

Shotgun[®]



Variety snapshot

- The new yield benchmark for main season sowing across southern NSW
- A clear Scepter[®] replacement, with a significant yield advantage
- The next yield jump on from Scepter[®]
- Mid season maturity, similar to Scepter[®]
- Agronomically very similar to Scepter[®]
- AH quality classification

Breeder's comments

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

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

Shotgun[®] will also be viewed as an alternative to Vixen[®] and Rockstar[®], for those looking for the next big yield jump.

Shotgun[®] has a very similar disease resistance package to Scepter[®], and offers small improvements in powdery mildew and stripe rust resistance, however, Shotgun[®] will need to be managed like Scepter[®] for these diseases.

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[®] is likely to become an important variety for main season plantings across southern NSW.

Shotgun^{1D}

Table 1. Specifications

Background

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

Disease

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

Plant Characteristics

Maturity^	Mid
Maturity habit^	Spring
Sowing window^	Main & Late
Novel herbicide tolerance^	None (conventional tolerance)
Head type^	Awned

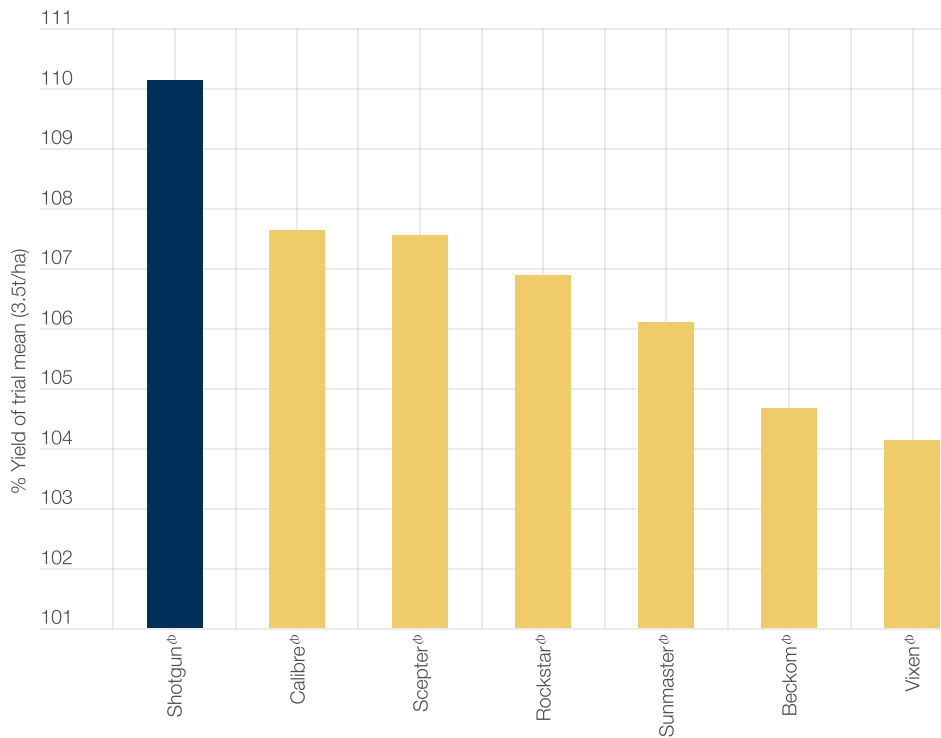
Grain Quality

Quality classification	AH
Grain colour^	White
Black Point resistance*	NA

Grain yield

Shotgun[®] has set a new yield benchmark in AGT trials (Figure 1), and has been the highest yielding variety across southern NSW in the NVT main season trials (Figure 2).

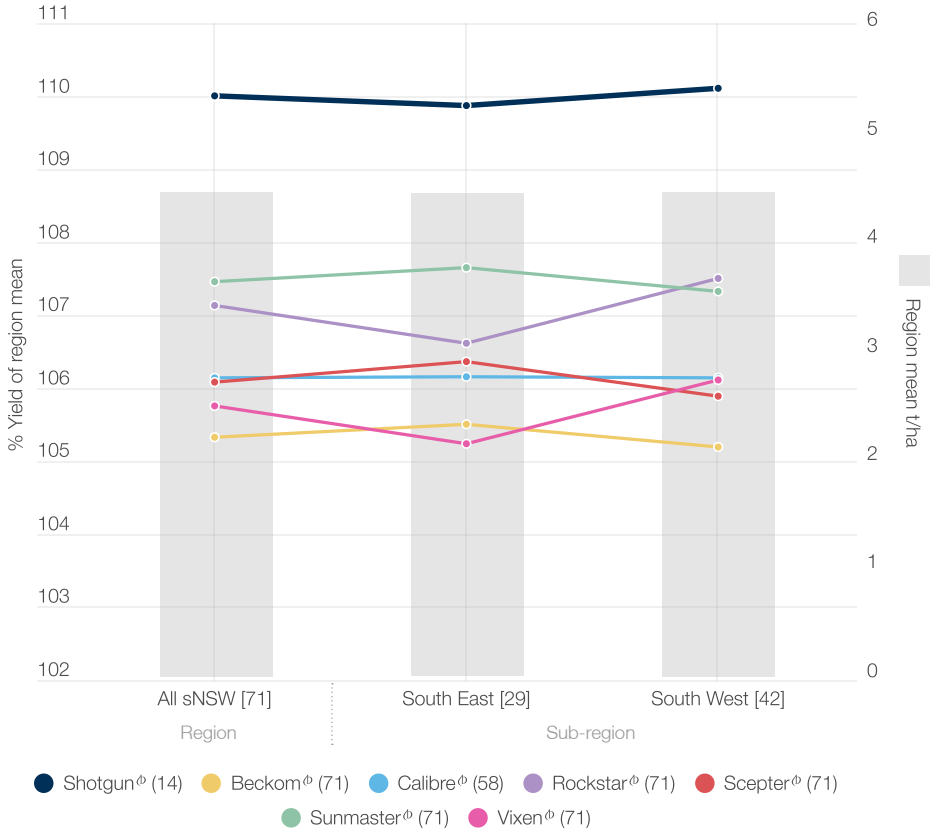
Figure 1. Predicted grain yield of Shotgun[®] versus comparators - AGT data



Source: AGT long term MET analysis, main season trial series 2019-2023 (35 trials across southern NSW)

Grain yield

Figure 2. Predicted grain yield of Shotgun^ϕ versus comparators across southern NSW regions - NVT data



Source: NVT long term MET analysis, main season trial series 2019-2023

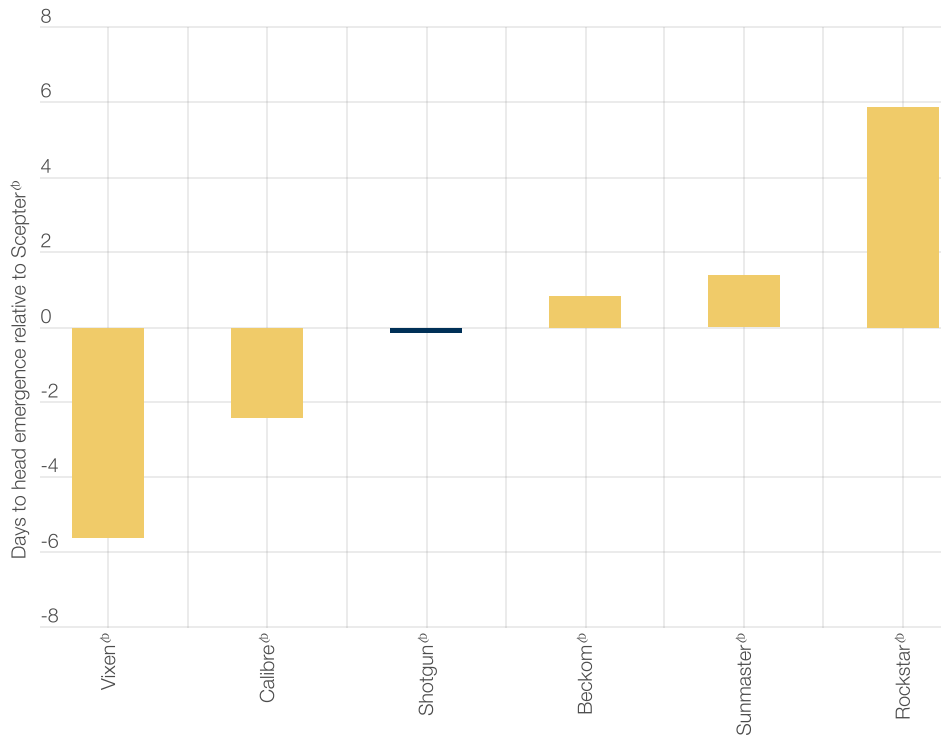
[] : Total number of trials per region

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

Maturity

Shotgun[®] is a mid season maturing variety, very similar to Scepter[®].

Figure 3. Head emergence of Shotgun[®] versus comparators

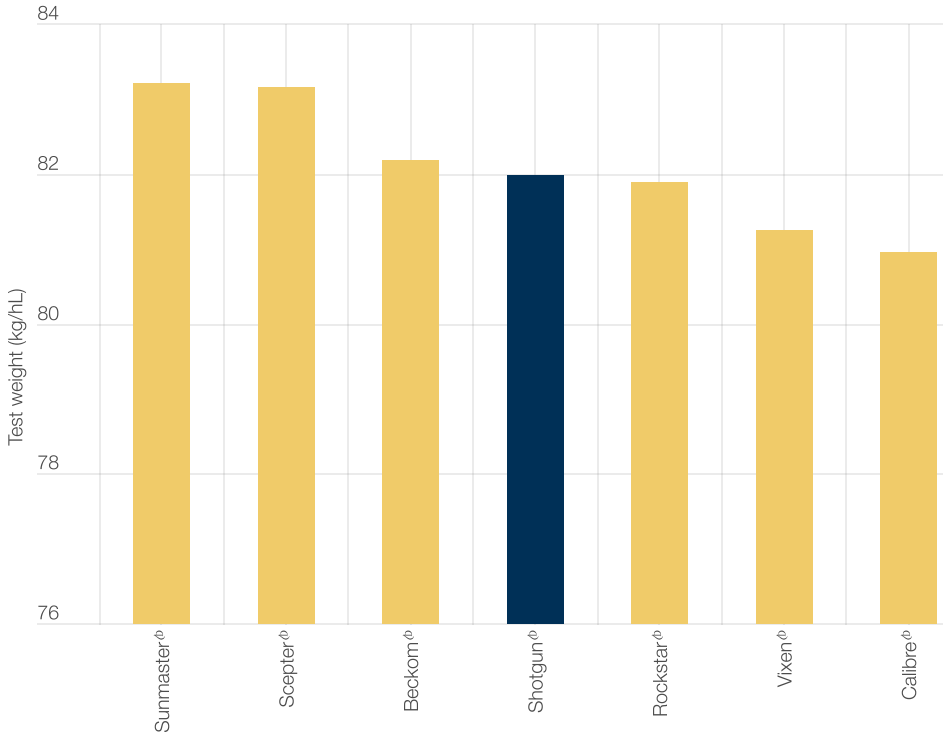


Source: AGT trials 2022-2023 - Roseworthy SA, Collingullie NSW, Northam WA (average of 6 trials)

Grain quality

Shotgun[®] has an AH quality classification in southern NSW, and produces grain with acceptable test weight and screenings levels.

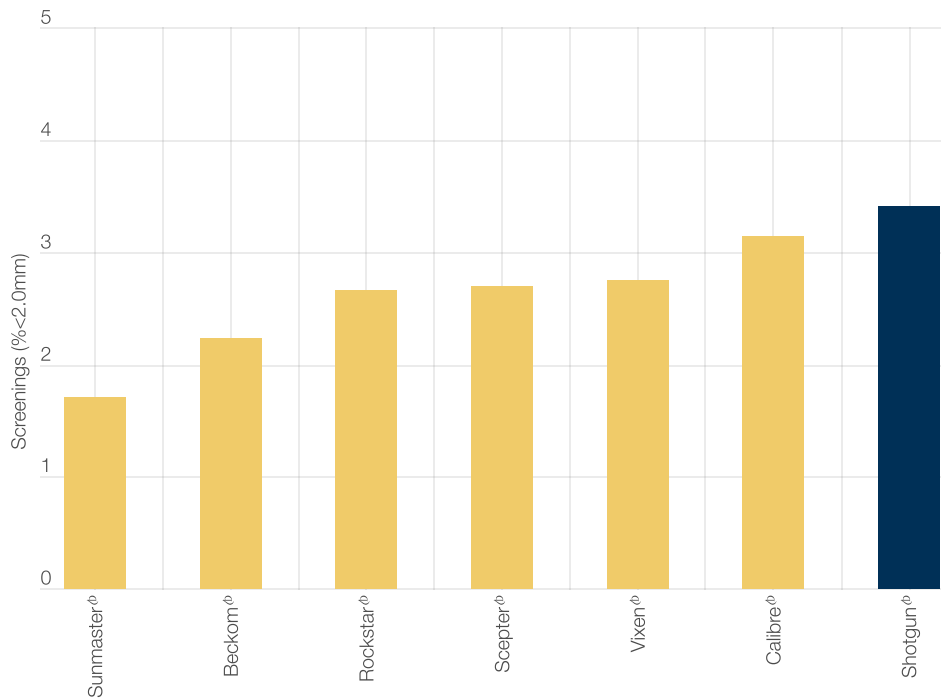
Figure 4. Test weight of Shotgun[®] versus comparators



Source: NVT main season trial series 2023, average of 14 sites in southern NSW where all varieties were present

Grain quality

Figure 5. Screenings of Shotgun[®] versus comparators



Source: NVT main season trial series 2023, average of 14 sites in southern NSW where all varieties were present

Disease

Shotgun[®] has a disease resistance profile similar to Scepter[®], but offers slightly better stripe rust and powdery mildew resistance.

Table 2. Variety comparisons

	Shotgun [®]	Beckom [®]	Calibre [®]	Rockstar [®]	Scepter [®]	Sunmaster [®]	Vixen [®]
Quality Classification	AH	AH	APH	APH	AH	APH	APH
Maturity [^]	Mid	Mid	Quick-Mid	Mid-Slow	Mid	Mid	Quick
Stem Rust resistance*	MRMS (P)	MRMS	MR	MRMS	MRMS	MS	MRMS
Stripe Rust resistance*	MS (P)	MRMS	S	S	MSS	MRMS	SVS
Leaf Rust resistance*	MSS (P)	MSS	S	S	MSS	RMR	SVS
Yellow Leaf Spot resistance*	MRMS (P)	MSS	MRMS	MRMS	MRMS	MSS	MRMS
Powdery Mildew resistance*	S(P)	S	MSS	SVS	SVS	MSS	SVS
Septoria Tritici Blotch resistance*	S (P)	S	S	S	S	S	S
CCN resistance*	MRMS (P) [^]	R	MRMS	MSS	MRMS	MSS	MSS
Pratylenchus Neglectus resistance*	NA	S	S	MRMS	S	MRMS	MRMS
Pratylenchus Neglectus tolerance*	NA	MTMI	MT	I	MTMI	MTMI	I
Pratylenchus Thornei resistance*	NA	MSS	MSS	MS	MSS	MS	MS
Pratylenchus Thornei tolerance*	NA	TMT	MII	MI	MT	TMT	I
Crown Rot resistance*	NA	S	S	S	MSS	MSS	S
Black Point resistance*	NA	MRMS	MSS	MSS	MS	MR	MSS

Legend

R	Resistant	MI	Moderately Intolerant	,	Mixed phenotype
MR	Moderately Resistant	I	Intolerant	#	May be more susceptible to alternate pathotypes
MS	Moderately Susceptible	VI	Very Intolerant	*	NVT consensus ratings 2024
S	Susceptible	(P)	Provisional rating	^	AGT ratings/data interpretation
VS	Very Susceptible	NA	Not Available		
T	Tolerant	/	Pathotype differences		
MT	Moderately Tolerant	-	Range		



Seed Availability

Please contact an AGT Affiliate or your local retailer for seed. Consult the AGT website for AGT Affiliate contact details (agtbreeding.com.au/sourcing-seed/agt-affiliates).

AGT varieties can be traded between growers upon the completion of a License Agreement as part of AGT's Seed Sharing™ initiative (agtbreeding.com.au/sourcing-seed/seed-sharing).

PRB 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.

Contact

James Whiteley, Variety Support Manager southern NSW:	0419 840 589
AGT End Point Royalty team:	(08) 7111 0201
agtbreeding.com.au	

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.