2024
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 7	Wheat	Calibre$^{\Phi}$	AH		✓	✓	-	Page 8
		Catapult$^{\Phi}$	AH	✓	✓		-	Page 10
		Denison$^{\Phi}$	APW	✓	✓		-	Page 12
		Hammer CL Plus$^{\Phi}$	AH (N)		✓	✓	Clearfield® (Intervix®)	Page 14
		Illabo$^{\Phi}$	AH	✓			-	Page 16
		Sting$^{\Phi}$	AH		✓	✓	-	Page 18
		Tomahawk CL Plus$^{\Phi}$ New	APW		✓	✓	Clearfield® (Intervix®)	Page 20
Page 25	Barley	Beast$^{\Phi}$	Feed*		✓	✓	-	Page 26
		Cyclops$^{\Phi}$	Feed*		✓	✓	-	Page 28
		Minotaur$^{\Phi}$	Feed*		✓		-	Page 30
		Titan AX$^{\Phi}$	Feed*		✓		CoAxium® (Aggressor®)	Page 32
Page 37	Canola	Bandit TT$^{\Phi}$	CAN		✓	✓	Triazine	Page 38
		Outlaw$^{\Phi}$	CAN		✓	✓	-	Page 40
		Renegade TT$^{\Phi}$	CAN		✓	✓	Triazine	Page 42
Page 47	Lupin	Coyote$^{\Phi}$	Feed		✓	✓	Metribuzin	Page 48
		Gidgee$^{\Phi}$ New	Feed		✓	✓	Metribuzin	Page 50
		Rosemont$^{\Phi}$ New	Feed		✓	✓	Metribuzin	Page 52

*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
- 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 20 year history. From our beginnings as a small wheat breeding company, EPRs have enabled us to better serve you by:

- 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
- 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

PBR, EPR and Seed Availability

Variety	EPR rate per tonne (incl. GST)
Calibre® wheat	$3.50
Catapult® wheat	$3.25
Denison® wheat	$3.40
Hammer CL Plus® wheat	$4.25
Illabo® wheat	$3.50
Sting® wheat	$3.50
Tomahawk CL Plus® wheat	$4.15
Beast® barley	$4.00
Cyclops® barley	$4.00
Minotaur® barley	$4.00
Titan AX® barley	$4.55
Bandit TT® canola	$10.00
Outlaw® canola	$10.00
Renegade TT® canola	$10.00
Coyote® lupin	$3.00
Gidgee® lupin	$4.50
Rosemont® lupin	$4.50

Varieties denoted by the (Ð 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.

Commercial quantities of AGT varieties may be available through AGT Affiliates, or your local retailer.

AGT varieties can be traded between growers upon the completion of a License Agreement as part of AGT's Seed Sharing™ initiative.

Wheat

Main season comparisons

	Calibre®	Sting®	Scepter®	Vixen®
Quality Classification	AH	AH	AH	AH (N)
Maturity	Quick-mid	Quick-mid	Mid	Quick
Stem Rust	MR	MRMS	MRMS	MRMS
Stripe Rust	RMR	MR	RMR	MRMS
Leaf Rust	S	SVS	MSS	SVS
Yellow Spot	MRMS	MRMS	MRMS	MRMS
Powdery Mildew	MSS	S	S	SVS
Nodorum Blotch (Leaf)	MSS	MS	MRMS	MSS
Black Point	MS	S	MS	MSS

Early sowing comparisons

	Catapult®	Denison®	Illabo®	Cutlass®	Magenta®	Rockstar®
Quality Classification	AH	APW	AH	APW (N)	APW	AH (N)
Maturity	Mid-slow spring	Slow-very slow spring	Mid-quick winter	Mid-slow spring	Mid-slow spring	Mid-slow spring
Stem Rust	MR	MS	MRMS	R	MR	MRMS
Stripe Rust	RMR	MR	RMR	RMR	MSS	RMR
Leaf Rust	S	S	S	RMR	RMR	S
Yellow Spot	MRMS	MRMS	MS	MSS	MRMS	MRMS
Powdery Mildew	S	S	RMR	S	MRMS	MS
Nodorum Blotch (Leaf)	MRMS	MR	MR	MRMS	MRMS	MRMS
Black Point	S	MS	NA	NA	NA	MSS

Clearfield® comparisons

	Hammer CL Plus®	Tomahawk CL Plus®	Chief CL Plus®	LRBP Anvil CL Plus®	Valiant CL Plus®
Quality Classification	AH (N)	APW	APW (N)	AH	AH
Maturity	Quick-mid	Mid	Mid	Quick	Slow
Stem Rust	MR	MR*	MR	MR	MR
Stripe Rust	RMR	RMR*	S	RMR	RMR
Leaf Rust	S	S*	MR	SVS	S
Yellow Spot	MRMS	MRMS*	MRMS	MSS	MRMS
Powdery Mildew	SVS	S*	S	S	S
Nodorum Blotch (Leaf)	MRMS	NA	MS	MSS	MR
Black Point	MRMS	MS*	MS	S*	MS*

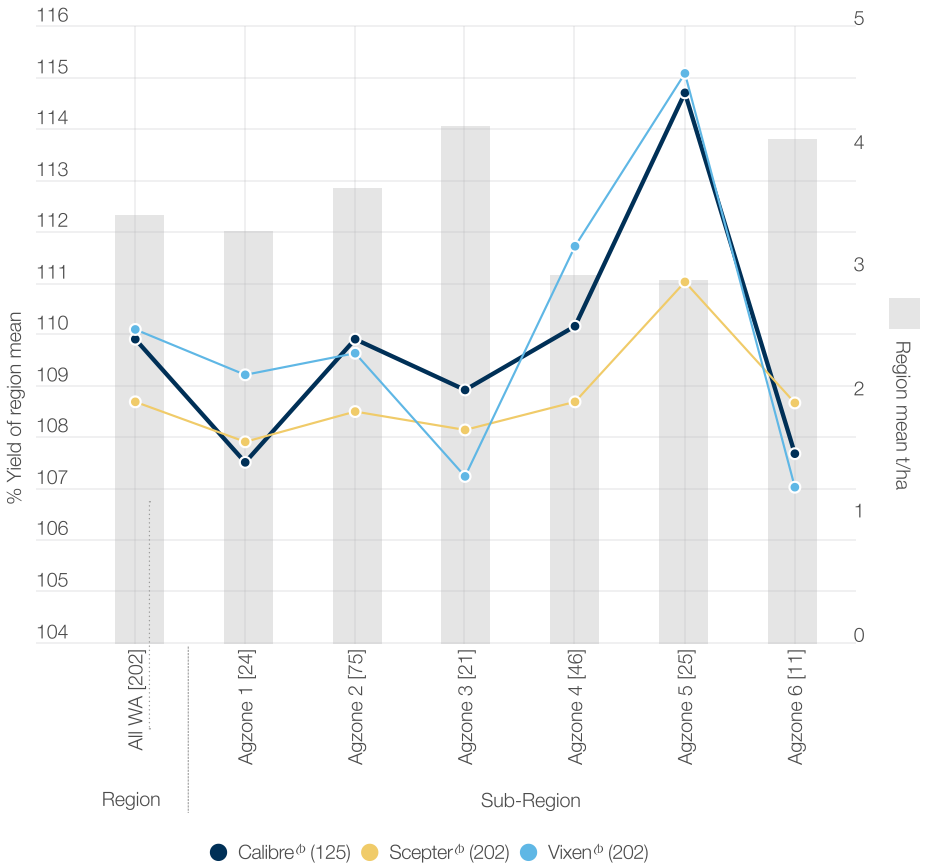
R	Resistant	VS	Very Susceptible
MR	Moderately Resistant	NA	Not Available
MS	Moderately Susceptible	*	Provisional rating
S	Susceptible		

Source: NVT consensus ratings 2022

Calibre$^{\Phi}$

- Elite grain yield
- Derived from popular variety Scepter$^{\Phi}$
- Very widely adapted, suited to all growing regions of WA
- Longer coleoptile than most commonly grown varieties
- Good sprouting tolerance, similar to Scepter$^{\Phi}$, better than Vixen$^{\Phi}$
- Improved powdery mildew resistance over Scepter$^{\Phi}$ and Vixen$^{\Phi}$
- Good yellow spot resistance for wheat on wheat rotations
- Quick-mid maturity, similar to Mace$^{\Phi}$
- AH quality classification

Predicted grain yield of Calibre$^{\Phi}$ versus comparators



Source: NVT main season series long term MET analysis 2018-2022

[ ] Total number of trials per region

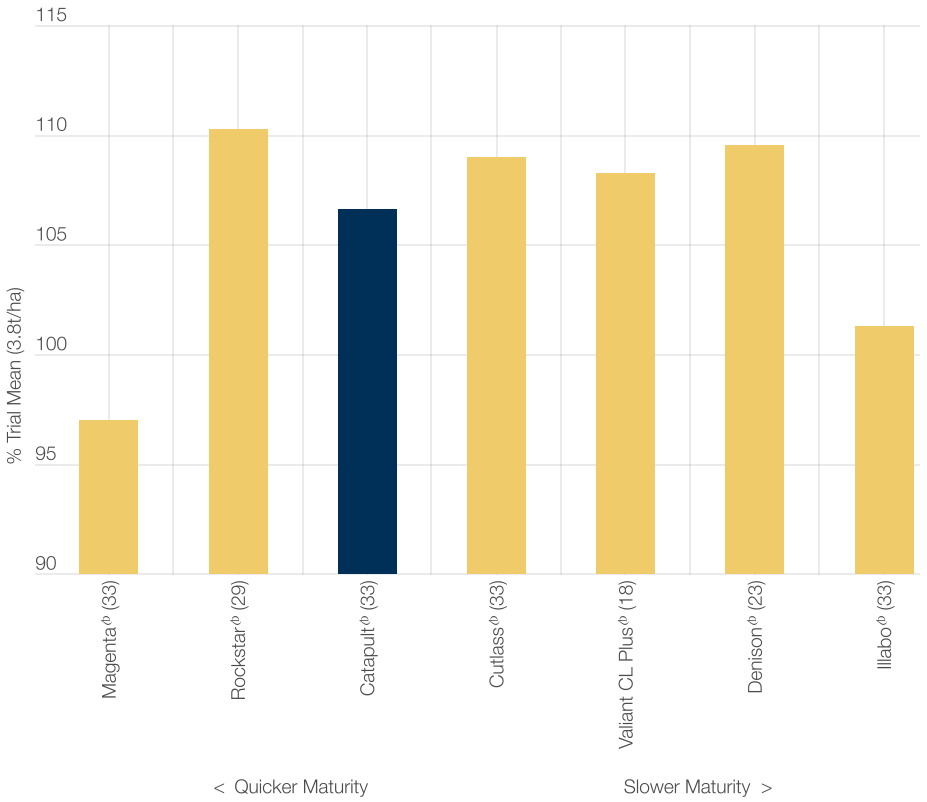
( ) Number of trials that each variety was present in across the Western Australian dataset [202]

More information

Catapult$^{\Phi}$

- Mid-slow maturity, with a very flexible sowing window
- Safer option for sowing dry when germination date is unknown
- Wide adaptation, will fit the front end of most growers' cropping programs
- Good pre-harvest sprouting tolerance, better than Rockstar
- Excellent choice for wheat-on-wheat situations
- Very good physical grain characteristics with an AH quality classification

Predicted grain yield of Catapult$^{\Phi}$ versus comparators



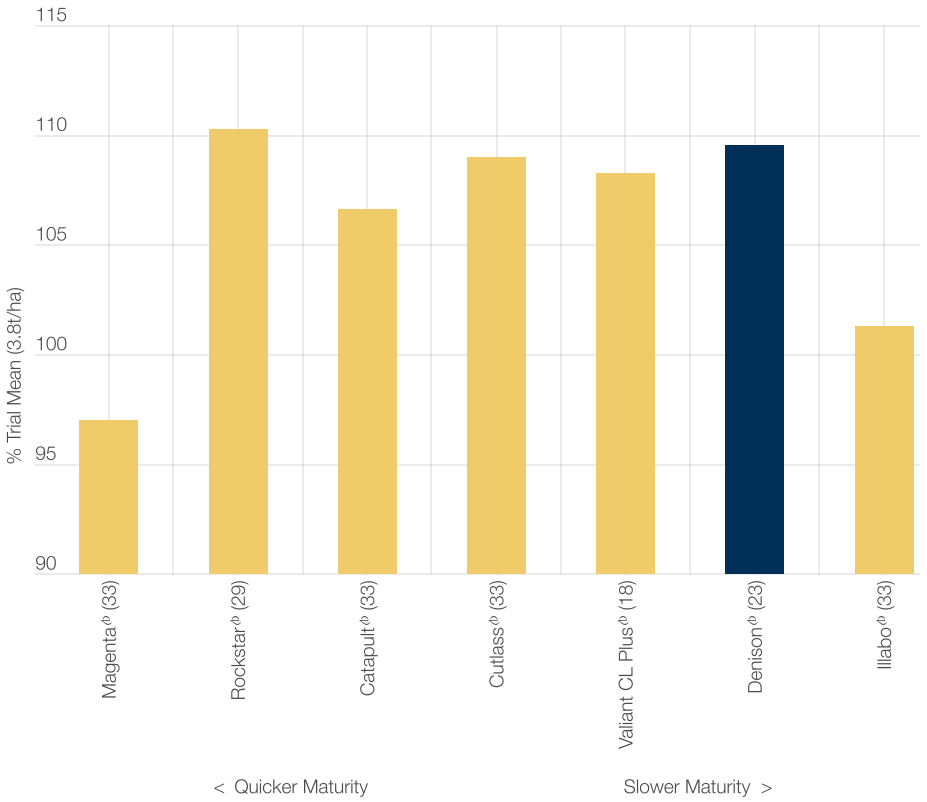
Source: NVT long term MET analysis, early sown trial series 2018-2022 [33 trials across WA]
( ) Number of trials that each variety was present in across the dataset

More information

Denison$^{\phi}$

- Unique ‘slow-very slow’ spring maturity
- Best suited to mid to late April sowings in most regions
- Highly competitive yield when sown early
- Wide adaptation, suits most regions of WA
- Suitable for wheat-on-wheat situations
- APW quality classification

Predicted grain yield of Denison$^{\phi}$ versus comparators



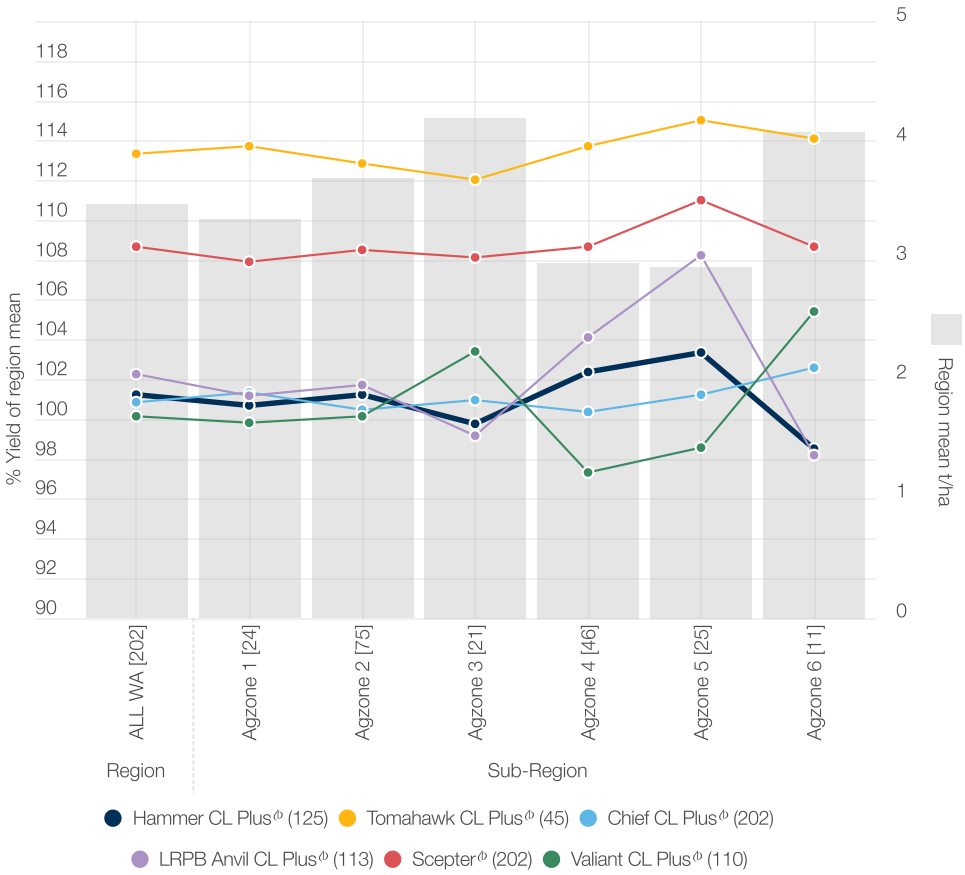
Source: NVT long term MET analysis, early sown trial series 2018-2022 [33 trials across WA]
( ) Number of trials that each variety was present in across the dataset

More information

Hammer CL Plus$^{\Phi}$

- Closely related to Mace$^{\Phi}$, with similar adaptation and yield
- AH (N) quality classification with low screenings and high test weight
- Suitable for wheat on wheat situations
- Quick-mid maturity, similar to Mace$^{\Phi}$
- Tolerant to Clearfield® Intervix herbicide

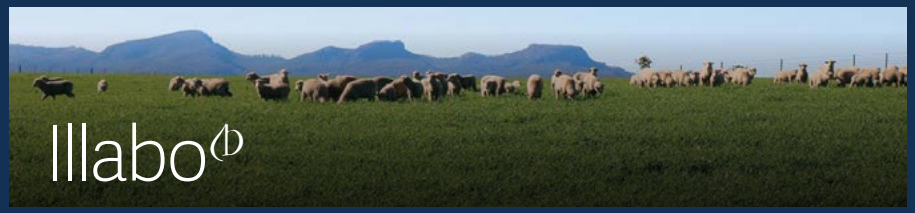
Predicted grain yield of Hammer CL Plus$^{\Phi}$ versus comparators



Source: NVT long term MET analysis, main season trial series 2018-2022
[ ] Total number of trials per region
( ) Number of trials that each variety was present in across the WA dataset [202]

Clearfield® Plus
Production System for Wheat

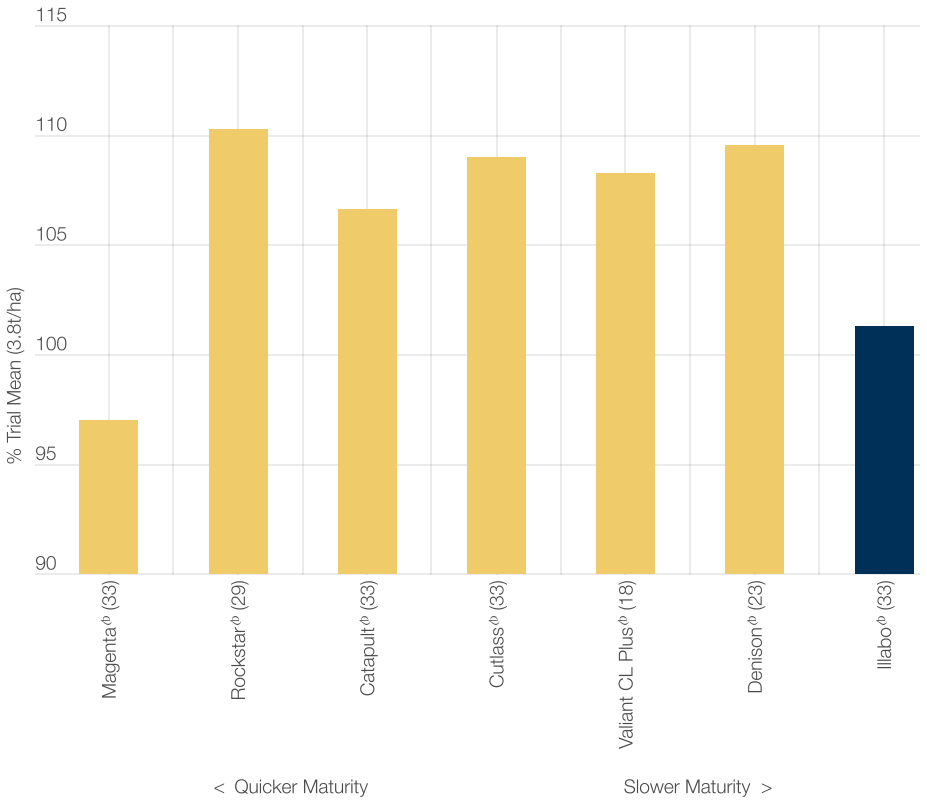
More information



Illabo[Φ]

- Dual purpose winter wheat for grazing and grain production
- A higher yielding alternative to EGA Wedgetail[Φ] and LRPB Kittyhawk[Φ]
- AH quality classification in northern NSW
- Mid-quick winter maturity, 2-3 days quicker than EGA Wedgetail[Φ]
- Improved resistance to stripe rust and black point over EGA Wedgetail[Φ]

Predicted grain yield of Illabo[Φ] versus comparators



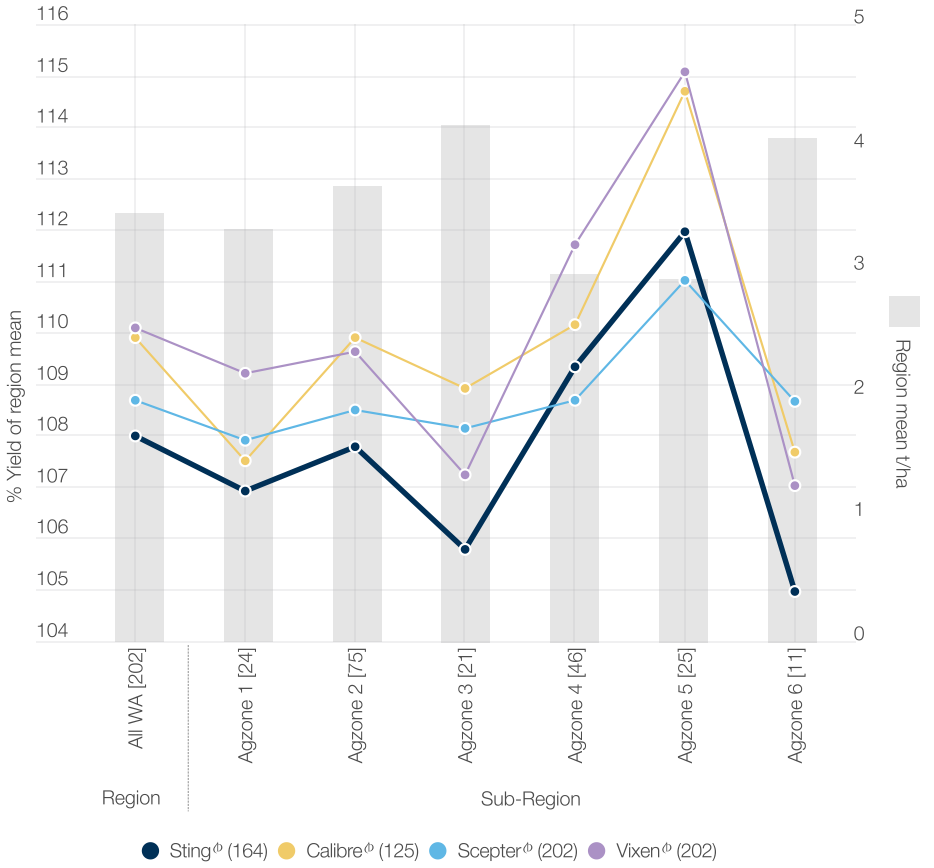
Source: NVT long term MET analysis, early sown trial series 2018-2022 [33 trials across WA]
( ) Number of trials that each variety was present in across the dataset

More information

Sting$^{\Phi}$

- Quick-mid maturity, similar to Corack$^{\Phi}$
- Suited to low-medium rainfall areas of WA, particularly the northern agricultural region
- AH quality classification
- High yielding alternative to Corack$^{\Phi}$, Vixen$^{\Phi}$ and LRPB Havoc$^{\Phi}$
- Quicker maturing complement to Scepter$^{\Phi}$

Predicted grain yield of Sting$^{\Phi}$ versus comparators



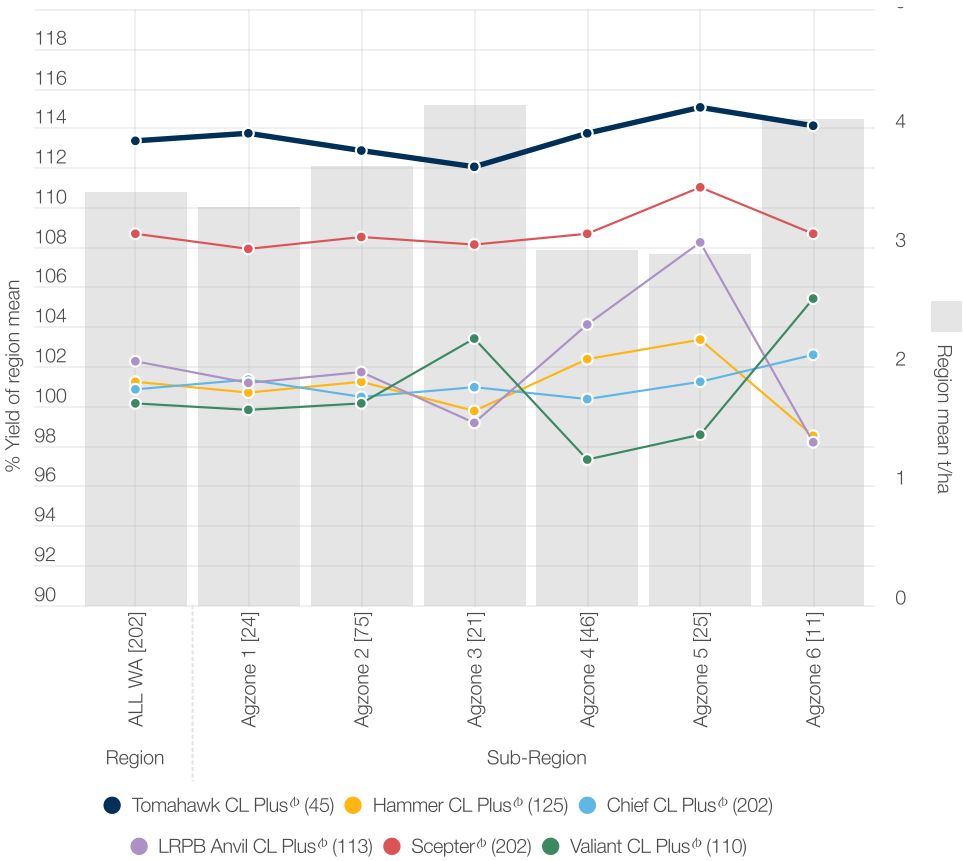
Source: NVT long term MET analysis, main season trial series 2018-2022
[ ] Total number of trials per region
( ) Number of trials that each variety was present in across the SA/VIC dataset [179]

More information

Tomahawk CL Plus Φ

- 'Scepter Φ' type Clearfield® variety with increased yields over Scepter Φ
- The highest yielding Clearfield® wheat variety in WA, significantly higher than all commercially grown Clearfield® varieties
- Tolerant to Clearfield® Intervix® herbicide
- Similar disease resistance profile as Scepter Φ, with good yellow spot resistance
- Similar grain size and test weight as Scepter Φ
- Mid-season maturity, similar to Scepter Φ
- Good sprouting tolerance, similar to Scepter Φ
- APW quality classification

Predicted grain yield of Tomahawk CL Plus Φ versus comparators



Source: NVT long term MET analysis, main season trial series 2018-2022
[ ] Total number of trials per region
( ) Number of trials that each variety was present in across the WA dataset [202]

Clearfield® Plus
Production System for Wheat

More information

Tomahawk CL Plus® closes the yield gap

A new wheat variety has been launched that is set to replace currently grown Clearfield® wheat varieties.

Having been in development by Australian Grain Technologies (AGT) over the past seven years, the new variety, named Tomahawk CL Plus®, is set to become a landmark variety in the Clearfield® wheat space.

The variety was officially launched on Wednesday September 13th at significant field days across SA, Victoria and WA, including the Minnipa Agricultural Centre Field Day in SA and Birchip Cropping Group Main Field Day in Victoria; highlighting the wide range of environments that Tomahawk CL Plus® suits.

Clearfield® varieties across many crop types are commonplace on farm these days, with tolerance to imidazolinone herbicides allowing for in-crop control of many weed species. Historically though, wheat varieties carrying this herbicide tolerance trait have come with a yield penalty compared with the leading 'conventional' wheat varieties such as Scepter®.

This is all about to change with the release of Tomahawk CL Plus®.

"We have been striving to reduce the yield gap between Clearfield® and conventional wheats for a long time now and have finally made a breakthrough with Tomahawk CL PlusP, which has yielded towards the top of the pack, a little above Scepter", explains AGT wheat breeder Dr James Edwards.

AGT Wheat Breeder Dr James Edwards introducing Tomahawk CL Plus® to the crowd at the Minnipa Agricultural Centre Field Day on September 13th, 2023.

SA Manager of Variety Support Brad Koster, and Wheat Breeder Dr James Edwards.

"Tomahawk CL Plus® is derived from Scepter and carries a lot of similarities. Other than holding an APW quality classification rather than AH, it's extremely similar. If you've grown Scepter® before, you will be very comfortable with Tomahawk CL Plus®".

"Think of Scepter's® high and stable grain size and test weight, good sprouting tolerance, wide adaptation, mid season maturity and disease resistance package. These are traits that Tomahawk CL Plus® holds, plus Clearfield® tolerance and a nice yield bump".

AGT's Manager of Variety Support for SA, Brad Koster, expects a wide application of the variety.

"There's no doubt growers will be interested in Tomahawk CL Plus® as a direct replacement for varieties like Razor CL Plus®, Chief CL Plus®, Sheriff CL Plus®, Grenade CL Plus® and Kord CL Plus®, but I can also see it being treated as a 'conventional' wheat too, due to its high grain yield and other agronomic advantages".

"If you grow a paddock of Tomahawk CL Plus® and don't need to use the Clearfield® herbicide in-crop, then you won't be wishing you grew a non-Clearfield® variety instead. There is no yield penalty by choosing to grow Tomahawk CL Plus® instead of a variety like Scepter®".

In WA, AGT's Variety Support Manager Floyd Sullivan says this is the breakthrough in Clearfield® wheats that growers have been looking for.

"We've been a bit limited with choice in the Clearfield® wheat market in WA, with Chief CL Plus® becoming the dominant Clearfield® variety, but with a large yield penalty relative to Scepter®".

"Tomahawk CL Plus® has been an absolute standout in AGT and NVT testing so far, and I expect it to become the clear choice for any grower looking to control weeds in-crop or as a plant back option to mitigate the risk of imidazolinone residues".

Barley

Agronomic comparisons

	Beast®	Cyclops®	Minotaur®	Titan AX®
Malt Classification	Potential Malt	Potential Malt	Potential Malt	Potential Malt
Herbicide Tolerance	-	-	-	CoAXium® (Aggressor®)
Plant Height	Tall	Moderately Short	Moderately Short	Tall
Early Vigour	Good	Moderate	Moderate	Good
Early Plant Growth Habit	Semi-erect	Erect	Prostrate	Semi-erect
Lodging Tolerance	Medium to Weak	Medium to Strong	Strong	Medium to Weak
Brackling Tolerance	Medium	Medium	Medium to Strong	Medium
Sprouting Tolerance	Good	Good	Good	Good
Coleoptile Length	Medium Long	Short	Long	Medium Long
Rachilla Hair	Long	Short	Long	Long
Head Loss Tolerance	Medium to Weak	Medium	Medium	Medium to Weak

Disease rating comparisons

	Beast®	Cyclops®	Minotaur®	Titan AX®	Compass®	Maximus CL®	RGT Planet®	Spartacus CL®
Spot Form of Net Blotch	MSS	S	S	MS	MSS	MSS	S	SVS
Net Form of Net Blotch	MRMS-S	MR-S	MRMS-MS	MR-MSS	MR-S	MR-S	MRMS-SVS	MRMS-S
Leaf Rust	MSS	S	S	S	S	MSS	MRMS-MS	MSS
Powdery Mildew	MR	MR	S	RMR	R-MRMS	MR	R	MSS
Barley Yellow Dwarf Virus	MS	S	MSS	MS	MS	MRMS	MRMS-MS	MSS
Scald	S	MRMS	VS	S	MS	R	RMR	RMR

R Resistant
MR Moderately Resistant
MS Moderately Susceptible
S Susceptible
VS Very Susceptible

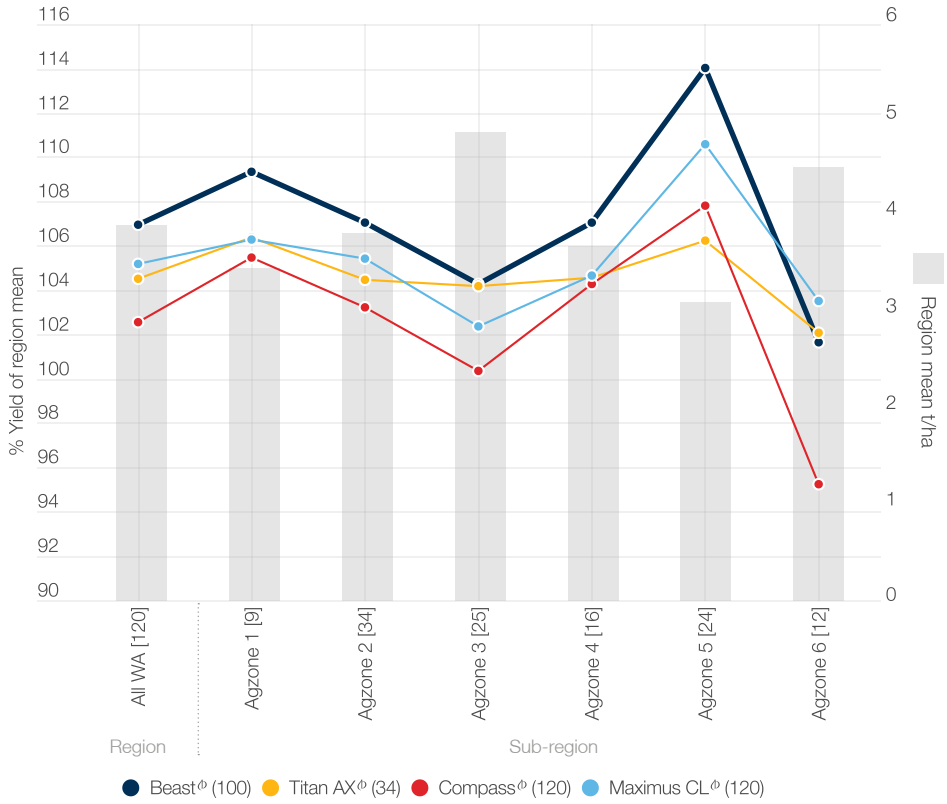
A range of reactions is provided (separated with -) where different strains of the pathogen exist and where the variety may respond differently to them

Source: NVT consensus ratings 2022

Beast$^{\Phi}$

- Very high yielding in low-medium rainfall environments
- Quick maturity, quicker than Compass$^{\Phi}$
- Excellent performance in stressed, tight finishing environments and seasons
- Compass$^{\Phi}$ plant type, with similar early vigour
- Competitive physical grain quality package, with test weight comparable to most commonly grown varieties and excellent grain size resulting in high retentions
- Has entered the Grains Australia malt accreditation program but is currently deliverable as Barley/Feed

Predicted grain yield of Beast$^{\Phi}$ versus comparators



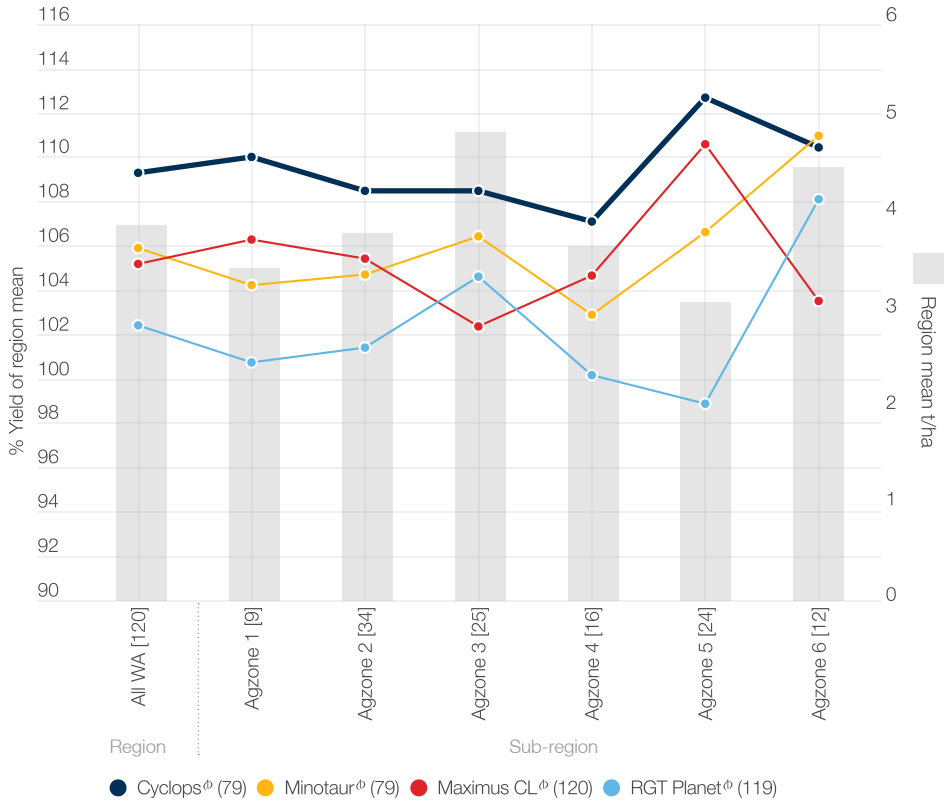
Source: NVT long term MET analysis yield prediction 2018-2022
[ ] Total number of trials per region
( ) Number of trials that each variety was present in across the WA dataset [120]

More information

Cyclops$^{\Phi}$

- Exceptional yield potential
- Quick-mid maturity, slightly slower than Spartacus CL$^{\Phi}$
- Wide adaptation to a range of environments and seasonal conditions
- Erect growing Hindmarsh$^{\Phi}$ plant type
- Less susceptible to lodging than taller varieties such as Compass$^{\Phi}$
- Competitive physical grain quality package
- Improved spot-form net blotch resistance over Rosalind$^{\Phi}$ and Spartacus CL$^{\Phi}$
- Has entered the Grains Australia malt accreditation program but is currently deliverable as Barley/Feed

Predicted grain yield of Cyclops$^{\Phi}$ versus comparators



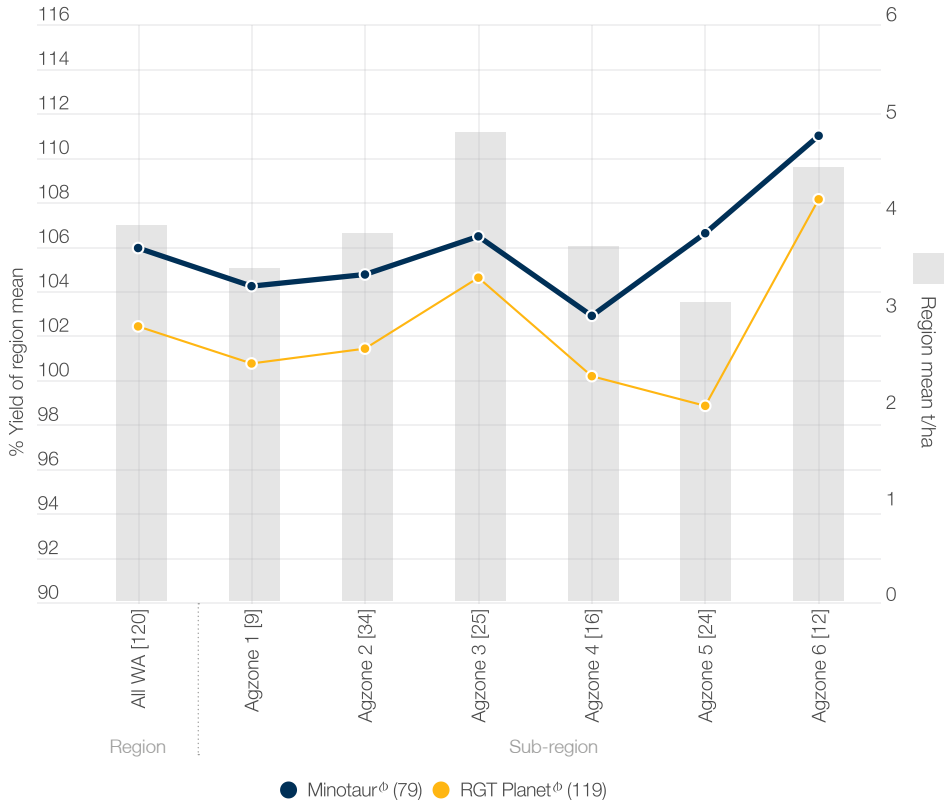
Source: NVT long term MET analysis yield prediction 2018-2022
[ ] Total number of trials per region
( ) Number of trials that each variety was present in across the WA dataset [120]

More information

Minotaur$^{\Phi}$

- A lower risk alternative to RGT Planet$^{\Phi}$ with similar top-end yield potential
- Best suited to medium-high rainfall environments
- Mid-slow maturity, similar to RGT Planet$^{\Phi}$
- Broader adaptation than RGT Planet$^{\Phi}$, delivering more stable yields across a wider range of environmental conditions
- Improved test weight compared with RGT Planet$^{\Phi}$
- Has entered the Grains Australia malt accreditation program but is currently deliverable as Barley/Feed

Predicted grain yield of Minotaur$^{\Phi}$ versus comparators



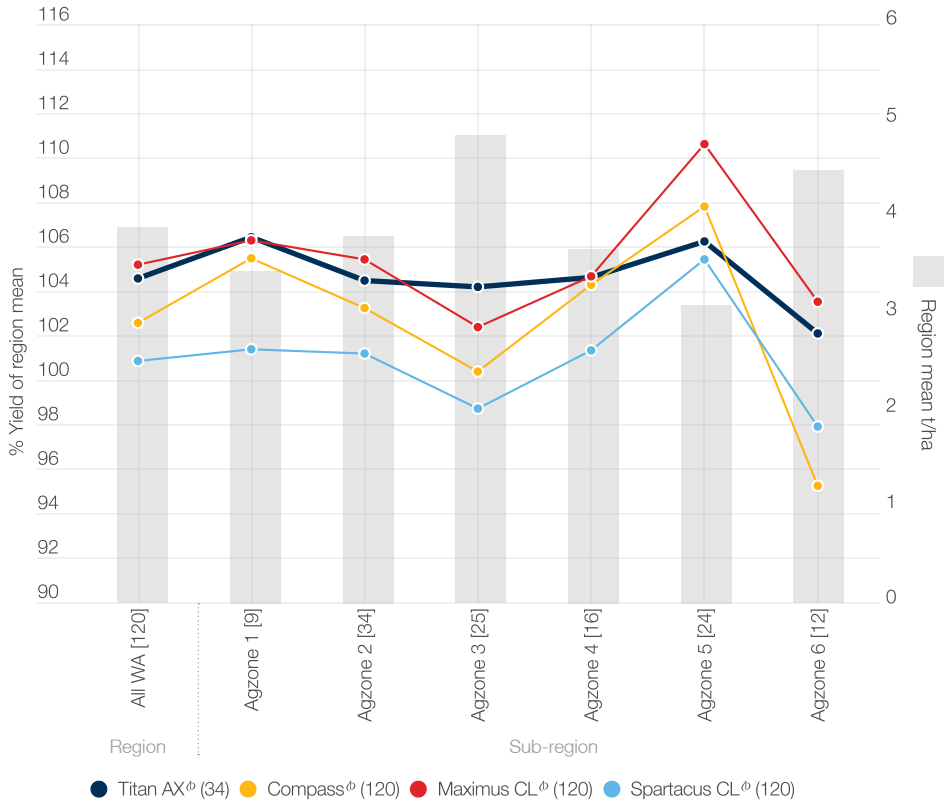
Source: NVT long term MET analysis yield prediction 2018-2022
[ ] Total number of trials per region
( ) Number of trials that each variety was present in across the WA dataset [120]

More information

Titan AX$^{\Phi}$

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

Predicted grain yield of Titan AX$^{\Phi}$ versus comparators



Source: NVT long term MET analysis yield prediction 2018-2022
[ ] Total number of trials per region
( ) Number of trials that each variety was present in across the WA dataset [120]

More information

AGT renews commitment to supporting rural communities.

Aldersyde Agricultural Hall in WA received a Community Donation to help upgrade facilities

For over 20 years, Australian Grain Technologies (AGT) has been contributing to the prosperity of this country's farmers by breeding new and competitive field crop varieties that are more productive, better quality and cost less to grow.

In 2022, to celebrate our 20 year anniversary, we decided to invest further into those farming communities that have supported us over this time.

One such initiative was giving away seed of AGT's first ever canola varieties. Three open-pollinated varieties (two of them triazine tolerant and the other conventional) were launched in August of 2022 and free seed was offered to AGT growers.

Another program embarked upon by AGT in its anniversary year was the establishment of a series of community donations. These donations were offered to growers of AGT varieties across Australia who needed support for projects that would benefit the community in which they lived. The community donations were an acknowledgement that AGT's prolonged success has depended on the 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 and asked for ideas on how to help.

The AGT Community Donation of $10,000 follows years of fundraising activities by Toolibin Tennis Club

Several restoration and renovation projects from Yuna in WA to North Star in NSW were funded by AGT, with grants contributing to building new playgrounds, fixing nurses quarters, creating child-safe playrooms and purchasing a new lawnmower for a local sports club.

What became clear through the process of assessing the numerous requests and awarding these donations was that there is an ongoing need in rural communities for more to be done by businesses like AGT that earn their livelihood from the work done in the field by Australian grain growers.

For this reason, in 2023, AGT once again asked grain growers from around Australia to come up with ideas on how we could help their local communities.

The diversity of requests for funding that AGT received was symbolic of the differing regions, towns and families that comprise the rich tapestry of Australia's grain growing industry. The 2023 Community Donation recipients are evidence of this.

From funding the restoration of what is claimed as Australia's oldest clay tennis court in WA, to enabling a group of young rugby players from the central plains of NSW to travel and compete in competitions they would otherwise be unable to afford. Town hall restoration, a new community hall projector, contributing to building a school playground, sports club changeroom upgrades and even helping to pay for a school musical were all projects that AGT was delighted and proud to contribute to in 2023.

AGT are proud to release new and competitive varieties of wheat, barley, canola, durum and lupins to provide Australian farmers with real solutions that deliver value, as well as doing our part to ensure the global population is well nourished. We see being able to further contribute to farming regions across Australia through community donations as a natural extension of our responsibility to be giving back to the growers who have shown trust in us over the past decades through the adoption of our varieties and the payment of their end-point royalties.

Canola

Triazine Tolerant variety comparisons

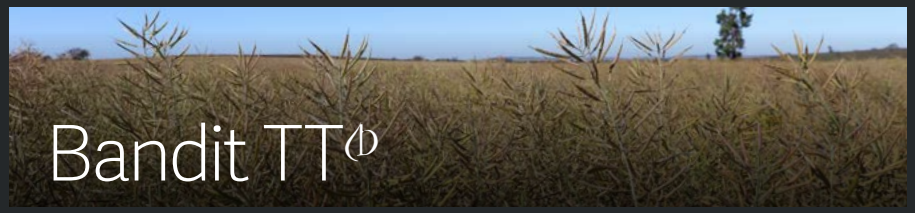
	Bandit TT$^{\Phi}$	Renegade TT$^{\Phi}$	ATR Bonito$^{\Phi}$	ATR Stingray$^{\Phi}$	ATR Wahoo$^{\Phi}$	HyTTec® Trident	HyTTec® Trophy
Type	Triazine Tolerant, Open Pollinated	Triazine Tolerant, Open Pollinated	Triazine Tolerant, Open Pollinated	Triazine Tolerant, Open Pollinated	Triazine Tolerant, Open Pollinated	Triazine Tolerant Hybrid	Triazine Tolerant Hybrid
Plant Height	Medium	Short-Medium	Short-Medium	Short	Medium	Tall	Medium-Tall
Blackleg Rating (Bare)	MRMS	MR	MS	MRMS	MRMS	R	R
Blackleg Rating (Treated)	R	R	R	R	R	R	R
Blackleg Resistance Group	A	A	A	C	A	AD	AD
Flowering Maturity	Early	Early-Mid	Early-Mid	Early	Mid	Early	Early-Mid

Conventional variety comparisons

	Outlaw$^{\Phi}$	AV Garnet$^{\Phi}$	Nuseed Diamond
Type	Conventional, Open Pollinated	Conventional, Open Pollinated	Conventional, Hybrid
Plant Height	Tall	Tall	Medium
Blackleg Rating (Bare)	RMR	MS	RMR
Blackleg Rating (Treated)	R	MR	R
Blackleg Resistance Group	A	A	ABF
Flowering Maturity	Early	Early-mid	Early

R Resistant
MR Moderately Resistant
MS Moderately Susceptible
S Susceptible
VS Very Susceptible

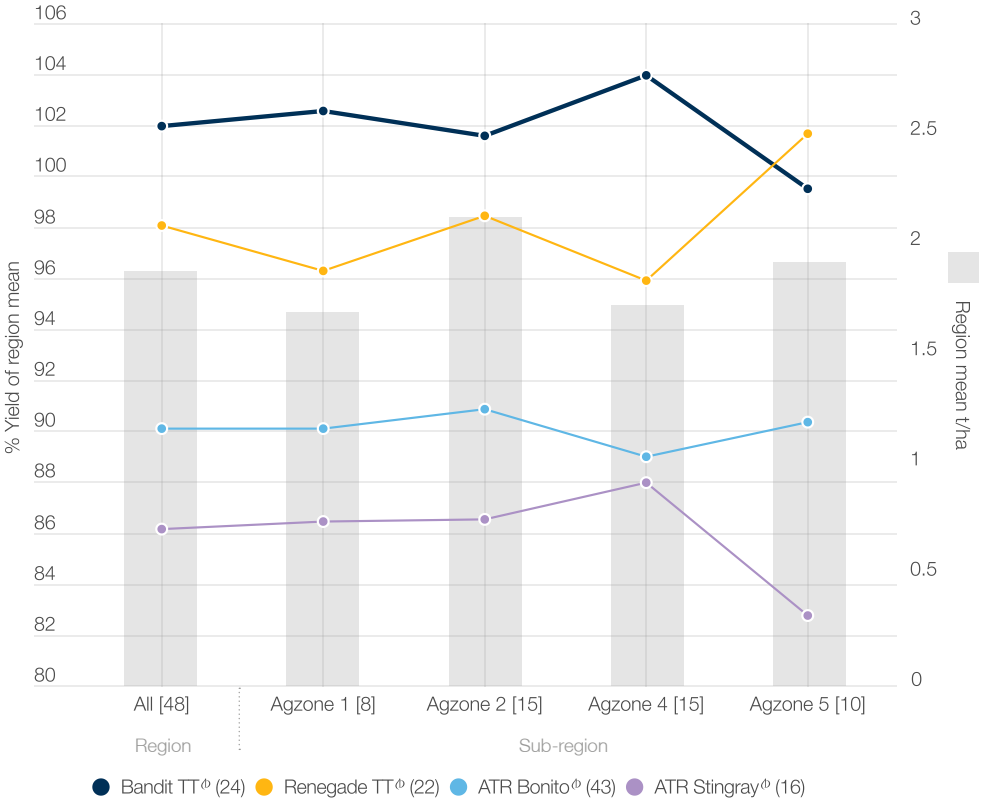
Source: NVT consensus ratings 2022 and AGT data



Bandit TT$^{\Phi}$

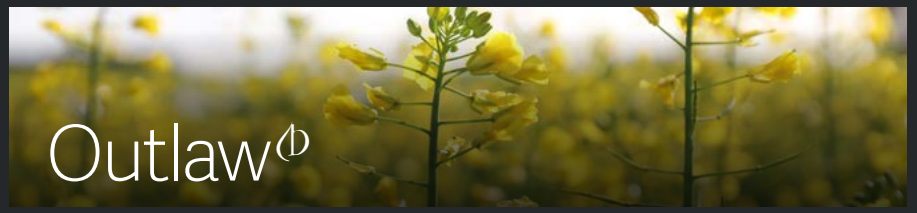
- Triazine Tolerant, Open Pollinated
- Very quick to flower, similar to ATR Stingray$^{\Phi}$ and HyTTec® Trident
- Market leading profitability under stressed conditions
- Best adapted to lower rainfall and lower yield potential environments
- Oil content similar to ATR Stingray$^{\Phi}$
- R blackleg rating (with fungicide), MRMS blackleg rating (without fungicide)
- Group A blackleg resistance

Predicted grain yield – NVT 'low/medium rainfall triazine' (quicker maturing) canola series



Source: NVT long term MET analysis, low/medium rainfall triazine canola trial series 2018-2022

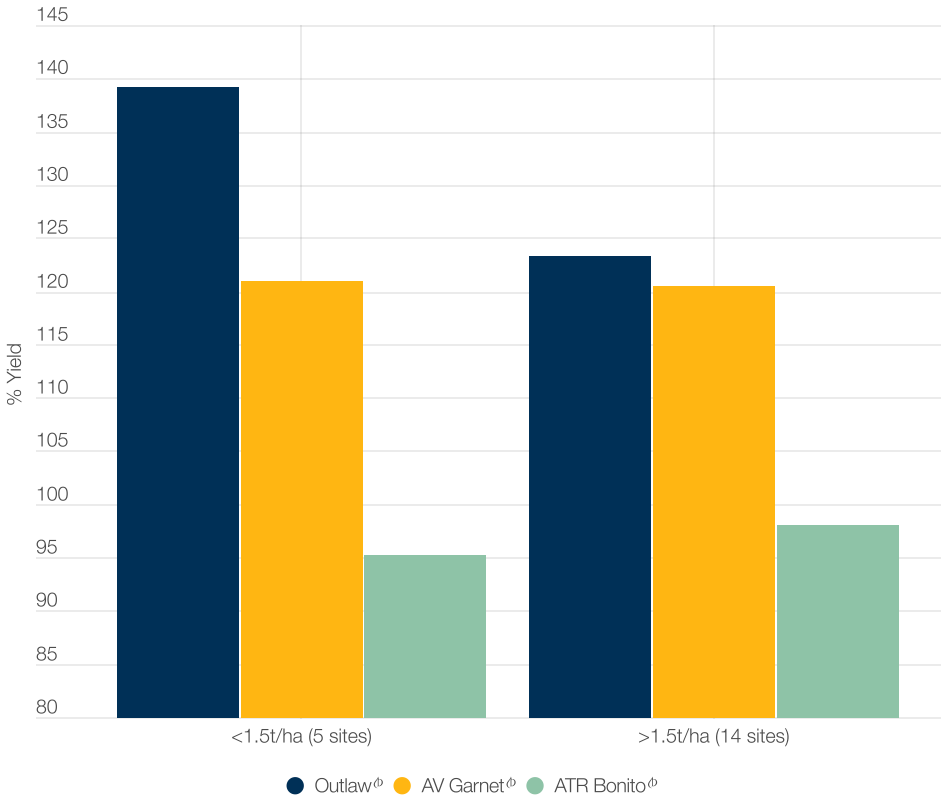
More information



Outlaw$^{\Phi}$

- Conventional, open pollinated (OP)
- Very quick to flower, similar to Nuseed Diamond and quicker than AV Garnet$^{\Phi}$
- Leading grain yield in conventional OP market
- Excellent oil content, nearly 3% higher than AV Garnet$^{\Phi}$ in AGT trials
- R blackleg rating (with fungicide), RMR blackleg rating (without fungicide)
- Group A blackleg resistance

Grain yield of Outlaw$^{\Phi}$ versus comparator varieties



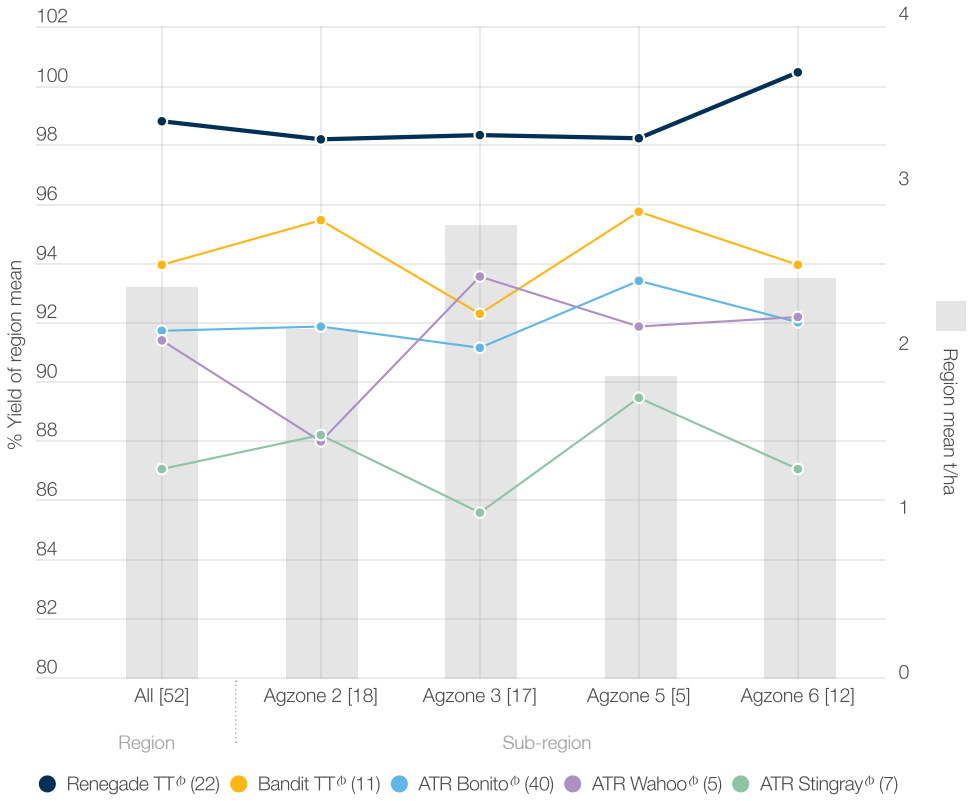
Source: AGT canola trials 2019-2021 (19 sites across WA, SA, Vic, southern NSW)

More information

Renegade TT$^{\Phi}$

- Triazine Tolerant, Open Pollinated
- Quick to flower, between HyTTec® Trident and HyTTec® Trophy, a little quicker than ATR Bonito$^{\Phi}$
- Best performance under medium yield potential conditions with competitive profitability
- Oil content higher than ATR Stingray$^{\Phi}$, similar to HyTTec® Trident
- R blackleg rating (with fungicide), MR blackleg rating (without fungicide)
- Group A blackleg resistance

Predicted grain yield – NVT 'medium/high rainfall' (mid maturing) canola series



Source: NVT long term MET analysis, medium/high rainfall triazine canola trial series 2018-2022

More information

Lucrative lupin varieties developed in WA

Two new lupin varieties, developed in Western Australia, are set to significantly increase productivity of the state's most important grain legume.

Bred by leading field crop breeder Australian Grain Technologies (AGT), the varieties Gidgee$^{\Phi}$ and Rosemont$^{\Phi}$ are named after WA goldmines, a nod to the resemblance of lupin grain to profitable 'golden nuggets'.

Released by AGT lupin breeder Dr Matt Aubert at the Mingenew Irwin Group Spring Field Day on Wednesday 6th September, the new varieties offer a leap forward for lupin growers, each one a package of exciting traits, but most importantly, significant yield and profitability increases.

"Gidgee$^{\Phi}$ is a really good all-rounder, but has particularly shone in the northern and central lupin growing regions of WA, while Rosemont$^{\Phi}$, with a slightly slower maturity, displays a significant advantage in southern growing areas or regions experiencing a kinder finish", said Matt.

"Both varieties share some key traits, like metribuzin tolerance, resistance to seed splitting, cucumber mosaic virus and stem phomopsis".

Matt Aubert inspecting a Rosemont$^{\Phi}$ seed production paddock.

Lupin Breeder Matt Aubert, and Variety Support Manager Floyd Sullivan, at the launch of Gidgee$^{\Phi}$ and Rosemont$^{\Phi}$.

"But mostly, it's the yield advantage that these varieties offer over currently grown varieties that has us excited, with both Gidgee$^{\Phi}$ and Rosemont$^{\Phi}$ having produced over 5% higher yields compared with Coyote$^{\Phi}$, 6% above PBA Jurien$^{\Phi}$, and a huge 13% over Mandelup$^{\Phi}$ in AGT trials".

Plant breeding is a slow process, but AGT have now released four lupin varieties since 2016 when AGT acquired the lupin breeding program from the WA Department of Primary Industries and Regional Development (DPIRD).

"These two new varieties have been developed using plant material from the department's original breeding pipeline, before it was transferred to AGT", DPIRD Grains Director Kerry Regan said.

"It's exciting to see varieties being released with improved attributes that play a crucial role in boosting the yield and profitability of lupins in WA"

Floyd Sullivan, AGT's WA Variety Support Manager, said there is already a ground-swell of excitement in grower-land for these improved lupin varieties.

"Even before the varieties were officially released, the main question we've been getting asked is 'when can I get my hands on seed?' ".

"We have been talking about Gidgee$^{\Phi}$ and Rosemont$^{\Phi}$ for a little while now, and I guess growers are seeing the potential that they offer to their systems".

"To get these varieties out to growers even quicker, we have fast tracked the seed production, using summer multiplication in conjunction with winter, so that growers have the best lupin varieties in their paddocks as soon as possible".

Limited seed of both Gidgee$^{\Phi}$ and Rosemont$^{\Phi}$ is available through AGT Affiliates and local retailers for the 2024 growing season.

Lupin

Agronomic comparisons

	Coyote$^{\phi}$	Gidgee$^{\phi}$	Rosemont$^{\phi}$	Mandelup$^{\phi}$	PBA Barlock$^{\phi}$	PBA Jurien$^{\phi}$
Metribuzin Tolerance	T	T	T	T	T	T
Split Seed	T	T	T	MTMI	MTMI	I-VI
Alkaloid Content	Very Low	Very Low	Very Low	Low-Moderate	Low-Moderate	Very Low
Plant Height	Short-Medium	Short-Medium	Tall	Medium-Tall	Short	Medium
Early Vigour	Good	Very Good	Excellent	Very Good	Good	Good
Lodging	MR	MS	MRMS	MRMS	MR	MS
Flower Colour	White-Dark Purple	White-Purple	White-Pink	White-Purple	White-Purple	White-Purple
Seed Coat	Brown Speckle	Light Speckle	White-Light Speckle	Brown Speckle	Brown Speckle	Light Speckle

Disease rating comparisons

	Coyote$^{\phi}$	Gidgee$^{\phi}$	Rosemont$^{\phi}$	Mandelup$^{\phi}$	PBA Barlock$^{\phi}$	PBA Jurien$^{\phi}$
Anthracnose	MRMS	MR	MRMS*	MRMS	RMR	RMR
Bean Yellow Mosaic Virus	MR	MS	MR	MS	MS	MRMS
Brown Spot	MS	MS	MS	MS	MS	MS
Cucumber Mosaic Virus	MRMS	MR*	MR*	MS	MR	MR
Grey Spot	R	R*	R*	R	R	R
Pod *Phomopsis*	MRMS	S*	MS*	S	MR	MR
Stem *Phomopsis*	S	MR*	MR*	RMR	MR	RMR

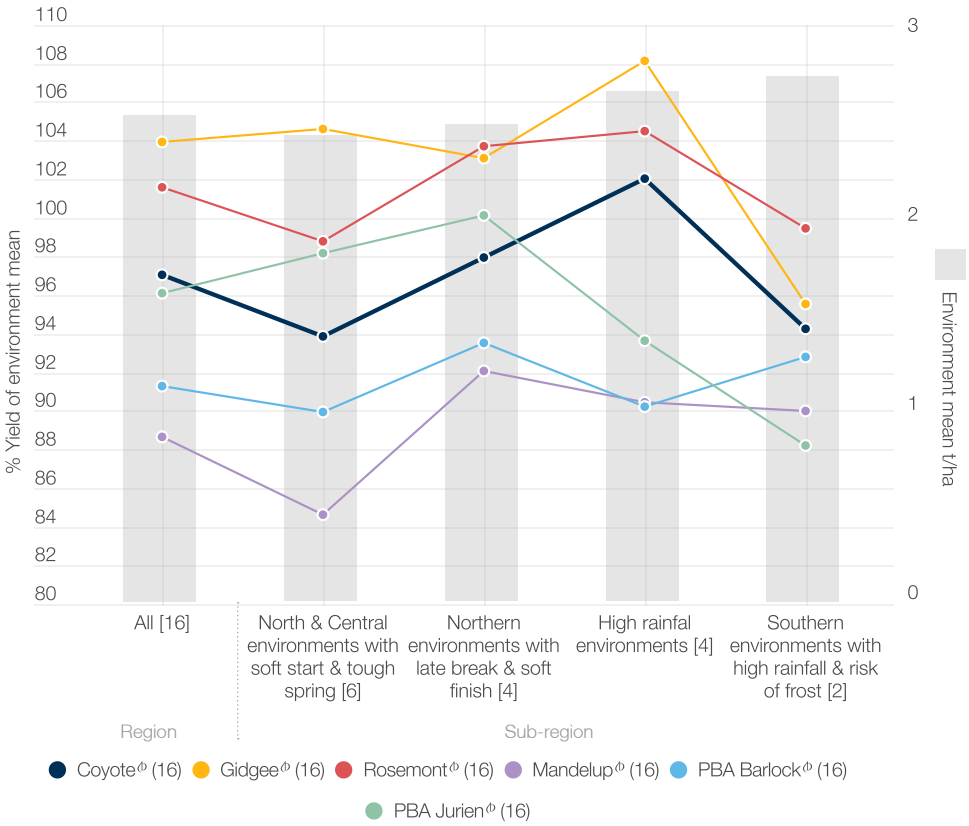
R Resistant
MR Moderately Resistant
MS Moderately Susceptible
S Susceptible
VS Very Susceptible
* Provisional rating

Source: NVT consensus ratings 2022 and AGT

Coyote$^{\Phi}$

- Wide adaptation
- Metribuzin tolerant
- Reduced risk of seed splitting compared with PBA Jurien$^{\Phi}$
- Susceptible to stem *Phomopsis*
- Slightly slower maturity relative to PBA Jurien$^{\Phi}$

AGT Long term yield data



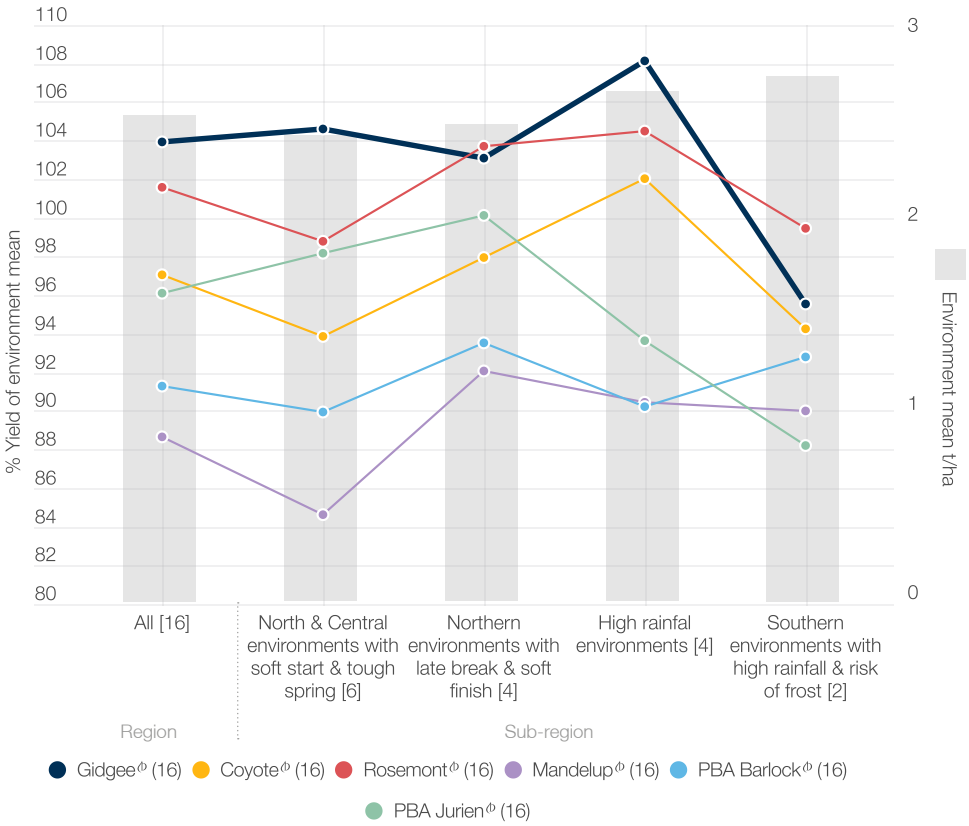
Source: AGT long term MET analysis (2018-2022), WA sites
[ ] Total number of trials per region
( ) Number of trials that each variety was present in across the WA dataset [16]

More information

Gidgee$^{\Phi}$

- A very high and stable yielding alternative to PBA Jurien$^{\Phi}$ and Mandelup$^{\Phi}$
- Widely adapted but particularly well adapted to the northern and central wheatbelt of WA
- Metribuzin tolerant
- Reduced risk of seed splitting compared with PBA Jurien$^{\Phi}$
- Moderately resistant to stem *Phomopsis*
- Good CMV resistance
- Slightly quicker maturity relative to PBA Jurien$^{\Phi}$, slightly slower than Mandelup$^{\Phi}$

AGT Long term yield data



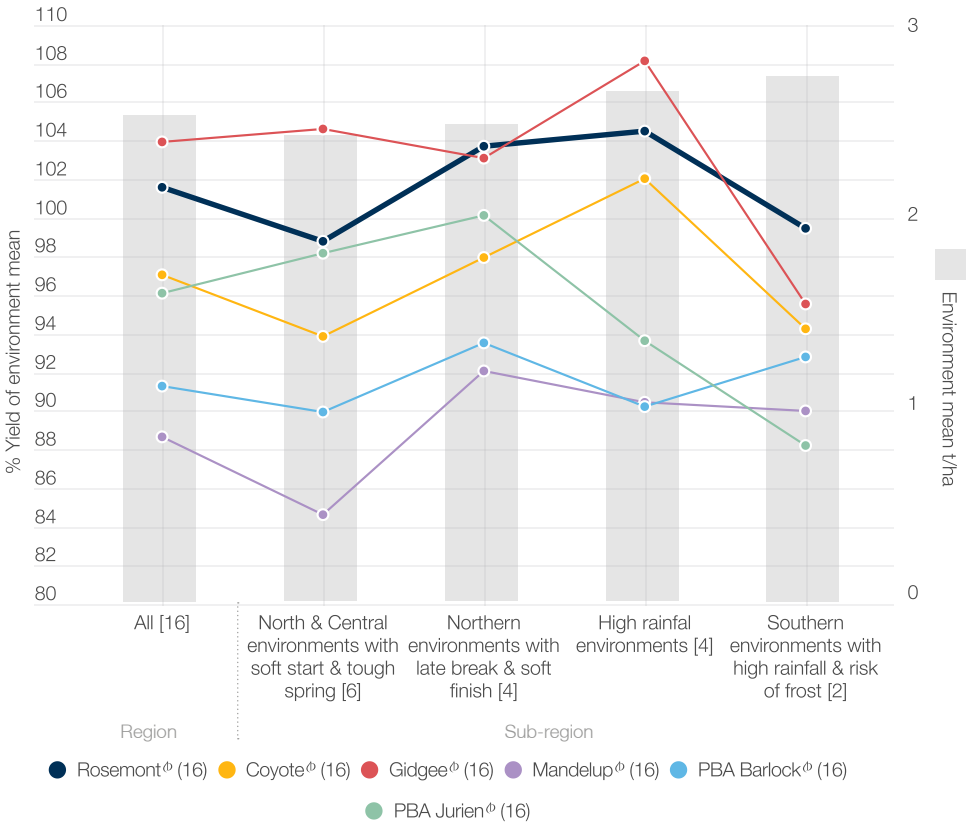
Source: AGT long term MET analysis (2018-2022), WA sites
[ ] Total number of trials per region
( ) Number of trials that each variety was present in across the WA dataset [16]

More information

Rosemont$^{\Phi}$

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

AGT Long term yield data



Source: AGT long term MET analysis (2018-2022), WA sites
[ ] Total number of trials per region
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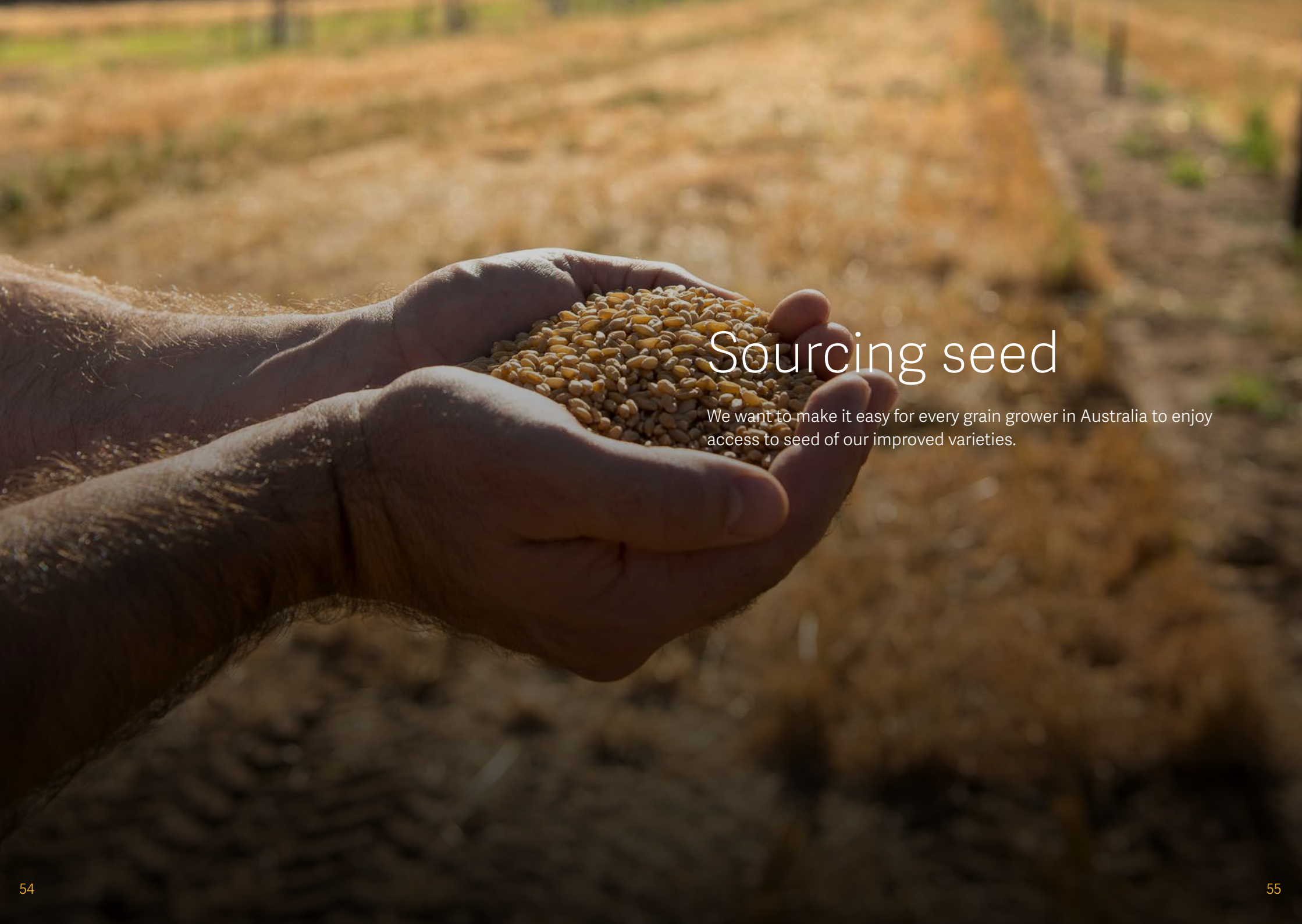
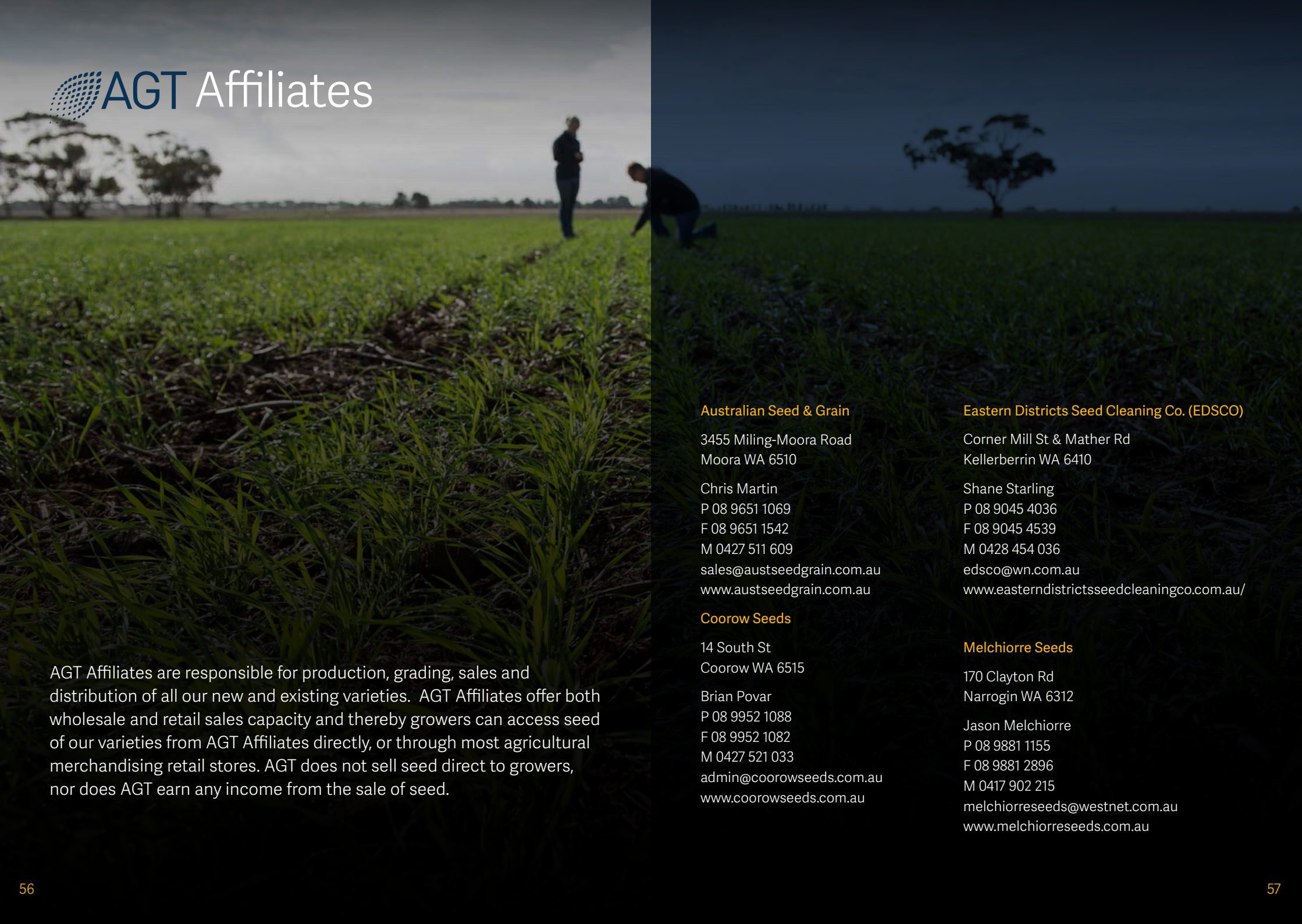
More information



Sourcing seed

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

AGT Affiliates



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.

Australian Seed & Grain

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M 0427 511 609
sales@austseedgrain.com.au
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www.coorowseeds.com.au

Eastern Districts Seed Cleaning Co. (EDSCO)

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M 0428 454 036
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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 a licensed farmer to farmer trading scheme whereby grain of selected AGT varieties may be traded between farmers to use as seed.

Farmers who have grown a crop using commercial seed purchased from a recognised seed retailer or AGT Affiliate may sell seed to another farmer at a price or arrangement negotiated between them, providing they complete an AGT Seed Sharing™ License Agreement form. End Point Royalties are not charged on seed sold through Seed Sharing™.

Seed Sharing™ is allowed for all AGT wheat, durum, barley, canola and lupin varieties.

For the full terms and conditions and to download the AGT Seed Sharing™ License Agreement visit: agtbreeding.com.au/sourcing-seed/seed-sharing

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