

TECH NOTE | WHEAT
2025

LONGREACH VORTEX

LPB18-3055

Western Australia



VARIETY ATTRIBUTES

LRPB Vortex is developed for regional WA using the parental building blocks from LRPB Cobra and a breeding line containing improved disease resistance and a strong receivals grain package.

Mid-Spring maturity similar to Scepter.

Robust disease package suited to WA growing conditions.

Broad adaption in all production Agzones of WA.

APW Classification.

Solid grain receivals for reliable delivery at the bin.

AGRONOMIC BACKGROUND

LRPB Vortex is a high yielding mid-spring maturity similar to other main season varieties such as Scepter, Calibre and Devil.

LRPB Vortex has top end yield performance while maintaining a consistent yield advantage over current benchmark varieties throughout WA.

LRPB Vortex is an erect and compact plant type with good tillering and medium sized heads. LRPB Vortex has an excellent Powdery Mildew rating of MS and good all round abiotic stress tolerances fit for the diverse growing conditions of WA.

DISEASE RESISTANCE

Stem Rust	MRMS
Leaf Rust	SVS*
Stripe Rust (Yr) WA	RMR
Yellow Spot	MRMS
Powdery Mildew	MS
Septoria Tritici WA	MSSp
Nodorum Blotch (Glume)	MS
Nordorum Blotch (Leaf)	MRMS
CCN Resistance	MSS
Crown Rot	MSS
Prat.Neglectus - Resistance	S

NVT Disease Ratings March 2025. Resistance ratings: VS=Very Susceptible, S=Susceptible, MS=Moderately Susceptible, MR=Moderately Resistant, R=Resistant. Tolerance ratings: T=Tolerant, MT=Moderately Tolerant, MI=Moderately Intolerant, I=Intolerant, VI=Very Intolerant. p=preliminary data based on limited data set. #=may be more susceptible to alternative pathotypes. *Indicates LRPB Breeder Rating.

Maturity comparisons, Vortex (Left) vs Scepter (Right); plots at the Kojonup 2023 Main Season NVT trial showing the maturity difference (27 Sept 2023).



LONGREACH VORTEX

YIELD PERFORMANCE

Vortex has consistently shown around a 4-5% yield improvement over Scepter since entering LongReach field trials in 2018. LRPB Vortex was first entered into WA NVT trials in 2021 since this time LRPB Vortex has been one of the highest yielding lines in the NVT main season trialing system. Long term NVT MET analysis (2019-2023) has confirmed significant yield improvement over Scepter first observed in the LongReach Breeding program since 2018.

WA Main Season MET Analysis (2019-2023) - % Site Mean Yield							
	Agzone1	Agzone2	Agzone3	Agzone4	Agzone5	Agzone6	All WA
LRPB Vortex	111%	110%	111%	110%	110%	112%	111%
Vixen	107%	110%	106%	111%	113%	107%	109%
Calibre	106%	109%	108%	109%	111%	107%	109%
RockStar	108%	107%	109%	106%	108%	111%	108%
Scepter	107%	108%	107%	108%	109%	108%	108%
Mean Yield (t/ha)	3.07	3.41	4.41	2.62	3.00	4.00	3.29
Trials in Analysis	22	76	22	46	26	12	204

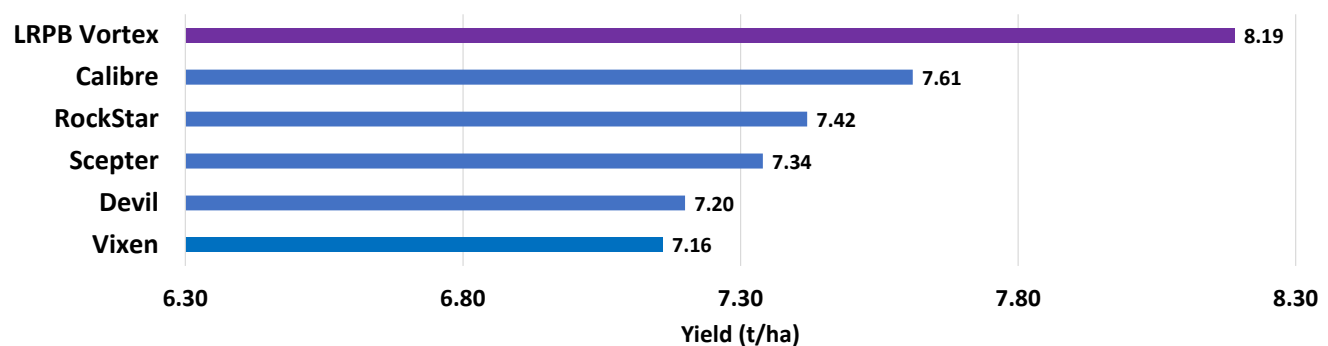
1NVT

FIRST MAIN SEASON VARIETY OVER 8.0 T/HA

LRPB Vortex, is the first variety to achieve over 8.0 t/ha yield in the Western Australia Main Season NVT trials history, reaching an average of 8.19 t/ha at the 2022 Goomalling main NVT. LRPB Vortex had an exceptional 0.85 t/ha and 0.77 t/ha yield advantage over Scepter and Rockstar respectively.

1NVT

Yield Comparisons of benchmark varieties at the 2022 Main season Site data at Goomalling



LRPB Vortex is available through our Associate Network For Contact Information please go to www.pacificseeds.com.au

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