

# Shotgun<sup>®</sup>



AGT

## Variety snapshot

- Elite yielding for main season sowing across southern NSW
- A clear Scepter<sup>®</sup> replacement, with a significant yield advantage
- Similar maturity to Scepter<sup>®</sup>
- Agronomically very similar to Scepter<sup>®</sup>
- Improved powdery mildew and stripe rust resistance over Scepter<sup>®</sup>
- AH quality classification

## Breeder's comments

Shotgun<sup>®</sup> has been a standout performer in our breeding program, and builds upon a famous lineage of varieties: Wyalkatchem<sup>®</sup>, Mace<sup>®</sup> and then Scepter<sup>®</sup>.

Shotgun<sup>®</sup> is derived from Scepter<sup>®</sup> and is agronomically very similar. Growers who have experience with Scepter<sup>®</sup> can view Shotgun<sup>®</sup> as a Scepter<sup>®</sup> replacement, with the same maturity and plant type, but offering much higher yield.

Shotgun<sup>®</sup> has a very similar disease resistance package to Scepter<sup>®</sup>, and offers some improvements in powdery mildew and stripe rust resistance. Shotgun<sup>®</sup> has good levels of resistance to 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<sup>®</sup> is likely to become a dominant variety for main season plantings across southern NSW.

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)
Pratylenchus Thornei resistance*	MRMS
Pratylenchus Thornei tolerance*	TMT (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^o	MII
Black Point resistance*	S (P)

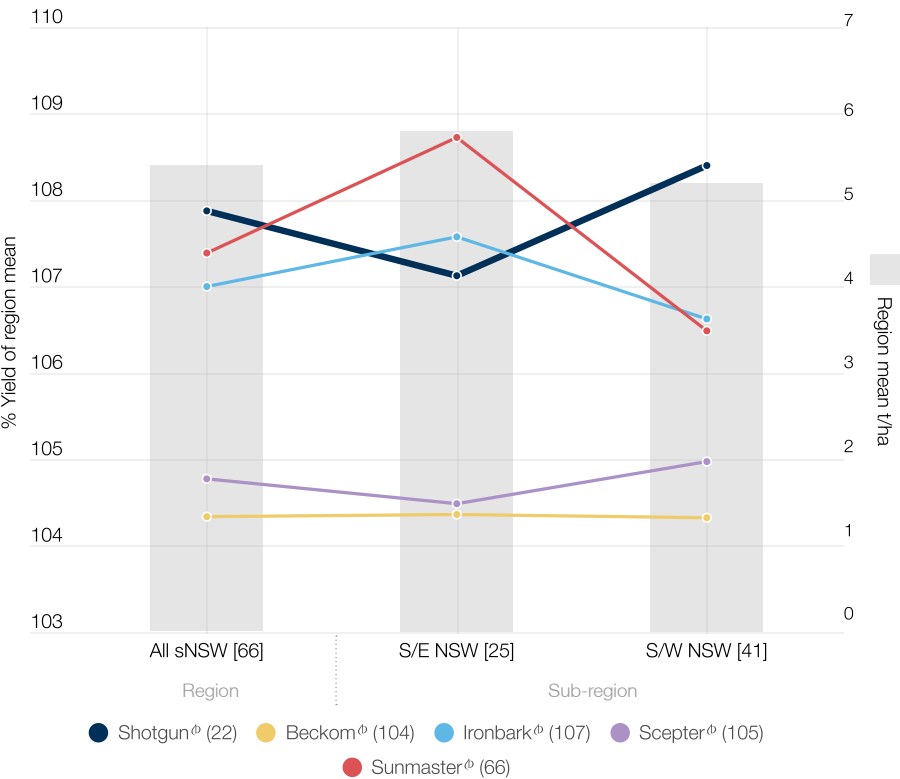
## Legend

R	Resistant	VI	Very Intolerant	o	Rating based on Germination Index Values
MR	Moderately Resistant	(P)	Provisional rating	^	AGT ratings/data interpretation. Comprehensive AGT agronomic trait ratings and data can be found at: <a href="https://bit.ly/TraitRatings">https://bit.ly/TraitRatings</a>
MS	Moderately Susceptible	NA	Not Available		
S	Susceptible	/	Pathotype differences		
VS	Very Susceptible	-	Range		
T	Tolerant	,	Mixed phenotype		
MT	Moderately Tolerant	#	May be more susceptible to alternate pathotypes		
MI	Moderately Intolerant	*	NVT consensus ratings 2025		
I	Intolerant				

# Grain yield

In long term NVT yield testing Shotgun<sup>®</sup> has enjoyed a slight yield advantage over comparator varieties in south-west NSW, whilst yielding slightly lower than Sunmaster<sup>®</sup> and Ironbark<sup>®</sup> in south-east NSW (Figure 1). As a direct Scepter<sup>®</sup> replacement, Shotgun<sup>®</sup> has produced 3% higher yields over-all.

Figure 1. Predicted grain yield of Shotgun<sup>®</sup> versus comparators across southern NSW



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<sup>®</sup> offers an agronomic package very similar to Scepter<sup>®</sup>, but with slightly better stripe rust, powdery mildew and CCN resistance.

Shotgun<sup>®</sup> has an AH quality classification and produces grain with acceptable test weight and screenings levels.

Table 2. Variety comparisons

	Shotgun <sup>®</sup>	Beckom <sup>®</sup>	Ironbark <sup>®</sup>	Scepter <sup>®</sup>	Sunmaster <sup>®</sup>	
Disease	Stem Rust resistance*	MRMS	MRMS	MS	MRMS	MS
	Stripe Rust resistance*	MSS	MRMS	MR	S	MRMS
	Leaf Rust resistance*	MSS	MSS	MRMS	MSS	RMR
	Yellow Leaf Spot resistance*	MRMS	MSS	MSS	MRMS	MSS
	Powdery Mildew resistance*	S	S	S	SVS	S
	Septoria Tritici Blotch resistance*	S (P)	S	S	S	S
	CCN resistance*	R (P)	R	MS (P)	MRMS	MSS
	Pratylenchus Neglectus resistance*	MS (P)	S	S	S	MRMS
	Pratylenchus Neglectus tolerance*	MI (P)	MTMI	IVI (P)	MTMI	MTMI
	Pratylenchus Thornei resistance*	MRMS	MSS	MR (P)	MSS	MS
	Pratylenchus Thornei tolerance*	TMT (P)	TMT	MTMI (P)	MT	TMT
	Crown Rot resistance*	MS (P)	S	MSS (P)	MSS	MSS
Plant Characteristics	Maturity speed^	Quick-mid	Quick-mid	Mid	Mid	Mid
	Maturity habit^	Spring	Spring	Spring	Spring	Spring
	Sowing window^	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)
	Head type^	Awned	Awned	Awned	Awned	Awned
	Plant height^	Moderately short	Short to moderately short	Moderately short	Moderate	Moderate
	Coleoptile length^	Short	Short	Short	Short	Moderate
	Lodging tolerance^	MTMI	MI	MI	MI	MTMI
Abiotic Stress	Boron tolerance^	Carries tolerance gene	Carries 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	Does not carry tolerance gene
Grain Quality	Quality classification	AH	AH	AH	AH	APH
	Grain colour	White	White	White	White	White
	Screenings level^	Low	Moderate	Low	Low	Low
	Test weight^	Moderate	Moderate	High	High	Very high
	Sprouting tolerance^°	MII	MII	MII	MII	I
Black Point resistance*	S (P)	MRMS	NA	MS	MR	



### *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](http://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](http://www.agtbreeding.com.au/seedsharing))

### *PBR and EPR*

Varieties denoted by the <sup>®</sup> 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.

### *Contact*

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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 absence of NVT data, AGT data has been provided.