



2026
Western Australia
Field Crop Variety Guide



Variety Quick Guide

Western Australia

	Crop Type	Variety	Quality Classification	Planting Window			Herbicide Tolerance	More Information
				Early	Main	Late		
Page 8	Wheat	AGT-Carnac [®] New	ANW		✓	✓	-	Page 14
		AGT-Hamelin [®] New	AH	✓	✓		-	Page 16
		Rottnest [®]	ANW		✓	✓	-	Page 18
		Shotgun [®]	AH		✓	✓	-	Page 20
		Tomahawk CL Plus [®]	APW		✓	✓	Clearfield [®] (Intervix [®])	Page 22
Page 26	Barley	AGT-Bunyip IA [®] New	Feed*		✓	✓	Imidazolinone herbicide + CoAXium [®] (Aggressor [®] herbicide)	Page 28
		Bigfoot CL [®]	Feed		✓	✓	Clearfield [®] (Intervix [®])	Page 32
		Cyclops [®]	Malt		✓	✓	-	Page 34
		PegasusAX [®]	Feed		✓	✓	CoAXium [®] (Aggressor [®])	Page 36
		Titan AX [®]	Feed*		✓		CoAXium [®] (Aggressor [®])	Page 38
Page 40	Canola	AGT-Insurgent TT [®] New	CAN		✓	✓	Triazine	Page 42
Page 46	Lupin	Rosemont [®]	Feed		✓	✓	Metribuzin	Page 48

*Under malt evaluation

Thank you!

For paying End Point Royalties.

Your honest declaration of varieties at point of sale allows us to continue developing improved field crop varieties for you to grow.

- › EPRs are payable on all AGT varieties and a Harvest Declaration must be accurately completed each year
- › Most bulk grain buyers automatically deduct EPR's and pay this money back to the breeder on your behalf – correct variety declaration matters!
- › EPRs are the only way that AGT generates income to continue breeding

Your EPR's have allowed AGT to grow over our 23 year history. From our beginnings as a small wheat breeding company, EPRs have enabled us to better serve you by:



› Expanding into breeding other field crop types which now include durum, barley, lupin and canola in addition to spring and winter wheat



› Increasing rates of genetic gain with the use of state-of-the-art greenhouses and controlled environment rooms



› Investing in the latest plant breeding technologies including machine learning, robotics, DNA based selection, and advanced data management and analysis



› Building Australia's first in-house tech support team that is fully integrated with the breeding programmes



› Developing high-tech quality laboratories for wheat, barley, durum, canola and lupins to make sure the varieties you grow meet end-use requirements



› Building a world-class breeding facility at Roseworthy, SA



› Purchasing secure irrigated land at Wagga Wagga and Narrabri, NSW, for breeding trial & seed production work



› Developing a breeding centre in Northam, WA, dedicated to servicing Western Australian growers

PBR and EPR

Variety	EPR rate per tonne (excluding GST)
AGT-Carnac [®] wheat	\$3.90
AGT-Hamelin [®] wheat	\$3.90
Rottnest [®] wheat	\$3.90
Shotgun [®] wheat	\$3.90
Tomahawk CL Plus [®] wheat	\$4.15
AGT-Bunyip IA [®] barley	\$5.50
Bigfoot CL [®] barley	\$4.35
Cyclops [®] barley	\$4.00
PegasusAX [®] barley	\$4.15
Titan AX [®] barley	\$4.55
AGT-Insurgent TT [®] canola	\$11.00
Rosemont [®] lupin	\$4.50

Varieties denoted by the (D) 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.

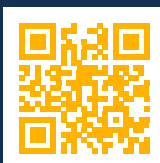
Growers of PBR protected varieties will be subject to a Growers License Agreement that acknowledges that an EPR must be paid on all production other than seed saved for planting.

Field crop variety agronomic trait ratings - 2025



Helping farmers and agronomists make even more informed choices when it comes to what varieties to grow.

Download your free copy here:



AGT launches variety agronomic trait comparative ratings to aid better decision making

Leading field crop breeder Australian Grain Technologies (AGT) have launched a resource that will help farmers and agronomists make even more informed choices when it comes to what varieties to grow.

The first of its kind, the publication brings together many years of data collection by AGT's team across Australia.

Covering major cereal crops wheat, barley and durum, and important grain legume lupin, the publication provides ratings, descriptions, and relative rankings between varieties on traits not usually provided by other industry parties. Traits include plant height, coleoptile length, sprouting tolerance, and physical grain quality characteristics, amongst others.

CEO of AGT, Haydn Kuchel, is excited that the AGT team is able to help fill this knowledge gap.

"Information on variety yield and resistance to major diseases is readily available, and the GRDC through the NVT system does a great job at collecting and disseminating that data. However, typically there hasn't been much information published on other traits that growers constantly ask us about, such as lodging tolerance.

"Many of these traits have to be collected opportunistically, because they only happen under certain circumstances. When one of our team sees something happening in a trial, they score it.

"We've been collecting data for many years to use for our internal decision making, and we thought that the wider industry would benefit from the same information.

"Our in-house bioinformatics team have analysed close to two hundred thousand datapoints to provide, what we believe is the most comprehensive and robust dataset ever produced on these particular traits.

Along with the standalone booklet, the new agronomic ratings will be found on AGT variety fact sheets alongside disease ratings and yield data, aiming to provide growers with a full picture of what to expect from a variety.

Wheat

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>

Hard wheat variety comparisons

		AGT-Hamelin [◊]	Shotgun [◊]	Calibre [◊]	Catapult [◊]	Denison [◊]	Devil [◊]	RockStar [◊]	Scepter [◊]	Thumper [◊]	Vixen [◊]
Disease	Stem Rust resistance*	MRMS (P)	MRMS	MR	MR	MS	S	MRMS	MRMS	MS	MRMS
	Stripe Rust resistance*	MR	RMR	RMR	RMR	MR	RMR	RMR	RMR	RMR	MR
	Leaf Rust resistance*	MR (P)	MSS	S	S	S	SVS	S	MSS	MSS	SVS
	Yellow Spot resistance*	MRMS (P)	MRMS	MRMS	MRMS	MRMS	MRMS	MRMS	MRMS	MRMS	MRMS
	Powdery Mildew resistance*	MSS (P)	MSS (P)	MSS	S	S	NA	MSS	S	S (P)	SVS
	Septoria Nodorum Blotch (Glume) resistance*	NA	MSS (P)	MSS	NA	MRMS	NA	NA	NA	S (P)	NA
	Septoria Nodorum Blotch (Leaf) resistance*	NA	MRMS (P)	MS	NA	MR	NA	NA	NA	MRMS (P)	NA
Plant Characteristics	Maturity speed^	Mid-slow	Quick-mid	Quick	Mid-slow	Slow	Quick-mid	Mid-slow	Mid	Quick-mid	Very quick-quick
	Maturity habit^	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring
	Sowing window^	Early & Main	Main & Late	Main & Late	Early & Main	Early & Main	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)	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)
	Head type^	Awned	Awned	Awned	Awned	Awned	Awned	Awned	Awned	Awned	Awned
	Plant height^	Moderately short	Moderately short	Moderate	Moderate	Moderately short	NA	Moderately short	Moderate	NA	Short to moderately short
	Coleoptile length^	Short	Short	Long	Short	Moderate	NA	Short	Short	NA	Short
Abiotic Stress	Lodging tolerance^	MTMI	MTMI	MII	MI	MI	NA	MTMI	MI	NA	MTMI
	Boron tolerance^	Does not carry tolerance gene	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	NA	Does not carry tolerance gene	Carries tolerance gene	NA	Does not carry tolerance gene
Grain Quality	Acid/aluminium tolerance^	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	NA	Carries tolerance gene	Carries tolerance gene	NA	Carries tolerance gene
	Quality classification	AH	AH	AH	AH	APW	AH (N)	AH (N)	AH	AH	AH (N)
	Grain colour	White	White	White	White	White	White	White	White	White	White
	Screenings level^	Low	Low	Low	Low	Moderate	NA	Low	Low	NA	Low
	Test weight^	Very high	Moderate	Low	High	Moderate	NA	Moderate	High	NA	Moderate
	Sprouting tolerance^◊	MI	MII	MII	MII	MII	NA	I	MII	NA	IVI
	Black Point resistance*	NA	S (P)	MSS	S	MS	MSS	MSS	MS	SVS (P)	MSS

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Udon noodle wheat variety comparisons

		AGT-Carnac ^d	Rottne ^d	Firefly ^d	Kinsei ^d	Ninja ^d	Splendid ^d	Zen ^d
Disease	Stem Rust resistance*	MRMS (P)	S (P)	S	MSS	S	MR (P)	S (MRMS)
	Stripe Rust resistance*	RMR	MRMS	MS	MRMS	MS	RMR (P)	MR
	Leaf Rust resistance*	MSS (P)	VS (P)	MSS	MS	S	MSS (P)	S
	Yellow Spot resistance*	MRMS (P)	MRMS (P)	MRMS	MS	MRMS	MRMS (P)	MRMS
	Powdery Mildew resistance*	S (P)	SVS (P)	MSS	NA	NA	SVS (P)	NA
	Septoria Nodorum Blotch (Glume) resistance*	NA	NA	MSS	NA	NA	NA	NA
	Septoria Nodorum Blotch (Leaf) resistance*	NA	NA	MRMS	NA	NA	NA	NA
Plant Characteristics	Maturity speed^	Mid	Mid	Mid	Mid-slow	Mid	Quick-mid	Mid
	Maturity habit^	Spring	Spring	Spring	Spring	Spring	Spring	Spring
	Sowing window^	Main & Late	Main & Late	Main & Late	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)	None (conventional tolerance)	None (conventional tolerance)
	Head type^	Awned	Awned	Awned	Awned	Awned	Awned	Awned
	Plant height^	Moderate	Moderate	Moderate	Moderately short	Moderately short	NA	Short to moderately short
	Coleoptile length^	Short	Short	Short	Short	Short	NA	Short
Abiotic Stress	Lodging tolerance^	MTMI	MTMI	MTMI	MI	MTMI	NA	MTMI
	Boron tolerance^	Carries tolerance gene	Does not carry tolerance gene	Does not carry tolerance gene	Does not carry tolerance gene	Does not carry tolerance gene	NA	Does not carry tolerance gene
	Acid/aluminium tolerance^	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	NA	Carries tolerance gene
Grain Quality	Quality classification	ANW	ANW	ANW	ANW	ANW	ANW	ANW
	Grain colour	White	White	White	White	White	White	White
	Screenings level^	Low	Moderate	Moderate	Low	Low	NA	Very low
	Test weight^	High	Moderate	Moderate	Moderate	Moderate	NA	Moderate
	Sprouting tolerance^o	I	MII	NA	I	I	NA	MII
	Black Point resistance*	NA	NA	S	S	MRMS	NA	MRMS

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◦ Rating based on Germination Index Values
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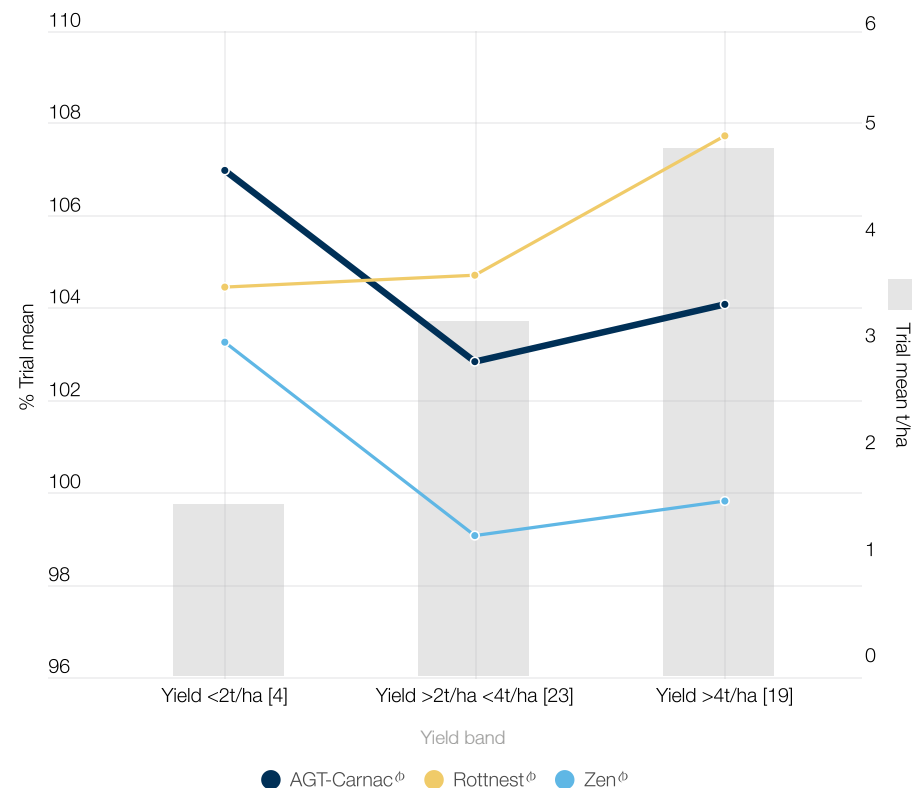
Clearfield® wheat variety comparisons

	Tomahawk CL Plus [®]	Chief CL Plus [®]	Dozer CL Plus [®]	Hammer CL Plus [®]	LRPB Anvil CL Plus [®]	Valiant CL Plus [®]
Disease	Stem Rust resistance*	MR	MR	MS	MR	MRMS
	Stripe Rust resistance*	RMR	S	MRMS	RMR	RMR
	Leaf Rust resistance*	S	MR	S	S	S
	Yellow Spot resistance*	MRMS	MRMS	MRMS	MRMS	MRMS
	Powdery Mildew resistance*	S	S	S	NA	S
	Septoria Nodorum Blotch (Glume) resistance*	S	NA	MSS	MRMS	MSS
	Septoria Nodorum Blotch (Leaf) resistance*	MRMS	NA	MRMS	MRMS	MSS
Plant Characteristics	Maturity speed^	Quick-mid	Mid	Quick-mid	Quick-mid	Quick
	Maturity habit^	Spring	Spring	Spring	Spring	Spring
	Sowing window^	Main & Late	Main & Late	Main & Late	Main & Late	Early & Main
	Novel herbicide tolerance^	Clearfield® Plus (Intervix® herbicide)	Clearfield® Plus (Intervix® herbicide)	Clearfield® Plus (Intervix® herbicide)	Clearfield® Plus (Intervix® herbicide)	Clearfield® Plus (Intervix® herbicide)
	Head type^	Awed	Awed	Awed	Awed	Awed
	Plant height^	Moderate	Moderately short	NA	Moderate	NA
	Coleoptile length^	Short	Short	NA	Short	NA
	Lodging tolerance^	MTMI	MTMI	NA	MII	NA
Abiotic Stress	Boron tolerance^	Carries tolerance gene	Does not carry tolerance gene	NA	Does not carry tolerance gene	NA
	Acid/aluminium tolerance^	Carries tolerance gene	Carries tolerance gene	NA	Carries tolerance gene	NA
Grain Quality	Quality classification	APW	APW (N)	APWN (N)	AH (N)	AH
	Grain colour	White	White	White	White	White
	Screenings level^	Low	Low	NA	Moderate	NA
	Test weight^	Moderate	Moderate	NA	High	NA
	Sprouting tolerance^◦	I	MII	NA	MII	NA
	Black Point resistance*	S	MS	MRMS	MRMS	S



- Elite yield, particularly in low-medium yielding environments
- Udon noodle (ANW) quality
- An ideal replacement for popular variety Zen^ϕ
- Best suited to tougher environments and seasons
- Excellent physical grain quality with low screenings and high test weights
- Mid season maturity, similar to Rottnest^ϕ, Zen^ϕ and Ninja^ϕ
- Good yellow spot resistance

Grain yield of AGT-Carnac^ϕ versus comparators - yield bands - NVT data



Source: NVT main season trial series 2024

[] : Total number of trials per yield band

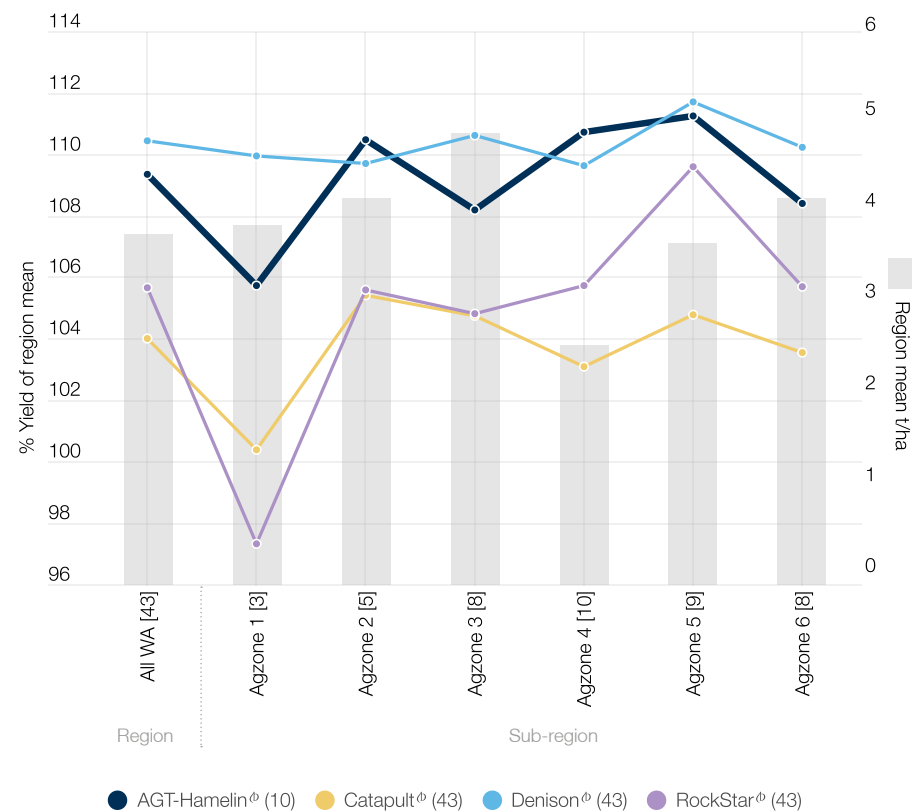
More information





- Mid-slow maturity, suited to both early and main season sowings
- Alternative to RockStar[®], Denison[®] and Catapult[®]
- Very good physical grain quality package, with an AH quality classification, very high test weight, low screenings and good sprouting tolerance
- High yields across a range of germination dates
- Good disease resistance package, with improved rust, yellow spot and powdery mildew resistance
- Moderately short plant type, contributing to good standability

Predicted grain yield of AGT-Hamelin[®] versus comparators across WA regions - NVT early sown data



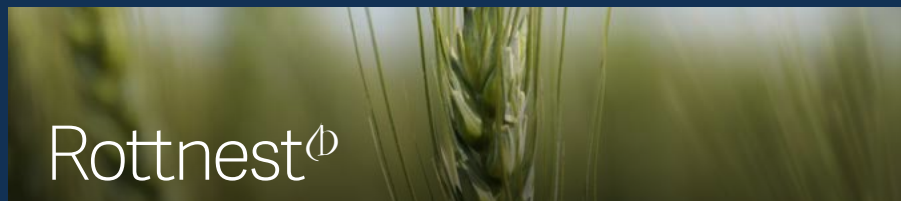
Source: NVT long term MET analysis, early sown trial series 2020-2024

[] : Total number of trials per region

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

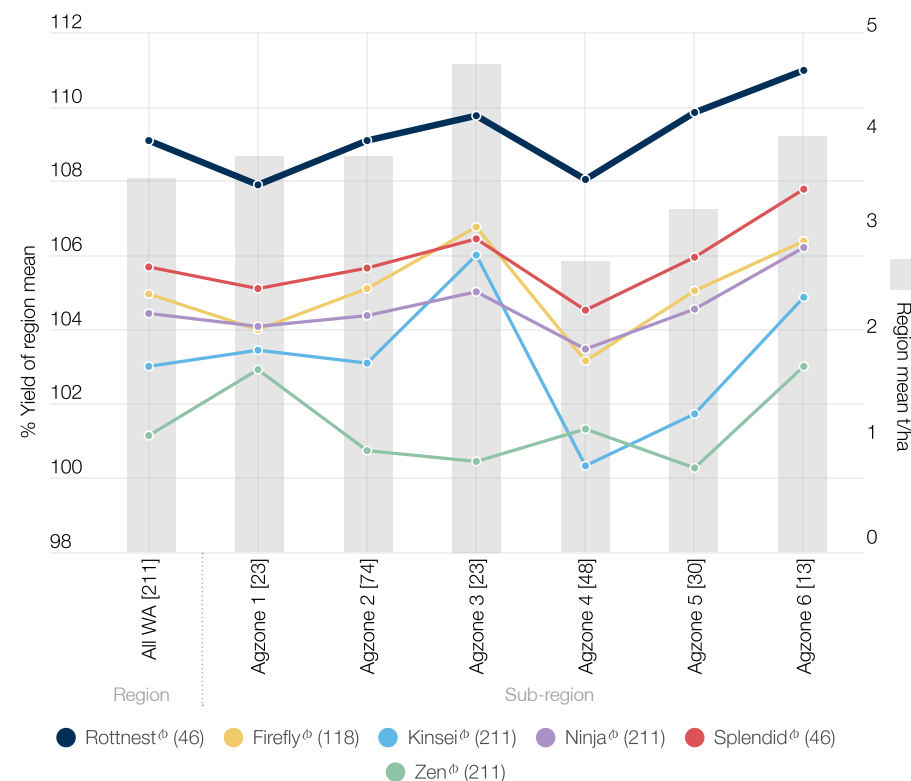
More information





- An udon noodle wheat in a Scepter[®] plant type
- Offering a substantial yield improvement over currently grown udon noodle varieties
- Very broadly adapted with stable yield across a range of environments
- Mid season maturity, similar to Scepter[®]
- Physical grain quality characteristics similar to Ninja[®]
- Good yellow spot resistance
- ANW quality classification

Predicted grain yield of Rottnest[®] versus comparators across WA regions - NVT data



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

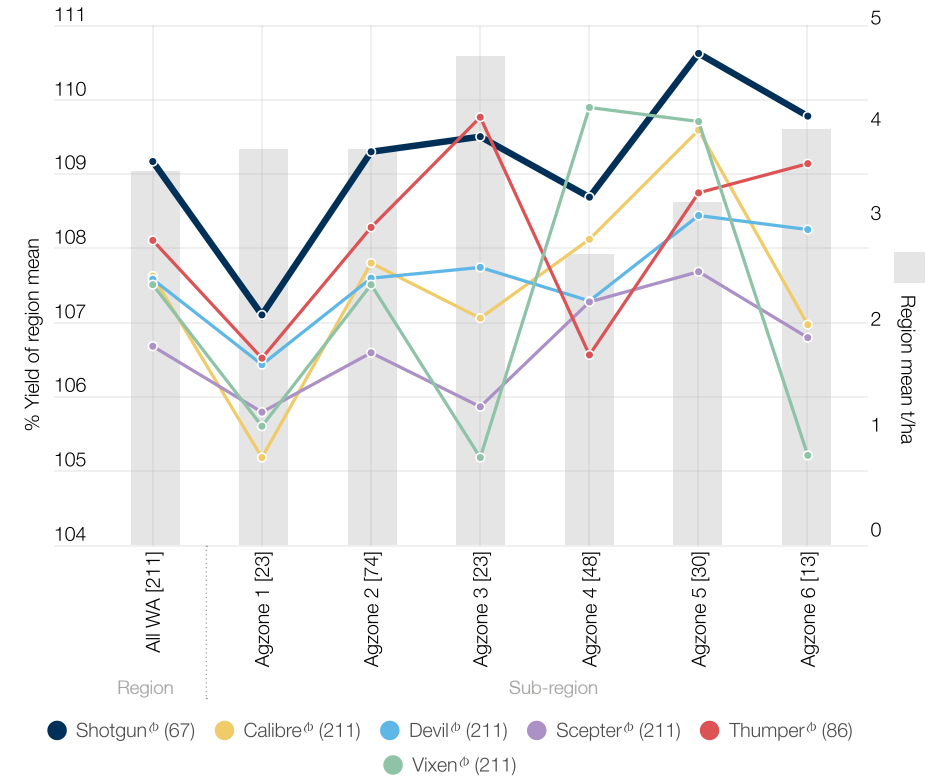
More information





- 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

Predicted grain yield of Shotgun[®] 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

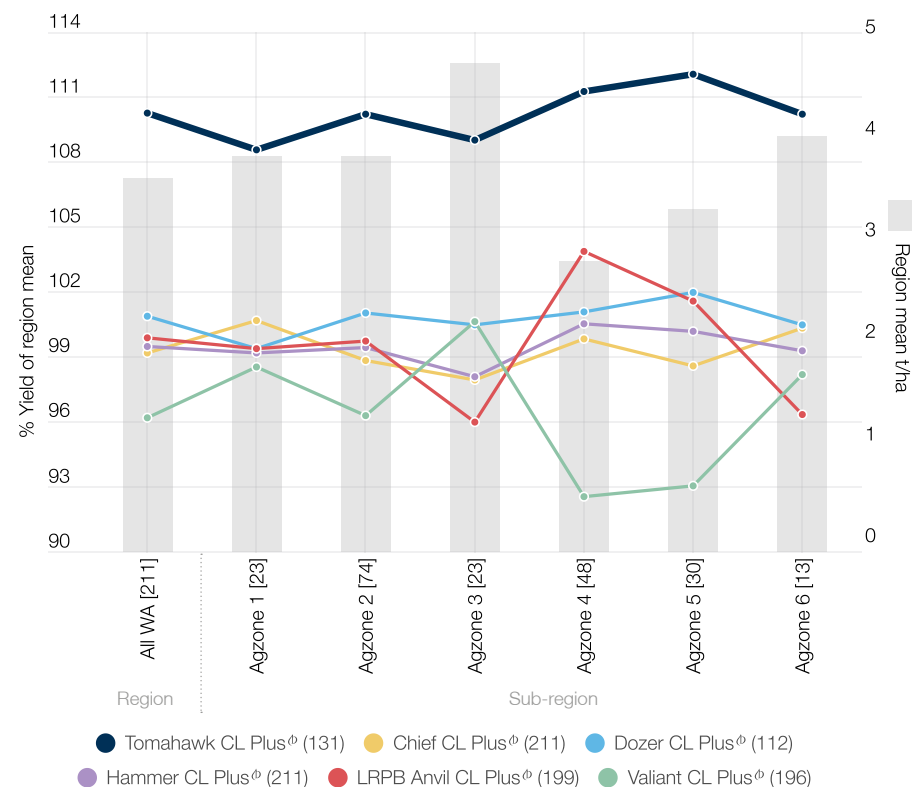
More information





- 'Scepter[®]' type Clearfield[®] variety with increased yields over Scepter[®]
- The highest yielding Clearfield[®] wheat variety across WA
- Tolerant to Clearfield[®] Intervix[®] herbicide
- Similar disease resistance profile as Scepter[®]
- Similar grain size and test weight as Scepter[®]
- Quick-mid season maturity, very similar to Scepter[®]
- APW quality classification
- Now able to be traded between growers as part of AGT's Seed Sharing[™] initiative

Predicted grain yield of Tomahawk CL Plus[®] versus 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



More information



AGT launch WA-Bred Wheat Varieties For Local Growers

Leading field crop variety breeder Australian Grain Technologies (AGT) have released two new wheat varieties designed to give WA growers more choice, flexibility and performance: AGT-Carnac[®] and AGT-Hamelin[®].

Developed at AGT's Western Crop Breeding Centre in Northam, both varieties were officially launched at the Liebe Group Spring Field Day on Thursday 11th September in front of a highly engaged and enthusiastic crowd.

Following the success of AGT's first udon noodle wheat variety Rottnest[®], AGT-Carnac[®] arrives as its complementary partner – built for the tougher end of the udon wheat growing spectrum. With elite yield potential in low to medium yielding environments, AGT-Carnac[®] has delivered more than 6% higher yields than Zen in sub two tonne per hectare NVT trials.

Like Rottnest[®], AGT-Carnac[®] has an ANW quality classification and yellow spot resistance, but also offers improved grain size and higher test weights.

AGT udon wheat breeder Dr. Usman Ijaz said AGT-Carnac[®] provides growers with a clear upgrade over currently grown varieties.

"Growers who've relied on Zen[®] for a few years now have a better option. AGT-Carnac[®] performs where some other varieties start to struggle, delivering high relative yields when conditions tighten".

With a mid-slow maturity, AGT-Hamelin[®] is well suited to both early and main season sowings, providing a strong alternative to Rockstar[®], Denison[®] and Catapult[®] across WA. AGT-Hamelin has an AH quality classification, coupled with very high test weights, low screenings, excellent sprouting tolerance and a good disease resistance package.

Dr. Dion Bennett, AGT's Northam based wheat breeder, said AGT-



AGT breeders Dion Bennett and Usman Ijaz.

Hamelin[®] was developed with modern farming systems in mind.

"Farmers are sowing earlier than ever to cover bigger programs, whether it's into early moisture, or dry" Dr. Bennett said.

"Hamelin[®] should give growers confidence because it maintains high yield across a wide range of

germination dates better than the current options in Rockstar[®], Denison[®] and Catapult[®], whilst offering a high level of disease resistance and grain quality".

Seed of AGT-Carnac[®] and AGT-Hamelin[®] is available now through AGT Affiliates and local retailers.

Barley

Barley variety comparisons

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

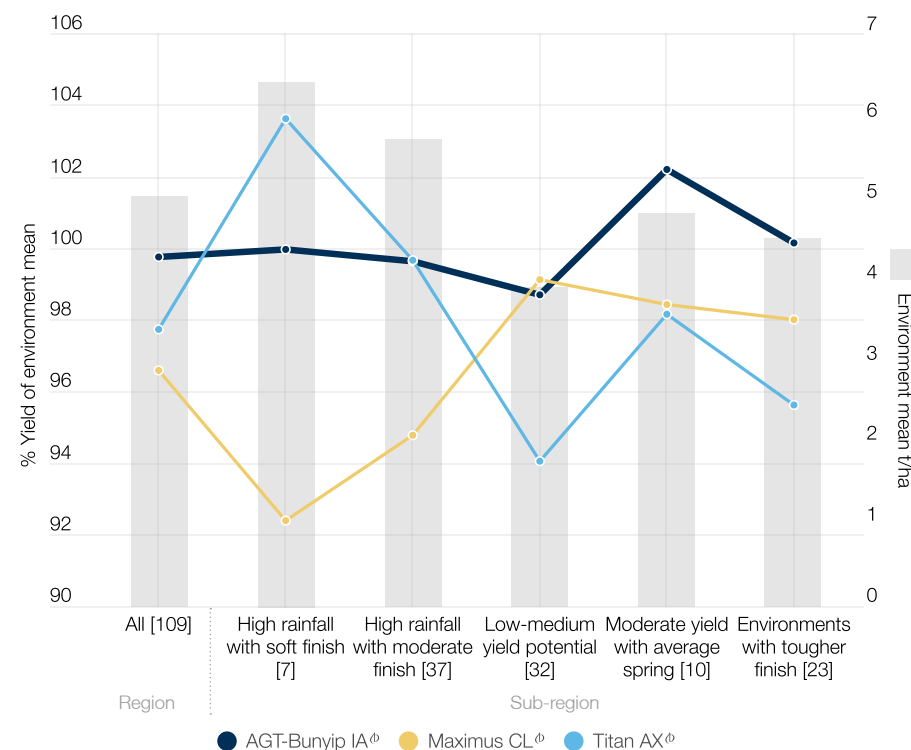
May be more susceptible to alternate pathotypes
* NVT consensus ratings 2025
◦ Rating based on Germination Index Values
^ AGT ratings/data interpretation. Comprehensive AGT agronomic trait ratings and data can be found at: <https://bit.ly/TraitRatings>

		AGT-Bunyip IA [◦]	Bigfoot CL [◦]	Cyclops [◦]	PegasusAX [◦]	Titan AX [◦]	Beast [◦]	Commodus CL [◦]	Maximus [◦] CL	Neo [◦] CL
Disease	Leaf Rust resistance*	MSS	S	S	MR	S	S	SVS	S	MS
	Powdery Mildew resistance*	S	RMR	R	MS	RMR	RMR	RMR	RMR/S	Rp
	Net Blotch (Net Form) resistance*	MRMS-S	MRMS	MR-MS	MRMS	MRMS-S	MRMS-S	MRMS-S	MRMS-S	MRMS-MSS
	Net Blotch (Spot Form) resistance*	MRMS	MS	S	MSS	MS	S	MSS	MSS	MRMS
	Scald resistance*	MS	Sp	MRMS	MS	S	S	MSS	MR	MRMS
	Barley Yellow Dwarf Virus resistance*	MS	MS	MSS	MS	MS	MS	MRMS	MRMS	MRMS
	Crown Rot resistance*	MSS (P)	MSS (P)	MSS	MSS (P)	MSS	S	S	S	VS (P)
Plant Characteristics	Maturity speed^	Quick	Quick	Quick	Quick	Mid	Very quick	Quick	Quick	Mid
	Maturity habit^	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring
	Sowing window^	Main & Late	Main & Late	Main & Late	Main & Late	Main	Main & Late	Main & Late	Main & Late	Main
	Novel herbicide tolerance^	Imidazolinone herbicide + CoAXium® (Aggressor® herbicide)	Clearfield® (Intervix® herbicide)	None (conventional tolerance)	CoAXium® (Aggressor® herbicide)	CoAXium® (Aggressor® herbicide)	None (conventional tolerance)	Clearfield® (Intervix® herbicide)	Clearfield® (Intervix® herbicide)	Clearfield® (Intervix® herbicide)
	Head type^	Awned	Awned	Awned	Awned	Awned	Awned	Awned	Awned	Awned
	Early growth habit^	Erect	Semi-erect	Erect	Erect	Semi-erect	Semi-erect	Semi-erect	Erect	Semi-prostrate
	Plant height^	Moderate	Moderate	Short	Moderate	Very tall	Very tall	Tall	Short	Short
	Coleoptile length^	Short	Long	Short	Short	Moderate	Moderate	Moderate	Very short	Moderate
	Rachilla hair length^	Short	Long	Short	Long	Long	Long	Long	Long	Short
	Lodging tolerance^	MTMI	MTMI	MTMI	MTMI	I	I	I	MT	MTMI
Grain Quality	Quality classification	Potential MALT	FEED	MALT	FEED	Potential MALT	FEED	MALT	MALT	MALT
	Screenings level^	Moderately low	Low	Moderate	Moderately high	Low	Very low	Low	Moderately low	NA
	Retentions level^	High	Very high	Moderately high	Moderately low	High	Very high	High	Moderately high	NA
	Test weight^	Very high	Moderately high	Moderately high	Moderately high	Moderate	Moderate	Moderate	High	NA
	Sprouting tolerance^	MTMI	MI	MTMI	MI	MI	MTMI	MI	MI	NA
Black Point resistance*		MSS (P)	S (P)	MSS	MSS (P)	MSS	MSS	MS	MSS	MRMS (P)



- A world first - dual herbicide tolerant barley variety
- Tolerant to imidazolinone herbicides and Aggressor® herbicide
- Offers flexibility to manage imidazolinone carry-over in soil and also manage problem weeds in-crop
- Higher yielding than most widely grown variety Maximus^{CL}, with very wide adaptation
- Similar plant type and maturity to Maximus^{CL}
- Compact plant type, offering better standability than taller varieties such as Titan AX^{CL}
- Has entered the Grains Australia malt accreditation program but is currently deliverable as Barley/Feed

Predicted grain yield of AGT-Bunyip IA^{CL} versus comparators - AGT data



Source: AGT long term MET analysis, main season trial series 2021-2024

[] : Total number of trials per region



More information



World-First Barley Variety Offers Dual Herbicide Tolerance

Australian Grain Technologies (AGT) has unveiled a breakthrough in barley breeding, releasing the world's first dual herbicide tolerant variety, combining ImiTol™ and CoAXium® technologies.



AGT barley breeders Paul Telfer and Stewart Coventry are excited about the launch of AGT-Bunyip IA[®]

Australian Grain Technologies (AGT) has unveiled a breakthrough in barley breeding, releasing the world's first dual herbicide tolerant variety, combining ImiTol™ and CoAXium® technologies.

The new variety, called AGT-Bunyip IA[®], is tolerant to both imidazolinone herbicides and Aggressor® herbicide, offering growers unprecedented flexibility in managing herbicide carry-over and controlling tough in-crop weeds, particularly brome grass and barley grass.

AGT barley breeder Paul Telfer said the development marked a major step forward for Australian growers.

"AGT-Bunyip IA[®] is the first barley in the world to combine these two powerful herbicide tolerances," Dr Telfer said. "It gives growers real flexibility to manage both herbicide carry-over in their rotations and difficult grass weeds in-crop."

The dual tolerance means growers can confidently sow AGT-Bunyip IA[®] after a Clearfield® or imidazolinone-tolerant crop to mitigate the risk of residual herbicide carry-over. At the same time, Aggressor® herbicide can be used in-crop for robust weed and volunteer cereal control, or either tolerance system can be deployed as needed.

According to AGT, the variety is already showing its strength in yield performance. Trials indicate it

consistently outperforms Maximus[®] CL, currently the most widely grown variety, and is highly adaptable across different environments, from WA to NSW.

The plant type is described as compact, offering improved standability compared to taller varieties such as Titan AX[®], while maintaining a similar maturity and growth habit to Maximus[®] CL.

"We see AGT-Bunyip IA as a natural replacement for Maximus[®] CL," Dr Telfer said. "It maintains the agronomic package growers know and trust, while lifting yields and offering greater herbicide application options."

The variety has also entered the Grains Australia malt accreditation program, but for the time being will be deliverable as Feed.

The dual herbicide tolerance package reflects AGT's ongoing investment in breeding crops that deliver both productivity and practicality on farm.

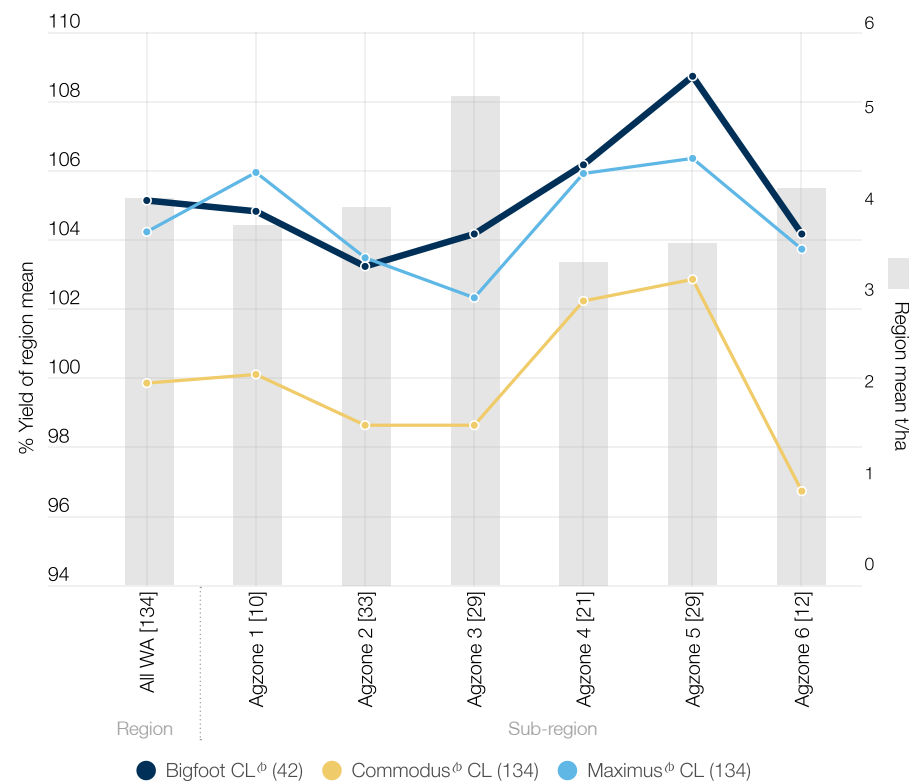
"Our breeding focus is on creating varieties that make life easier and more profitable for growers," Dr Telfer said. "This world-first barley is a prime example of that commitment."

Seed of AGT-Bunyip IA[®] is available now through AGT Affiliates and local retailers.



- A high yielding alternative to Maximus^{CL} CL and Commodus^{CL} CL, with better standability than Commodus^{CL} CL
- Best suited to low-medium rainfall environments
- Tolerant to Clearfield[®] Intervix[®] herbicide
- Good grain size and test weight
- A competitive but shorter plant type, with lower risk of lodging
- FEED quality

Predicted grain yield of Bigfoot CL^{CL} versus comparators across WA regions



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

[] : Total number of trials per region

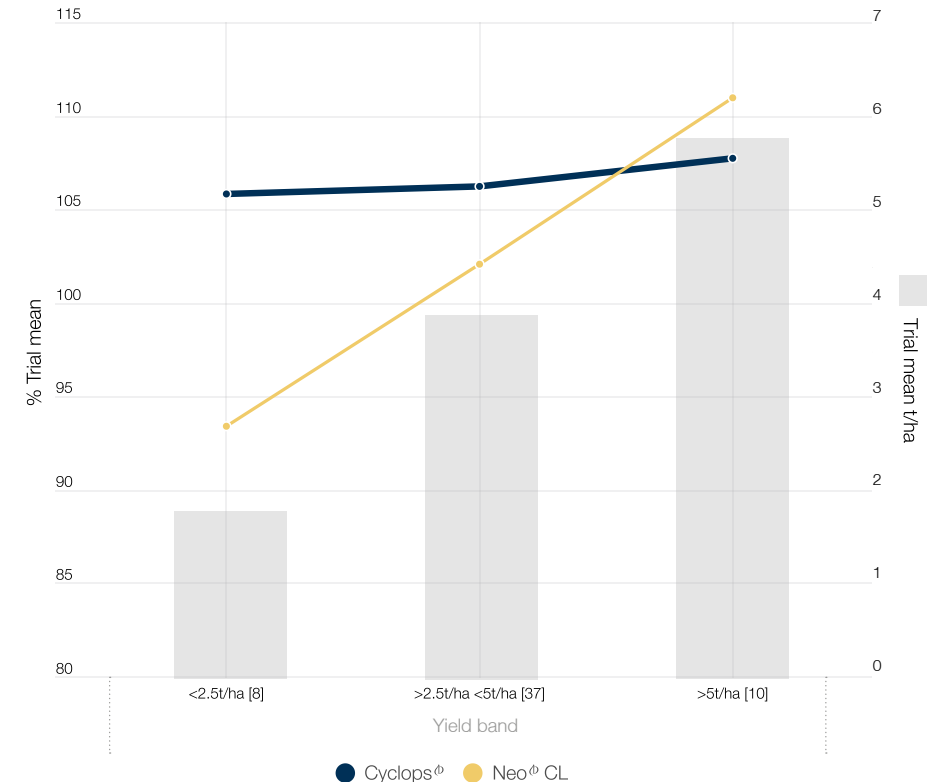
() : Number of trials that each variety was present in across the dataset





- Exceptional yield potential
- Quick maturity, similar to Maximus[®] CL
- Wide adaptation to a range of environments and seasons
- Erect growing Hindmarsh[®] plant type
- Less susceptible to lodging than taller varieties such as Compass[®]
- Competitive physical grain quality package
- Malting quality

Grain yield of Cyclops[®] versus Neo[®] CL - yield bands - NVT data



Source: NVT main season trials, WA sites 2023-2024 (55 sites)

[] : Total number of trials per yield band

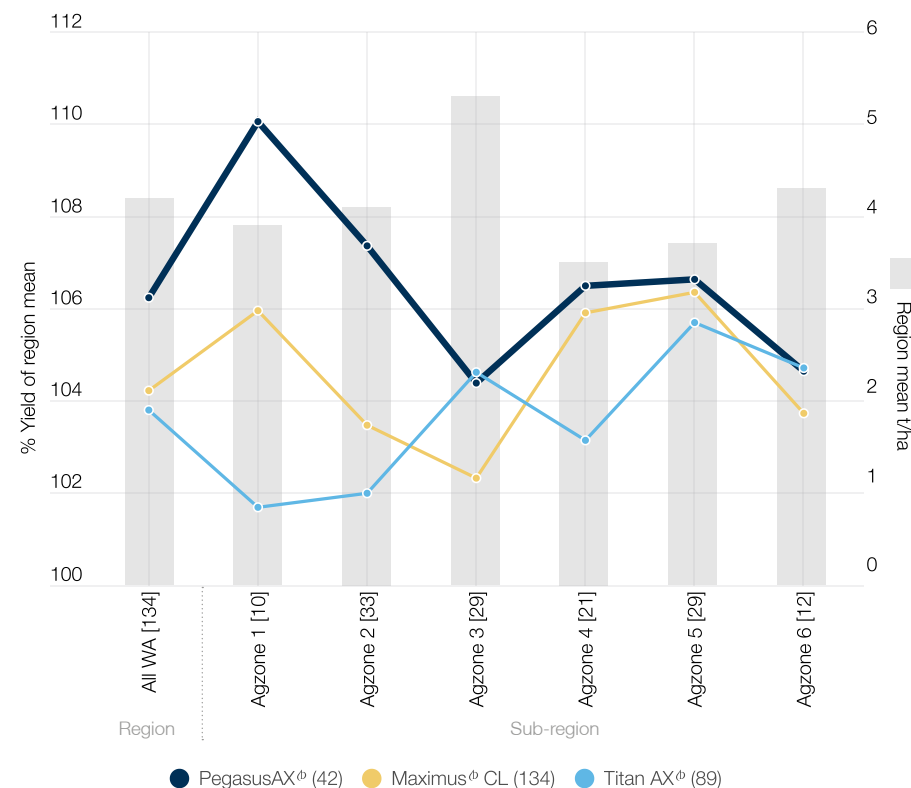
More information





- Carries CoAXium® herbicide tolerance trait (Aggressor® herbicide)
- A derivative of Rosalind^ϕ with a similar plant type, offering a shorter plant structure and lower risk of lodging than the 'Compass^ϕ' plant types like Titan AX^ϕ
- Wide adaptation
- Quick maturity, similar to Maximus^ϕ CL and Rosalind^ϕ
- Similar grain size as some other high yielding feed varieties including Rosalind^ϕ
- FEED quality

Predicted grain yield of PegasusAX^ϕ versus 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



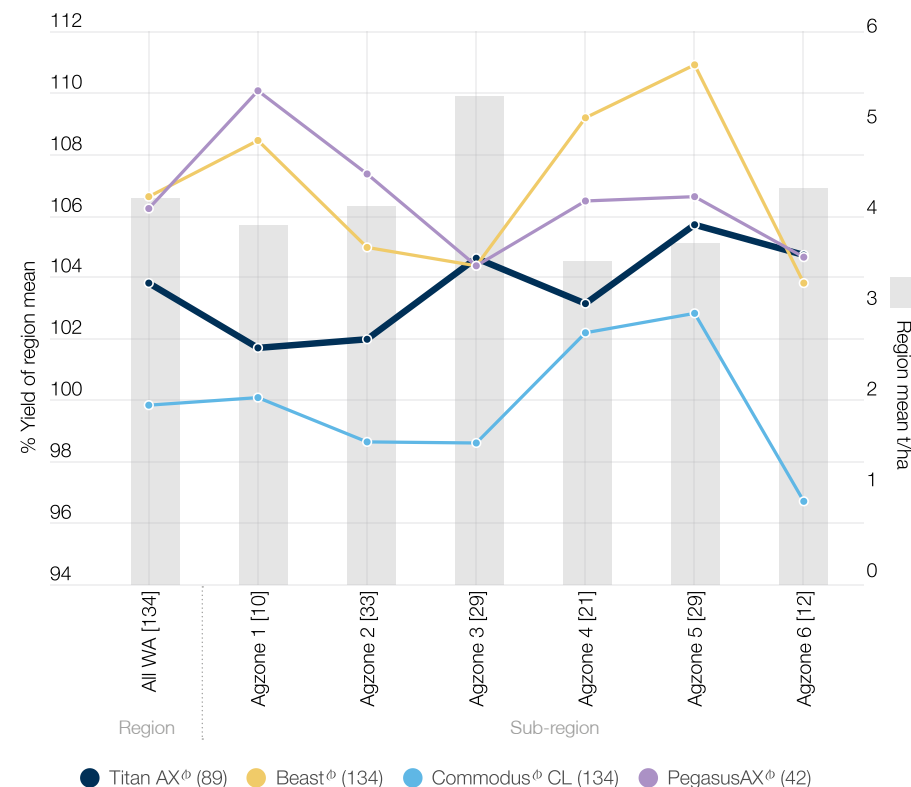
More information





- The world's first CoAXium® barley variety
- Tolerant to Aggressor® (Group 1) herbicide
- Derived from popular variety Compass^ϕ
- Mid season maturity, slightly later than Compass^ϕ, similar to RGT Planet^ϕ
- Wide adaptation but particularly suited to low-medium rainfall or Mallee type environments
- Agronomically very similar to Compass^ϕ
- Has entered the Grains Australia malt accreditation program but is currently deliverable as Barley/Feed

Predicted grain yield of Titan AX^ϕ versus 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



More information



Canola

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
* NVT consensus ratings 2025
^ AGT ratings/data interpretation.

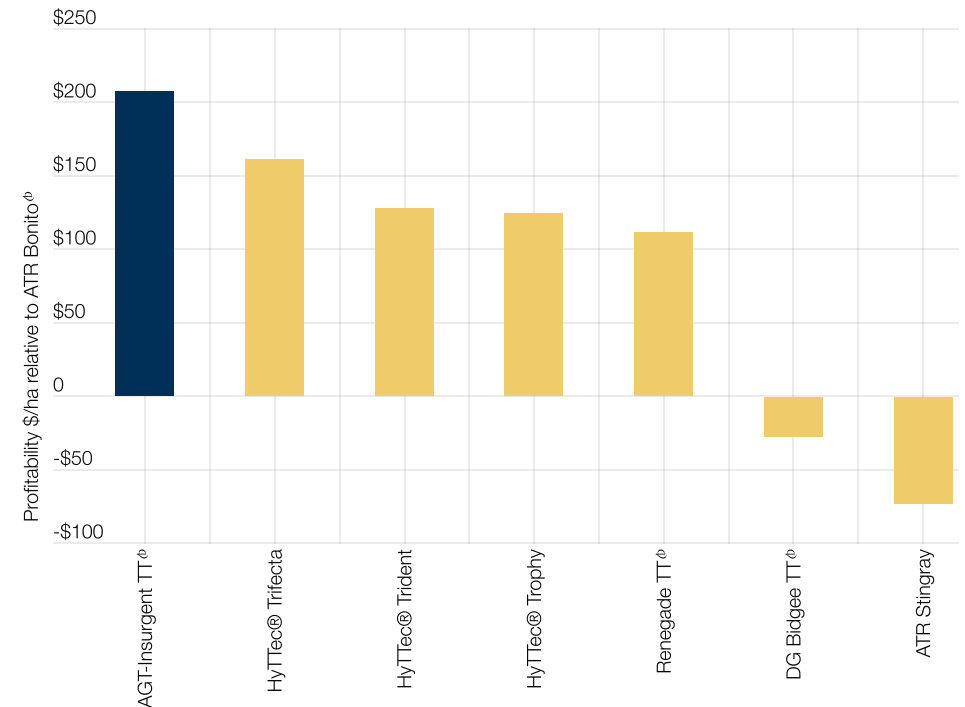
Canola variety comparisons

		AGT-Insurgent TT [®]	HyTTec [®] Trifecta	HyTTec [®] Trident	HyTTec [®] Trophy	Renegade TT [®]	ATR Bonito [®]	DG Bidgee TT [®]	ATR Stingray
Disease	Blackleg resistance group*	NA	ABD	AD	AD	A	A	H	C
	Blackleg resistance (bare)*	MRMS	R	R	R	MR	MS	R	MRMS
	Blackleg resistance (+ Ileva [®] (Fluopyram))*	RMR	R	R	R	R	MR	R	R
	Blackleg resistance (+ Saltro [®] (Pydiflumetofen))*	RMR	R	R	R	R	RMR	R	R
	Blackleg upper canopy infection resistance*	MRMS	MR	MR	MR	MR	MS	R	MRMS
Plant Characteristics	Pollination type	Open Pollinated	Hybrid	Hybrid	Hybrid	Open Pollinated	Open Pollinated	Open Pollinated	Open Pollinated
	Novel herbicide tolerance^	Triazine	Triazine	Triazine	Triazine	Triazine	Triazine	Triazine	Triazine
	Flowering maturity speed^	Mid	Slow	Quick	Mid	Mid	Mid	Mid	Very quick
	Maturity habit^	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring
	Sowing window^	Main & late	Main & late	Main & late	Main & late	Main & late	Main & late	Main & late	Main & late
	Plant height^	Tall	Tall	Tall	Tall	Moderate	Moderate	Tall	Short
	Lodging tolerance^	I	MI	I	MI	MT	MI	MT	MT
	Pod shattering tolerance^	MTMI	MI	IVI	I	MT	MTMI	I	I
Grain Quality	Oil content^	Very high	High	High	Moderate	High	Very high	Moderate	High



- The highest yielding triazine tolerant (TT), open pollinated (OP) canola in AGT and NVT trials
- The most profitable TT canola variety tested nation-wide in AGT trials
- Excellent oil content
- Mid season maturity
- Low cost of seed resulting in lower up-front risk than hybrids
- Ability to retain seed for future plantings ensuring you always have the seed you need
- RMR blackleg rating (with fungicide), MRMS blackleg rating (without fungicide)
- Height and lodging tolerance similar to HyTTec® Trident

Value calculation of AGT-Insurgent TT[®] versus comparators across Australia - Profitability relative to ATR Bonito[®] - AGT data



Source: Calculations based on following assumptions: Price of hybrid canola seed = \$45/kg, price of retained OP canola seed = \$5/kg, currently advertised EPR rate per variety, commodity price of canola at point of delivery = \$800/t, sowing rate = 2.5kg/ha, yield and oil content = long term assessment from AGT trials.

More information



AGT-Insurgent TT[®] Breaks the Mould for Canola Growers

Australian canola growers are set to benefit from a new release that promises to deliver hybrid-like performance without the hybrid price tag.

AGT-Insurgent TT[®], developed by Australian Grain Technologies (AGT), has been described as an “exciting new dawn” in open-pollinated (OP) canola breeding, combining exceptional yield, excellent oil content and low up-front costs.

Canola breeder Dr. Sami Ullah said the variety is about giving growers a better balance of performance and risk.

“AGT-Insurgent TT[®] has the yield levels and oil content that growers expect from a hybrid, but with the flexibility and lower up-front costs of an OP variety,” Dr Ullah said.

“The financial benefits stack up quickly. Lower seed costs reduce risk, and the ability to retain seed or even trade it to another farmer through our Seed Sharing initiative ensures ongoing supply”.

Building on AGT’s first Triazine Tolerant (TT) canola variety Renegade TT[®], AGT-Insurgent TT[®] is the highest yielding OP TT canola available in AGT and NVT testing, and the most profitable TT option for many Australian growers, particularly in low to medium rainfall environments.

Dr Ullah said the launch was the latest step in AGT’s “rebellious” approach to canola breeding.

“There’s a lot of pressure on growers to go hybrid-only, but our program, which began in 2016, has always focused on giving farmers an alternative,” he said. “AGT-Insurgent TT[®] is about delivering strong returns with less up-front risk – and that’s something growers have been asking us for.”

Seed of AGT-Insurgent TT[®] is available now through AGT Affiliates and local retailers.



Sami Ullah, AGT canola breeder, launching AGT-Insurgent TT[®].

Lupin

Lupin variety comparisons

	Rosemont [®]	Coyote [®]	Mandelup [®]	PBA Barlock [®]	PBA Jurien [®]
Disease	Anthracnose resistance*	MRMS	MRMS	MRMS	RMR
	Cucumber Mosaic Virus resistance*	MR	MRMS	MRMS	MS
	Phomopsis (Pod Infection) resistance*	MRMS	MRMS	S	MR
	Phomopsis (Stem Infection) resistance*	MR	S	MR	RMR
	Sclerotinia Stem Rot resistance*	S (P)	S (P)	S (P)	S (P)
	Bean Yellow Mosaic Virus resistance*	MRMS (P)	MR (P)	S (P)	MS (P)
	Grey leaf spot resistance^	NA	NA	NA	NA
Plant Characteristics	Maturity speed^	Quick	Quick	Quick	Quick
	Sowing window^	Main & Late	Main & Late	Main & Late	Main & Late
	Metribuzin tolerance^	T	T	T	T
	Plant height^	Very tall	Tall	Tall	Moderate
	Lodging tolerance^	MT	MT	MTMI	MT
	Flower colour^	Light pink	Dark purple	Light purple	Light purple
Grain Quality	Split seed tolerance^	TMT	TMT	MTMI	MT
	Alkaloid content^	Low	Very low	Low	Low

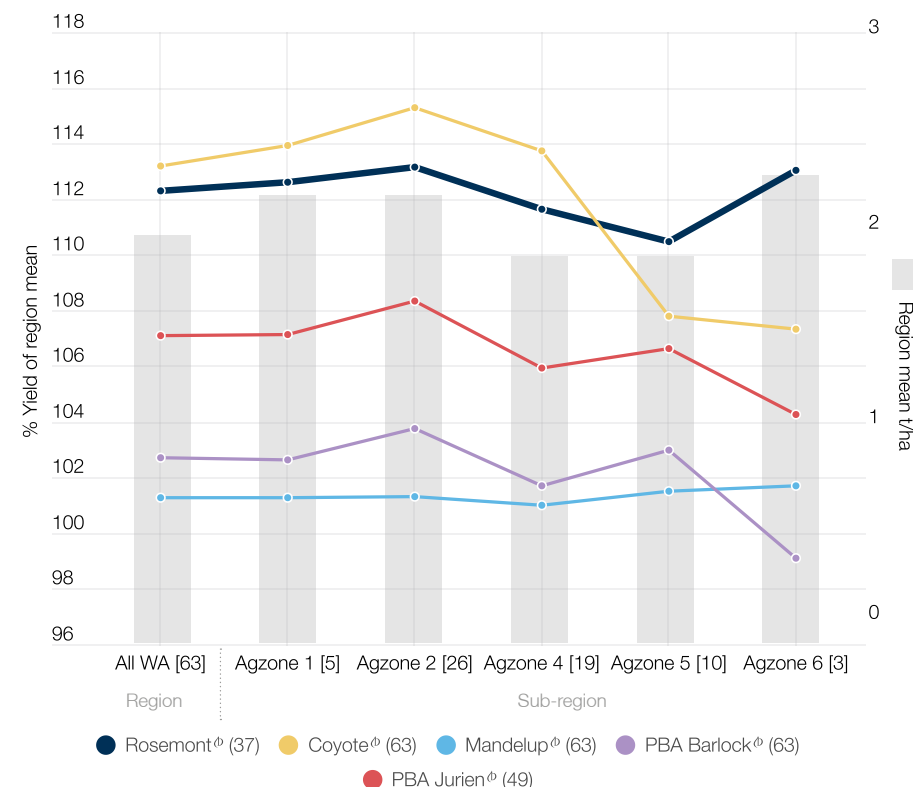
Legend

- 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
- ^ AGT ratings/data interpretation. Comprehensive AGT agronomic trait ratings and data can be found at: <https://bit.ly/TraitRatings>



- A very high yielding alternative to PBR Jurien[®], Coyote[®] and Mandelup[®]
- Best performance in softer finishing situations and southern WA environments
- Unique light pink flower and faintly speckled seed
- Metribuzin tolerant
- Excellent early vigour
- Reduced risk of seed splitting compared with PBA Jurien[®]
- Taller plant height, may improve harvestability
- Moderately resistant to stem Phomopsis
- Good CMV resistance
- Slightly slower maturity relative to PBA Jurien[®], slightly quicker than Coyote[®]

Predicted grain yield of Rosemont[®] versus 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

More information



AGT's enduring commitment to supporting Australian rural communities

Australian Grain Technologies (AGT) has demonstrated a steadfast and increasing commitment to supporting rural communities across Australia. For over two decades, the company has contributed to the prosperity of the nation's farmers by breeding innovative and competitive field crop varieties that offer increased productivity, superior genetics, and a strong return on the farmer's investment.

The commitment deepened in 2022, when, to commemorate its 20th anniversary, AGT established a dedicated community donations program. This initiative was launched to further contribute to the farming communities that have supported the company throughout its journey. The donations are offered to growers of AGT varieties across Australia who require support for local projects that benefit their community.

The community donations program is an essential acknowledgement of AGT's prolonged success, which is wholly dependent on the continuing support of Australian grain growers and the communities that sustain them. AGT reached out to farming areas that had been strong supporters of the company, inviting ideas on how assistance could best be provided.

Now in its fourth year, these donations have been granted to communities

across various grain-growing regions of Australia, showcasing the diversity and necessity of the requests received. For example, two years ago (in 2023), AGT supported a primary school musical production, the restoration of tennis courts, sponsored junior rugby trips, contributed to town hall renovations, helped fix changerooms, built a playground, and paid for a projector at a local sports club.

Last year, in 2024, AGT was proud to contribute to initiatives including funding the resurfacing of a country tennis court, school signage, playgrounds and STEM desks for primary schools, shade covering for a high school, and helping to pay for improvements to a municipal swimming pool that enabled better disability access.

Through the process of assessing requests and awarding these donations, it has become increasingly evident that



AGT Community Donations are helping the Corrigin St John Ambulance Sub Centre upgrade.

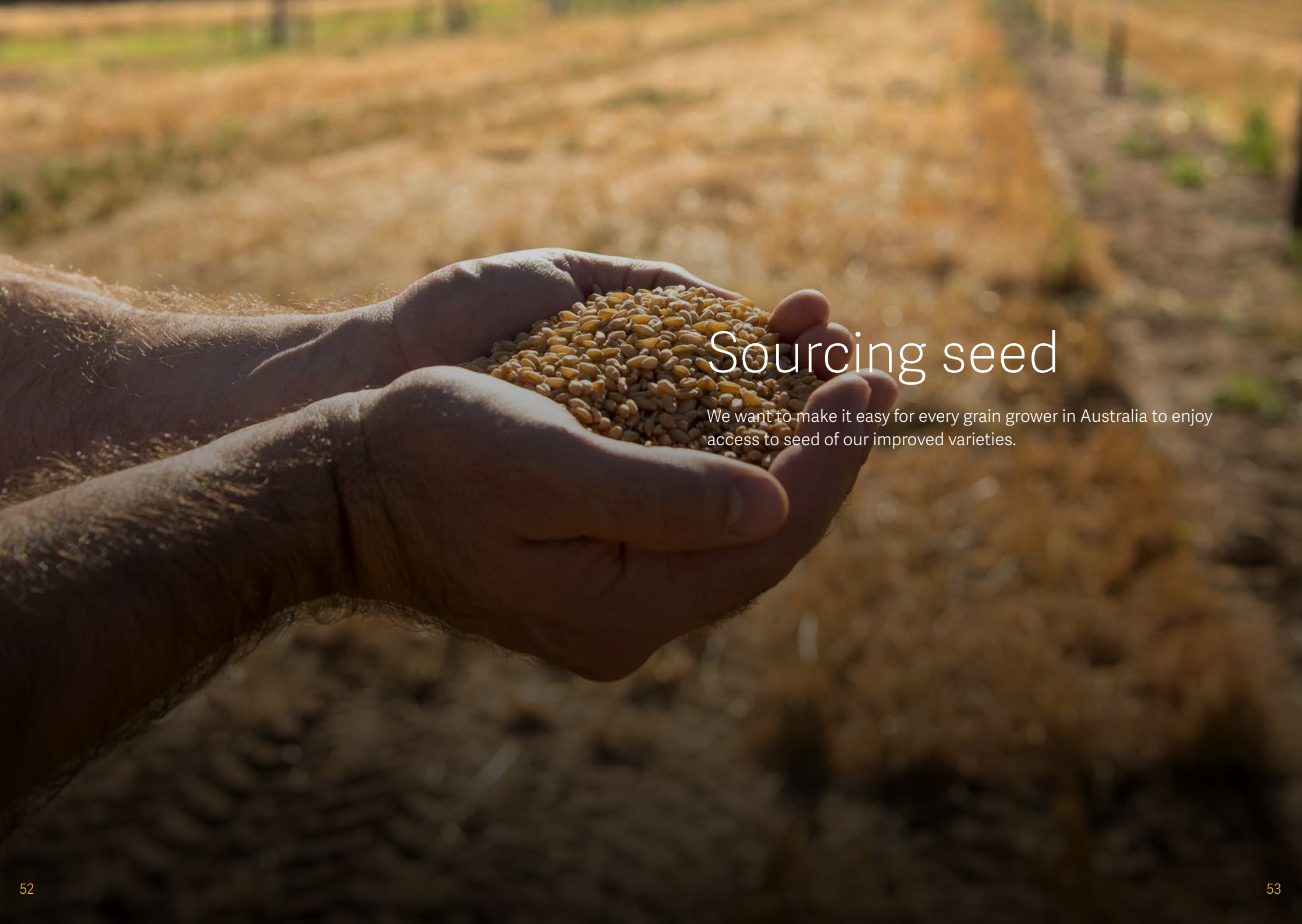
there is an ongoing need for businesses like AGT—which earn their livelihood from the work done in the field by Australian farmers—to contribute further to rural communities.

For this reason, at the beginning of 2025, AGT once again asked grain growers from around Australia to provide ideas on how the company could assist their local communities. The number of requests for funding received by AGT vastly outnumbered those from the previous three years, further demonstrating the vital nature of the program.

The 2025 recipients will certainly be putting the funding to good use in helping their local communities. This year's projects include funding a harvester simulator, school playground and tennis court resurfacing, new equipment for a local football oval,

helping to fund a synthetic Hockey field, and the upgrade of a local ambulance station.

AGT takes pride in releasing new and competitive varieties of wheat, barley, canola, durum, and lupins to provide Australian farmers with practical solutions that deliver value, as well as doing its part to ensure the global population is well-nourished. The company views its ability to further contribute to farming regions across Australia through community donations as a natural extension of its responsibility to give back to the growers who have shown trust in AGT over the past decades through the adoption of its varieties and the payment of their end-point royalties.



Sourcing seed

We want to make it easy for every grain grower in Australia to enjoy access to seed of our improved varieties.

AGT appoint new Variety Support Officer for Western Australia

Australian Grain Technologies (AGT) is pleased to announce the appointment of Sienna Bergersen as Variety Support Officer for Western Australia, based at the company's Field Crop Breeding Centre at Northam.

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Sienna has been working for AGT at Northam since 2023 in the role of Field Technical Officer, having previously held a similar position at the company's Wagga Wagga breeding centre in 2020/21.

The new role will see Sienna work closely with existing Variety Support Manager Floyd Sullivan, covering variety promotion and marketing, seed production, and technical support of AGT's wheat, barley, lupin and canola varieties across all Agzones of WA.

No stranger to the agricultural landscape of WA, Sienna was born in Albany in the Great Southern and attended Muresk Institute as well as working in the agri-business sector.

Sienna said she is excited to be moving into this new role with AGT.

"I am passionate about the future of agriculture and committed to supporting



Sienna Bergersen

growers by helping develop and deliver new field crop varieties that are more productive, higher in quality, and more cost-effective to grow. I am looking forward to this new challenge and putting the learnings from being a technical officer into marketing our new and current varieties."

AGT's Head of Variety Support, Dan Vater, acknowledged the appointment as an important one for the crucial WA region.

"WA is such a key market for us, and we're really focused on making sure we support growers and agronomists across the state properly."

"Sienna's a great addition to the team, She's warm, bubbly, and genuinely keen to learn. Having grown up in WA, she understands WA farming systems and has a real interest in helping growers get the best out of their business. With Floyd Sullivan mentoring her as she finds her feet and gets to know more people in the industry, she's set to make a strong impact".

We know that you want high quality seed.

You're excited about trying out one of our new varieties. You've paid good money for seed, and expect a quality product. Here's what we are doing to help ensure the quality of seed that you buy:



Variety confirmation on the seed from each production crop by DNA testing



A proactive approach to removing contaminants and off-types via roguing of production crops



Putting each variety through a thorough, two season pure seed selection process to create a homogenous seed source



Adherence to stringent disease management protocols on breeder and foundation seed productions



Trait confirmation testing on seed of herbicide tolerant varieties



Requiring our seed processors to apply effective smuticides on barley seed to combat loose smut



Rigorous DNA based adventitious presence testing in canola to protect GM-free status

Seed of our varieties produced under license by an AGT Affiliate has been produced according to Seed Services SureSeed standards (or equivalent). An in-crop paddock inspection report and purity & germination certificate pertaining to the seed that you buy is available upon request.

AGT Affiliates are responsible for production, grading, sales and distribution of all our new and existing varieties.

AGT Affiliates offer both wholesale and retail sales capacity and thereby growers can access seed of our varieties from AGT Affiliates directly, or through most agricultural merchandising retail stores.

AGT does not sell seed direct to growers, nor does AGT earn any income from the sale of seed.

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admin@melchiorreseeds.com.au
www.melchiorreseeds.com.au

AGT Seed Sharing™

Seed Sharing™ is a low cost way of introducing our improved genetics into your program.

Seed Sharing™ is the only legal way for farmers to trade seed of AGT varieties to each other. We want farmers to be able to adopt our elite varieties quickly so to keep this legal, all seed transfer between farmers must be lodged with AGT.

By using the AGT Grower Portal™, the documentation associated with Seed Sharing™ of eligible AGT varieties between farmers can now be handled through a simple online process.

You can access the AGT Grower Portal™ here:

www.portal.agtbreeding.com.au

To thank you for your support of this new initiative, we will send a \$100 gift card to both the seller and recipient when the AGT Grower Portal™ is used to complete a Seed Sharing™ transaction*.

Or if you prefer, we will donate the \$100 to one of the charities listed below:

Royal Flying Doctor Service: Caring for Australians from the ground up.

Are You Bugged Mate?: Raising awareness of depression and suicide in rural communities.

Blaze Aid: Helping communities rebuild after natural disasters.

* Seed Sharing™ e-gift card & donation terms and conditions

- All Seed Sharing transactions will be verified by AGT before any payments are made
- AGT reserves the right to vary the terms and conditions at our discretion
- AGT reserves the right to refuse payment at our discretion
- To be eligible to receive a payment or have a donation made on your behalf:
 - The transaction must represent the first use of that specific AGT Variety by the purchasing Grower Entity (Buyer)
- The Variety Licence Agreement must be signed by both parties in the portal
- The seller must have evidence of previously utilising the variety either through a seed transaction or the payment of EPR's
- The transaction must be a legitimate sale of seed from one Grower to another, at arm's length – i.e. the Seed Sharing™ transaction cannot occur between related parties
- The seed must be used for planting and EPR's paid in future years

Seed of AGT Clearfield® varieties now able to be legally traded between growers

Sourcing the right quantities of the AGT varieties you want to grow is now even easier with the decision to allow Seed Sharing™ of AGT Clearfield® wheat and barley varieties.

AGT wheat varieties now able to be legally traded between growers include Grenade CL Plus[®], Kord CL Plus[®], Elmore CL Plus[®], Razor CL Plus[®], Hammer CL Plus[®], Sunblade CL Plus[®], and the highly popular new variety, Tomahawk CL Plus[®]. Future AGT wheat and barley varieties carrying Clearfield® tolerance will also be available for Seed Sharing™.

Dan Vater, AGT's Head of Variety Support, says the decision to allow licensed 'farmer-to-farmer' trading of AGT Clearfield® varieties is a step in the right direction.

"This news comes at a really good time, particularly in the drought affected parts of the country where imi residues are dictating what can be safely planted this season.

"We know that a lot of farmers are looking at getting their hands on seed



All Clearfield® varieties, including popular Tomahawk CL Plus[®], are now eligible for Seed Sharing™

of our Clearfield® wheat varieties to mitigate the impact of herbicide residues.

"Now, all of our wheat, durum, barley, canola and lupin varieties are able to be traded between growers legally. This is a great way for growers to get into a new variety in a cost effective way. And of course high quality, quality assured, processed seed of our newer varieties is still able to be sourced through the AGT Affiliate network and local retailers.

This change was made possible through the launch of AGT's Grower Portal™ last year, which legally must be used by all growers who are trading seed of AGT Clearfield® varieties or other AGT varieties to another grower.



Contact

Floyd Sullivan, Variety Support Manager, WA:

End Point Royalty Office:

0499 580 260

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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.