Shotgun[Ꝺ]

- A clear Scepter® replacement, with a significant yield advantage
- Very high and stable yields across a range of environments and yield ranges
- Similar maturity to Scepter®
- Agronomically very similar to Scepter®
- AH quality classification

Breeder's comments

Shotgun$^{\Phi}$ has been a standout performer in our breeding program, and builds upon a famous lineage of varieties: Wyalkatchem$^{\Phi}$, Mace$^{\Phi}$, Scepter$^{\Phi}$ and then Calibre$^{\Phi}$.

Shotgun$^{\Phi}$ is derived from Scepter$^{\Phi}$ and is agronomically very similar. Growers who have experience with Scepter$^{\Phi}$ can view Shotgun$^{\Phi}$ as a Scepter$^{\Phi}$ replacement, with the same maturity and plant type, but offering higher yield.

Shotgun$^{\Phi}$ will also be viewed as an alternative to Calibre$^{\Phi}$, Vixen$^{\Phi}$ and Devil$^{\Phi}$, for those looking for the next big yield jump; or as an alternative to LRPB Vortex$^{\Phi}$, offering AH quality versus APW, and higher yields at lower yield ranges.

Shotgun$^{\Phi}$ has a very similar disease resistance package to Scepter$^{\Phi}$, and offers a small improvement in powdery mildew resistance. Shotgun$^{\Phi}$ has good levels of resistance to yellow spot, making it a great option for mallee type environments or wheat on wheat situations.

We believe that the package of very high yield, good disease resistance, reliable agronomic and physical grain quality attributes, and an AH quality classification will mean that Shotgun$^{\Phi}$ is likely to become the dominant variety across WA.

Shotgun

Table 1. Specifications

Background

Tested as	RAC3227
Released	2024
EPR rate	$3.90/tonne + GST

Disease

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

Plant Characteristics

Maturity speed^	Quick-mid
Maturity habit^	Spring
Sowing window^	Main & Late
Novel herbicide tolerance^	None (conventional tolerance)
Head type^	Awned
Plant height^	Moderately short
Coleoptile length^	Short
Lodging tolerance^	MTMI

Abiotic Stress

Boron tolerance^	Carries tolerance gene
Acid/aluminium tolerance^	Carries tolerance gene

Grain Quality

Quality classification	AH
Grain colour	White
Screenings level^	Moderate
Test weight^	Moderate
Sprouting tolerance^o	MII
Black Point resistance*	S (P)

Legend

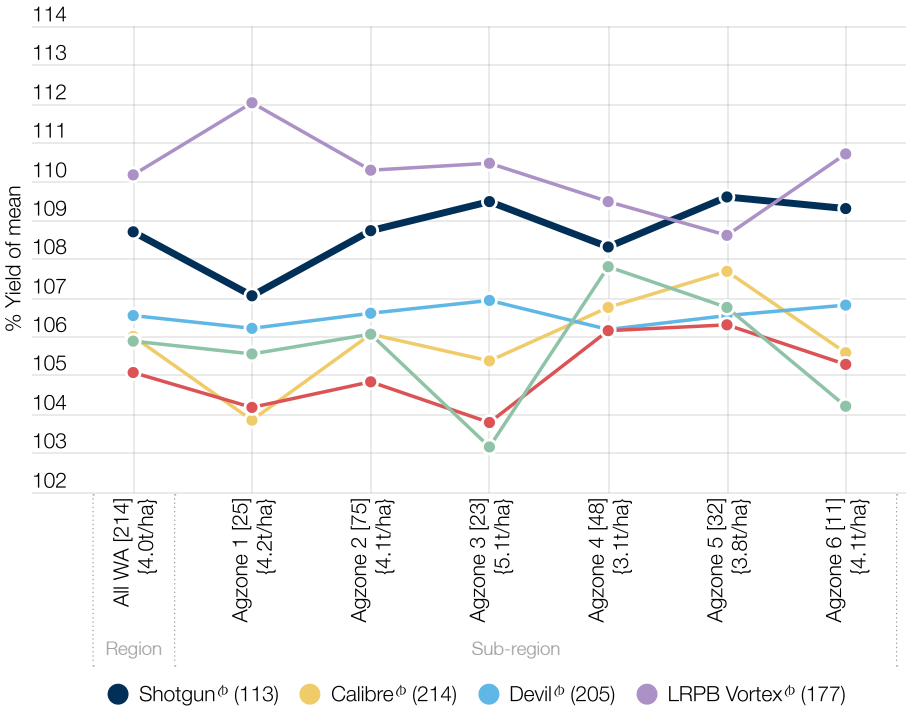
R	Resistant
MR	Moderately Resistant
MS	Moderately Susceptible
S	Susceptible
VS	Very Susceptible
T	Tolerant
MT	Moderately Tolerant
MI	Moderately Intolerant
I	Intolerant
VI	Very Intolerant
(P)	Provisional rating
NA	Not Available
/	Pathotype differences
-	Range
,	Mixed phenotype
#	May be more susceptible to alternate pathotypes
*	NVT consensus ratings 2026
o	Rating based on Germination Index Values
^	AGT ratings/data interpretation. Comprehensive AGT agronomic trait ratings and data can be found at: https://bit.ly/Traits_2026

Grain yield

Shotgun$^{\Phi}$ has produced exceptional yields across WA in NVT testing, offering over 3% higher yield than widely grown variety Scepter$^{\Phi}$ over-all (Figure 1).

While the APW quality variety LRPB Vortex$^{\Phi}$ has set a new yield benchmark over-all, it pays to look at performance across yield ranges to help with variety choice (Figure 2). At low yield levels (sub 2t/ha), Shotgun$^{\Phi}$ has a clear advantage over LRPB Vortex$^{\Phi}$, while yielding just under LRPB Vortex$^{\Phi}$ at higher yield potentials. Versus Scepter$^{\Phi}$, Shotgun$^{\Phi}$ yields slightly higher at lower yield levels, but much better at higher yield potentials. This clearly demonstrates Shotgun's$^{\Phi}$ yield stability across a range of yield levels and strengthens the argument to choose Shotgun$^{\Phi}$ if reliability is valued.

Figure 1. Grain yield of Shotgun$^{\Phi}$ versus comparators across WA - NVT main season trials



Source: Best linear unbiased predictions from NVT long term MET analysis, main season trial series 2021-2025

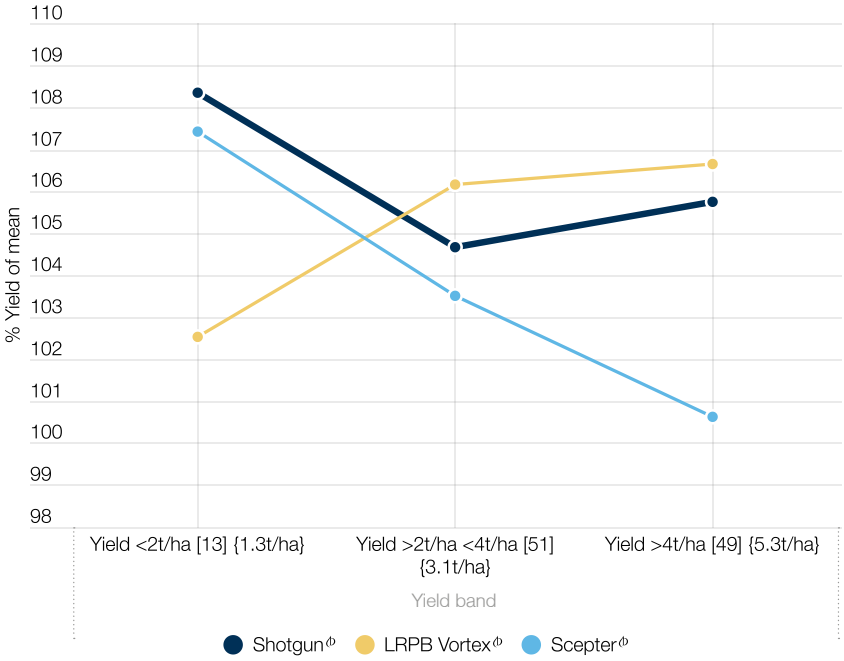
[ ] : Total number of trials per region

( ) : Number of trials that each variety was present in across the dataset

{ } : Region mean

Grain yield

Figure 2. Grain yield of Shotgun$^{\Phi}$ versus comparators - yield bands - NVT trials



Source: NVT main season trial series 2023-2025

[ ] : Total number of trials per yield band

{ } : Trial mean

Note: Only trials where all comparators were present are included in this analysis

Variety comparisons

Shotgun$^{\phi}$ has an AH quality classification in WA, and produces grain with acceptable test weight and screenings levels.

Shotgun$^{\phi}$ has a disease resistance profile similar to Scepter$^{\phi}$, with good rust and yellow spot resistance.

Table 2. Variety comparisons

		Shotgun$^{\phi}$	Calibre$^{\phi}$	Devil$^{\phi}$	LRPB Vortex$^{\phi}$	Scepter$^{\phi}$	Vixen$^{\phi}$
Disease	Stem Rust resistance*	MRMS	MRMS	S	MRMS	MRMS	MRMS
	Stripe Rust resistance*	RMR	RMR	MR	RMR	RMR	MRMS
	Leaf Rust resistance*	MSS	S	SVS	SVS	MSS	SVS
	Yellow Spot resistance*	MRMS	MRMS	MRMS	MRMS	MRMS	MRMS
	Powdery Mildew resistance*	S	MSS	SVS	MSS	S	SVS
	Septoria Nodorum Blotch (Glume) resistance*	MS	MSS	MS	MSS	MSS	MSS
	Septoria Nodorum Blotch (Leaf) resistance*	MRMS	MS	MRMS	MRMS	MRMS	MS
Plant Characteristics	Maturity speed^	Quick-mid	Quick	Quick-mid	Quick-mid	Mid	Very quick-quick
	Maturity habit^	Spring	Spring	Spring	Spring	Spring	Spring
	Sowing window^	Main & Late	Main & Late	Main & Late	Main & Late	Main & Late	Main & Late
	Novel herbicide tolerance^	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)
	Head type^	Awned	Awned	Awned	Awned	Awned	Awned
	Plant height^	Moderately short	Moderate	NA	Moderately short	Moderate	Short to moderately short
	Coleoptile length^	Short	Long	NA	NA	Short	Short
	Lodging tolerance^	MTMI	MII	NA	MTMI	MTMI	MTMI
Abiotic Stress	Boron tolerance^	Carries tolerance gene	Carries tolerance gene	NA	NA	Carries tolerance gene	Does not carry tolerance gene
	Acid/aluminium tolerance^	Carries tolerance gene	Carries tolerance gene	NA	NA	Carries tolerance gene	Carries tolerance gene
Grain Quality	Quality classification	AH	AH	AH (N)	APW	AH	AH (N)
	Grain colour	White	White	White	White	White	White
	Screenings level^	Moderate	Low	NA	Moderate	Low	Low
	Test weight^	Moderate	Low	NA	High	High	Moderate
	Sprouting tolerance^°	MII	MII	NA	NA	MII	IVI
	Black Point resistance*	S (P)	MSS	MSS	S	MS	MSS

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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)

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Varieties denoted by the Φ 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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