Constantly searching for better field crop varieties.

Our work at AGT is a search for the exemplary.

An intensive process of inter-crossing, field and laboratory experimentation, data collection and analysis, and genetic selection over many years culminates in the creation of each of our new field crop varieties. This exhaustive and innovative process leads to new varieties that greatly impact upon the profitability, sustainability and prosperity of grain growers all over the country.
Variety data
**Wheat Yield**  
NVT long term MET analysis 2014-2018  
Grain yield as % of region average

MET Multi Environment Trial, a comprehensive statistical analysis across sites and years used to predict the performance of varieties over a broad range of growing conditions.

* Yield based on one year of data.

<table>
<thead>
<tr>
<th></th>
<th>Lower Eyre Peninsula</th>
<th>Upper Eyre Peninsula</th>
<th>Mid North</th>
<th>Yorke Peninsula</th>
<th>Murray Mallee</th>
<th>South East</th>
<th>All SA</th>
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NVT National Variety Trials, a national program of comparative crop variety testing with standardised trial management, data generation and collection, funded by the Grains Research & Development Corporation (GRDC).
## Wheat

### Disease, agronomic and grain quality ratings

<table>
<thead>
<tr>
<th>Quality Classification</th>
<th>Stem Rust</th>
<th>Stripe Rust</th>
<th>Leaf Rust</th>
<th>Septoria Tritici/Blotch</th>
<th>CCN</th>
<th>Yellow Leaf Spot</th>
<th>Powdery Mildew</th>
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<td>Early and mid maturities</td>
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</table>

**Arrow**^a^  
AH S S SVS S MS MRMS SVS MRMS

**Chief CL Plus**^a^  
APW RMR S MR MS MS MRMS SVS MS

**Corack**^a^  
APW MR MS SVS S RMR MR SVS S

**Grenade CL Plus**^a^  
AH MR MRMS S S MR S MSS MSS

**Havoc**^a^  
AH S MR S MSS S MRMS S MS

**Kord CL Plus**^a^  
AH MR MRMS MS MS MR MSS MS MRMS

**Mace**^a^  
AH MRMS SVS MSS S MRMS MRMS MSS MRMS

**Razor CL Plus**^a^  
ASW MRMS MS S SVS MR MSS MSS MS

**Vixen**^a^  
AH MR MRMS SVS S MSS MRMS SVS MSS MSS

**Wyalkatchem**^a^  
APW MSS S S S S MR SVS MSS

**Mid and late maturities**

**Beckom**^a^  
AH MRMS MRMS MSS S R MSS MSS MRMS

**Catapult**^a^  
AH MR* MRMS* S* MSS* MR* MRMS* S* MSS*

**Cutlass**^a^  
APW R MS R MSS MR MSS MRMS SVS MS

**Scepter**^a^  
AH MRMS MSS MSS S MR MSS MRMS SVS MS

**Scout**^a^  
AH MRMS MS MS S R SVS MRMS S

**Sheriff CL Plus**^a^  
APW MS MSS SVS S MS MRMS SVS MRMS

**Trojan**^a^  
APW MRMS MR MR MS MS MSS S MRMS

**Yitpi**^a^  
AH S MRMS S MSS MSS MR SVS MSS

**Winters**

**EGA Wedgetail**^a^  
APW MRMS MS MSS MSS S MSS — MS

**Illabo**^a^  
AH MS RMR S MSS MSS MS MRMS MSS

**Kittyhawk**^a^  
AH MRMS-S RMR MS MRMS S MRMS MS MRMS

**Longsword**^a^  
FEED MR RMR MSS MSS MRMS MRMS MRMS

---

**R** Resistant  
**S** Susceptible  
**VS** Very Susceptible  
**VI** Very Intolerant  
**MR** Moderately Resistant  
**MS** Moderately Susceptible  

* Provisional ratings

Source / SARDI Cereal Variety Disease Guide 2019, NVT and AGT data

South Australia Variety Guide 2019 – 2020 agtbreeding.com.au
## Durum

Yield and disease resistance ratings
NVT long term MET analysis 2014-2018
Grain yield as % of region average

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield - Mid North (3.4t ave.)</th>
<th>Yield - Yorke Peninsula (3.9t ave.)</th>
<th>Quality Classification</th>
<th>Stem Rust</th>
<th>Stripe Rust</th>
<th>Leaf Rust</th>
<th>Septoria Tritici Brown</th>
<th>CCN</th>
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<th>Crown Rot</th>
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<td>RMR</td>
<td>R</td>
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<td>Bitalli**</td>
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<td>117</td>
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<td>MR*</td>
<td>RMR*</td>
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<td>MRMS</td>
<td>MS</td>
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</tbody>
</table>

* Yield based on one year of data

** Provisional ratings

| Source / SARDI Cereal Variety Disease Guide 2019, NVT and AGT data | agtbreeding.com.au | 08 |
Wheat varieties
Beckom is a high performing AH variety across southern Australia, particularly when used in an early to mid sowing window.

Beckom offers some planting date flexibility as it has moderate photoperiod and vernalisation requirements, allowing growers to plant Beckom confidently from the beginning through to the third week of May. Generally at a mid May planting at Roseworthy, Beckom flowers five days later compared to Mace.

Beckom has moderate grain size, however screenings losses may become an issue in seasons when grain fill is curtailed by a combination of heat shock and drought stress. Appropriate time of planting is therefore important. In 2015-2018 Beckom was included in both the early and main sown NVT’s, and screenings losses were noticeably lower in trials planted in the early sowing window. Both AGT and NVT data suggest that sowing Beckom at the end of April through to the second week of May will maximise potential yield while reducing the risk of downgrading due to screenings losses.

Short in height, Beckom produces plants with moderate early vigour and straw strength, but with good threshability.

- AH quality classification
- Mid-season maturity
- Very high and stable grain yield
- Acid soil (aluminium) tolerance
- Good resistance to stem and stripe rust
- Short conservative plant type

Tested as V06008-14

Breeding Young as the major parent, Annuello and Stylet as minor parents

Released Spring 2015

EPR $3.25 + GST/tonne

Seed Availability AGT Affiliates, Retailers, Seed Sharing™
Sometimes in breeding, you get unexpected but very exciting results. Out of a standard Mace™ cross, Catapult™ (tested as RAC2484) has emerged as an exceptionally unique combination of features that we believe will help growers increase productivity, while providing flexibility that has not been available previously.

Growers are continually looking for earlier sowing options that don’t compromise on yield, to compliment high yielding main season varieties like Scepter™ so that an increase in over-all farm yield is achieved. Catapult™ may be viewed as a ‘longer season’ Scepter™, allowing growers to achieve Scepter™-like yields when sown in late April. When sown around ANZAC day, Catapult™ has consistently out-yielded Trojan™, Cutlass™ and Yitpi™ (and other varieties used in this sowing window). This very high yield potential relative to other varieties has been recorded across a large range of growing conditions and environments, highlighting Catapult’s™ very wide suitability for most cropping programs.

These days, much of the wheat crop is planted dry. In many instances germination of dry sown crops may be delayed considerably if the arrival of the break in the season is unknown, and therefore variety choice for these situations is very important. A variety like Catapult™ is a great choice for dry sowing because it maintains its high yield over a wide range of germination dates, including well into May where it remains competitive with the benchmark variety Scepter™.

Catapult™ is also one of the best choices for use in wheat on wheat rotations. Apart from Catapult™, there are no other wheat varieties that combine this maturity type with CCN resistance, yellow leaf spot resistance and AH quality. It’s this unique combination that supports Catapult’s™ use as a second wheat in a rotation, a practice very common in low rainfall or Mallee type environments.

Catapult™ is very closely related to Scepter™ and shares its physical grain quality characteristics of high test weight, low screenings and AH quality classification.

The highest yielding choice for late April sowing
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
Excellent choice for wheat on wheat situations
Very good physical grain characteristics with an AH quality classification
A great alternative to Trojan™, Cutlass™ and Yitpi™

Tested as RAC2484
Breeding Mace™ x Corack™
Released Spring 2019
EPR $3.25 + GST/tonne
Seed Availability AGT Affiliates, Retailers
Modern farming systems call for a suite of varieties with a range of maturities in order to make use of suitable sowing conditions and to maximise yield. Growers should consider Cutlass® when a mid to late April sowing opportunity presents itself, or when a later maturing variety may be needed to reduce risk of frost damage.

Yitpi® has been a favourite for over 15 years, but is now out-classed for yield. Estoc® fits the maturity target, but is still substantially out-classed by Scepter®. Trojan® is competitive for yield, but is not a true Yitpi® maturity type.

We believe that Cutlass® is an excellent choice for late April sowing. Cutlass® is similar to Yitpi®; uses strong photoperiod sensitivity to maintain sowing date flexibility. In most areas, like Yitpi®, Cutlass® should suit a sowing window from late April to mid May.

Importantly, Cutlass® is substantially higher yielding. From 2014 to 2018 in SA, Cutlass® out performed Yitpi® by 7%. We believe that this yield, combined with better leaf rust, stem rust and yellow leaf spot resistance should make Cutlass® a clear choice when picking a wheat for earlier sowing or frost avoidance. Cutlass® is APW, but when its superior yield is considered, it is a better value option than either Estoc® or Yitpi®.

Tested as RAC2484
Breeding Fang® (a Spear type) as the major parent, Carnamah and Stylet as minor parents
Released Spring 2015
EPR $3.00 + GST/tonne
Seed Availability AGT Affiliates, Retailers, Seed Sharing™
Illabo

» Dual purpose winter wheat for grazing and grain production
» The highest yielding EGA Wedgetail\(^{\text{(b)}}\) alternative available
» AH quality classification
» Mid winter maturity, 2-3 days quicker than EGA Wedgetail\(^{\text{(b)}}\)
» Excellent resistance to stripe rust

Mixed farming has traditionally had a strong presence in parts of SA. The mixture of cropping and livestock has benefited farmers, helping to improve profits while also assisting in risk management. Dual purpose wheats offer many benefits to farmers in a mixed enterprise, and EGA Wedgetail\(^{\text{(b)}}\) has been the variety of choice for many seasons now.

Illabo\(^{\text{(b)}}\) is the first variety to be released from our dedicated winter wheat breeding program at Wagga Wagga, and has been bred with the intent of offering growers an improved version of EGA Wedgetail\(^{\text{(b)}}\). The main improvement that Illabo\(^{\text{(b)}}\) offers over EGA Wedgetail\(^{\text{(b)}}\) is yield. Illabo\(^{\text{(b)}}\) also offers an improved disease resistance package over EGA Wedgetail\(^{\text{(b)}}\), with better stripe rust and black point resistance.

Like its parent EGA Wedgetail\(^{\text{(b)}}\), Illabo\(^{\text{(b)}}\) requires a period of cold temperatures (vernalisation) before moving from vegetative to reproductive growth, and this maturity trigger allows Illabo to be sown early in the cropping program with the aim of producing increased dry matter to fill early feed gaps.

To maximise grain only yield, Illabo\(^{\text{(b)}}\) appears ideally suited to mid-late April sowing in high yield environments, and mid-April planting in low yield environments.

Tested as V09150-01
Breeding EGA Wedgetail\(^{\text{(b)}}\) as the major parent
Released Spring 2018
EPR $3.50 + GST/tonne
Seed Availability AGT Affiliates, Retailers, Seed Sharing™
The first of its kind, Longsword® is a ‘quick finishing’ winter wheat, quicker than EGA Wedgetail® and Illabo®. Unlike other long season varieties, Longsword® has Mace® as its major parent, a variety that is specifically suited to low and medium rainfall areas. But unlike Mace® (a traditional spring wheat), Longsword® has three winter genes, meaning that it is a true winter variety with a stronger vernalisation (cold) requirement before flowering can occur. However, once this requirement is met, Longsword® progresses through grain-fill quite quickly, similar to its parent Mace®.

This unique maturity offers many advantages to growers: it allows a flexible and wide sowing window, while helping to avoid stresses of drought and heat through grain fill that slower maturing winter wheat varieties experience. It also allows a longer safe period for grazing, helping to alleviate the feed-gap often faced by mixed farmers.

Grain of Longsword® is only deliverable as FEED into the bulk handling system. Although we are committed to releasing high performing milling grade wheat varieties, we believe Longswords® uniqueness still offers value to growers who are looking to sow earlier than what spring wheats allow, for those requiring grazing value out of their variety, or those that have access to a grain market outside of the traditional bulk handling system.

Tested as RAC2341
Breeding Mace® as the major parent with a Merinda® type as the minor parent
Released Spring 2017
EPR $2.75 + GST/tonne
Seed Availability AGT Affiliates, Retailers, Seed Sharing™
In 2010 Mace was released to SA growers presenting a big step forward in performance and profitability to other main season varieties. Higher yield, AH quality and better CCN resistance saw it grow in popularity, being widely grown from WA through to southern NSW. Scepter builds on the success of Mace and has now become the most widely grown wheat variety in SA.

We see Scepter as the successor to Mace. With Mace as its major parent, Scepter looks and behaves very similar to Mace, so will likely fit into the same position in your rotation. Scepter has the added benefit of improved stripe rust resistance, and is about two days later to flower. You will still need to keep an eye out for stripe rust infection in Scepter, but hopefully the improvement is enough to help in reducing reliance on fungicides.

Tested as RAC2182

Breeding Mace as the major parent, a Kukri / Janz / Wyalkatchem breeding line as the minor parent

Released Spring 2015

EPR $3.25 + GST/tonne

Seed Availability AGT Affiliates, Retailers, Seed Sharing™

The leading wheat variety in SA

Elite yielding, with improved yield over Mace

AH quality classification

Mid season maturity, slightly later than Mace

Good physical grain quality package

CCN and yellow leaf spot resistance equal to Mace

Improved stripe rust resistance over Mace

Scepter

South Australia Variety Guide 2019 – 2020

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‘CL Plus’ wheat varieties have been specifically developed to carry two genes for tolerance to Clearfield® Intervix® herbicide. Intervix® is a member of the imidazolinone chemical family with Group B mode of action, offering one-pass post-emergent knockdown and residual control of many major grass and broadleaf weeds including brome grass, barley grass, wild oat, Indian hedge mustard, muskweed, wild radish, wild turnip, and suppression of annual ryegrass.
The Clearfield® production system involving cereal varieties that are tolerant to Intervix® herbicide continues to play an integral part of in-crop weed management throughout SA. However, until now, there has been a significant yield gap between the best Clearfield® varieties (Kord CL Plus®, Grenade CL Plus®), and the best non-Clearfield® varieties (Mace®, Scepter®).

Razor CL Plus® addresses this issue, offering yields competitive with Mace® and Scepter®, along with tolerance to Intervix® herbicide.

We believe that Razor CL Plus® offers the best overall package of yield, adaptation and disease resistance out of all of the currently available Clearfield® varieties. Razor CL Plus® has an ASW quality classification, and therefore growers will have to determine whether the yield advantage that Razor CL Plus® offers over other Clearfields® generates additional income in their unique situation. Does the yield advantage of Razor CL Plus® outweigh the potential price split between ASW and higher grades? How often do you achieve higher quality grades on your farm? Are you intending to grow a Clearfield® variety on a paddock that is set up to achieve higher protein grades, or are you using these varieties on poorer, problem paddocks? Answering these questions may help you decide if a high yielding, ASW, Clearfield® wheat variety has a fit in your program.

Tested as RAC2517
Breeding Mace® and a 2-gene Clearfield® tolerant donor
Released Autumn 2018
EPR $3.30+ GST/tonne
Seed Availability AGT Affiliates, Retailers

Razor CL Plus®

- The highest yielding Clearfield® wheat variety currently available
- Derived from widely adapted variety Mace®
- Tolerant to Clearfield® Intervix® herbicide
- Early maturity, slightly quicker than Mace®, similar to Corack®
- Good physical grain package, with low screenings and high test weight
- Good CCN resistance
- ASW quality classification
Durum
Bitalli is one of our first durum variety releases in over ten years, and we believe that it has been worth the wait.

Bitalli represents our breeding aim of producing a ‘low risk’ durum variety, combining adaptation to a range of environments and growing conditions, excellent grain quality with low screenings risk and high test weights, and improved levels of straw strength. Most importantly however, Bitalli has achieved our goal of developing a durum variety that sets a new yield benchmark across all Southern Australian durum growing environments.

Bitalli is derived from a Saintly cross, maturing 1-2 days later than Saintly, and a few days earlier than Aurora. Unlike Saintly, Bitalli is a fully awned variety.

The disease profile of Bitalli is comparable with most durum varieties currently on the market, with good resistance to most foliar diseases. Provisional pathology data suggests that Bitalli may offer a slight improvement in crown rot resistance over other varieties. As crown rot is a major constraint on durum production, even a small improvement in this trait is likely to benefit growers.

Bitalli has an ADR quality classification in the Southern Zone (SA/Vic) and produces grain with low screenings similar to Aurora and Saintly, and substantially better than Hyperno.

The naming convention we use for our durum varieties is Melbourne Cup winners, with ‘Bitalli’ taking the cup in 1923.

Tested as AGTD088
Breeding Saintly as the major parent
Released Spring 2019
EPR $3.50 + GST/tonne
Seed Availability AGT Affiliates, Retailers
Westcourt

- High yielding across the Southern durum growing region
- ADR quality classification
- Mid-season maturity, similar to Caparoi
- Very good physical grain characteristics with low screenings
- Excellent disease resistance package

Westcourt is our first durum variety released primarily for the Northern durum growing region, however should still offer Southern durum growers value as a high yielding, widely adapted variety with a robust disease resistance package and excellent grain quality.

Westcourt offers yields that are competitive with leading variety Aurora across the Southern Zone, although slightly lower than newly released variety Bitalli.

Compared to Bitalli, Westcourt is later maturing, and will therefore likely suit planting dates towards the front of your durum program.

The naming convention we use for our durum varieties is Melbourne Cup winners, with ‘Westcourt’ winning the famous race in 1917.

Tested as AGTD090
Breeding Combination of unreleased breeding lines
Released Spring 2019
EPR $3.50 + GST/tonne
Seed Availability AGT Affiliates, Retailers, Seed Sharing™
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 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.

<table>
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<tr>
<th><strong>Booleroo Centre Seeds</strong></th>
<th><strong>Modra Seeds</strong></th>
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<tr>
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<td>141 Mount Hill Rd</td>
</tr>
<tr>
<td>Booleroo Centre SA 5482</td>
<td>Ungarra SA 5607</td>
</tr>
<tr>
<td>Neil Innes</td>
<td>Justin Modra</td>
</tr>
<tr>
<td>P  08 8667 2286</td>
<td>P  08 8688 8094</td>
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<tr>
<td>M  0428 672 286</td>
<td>M  0428 868 063</td>
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<tr>
<td><a href="mailto:boolseeds@bigpond.com">boolseeds@bigpond.com</a></td>
<td><a href="mailto:info@modraseeds.com.au">info@modraseeds.com.au</a></td>
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<th><strong>RH Verner &amp; Co.</strong></th>
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<td>‘Akeninga’, Korunye via</td>
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<tr>
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<td>M  0418 859 544</td>
<td>M  0429 202 182</td>
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<tr>
<td><a href="mailto:lcschulz@internode.on.net">lcschulz@internode.on.net</a></td>
<td><a href="mailto:richard@rhverner.com.au">richard@rhverner.com.au</a></td>
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<th><strong>Tatiara Seeds</strong></th>
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<td>Callington SA 5254</td>
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<td>Brett Wegener</td>
<td>Brett Smedley</td>
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<tr>
<td>F  08 8538 5333</td>
<td>P  08 8752 0024</td>
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<td>M  0417 847 051</td>
<td>F  08 8752 2589</td>
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<tr>
<td><a href="mailto:colraeseeds@bigpond.com">colraeseeds@bigpond.com</a></td>
<td><a href="mailto:seedsales@tattiaraseeds.com.au">seedsales@tattiaraseeds.com.au</a></td>
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</tbody>
</table>

www.modraseeds.com.au
www.tatiaraseeds.com.au

An initiative first developed by AGT, 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, triticale and durum varieties except Clearfield® Plus wheat 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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0427 055 659
Adam Norman, Wheat Breeder
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End Point Royalty Office
(08) 7111 0201
agtbreeding.com.au

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