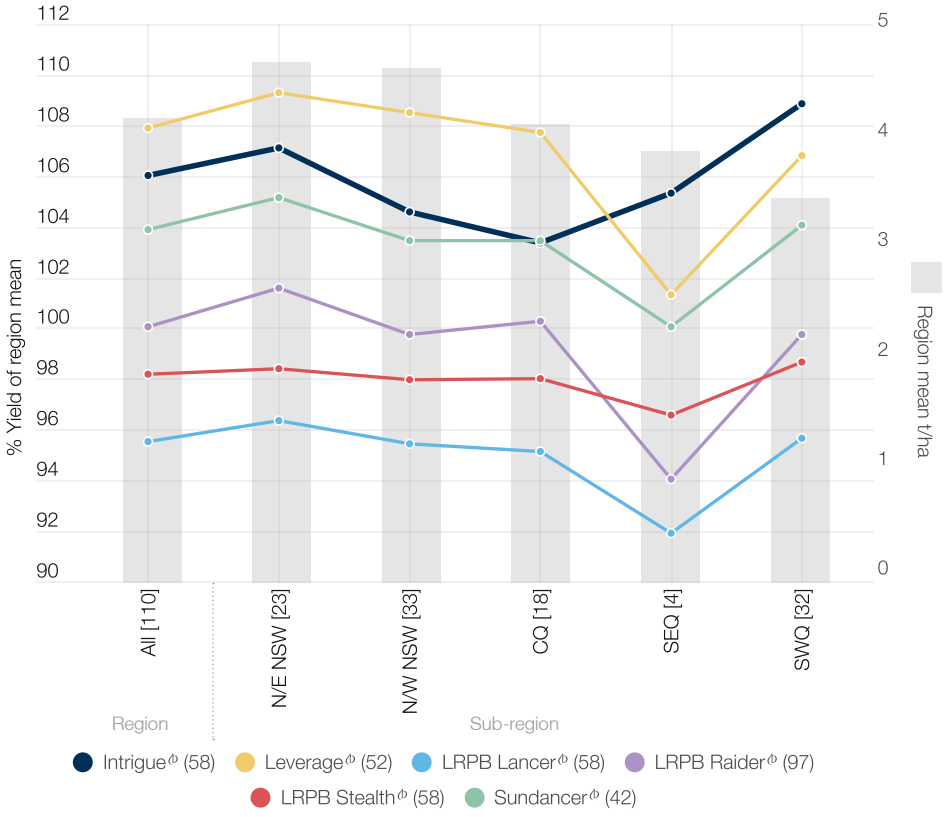


Source: NVT long term MET analysis, early sown trials 2020-2024

[ ]: Total number of trials per region

( ): Number of trials that each variety was present in across the northern NSW/QLD dataset [101]

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



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

[ ]: Total number of trials per region

( ): Number of trials that each variety was present in across the northern NSW/QLD dataset [110]

Variety comparisons

Intrigue$^{\Phi}$ has an APH quality classification with excellent physical grain quality. It has low screenings and class leading test weight.

Intrigue$^{\Phi}$ is a taller variety, perhaps one of the reasons for its adaptation to drought stress.

Table 2. Variety comparisons

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