

Ironbark[®]



Variety snapshot

- An excellent replacement for popular variety Beckom[Ⓟ]
- Derived from Beckom[Ⓟ]
- AH quality classification in southern NSW
- Improved yield and grain size compared to Beckom[Ⓟ]
- Improved stripe rust resistance compared to Beckom[Ⓟ]
- Similar maturity, plant height and canopy to Beckom[Ⓟ]
- Carries the major aluminium tolerance gene, which contributes to acid soil tolerance
- Very widely adapted, suited to most of southern NSW

Breeder's comments

Since its release in 2015, the wheat variety Beckom^ϕ has been a main season staple in southern NSW paddocks. Robust disease resistance (in particular stripe rust), wide adaptation across hostile soils, and consistently high performance have entrenched it as a go-to variety in the main season sowing window. We have built on the strengths of Beckom^ϕ with the release of its replacement, Ironbark^ϕ.

Ironbark^ϕ is derived from Beckom^ϕ and has inherited several of the major traits that have made Beckom^ϕ such a popular variety. Ironbark^ϕ maintains a compact plant canopy, similar maturity, and carries aluminium (acid) and boron tolerance genes. Ironbark^ϕ also has a number of improvements over Beckom^ϕ including better yield performance, larger grain size and therefore lower screenings losses, and an ability to maintain yield in high disease pressure situations. Ironbark^ϕ has improved disease resistance ratings for both stripe and leaf rust.

We believe that Ironbark^ϕ provides the next performance step for southern NSW growers who have benefited from growing its parent Beckom^ϕ, but are looking to achieve higher yields with lower risk. The overall package of Ironbark^ϕ provides growers with a logical replacement for Beckom^ϕ, offering a more profitable option.

Ironbark[®]

Table 1. Specifications

Background

Tested as	V14035-125
Released	2024
EPR rate	\$3.90/tonne + GST

Disease

Stem Rust resistance*	MRMS (P)
Stripe Rust resistance*	MR (P)
Leaf Rust resistance*	MRMS# (P)
Yellow Leaf Spot resistance*	MSS (P)
Powdery Mildew resistance*	MSS(P)
Septoria Tritici Blotch resistance*	S (P)
CCN resistance^	S (P)
Pratylenchus Neglectus resistance*	NA
Pratylenchus Neglectus tolerance*	NA
Pratylenchus Thornei resistance*	NA
Pratylenchus Thornei tolerance*	NA
Crown Rot resistance*	NA

Plant Characteristics

Maturity^	Mid
Maturity habit^	Spring
Sowing window^	Main & Late
Novel herbicide tolerance^	None (conventional tolerance)
Head type^	Awned

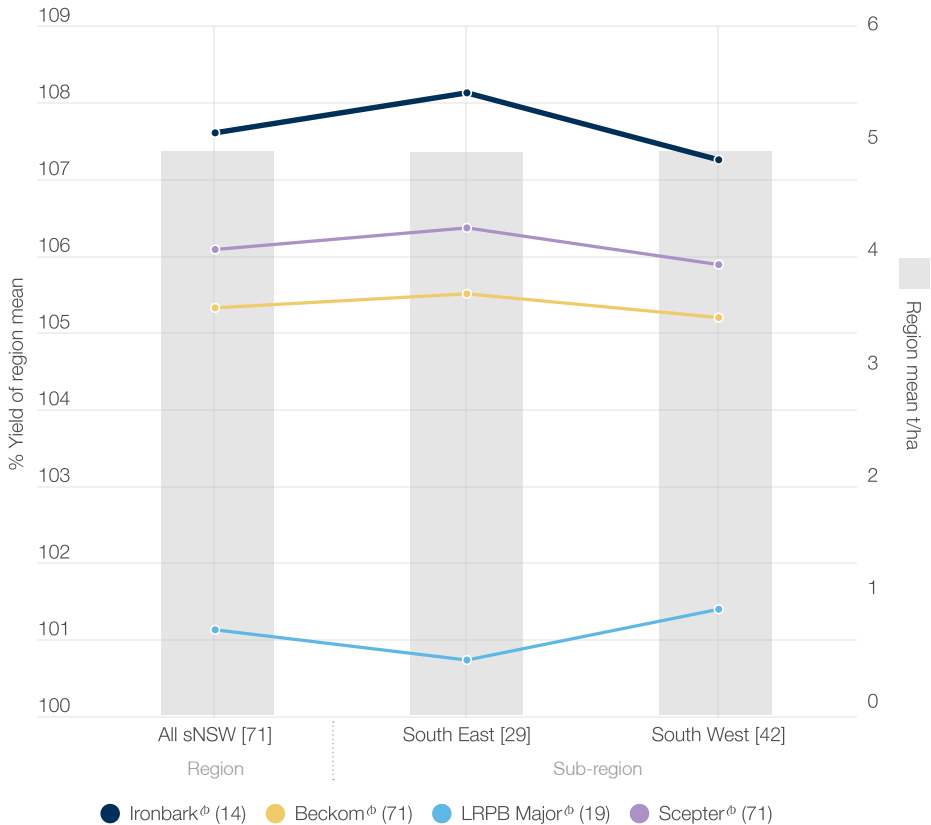
Grain Quality

Quality classification	AH
Grain colour^	White
Black Point resistance^	MRMS (P)

Grain yield

Ironbark[®] has performed strongly across southern NSW, consistently outperforming main season benchmarks Beckom[®] and Scepter[®], and substantially higher yielding than LRPB Major[®] in NVT trials (Figure 1); and yielding between Scepter[®] and Beckom[®] in AGT trials (Figure 2).

Figure 1. Predicted grain yield of Ironbark[®] versus comparators across southern NSW regions - NVT data



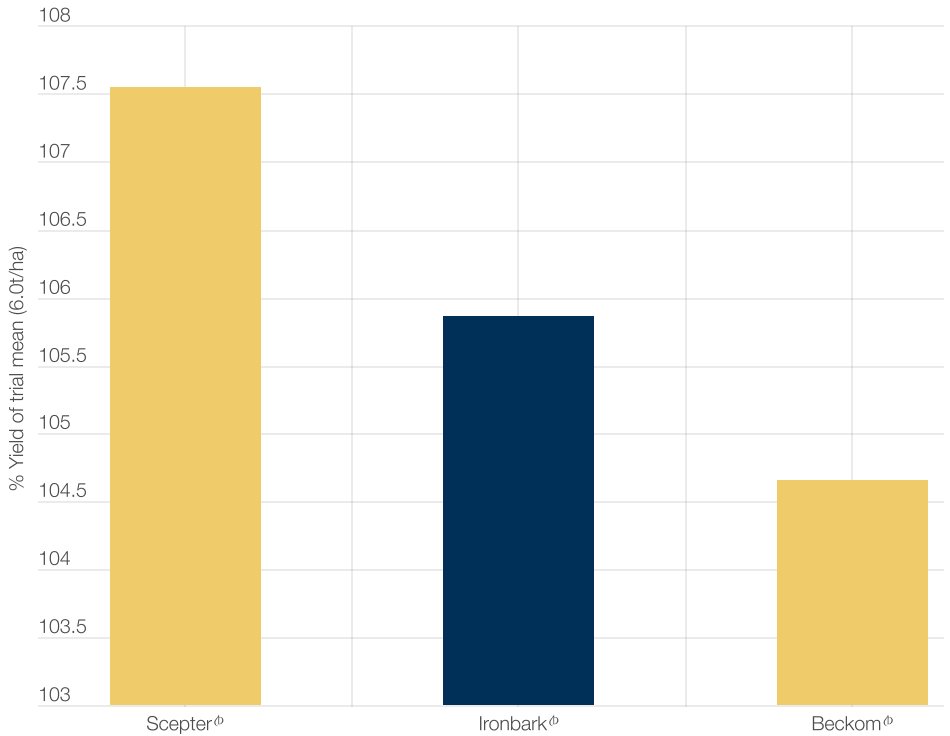
Source: NVT long term MET analysis, main season trial series 2019-2023

[]: Total number of trials per region

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

Grain yield

Figure 2. Predicted grain yield of Ironbark[®] versus comparators - AGT data

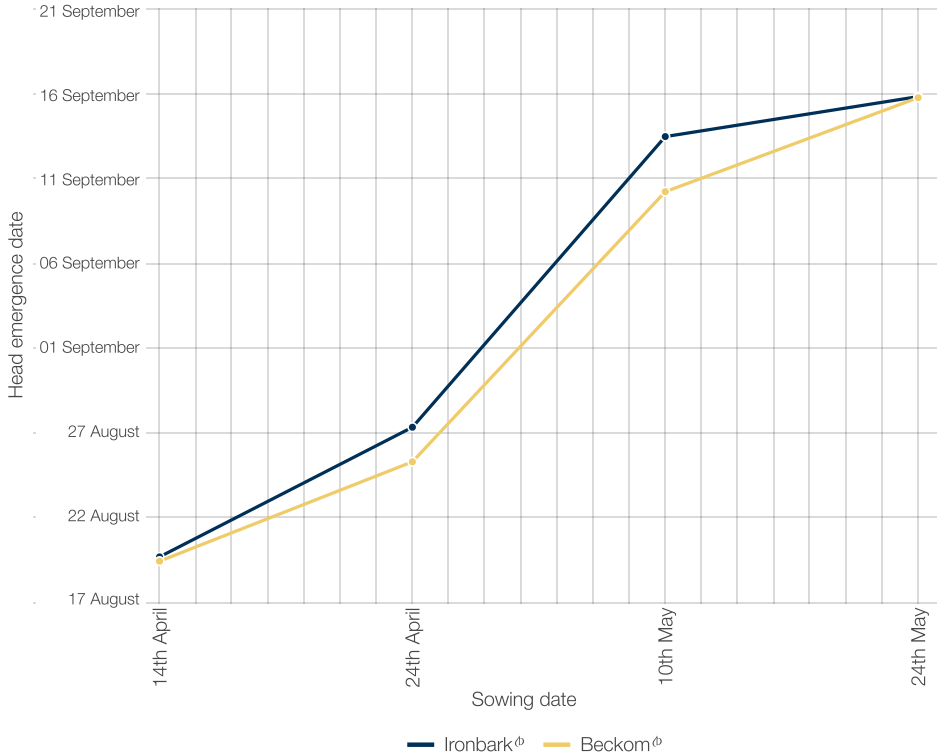


Source: AGT long term MET analysis, main season trial series 2019-2023 (35 trials across southern NSW)

Maturity

Ironbark[®] is a mid season maturing variety, reaching head emergence at a similar time to Beckom[®] across a range of sowing dates (Figure 3).

Figure 3. Head emergence of Ironbark[®] versus Beckom[®]

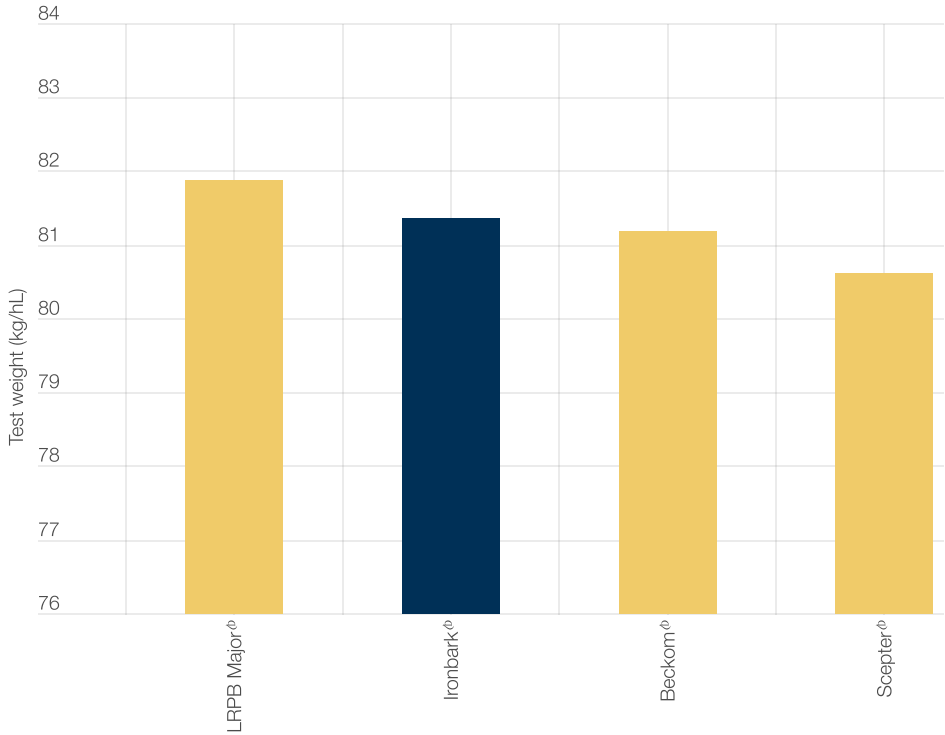


Source: AGT time of sowing trial, Collingullie NSW 2023

Grain quality

Ironbark[®] has an AH quality classification in southern NSW, and produces grain with good test weight and screenings levels.

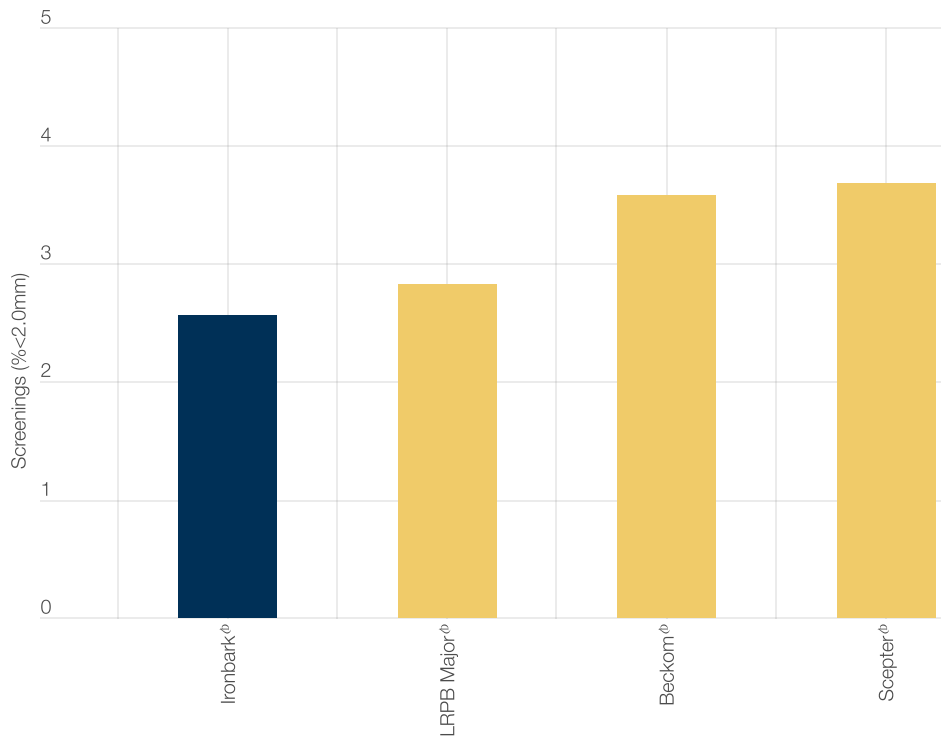
Figure 4. Test weight of Ironbark[®] versus comparators



Source: NVT main season trial series 2023, average of 14 sites in southern NSW where all varieties were present

Grain quality

Figure 5. Screenings of Ironbark[®] versus comparators



Source: NVT main season trial series 2023, average of 14 sites in southern NSW where all varieties were present

Disease

Ironbark[®] offers very good levels of resistance for stripe rust and useful levels of powdery mildew resistance.

Table 2. Variety comparisons

	Ironbark [®]	Beckom [®]	LRPB Major [®]	Scepter [®]
Quality Classification	AH	AH	AH	AH
Maturity [^]	Mid	Mid	Mid-slow	Mid
Stem Rust resistance*	MRMS (P)	MRMS	MRMS	MRMS
Stripe Rust resistance*	MR (P)	MRMS	MRMS	MSS
Leaf Rust resistance*	MRMS# (P)	MSS	MR#	MSS
Yellow Leaf Spot resistance*	MSS (P)	MSS	MS	MRMS
Powdery Mildew resistance*	MSS (P)	S	MS	SVS
Septoria Tritici Blotch resistance*	S (P)	S	MSS	S
CCN resistance*	S (P) [^]	R	MRMS (P)	MRMS
Pratylenchus Neglectus resistance*	NA	S	MSS	S
Pratylenchus Neglectus tolerance*	NA	MTMI	NA	MTMI
Pratylenchus Thornei resistance*	NA	MSS	MSS	MSS
Pratylenchus Thornei tolerance*	NA	TMT	MTMI	MT
Crown Rot resistance*	NA	S	S	MSS
Black Point resistance*	MRMS (P) [^]	MRMS	MRMS (P)	MS

Legend

R	Resistant	MI	Moderately Intolerant	,	Mixed phenotype
MR	Moderately Resistant	I	Intolerant	#	May be more susceptible to alternate pathotypes
MS	Moderately Susceptible	VI	Very Intolerant	*	NVT consensus ratings 2024
S	Susceptible	(P)	Provisional rating	^	AGT ratings/data interpretation
VS	Very Susceptible	NA	Not Available		
T	Tolerant	/	Pathotype differences		
MT	Moderately Tolerant	-	Range		



Seed Availability

Please contact an AGT Affiliate or your local retailer for seed. Consult the AGT website for AGT Affiliate contact details (agtbreeding.com.au/sourcing-seed/agt-affiliates).

AGT varieties can be traded between growers upon the completion of a License Agreement as part of AGT's Seed Sharing™ initiative (agtbreeding.com.au/sourcing-seed/seed-sharing).

PRB 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

James Whiteley, Variety Support Manager southern NSW:	0419 840 589
AGT End Point Royalty team:	(08) 7111 0201
agtbreeding.com.au	

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. Wherever possible, independent NVT data has been used in this publication. In the absence of NVT data, Predicted grain yield has been provided.