

Wheat

Variety fact sheet – South Australia & Victoria

AGT- Colt[®]



- Mid-slow maturity, similar to Yitpi^Φ and Cutlass^Φ
- Exceptional disease resistance package, including CCN and yellow leaf spot resistance
- AH quality classification, with low screenings risk
- Maturity driven by photoperiod, similar to Yitpi^Φ and Cutlass^Φ, offering earlier sowing and frost risk mitigation opportunities
- Best suited to Mallee type environments of SA/Vic where Yitpi^Φ has been grown

Breeder's comments

AGT-Colt^ϕ is very closely related to Yitpi^ϕ, and offers many of the same benefits that growers have experienced with that variety, including AH quality, a sound physical grain quality package, photoperiod-driven maturity, CCN resistance, and a taller plant type. However, AGT-Colt^ϕ also offers an exceptional, market leading over-all disease resistance package, with resistance to the three rusts, adequate protection from powdery mildew and septoria tritici, and importantly for Mallee growers, good yellow leaf spot.

In recent years, the 'Scepter' family of wheats have dominated wheat plantings across SA and Victoria, with varieties from the 'Yitpi' family moving aside.

However, the Yitpi^ϕ style of wheat has historically been very popular, particularly in Mallee environments, and for good reason: these varieties, which also include Frame^ϕ and more recently Cutlass^ϕ, offer good early vigour (important on sandy paddocks or those with high weed burdens), increased plant height (favoured in low-biomass producing environments or rocky paddocks), and photoperiod-driven maturity (which allows the plant to delay flowering until the days get longer in spring, therefore potentially mitigating frost risk).

AGT-Colt^ϕ has advanced through our breeding program to answer calls from growers looking for an updated Yitpi^ϕ type; something growers have not had access to since Cutlass^ϕ was released ten seasons ago.

AGT-Colt^ϕ performs best relative to comparators when subject to an elongated season, either through early germination (late April to early May in SA/Vic) or a longer, favourable spring, and less so in later, main season sowings. Therefore we see AGT-Colt^ϕ as primarily a risk mitigation tool, to be used in areas concerned with high disease pressure or perhaps frost; or for those that are looking to take advantage of earlier planting opportunities into a wet soil profile.

Table 1. Specifications

Background

Tested as	RAC3254
Released	2025
EPR rate	\$3.90/tonne + GST

Disease

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

Plant Characteristics

Maturity speed^	Mid-slow
Maturity habit^	Spring
Sowing window^	Early & Main
Novel herbicide tolerance^	None (conventional tolerance)
Head type^	Awned
Plant height^	Moderately tall
Coleoptile length^	Moderate
Lodging tolerance^	MII

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^∘	MI
Black Point resistance*	NA

Legend

R	Resistant	VI	Very Intolerant	∘	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: https://bit.ly/TraitRatings
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				

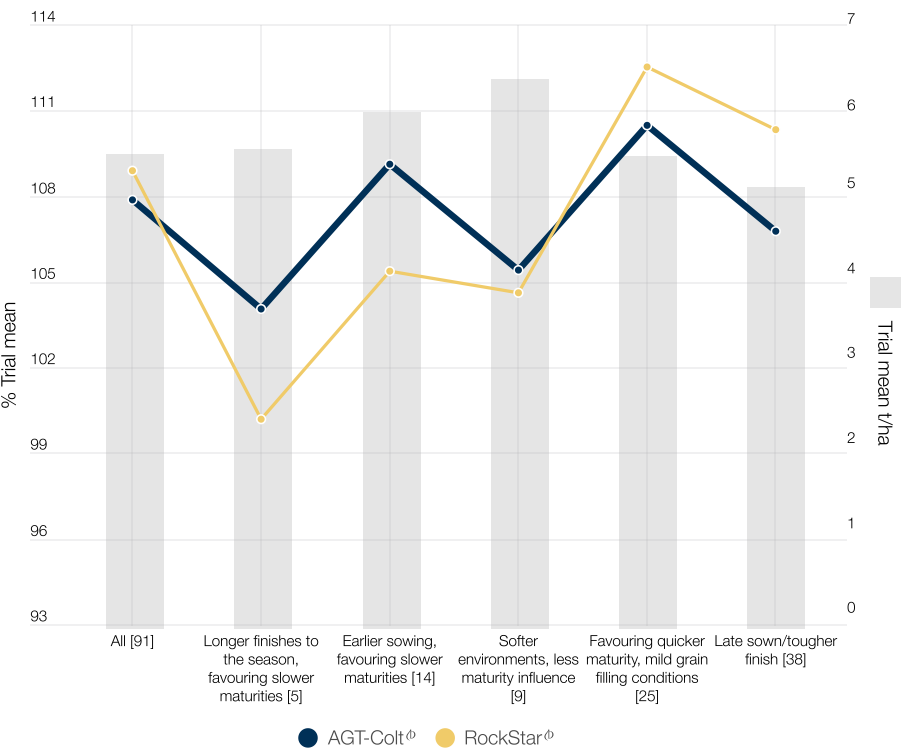
Grain yield

Long term AGT yield results from early sown trials have shown that AGT-Colt[®] performs similarly over-all to popular variety RockStar[®], but its best performance is recorded in seasons that experience either an early sowing opportunity, or longer finish to the season. In environments and seasons that are shorter or tougher, AGT-Colt[®] does not perform as well as RockStar[®] (Figure 1).

Limited early sown NVT data has shown that again, AGT-Colt[®] yielded similarly to RockStar[®], and has out-yielded other photoperiod sensitive variety Cutlass[®] (Figure 2).

When sown in the main season NVT trials, AGT-Colt[®] has not yielded as well as the quicker maturing variety RockStar[®] or widely grown variety Scepter[®]. Although still out-yielding Cutlass[®] at later sowings, we believe that AGT-Colt[®] needs to be germinating in late April to early May to extract the most potential out of the variety (Figure 3).

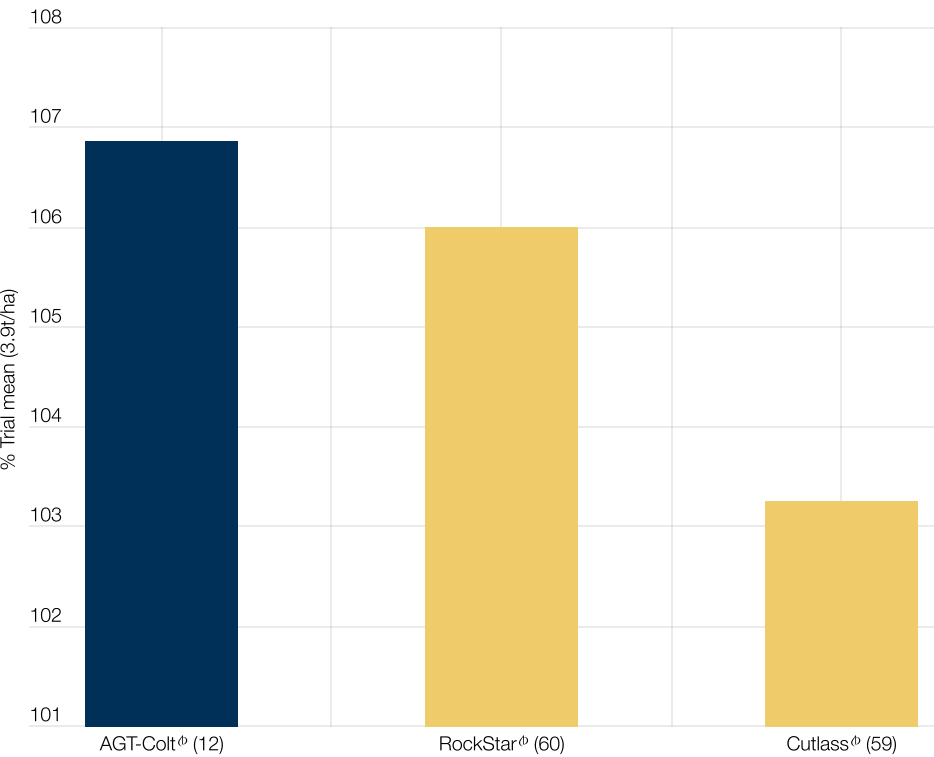
Figure 1. Predicted grain yield of AGT-Colt[®] versus RockStar[®] - AGT data



Source: AGT long term MET analysis, early sown trials 2021-2024 (91 trials across WA, SA, Vic)
[] : Total number of trials per region

Grain yield

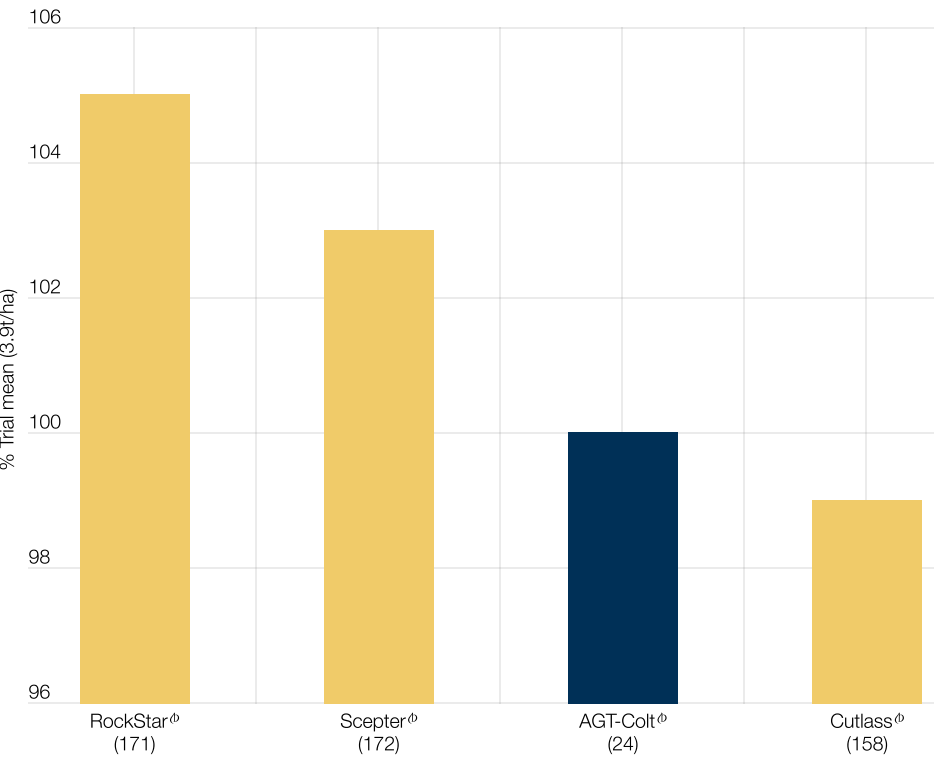
Figure 2. Predicted grain yield of AGT-Colt[®] versus comparators - early sown NVT



Source: NVT long term MET analysis, early sown trials 2020-2024 (60 trials across WA, SA, western Vic)

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

Figure 3. Predicted grain yield of AGT-Colt[®] versus comparators - main season NVT



Source: NVT long term MET analysis, main season trials 2020-2024 (172 trials across SA/Vic)

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

Variety comparisons

Reproductive maturity of AGT-Colt[®] is driven by photoperiod (daylength), meaning flowering should be delayed until the days get a little longer in spring. Other photoperiod responsive varieties like Yitpi[®] and Cutlass[®] have been used as frost mitigation tools in the past, and we see AGT-Colt[®] following suit.

AGT-Colt[®] has an AH quality classification in SA and Victoria, and produces grain with low screenings levels and moderate test weight, similar to Scepter[®] and RockStar[®].

AGT-Colt[®] has a spectacular disease resistance profile, offering excellent resistance to the three rusts, adequate resistance to powdery mildew and septoria tritici, and importantly for Mallee farmers, good resistance to CCN and yellow leaf spot. AGT-Colt[®] is the first 'Yitpi' type variety to hold good resistance to yellow leaf spot.

AGT-Colt[®] is a moderately tall variety and is slightly less tolerant to lodging than Cutlass[®].

Table 2. Variety comparisons

		AGT-Colt [®]	Cutlass [®]	RockStar [®]
Disease	Stem Rust resistance*	MR (P)	R	MRMS
	Stripe Rust resistance*	MR (P)	MSS	S
	Leaf Rust resistance*	MR (P)	RMR	S
	Yellow Leaf Spot resistance*	MRMS (P)	MSS	MRMS
	Powdery Mildew resistance*	MSS (P)	MSS	SVS
	Septoria Tritici Blotch resistance*	MSS (P)	MSS	S
	CCN resistance^	R (P)	MR	MSS
	Pratylenchus Neglectus resistance*	NA	MSS	MRMS
	Pratylenchus Neglectus tolerance*	NA	MT	I
	Eyespot resistance*	NA	NA	S
Plant Characteristics	Crown Rot resistance*	NA	S	S
	Maturity speed^	Mid-slow	Mid-slow	Mid-slow
	Maturity habit^	Spring	Spring	Spring
	Sowing window^	Early & Main	Early & Main	Early & Main
	Novel herbicide tolerance^	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)
	Head type^	Awned	Awned	Awned
	Plant height^	Moderately tall	Moderate	Moderately short
	Coleoptile length^	Moderate	Long	Short
Abiotic Stress	Lodging tolerance^	MII	MI	MTMI
	Boron tolerance^	Carries tolerance gene	Carries tolerance gene	Does not carry tolerance gene
Grain Quality	Acid/aluminium tolerance^	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene
	Quality classification	AH	APW	AH
	Grain colour	White	White	White
	Screenings level^	Low	Low	Low
	Test weight^	Moderate	High	Moderate
	Sprouting tolerance^o	MI	MI	I
	Black Point resistance*	NA	MS	MSS



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 TM initiative (www.agtbreeding.com.au/seedsharing)

PBR and EPR

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.

Contact

Brad Koster, Variety Support Manager SA:	0400 812 475
Rob Harris, Variety Support Manager Vic:	0429 576 044
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.