NIGHTHAWK

LPB14-0392

a new variety from Pacific Seeds

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

APW classification in Southern Zone (SA/VIC) and AH classification in South East Zone (SNSW)

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

DISEASE RESISTANCE					
Stem Rust		RMR			
Leaf Rust		MSS			
Stripe Rust East		RMR			
Yellow Spot		MS			
Septoria tritici		MSS			
Crown Rot		MSSp			
Prat.thornei	Res	MS			
Prat.thornei	Tol	MII			
Prat.neglectus	Res	S			
Prat.neglectus	Tol	-			
CCN		MS			
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 2020. p = Preliminary Data Based on limited data set

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 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.

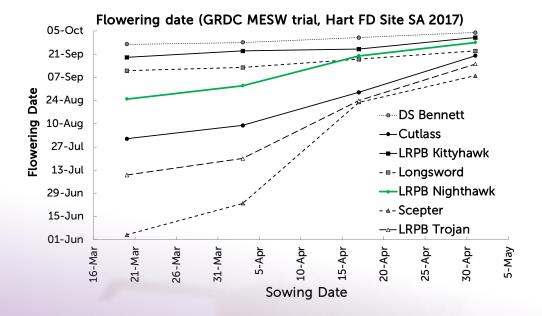


YIELD PERFORMANCE

Mean yield performance for selected Winter/Slow Spring wheat varieties in yield environments less than 2.5t/ha (16 sites) and greater than 2.5t/ha (8 sites) from GRDC Managing Early Sown Wheat Project trials (2017-19) as presented at GRDC Grains Research Update (Adelaide) Feb 2020

SA/Vic < 2.5 t/ha (16 sites)							
Variety	Seeding time						
	18-Mar	4-Apr	18-Apr	3-May			
Longsword	1.22	1.27	1.25	1.27			
Nighthawk	1.12	1.25	1.24	1.19			
DS Bennett	1.10	1.15	1.16	1.08			
Kittyhawk	1.07	1.09	1.10	1.03			
LSD (0.05) TOSxVar	0.09						

All sites > 2.5 t/ha (8 sites)							
Variety	Seeding time						
	18-Mar	4-Apr	18-Apr	3-May			
DS Bennett	4.21	4.30	4.28	4.30			
Nighthawk	3.01 (4.16	4.44	4.12			
Kittyhawk	3.42	3.97	4.14	4.01			
Longsword	2.70	3.14	3.42	3.72			
LSD (0.05) TOSxVar	0.41						



PLANT BREEDERS RIGHTS

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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.

