Shotgun[CL]

- The new yield benchmark for AH quality main season wheats for WA
- A clear Scepter® replacement, with a significant yield advantage
- The next yield jump on from Calibre®
- Similar maturity to Scepter®
- Agronomically very similar to Scepter®
- Improved powdery mildew over 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, for those looking for the next big yield jump.

Shotgun$^{\Phi}$ has a very similar disease resistance package to Scepter$^{\Phi}$, and offers some improvements 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*	MSS (P)
Septoria Nodorum Blotch (Glume) resistance*	MSS (P)
Septoria Nodorum Blotch (Leaf) resistance*	MRMS (P)

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^	Low
Test weight^	Moderate
Sprouting tolerance^°	MII
Black Point resistance*	S (P)

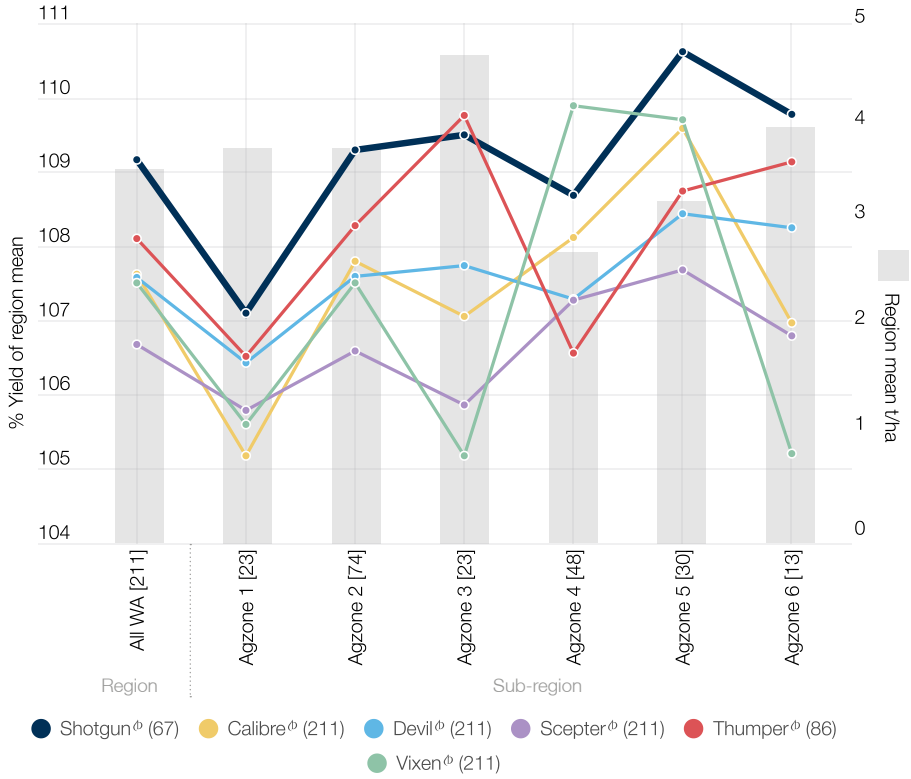
Legend

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 2025
°	Rating based on Germination Index Values
^	AGT ratings/data interpretation. Comprehensive AGT agronomic trait ratings and data can be found at: https://bit.ly/TraitRatings

Grain yield

Shotgun$^{\Phi}$ is the highest yielding AH quality wheat variety in long term NVT testing overall, offering over 2% higher yield than widely grown variety Scepter$^{\Phi}$.

Figure 1. Predicted grain yield of Shotgun$^{\Phi}$ versus AH comparators across WA regions



Source: NVT long term MET analysis, main season trial series 2020-2024

[ ] : Total number of trials per region

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

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$^{\phi}$	Scepter$^{\phi}$	Thumper$^{\phi}$	Vixen$^{\phi}$
Disease	Stem Rust resistance*	MRMS	MR	S	MRMS	MS	MRMS
	Stripe Rust resistance*	RMR	RMR	RMR	RMR	RMR	MR
	Leaf Rust resistance*	MSS	S	SVS	MSS	MSS	SVS
	Yellow Spot resistance*	MRMS	MRMS	MRMS	MRMS	MRMS	MRMS
	Powdery Mildew resistance*	MSS (P)	MSS	NA	S	S (P)	SVS
	Septoria Nodorum Blotch (Glume) resistance*	MSS (P)	MSS	NA	NA	S (P)	NA
	Septoria Nodorum Blotch (Leaf) resistance*	MRMS (P)	MS	NA	NA	MRMS (P)	NA
Plant Characteristics	Maturity speed^	Quick-mid	Quick	Quick-mid	Mid	Quick-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	Moderate	NA	Short to moderately short
	Coleoptile length^	Short	Long	NA	Short	NA	Short
	Lodging tolerance^	MTMI	MII	NA	MI	NA	MTMI
Abiotic Stress	Boron tolerance^	Carries tolerance gene	Carries tolerance gene	NA	Carries tolerance gene	NA	Does not carry tolerance gene
	Acid/aluminium tolerance^	Carries tolerance gene	Carries tolerance gene	NA	Carries tolerance gene	NA	Carries tolerance gene
Grain Quality	Quality classification	AH	AH	AH (N)	AH	AH	AH (N)
	Grain colour	White	White	White	White	White	White
	Screenings level^	Low	Low	NA	Low	NA	Low
	Test weight^	Moderate	Low	NA	High	NA	Moderate
	Sprouting tolerance^o	MII	MII	NA	MII	NA	IVI
	Black Point resistance*	S (P)	MSS	MSS	MS	SVS (P)	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)

PBR and EPR

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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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. Wherever possible, independent NVT data has been used in this publication. In the absense of NVT data, AGT data has been provided.