

Brighton[®]



Variety snapshot

- Dual purpose winter wheat, suitable for grazing and grain production
- A higher yielding alternative to Illabo^Φ and DS Bennett^Φ
- Mid winter maturity, slightly quicker than Illabo^Φ
- Improved test weight compared with Illabo^Φ
- Improved yellow spot resistance over Illabo^Φ
- More susceptible to powdery mildew than Illabo^Φ
- AH quality classification in WA

Breeder's comments

Dual purpose, graze and grain wheat varieties have traditionally been very valuable to mixed farmers, providing more than one opportunity to generate income throughout the season. The use of dual purpose varieties has continued to gain in popularity, where growers are able to help fill the early winter feed gap without missing out on grain income at the end of the season.

We started a winter wheat breeding program at Wagga Wagga in 2014 in acknowledgement of the need for better performing long season and dual purpose varieties, with Illabo[®] being a popular release from this program. Illabo[®] has been a success story, offering mixed farmers a large step up in performance over the mainstay variety EGA Wedgetail[®], and finding a following among many WA growers.

Our newest variety in this space, Brighton[®], is poised to offer even more advancements in productivity, offering improvements in yield, yellow spot resistance and physical grain quality over Illabo[®].

Brighton[®] also offers improved yellow spot resistance over Illabo[®], however is more susceptible to powdery mildew.

Brighton[®] is a mid maturing winter wheat, reaching head emergence slightly faster than Illabo[®] across a range of sowing dates.

Brighton[®] offers a compact plant type and carries aluminium (acid soils) tolerance genes. Like some other varieties, Brighton[®] may express physiological leaf yellowing throughout winter; however will grow out of these symptoms in spring.

To maximise grain only yield, Brighton[®] appears ideally suited to early-mid April sowing in the high yield environments of the Great Southern and South Coast, and where early moisture is available in lower rainfall environments of the eastern wheatbelt.

Table 1. Specifications

Background

Tested as	V14051-172
Released	2024
EPR rate	\$4.10/tonne + GST

Disease

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

Plant Characteristics

Maturity speed^	Mid
Maturity habit^	Winter
Sowing window^	Early
Novel herbicide tolerance^	None (conventional tolerance)
Head type^	Awned
Plant height^	Short to moderately short
Coleoptile length^	Moderate
Lodging tolerance^	MT

Abiotic Stress

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

Grain Quality

Quality classification	AH
Grain colour	White
Screenings level^	Low
Test weight^	High
Sprouting tolerance^o	I
Black Point resistance*	MS

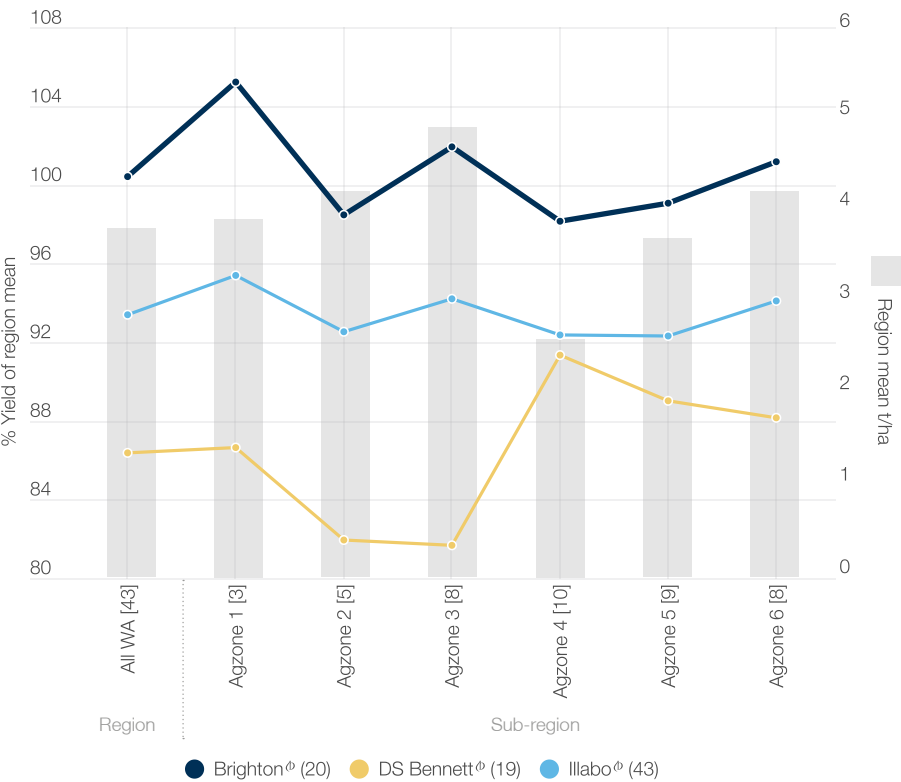
Legend

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

Grain yield

In long term NVT early sown trials, Brighton^ϕ has produced higher levels of grain yield than Illabo^ϕ in most environments, and substantially higher than DS Bennett^ϕ (Figure 1).

Figure 1. Predicted grain yield of Brighton^ϕ versus comparators across WA regions



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

Variety comparisons

Brighton[®] has an AH quality classification in WA. Brighton[®] has an excellent physical grain quality package, offering a substantial test weight improvement over main comparator Illabo[®].

Brighton[®] offers a robust disease resistance package, including an improvement in yellow spot resistance compared with Illabo[®].

Table 2. Variety comparisons

	Brighton [®]	DS Bennett [®]	Illabo [®]
Disease	Stem Rust resistance*	MRMS	MS
	Stripe Rust resistance*	RMR	NA
	Leaf Rust resistance*	S	SVS
	Yellow Spot resistance*	MRMS	MRMS
	Powdery Mildew resistance*	MSS	NA
	Septoria Nodorum Blotch (Glume) resistance*	MR	NA
	Septoria Nodorum Blotch (Leaf) resistance*	MR	NA
Plant Characteristics	Maturity speed^	Mid	Slow
	Maturity habit^	Winter	Winter
	Sowing window^	Early	Early
	Novel herbicide tolerance^	None (conventional tolerance)	None (conventional tolerance)
	Head type^	Awned	Awnless
	Plant height^	Short to moderately short	Tall
	Coleoptile length^	Moderate	NA
Abiotic Stress	Lodging tolerance^	MT	NA
	Boron tolerance^	Does not carry tolerance gene	NA
	Acid/aluminium tolerance^	Carries tolerance gene	Does not carry tolerance gene
Grain Quality	Quality classification	AH	FEED
	Grain colour	White	White
	Screenings level^	Low	NA
	Test weight^	High	NA
	Sprouting tolerance^o	I	NA
	Black Point resistance*	MS	MSS



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 [®] 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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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 absense of NVT data, AGT data has been provided.