Shotgun[CL]

AGT

- The new yield benchmark for main season sowing across SA/Vic
- 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 and stripe rust resistance 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 much higher yield.

Shotgun$^{\Phi}$ will also be viewed as an alternative to Calibre$^{\Phi}$, Vixen$^{\Phi}$, Rockstar$^{\Phi}$ and LRPB Matador$^{\Phi}$, 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 and stripe rust resistance. Shotgun$^{\Phi}$ has good levels of resistance to CCN and yellow leaf 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 SA and Victoria.

Shotgun

Table 1. Specifications

Background

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

Disease

Stem Rust resistance*	MRMS
Stripe Rust resistance*	MSS
Leaf Rust resistance*	MSS
Yellow Leaf Spot resistance*	MRMS
Powdery Mildew resistance*	S
Septoria Tritici Blotch resistance*	S (P)
CCN resistance*	R (P)
Pratylenchus Neglectus resistance*	MS (P)
Pratylenchus Neglectus tolerance*	MI (P)
Eyespot resistance*	S (P)
Crown Rot resistance*	MS (P)
Crown Rot resistance*	MS (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)

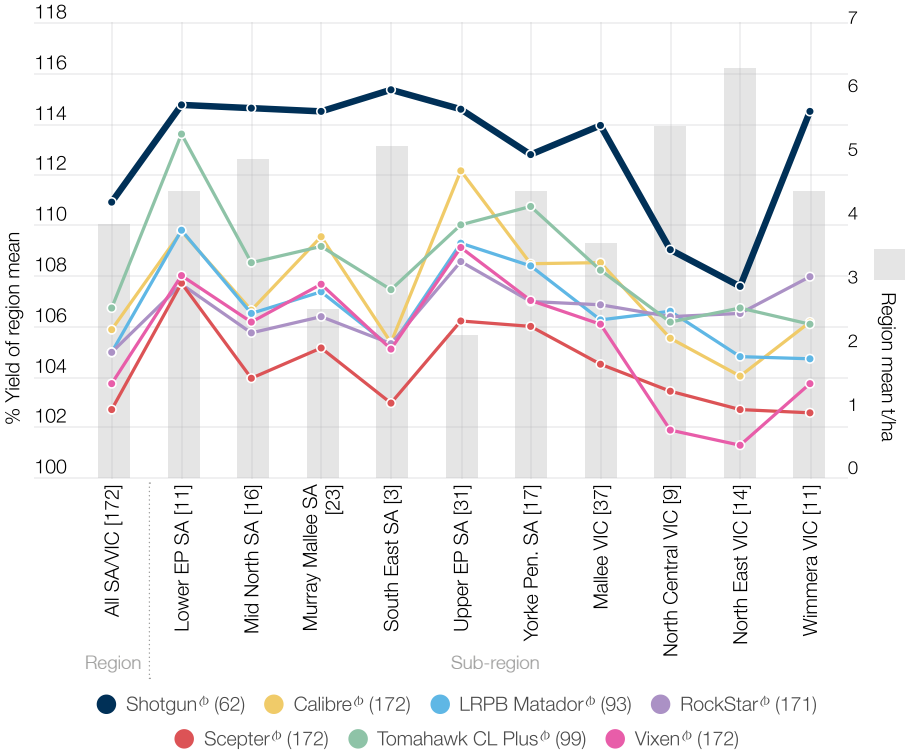
Legend

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$^{\Phi}$ has set a new yield benchmark in NVT main season trials across all regions of SA and Vic, over-all offering an 8% increase in yield over Scepter$^{\Phi}$, and 4% higher yield than next highest yielding variety, Tomahawk CL Plus$^{\Phi}$ (Figure 1).

Figure 1. Predicted grain yield of Shotgun$^{\Phi}$ versus comparators across SA/Vic



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$^{\phi}$ offers an agronomic package very similar to Scepter$^{\phi}$, but with slightly better stripe rust, powdery mildew and CCN resistance.

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

Table 2. Variety comparisons

		Shotgun$^{\phi}$	Calibre$^{\phi}$	LRPB Matador$^{\phi}$	RockStar$^{\phi}$	Scepter$^{\phi}$	Tomahawk CL Plus$^{\phi}$	Vixen$^{\phi}$
Disease	Stem Rust resistance*	MRMS	MR	MS	MRMS	MRMS	MR	MRMS
	Stripe Rust resistance*	MSS	S	MS	S	S	S	SVS
	Leaf Rust resistance*	MSS	S	MSS	S	MSS	S	SVS
	Yellow Leaf Spot resistance*	MRMS	MRMS	MRMS	MRMS	MRMS	MRMS	MRMS
	Powdery Mildew resistance*	S	MSS	MSS	SVS	SVS	SVS	SVS
	Septoria Tritici Blotch resistance*	S (P)	S	S	S	S	S	S
	CCN resistance*	R (P)	MRMS	MS (P)	MSS	MRMS	MRMS	MSS
	Pratylenchus Neglectus resistance*	MS (P)	S	S	MRMS	S	S	MRMS
	Pratylenchus Neglectus tolerance*	MI (P)	MT	S	I	MTMI	MI (P)	I
	Eyespot resistance*	S (P)	S	S (P)	S	S	S	S
	Crown Rot resistance*	MS (P)	S	S	S	MSS	MSS	S
Plant Characteristics	Maturity speed^	Quick-mid	Quick	Quick-mid	Mid-slow	Mid	Quick-mid	Very quick-quick
	Maturity habit^	Spring	Spring	Spring	Spring	Spring	Spring	Spring
	Sowing window^	Main & Late	Main & Late	Main & Late	Early & Main	Main & Late	Main & Late	Main & Late
	Novel herbicide tolerance^	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)	Clearfield® Plus (Intervix® herbicide)	None (conventional tolerance)
	Head type^	Awned	Awned	Awned	Awned	Awned	Awned	Awned
	Plant height^	Moderately short	Moderate	Moderately short	Moderately short	Moderate	Moderate	Short to moderately short
	Coleoptile length^	Short	Long	Short	Short	Short	Short	Short
	Lodging tolerance^	MTMI	MII	MTMI	MTMI	MI	MTMI	MTMI
Abiotic Stress	Boron tolerance^	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	Does not carry tolerance gene	Carries tolerance gene	Carries tolerance gene	Does not carry tolerance gene
	Acid/aluminium tolerance^	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene
Grain Quality	Quality classification	AH	AH	AH	AH	AH	APW	AH
	Grain colour	White	White	White	White	White	White	White
	Screenings level^	Low	Low	High	Low	Low	Low	Low
	Test weight^	Moderate	Low	Moderate	Moderate	High	Moderate	Moderate
	Sprouting tolerance^°	MII	MII	I	I	MII	I	IVI
	Black Point resistance*	S (P)	MSS	MRMS (P)	MSS	MS	S	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 ⍟ 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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