

2024
Southern NSW
Field Crop Variety Guide



Variety Quick Guide

Southern NSW

	Crop Type	Variety	Quality Classification	Planting Window			Herbicide Tolerance	More information
				Early	Main	Late		
Page 6	Wheat	Boree [Ⓛ]	APH		✓	✓	-	Page 8
		Calibre [Ⓛ]	APH		✓	✓	-	Page 10
		Catapult [Ⓛ]	AH	✓	✓		-	Page 12
		Coota [Ⓛ]	APH	✓	✓		-	Page 14
		Hammer CL Plus [Ⓛ]	AH		✓	✓	Clearfield® (Intervix®)	Page 16
		Illabo [Ⓛ]	APH	✓			-	Page 18
		Leverage [Ⓛ] New	APH	✓	✓		-	Page 20
		Sunblade CL Plus [Ⓛ]	APH		✓		Clearfield® (Intervix®)	Page 24
		Sundancer [Ⓛ] New	APH	✓	✓		-	Page 26
		Sunmaster [Ⓛ]	APH		✓		-	Page 28
		Tomahawk CL Plus [Ⓛ] New	APW		✓	✓	Clearfield® (Intervix®)	Page 30
Page 35	Barley	Beast [Ⓛ]	Feed*		✓	✓	-	Page 36
		Cyclops [Ⓛ]	Feed*		✓	✓	-	Page 38
		Minotaur [Ⓛ]	Feed*		✓		-	Page 40
		Titan AX [Ⓛ]	Feed*		✓		CoAxiium® (Aggressor®)	Page 42
Page 47	Canola	Bandit TT [Ⓛ]	CAN		✓	✓	Triazine	Page 48
		Outlaw [Ⓛ]	CAN		✓	✓	-	Page 50
		Renegade TT [Ⓛ]	CAN		✓	✓	Triazine	Page 52
Page 55	Lupin	Coyote [Ⓛ]	Feed		✓	✓	Metribuzin	Page 56
		Lawler [Ⓛ]	Feed		✓	✓	Metribuzin	Page 58

*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)
Boree [®] wheat	\$3.60
Calibre [®] wheat	\$3.50
Catapult [®] wheat	\$3.25
Coota [®] wheat	\$3.60
Hammer CL Plus [®] wheat	\$4.25
Illabo [®] wheat	\$3.50
Leverage [®] wheat	\$4.00
Sunblade CL Plus [®] wheat	\$4.35
Sundancer [®] wheat	\$4.00
Sunmaster [®] wheat	\$3.60
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
Lawler [®] lupin	\$4.00

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.

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

	Summaster [®]	Boree [®]	Calibre [®]	Beckom [®]	LRPB Hellfire [®]	LRPB Mustang [®]	Suntop [®]	Vixen [®]	Scepter [®]
Quality Classification	APH	APH	APH	AH	APH	APH	APH	APH	AH
Maturity	Mid	Mid	Quick-mid	Mid	Quick-mid	Quick-mid	Mid	Quick	Mid
Stem Rust	MS	MR	MR	MRMS	MR	MRMS	MRMS	MRMS	MRMS
Stripe Rust	MRMS	SVS	S	MRMS	MRMS	MR	MRMS	SVS	MSS
Leaf Rust	RMR	S	S	MSS	MSS	MSS	MR	SVS	MSS
Yellow Leaf Spot	MSS	MRMS	MRMS	MSS	MSS	MSS	MSS	MRMS	MRMS
Septoria tritici Blotch	S	SVS	S	S	S	S	MSS	S	S
Powdery Mildew	S	SVS	S	MSS	S	NA	NA	SVS	SVS
Black Point	MR	S	MS*	MRMS	S	MS	MSS	MS*	MS

Early sowing comparisons

	Catapult [®]	Coota [®]	Illabo [®]	Leverage [®]	Sundancer [®]	Coolah [®]	LRPB Lancer [®]	Rockstar [®]
Quality Classification	AH	APH	APH	APH	APH	APH	APH	APH
Maturity	Mid-slow spring	Mid-slow spring	Mid-quick winter	Mid-slow spring	Mid-slow spring	Mid-slow spring	Mid-slow spring	Mid-slow spring
Stem Rust	MR	RMR	MRMS	MR*	MR*	MR	R	MRMS
Stripe Rust	S	S	MRMS	MRMS*	MR*	MSS	RMR	S
Leaf Rust	S	MR	S	RMR*	RMR*	RMR	RMR	S
Yellow Leaf Spot	MRMS	MSS	MS	MRMS*	MS*	MSS	MS	MRMS
Septoria tritici Blotch	MSS	S	MSS	S*	S*	MSS	MS	S
Powdery Mildew	S	S	R	SVS	SVS	NA	NA	SVS
Black Point	S	MS	MRMS	NA	NA	NA	NA	MSS

Clearfield[®] comparisons

	Hammer CL Plus [®]	Sunblade CL Plus [®]	Tomahawk CL Plus [®]	Razor CL Plus [®]	Sheriff CL Plus [®]	Valiant CL Plus [®]
Quality Classification	AH	APH	APW	ASW	APW	FEED
Maturity	Quick-mid	Mid	Mid	Quick-mid	Mid	Slow
Stem Rust	MR	MS	MR*	MRMS	MS	MR
Stripe Rust	MS	MRMS	MSS*	MS	S	MSS
Leaf Rust	S	MSS	S*	S	SVS	S
Yellow Leaf Spot	MRMS	MSS	MRMS*	MSS	MRMS	MRMS
Septoria tritici Blotch	MSS	S	S*	SVS	S	MSS
Powdery Mildew	MSS	SVS	SVS	MSS	SVS	VS
Black Point	MRMS	MRMS	MS*	MS	MS	MS*

R Resistant
 MR Moderately Resistant
 MS Moderately Susceptible
 S Susceptible

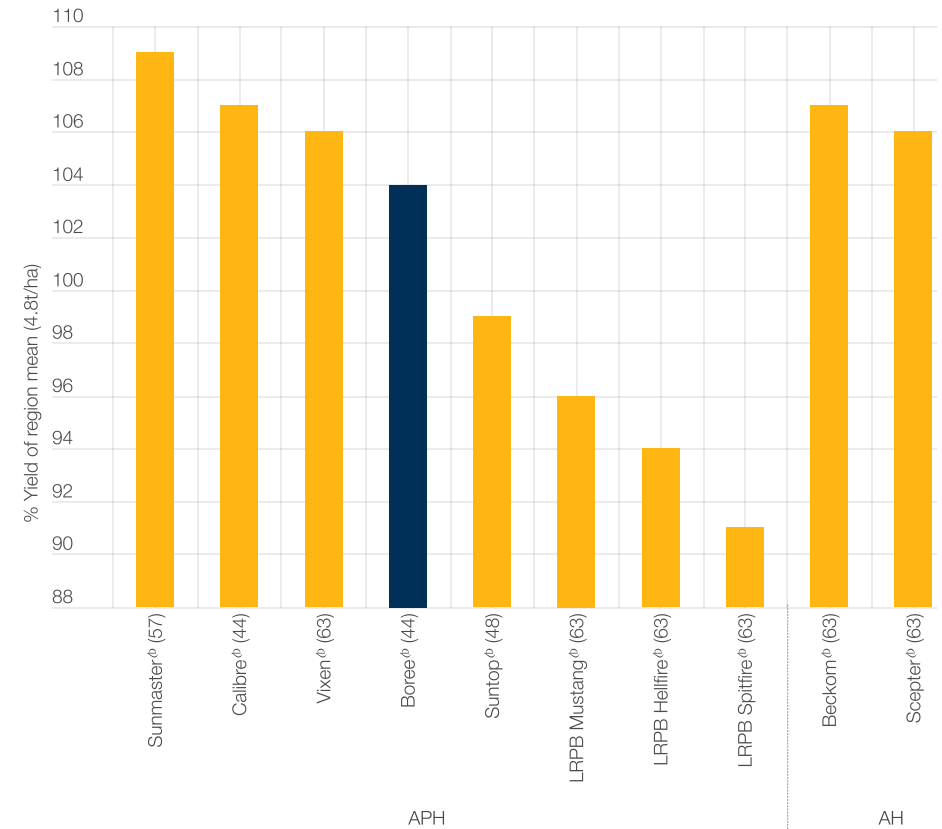
VS Very Susceptible
 NA Not Available
 * Provisional rating

Source: NVT consensus ratings 2022 and AGT



- Elite yielding APH quality variety for main season sowing
- Mid season maturity, similar to Beckom and Scepter
- Broadly adapted, suits a range of soil types and environments
- Suitable for wheat-on-wheat rotations, with good yellow leaf spot resistance
- Good lodging resistance

Predicted grain yield of Boree[®] versus comparators – Southern NSW



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

() Number of trials that each variety was present in across the southern NSW dataset [63]

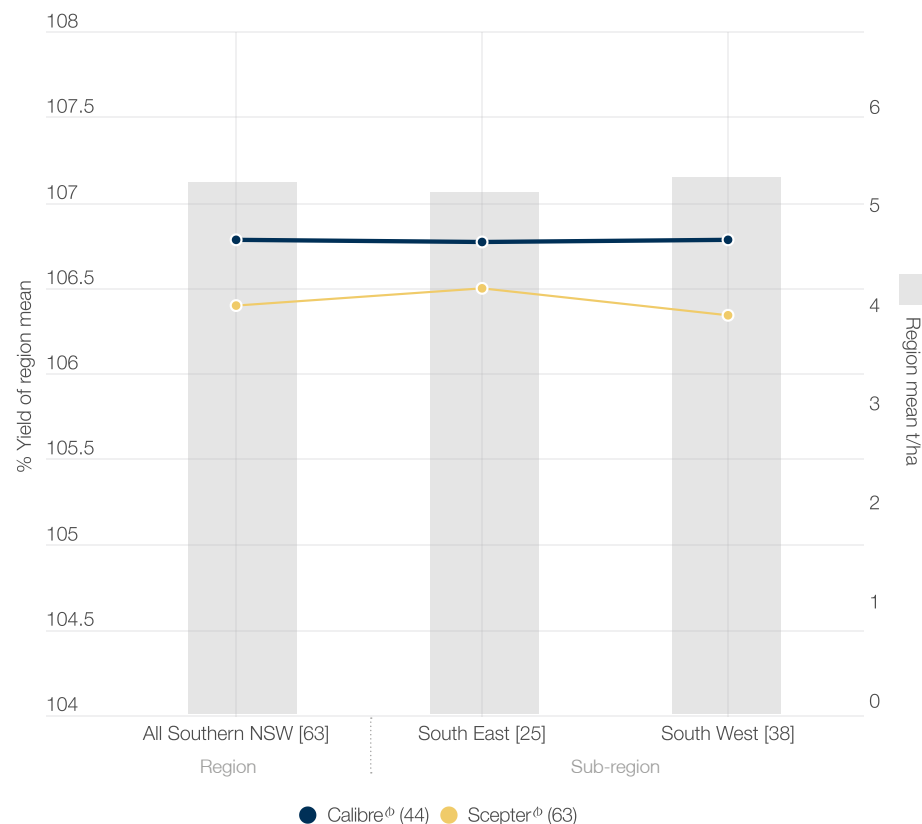
More information





- Elite grain yield, similar to Scepter[®]
- APH quality classification in southern NSW
- Derived from popular variety Scepter[®]
- Quick-mid maturity, slightly quicker than Scepter[®]
- Very widely adapted, suited to most growing regions of southern NSW
- Good sprouting tolerance, similar to Scepter[®]
- Longer coleoptile than most commonly grown varieties
- Improved powdery mildew resistance over Scepter[®]

Predicted grain yield of Calibre[®] versus Scepter[®]



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 southern NSW dataset [63 trials]

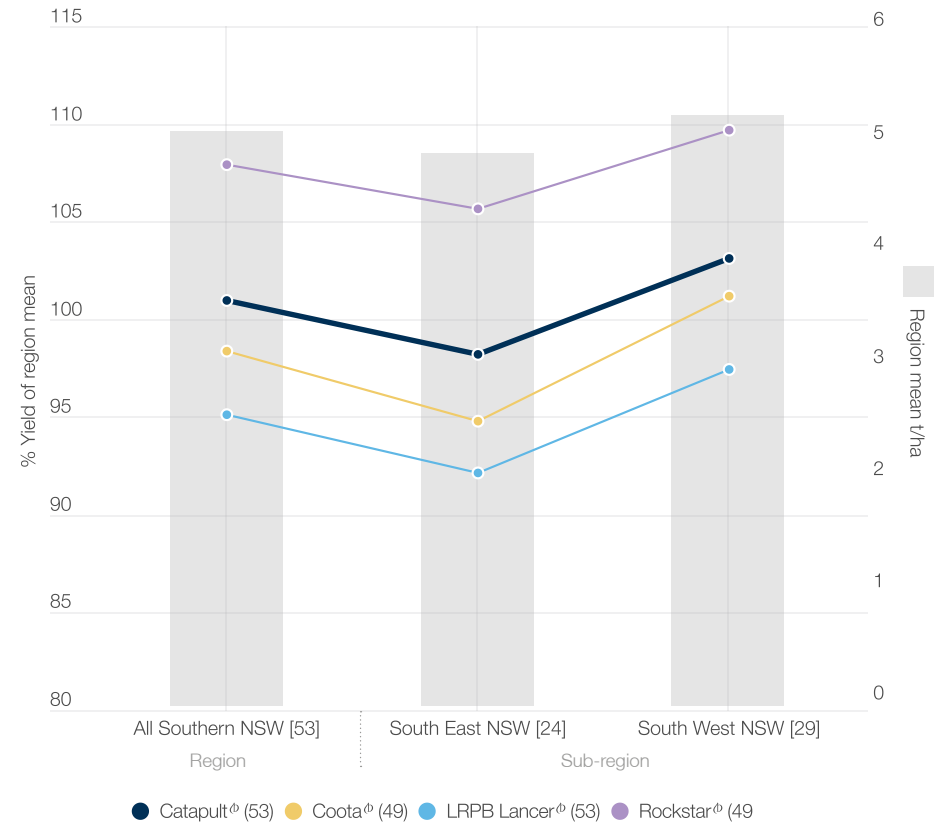
More information





- 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
- Better CCN resistance than LRPB Trojan[®] and Rockstar[®]
- Very good physical grain characteristics with an AH quality classification

Predicted grain yield of Catapult[®] versus comparators



Source: NVT long term MET analysis, early sown trial series 2018-2022
 [] Total number of trials per region
 () Number of trials that each variety was present in across the southern NSW dataset [53]

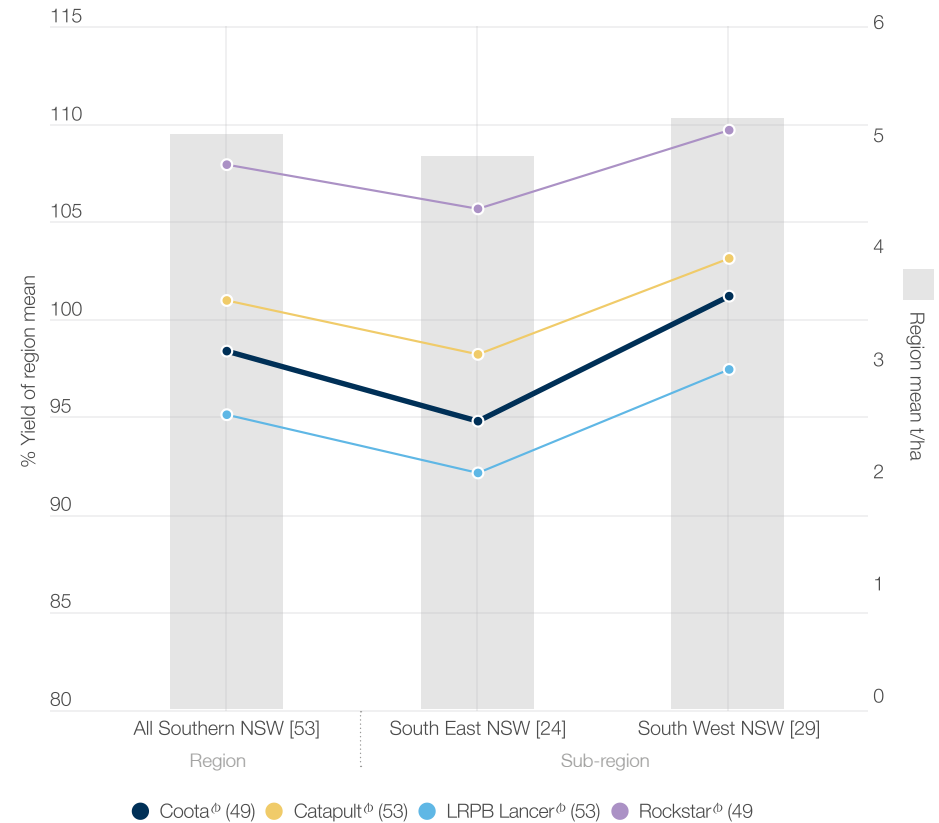
More information





- High yielding in early sown trials and situations
- Mid-slow maturity, best suited to end of April - beginning of May sowing
- APH quality classification with low screenings and high test weights
- Very good black point resistance
- Excellent lodging resistance
- Alternative to LRPB Lancer[®], LRPB Stealth[®] and other earlier sowing options

Predicted grain yield of Coota[®] versus comparators



Source: NVT long term MET analysis, early sown trial series 2018-2022
 [] Total number of trials per region
 () Number of trials that each variety was present in across the southern NSW dataset [53]

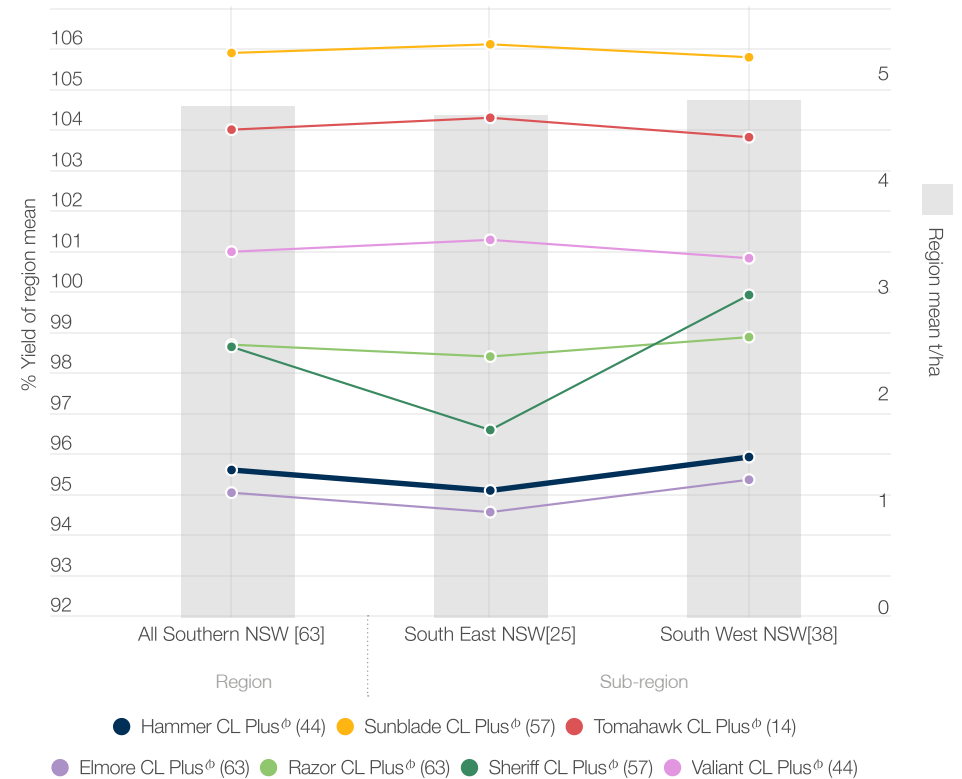
More information





- Closely related to Mace[®], with similar adaptation and yield
- AH quality classification with low screenings and high test weight
- Suitable for wheat on wheat situations
- Quick-mid maturity
- Tolerant to Clearfield[®] Intervix[®] herbicide

Hammer CL Plus[®] 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]



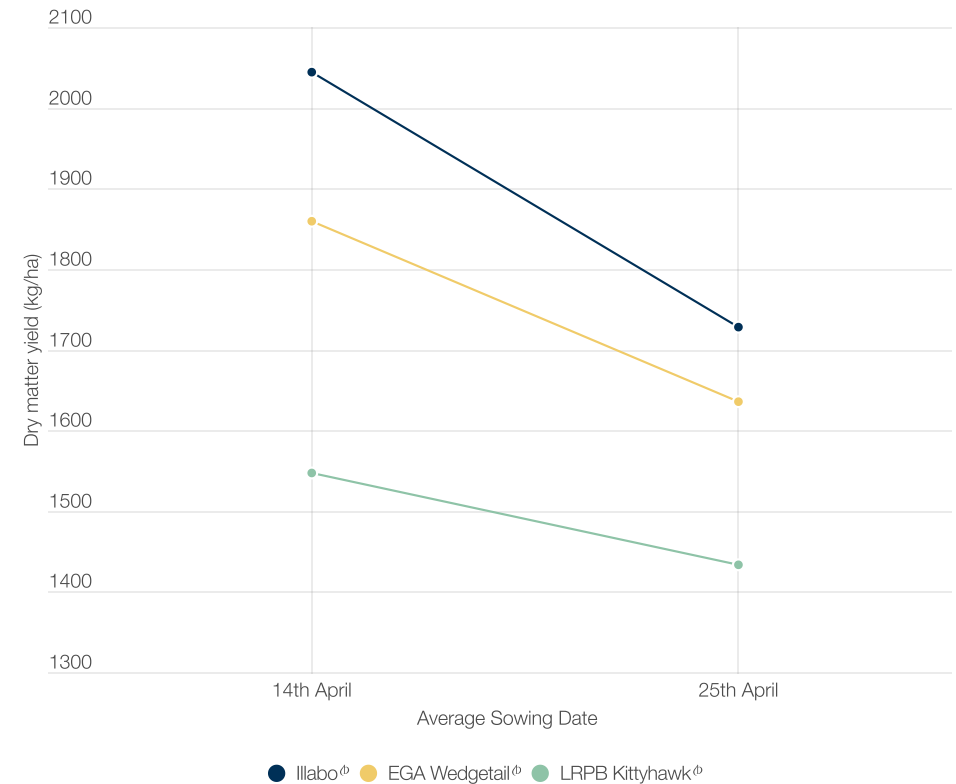
More information





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

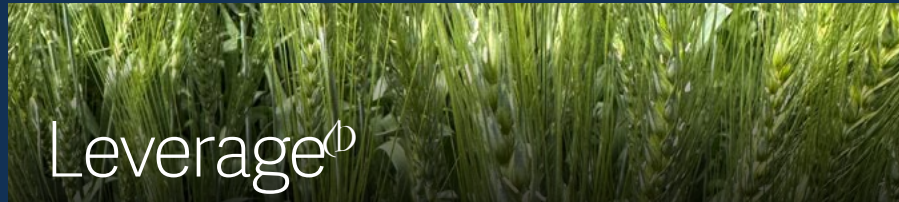
Dry matter production of Illabo[®] in response to sowing date



Source: AGT grazing trials, Collingullie NSW, 2017-2020

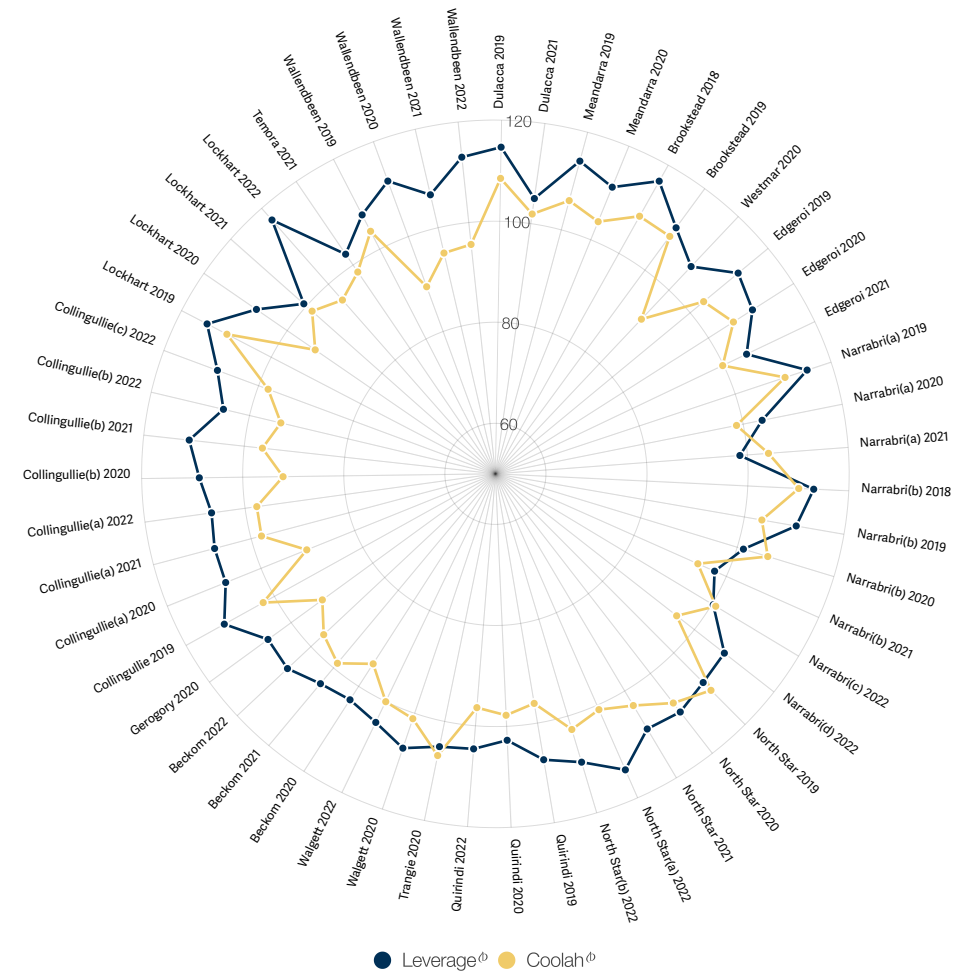
More information





- Replacement for EGA Gregory[Ⓟ], Coolah[Ⓟ] and LRPB Flanker[Ⓟ]
- Very high yielding in the early planting window
- APH quality classification
- Good resistance to major diseases
- Mid-slow maturity, suited to late April/early May plantings
- Good yellow leaf spot resistance
- Good physical grain quality characteristics
- Shorter plant type than other “EGA Gregory[Ⓟ]” type varieties

Grain yield comparison between Leverage[Ⓟ] and Coolah[Ⓟ]
- AGT individual site analysis



Source: AGT individual site analysis, 51 sites in NSW and Queensland from 2018 to 2022

More information



Significant yield improvements offered by new AGT wheat varieties

The varieties Sundancer[®] and Leverage[®] were unveiled at the annual Narrabri Field Day held at the University of Sydney Plant Breeding Institute on September 19th, with both raising the bar in yield performance.

Both are mid-late maturing, suited to late April-early May planting, with Sundancer[®] viewed as a direct LRPB Lancer[®] replacement, while Leverage[®] is a successor to all 'EGA Gregory' type varieties.

AGT wheat breeder Meiqin Lu regards the launch of Sundancer[®] as a huge breeding success, with the variety standing out from the pack very early in her breeding program.

"We identified Sundancer[®]'s potential very quickly, yield potential stood out from the beginning" she said.

"Maintaining a high level of stripe rust resistance was very important when developing a LRPB Lancer[®] replacement, whilst increasing straw strength and yield. We have achieved this with Sundancer[®], along with an APH quality classification".

"With a summer seed increase, we were able to bring it to release only eight years after the cross was made. Being able to shorten the breeding cycle means that we can better address current disease pathotypes and better meet the needs of growers in our region.



Dr Meiqin Lu presented Sundancer[®] wheat to the crowd at the Narrabri field day.

AGT northern NSW & Queensland Variety Support Manager, Douglas Lush, sees Sundancer[®] as a variety that is perfectly suited to NSW and Queensland.

"Sundancer[®] is set to challenge the dominance of LRPB Lancer[®], which has been a reliable variety for some time now. However, LRPB Lancer[®] is now outclassed for grain yield".

"The yield jump that Sundancer[®] offers is significant. In the early season 2022 NVT results, with a trial average yield of 5.4 tonne per hectare, Sundancer[®] delivered over 15% more grain yield than LRPB Lancer[®] across NSW and Queensland.



AGT's Narrabri team at the launch of Sundancer[®] and Leverage[®] wheat varieties.

"We've observed this yield advantage over the longer term too. In five years of AGT yield trials across a range of locations in NSW and Queensland, Sundancer[®] beat LRPB Lancer[®] in 36 out of the 39 trials analysed, with an average of 13% yield improvement.

Meiqin Lu also sees an important place on farm for Leverage[®], released to offer a significant improvement in yield over EGA Gregory[®], LRPB Flanker[®] and Coolah[®].

"Aiming to develop an improved 'Gregory' type, we carried out hard selection on our germplasm to reduce plant height, increase lodging resistance, and improve yields, whilst maintaining sound physical grain quality characteristics with an APH classification. We believe we achieved our goal with Leverage[®]".

Douglas Lush added "Leverage[®] has been dominant in its yield performance, beating 'Gregory' type varieties in the early planting window by more than 10%, across AGT long term breeding trials and the 2022 NVT trials".

"Leverage[®] also holds good resistance to yellow leaf spot, which is an uncommon rating for varieties that are well adapted to NSW and Queensland".



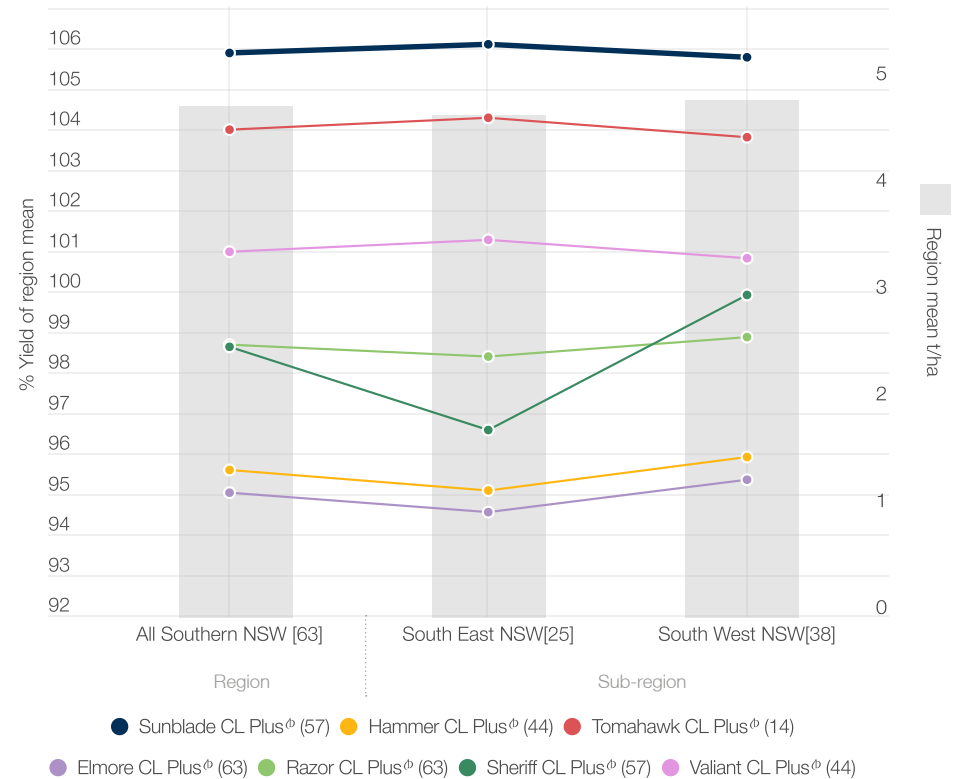
Douglas Lush took the microphone to answer grower's questions at the launch of Leverage[®] and Sundancer[®] wheat.



Sunblade CL Plus [Ⓢ]

- Australia's first and only APH quality Clearfield[®] variety
- Elite yields
- Derived from Suntop[Ⓢ], with similar maturity
- Good black point and stripe rust resistance
- Good levels of RLN (*P. thornei*) tolerance
- Tolerant to Clearfield[®] Intervix[®] herbicide

Predicted grain yield of Sunblade CL Plus[Ⓢ] versus comparators

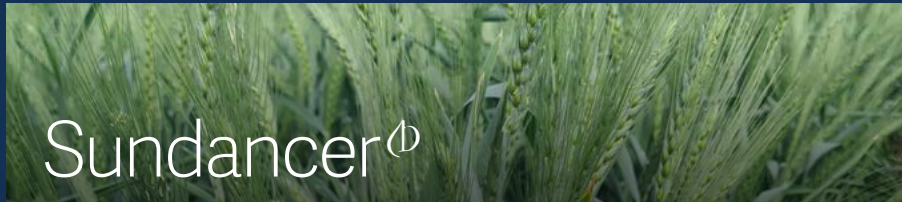


Source: NVT long term MET analysis, main season trial series 2018-2022
 [] Total number of trials per region
 () Number of trials that each variety was present in across the SA/VIC dataset [179]



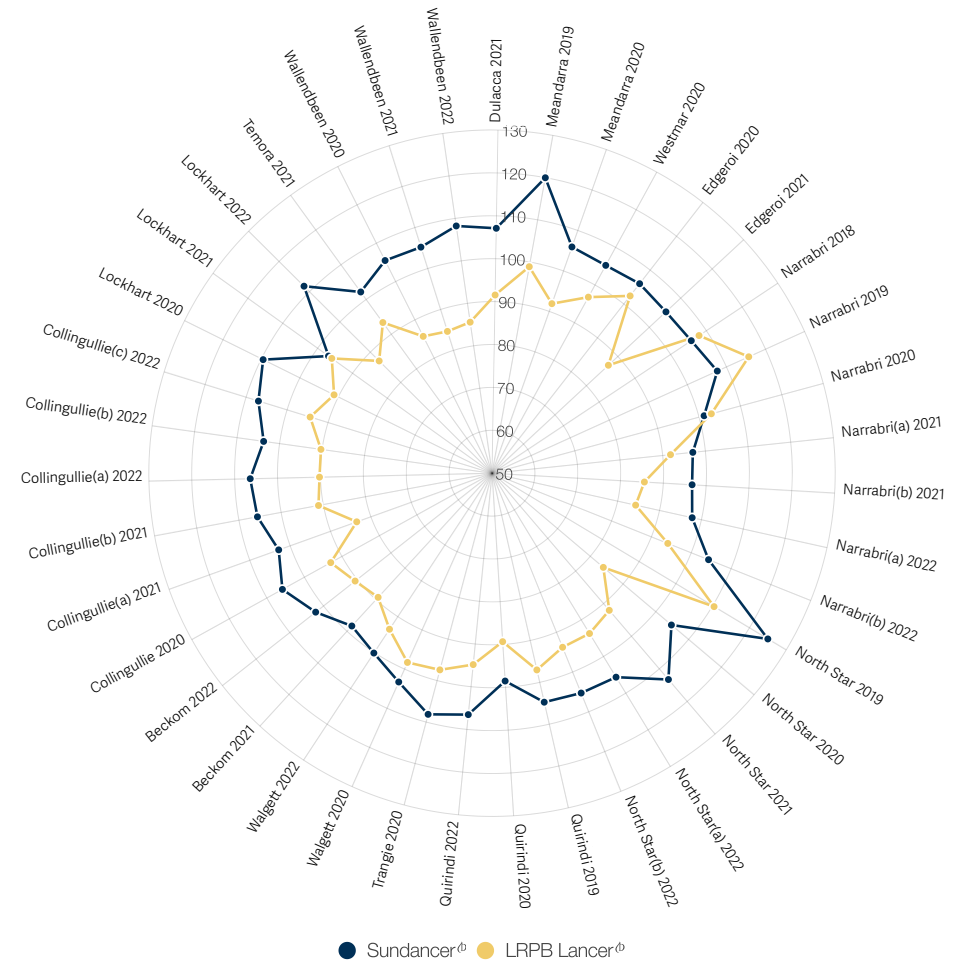
More information





- An ideal replacement for LRPB Lancer[®]
- Very high yielding, with excellent yield stability
- Suits late April/early May plantings
- Excellent rust resistance
- Medium-short plant type with better straw strength than LRPB Lancer[®]
- Longer coleoptile than LRPB Lancer[®] and other early season varieties
- APH quality classification in southern NSW

Grain yield comparison between Sundancer[®] and LRPB Lancer[®]
- AGT individual site analysis



Source: AGT individual site analysis, 39 sites in NSW and Queensland from 2018 to 2022

More information

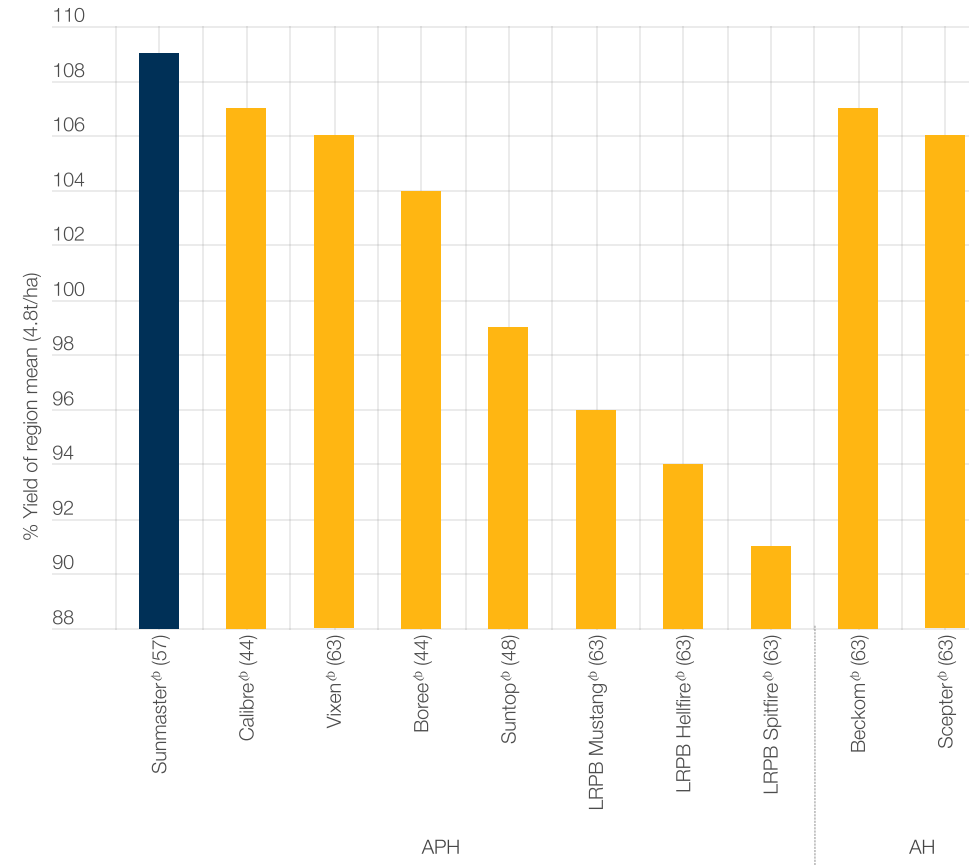




Sunmaster[®]

- Elite yield
- APH quality classification
- Mid season maturity similar to Suntop[®]
- Shorter plant type than Suntop[®], with good lodging tolerance
- Lower screenings losses compared to Suntop[®]
- Good tolerance to crown rot and RLN (*P. thornei*)

Predicted grain yield of Sunmaster[®] versus comparators – Southern NSW



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

() Number of trials that each variety was present in across the southern NSW dataset [63]

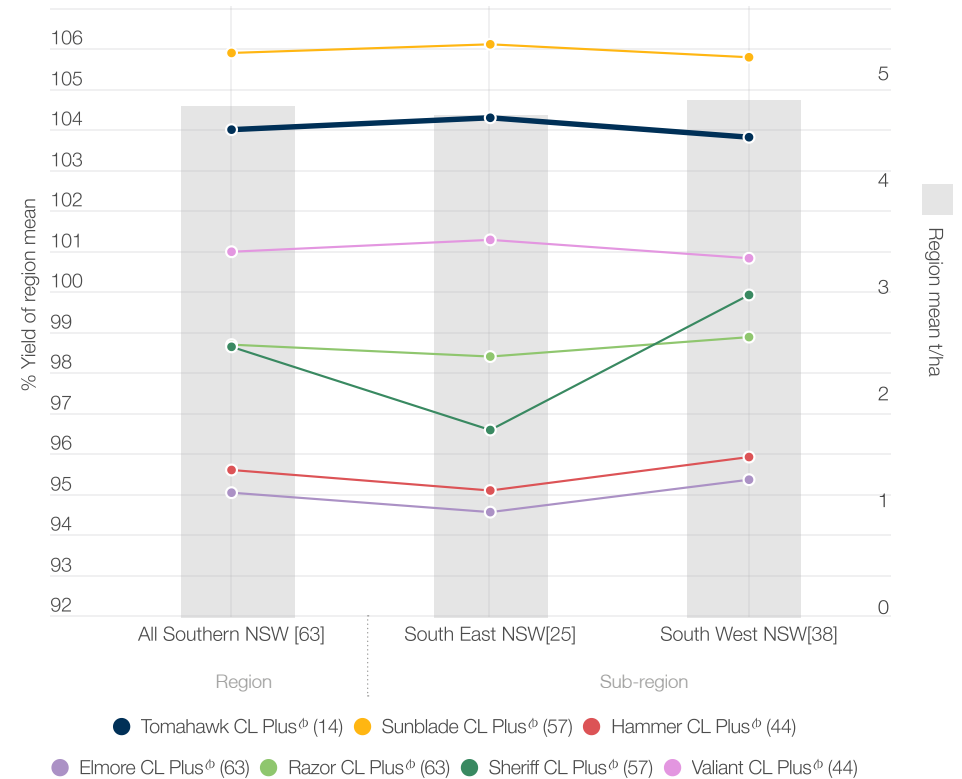
More information





- Scepter[®] type Clearfield[®] variety
- Similar disease resistance profile as Scepter[®]
- Similar grain size and test weight as Scepter[®]
- Mid-season maturity, similar to Scepter[®]
- Good sprouting tolerance, similar to Scepter[®]
- APW quality classification
- Tolerant to Clearfield[®] Intervix[®] herbicide

Predicted grain yield of Tomahawk CL Plus[®] 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[®] 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 Plus[®], 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

Plant characteristic 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 resistance comparisons

	Beast [®]	Cyclops [®]	Minotaur [®]	Titan AX [®]	Compass [®]	La Trobe [®]	Maximus CL [®]	RGT Planet [®]	Spartacus CL [®]
Spot Form of Net Blotch	MS	MS	S	MSS	MS	S	MS	SVS	S
Net Form of Net Blotch	MSS	MS	MRMS	MS	MSS	MRMS	MRMS	MSS	MSS
Leaf Rust	MSS	S	SVS	S	S	MS	MSS	MR	MRMS
CCN	MR	S	R	MR*	R	R	R	R*	R
Scald	SVS	S	VS	SVS	S	SVS	S	MSS	SVS

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

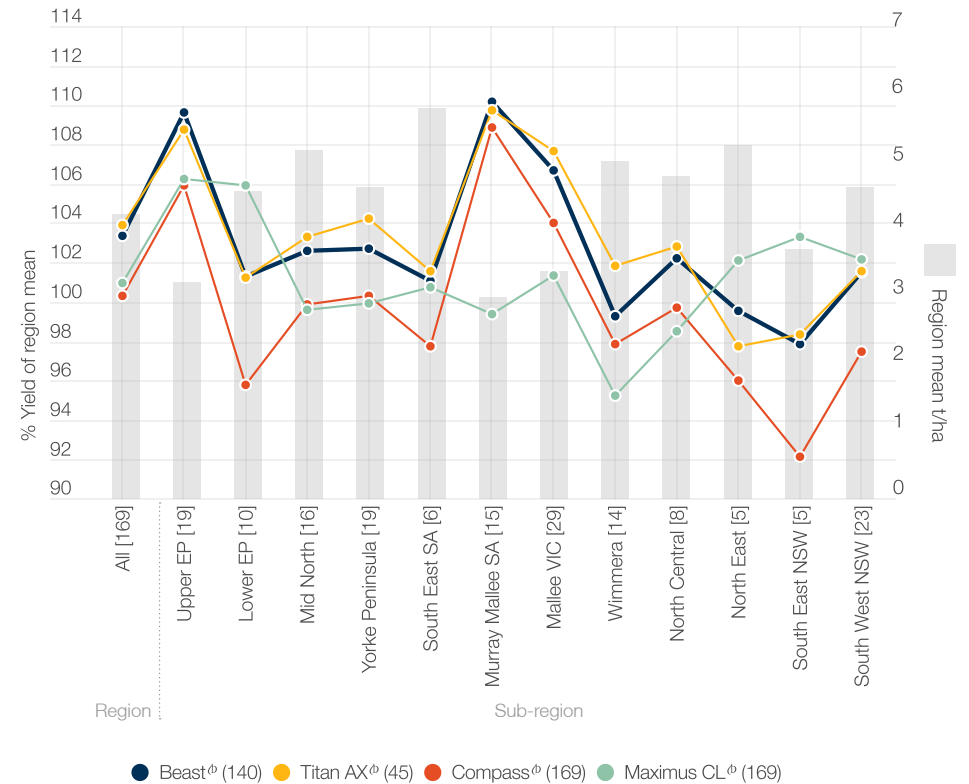
* Provisional rating

Source: NVT consensus ratings 2022



- Very high yielding in low-medium rainfall environments
- Quick maturity, quicker than Compass^ϕ
- Excellent performance in stressed, tight finishing environments and seasons
- Compass^ϕ 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^ϕ 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 SA/Vic/sNSW dataset [169]

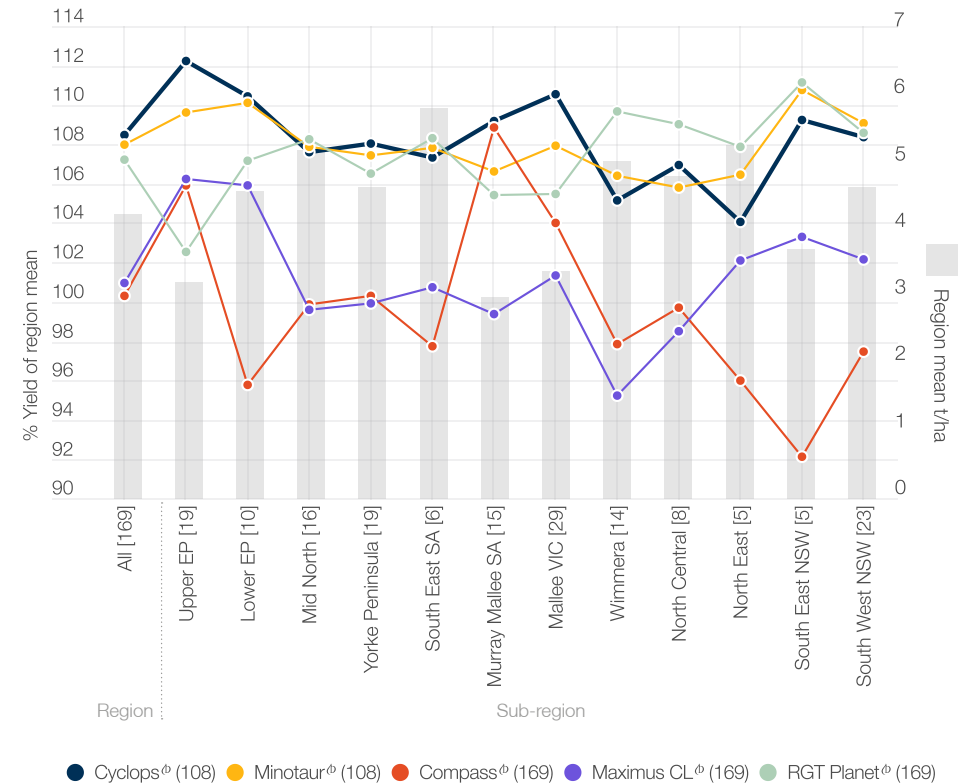
More information





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

Predicted grain yield of Cyclops^ϕ 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 SA/Vic/sNSW dataset [169]

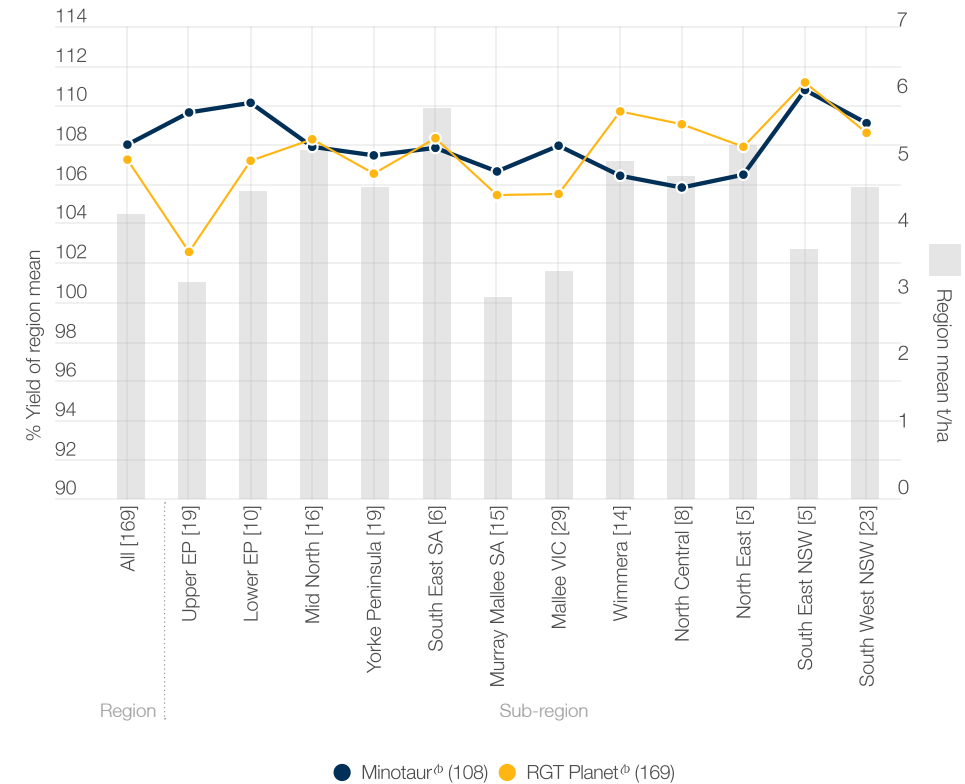
More information





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

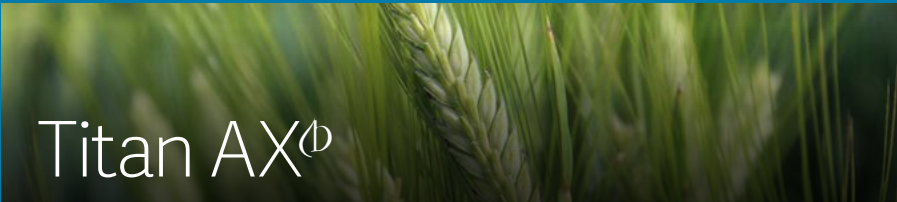
Predicted grain yield of Minotaur[Ⓟ] versus comparators



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 SA/Vic/sNSW dataset [169]

More information

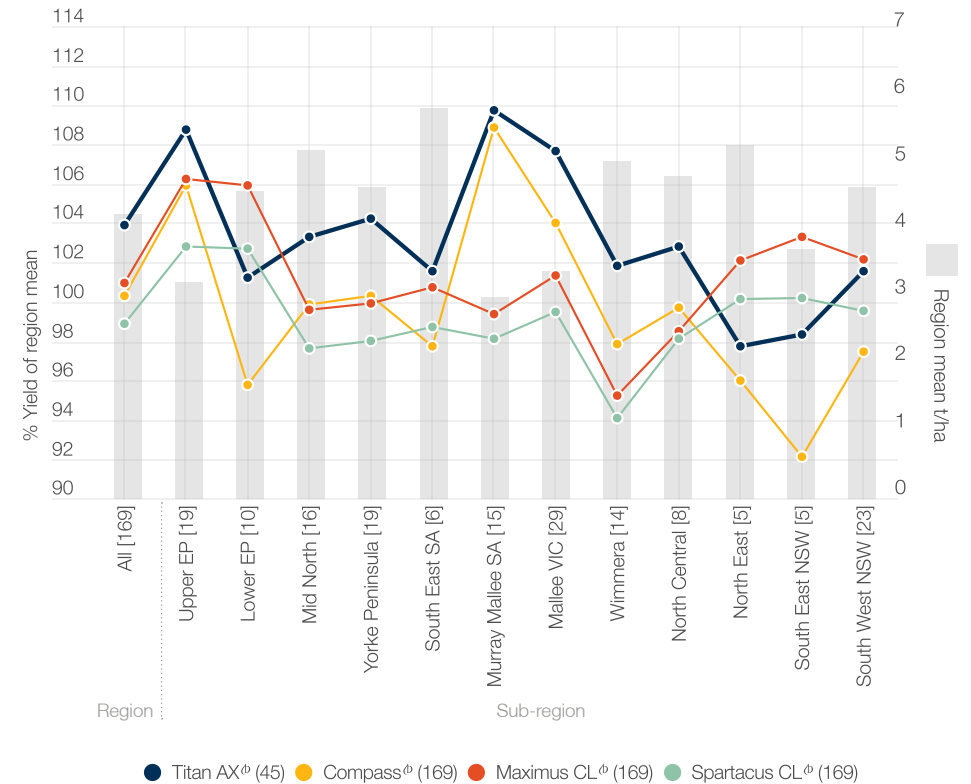




Titan AX^ϕ

- 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



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 SA/Vic/sNSW dataset [169]



More information



AGT renews commitment to supporting rural communities.

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.

Several restoration and renovation projects from Yuna in WA to North Star in NSW were



Photo: St Mary's Parish School Facebook

St Mary's Parish School used AGT Community Donation funding to produce the Lion King Jr. musical.

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.



The Macquarie Emus is a unique junior rugby club that brings together players from a number of rural towns and communities too small to sustain their own teams.

Canola

Triazine Tolerant variety comparisons

	Bandit TT [®]	Renegade TT [®]	ATR Bonito [®]	ATR Stingray [®]	ATR Wahoo [®]	HyITec [®] Trident	HyITec [®] 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 [®]	AV Garnet [®]	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

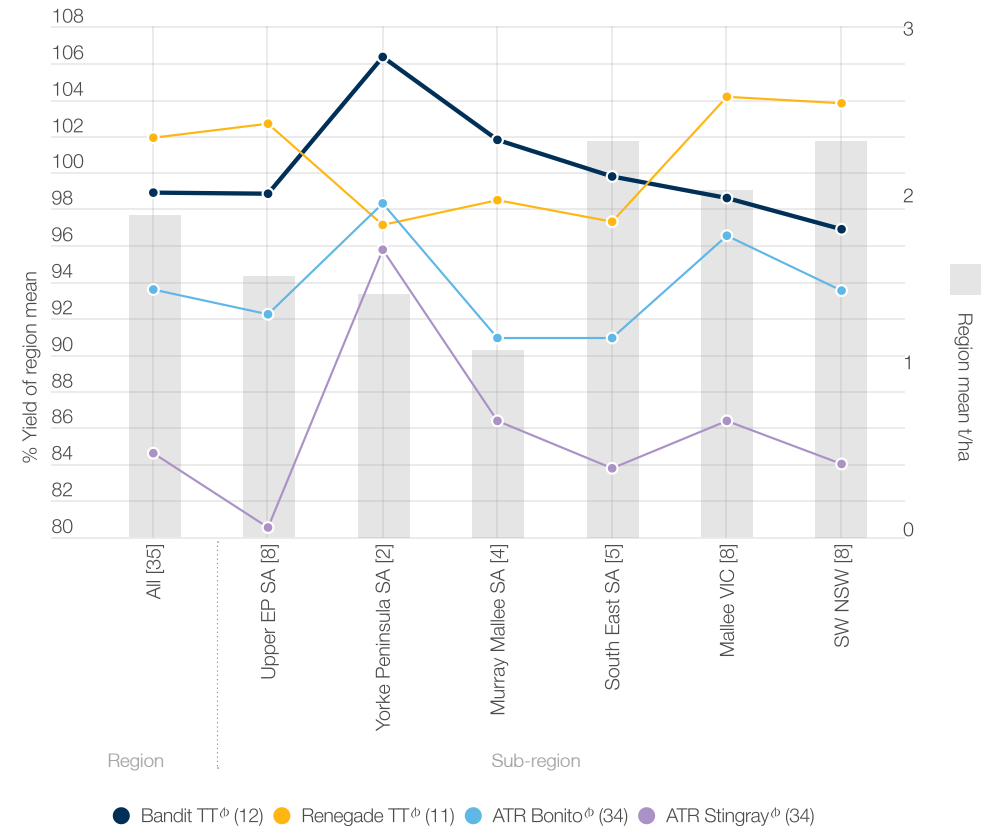
Source: NVT consensus ratings 2022 and AGT data



Bandit TT^ϕ

- Triazine Tolerant, Open Pollinated
- Very quick to flower, similar to ATR Stingray^ϕ 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^ϕ
- R blackleg rating (with fungicide), MRMS blackleg rating (without fungicide)
- Group A blackleg resistance

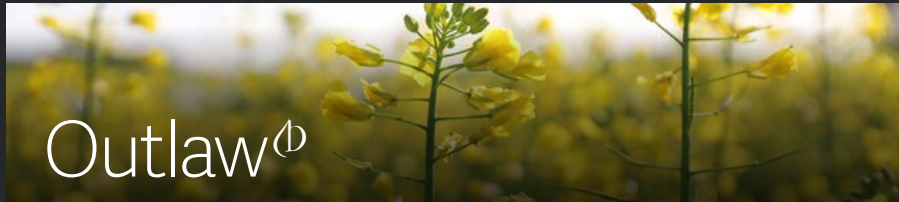
Predicted grain yield – NVT 'low/medium rainfall triazine' (quicker maturing) canola series



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

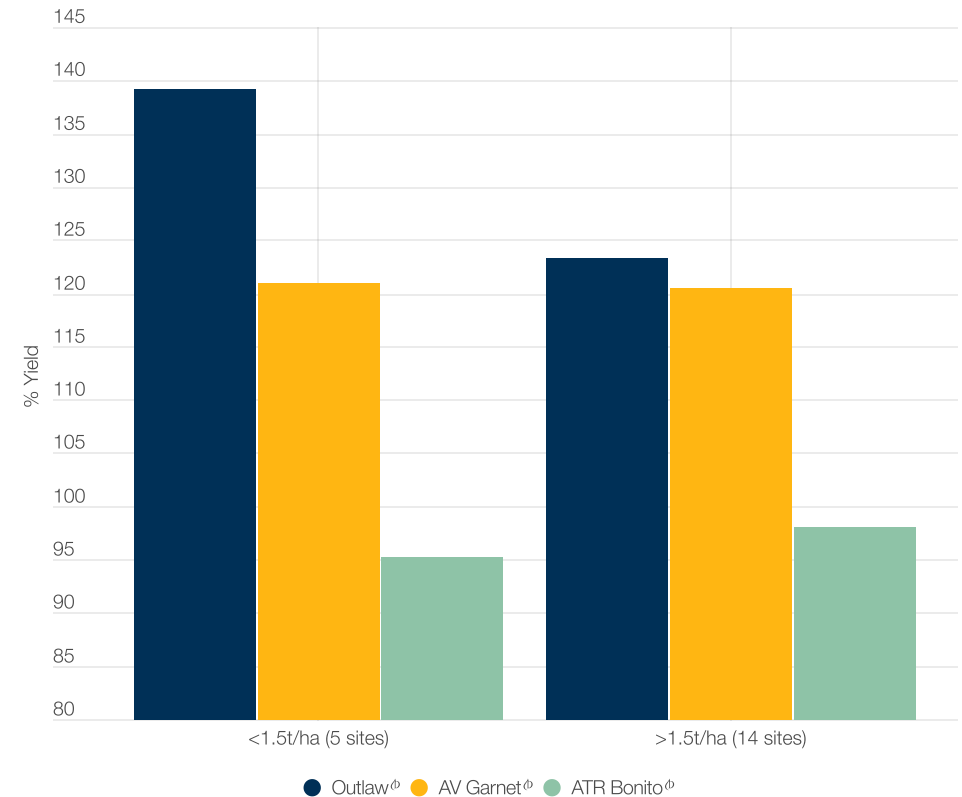
More information





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

Grain yield of Outlaw[®] versus comparator varieties



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

More information

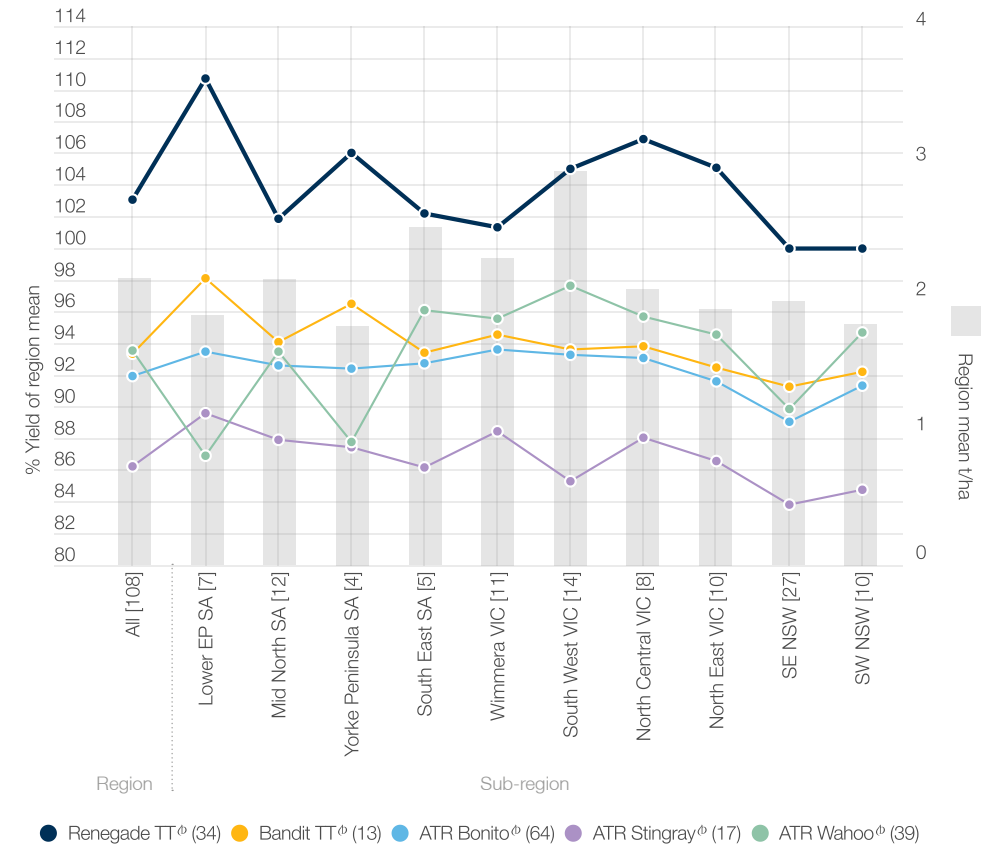




Renegade TT[Ⓟ]

- Triazine Tolerant, Open Pollinated
- Quick to flower, between HyTTec[®] Trident and HyTTec[®] Trophy, a little quicker than ATR Bonito[Ⓟ]
- Best performance under medium yield potential conditions with competitive profitability
- Oil content higher than ATR Stingray[Ⓟ], 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





Lupin

Agronomic attribute comparisons

	Coyote [®]	Lawler [®]	Mandelup [®]	PBA Bateman [®]
Metribuzin Tolerance	T	T	T	T
Split Seed	T	MI	MTMI	MTMI
Alkaloid Content	Very Low	Low	Low-Moderate	Low-Moderate
Plant Height	Short-Medium	Short	Medium-Tall	Short
Early Vigour	Good	Good	Very Good	Good
Lodging	MR	MS	MRMS	MRMS
Flower Colour	White-Dark Purple	White-Dark Purple	White-Purple	White-Purple
Seed Coat	Brown Speckle	Brown Speckle	Brown Speckle	Brown Speckle

Disease rating comparisons

	Coyote [®]	Lawler [®]	Mandelup [®]	PBA Bateman [®]
Anthracoze	MRMS	MR	MRMS	MRMS
Cucumber Mosaic Virus	MRMS	MR	MS	MR
Grey Spot	R	R	R	R
Pod <i>Phomopsis</i>	MRMS	MS	S	MS
Stem <i>Phomopsis</i>	S	MR	RMR	RMR

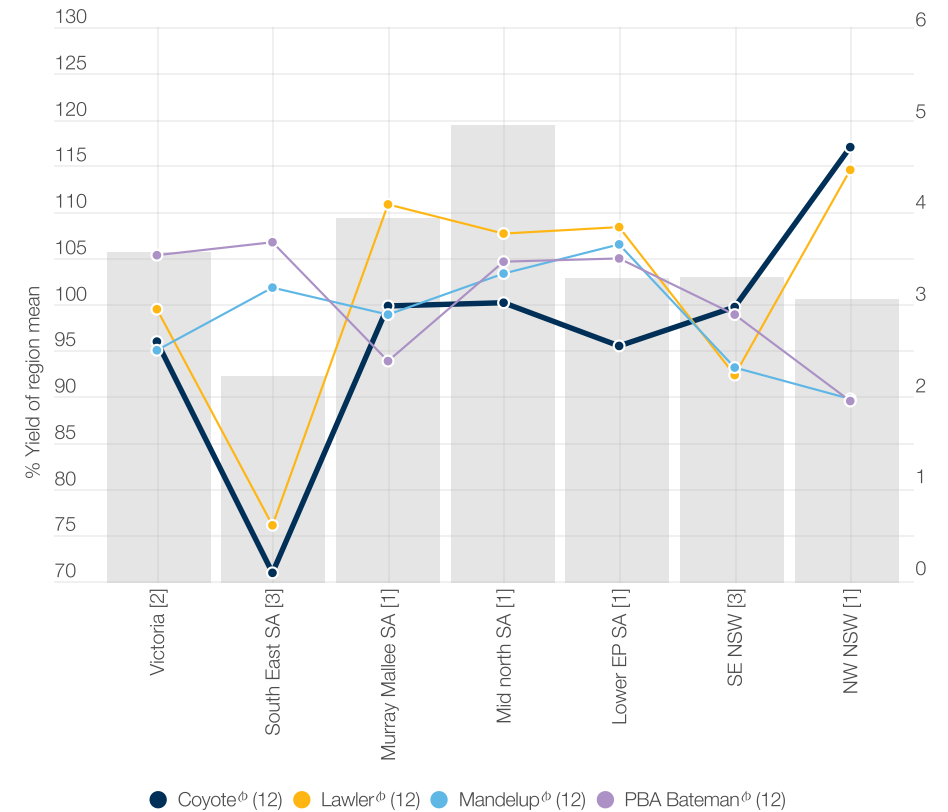
R Resistant
 MR Moderately Resistant
 MS Moderately Susceptible
 S Susceptible
 VS Very Susceptible
 T Tolerant
 MT Moderately Tolerant
 MI Moderately Intolerant
 I Intolerant
 VI Very Intolerant

Source: NVT consensus ratings 2022 and AGT



- Wide adaptation
- Metribuzin tolerant
- Reduced risk of seed splitting compared with some other varieties
- Susceptible to stem *Phomopsis*
- Slower to reach flowering relative to Mandelup^ϕ, slightly slower than PBA Bateman^ϕ

Grain yield across NSW, Vic & SA 2022



Source: NVT 2022 – NSW, Vic & SA trials

[] Total number of trials per region

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

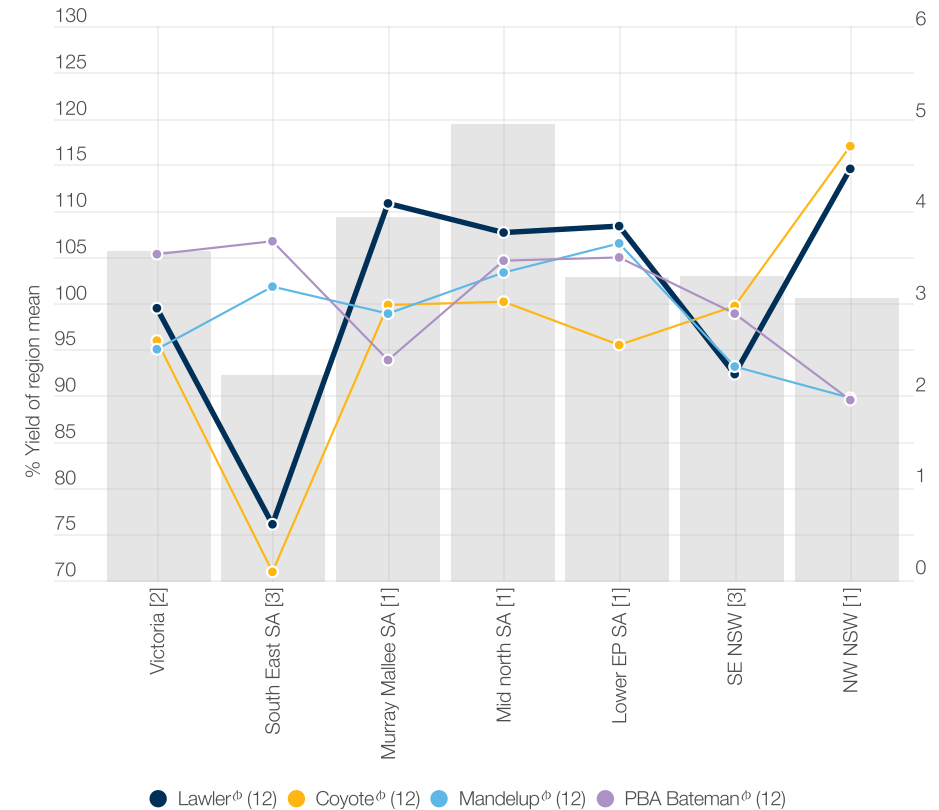
More information





- A high yielding alternative to Mandelup, Coyote[Ⓛ] and PBA Bateman[Ⓛ]
- Improved stem *Phomopsis* resistance over Coyote[Ⓛ]
- Widely adapted throughout Eastern Australian lupin growing regions
- Metribuzin tolerant
- Similar maturity compared with Mandelup[Ⓛ], around 4 days quicker to flower than Coyote[Ⓛ]

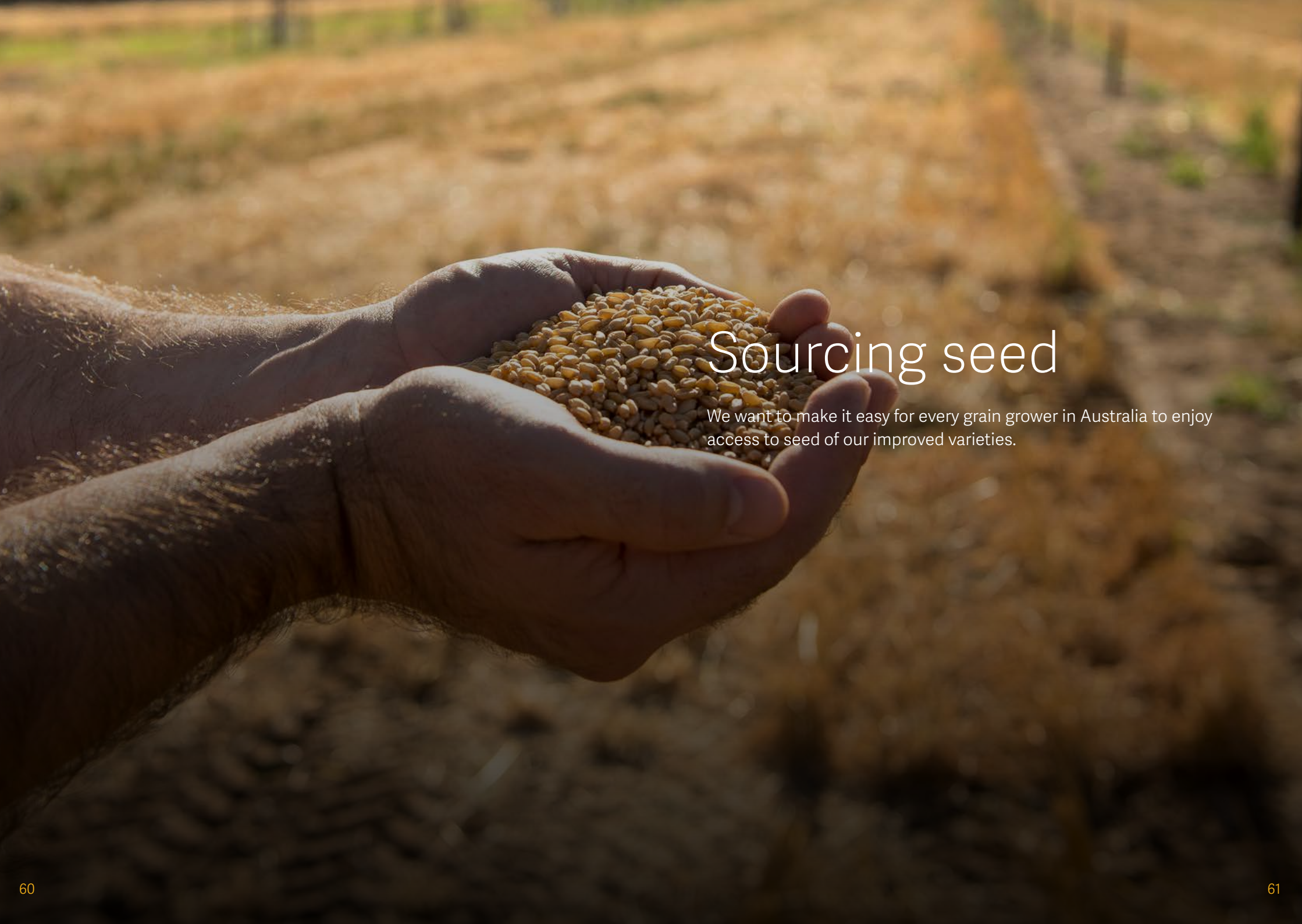
Grain yield across NSW, Vic & SA 2022



Source: NVT 2022 – NSW, Vic & SA trials
 [] Total number of trials per region
 () Number of trials that each variety was present in across the regions

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.

DLF Seeds

2-8 Tobias Street
Forbes NSW 2871

Anthony Quilter
P 1800 224 987
F 1800 221 827
M 0427 572 125
aquilter@dlfseeds.com.au
dlfseeds.com.au

Hart Bros Seeds

Coffin Rock Lane
Temora Road
Junee NSW 2663

Rob Hart
P 02 6924 7206
F 02 6924 7271
M 0427 247 260
office@hbseeds.com.au
hartbrosseeds.com.au

Baker Seed Co.

628 Springhurst Road
Rutherglen VIC 3685

Aaron Giason
P 02 6032 9484
F 02 6032 9043
M 0400 232 703
aaron.giason@bakerseedco.com.au
bakerseedco.com.au

AGT Seed Sharing™

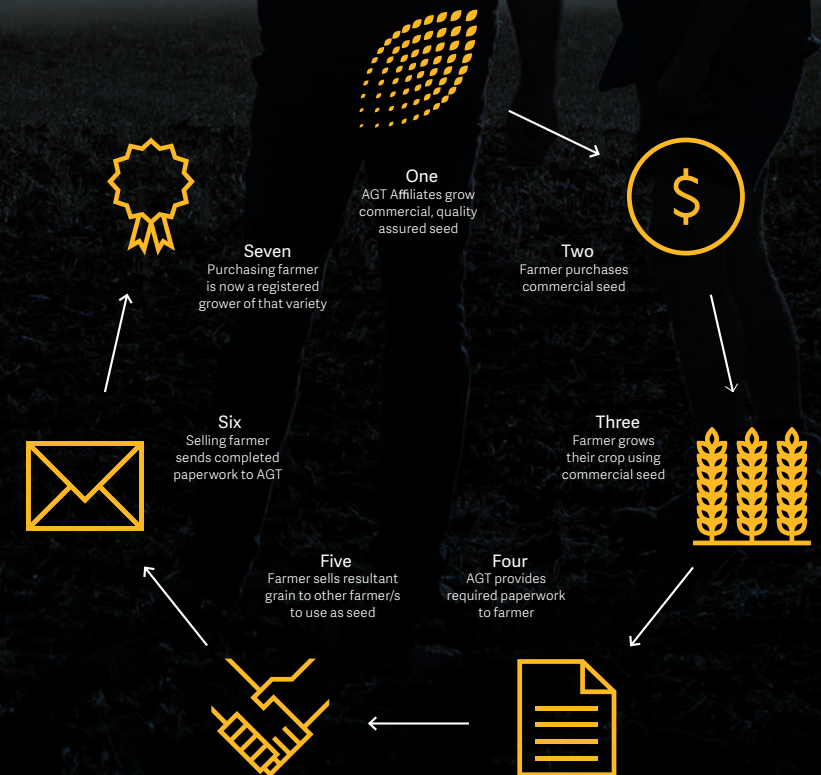
Seed Sharing™ is a low cost way of introducing our improved genetics into your program.


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





James Whiteley, Variety Support Manager, southern NSW: 0419 840 589
Russell Eastwood, Wheat Breeder 0427 716 632
Britt Kalmeier, Wheat Breeder 0408 442 005
Paul Telfer, Barley Breeder: 0418 805 297
Tom Kapcejevs, Durum Breeder: 0499 228 428
Matt Aubert, Lupin Breeder: 0408 137 922
Sami Ullah, Canola Breeder: 0469 569 665
End Point Royalty Office: (08) 7111 0201

agtbreeding.com.au

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