

Illabo[®]



- High yielding awned winter wheat
- Suitable option for either graze and grain recovery or early sowing in a grain only system
- AH quality classification in Western Australia
- A higher yielding alternative to EGA Wedgetail[Ⓛ] and LRPB Kittyhawk[Ⓛ]
- Quick-mid winter maturity, 2-3 days quicker than EGA Wedgetail[Ⓛ]
- Improved resistance to stripe rust and black point over EGA Wedgetail[Ⓛ]
- Excellent powdery mildew resistance

Breeder's comments

Today, Western Australian growers are seeking safe and reliable early sowing options to take advantage of early moisture, manage frost risk, and/or fill the autumn feed gap in mixed farming enterprises. The introduction of a winter wheat variety provides growers with an opportunity to manage these requirements within and across their farming systems.

Released in 2018, Illabo[®] was the first variety to be released from our dedicated winter wheat breeding program in Wagga Wagga. Illabo[®] is a quick-mid maturing, AH quality winter wheat that provides a safe agronomic package to take advantage of early sowing opportunities.

Winter wheat varieties, including Illabo[®], require a period of cold temperatures (vernalisation) before moving from vegetative to reproductive growth. This maturity trigger allows Illabo[®] to be sown early in the cropping program without bringing the reproductive window forward. Early sowing and long vegetative periods of winter wheats such as Illabo[®] allows for the production of valuable dry matter to provide ground cover and fill early feed gaps.

To maximise grain only yield, Illabo[®] appears ideally suited to an early-mid April sowing in high yielding environments of the Great Southern and South Coast, and where early moisture is available in low rainfall environments of the eastern wheatbelt. When sown in early-mid April, Illabo[®] has the potential to deliver yields comparable to timely sown spring varieties.

Seed availability

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

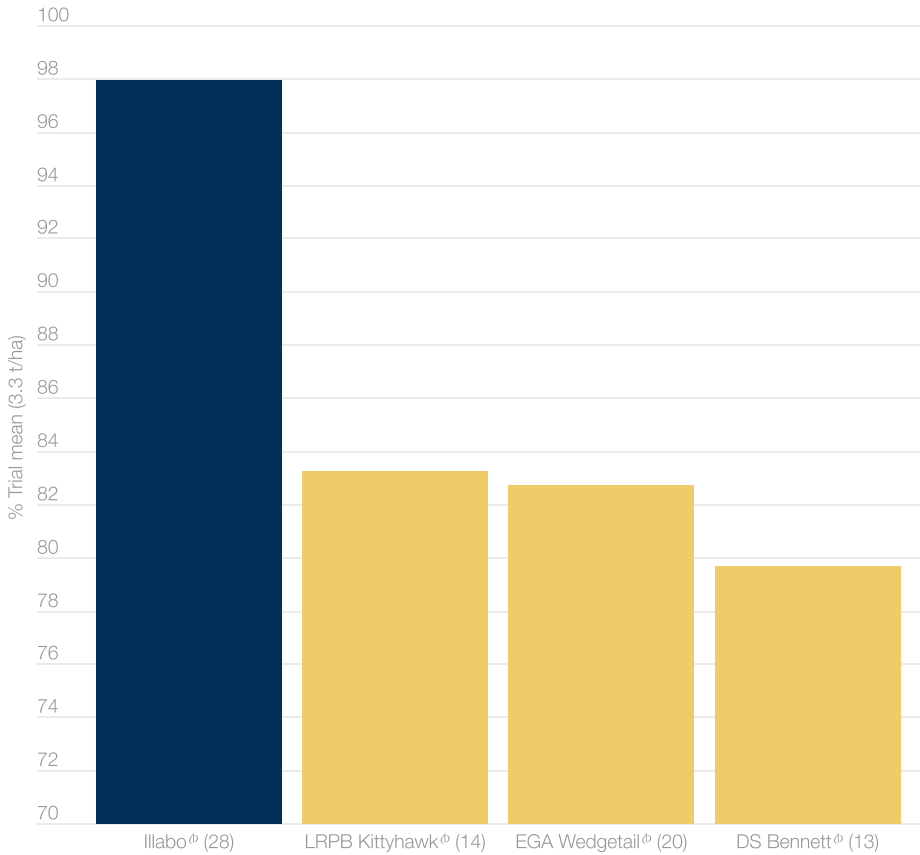
PBR and EPR

Illabo[®] is protected by Plant Breeders Rights (PBR) (denoted by the [®] symbol) and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. Illabo[®] growers will be subject to a Growers License Agreement that acknowledges that an EPR of \$3.50/tonne + GST must be paid on all production other than seed saved for planting.

Grain yield

In NVT early sown grain only trials, Illabo^ϕ has displayed a significant yield advantage over mid maturing winter varieties LRPB Kittyhawk^ϕ and EGA Wedgetail^ϕ, and slow winter variety DS Bennett^ϕ (Figure 1).

Figure 1. Grain yield of Illabo^ϕ versus comparators



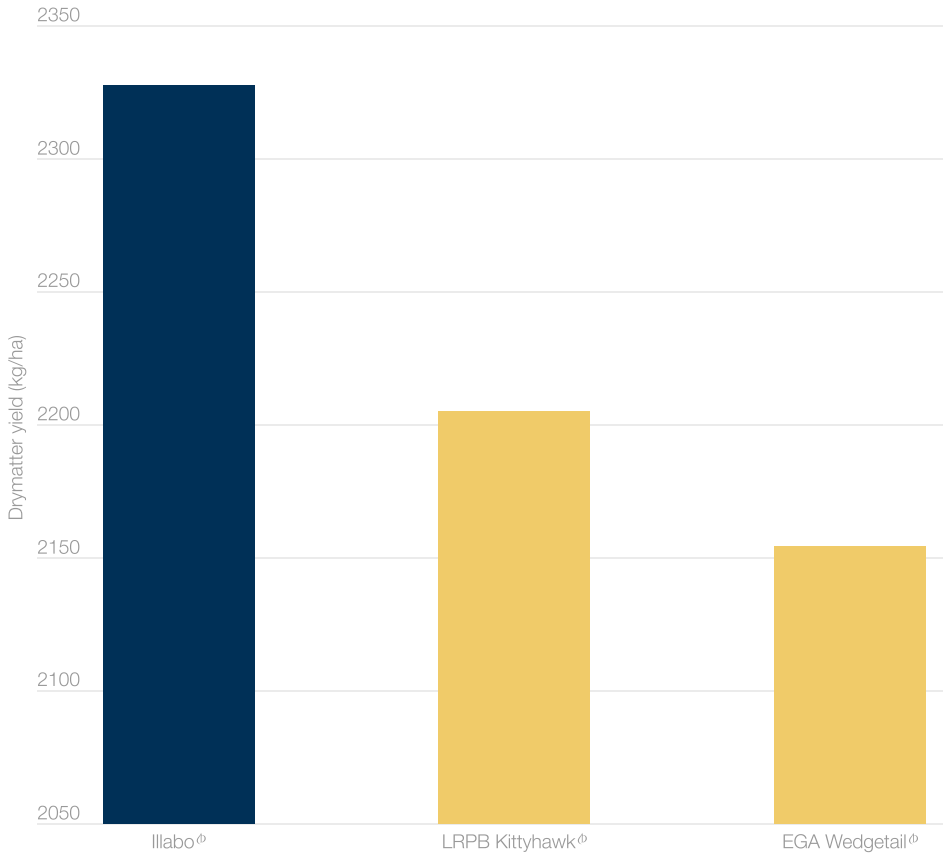
Source: NVT long term MET analysis early sown trial series 2017-2021

() Number of trials that each variety was present in across this dataset [28 trials total in dataset]

Dry matter production

AGT grazing trial data demonstrated that up to the appearance of first node, Illabo^ϕ produced more amounts of dry matter than both EGA Wedgetail^ϕ and LRPB Kittyhawk^ϕ (Figure 2).

Figure 2. Average dry matter production of Illabo^ϕ

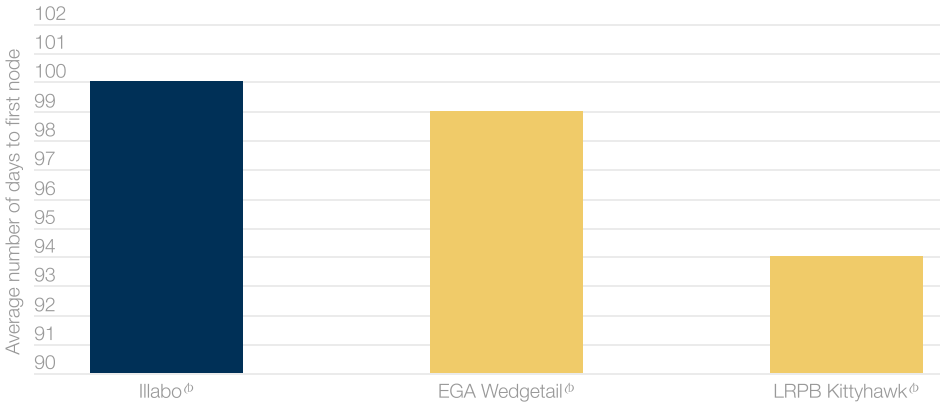


Source: AGT grazing trials, Collingullie NSW 2019-2021 (average sowing date 15th April)

Maturity

AGT data collected from 2019-2021 showed the safe grazing period of Illabo^ϕ (growth stages leading up to detection of first node) was comparable to EGA Wedgetail^ϕ (Figure 3).

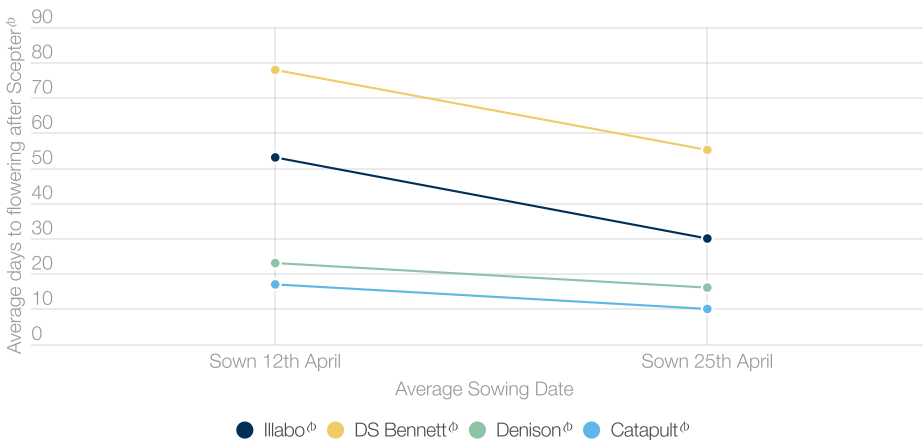
Figure 3. Average number of days after sowing to the detection of first node for Illabo^ϕ compared to other varieties



Source: AGT grazing trials, Collingullie NSW 2019-2021 (average sowing date 15th April)

Flowering data from DPIRD time of sowing trials indicates Illabo^ϕ was slightly slower to reach head emergence than slow spring variety Denison^ϕ, but considerably quicker than slow winter variety DS Bennett^ϕ (Figure 4).

Figure 4. Flowering date of Illabo^ϕ in response to sowing time



Source: DPIRD crop phenology project (average of three 2021 sites - Merredin, Katanning, and Grass patch). For local predictions of flowering date, refer to DPIRD online prediction tool Flower Power, <https://www.agric.wa.gov.au/frost/flower-power>

Disease, agronomics and grain quality

Illabo^ϕ has a sound disease package, with excellent resistance to powdery mildew which can be an issue in high rainfall environments.

Illabo^ϕ is shorter in plant height compared to EGA Wedgetail^ϕ, LRPB Kittyhawk^ϕ and DS Bennett^ϕ, and displays excellent lodging resistance.

Illabo^ϕ produces grain with moderate test weight and has recorded low screenings losses in both NVT and AGT long season trials, consistently lower than DS Bennett^ϕ and LRPB Kittyhawk^ϕ.

Table 1. Variety comparisons

| | Illabo ^ϕ | EGA Wedgetail ^ϕ | LRPB Kittyhawk ^ϕ | DS Bennett ^ϕ |
|--------------------------------|---------------------|----------------------------|-----------------------------|-------------------------|
| Quality Classification | AH | APW | AH | FEED |
| Maturity | Quick-Mid winter | Quick-Mid winter | Quick winter | Slow winter |
| Stem Rust | MRMS | MRMS | MRMS-S | MRMS |
| Stripe Rust | MR | MS | RMR | R |
| Leaf Rust | S | MSS | MR | SVS |
| Yellow Spot | MS | MSS | MRMS | MRMS |
| Septoria nodorum Blotch (leaf) | MRMS | MRMS | NA | MR |
| Powdery Mildew | R | MRMS | NA | R |
| Plant Height | Short | Medium | Medium | Tall |
| Head Type | Awned | Awned | Awned | Awnless |

R Resistant

MR Moderately Resistant

MS Moderately Susceptible

S Susceptible

VS Very Susceptible

Source: NVT consensus ratings 2021



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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.