

## VARIETY ATTRIBUTES

A slow maturing Spring wheat with a unique set of maturity holds that allows it to be planted earlier in areas that don't suit the traditional winter wheat types

AH classification in South East Zone

High tiller number and semi prostrate early growth habit which may aid as part of an Integrated weed management solution

Medium tall in height with good standability in high production situations

## AGRONOMIC FEATURES

LongReach Plant Breeders phenology studies show that LRPB Nighthawk has the strong photoperiod controls of a "Very Slow Spring Wheat" this has been confirmed through the GRDC MESW project. LRPB Nighthawk has an early growth habit similar to dual purpose Winter wheats like LRPB Kittyhawk, but it can break the vegetative cycle earlier in Spring than LRPB Kittyhawk.

Existing slow developing spring wheat varieties, such as Cutlass and Yitpi, have photoperiod controls that are not strong enough for sowing prior to 20th of April without increased frost risk during the reproductive phase. In contrast winter wheats, like LRPB Kittyhawk, have strong vernalisation (cold weather) requirements to control heading that allow sowing earlier. These types typically suit later finishing environments with long grain filling periods. LRPB Nighthawk is an option that opens the seeding window earlier in main season environments to capitalise on early break years.

LRPB Nighthawk was first entered into NSW DPI and GRDC Time of Sowing trials in 2017. These trials have shown LRPB Nighthawk was slightly quicker to develop than the fast winter wheat (Longsword) and mid winter wheat (Kittyhawk) when sown in April but slower to develop when sown in May.

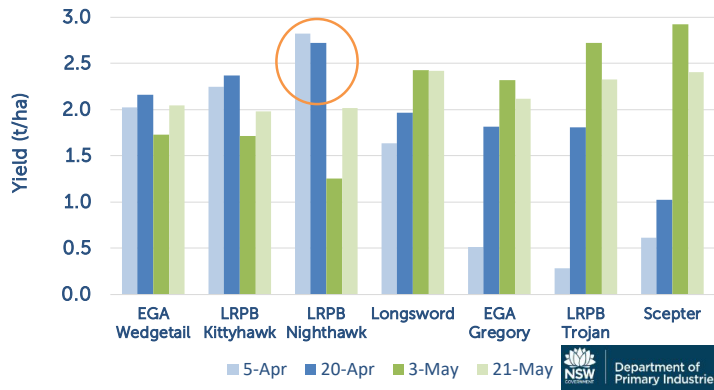
### DISEASE RESISTANCE

|                  |     |      |
|------------------|-----|------|
| Stem Rust        |     | RMR  |
| Leaf Rust        |     | MSS  |
| Stripe Rust East |     | MR   |
| Yellow Spot      |     | MRMS |
| Septoria tritici |     | MSS  |
| Crown Rot        |     | MSS  |
| Prat.thornei     | Res | MS   |
| Prat.thornei     | Tol | I    |
| Prat.neglectus   | Res | MSS  |
| Prat.neglectus   | Tol | IVI  |
| Black Point      |     | MS   |

Resistance ratings: VS = Very Susceptible  
S = Susceptible, MS=Moderately Susceptible  
MR = Moderately Resistant, R = Resistant  
Tol Rating - T = Tolerant, MT = Moderately Tolerant  
MI = Moderately Intolerant, I = Intolerant  
Data sourced NVT and LongReach Plant Breeders Feb 2021. p = Preliminary Data Based on limited data set

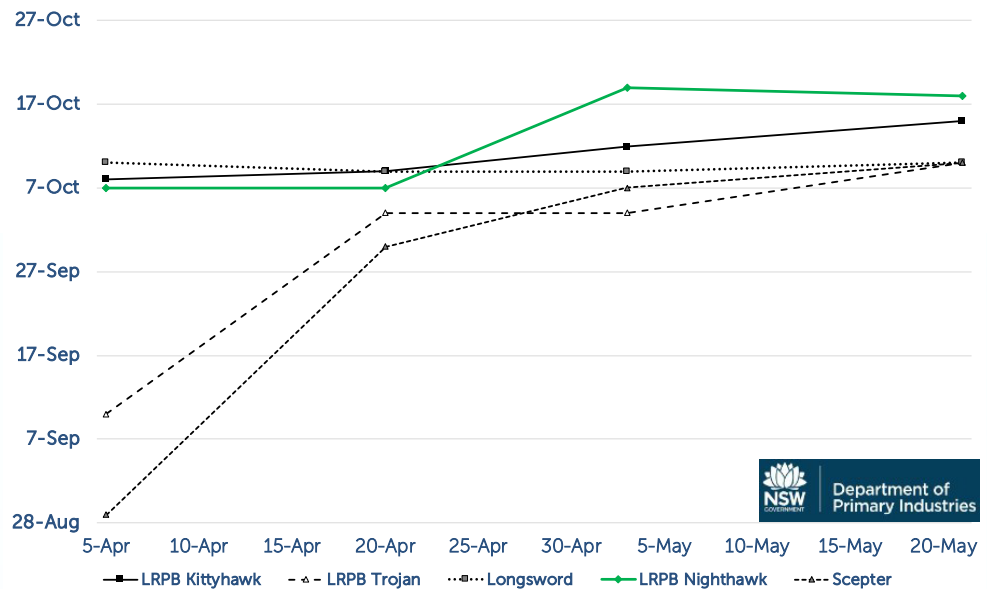
YIELD PERFORMANCE

NSW DPI Time Of Seeding trial Wagga 2018  
LSD (Genotype x TOS) 0.49 t/ha



In these trials LRPB Nighthawk has shown its ability to match the yield of leading main season varieties sown early May when LRPB Nighthawk is sown in April.

Flowering Date (NSW DPI TOS Trial Wagga 2018)



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Each time a grower purchases seed of LongReach Nighthawk the grower agrees to comply with the Variety Licence and Royalty Agreement, including agreement to pay the EPR of \$4.25 per tonne (GST excl). EPR is payable on all grain production, except on seed retained by the grower for replanting by the grower. The majority of the EPR will be paid by Advanta Seeds to the Breeder (LongReach Plant Breeders) for investment in future wheat breeding programs.

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