2019 — 2020
Northern NSW/QLD
Variety Guide
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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.

Varieties displaying the ® symbol are protected by Plant Breeders Rights (PBR) and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. Growers of PBR protected varieties will be subject to a Growers License Agreement that acknowledges that an EPR has to be paid on all production other than seed saved for planting.
Variety data
**Wheat Yield**

**NVT long term MET analysis 2014-2018**

Grain yield as % of region average

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**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

**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).
# Disease, agronomic and grain quality ratings

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<th>Black Point</th>
<th>Acid Solids</th>
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**Notes:**
- **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
- * Provisional ratings

Source / NVT and AGT data
### Durum Yield

**NVT long term MET analysis 2014-2018**

Grain yield as % of region average

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**Trial mean (t/ha)**

- South East QLD: 3.7
- South West QLD: 3.0
- North East QLD: 3.6
- North West QLD: 2.7

* Yield based on one year of data

### Durum

**Disease, agronomic and grain quality ratings**

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<th>Crown Rot Resistance</th>
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<td>RMR*</td>
<td>RMR*</td>
<td>RMR*</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

R | Resistant  
MR | Moderately Resistant  
MS | Moderately Susceptible  
S | Susceptible  
T | Tolerant  
MI | Moderately Intolerant  
VI | Very Intolerant  
* Provisional ratings

Source: NVT and AGT data
Wheat varieties
Coolah

- APH quality classification
- Suited to end of April – beginning of May plantings
- Alternative to EGA Gregory, Flanker and DS Faraday
- Highly competitive grain yield and broad adaptation
- Excellent stem, stripe and leaf rust resistance
- Good tolerance to acid soils
- Improved lodging tolerance over EGA Gregory

Early sown NVT MET data from the northern region has established that Coolah is the highest yielding ‘EGA Gregory’ type in the late-April early-May planting window (Coolah 111%, Flanker 110%, EGA Gregory and DS Faraday 105% and Lancer 104%). It is well adapted to the northern region and backs up this adaptation with a solid disease package of resistance to each of the rusts and intermediate resistance to yellow leaf spot.

With tolerance to acid soils, Coolah has performed well across acidic, neutral and alkaline soils. Coolah is also slightly shorter in stature than EGA Gregory, resulting in a lower susceptibility to lodging.

Coolah’s maturity is driven by moderate photoperiod and vernalisation requirements, and matches EGA Gregory in most environments. Sown at the end of April into early May, Coolah will maximise early moisture availability whilst still avoiding frost risk in late August.

<table>
<thead>
<tr>
<th>Tested as</th>
<th>V07176-69</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breeding</td>
<td>EGA Gregory as the major parent and an AGT breeding line as the minor parent</td>
</tr>
<tr>
<td>Released</td>
<td>Spring 2016</td>
</tr>
<tr>
<td>EPR</td>
<td>$3.50 + GST/tonne</td>
</tr>
<tr>
<td>Seed Availability</td>
<td>AGT Affiliates, Retailers, Seed Sharing™</td>
</tr>
</tbody>
</table>
Dual purpose winter wheat for grazing and grain production

The highest yielding EGA Wedgetail alternative available

Mid-fast winter maturity, 2-3 days quicker than EGA Wedgetail

Excellent resistance to stripe rust and black point

Acid soil (aluminium) tolerance

AH quality classification in the Northern Zone

Mixed farming has traditionally had a strong presence in NSW. The mixture of cropping and livestock have 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 has been the variety of choice for many seasons now.

Illabo 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. The main improvement that Illabo offers over EGA Wedgetail is yield. In long term NVT long season trials across north eastern NSW, Illabo has outperformed EGA Wedgetail by 12% and another EGA Wedgetail alternative, Kittyhawk by 6%.

Illabo also offers an improved disease resistance package over EGA Wedgetail, with better stripe rust and black point resistance. Like its parent EGA Wedgetail, Illabo 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. Grazing trial data collected from AGT’s Kabinga Research farm at Collingullie showed that during the period from emergence to the appearance of the first node, Illabo produced equivalent amounts of dry matter to that of EGA Wedgetail and produced an extra 18-26% over Kittyhawk, depending on sowing date.

To maximise grain only yield, Illabo appears ideally suited to mid-late April sowing in high yield environments, and mid-April planting in low yield environments.

<table>
<thead>
<tr>
<th>Tested as</th>
<th>V09150-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breeding</td>
<td>EGA Wedgetail as the major parent</td>
</tr>
<tr>
<td>Released</td>
<td>Spring 2018</td>
</tr>
<tr>
<td>EPR</td>
<td>$3.50 + GST/tonne</td>
</tr>
</tbody>
</table>
Mitch

» AH quality classification
» Mid-late season maturity, suits late April to early May planting
» One of the best levels of resistance to crown rot available for this planting window
» Very high yielding in this planting window
» Moderately resistant to black point
» Good straw strength, suitable for irrigation

Crown rot, yellow leaf spot and lodging from weak straw strength have been major issues plaguing northern wheat growers for the last decade. With farm rotations tightening, having a variety that exhibits some crown rot tolerance along with acceptable yellow leaf spot resistance is highly sought after in the northern region.

Mitch is a variety that tick these boxes and also delivers high yields in the Northern Zone. In both NVT and AGT trials, Mitch has on average out yielded the benchmark variety EGA Gregory in these environments, as well as offering a superior disease package and improved straw strength.

One of the major strengths of Mitch is its crown rot tolerance. In many DPI and CAS crown rot trials Mitch expressed yield on average 10-15% higher than intolerant varieties EGA Gregory and Flanker.

With good straw strength and top end yield, Mitch also lends itself to high yielding situations such as irrigated production systems.

Mitch will offer growers a flexible sowing window in most regions, with its maturity suited to a late April through to 20th May planting.

Tested as QT14381
Breeding Giles and an unreleased breeders line
Released Spring 2014
EPR $3.25 + GST/tonne
Seed Availability AGT Affiliates, Retailers, Seed Sharing™
Since its release, Suntop\textsuperscript{a} has become one of the dominant wheat varieties for main season planting in the Northern region due to a combination of high and consistent yield, wide adaptation, and tolerance to sodic soils. However, grower experience has shown that in drier/sharper finishes to the season, Suntop\textsuperscript{a} can express higher than acceptable levels of screenings. One of our major breeding objectives has been to improve Suntop\textsuperscript{a}’s grain size and disease resistance package whilst retaining its very wide adaptation, yield and agronomic suitability for the Northern growing region. We believe that we have realised that goal with Sunchaser\textsuperscript{b}.

Sunchaser\textsuperscript{b} may be viewed as a ‘safer Suntop\textsuperscript{a}’, offering not only a yield improvement but most importantly a much lower risk of screenings. Elevated levels of screenings is a major factor contributing to downgrades at point of sale. Therefore this feature of Sunchaser\textsuperscript{b} has the potential to improve grower’s profitability over Suntop\textsuperscript{a}; among other varieties.

As a Reliant\textsuperscript{a} alternative, Sunchaser\textsuperscript{b} has produced similar yields (particularly in northern NSW), improved grain size and a longer coleoptile. Compared to Spitfire\textsuperscript{a}, Sunchaser\textsuperscript{b} has demonstrated much higher grain yield, and also with lower risk of screenings and a longer coleoptile.

Sunchaser\textsuperscript{b} fits the main season sowing window in Northern growing regions, with a maturity slightly quicker than Suntop\textsuperscript{a} and Reliant\textsuperscript{a}, and a little slower than Spitfire\textsuperscript{a}.

\begin{tabular}{|l|l|}
\hline
Tested as & SUN843E \\
\hline
Breeding & A Ventura\textsuperscript{a} sibling as the major parent and an unreleased breeding line as the minor parent \\
\hline
Released & Spring 2019 \\
\hline
EPR & $3.50 + GST/tonne \\
\hline
Seed Availability & AGT Affiliates, Retailers, Seed Sharing\textsuperscript{TM} \\
\hline
\end{tabular}
Sunlamb is an awnless, long season spring wheat, differing from most other dual purpose varieties currently used like EGA Wedgetail, Naparoo and Marombi, which are winter wheats (cold/vernalisation responsive). Sunlamb's slow maturity is achieved through a unique combination of photoperiod sensitivity and cold responsiveness. When sown in its optimum planting window (early to mid-April), Sunlamb has generally flowered at much the same time as EGA Wedgetail, and a few days earlier than Naparoo.

The slow maturity of Sunlamb suits dual purpose grazing and grain production systems throughout central and southern NSW. Sunlamb produces similar total dry matter to Naparoo, whilst achieving similar grain recovery after grazing to EGA Wedgetail. When grazing any wheat variety, care needs to be taken to ensure that stock are withdrawn from the crop before GS31 (first node) so that the developing heads are not damaged.

Tested as SUN521C
Breeding Sunlin and a CIMMYT breeding line
Released Spring 2015
EPR $2.75 + GST/tonne
Seed Availability AGT Affiliates, Retailers, Seed Sharing™
With an APH classification and slow maturity, Sunmax is one of the best planting options when there is an early break in the season. Choosing to grow Sunmax will help utilise early soil moisture, avoid frost damage later in the season, and lift overall farm yields and profit in northern NSW and southern Queensland.

Sunmax is a long season spring wheat, slower in maturity than Sunbri and Sunzell but slightly quicker than Sunbrook. When planted in mid to late April it has yielded significantly higher than similar maturing varieties in northern NSW NVT and AGT trials.

It has an excellent level of stripe rust resistance based on major genes and multiple minor APR genes. It also has useful levels of tolerance and resistance to other major diseases including crown rot and root lesion nematodes (P. thornei).

Being a long season variety, it is critical that Sunmax is sown in the mid to late April planting window to minimise screening risk associated with terminal drought stress.

<table>
<thead>
<tr>
<th>Tested as</th>
<th>SUN714B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breeding</td>
<td>Sunzell as the major parent, an unreleased breeders line as the minor parent</td>
</tr>
<tr>
<td>Released</td>
<td>Spring 2016</td>
</tr>
<tr>
<td>EPR</td>
<td>$3.50 + GST/tonne</td>
</tr>
<tr>
<td>Seed Availability</td>
<td>AGT Affiliates, Retailers, Seed Sharing™</td>
</tr>
</tbody>
</table>
Sunprime® is a relatively fast maturing APH spring wheat that gives growers the opportunity to plant later in the main season sowing window. Late planting circumstances aren’t always ideal and consequently having a variety that can consistently achieve high yields and maintain good grain quality when sown late is of great benefit.

We view Sunprime® as a great alternative to popular variety Spitfire®. Long term NVT yield data predicts that Sunprime® may outperform Spitfire® by 7% across northern NSW/Queensland, while also displaying broad adaption across a range of conditions.

The early maturity of Sunprime® means it is very well suited to short season environments or where sowing is delayed, and where increased risk of heat stress and below average spring rainfall may limit the yield potential of slower maturing varieties. We believe that growers will have most success out of Sunprime® when it is planted from mid-May onwards.

Sunprime® has demonstrated an ability to handle tough finishes to the growing season by maintaining yield potential and grain quality. Sunprime® produces large and consistent grain size, experiences minimal screenings losses and has the ability to achieve relatively high protein across a range of environments.

In tough years soil borne diseases such as crown rot and RLN can be exacerbated resulting in increased yield loss. Sunprime® exhibits excellent tolerance to RLN (P.thornei) and good levels of resistance to crown rot which help in minimising yield loss from these constraints.

<table>
<thead>
<tr>
<th>Tested as</th>
<th>SUN803U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breeding</td>
<td>EGA Gregory® as the major parent, an unreleased breeders line as the minor parent</td>
</tr>
<tr>
<td>Released</td>
<td>Spring 2018</td>
</tr>
<tr>
<td>EPR</td>
<td>$3.50 + GST/tonne</td>
</tr>
<tr>
<td>Seed Availability</td>
<td>AGT Affiliates, Retailers</td>
</tr>
</tbody>
</table>
'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.
Elmore CL Plus® is the highest yielding Clearfield® tolerant wheat variety in northern NSW, and may fit into farming systems either for in-crop broad spectrum weed control or as a tool for the management of group B (Imi) herbicide residues.

Elmore CL Plus® offers a mid-season planting opportunity, with best performance expected from sowing from the second to the fourth week of May. In this sowing window Elmore CL Plus® will reach heading 2 days later than Suntop® on average.

Elmore CL Plus® has moderate grain size and screenings losses which can be minimised by sowing in the appropriate planting window to avoid excessive heat shock and drought stress. Elmore CL Plus® offers a similar plant height as Suntop®, moderate early vigour, good straw strength, good threshability, and high test weights.

**AH quality classification**

*Mid-season maturity, slightly longer than Suntop®*

*Tolerant to Clearfield® Intervix® herbicide*

*Used for in-crop weed control or as a plant back option following Imi herbicides*

*Well adapted to medium rainfall environments*

*Good resistance to leaf, stem and stripe rust*

<table>
<thead>
<tr>
<th>Tested as</th>
<th>VX4338R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breeding</td>
<td>Annello and a 2-gene Clearfield® tolerant donor</td>
</tr>
<tr>
<td>Released</td>
<td>Spring 2012</td>
</tr>
<tr>
<td>EPR</td>
<td>$3.55 + GST/tonne</td>
</tr>
<tr>
<td>Seed Availability</td>
<td>AGT Affiliates, Retailers</td>
</tr>
</tbody>
</table>
Durum
Westcourt is our first durum variety specifically bred to perform in the Northern durum growing region. Since relocating our durum breeding headquarters to Narrabri, our aim has been to develop durum varieties that offer significant yield advantages over commonly grown varieties while maintaining the high levels of disease resistance and grain quality that the Northern region is known for.

We believe that Westcourt has achieved these aims, offering a dominant package of yield, disease resistance and grain quality. Across northern NSW and southern QLD trials, Westcourt has consistently out-yielded leading durum variety Lillaroi, setting a new yield benchmark for durum varieties adapted for the Northern region. Westcourt also offers similar grain size and disease resistance package as Lillaroi.

Westcourt is a mid season maturing variety and will 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.

- Very high yield in the Northern region, outperforming leading variety Lillaroi
- ADR quality classification
- Mid-season maturity, similar to Caparoi
- Very good physical grain characteristics with low screenings
- Excellent disease resistance package

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.

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M 0438 429 163
sales@woodsgrain.com.au
www.woodsgroup.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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